



BASF CORPORATION
McINTOSH, ALABAMA

**HAZARDOUS WASTE COMBUSTOR
NATIONAL EMISSION STANDARDS FOR
HAZARDOUS AIR POLLUTANTS**

**INFORMATION COLLECTION REQUEST
TEST REPORT
FOR BOILER No. 7**

SEPTEMBER 2024

Coterie ENVIRONMENTAL

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TABLE OF CONTENTS

1.0	Introduction	1-1
1.1	Facility Overview	1-1
1.2	Hazardous Waste Combustor Overview	1-2
1.3	Test Overview	1-2
1.4	Test Report Organization	1-3
2.0	Operating Conditions	2-1
2.1	Combustion Chamber Temperature	2-1
2.2	Stack Gas Flow Rate	2-1
2.3	Steam Production Rate	2-1
2.4	Total Hazardous Waste Feed Rate	2-1
2.5	Natural Gas Feed Rate	2-1
2.6	Storage Tank Vent Gas Feed Rate	2-2
2.7	Atomizing Fluid Differential Pressure	2-2
2.8	Test Log	2-2
2.9	Operating Data Summary	2-2
3.0	Sampling Procedures	3-1
3.1	Waste Liquid Fuel Sampling	3-1
3.2	Storage Tank Vent Gas Sampling	3-1
3.3	Natural Gas Sampling	3-1
3.4	Stack Gas Sampling	3-1
3.4.1	Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls	3-2
3.4.2	Hydrocarbons	3-2
3.4.3	Hydrogen Cyanide	3-3
3.4.4	Carbon Monoxide and Oxygen	3-3
3.5	Sampling Quality Assurance and Quality Control	3-4
3.6	Sampling Data Summary	3-4
4.0	Analytical Procedures	4-1
4.1	Waste Liquid Fuel Analyses	4-1
4.2	Storage Tank Vent Gas Analyses	4-1
4.3	Natural Gas Analyses	4-1
4.4	Stack Gas Analyses	4-1
4.5	Analytical Quality Assurance and Quality Control	4-1
5.0	Feedstream Results	5-1
5.1	Waste Liquid Fuel	5-1
5.2	Storage Tank Vent Gas	5-1
5.3	Natural Gas	5-1
6.0	Stack Gas Results	6-1
6.1	Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls Emission Results	6-1

6.2	Hydrocarbons Emission Results	6-1
6.3	Hydrogen Cyanide Emission Results	6-1
6.4	Carbon Monoxide	6-1
6.5	Stack Gas Results Summary	6-2

LIST OF TABLES

Table 2-1	Operating Conditions	2-3
Table 3-1	Stack Gas Sampling	3-2
Table 3-2	USEPA Method 23 Sampling Train Operating Data	3-5
Table 3-3	USEPA Method 25A Sampling Data	3-6
Table 3-4	USEPA Method 320 Sampling Data.....	3-6
Table 4-1	Summary of Quality Assurance/Quality Control Liquid Waste Samples – Higher Heating Value	4-2
Table 4-2	Summary of Quality Assurance/Quality Control Stack Gas – Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls	4-3
Table 4-3	Summary of Quality Assurance/Quality Control Stack Gas – Hydrocarbons.....	4-4
Table 4-4	Summary of Quality Assurance/Quality Control Stack Gas – Hydrogen Cyanide.....	4-5
Table 4-5	Summary of Analytical Deviations	4-5
Table 5-1	Waste Liquid Fuel.....	5-1
Table 6-1	Polycyclic Aromatic Hydrocarbons Results	6-3
Table 6-2	Polychlorinated Biphenyls Results	6-7
Table 6-3	Hydrocarbons Results	6-12
Table 6-4	Hydrogen Cyanide Results	6-12
Table 6-5	Carbon Monoxide Results.....	6-12

LIST OF FIGURES

Figure 1-1	Boiler No. 7 Schematic	1-2
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LIST OF APPENDICES

Appendix A:	Site-specific Test Plan
Appendix B:	Process Monitoring Data
Appendix C:	Waste Liquid Fuel Sampling Report
Appendix D:	Stack Sampling Report
Appendix E:	Analytical Data Packages
Appendix F:	Analytical Data Assessment Forms

1.0 INTRODUCTION

This test report is being submitted by BASF Corporation (BASF) for a hazardous waste fired boiler located at BASF's McIntosh, Alabama, facility. This unit is designated as Boiler No. 7. An emission test was performed for Boiler No. 7 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE.

This report describes the testing that was conducted for the purpose of collecting data on hazardous air pollutants (HAPs).

1.1 FACILITY OVERVIEW

The BASF McIntosh site is located in McIntosh, Washington County, Alabama, just east of Highway 43 where the Tombigbee River is channeled into Three Rivers Lake. The facility is composed of two production units. The first unit, the Antioxidant (AO) Production Unit, produces a group of products that counteract the effects of heat and time in plastics. The second unit, the Light Stabilizers Unit, produces two main product families – Tinuvin and Hindered Amine Light Stabilizers (HALS). The BASF McIntosh facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The location and identification numbers of the BASF McIntosh site are:

BASF Corporation
1379 Ciba Road
McIntosh, Alabama 36553
Latitude: 31.283333, Longitude: -88.000000
EPA ID No. ALD 001 221 902
EPA Facility Registry Service (FRS) No. 110000605051
Standard Industrial Classification (SIC) 2869
North American Industry Classification System (NAICS) 325199

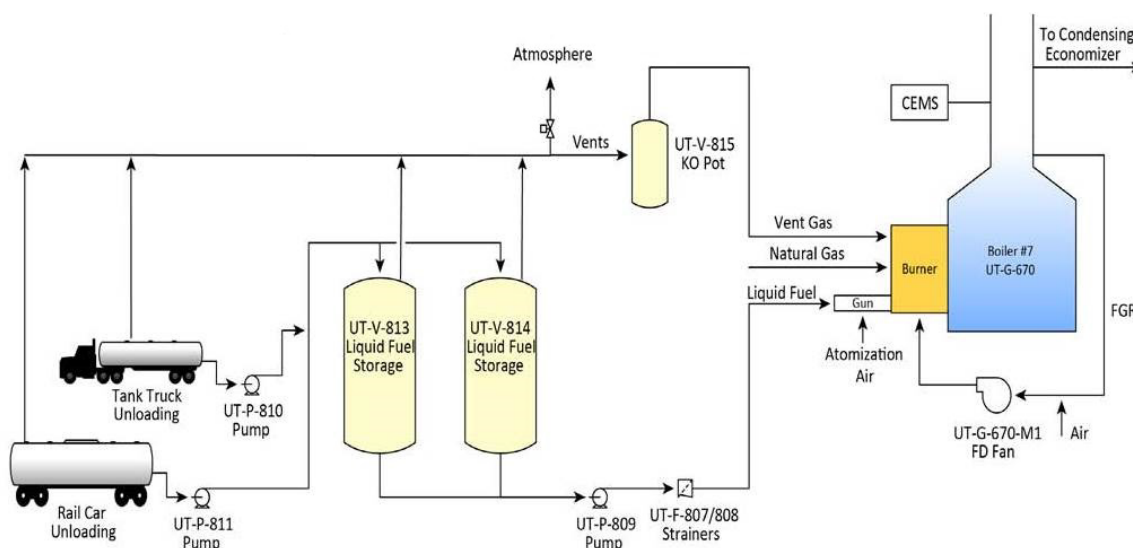
All correspondence should be directed to the following facility contact:

Wayne Goldman
EHS Specialist
BASF Corporation
1379 Ciba Road
McIntosh, Alabama 36553

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

BASF operates Boiler No. 7 to provide energy recovery as steam while destroying liquid waste streams generated in the production processes. Boiler No. 7 is fired on a mixture of natural gas, storage tank vent gas, and liquid hazardous waste. The liquid hazardous waste that is fired in Boiler No. 7 is identified as waste liquid fuel. The boiler is equipped with an economizer, a flue gas recirculation (FGR) system, a forced draft fan, and a stack. Boiler No. 7 is designed for a heat input of 143.7 million British thermal units per hour (MMBtu/hr). The Source Classification Code (SCC) for Boiler No. 7 is 10202002 (external combustion, industrial boiler, hazardous waste, liquid/gaseous fuel boiler). Figure 1-1 provides a general process schematic of Boiler No. 7.

**FIGURE 1-1
BOILER NO. 7 SCHEMATIC**



1.3 TEST OVERVIEW

This emission test was designed to provide the information requested in USEPA's ICR. One test condition was performed for the boiler. The test condition consisted of seven replicate test runs. Boiler No. 7 was operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boiler's current operating parameter limits (OPLs)).

The ICR requires emission testing for the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC);

-
- Hydrogen fluoride (HF);
 - Hydrogen bromide (HBr); and
 - Hydrogen cyanide.

Feedstream (both hazardous and non-hazardous) analyses were also required for higher heating value and fluorine and bromine contents for each test run.

BASF submitted a request to USEPA to waive the emission testing requirements for HF and HBr. In addition, BASF requested to waive the feedstream analytical requirements for fluorine and bromine contents. These waivers were requested because BASF does not use any fluorinated or brominated compounds in any of the processes that generate the boiler feedstreams. Therefore, the feedstreams should not contain any fluorine or bromine. In a response dated March 12, 2024, USEPA approved the waiver requests. Therefore, this emission test did not include stack gas sampling for HF and HBr and did not include feedstream analyses for fluorine and bromine contents.

The emission test was coordinated by BASF personnel, who provided oversight of the boiler operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) was responsible for the test plan and report development. Alliance Technical Group, LLC, (ATG) performed the stack sampling for the test program. ATG was responsible for all stack gas and waste liquid fuel samples collected during the test program, with oversight by BASF and Coterie. The stack gas and waste liquid fuel samples were sent to Eurofins Knoxville (Eurofins) for analysis.

1.4 TEST REPORT ORGANIZATION

This report has been prepared following Enclosure 1 of USEPA's ICR. The remaining sections of the report provide the following information:

- Section 2.0 presents a description of the operating conditions;
- Section 3.0 presents a summary of the sampling procedures;
- Section 4.0 presents a summary of the analytical procedures;
- Section 5.0 presents a summary of the feedstream analyses;
- Section 6.0 presents a summary of the stack gas results;
- Appendix A contains the site-specific test plan, including quality assurance project plan (QAPP);
- Appendix B contains the process monitoring data;
- Appendix C contains the waste liquid fuel sampling report;
- Appendix D contains the ATG report entitled *Source Test Report, BASF Corporation, Boiler No. 7* (Report Number AST-2024-2594);
- Appendix E contains the analytical data packages; and
- Appendix F provides the analytical data assessment forms.

2.0 OPERATING CONDITIONS

This emission test was designed to provide the information requested in USEPA's ICR. The program consisted of one test condition. The test condition consisted of seven replicate test runs. The test condition was designed to demonstrate operations of Boiler No. 7 in a normal and representative manner. To establish the operating conditions for the test, operating data from April 2023 through March 2024 was reviewed. The target conditions were set within the averages and the maximum or minimum OPL, as appropriate.

2.1 COMBUSTION CHAMBER TEMPERATURE

BASF continuously monitors the combustion chamber temperature to demonstrate compliance with the minimum combustion chamber temperature OPL. Combustion chamber temperature is monitored in degrees Fahrenheit (°F).

2.2 STACK GAS FLOW RATE

BASF continuously monitors the stack gas flow rate to demonstrate compliance with the maximum stack gas flow rate OPL. The stack gas flow rate is monitored in thousand standard cubic feet per minute (kscfm).

2.3 STEAM PRODUCTION RATE

BASF continuously monitored the steam production rate for plant operations. This monitoring is not required by the HWC NESHAP. The steam production rate is monitored in pounds per hour (lb/hr).

2.4 TOTAL HAZARDOUS WASTE FEED RATE

BASF continuously monitors the total hazardous waste feed rate to demonstrate compliance with the maximum total hazardous waste feed rate OPL. The total hazardous waste feed rate is monitored in lb/hr.

2.5 NATURAL GAS FEED RATE

Pipeline quality natural gas is used as the main fuel for Boiler No. 7. BASF continuously monitors the natural gas feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The natural gas feed rate is monitored in thousand standard cubic feet per hour (kscfh).

2.6 STORAGE TANK VENT GAS FEED RATE

Non-hazardous storage tank vent gas is also fed to the boiler. BASF continuously monitors the storage tank vent gas feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The storage tank vent gas feed rate is monitored in standard cubic feet per minute (scfm).

2.7 ATOMIZING FLUID PRESSURE

BASF continuously monitors the atomizing fluid pressure to demonstrate compliance with the minimum atomizing fluid pressure OPL. The atomizing fluid pressure is monitored in pounds per square inch gauge (psig).

2.8 TEST LOG

The emission test was conducted during the week of June 10, 2024. Short summaries of the daily test activities are provided below.

Monday, June 10, 2024 – The test team arrived onsite to setup equipment for testing.

Tuesday, June 11, 2024 – The boiler was operating at target conditions at 8:30 a.m. Run 1 began at 9:20 a.m. and ended at 1:30 p.m. Run 2 began at 2:11 p.m. and ended at 6:21 p.m. There were no disruptions during the test runs.

Wednesday, June 12, 2024 – The boiler was operating at target conditions at 8:00 a.m. Run 3 began at 8:40 a.m. and ended at 12:51 p.m. Run 4 began at 1:30 p.m. and ended at 5:43 p.m. There were no disruptions during the test runs.

Thursday, June 13, 2024 – The boiler was operating at target conditions at 7:00 a.m. Run 5 began at 8:10 a.m. and ended at 12:14 p.m. Run 6 began at 1:20 p.m. and ended at 5:29 p.m. There were no disruptions during the test runs.

Friday, June 14, 2024 – The boiler was operating at target conditions at 7:45 a.m. Run 7 began at 8:16 a.m. and ended at 12:19 p.m. There were no disruptions during the test run. The test team broke down the equipment, packed all samples, and left the site. All testing for the ICR was completed.

2.9 OPERATING DATA SUMMARY

Table 2-1 summarizes the operating conditions. The table compares the actual values achieved during the test to the targets provided in the site-specific test plan. The site-specific test plan is provided in Appendix A. The one-minute data recorded for the operating parameters is provided in Appendix B. The table presents the minimum, maximum, and average values for each test run and the average of the test run averages.

**TABLE 2-1
OPERATING CONDITIONS**

OPERATING PARAMETER	UNITS	TARGETS	STATISTICS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Combustion chamber temperature	°F	1,450	Average	1,822	1,822	1,796	1,806	1,794	1,796	1,791	1,804
			Minimum	1,806	1,809	1,781	1,791	1,784	1,781	1,774	
			Maximum	1,834	1,836	1,813	1,817	1,807	1,811	1,808	
Stack gas flow rate	kscfm	30	Average	33,881	33,885	33,749	33,625	34,167	33,051	33,549	33,701
			Minimum	33,870	33,871	33,045	33,042	33,867	33,038	33,041	
			Maximum	33,903	33,906	33,908	33,910	34,715	33,064	33,900	
Steam production rate	lb/hr	---	Average	98,379	98,694	97,226	97,678	96,433	95,004	96,555	97,138
			Minimum	97,571	97,944	96,512	96,797	94,673	94,585	95,693	
			Maximum	99,559	99,453	97,914	98,715	99,464	95,417	97,526	
Total hazardous waste feed rate	lb/hr	1,500	Average	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
			Minimum	1,496	1,495	1,495	1,496	1,495	1,495	1,496	
			Maximum	1,508	1,504	1,506	1,505	1,506	1,504	1,504	
Natural gas feed rate	kscfh	---	Average	106	106	105	105	105	102	104	105
			Minimum	106	106	105	105	102	101	104	
			Maximum	107	107	105	105	109	103	104	
Storage tank vent gas feed rate	scfm	---	Average	53.4	54.6	53.9	54.6	54.1	55.3	54.1	54.3
			Minimum	51.3	51.6	52.1	51.6	51.9	53.0	51.7	
			Maximum	55.5	57.3	57.2	56.8	56.6	57.5	56.3	
Atomizing fluid pressure	psig	---	Average	100	100	101	101	100	101	101	101
			Minimum	98	98	101	101	99	101	101	
			Maximum	101	101	101	101	101	101	101	

3.0 SAMPLING PROCEDURES

Sampling was performed during the emission test to satisfy the requirements of the ICR. This section provides descriptions of the waste liquid fuel and stack gas sampling procedures that were performed during the test.

3.1 WASTE LIQUID FUEL SAMPLING

The waste liquid fuel was fed to Boiler No. 7 during the test. Samples of the waste liquid fuel were collected during each run. The sampling methods were standard methods; therefore, only brief descriptions are provided. More detailed descriptions on the sampling methods can be found in the indicated reference documents and in the QAPP. The QAPP is provided in Appendix A. The waste liquid fuel sampling report is provided in Appendix C.

Samples were collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of the waste stream was collected into two separate bottles. At the end of the run, each bottle had approximately 450 mL of sample. One sample was sent to the laboratory for analysis, and one sample was sent to the laboratory as a backup.

3.2 STORAGE TANK VENT GAS SAMPLING

The storage tank vent gas was fed to Boiler No. 7 during the test. The storage tank vent gas was not sampled during the test. Storage tank vent gas characterization information is provided in Section 2.2 of the site-specific test plan.

3.3 NATURAL GAS SAMPLING

Natural gas was fed to Boiler No. 7 during the test. The natural gas was not sampled during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

3.4 STACK GAS SAMPLING

Stack gas samples were collected during each run. The stack gas sampling followed the USEPA methods documented in 40 CFR Part 60 Appendix A. More detailed descriptions of the sampling methods can be found in the indicated reference documents and in the QAPP.

The following monitoring and sampling methods were used:

- USEPA Methods 1, 2, 3A, and 4 for determination of stack sampling traverse points, gas flow rate, composition, and moisture content;
- USEPA Method 23 for measurement of PAH and PCB emissions;

- USEPA Method 25A, a portable continuous emissions monitoring systems (CEMS) operated by the stack sampling contractor, to monitor the concentrations of HC in the stack gas;
- USEPA Method 320 for measurement of hydrogen cyanide emissions; and
- The facility's CEMS to monitor the concentrations of carbon monoxide (CO) and oxygen in the stack gas.

Table 3-1 summarizes the stack gas sampling that was performed and the resulting samples that were collected. The complete field data and sampling procedures for the testing are described in the ATG report in Appendix D.

TABLE 3-1
STACK GAS SAMPLING

SAMPLING METHOD ¹	SAMPLING DURATION	SAMPLES COLLECTED PER RUN
USEPA Method 1	Before test series	Not applicable
USEPA Method 2	With each sampling train	Not applicable
USEPA Method 3A	Duration of each test run	Not applicable
USEPA Method 4	With each sampling train	Impingers weighed onsite
USEPA Method 23	240 minutes	Filter
		Front-half and back-half acetone and toluene rinses
		XAD-2 resin
		Deionized water impingers contents
		Deionized water impingers acetone and toluene rinses
USEPA Method 25A (Portable CEMS)	Duration of each test run	Not applicable
USEPA Method 320	60 minutes	Not applicable
Facility CEMS (USEPA Performance Specification 4B)	Duration of each test run	Not applicable

¹ USEPA Method refers to New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60. USEPA Performance Specification refers to New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

3.4.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

Seven samples for PAH and PCB were collected according to USEPA Methods 1, 2, 3A, 4, and 23. For each run, samples of 10-minute duration were taken isokinetically at each of the 24 traverse points for a total sampling time of 240 minutes. Data was recorded at five-minute intervals.

The USEPA Method 23 sampling train operated during this test program contained the following components:

- Glass nozzle;
- Heated glass probe maintained between 223 and 273°F;

-
- Heated quartz filter and Teflon support maintained between 223 and 273°F;
 - One condenser coil;
 - XAD sorbent trap;
 - Impinger 1 – empty;
 - Impinger 2 – 100 mL water;
 - Impinger 3 – 100 mL water;
 - Impinger 4 – empty; and
 - Impinger 5 – 200 to 300 grams silica gel.

All glassware used in the sampling train was cleaned prior to use. Additionally, all glassware connections were sealed with Teflon gaskets.

At the conclusion of each run, the filter and sorbent trap modules were recovered by sealing the openings with ground glass caps and plugs. The impinger contents were recovered in accordance with the procedures specified in USEPA Method 23. The inside surfaces of the nozzle, probe, and connecting glassware prior to the filter and sorbent module were washed with acetone and toluene.

The samples collected using the USEPA Method 23 sampling train were analyzed for PAH and PCB by high-resolution gas chromatography and high resolution mass spectrometry according to the guidelines of USEPA Method 23.

3.4.2 HYDROCARBONS

The procedures outlined in USEPA Method 25A were used to measure the concentration of HC (as propane) in the stack gas during the test. A continuous sample of stack gas was withdrawn via a sample probe. The sample gas was filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer were heated to a temperature of at least 250°F. Sampling was concurrent with the USEPA Method 23 testing.

3.4.3 HYDROGEN CYANIDE

The procedures outlined in USEPA Method 320 were used to measure the concentration of hydrogen cyanide in the stack gas during the test. The stack gas was extracted at a constant rate through a heated probe, heated filter, and heated sample line and analyzed with a Fourier transform infrared (FTIR) analyzer. All parts of the sampling system and the analyzer were heated to a temperature of approximately 300°F.

3.4.4 CARBON MONOXIDE AND OXYGEN

The Boiler No. 7 CEMS were operated during each test run to monitor the concentrations of CO and oxygen in the stack gas. A continuous sample of stack gas is withdrawn via a sample probe. The HWC NESHA requires that the CO and oxygen CEMS comply with Performance Specification 4B in 40 CFR Part 60 Appendix B.

3.5 SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL

The site-specific test plan and QAPP described the sampling activities required for the test program. All sampling was performed in accordance with the site-specific test plan, QAPP, and referenced methods. No sampling deviations occurred during this test program.

3.6 SAMPLING DATA SUMMARY

Tables 3-2 through 3-4 provide summaries of the sampling data for the test runs. Table 3-2 summarizes the sampling data for the USEPA Method 23 sampling train. Table 3-3 summarizes the sampling data for USEPA Method 25A. Table 3-4 summarizes the sampling data for USEPA Method 320.

The tables include data for actual sample volume in cubic feet (ft³) and corrected sample volume in dry standard cubic feet (dscf). Stack gas temperature and pressure data are presented in °F and inches of mercury (in. Hg), respectively. Stack gas composition data is presented in percent volume (% vol) or percent volume on a dry basis (% vol dry). Stack gas velocity is presented in feet per second (fps), and stack gas flow rate is presented in actual cubic feet per minute (acfm), standard cubic feet per minute (scfm), and/or dry standard cubic feet per minute (dscfm).

TABLE 3-2
USEPA METHOD 23 SAMPLING TRAIN OPERATING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	06/11/2024	06/11/2024	06/12/2024	06/12/2024	06/13/2024	06/13/2024	06/14/2024	---
Start time	---	09:20	14:11	08:40	13:30	08:10	13:20	08:16	---
Stop time	---	13:31	18:22	12:52	17:44	12:15	17:30	12:20	---
Sampling duration	minutes	240	240	240	240	240	240	240	240
Actual sample volume	ft ³	175.144	170.211	174.400	170.280	169.198	165.142	172.850	171.032
Corrected sample volume	dscf	174.943	168.610	175.946	169.721	171.525	164.661	174.951	171.480
Stack temperature	°F	393.5	392.0	393.7	390.4	389.5	390.8	388.8	391.2
Stack pressure	in. Hg	29.87	29.83	29.87	29.92	29.92	29.92	29.96	29.90
Moisture content	% vol	16.5	16.1	17.6	17.5	17.9	17.5	17.9	17.3
Carbon dioxide	% vol dry	9.97	9.96	9.95	9.92	9.87	9.98	10.15	9.97
Oxygen	% vol dry	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
Stack gas velocity	fps	69.1	68.0	69.2	67.2	68.1	67.4	68.5	68.2
Stack gas flow rate	acfm	47,833	47,092	47,910	46,502	47,158	46,671	47,422	47,227
Stack gas flow rate	scfm	29,537	29,092	29,577	28,869	29,306	28,958	29,534	29,268
Stack gas flow rate	dscfm	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209
Percent isokinetic	%	101.7	100.3	103.4	103.5	102.2	100.1	103.4	102.1

TABLE 3-3
USEPA METHOD 25A SAMPLING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	06/11/2024	06/11/2024	06/12/2024	06/12/2024	06/13/2024	06/13/2024	06/14/2024	---
Start time	---	09:20	14:11	08:40	13:30	08:10	13:20	08:16	---
Stop time	---	13:30	18:21	12:51	17:43	12:14	17:29	12:19	---
Sampling duration	min	250	250	251	253	244	249	243	249
Moisture content	% vol	16.5	16.1	17.6	17.5	17.9	17.5	17.9	17.3
Oxygen	% vol dry	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
Stack gas flow rate	dscfm	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209

TABLE 3-4
USEPA METHOD 320 SAMPLING DATA

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	06/11/2024	06/11/2024	06/12/2024	06/12/2024	06/13/2024	06/13/2024	06/14/2024	---
Start time	---	09:20	14:11	08:40	13:30	08:10	13:20	08:16	---
Stop time	---	13:30	18:21	12:51	17:43	12:14	17:29	12:19	---
Sampling duration	min	250	250	251	253	244	249	243	249
Moisture content	% vol	16.5	16.1	17.6	17.5	17.9	17.5	17.9	17.3
Oxygen	% vol dry	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
Stack gas flow rate	dscfm	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209

4.0 ANALYTICAL PROCEDURES

The analyses followed ASTM International (ASTM) and USEPA methods. This section describes the analyses and discusses any deviations in analytical procedures from those described in the site-specific test plan and QAPP. The QAPP was distributed to the laboratory for review prior to the test. The analytical data packages are provided in Appendix E.

4.1 WASTE LIQUID FUEL ANALYSES

All waste liquid fuel samples were sent to Eurofins for analysis. Samples of the waste liquid fuel were analyzed for higher heating value using ASTM Method D240. All holding times for these analyses were met, and all quality assurance (QA) and quality control (QC) criteria for these analyses were within acceptance limits.

4.2 STORAGE TANK VENT GAS ANALYSES

The storage tank vent gas was not analyzed for the test. Process knowledge is used to characterize the storage tank vent gas. Storage tank vent gas characterization information is provided in Section 2.2 of the site-specific test plan.

4.3 NATURAL GAS ANALYSES

The natural gas was not analyzed for the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

4.4 STACK GAS ANALYSES

The stack gas samples were analyzed for PAH and PCB by high-resolution gas chromatography and high resolution mass spectrometry according to the guidelines of USEPA Method 23. The USEPA Method 23 samples were sent to Eurofins for analysis. In addition, USEPA Method 25A was used to monitor the stack gas for HC concentrations, and USEPA Method 320 (FTIR) was used to monitor the stack gas for hydrogen cyanide concentrations. All holding times for the USEPA Method 23 analyses were met, and all QA/QC criteria for the methods were within acceptable limits, except as noted in Section 4.5.

4.5 ANALYTICAL QUALITY ASSURANCE AND QUALITY CONTROL

Prior to testing, BASF and the contract laboratory established QA/QC goals for each analysis that would be performed as part of the test program. QA/QC objectives included precision, accuracy, representativeness, comparability, and completeness. Typical parameters include laboratory control sample (LCS) and LCS duplicate (LCSD) samples, field and sample duplicates, surrogates, standards, and spikes. Precision is expressed in terms of the distribution, or scatter, of replicate measurement results,

calculated as the relative standard deviation (RSD) or, for duplicates, as relative percent difference (RPD). Accuracy is expressed in terms of percent recovery (e.g., for surrogates, spikes, and reference material).

Tables 4-1 through 4-5 provide details on the QA/QC results. Detailed descriptions of the evaluations are included in the analytical data packages provided in Appendix E and the analytical data assessment forms provided in Appendix F.

TABLE 4-1
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
LIQUID WASTE SAMPLES – HIGHER HEATING VALUE

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Field duplicate	One per test program	≤20% relative percent difference	None
	Laboratory control sample duplicate	One per analytical batch	≤2% relative percent difference	None
	Sample duplicate	One per analytical batch	≤10% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	98-102% recovery	None
Calibration	Initial Calibration	Before analysis and as needed	≤1% relative standard deviation	None
	Calibration checks	As needed	±1% difference from initial calibration	None
Contamination effects	None	---	---	---
Handling and traceability	Holding time	Each sample	<180 days	None

TABLE 4-2
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Laboratory control sample duplicate	One per analytical batch	≤50% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	70-130% recovery	Recoveries of naphthalene in the laboratory control samples were outside of limits.
	Internal standards (isotope dilution)	Every sample	20-130% recovery for polycyclic aromatic hydrocarbons 20-145% recovery for polychlorinated biphenyls	Recoveries of ¹³ C ₆ -naphthalene in the Run 6 and field proof blank samples were outside of limits.
	Surrogate standards	Every sample	70-130% recovery	Recovery for anthracene-d ₁₀ surrogate in the Run 7 sample was outside of limits.
Calibration	Initial calibration (five solutions)	Prior to sample analysis	1. Mean relative response factor for unlabeled standards: <10% relative standard deviation 2. Mean relative response factor for labeled reference compounds: <20% relative standard deviation	None
	Calibration verification (midlevel standard)	At least once per shift	1. Response factors within ±25% of the initial calibration mean relative response factor for unlabeled standards 2. Response factors within ±25% of the initial calibration mean relative response factor for pre-sampling adsorbent standard and pre-extraction filter recovery standard 3. Response factors within ±30% of the initial calibration mean relative response factor for pre-extraction standard and alternative recovery standard	Some response factors were outside of limits.

TABLE 4-2 (CONTINUED)
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration (continued)	Retention time window verification and gas chromatograph column performance	At the beginning of each shift	Compliance with USEPA Method 23	None
Contamination effects	Method blank	One per analytical batch	<Reporting limit	Naphthalene, phenanthrene, fluoranthene, and pyrene were reported in the method blank for Batch 88945 at concentrations above the reporting limits.
	Field proof blank	One per test program	<Reporting limit	2,2',3,5'-Tetrachlorobiphenyl (PCB-44), 2,2',5,5'-tetrachlorobiphenyl (PCB-52), and phenanthrene were reported in the field proof blank at concentrations above the reporting limits.
Handling and traceability	Holding time	Each sample	1. <30 days to extraction 2. <40 days from extraction to analysis ¹	None

¹ Holding time from extraction may be up to one year if samples are stored below -10°C.

TABLE 4-3
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – HYDROCARBONS

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration error test	Checked using USEPA Protocol 1 calibration gases	Prior to the first test run and after any failed drift test	±5% of calibration gas value	None
Drift test	Checked using USEPA Protocol 1 calibration gases	After the last test run and hourly during the test period	±3% of span value	None

TABLE 4-4
SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL
STACK GAS – HYDROGEN CYANIDE

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration transfer standard direct	Verify stability, confirm optical path length	Pre-test	±5% of cert value	None
Calibration transfer standard responses	Verify system stability, recovery, and response time	Pre and post-test run	±5% of mean value	None
Analyte spike	Verify system ability to quantify the analyte of interest in the gas stream	Pre-test	±30% theoretical recovery	None

Table 4-5 summarizes the analytical deviations and provides discussions of the impact that the deviations had on the analytical results, if any.

TABLE 4-5
SUMMARY OF ANALYTICAL DEVIATIONS

RUN	DEVIATION/EXCEPTION	SIGNIFICANCE
Waste liquid fuel analyses:		
None	None	None
Stack gas analyses:		
All	Recoveries of naphthalene in the laboratory control samples were outside of limits. The recoveries were 816 percent and 691 percent, which are above the upper limit of 140 percent.	The recoveries were above the limit indicating a potential high bias. This congener was reported at levels above the reporting limit in all samples. These results may be biased high.
All	Recoveries of 13C6-naphthalene surrogate in the Run 6 and field proof blank samples were outside of limits. The recoveries were 16 percent and 18 percent, which is below the lower limit of 20 percent.	Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all analytes in the sample.
7	Recovery for anthracene-d10 surrogate in Run 7 sample was outside of limits. The recovery was 69 percent, which is just below the lower limit of 70 percent.	Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all analytes in the sample.
2, 5, 6, 7	The response factors for 13C6-indeno(1,2,3-cd)pyrene and 13C6-dibenz(a,h)anthracene were outside of limits in the continuing calibration verification for Batch 88999.	Results for Runs 2, 5, 6, and 7 for indeno(1,2,3-cd)pyrene and dibenz(a,h)anthracene were consistent with other runs. This deviation has minimal impact on the results.

TABLE 4-5 (CONTINUED)
SUMMARY OF ANALYTICAL DEVIATIONS

RUN	DEVIATION/EXCEPTION			SIGNIFICANCE
All	Several polycyclic aromatic hydrocarbons were reported in the method blank for Batch 88945 at concentrations above the reporting limits.			The results for these analytes may exhibit a high bias.
	<i>Analyte</i>	<i>Result ng/sample</i>	<i>Reporting Limit ng/sample</i>	
	Fluoranthene	15.46	6.00	
	Naphthalene	1,119	75.0	
	Phenanthrene	18.18	6.00	
	Pyrene	55.75	6.00	
All	2,2',3,5'-Tetrachlorobiphenyl (PCB-44), 2,2',5,5'-tetrachlorobiphenyl (PCB-52), and phenanthrene were reported in the field proof blank at concentrations above the reporting limits.			The results for these analytes may exhibit a high bias.
	<i>Analyte</i>	<i>Result ng/sample</i>	<i>Reporting Limit ng/sample</i>	
	2,2',3,5'-tetrachlorobiphenyl (PCB-44)	1.48	0.900	
	2,2',5,5'-tetrachlorobiphenyl (PCB-52)	0.411	0.300	
	Phenanthrene	262	60.0	

5.0 FEEDSTREAM RESULTS

Waste liquid fuel, storage tank vent gas, and natural gas were fed to Boiler No. 7 during each test run. This section of the report presents the results of feedstream analyses.

5.1 WASTE LIQUID FUEL

The liquid hazardous waste fired in Boiler No. 7 is identified as waste liquid fuel. The waste liquid fuel was fed to the boiler during the testing. Table 5-1 presents the higher heating value of the waste liquid fuel for each test run. The higher heating value is provided in British thermal units per pound (Btu/lb).

TABLE 5-1
WASTE LIQUID FUEL

RUN	HIGHER HEATING VALUE (BTU/LB)
1	11,200
2	11,500
3	11,300
4	11,400
5	11,400
6	11,300
7	11,300
Average	11,333

5.2 STORAGE TANK VENT GAS

Non-hazardous storage tank vent gas was fed to the boiler. Process knowledge is used to characterize the storage tank vent gas. Storage tank vent gas characterization information is provided in Section 2.2 of the site specific test plan.

5.3 NATURAL GAS

Pipeline quality natural gas was fed to the boiler as the main fuel for combustion. The natural gas is not expected to contain any HWC NESHAP regulated constituents in greater than trace quantities.

6.0 STACK GAS RESULTS

The emission test was designed to provide the information requested in USEPA's ICR. One test condition was performed for the boiler. The test condition consisted of seven replicate test runs. The ICR emission testing included the following pollutants:

- PAH;
- PCB;
- HC;
- Hydrogen cyanide; and
- CO

The stack gas emission results are discussed below and summarized in the tables in Section 6.5. The ATG stack sampling report is provided in Appendix D. All analytical data packages are included in Appendix E.

6.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS EMISSION RESULTS

USEPA Method 23 was used to sample and analyze the stack gas for PAH and PCB concentrations. Analytes that were reported as non-detect in any sample fraction were calculated using the method detection limits (MDLs) and are reported with a "<" sign.

6.2 HYDROCARBONS EMISSION RESULTS

USEPA Method 25A was used to monitor the stack gas for HC concentrations. The results were calculated assuming all non-detects were present at the reporting limit (RL) and are reported with a "<" sign.

6.3 HYDROGEN CYANIDE EMISSION RESULTS

USEPA Method 320 was used to monitor the stack gas for hydrogen cyanide concentrations. The results were calculated assuming all non-detects were present at the MDL and are reported with a "<" sign.

6.4 CARBON MONOXIDE

The Boiler No. 7 CEMS were operated during the emission test to monitor the concentrations of CO and oxygen in the stack gas. The data presented for CO is based on hourly rolling average (HRA) values; the data presented for oxygen is based on one-minute average readings. The one-minute data recorded is provided in Appendix B.

6.5 STACK GAS RESULTS SUMMARY

Tables 6-1 through 6-5 provide summaries of the stack gas results.

Table 6-1 summarizes the PAH results. Results are presented in nanograms (ng) for the total sample train catch. Emission results are presented in nanograms per dry standard cubic meter (ng/dscm) uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-2 summarizes the PCB results. Results are presented in ng for the total sample train catch. Emission results are presented in ng/dscm uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-3 summarizes the HC results. Emission results are reported as propane and are presented in parts per million by volume on a dry basis (ppmv dry) uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-4 summarizes the hydrogen cyanide results. Emission results are presented in ppmv dry uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-5 summarizes the CO and oxygen results. The CO emission results are presented in ppmv dry corrected to seven percent oxygen, and the oxygen results are presented in % vol dry.

TABLE 6-1
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Acenaphthene	ng	119	17.1	55.7	76.2	69.1	35.8	42.9	59.4
	ng/dscm	2.40E+01	3.58E+00	1.12E+01	1.59E+01	1.42E+01	7.68E+00	8.66E+00	1.22E+01
	ng/dscm ¹	1.96E+01	2.91E+00	9.08E+00	1.29E+01	1.17E+01	6.27E+00	7.06E+00	9.92E+00
	lb/hr	2.22E-06	3.28E-07	1.02E-06	1.41E-06	1.28E-06	6.87E-07	7.86E-07	1.11E-06
Acenaphthylene	ng	40.1	2.31	9.30	9.70	21.4	10.8	13.7	15.3
	ng/dscm	8.09E+00	4.84E-01	1.87E+00	2.02E+00	4.41E+00	2.32E+00	2.77E+00	3.14E+00
	ng/dscm ¹	6.59E+00	3.94E-01	1.52E+00	1.64E+00	3.62E+00	1.89E+00	2.25E+00	2.56E+00
	lb/hr	7.48E-07	4.42E-08	1.70E-07	1.80E-07	3.97E-07	2.07E-07	2.51E-07	2.85E-07
Anthracene	ng	104	3.50	36.1	32.7	78.3	29.2	42.9	46.7
	ng/dscm	2.10E+01	7.33E-01	7.25E+00	6.80E+00	1.61E+01	6.26E+00	8.66E+00	9.55E+00
	ng/dscm ¹	1.71E+01	5.97E-01	5.88E+00	5.52E+00	1.33E+01	5.11E+00	7.06E+00	7.79E+00
	lb/hr	1.94E-06	6.70E-08	6.62E-07	6.07E-07	1.45E-06	5.60E-07	7.86E-07	8.68E-07
Benz[a]anthracene	ng	3.94	7.76	3.25	5.89	6.85	3.21	4.71	5.09
	ng/dscm	7.95E-01	1.63E+00	6.52E-01	1.23E+00	1.41E+00	6.88E-01	9.51E-01	1.05E+00
	ng/dscm ¹	6.48E-01	1.32E+00	5.30E-01	9.94E-01	1.16E+00	5.62E-01	7.75E-01	8.56E-01
	lb/hr	1.94E-06	6.70E-08	6.62E-07	6.07E-07	1.45E-06	5.60E-07	7.86E-07	8.68E-07
Benzo[b]fluoranthene	ng	16.2	18.7	17.7	23.6	7.28	5.15	5.79	13.5
	ng/dscm	3.27E+00	3.92E+00	3.55E+00	4.91E+00	1.50E+00	1.10E+00	1.17E+00	2.77E+00
	ng/dscm ¹	2.66E+00	3.19E+00	2.88E+00	3.98E+00	1.23E+00	9.02E-01	9.53E-01	2.26E+00
	lb/hr	3.02E-07	3.58E-07	3.24E-07	4.38E-07	1.35E-07	9.89E-08	1.06E-07	2.52E-07

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Benzo[k]fluoranthene	ng	5.79	5.47	5.25	9.67	4.50	2.56	3.25	5.21
	ng/dscm	1.17E+00	1.15E+00	1.05E+00	2.01E+00	9.26E-01	5.49E-01	6.56E-01	1.07E+00
	ng/dscm ¹	9.52E-01	9.32E-01	8.56E-01	1.63E+00	7.62E-01	4.48E-01	5.35E-01	8.74E-01
	lb/hr	1.08E-07	1.05E-07	9.62E-08	1.80E-07	8.35E-08	4.91E-08	5.96E-08	9.72E-08
Benzo[g,h,i]perylene	ng	20.8	67.2	21.2	127	29.1	51.5	20.3	48.2
	ng/dscm	4.20E+00	1.41E+01	4.26E+00	2.64E+01	5.99E+00	1.10E+01	4.10E+00	1.00E+01
	ng/dscm ¹	3.42E+00	1.15E+01	3.45E+00	2.14E+01	4.92E+00	9.02E+00	3.34E+00	8.15E+00
	lb/hr	3.88E-07	1.29E-06	3.89E-07	2.36E-06	5.40E-07	9.89E-07	3.72E-07	9.03E-07
Benzo[a]pyrene	ng	9.68	5.64	8.42	11.2	4.27	3.64	3.81	6.67
	ng/dscm	1.95E+00	1.18E+00	1.69E+00	2.33E+00	8.79E-01	7.81E-01	7.69E-01	1.37E+00
	ng/dscm ¹	1.59E+00	9.61E-01	1.37E+00	1.89E+00	7.23E-01	6.37E-01	6.27E-01	1.11E+00
	lb/hr	1.80E-07	1.08E-07	1.54E-07	2.08E-07	7.92E-08	6.99E-08	6.98E-08	1.24E-07
Benzo[e]pyrene	ng	211	68.9	22.8	93.6	17.0	16.1	12.9	63.2
	ng/dscm	4.26E+01	1.44E+01	4.58E+00	1.95E+01	3.50E+00	3.45E+00	2.60E+00	1.29E+01
	ng/dscm ¹	3.47E+01	1.17E+01	3.72E+00	1.58E+01	2.88E+00	2.82E+00	2.12E+00	1.05E+01
	lb/hr	3.93E-06	1.32E-06	4.18E-07	1.74E-06	3.15E-07	3.09E-07	2.36E-07	1.18E-06
Chrysene	ng	22.1	21.1	18.1	19.9	17.6	10.4	13.6	17.5
	ng/dscm	4.46E+00	4.42E+00	3.63E+00	4.14E+00	3.62E+00	2.23E+00	2.75E+00	3.61E+00
	ng/dscm ¹	3.63E+00	3.60E+00	2.95E+00	3.36E+00	2.98E+00	1.82E+00	2.24E+00	2.94E+00
	lb/hr	4.12E-07	4.04E-07	3.32E-07	3.70E-07	3.27E-07	2.00E-07	2.49E-07	3.28E-07
Dibenz[a,h]anthracene	ng	4.14	5.39	10.2	10.0	7.43	5.77	5.88	6.97
	ng/dscm	8.36E-01	1.13E+00	2.05E+00	2.08E+00	1.53E+00	1.24E+00	1.19E+00	1.44E+00
	ng/dscm ¹	6.81E-01	9.19E-01	1.66E+00	1.69E+00	1.26E+00	1.01E+00	9.68E-01	1.17E+00
	lb/hr	7.72E-08	1.03E-07	1.87E-07	1.86E-07	1.38E-07	1.11E-07	1.08E-07	1.30E-07

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Fluoranthene	ng	125	57.2	49.5	79.8	87.6	41.1	65.4	72.2
	ng/dscm	2.52E+01	1.20E+01	9.94E+00	1.66E+01	1.80E+01	8.81E+00	1.32E+01	1.48E+01
	ng/dscm ¹	2.05E+01	9.75E+00	8.07E+00	1.35E+01	1.48E+01	7.19E+00	1.08E+01	1.21E+01
	lb/hr	2.33E-06	1.10E-06	9.07E-07	1.48E-06	1.63E-06	7.89E-07	1.20E-06	1.35E-06
Fluorene	ng	261	19.2	109	128	204	76.1	103	129
	ng/dscm	5.27E+01	4.02E+00	2.19E+01	2.66E+01	4.20E+01	1.63E+01	2.08E+01	2.63E+01
	ng/dscm ¹	4.29E+01	3.27E+00	1.78E+01	2.16E+01	3.45E+01	1.33E+01	1.69E+01	2.15E+01
	lb/hr	4.87E-06	3.68E-07	2.00E-06	2.38E-06	3.79E-06	1.46E-06	1.89E-06	2.39E-06
Indeno[1,2,3-cd]pyrene	ng	10.1	14.6	10.0	40.2	7.79	9.37	6.47	14.1
	ng/dscm	2.04E+00	3.06E+00	2.01E+00	8.36E+00	1.60E+00	2.01E+00	1.31E+00	2.91E+00
	ng/dscm ¹	1.66E+00	2.49E+00	1.63E+00	6.79E+00	1.32E+00	1.64E+00	1.06E+00	2.37E+00
	lb/hr	1.88E-07	2.80E-07	1.83E-07	7.46E-07	1.45E-07	1.80E-07	1.19E-07	2.63E-07
2-Methylnaphthalene	ng	438	153	271	398	248	150	191	264
	ng/dscm	8.84E+01	3.20E+01	5.44E+01	8.28E+01	5.11E+01	3.22E+01	3.86E+01	5.42E+01
	ng/dscm ¹	7.20E+01	2.61E+01	4.42E+01	6.72E+01	4.20E+01	2.63E+01	3.14E+01	4.42E+01
	lb/hr	8.17E-06	2.93E-06	4.97E-06	7.39E-06	4.60E-06	2.88E-06	3.50E-06	4.92E-06
Naphthalene	ng	874	417	754	899	768	529	667	701
	ng/dscm	1.76E+02	8.73E+01	1.51E+02	1.87E+02	1.58E+02	1.13E+02	1.35E+02	1.44E+02
	ng/dscm ¹	1.44E+02	7.11E+01	1.23E+02	1.52E+02	1.30E+02	9.26E+01	1.10E+02	1.17E+02
	lb/hr	1.63E-05	7.99E-06	1.38E-05	1.67E-05	1.43E-05	1.02E-05	1.22E-05	1.31E-05
Perylene	ng	4.81	1.28	4.00	42.0	1.76	1.13	2.14	8.16
	ng/dscm	9.71E-01	2.68E-01	8.03E-01	8.74E+00	3.62E-01	2.42E-01	4.32E-01	1.69E+00
	ng/dscm ¹	7.91E-01	2.18E-01	6.52E-01	7.09E+00	2.98E-01	1.98E-01	3.52E-01	1.37E+00
	lb/hr	8.97E-08	2.45E-08	7.33E-08	7.80E-07	3.27E-08	2.17E-08	3.92E-08	1.52E-07

TABLE 6-1 (CONTINUED)
POLYCYCLIC AROMATIC HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Phenanthrene	ng	887	76.7	334	331	675	281.0	411	428
	ng/dscm	1.79E+02	1.61E+01	6.70E+01	6.89E+01	1.39E+02	6.03E+01	8.30E+01	8.76E+01
	ng/dscm ¹	1.46E+02	1.31E+01	5.44E+01	5.59E+01	1.14E+02	4.92E+01	6.76E+01	7.15E+01
	lb/hr	1.65E-05	1.47E-06	6.12E-06	6.15E-06	1.25E-05	5.39E-06	7.53E-06	7.96E-06
Pyrene	ng	132	97.2	56.4	114	92.0	50.0	72.8	87.8
	ng/dscm	2.66E+01	2.04E+01	1.13E+01	2.37E+01	1.89E+01	1.07E+01	1.47E+01	1.81E+01
	ng/dscm ¹	2.17E+01	1.66E+01	9.20E+00	1.92E+01	1.56E+01	8.75E+00	1.20E+01	1.47E+01
	lb/hr	2.46E-06	1.86E-06	1.03E-06	2.12E-06	1.71E-06	9.60E-07	1.33E-06	1.64E-06

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-2
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,4'-Dichlorobiphenyl (PCB-8)	ng	0.584	0.270	0.186	0.363	0.476	0.254	0.371	0.358
	ng/dscm	1.18E-01	5.66E-02	3.73E-02	7.55E-02	9.80E-02	5.45E-02	7.49E-02	7.35E-02
	ng/dscm ¹	9.60E-02	4.60E-02	3.03E-02	6.13E-02	8.06E-02	4.45E-02	6.11E-02	6.00E-02
	lb/hr	1.09E-08	5.17E-09	3.41E-09	6.74E-09	8.83E-09	4.88E-09	6.80E-09	6.67E-09
2,2',5-Trichlorobiphenyl (PCB-18)	ng	<0.285	0.284	0.155	0.262	0.458	0.268	0.370	<0.297
	ng/dscm	<5.75E-02	5.95E-02	3.11E-02	5.45E-02	9.43E-02	5.75E-02	7.47E-02	<6.13E-02
	ng/dscm ¹	<4.68E-02	4.84E-02	2.53E-02	4.42E-02	7.75E-02	4.69E-02	6.09E-02	<5.00E-02
	lb/hr	<5.31E-09	5.44E-09	2.84E-09	4.87E-09	8.50E-09	5.14E-09	6.78E-09	<5.55E-09
2,4,4'-Trichlorobiphenyl (PCB-28)	ng	2.77	0.180	0.691	0.560	1.03	0.731	0.855	0.974
	ng/dscm	5.59E-01	3.77E-02	1.39E-01	1.17E-01	2.12E-01	1.57E-01	1.73E-01	1.99E-01
	ng/dscm ¹	4.55E-01	3.07E-02	1.13E-01	9.46E-02	1.74E-01	1.28E-01	1.41E-01	1.62E-01
	lb/hr	5.16E-08	3.45E-09	1.27E-08	1.04E-08	1.91E-08	1.40E-08	1.57E-08	1.81E-08
2,2',3,5'- Tetrachlorobiphenyl (PCB-44)	ng	4.65	0.345	1.79	1.62	3.62	1.81	2.42	2.32
	ng/dscm	9.39E-01	7.23E-02	3.59E-01	3.37E-01	7.45E-01	3.88E-01	4.88E-01	4.76E-01
	ng/dscm ¹	7.64E-01	5.88E-02	2.92E-01	2.74E-01	6.13E-01	3.17E-01	3.98E-01	3.88E-01
	lb/hr	8.67E-08	6.61E-09	3.28E-08	3.01E-08	6.72E-08	3.47E-08	4.44E-08	4.32E-08
2,2',5,5'- Tetrachlorobiphenyl (PCB-52)	ng	1.33	0.198	0.500	0.393	0.845	0.523	0.718	0.644
	ng/dscm	2.68E-01	4.15E-02	1.00E-01	8.18E-02	1.74E-01	1.12E-01	1.45E-01	1.32E-01
	ng/dscm ¹	2.19E-01	3.37E-02	8.15E-02	6.64E-02	1.43E-01	9.16E-02	1.18E-01	1.08E-01
	lb/hr	2.48E-08	3.79E-09	9.17E-09	7.30E-09	1.57E-08	1.00E-08	1.32E-08	1.20E-08

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4'- Tetrachlorobiphenyl (PCB-66)	ng	1.42	0.0901	0.381	0.236	0.366	0.366	0.347	0.458
	ng/dscm	2.87E-01	1.89E-02	7.65E-02	4.91E-02	7.54E-02	7.85E-02	7.00E-02	9.36E-02
	ng/dscm ¹	2.33E-01	1.54E-02	6.21E-02	3.98E-02	6.19E-02	6.41E-02	5.71E-02	7.63E-02
	lb/hr	2.65E-08	1.73E-09	6.98E-09	4.38E-09	6.79E-09	7.03E-09	6.36E-09	8.53E-09
3,3',4,4'- Tetrachlorobiphenyl (PCB-77)	ng	0.145	0.0979	0.0610	0.0793	<0.126	0.0649	0.0399	<0.0877
	ng/dscm	2.93E-02	2.05E-02	1.22E-02	1.65E-02	<2.59E-02	1.39E-02	8.05E-03	<1.81E-02
	ng/dscm ¹	2.38E-02	1.67E-02	9.94E-03	1.34E-02	<2.13E-02	1.14E-02	6.57E-03	<1.47E-02
	lb/hr	2.70E-09	1.88E-09	1.12E-09	1.47E-09	<2.34E-09	1.25E-09	7.31E-10	<1.64E-09
3,4,4',5- Tetrachlorobiphenyl (PCB-81)	ng	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960	<0.0960
	ng/dscm	<1.94E-02	<2.01E-02	<1.93E-02	<2.00E-02	<1.98E-02	<2.06E-02	<1.94E-02	<1.98E-02
	ng/dscm ¹	<1.58E-02	<1.64E-02	<1.56E-02	<1.62E-02	<1.62E-02	<1.68E-02	<1.58E-02	<1.61E-02
	lb/hr	<1.79E-09	<1.84E-09	<1.76E-09	<1.78E-09	<1.78E-09	<1.84E-09	<1.76E-09	<1.79E-09
2,2',4,5,5'- Pentachlorobiphenyl (PCB-101)	ng	0.304	0.178	0.131	0.188	0.228	0.113	0.217	0.194
	ng/dscm	6.14E-02	3.73E-02	2.63E-02	3.91E-02	4.69E-02	2.42E-02	4.38E-02	3.99E-02
	ng/dscm ¹	5.00E-02	3.03E-02	2.13E-02	3.17E-02	3.86E-02	1.98E-02	3.57E-02	3.25E-02
	lb/hr	5.67E-09	3.41E-09	2.40E-09	3.49E-09	4.23E-09	2.17E-09	3.98E-09	3.62E-09
2,3,3',4,4'- Pentachlorobiphenyl (PCB-105)	ng	0.0771	0.0595	0.0515	0.0839	0.0851	0.0427	0.0579	0.0654
	ng/dscm	1.56E-02	1.25E-02	1.03E-02	1.75E-02	1.75E-02	9.20E-03	1.17E-02	1.35E-02
	ng/dscm ¹	1.27E-02	1.01E-02	8.39E-03	1.42E-02	1.44E-02	7.47E-03	9.53E-03	1.10E-02
	lb/hr	1.44E-09	1.14E-09	9.44E-10	1.56E-09	1.58E-09	8.20E-10	1.06E-09	1.22E-09
2,3,4,4',5- Pentachlorobiphenyl (PCB-114)	ng	<0.165	<0.165	<0.165	<0.165	<0.165	<0.165	<0.165	<0.165
	ng/dscm	<3.33E-02	<3.46E-02	<3.31E-02	<3.43E-02	<3.40E-02	<3.54E-02	<3.33E-02	<3.40E-02
	ng/dscm ¹	<2.71E-02	<2.81E-02	<2.69E-02	<2.79E-02	<2.79E-02	<2.89E-02	<2.72E-02	<2.77E-02
	lb/hr	<3.08E-09	<3.16E-09	<3.02E-09	<3.06E-09	<3.06E-09	<3.17E-09	<3.02E-09	<3.08E-09

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4',5-Pentachlorobiphenyl (PCB-118)	ng	0.159	0.155	0.116	0.162	0.167	0.0909	0.144	0.142
	ng/dscm	3.21E-02	3.25E-02	2.33E-02	3.37E-02	3.44E-02	1.95E-02	2.91E-02	2.92E-02
	ng/dscm ¹	2.61E-02	2.64E-02	1.89E-02	2.74E-02	2.83E-02	1.59E-02	2.37E-02	2.38E-02
	lb/hr	2.96E-09	2.97E-09	2.13E-09	3.01E-09	3.10E-09	1.74E-09	2.64E-09	2.65E-09
2',3,4,4',5-Pentachlorobiphenyl (PCB-123)	ng	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171
	ng/dscm	<3.45E-02	<3.58E-02	<3.43E-02	<3.56E-02	<3.52E-02	<3.67E-02	<3.45E-02	<3.52E-02
	ng/dscm ¹	<2.81E-02	<2.91E-02	<2.79E-02	<2.89E-02	<2.89E-02	<2.99E-02	<2.81E-02	<2.87E-02
	lb/hr	<3.19E-09	<3.28E-09	<3.13E-09	<3.18E-09	<3.17E-09	<3.28E-09	<3.13E-09	<3.19E-09
3,3',4,4',5-Pentachlorobiphenyl (PCB-126)	ng	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123	<0.123
	ng/dscm	<2.48E-02	<2.58E-02	<2.47E-02	<2.56E-02	<2.53E-02	<2.64E-02	<2.48E-02	<2.53E-02
	ng/dscm ¹	<2.02E-02	<2.10E-02	<2.00E-02	<2.08E-02	<2.08E-02	<2.15E-02	<2.02E-02	<2.07E-02
	lb/hr	<2.29E-09	<2.36E-09	<2.25E-09	<2.28E-09	<2.28E-09	<2.36E-09	<2.25E-09	<2.30E-09
2,2',3,3',4,4'-Hexachlorobiphenyl (PCB-128)	ng	<0.204	0.0752	0.0384	0.0576	0.0405	0.00536	0.0264	<0.0639
	ng/dscm	<4.12E-02	1.58E-02	7.71E-03	1.20E-02	8.34E-03	1.15E-03	5.33E-03	<1.31E-02
	ng/dscm ¹	<3.35E-02	1.28E-02	6.26E-03	9.73E-03	6.85E-03	9.38E-04	4.34E-03	<1.06E-02
	lb/hr	<3.80E-09	1.44E-09	7.04E-10	1.07E-09	7.51E-10	1.03E-10	4.84E-10	<1.19E-09
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-138)	ng	0.182	0.418	0.117	0.350	0.260	0.0532	0.171	0.222
	ng/dscm	3.67E-02	8.75E-02	2.35E-02	7.28E-02	5.35E-02	1.14E-02	3.45E-02	4.57E-02
	ng/dscm ¹	2.99E-02	7.12E-02	1.91E-02	5.91E-02	4.40E-02	9.31E-03	2.81E-02	3.73E-02
	lb/hr	3.39E-09	8.01E-09	2.14E-09	6.50E-09	4.82E-09	1.02E-09	3.13E-09	4.15E-09
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153)	ng	0.109	0.244	0.160	0.220	0.153	0.0504	0.0882	0.146
	ng/dscm	2.20E-02	5.11E-02	3.21E-02	4.58E-02	3.15E-02	1.08E-02	1.78E-02	3.02E-02
	ng/dscm ¹	1.79E-02	4.16E-02	2.61E-02	3.71E-02	2.59E-02	8.82E-03	1.45E-02	2.46E-02
	lb/hr	2.03E-09	4.67E-09	2.93E-09	4.09E-09	2.84E-09	9.67E-10	1.62E-09	2.74E-09

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-156)	ng	0.0179	0.0180	0.00585	0.0312	0.0242	<0.255	0.0146	<0.0524
	ng/dscm	3.61E-03	3.77E-03	1.17E-03	6.49E-03	4.98E-03	<5.47E-02	2.95E-03	<1.11E-02
	ng/dscm ¹	2.94E-03	3.07E-03	9.53E-04	5.27E-03	4.10E-03	<4.46E-02	2.40E-03	<9.05E-03
	lb/hr	3.34E-10	3.45E-10	1.07E-10	5.79E-10	4.49E-10	<4.89E-09	2.68E-10	<9.97E-10
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157)	ng	0.0179	0.0180	0.00585	0.0312	0.0242	<0.255	0.0146	<0.0524
	ng/dscm	3.61E-03	3.77E-03	1.17E-03	6.49E-03	4.98E-03	<5.47E-02	2.95E-03	<1.11E-02
	ng/dscm ¹	2.94E-03	3.07E-03	9.53E-04	5.27E-03	4.10E-03	<4.46E-02	2.40E-03	<9.05E-03
	lb/hr	3.34E-10	3.45E-10	1.07E-10	5.79E-10	4.49E-10	<4.89E-09	2.68E-10	<9.97E-10
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB-167)	ng	0.0103	<0.180	<0.180	<0.180	<0.180	<0.180	<0.180	<0.156
	ng/dscm	2.08E-03	<3.77E-02	<3.61E-02	<3.75E-02	<3.71E-02	<3.86E-02	<3.63E-02	<3.22E-02
	ng/dscm ¹	1.69E-03	<3.07E-02	<2.93E-02	<3.04E-02	<3.05E-02	<3.15E-02	<2.96E-02	<2.62E-02
	lb/hr	1.92E-10	<3.45E-09	<3.30E-09	<3.34E-09	<3.34E-09	<3.45E-09	<3.30E-09	<2.91E-09
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB-169)	ng	0.00302	0.00638	<0.123	<0.123	<0.123	<0.123	<0.123	<0.0892
	ng/dscm	6.10E-04	1.34E-03	<2.47E-02	<2.56E-02	<2.53E-02	<2.64E-02	<2.48E-02	1.84E-02
	ng/dscm ¹	4.96E-04	1.09E-03	<2.00E-02	<2.08E-02	<2.08E-02	<2.15E-02	<2.02E-02	1.50E-02
	lb/hr	5.63E-11	1.22E-10	<2.25E-09	<2.28E-09	<2.28E-09	<2.36E-09	<2.25E-09	1.66E-09
2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB-170)	ng	0.00901	0.0233	0.00509	0.0127	0.0116	0.0197	0.0129	0.0135
	ng/dscm	1.82E-03	4.88E-03	1.02E-03	2.64E-03	2.39E-03	4.23E-03	2.60E-03	2.80E-03
	ng/dscm ¹	1.48E-03	3.97E-03	8.29E-04	2.14E-03	1.96E-03	3.45E-03	2.12E-03	2.28E-03
	lb/hr	1.68E-10	4.46E-10	9.33E-11	2.36E-10	2.15E-10	3.78E-10	2.36E-10	2.53E-10
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-180)	ng	0.0302	0.0294	0.187	0.0376	0.0327	0.0149	0.0237	0.0508
	ng/dscm	6.10E-03	6.16E-03	3.75E-02	7.82E-03	6.73E-03	3.20E-03	4.78E-03	1.03E-02
	ng/dscm ¹	4.96E-03	5.01E-03	3.05E-02	6.35E-03	5.53E-03	2.61E-03	3.90E-03	8.41E-03
	lb/hr	5.63E-10	5.63E-10	3.43E-09	6.98E-10	6.07E-10	2.86E-10	4.34E-10	9.40E-10

TABLE 6-2 (CONTINUED)
POLYCHLORINATED BIPHENYLS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB-187)	ng	0.00960	0.0244	0.246	0.0246	0.0199	0.00826	0.0122	0.0493
	ng/dscm	1.94E-03	5.11E-03	4.94E-02	5.12E-03	4.10E-03	1.77E-03	2.46E-03	9.98E-03
	ng/dscm ¹	1.58E-03	4.16E-03	4.01E-02	4.15E-03	3.37E-03	1.45E-03	2.01E-03	8.11E-03
	lb/hr	1.79E-10	4.67E-10	4.51E-09	4.57E-10	3.69E-10	1.59E-10	2.24E-10	9.09E-10
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)	ng	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147	<0.147
	ng/dscm	<2.97E-02	<3.08E-02	<2.95E-02	<3.06E-02	<3.03E-02	<3.15E-02	<2.97E-02	<3.03E-02
	ng/dscm ¹	<2.42E-02	<2.51E-02	<2.40E-02	<2.48E-02	<2.49E-02	<2.57E-02	<2.42E-02	<2.47E-02
	lb/hr	<2.74E-09	<2.82E-09	<2.69E-09	<2.73E-09	<2.73E-09	<2.82E-09	<2.69E-09	<2.75E-09
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB-195)	ng	<0.159	<0.159	0.0221	<0.159	<0.159	<0.159	<0.159	<0.139
	ng/dscm	<3.21E-02	<3.33E-02	4.40E-03	<3.31E-02	<3.27E-02	<3.41E-02	<3.21E-02	<2.88E-02
	ng/dscm ¹	<2.61E-02	<2.71E-02	3.60E-03	<2.68E-02	<2.69E-02	<2.78E-02	<2.62E-02	<2.35E-02
	lb/hr	<2.96E-09	<3.05E-09	4.05E-10	<2.95E-09	<2.95E-09	<3.05E-09	<2.91E-09	<2.61E-09
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB-206)	ng	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171	<0.171
	ng/dscm	<3.45E-02	<3.58E-02	<3.43E-02	<3.56E-02	<3.52E-02	<3.67E-02	<3.45E-02	<3.52E-02
	ng/dscm ¹	<2.81E-02	<2.91E-02	<2.79E-02	<2.89E-02	<2.89E-02	<2.99E-02	<2.81E-02	<2.87E-02
	lb/hr	<3.19E-09	<3.28E-09	<3.13E-09	<3.18E-09	<3.17E-09	<3.28E-09	<3.13E-09	<3.19E-09
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (PCB-209)	ng	0.0302	0.0231	<0.138	0.0171	<0.138	0.0102	0.0174	<0.0534
	ng/dscm	6.10E-03	4.84E-03	<2.77E-02	3.56E-03	<2.84E-02	2.19E-03	3.51E-03	<1.09E-02
	ng/dscm ¹	4.96E-03	3.94E-03	<2.25E-02	2.89E-03	<2.34E-02	1.79E-03	2.86E-03	<8.90E-03
	lb/hr	5.63E-10	4.42E-10	<2.53E-09	3.18E-10	<2.56E-09	1.96E-10	3.19E-10	<9.90E-10

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-3
HYDROCARBONS RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrocarbons (as propane)	ppmv dry	0.150	0.193	0.0107	0.0390	0.0305	0.0488	0.00231	0.0676
	ppmv dry ¹	0.122	0.157	0.00870	0.0317	0.0250	0.0398	0.00188	0.0551
	lb/hr	0.0253	0.0323	0.00180	0.00639	0.00503	0.00801	0.000385	0.0113

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-4
HYDROGEN CYANIDE RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrogen cyanide	ppmv dry	2.60	2.72	2.39	2.60	2.31	2.40	2.29	2.50
	ppmv dry ¹	2.12	2.21	1.94	2.11	1.90	1.96	1.87	2.04
	lb/hr	0.270	0.279	0.246	0.261	0.234	0.241	0.234	0.255

¹ Emission results are corrected to seven percent oxygen.

TABLE 6-5
CARBON MONOXIDE RESULTS

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Carbon monoxide	ppmv dry ¹	1.99	1.94	1.93	1.92	1.94	1.95	2.01	1.95
Oxygen	% vol dry	3.79	3.78	3.78	3.77	3.94	3.85	3.85	3.82

¹ Data represents the maximum hourly rolling average corrected to seven percent oxygen.

Appendix A: SITE-SPECIFIC TEST PLAN



BASF CORPORATION
McINTOSH, ALABAMA

HAZARDOUS WASTE COMBUSTOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

INFORMATION COLLECTION REQUEST SITE-SPECIFIC TEST PLAN FOR BOILER No. 7

MAY 2024

Coterie ENVIRONMENTAL

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TABLE OF CONTENTS

1.0	Introduction	1-1
1.1	Facility Overview	1-1
1.2	Hazardous Waste Combustor Overview	1-2
1.3	Test Overview	1-2
1.4	Test Plan Organization	1-3
2.0	Feedstream Characterization.....	2-1
2.1	Waste Liquid Fuel.....	2-1
2.2	Storage Tank Vent Gas	2-2
2.3	Natural Gas	2-2
2.4	Waste Chosen for the Test.....	2-2
3.0	Engineering Description	3-1
3.1	Hazardous Waste Storage System	3-1
3.2	Waste and Fuel Delivery Systems	3-2
3.3	Boiler	3-2
3.4	Air Pollution Control System	3-3
3.5	Stack	3-3
4.0	Test Operations.....	4-1
4.1	Normal Operating Conditions	4-1
4.2	Test Condition	4-1
4.3	Test Materials and Quantities.....	4-2
4.4	Test Monitoring	4-2
4.5	Test Schedule	4-3
5.0	Sampling and Analysis.....	5-1
5.1	Waste Liquid Fuel Sampling and Analysis	5-1
5.2	Storage Tank Vent Gas Sampling and Analysis	5-1
5.3	Natural Gas Sampling and Analysis.....	5-2
5.4	Stack Gas Sampling and Analysis	5-2

LIST OF TABLES

Table 2-1	Waste Liquid Fuel.....	2-1
Table 2-2	Storage Tank Vent Gas	2-2
Table 4-1	Average Values for Operating Parameters	4-1
Table 4-2	Target Test Condition.....	4-2
Table 4-3	Test Material Quantities	4-2
Table 4-4	Monitored and Reported Operating Parameters	4-3
Table 4-5	Test Schedule	4-3
Table 5-1	Waste Liquid Fuel Sampling and Analysis	5-1

Table 5-2	Stack Gas Sampling and Analysis	5-2
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LIST OF FIGURES

Figure 3-1	Boiler No. 7 Schematic	3-1
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LIST OF APPENDICES

Appendix A:	Quality Assurance Project Plan	
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1.0 INTRODUCTION

This site-specific test plan is being submitted by BASF Corporation (BASF) for a hazardous waste fired boiler located at BASF's McIntosh, Alabama, facility. This unit is designated as Boiler No. 7. An emission test will be performed for Boiler No. 7 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE.

This plan describes the testing to be conducted for Boiler No. 7 for the purpose of collecting data on hazardous air pollutants (HAPs). In accordance with the ICR, this test plan will not be submitted for approval prior to the testing. It will be submitted as an appendix of the emission test report.

1.1 FACILITY OVERVIEW

The BASF McIntosh site is located in McIntosh, Washington County, Alabama just east of Highway 43 where the Tombigbee River is channeled into Three Rivers Lake. The facility is composed of two production units. The first unit, the Antioxidant (AO) Production Unit, produces a group of products that counteract the effects of heat and time in plastics. The second unit, the Light Stabilizers Unit, produces two main product families – Tinuvin and Hindered Amine Light Stabilizers (HALS). At this time, the BASF facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The street address and identification number of the BASF McIntosh site are:

BASF Corporation
McIntosh, Alabama Site
1379 Ciba Road
McIntosh, Alabama 36553
EPA ID No. ALD 001 221 902

All correspondence should be directed to the following facility contact:

Wayne Goldman
EHS Specialist
BASF Corporation
1379 Ciba Road
McIntosh, Alabama 36553
Phone: 251-436-2005
Email: Louis.Goldman@basf.com

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

BASF operates Boiler No. 7 to provide energy recovery as steam while destroying liquid waste streams generated in the production processes. Boiler No. 7 is fired on a mixture of natural gas, storage tank vent gas, and liquid hazardous waste. The liquid hazardous waste that is fired in Boiler No. 7 is identified as waste liquid fuel. The boiler is equipped with an economizer, a flue gas recirculation (FGR) system, a forced draft fan, and a stack.

1.3 TEST OVERVIEW

This emission test is designed to provide the information requested in USEPA's ICR. One test condition will be performed for the boiler. Boiler No. 7 will be operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boiler's current operating parameter limits (OPLs)).

The ICR requires emission testing for the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC);
- Hydrogen fluoride (HF);
- Hydrogen bromide (HBr); and
- Hydrogen cyanide.

Feedstream (both hazardous and non-hazardous) analyses are also required for higher heating value and fluorine and bromine contents for each test run.

BASF submitted a request to USEPA to waive the emission testing requirement for HF and HBr. In addition, BASF requested to waive the feedstream analytical requirement for fluorine and bromine contents. These waivers were requested because BASF does not use any fluorinated or brominated compounds in any of the processes that generate the boiler feedstreams. Therefore, the feedstreams should not contain any fluorine or bromine. In a response dated March 12, 2024, USEPA approved the waiver requests. Therefore, this emission test will not include stack gas sampling for HF and HBr and will not include feedstream analyses for fluorine and bromine contents.

This emission test is being coordinated by BASF personnel, who will provide oversight of the boiler operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) is responsible for the test plan and report development. Alliance Technical Group, LLC, (ATG) will perform the stack sampling for the test program. ATG will be responsible for all stack gas and waste liquid fuel samples collected during the test program, with oversight by BASF and Coterie. The stack gas and waste liquid fuel samples will be sent to Eurofins Knoxville (Eurofins) for analysis. Additional

information on the project team roles and responsibilities is provided in the quality assurance project plan (QAPP) in Appendix A.

The emission test will be conducted during the week of June 10, 2024. The test will consist of seven replicate test runs. The testing is expected to take four days. The test report will be submitted by August 30, 2024.

1.4 TEST PLAN ORGANIZATION

This plan has been prepared in accordance with the ICR. The remaining sections of the plan provide the following information:

- Section 2.0 presents information on the boiler's feedstreams;
- Section 3.0 presents a detailed engineering description of Boiler No. 7;
- Section 4.0 presents a description of the test operations;
- Section 5.0 presents a summary of the test sampling and analysis procedures; and
- Appendix A includes the QAPP.

2.0 FEEDSTREAM CHARACTERIZATION

Boiler No. 7 is fired on a mixture of natural gas, storage tank vent gas, and liquid hazardous waste. The liquid hazardous waste fired in Boiler No. 7 is identified as waste liquid fuel.

2.1 WASTE LIQUID FUEL

The waste liquid fuel is comprised of two liquid components. These two components are identified as Irganox Methanol Waste and HALS Waste Solvents.

Irganox Methanol Waste is comprised of organic materials produced in the Irganox unit. The primary components of the waste are methanol and iso-octanols. This waste carries the 40 CFR Part 261 hazardous waste codes of D001 (ignitability), F003, and F005. Irganox Methanol Waste is transferred to the Hazardous Waste Storage Tanks (UT-V-813 and 814) via tank trucks.

HALS Waste Solvents are comprised of organic materials produced in the HALS unit (Area 20). The primary components of the waste are o-xylene, cyclohexane, tert-butyl alcohol, methanol, and n-octane. This waste carries the 40 CFR Part 261 hazardous waste codes of D001 (ignitability) and F003. HALS Waste Solvents are transferred to the Hazardous Waste Storage Tanks (UT-V-813 and 814) via tank trucks.

The two components are similar and are completely compatible with each other. They are blended in the two Hazardous Waste Storage Tanks to create the waste liquid fuel that is burned in the boiler. Waste analyses for compliance purposes are only performed on the waste liquid fuel in the Hazardous Waste Storage Tanks. This is the only waste stream fed to the boiler. Table 2-1 presents the typical characteristics of the waste liquid fuel. The higher heating value is provided in British thermal units per pound (Btu/lb), the metals, chlorine, and ash contents are provided in milligrams per kilogram (mg/kg), and the organic HAP concentrations are provided in percent by weight (% wt). The waste liquid fuel does not contain any PCBs based on process knowledge.

TABLE 2-1
WASTE LIQUID FUEL

PARAMETER	UNITS	TYPICAL
Higher heating value	Btu/lb	11,000 – 19,000
Metals:		
Cadmium	mg/kg	<0.002
Chromium	mg/kg	<0.1
Lead	mg/kg	<0.01
Mercury	mg/kg	<0.01

TABLE 2-1 (CONTINUED)
WASTE LIQUID FUEL

PARAMETER	UNITS	TYPICAL
Chlorine	mg/kg	<100
Ash	mg/kg	<300
Organic hazardous air pollutants:		
Methanol	% wt	0 – 70
o-Xylene	% wt	1 – 45

2.2 STORAGE TANK VENT GAS

Non-hazardous storage tank vent gas is also fed to the boiler. This stream consists of various organic compounds as well as nitrogen from venting of the two Hazardous Waste Storage Tanks. Table 2-2 provides information on the storage tank vent gas characteristics. The feed rate is provided in standard cubic feet per minute (scfm), the higher heating value is provided in Btu/lb, the metals, chlorine, and ash contents are provided in mg/kg, and the organic HAP concentrations are provided in percent by volume (% vol).

TABLE 2-2
STORAGE TANK VENT GAS

PARAMETER	UNITS	TYPICAL
Feed rate	scfm	40 – 600
Higher heating value	Btu/lb	0 – 2,000
Cadmium, chromium, lead, and mercury	mg/kg	Trace
Chlorine	mg/kg	Trace
Ash	mg/kg	Trace
Organic hazardous air pollutants:		
Methanol	% vol	0 – 2
o-Xylene	% vol	0 – 9

2.3 NATURAL GAS

Pipeline quality natural gas is used as the main fuel for Boiler No. 7. The natural gas is not expected to contain any HWC NESHA regulated constituents in greater than trace quantities.

2.4 WASTE CHOSEN FOR THE TEST

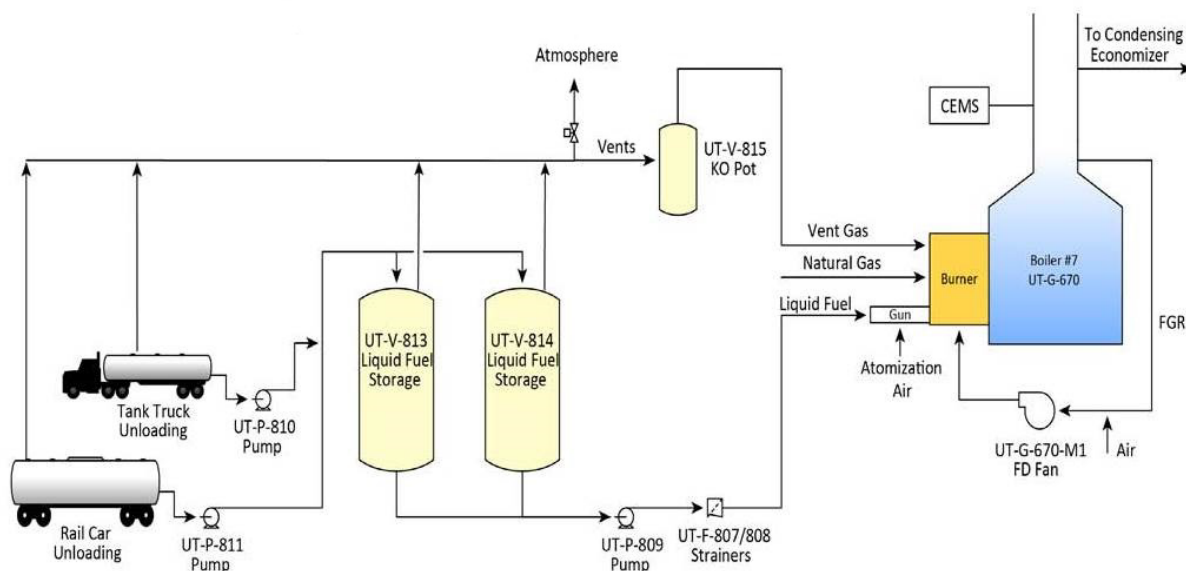
Boiler No. 7 only combusts one liquid hazardous waste stream identified as the waste liquid fuel. This stream will be fed to Boiler No. 7 during the testing.

3.0 ENGINEERING DESCRIPTION

BASF operates Boiler No. 7 to provide energy recovery as steam while destroying liquid waste streams generated in the production processes. Boiler No. 7 is designed for a nominal heat input of 143.7 million British thermal units per hour (MMBtu/hr) and is fired on a mixture of waste liquid fuel, storage tank vent gas, and natural gas. Natural gas is the primary fuel for the boiler.

The main components of the boiler are a firebox, an economizer, an FGR system, a forced draft fan, and a stack. Boiler No. 7 uses a low-nitrogen oxides (NO_x) burner and the FGR system for control of NO_x emissions. No other air pollution control equipment is installed on the unit. Boiler No. 7 is a forced draft unit, and the primary motive force to move the combustion gas through the system is provided by the combustion air fan. Figure 3-1 provides a general process schematic diagram of Boiler No. 7.

**FIGURE 3-1
BOILER NO. 7 SCHEMATIC**



3.1 HAZARDOUS WASTE STORAGE SYSTEM

The waste liquid fuel is transferred from the production processes to two Hazardous Waste Storage Tanks (UT-V-813 and 814) via tank trucks. Each Hazardous Waste Storage Tank has a capacity of 31,000 gallons. The waste liquid fuel is stored in the Hazardous Waste Storage Tanks at ambient temperature. The vent gas from the Hazardous Waste Storage Tanks is sent to Boiler No. 7 for emissions control.

3.2 WASTE AND FUEL DELIVERY SYSTEMS

The waste liquid fuel is fed in batch fashion from one of the Hazardous Waste Storage Tanks to Boiler No. 7 once a certain level is achieved in the accumulation tank. The waste liquid fuel is pumped to Boiler No. 7 through the Hazardous Waste Feed Pump (UT-P-809). The waste liquid fuel flows through the flow meter and feed line, which feeds a single waste gun located in the center of the burner air register. The waste liquid fuel is atomized with air prior to combustion. The feed line from the Hazardous Waste Feed Pump is equipped with control valves for flow control and for isolation to ensure proper control and shutdown of the liquid feed.

Natural gas is utilized as the primary fuel in Boiler No. 7. Natural gas is fed to the burner through a four-inch line. The natural gas feed line is equipped with a flow meter, control valve loop, and a double block and bleed station for proper control and shutdown of the feed.

The non-hazardous storage tank vent gas is routed to Boiler No. 7 for emissions control. Storage tank vent gas is fed to the burner through a knockout pot (UT-V-815) and a flame arrestor. The vent gas feed line is equipped with a flow meter, control valve loop, and a double block and bleed station for proper control and shutdown of the feed.

3.3 BOILER

Boiler No. 7 is a Cleaver Brooks D-type water-tube boiler, Model Number CP-NB-400D. The boiler is equipped with one COEN® DELTA-NOX low-NO_x burner, Model Number DNX-32. The burner is factory-mounted in the windbox.

Combustion air is supplied to the boiler through a Chicago Blower Corporation forced draft fan, Model Number DD/5500,S/4900,A/8S. The fan has a capacity of 36,227 actual cubic feet per minute (acfm) of air. The forced draft fan provides the primary motive force for the flue gas through the system.

The boiler is also equipped with an FGR system to reduce the formation of NO_x. Approximately five percent of the flue gas from the boiler outlet is recirculated to the combustion chamber to reduce the combustion zone temperature to minimize the formation of thermal NO_x.

The heat from the combustion of the feed materials is transferred to the boiler tubes to facilitate the production of steam from incoming feed water. Heat transfer occurs in two sections of the boiler: the convection section and the economizer. The combustion gas passes through the convection section of the boiler prior to entering the economizer. Steam is generated in the convection section of the boiler, and the economizer section of the boiler is used to remove any additional heat from the combustion gas to preheat the incoming boiler feed water.

3.4 AIR POLLUTION CONTROL SYSTEM

Boiler No. 7 is not equipped with any air pollution control equipment other than the FGR system described previously.

3.5 STACK

Boiler No. 7 is equipped with a stack that discharges approximately 75 feet above ground level. The inner diameter of the stack outlet is 3.83 feet. The stack is equipped with test ports for stack sampling.

4.0 TEST OPERATIONS

BASF intends to perform one test condition to collect the data requested in the ICR. This section of the plan establishes the boiler operations that will be demonstrated during the testing. In addition, the amount of waste needed for testing, the monitoring data to be collected during testing, and a schedule for the testing are presented here.

4.1 NORMAL OPERATING CONDITIONS

The ICR requested that Boiler No. 7 be operated in a normal and representative manner during the emission test. To establish the operating conditions for the test, operating data from April 2023 through March 2024 was reviewed. Data for the following operating parameters was reviewed:

- Combustion chamber temperature;
- Stack gas flow rate; and
- Total hazardous waste feed rate.

Table 4-1 presents the average value and the OPL for each parameter. The combustion chamber temperature is monitored in degrees Fahrenheit (°F), the stack gas flow rate is monitored in thousand standard cubic feet per minute (kscfm), and the total hazardous waste feed rate is monitored in pounds per hour (lb/hr).

TABLE 4-1
AVERAGE VALUES FOR OPERATING PARAMETERS

PARAMETER	UNITS	AVERAGE VALUE ¹	OPERATING PARAMETER LIMIT	LIMIT TYPE
Combustion chamber temperature	°F	1,514	1,229	Minimum
Stack gas flow rate	kscfm	22.2	46	Maximum
Total hazardous waste feed rate	lb/hr	1,308	3,646	Maximum

¹ Values represent the averages of hazardous waste operating data collected for April 2023 through March 2024.

4.2 TEST CONDITION

The test condition is designed to demonstrate operations of Boiler No. 7 at normal and representative conditions. The target conditions were set within the averages presented in Table 4-1 and the maximum or minimum OPL, as appropriate. The storage tank vent gas feed rate and the natural gas feed rate, which are monitored in scfm and thousand standard cubic feet per hour (kscfh), respectively, will be allowed to vary as needed to achieve the other target conditions. All operating conditions presented in

this plan are calculated values; the actual conditions observed during the test may vary slightly from these values.

A summary of the target operating conditions is provided in Table 4-2.

TABLE 4-2
TARGET TEST CONDITION

OPERATING PARAMETER	UNITS	TARGETS	OPERATING PARAMETER LIMIT
Combustion chamber temperature	°F	1,450	1,229
Stack gas flow rate	kscfm	30	46
Total hazardous waste feed rate	lb/hr	1,500	3,646
Storage tank vent gas feed rate	scfm	Variable	- - -
Natural gas feed rate	kscfh	Variable	- - -

4.3 TEST MATERIALS AND QUANTITIES

Table 4-3 summarizes the quantity of materials required to conduct the testing. Seven runs will be carried out for the test condition. Each test run will require approximately 4.5 hours. A maximum of two runs will be performed per day. An additional 30 minutes of run time will be required for each day of testing to establish the steady state conditions before the start of the test runs, and approximately 60 minutes will be required between consecutive test runs. Therefore, for the purpose of calculating test quantities, a total of 36.5 hours has been used. We have also added approximately 40 percent to each total to allow for unforeseen delays.

TABLE 4-3
TEST MATERIAL QUANTITIES

MATERIAL	UNITS	QUANTITY
Waste liquid fuel	pounds	80,000

4.4 TEST MONITORING

Operating data will be reported for each test run. Table 4-4 presents the operating data that will be reported for the testing. All one-minute average values will be reported for each parameter for each run. Run averages, minimums, and maximums will be determined.

TABLE 4-4
MONITORED AND REPORTED OPERATING PARAMETERS

INSTRUMENT TAG NUMBER	DESCRIPTION
TT-61050	Combustion chamber temperature
AIT-60819E	Stack gas flow rate
FT60818	Steam production rate
FT-60840	Total hazardous waste feed rate
FT-60852	Storage tank vent gas feed rate
FT-60800	Natural gas feed rate
PIT-60837	Atomizing fluid pressure

In addition to the operating parameters listed in Table 4-4, BASF will also report one-minute average and hourly rolling average data for the oxygen-corrected carbon monoxide (CO) emission concentration from the boiler's continuous emissions monitoring systems (CEMS).

4.5 TEST SCHEDULE

The sampling effort will require one day for setup and four days for testing. During setup, sampling equipment and instruments will be prepared and calibrated, supplies will be brought onsite, and sampling locations will be prepared. The seven test runs will be performed over the four testing days. Although the onsite activities will dictate the actual timing, a preliminary schedule is presented in Table 4-5.

TABLE 4-5
TEST SCHEDULE

DAY	START	STOP	ACTIVITY
1	---	---	Setup of sampling equipment and pre-test meetings
2	08:00	08:30	Begin feeding designated materials at target rates and establish steady-state operating conditions
	08:30	09:30	Perform cyclonic flow check and preliminary flow traverse
	09:30	14:00	Run 1
	14:00	15:00	Set-up of sampling equipment for Run 2
	15:00	19:30	Run 2
3	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 3
	08:30	13:00	Run 3
	13:00	14:00	Set-up of sampling equipment for Run 4
	14:00	18:30	Run 4

TABLE 4-5 (CONTINUED)
TEST SCHEDULE

DAY	START	STOP	ACTIVITY
4	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 5
	08:30	13:00	Run 5
	13:00	14:00	Set-up of sampling equipment for Run 6
	14:00	18:30	Run 6
5	08:00	08:30	Begin feeding designated materials at target rates, establish steady-state operating conditions, and setup sampling equipment for Run 7
	08:30	13:00	Run 7
	13:00	- - -	Break down sampling equipment

5.0 SAMPLING AND ANALYSIS

The test condition will consist of seven replicate test runs. For each run, samples will be collected using procedures described in the QAPP found in Appendix A. Since most of the proposed methods are standard reference methods, only brief descriptions are presented. Sample holding times will be consistent with the analytical requirements for the methods used.

5.1 WASTE LIQUID FUEL SAMPLING AND ANALYSIS

Waste liquid fuel samples will be collected during each run. The waste sampling location will be clearly labeled during the test. Table 5-1 summarizes the waste liquid fuel sampling and analysis procedures.

TABLE 5-1
WASTE LIQUID FUEL SAMPLING AND ANALYSIS

WASTE	SAMPLING METHOD	SAMPLING AMOUNT/ FREQUENCY	ANALYTICAL PARAMETER	ANALYTICAL METHOD ¹
Waste liquid fuel	Tap sampling	Approximately 150 mL into two separate bottles at beginning, middle, and end of each test run	Higher heating value	ASTM Method D240

¹ ASTM refers to ASTM International.

BASF personnel will collect the waste liquid fuel samples from a tap located on the feed line. The tap will be flushed initially (allowed to flow briefly) before the samples are collected. Samples will be collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of the waste stream will be collected into two separate bottles. At the end of the run, each sample bottle will have approximately 450 mL of sample. One sample will be sent to the laboratory for analysis, and one sample will be sent to the laboratory as a backup.

The waste liquid fuel samples will be analyzed to characterize the waste stream. Higher heating value of the waste liquid fuel will be determined for each test run.

5.2 STORAGE TANK VENT GAS SAMPLING AND ANALYSIS

The storage tank vent gas will not be sampled and analyzed during the test. Process knowledge is used to characterize the storage tank vent gas. Storage tank vent gas characterization information is provided in Section 2.2.

5.3 NATURAL GAS SAMPLING AND ANALYSIS

The natural gas will not be sampled and analyzed during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

5.4 STACK GAS SAMPLING AND ANALYSIS

The stack gas will be monitored for HC emissions and sampled for PAH, PCB, and hydrogen cyanide emissions during the test. In addition, the facility's CEMS continuously monitor the stack gas CO concentration. The following monitoring/sampling methods will be used:

- USEPA Methods 1, 2, 3A, and 4 for determination of stack sampling traverse points, gas flow rate, composition, and moisture content;
- USEPA Method 25A, a portable CEMS operated by the stack sampling contractor, to monitor the concentrations of HC in the stack gas;
- USEPA Method 23 for measurement of PAH and PCB emissions;
- USEPA Method 320 for measurement of hydrogen cyanide emissions; and
- The facility's CEMS to monitor the concentrations of CO and oxygen in the stack gas.

Table 5-2 summarizes the stack gas samples to be taken, the parameters to be measured, and the frequency of measurement.

TABLE 5-2
STACK GAS SAMPLING AND ANALYSIS

SAMPLING METHOD ¹	SAMPLING DURATION	ANALYTICAL PARAMETER	ANALYTICAL METHOD ¹
USEPA Methods 1, 2, 3A, and 4	Not applicable	Traverse points, stack flow, composition, and moisture	Not applicable
USEPA Method 25A (Portable CEMS)	Continuous	Hydrocarbons	USEPA Method 25A (Portable CEMS)
USEPA Method 23	240 minutes (minimum)	Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23
USEPA Method 320	60 minutes (minimum)	Hydrogen cyanide	USEPA Method 320
Facility CEMS (USEPA Performance Specification 4B)	Continuous	Carbon monoxide and oxygen	Facility CEMS (USEPA Performance Specification 4B)

¹ USEPA Method refers to New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60. USEPA Performance Specification refers to New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

Appendix A: QUALITY ASSURANCE PROJECT PLAN



BASF CORPORATION
McINTOSH, ALABAMA

HAZARDOUS WASTE COMBUSTOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

INFORMATION COLLECTION REQUEST QUALITY ASSURANCE PROJECT PLAN FOR BOILER No. 7

MAY 2024

Coterie ENVIRONMENTAL

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TABLE OF CONTENTS

1.0	Introduction	1-1
1.1	Facility Overview	1-1
1.2	Hazardous Waste Combustor Overview	1-2
1.3	Test Overview	1-2
1.4	Quality Assurance Project Plan Organization	1-2
2.0	Organization of Personnel, Responsibilities, and Qualifications	2-1
2.1	Emission Test Manager	2-2
2.2	Offsite Project Coordinator	2-2
2.3	Stack Testing Director	2-2
2.4	Field Team	2-2
2.5	Laboratory	2-2
3.0	Sampling Procedures	3-1
3.1	Waste Liquid Fuel Sampling	3-1
3.2	Storage Tank Vent Gas Sampling	3-1
3.3	Natural Gas Sampling	3-1
3.4	Stack Gas Sampling	3-1
3.4.1	Sampling Point Determination – USEPA Method 1	3-2
3.4.2	Flue Gas Velocity and Volumetric Flow Rate – USEPA Method 2	3-2
3.4.3	Flue Gas Composition and Molecular Weight – USEPA Method 3A	3-2
3.4.4	Flue Gas Moisture Content – USEPA Method 4	3-3
3.4.5	Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls – USEPA Method 23	3-3
3.4.6	Hydrocarbons – USEPA Method 25A	3-5
3.4.7	Hydrogen Cyanide – USEPA Method 320	3-5
3.4.8	Carbon Monoxide and Oxygen – USEPA Performance Specification 4B	3-6
3.5	Sampling Location	3-6
3.6	Sampling Quality Control Procedures	3-7
4.0	Sample Handling and Documentation	4-1
4.1	Field Sampling Operations	4-1
4.2	Field Laboratory Operations	4-2
5.0	Analytical Procedures	5-1
6.0	Data Quality Objectives	6-1
6.1	Quality Control Parameters	6-1
6.1.1	Precision	6-3
6.1.2	Accuracy	6-4
6.1.3	Representativeness	6-4
6.1.4	Comparability	6-4
6.1.5	Completeness	6-4

6.2	Evaluation of Contamination Effects	6-5
6.3	Performance Audits	6-6
6.4	Corrective Action	6-6
6.4.1	Equipment Failure.....	6-6
6.4.2	Analytical Deviations.....	6-7
6.4.3	Contamination	6-7
6.4.4	Procedural Deviations.....	6-7
7.0	Calibration Procedures and Preventative Maintenance.....	7-1
7.1	Sampling Equipment.....	7-1
7.1.1	Pitot Tubes	7-3
7.1.2	Differential Pressure Gauges	7-3
7.1.3	Digital Temperature Indicator	7-3
7.1.4	Dry Gas Meter and Orifice	7-3
7.1.5	Barometer	7-3
7.1.6	Nozzle.....	7-4
7.1.7	Continuous Emissions Monitors	7-4
7.1.8	Fourier Transform Infrared Analyzers	7-4
7.2	Analytical Equipment.....	7-4
7.3	Preventative Maintenance	7-5
7.3.1	Sampling Equipment.....	7-5
7.3.2	Analytical Equipment.....	7-6
8.0	Data Reduction, Validation, and Reporting	8-1
8.1	Data Reduction	8-1
8.2	Data Validation	8-1
8.2.1	Review of Field Documentation.....	8-2
8.2.2	Laboratory Review of Data	8-2
8.2.3	Evaluation of Data Quality.....	8-2
8.3	Data Reporting.....	8-2
8.3.1	Management of Non-Detects	8-3
8.3.2	Background/Blank Correction.....	8-3
8.3.3	Rounding and Significant Figures.....	8-3
9.0	Quality Assurance Reports.....	9-1
10.0	References	10-1

LIST OF TABLES

Table 3-1	Waste Liquid Fuel Sampling.....	3-1
Table 3-2	Stack Gas Sampling	3-2
Table 4-1	Sample Custody Documentation Requirements.....	4-1
Table 5-1	Preparation and Analysis Procedures for Waste Liquid Fuel Samples	5-1
Table 5-2	Preparation and Analysis Procedures for Stack Gas Samples.....	5-1

1.0 INTRODUCTION

This quality assurance project plan (QAPP) is being submitted by BASF Corporation (BASF) for the hazardous waste fired boiler located at BASF's McIntosh, Alabama, facility. This unit is designated as Boiler No. 7. An emission test will be performed for Boiler No. 7 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE. This QAPP describes the quality assurance (QA) and quality control (QC) program associated with the ICR testing to be conducted for Boiler No. 7. In accordance with the ICR, this QAPP will not be submitted for approval prior to the testing. It will be submitted as an appendix of the emission test report

1.1 FACILITY OVERVIEW

The BASF McIntosh site is located in McIntosh, Washington County, Alabama just east of Highway 43 where the Tombigbee River is channeled into Three Rivers Lake. The facility is composed of two production units. The first unit, the Antioxidant (AO) Production Unit, produces a group of products that counteract the effects of heat and time in plastics. The second unit, the Light Stabilizers Unit, produces two main product families – Tinuvin and Hindered Amine Light Stabilizers (HALS). At this time, the BASF facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The street address and identification number of the BASF McIntosh site are:

BASF Corporation
McIntosh, Alabama Site
1379 Ciba Road
McIntosh, Alabama 36553
EPA ID No. ALD 001 221 902

All correspondence should be directed to the following facility contact:

Wayne Goldman
EHS Specialist
BASF Corporation
1379 Ciba Road
McIntosh, Alabama 36553
Phone: 251-436-2005
Email: louis.goldman@basf.com

1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

BASF operates Boiler No. 7 to provide energy recovery as steam while destroying liquid waste streams generated in the production processes. Boiler No. 7 is fired on a mixture of natural gas, storage tank vent gas, and liquid hazardous waste. The liquid hazardous waste that is fired in Boiler No. 7 is identified as waste liquid fuel. The boiler is equipped with an economizer, a flue gas recirculation (FGR) system, a forced draft fan, and a stack. More information regarding the design and operation of Boiler No. 7 can be found in Section 3.0 of the site-specific test plan.

1.3 TEST OVERVIEW

The emission test is designed to provide the information requested in USEPA's ICR. One test condition will be performed for the boiler. Boiler No. 7 will be operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the boiler's current operating parameter limits (OPLs)).

The ICR emission testing will include the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC); and
- Hydrogen cyanide.

The waste liquid fuel will also be analyzed for higher heating value for each test run.

This emission test is being coordinated by BASF personnel, who will provide oversight of the boiler operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) is responsible for the test plan and report development. Alliance Technical Group, LLC, (ATG) will perform the stack sampling for the test program. ATG will be responsible for all stack gas and waste liquid fuel samples collected during the test program, with oversight by BASF and Coterie. The stack gas and waste liquid fuel samples will be sent to Eurofins Knoxville (Eurofins) for analysis.

1.4 QUALITY ASSURANCE PROJECT PLAN ORGANIZATION

This QAPP has been prepared following the USEPA document entitled *Preparation Aids for the Development of Category I Quality Assurance Project Plan*. The QAPP will serve as an essential guidance by which the emission test will be performed. The QAPP defines all aspects of QA/QC procedures and establishes sampling and analytical quality indicators that will demonstrate achievement of the test objectives. Additionally, this QAPP defines precision and accuracy criteria for the required measurements that will be used to demonstrate that all associated test data is of sufficient quality to satisfy the requirements of the USEPA's ICR. The remaining sections of the QAPP provide the following information:

- Section 2.0 presents information on the emission test project team;

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- Section 3.0 describes the emission test sampling procedures;
 - Section 4.0 presents sample handling and documentation information;
 - Section 5.0 discusses the emission test analytical procedures;
 - Section 6.0 presents the emission test data quality objectives;
 - Section 7.0 discusses calibration procedures and preventative maintenance;
 - Section 8.0 discusses data reduction, validation, and reporting procedures;
 - Section 9.0 discusses QA reports;
 - Section 10.0 includes a list of reference documents for the QAPP; and
 - Attachment A provides a list of analytes for the testing.

2.0 ORGANIZATION OF PERSONNEL, RESPONSIBILITIES, AND QUALIFICATIONS

BASF and their contractors will have specific and unique duties in the implementation of the ICR emission test project. The project team duties are summarized below. A project organization flow chart is provided in Figure 2-1. The contractors selected for this project have established training programs that identify, ensure, and document that the personnel assigned to their tasks have appropriate knowledge, skills, training, and certifications to perform their duties. Any key personnel that become unavailable will be replaced by equally qualified personnel prior to test mobilization. This QAPP will be distributed to key project personnel for review prior to the emission test.

BASF, through the Emission Test Manager and operations crew, will:

- Procure and prepare waste feeds;
- Operate Boiler No. 7 at the designated conditions;
- Collect waste samples; and
- Report all feed rates and Boiler No. 7 process parameters.

Coterie, through the Offsite Project Coordinator, will:

- Prepare the sit-specific test plan and QAPP;
- Provide oversight for the project;
- Perform a detailed QA review of all analytical results; and
- Prepare the final report.

ATG, through the Stack Testing Director and stack sampling field team, will:

- Perform stack gas sampling;
- Implement the QA program for the stack sampling and analysis;
- Provide custody of all samples generated by the test efforts;
- Transport the samples to the laboratories for analysis; and
- Prepare the stack sampling report and supporting documentation.

The laboratory will:

- Perform sample analyses;
- Perform method and QAPP specified QA/QC; and
- Provide a complete laboratory report with a detailed case narrative.

2.1 EMISSION TEST MANAGER

Scott Holston will serve as the BASF Emission Test Manager. Mr. Holston will be responsible for directing BASF personnel in the operations of Boiler No. 7 during the testing. He will also ensure that all necessary unit operating data is collected during the test.

2.2 OFFSITE PROJECT COORDINATOR

Heather McHale of Coterie will provide offsite coordination of the test program. Ms. McHale will ensure that all test team members communicate throughout the test program and that the objectives of the test plan are met. As the Offsite Project Coordinator, Ms. McHale will also ensure that all analytical data is validated and that all deviations are adequately addressed in the appropriate sections of the test report.

2.3 STACK TESTING DIRECTOR

Jason LaCroix of ATG will serve as the Stack Testing Director for the emission test. Mr. LaCroix will be responsible for technical supervision of the project, data interpretation, overall report preparation, and coordination with all laboratories and outside service providers. Mr. LaCroix or a project manager who reports to Mr. LaCroix will oversee the field crew during the testing, will be responsible for all aspects of sample collection, and will report any deviations immediately to the Emission Test Manager and Offsite Project Coordinator. The Stack Testing Director may or may not be onsite during the emission test.

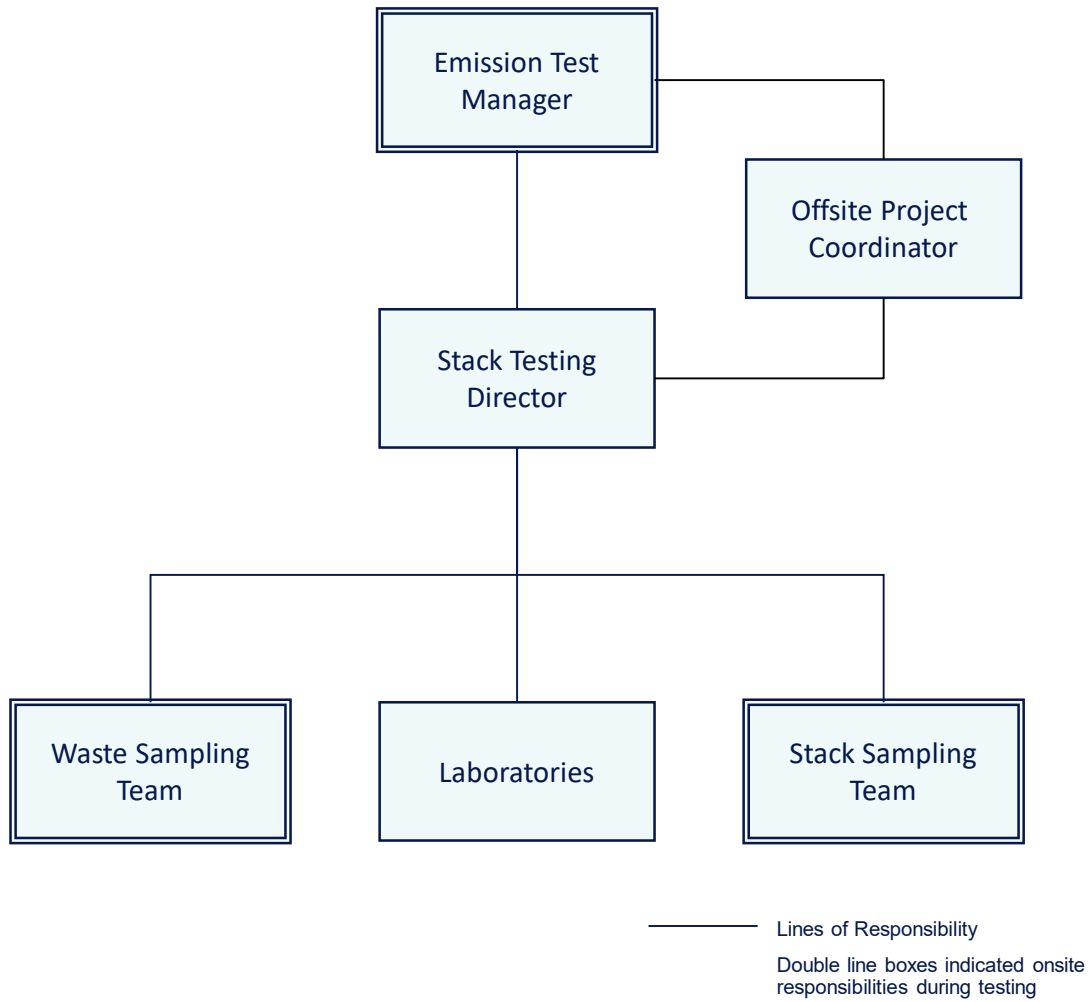
2.4 FIELD TEAM

The field team will be made up of BASF and contractor personnel. BASF operators will be responsible for collecting all waste samples. The stack sampling field team will collect all stack gas samples and will take custody of the waste samples from the operators at the conclusion of the testing.

2.5 LABORATORY

Eurofins will be the subcontracted laboratory. The point of contact for the laboratory is Courtney Adkins. The laboratory is well experienced in conducting analyses per the methods described in this QAPP. Prior to test execution, the QAPP will be submitted to the laboratory for review and understanding of their project responsibilities. The laboratory representative will sign the appropriate QAPP signature page. The laboratory representative will be responsible for ensuring that the laboratory follows all analytical methods specified in the QAPP in accordance with their standard operating procedure (SOPs), that a detailed case narrative is prepared addressing all analytical deviations, and that a complete laboratory report is provided.

FIGURE 2-1
PROJECT ORGANIZATION



3.0 SAMPLING PROCEDURES

This section provides descriptions of the waste and stack gas sampling procedures to be performed during the test.

3.1 WASTE LIQUID FUEL SAMPLING

Waste liquid fuel samples will be collected during each run. The waste sampling locations will be clearly labeled during the test. Table 3-1 summarizes the waste liquid fuel sampling procedures.

TABLE 3-1
WASTE LIQUID FUEL SAMPLING

WASTE	SAMPLING METHOD	SAMPLING AMOUNT/ FREQUENCY
Waste liquid fuel	Tap sampling	Approximately 150 mL into two separate bottles at beginning, middle, and end of each test run

BASF personnel will collect the waste liquid fuel samples from a tap located on the feed line. The tap will be flushed initially (allowed to flow briefly) before the samples are collected. At each sampling event, approximately 150 milliliters (mL) of the waste stream will be collected into two separate bottles. At the end of the run, each sample bottle will have approximately 450 mL of sample. One sample will be sent to the laboratory for analysis, and one sample will be sent to the laboratory as a backup.

3.2 STORAGE TANK VENT GAS SAMPLING

The storage tank vent gas will not be sampled and analyzed during the test. Process knowledge is used to characterize the storage tank vent gas.

3.3 NATURAL GAS SAMPLING

The natural gas will not be sampled and analyzed during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

3.4 STACK GAS SAMPLING

The stack gas sampling will follow the methods documented in 40 CFR Part 60 Appendix A (USEPA Methods). Brief descriptions of these methods are provided in this section. Any modifications to prescribed USEPA methods are outlined in the sampling procedure descriptions below. Table 3-2 summarizes the sampling procedures to be used during the test for collection of stack gas samples.

**TABLE 3-2
STACK GAS SAMPLING**

PARAMETER	SAMPLING METHOD ¹	SAMPLE FRACTION(S)
Traverse points, gas flow rate, composition, and moisture content	USEPA Methods 1, 2, 3A, and 4	Not applicable
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23	Filter
		Front-half and back-half acetone and toluene rinses
		XAD-2 resin
		Deionized water impingers contents
		Deionized water impingers acetone and toluene rinses
Hydrocarbons	USEPA Method 25A	Not applicable
Hydrogen cyanide	USEPA Method 320	Not applicable
Carbon monoxide and oxygen	Facility CEMS (USEPA Performance Specification 4B)	Not applicable

¹ USEPA Method refers to New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60. USEPA Performance Specification refers to New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

Adequate sampling ports are available to support the sampling. The gas flow rate, composition, and moisture content data will be collected concurrent with the isokinetic sampling train.

3.4.1 SAMPLING POINT DETERMINATION – USEPA METHOD 1

The number and location of the stack gas sampling points will be determined according to the procedures outlined in USEPA Method 1. Verification of absence of cyclonic flow will be conducted prior to testing by following the procedure described in USEPA Method 1. The cyclonic flow check will be performed once for the test.

3.4.2 FLUE GAS VELOCITY AND VOLUMETRIC FLOW RATE – USEPA METHOD 2

The flue gas velocity and volumetric flow rate will be determined according to the procedures outlined in USEPA Method 2. Velocity measurements will be made using Type S pitot tubes conforming to the geometric specifications outlined in USEPA Method 2. Differential pressures will be measured with fluid manometers. Effluent gas temperatures will be measured with thermocouples equipped with digital readouts.

3.4.3 FLUE GAS COMPOSITION AND MOLECULAR WEIGHT – USEPA METHOD 3A

The composition of the bulk gas and the gas molecular weight at the stack (concentrations of carbon dioxide and oxygen) will be determined by USEPA Method 3A. The stack sampling contractor will supply oxygen and carbon dioxide analyzers and all other associated equipment. The analyzers will be calibrated according to the procedures outlined in the method. A continuous sample of stack gas will be

withdrawn via a sample probe. The gas will be filtered and passed through a conditioning system for removal of particulates and moisture prior to being sent to the analyzer.

The calculated molecular weight will be used for all isokinetic calculations. The measured oxygen concentration will also be used to correct emission concentrations to seven percent oxygen.

3.4.4 FLUE GAS MOISTURE CONTENT – USEPA METHOD 4

The flue gas moisture content will be determined in conjunction with each isokinetic train according to the sampling and analytical procedures outlined in USEPA Method 4. The impingers will be connected in series and will contain reagents as described for each sampling method. The impingers will be housed in an ice bath to ensure condensation of the moisture from the flue gas stream. Any moisture that is not condensed in the impingers is captured in the silica gel. Moisture content is determined by weighing the various sample fractions.

3.4.5 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS – USEPA METHOD 23

The sampling procedures outlined in USEPA Method 23 will be used to determine the PAH and PCB concentrations in the stack gas during the emission test. The specific list of analytes is provided in Attachment A. The sampling train will consist of a glass fiber filter and coil condenser followed by a XAD-2 resin trap and a series of impingers. A total of four impingers will be used in the sampling train. The first of these impingers will be empty and will be followed by two impingers each containing 100 mL of reagent water. These impingers will be followed by an impinger containing approximately 200 to 300 grams of silica gel. A recirculating pump will also be connected to the sampling train to continuously circulate cold water to the condenser and resin trap to maintain the resin trap temperature below 68 degrees Fahrenheit (°F). A diagram of the sampling train is presented in Figure 3-1.

In preparation for the sampling event, several labeled sampling standards will be introduced inside the resin to monitor sampling efficiencies as well as to provide insights to the sample preservation and storage conditions. Upon preparation of the spiked resin traps, a separate fraction of resin from the same batch will be spiked the same day using the same solutions used in the field sampling modules and will be refrigerated in the laboratory until the return of the field samples. At such time, the control resin will become the laboratory method blank.

All sampling train components will be constructed of materials specified in the methods and will be cleaned and prepared per method specifications prior to testing. The probe and filter temperatures will be maintained between 223 and 273°F. The sampling runs will be performed within ± 10 percent of isokinetic conditions. A minimum of 141 dry standard cubic feet (dscf) of sample gas will be collected over a minimum of 240 minutes.

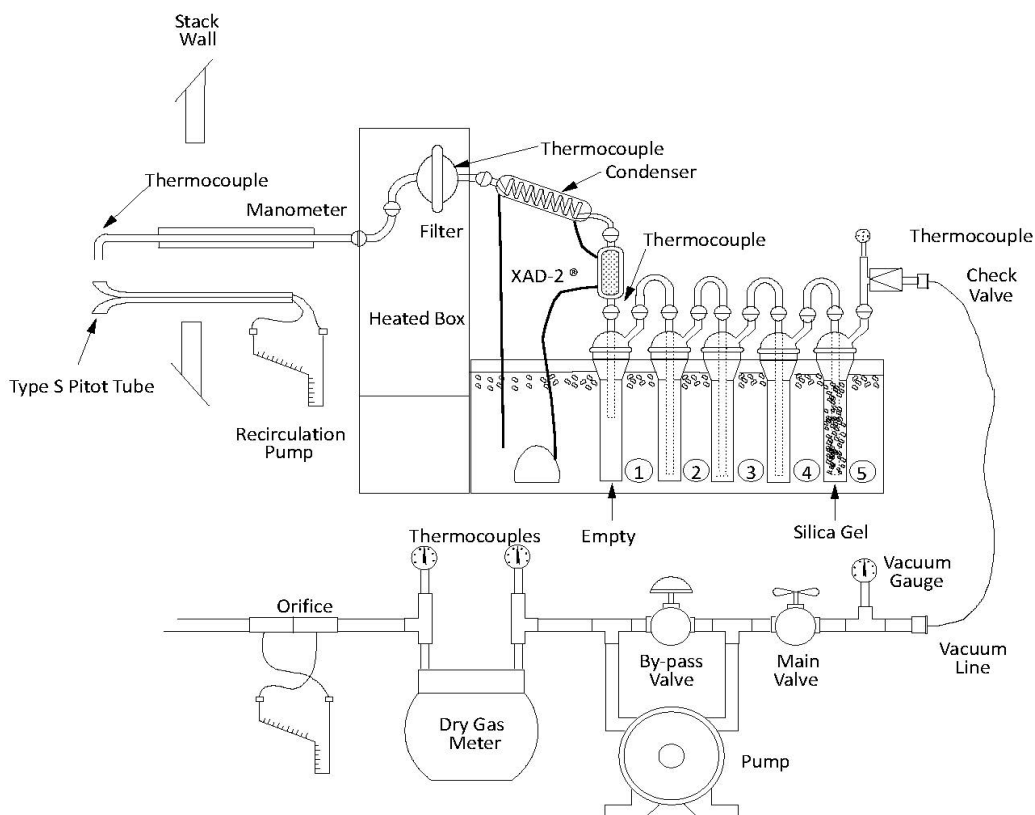
USEPA Method 23 Section 6.1.7 requires that the condenser to be oriented at an angle to cause moisture to flow down to the XAD adsorbent module to facilitate condensate drainage. Glassware with

this configuration is not currently available from a national supplier utilizing a large enough condenser to meet the temperature specifications of the method. Until equipment is widely available, the horizontal or vertical condenser configuration from traditional USEPA Method 23 will be utilized.

The recovery of the sampling train will result in the sample fractions listed in Table 3-2. The sampling train will be recovered according to the procedures specified in the method with one exception. USEPA Method 23 Section 8.2.9 specifies that the impinger condensate and solvent rinses are to be collected in a single container (No. 3). Due to analytical method development constraints of the subcontracted laboratory, it will be necessary to recover the sample fractions separately: impinger condensate (Container No. 3A) and solvent rinses (Container No. 3B). The filter will be shipped in a Petri dish, and all rinses will be collected in amber glass jars. The XAD-2 resin will be wrapped and shipped in the glass trap.

All sample fractions will be combined during extraction. The sample will be spiked with extraction standards. The sample will be analyzed for PAH and PCB by USEPA Method 23 (high resolution gas chromatograph/high resolution mass spectroscopy).

FIGURE 3-1
USEPA METHOD 23 SAMPLING TRAIN



3.4.6 HYDROCARBONS – USEPA METHOD 25A

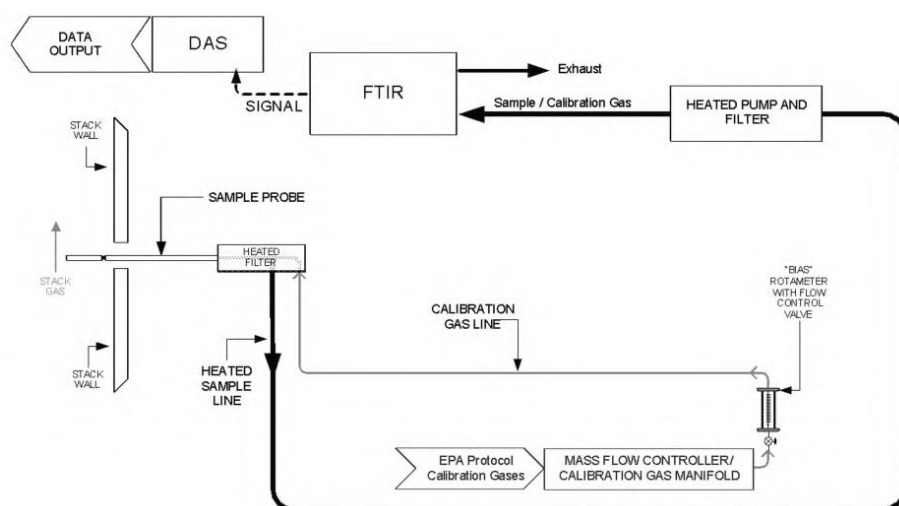
The procedures outlined in USEPA Method 25A will be used to measure the concentration of HC in the stack gas during the test. The stack sampling contractor will supply an HC analyzer with a span calibrated to match the anticipated HC concentration of the stack gas. Sampling will be concurrent with the USEPA Method 23 testing.

A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer will be heated to a temperature of at least 250°F. The wet-basis HC concentration will be reported in parts per million by volume (ppmv), as propane.

3.4.7 HYDROGEN CYANIDE – USEPA METHOD 320

The procedures outlined in USEPA Method 320 will be used to measure the concentration of hydrogen cyanide in the stack gas during the test. The stack gas will be extracted at a constant rate through a heated probe, heated filter, and heated sample line and analyzed with a Fourier transform infrared (FTIR) analyzer operated by a portable computer. The computer has FTIR spectra of calibration gases stored on the hard drive. These single component calibration spectra are used to analyze the measured sample spectra. The gas components to be measured will be selected from the spectra library and incorporated into the analytical method. The signal amplitude, linearity, and signal to noise ratio will be measured and recorded to document analyzer performance. A leak check will be performed on the sample cell. The instrument path length will be verified using ethylene as the Calibration Transfer Standard. Dynamic spiking will be performed using a certified standard of the target compound in nitrogen with sulfur hexafluoride blended as a tracer to calculate the dilution factor. All test spectra, interferograms, and analytical method information will be recorded and stored with the calculated analytical results. A diagram of the sampling system is presented in Figure 3-2.

**FIGURE 3-2
USEPA METHOD 320 SAMPLING SYSTEM**



A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer will be heated to a temperature of approximately 300°F. The wet-basis hydrogen cyanide concentration will be reported in ppmv.

3.4.8 CARBON MONOXIDE AND OXYGEN – USEPA PERFORMANCE SPECIFICATION 4B

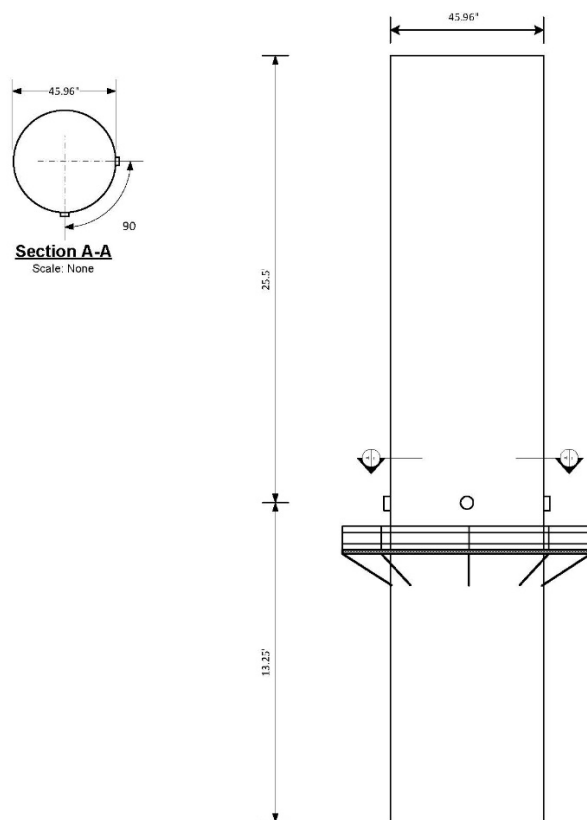
The facility's continuous emissions monitoring systems (CEMS) will be used to measure the concentration of carbon monoxide (CO) and oxygen in the stack gas during the test.

A continuous sample of stack gas will be withdrawn via a sample probe. The sampled gas will be filtered and will be passed through a conditioning system for removal of particulates and moisture prior to being sent to the analyzer. The CO concentration will be reported in parts per million by volume dry basis (ppmv dry) corrected to seven percent oxygen.

3.5 SAMPLING LOCATION

All sampling will be conducted on the Boiler No. 7 stack. Figure 3-3 provides a diagram of the sampling location.

**FIGURE 3-3
SAMPLING LOCATION**



3.6 SAMPLING QUALITY CONTROL PROCEDURES

Specific sampling QC procedures will be followed to ensure the production of useful and valid data throughout the course of this test program.

Prior to the start of testing, all sampling equipment will be thoroughly checked to ensure clean and operable components and to ensure no damage occurred during shipping. Once the equipment has been set up, the manometer used to measure pressure across the pitot tube will be leveled and zeroed, and the number and location of all sampling traverse points will be checked.

At the start of each test day and throughout the testing, all sample train components will be checked to ensure they remain in good condition and continue to operate properly. Electrical components will be checked for damaged wiring or bad connections. All glassware will be inspected to make sure no cracks or chips are present.

All sampling trains will be assembled and recovered in a mobile laboratory to ensure a clean environment, free of uncontrolled dust. To ensure the sampling trains are free of contamination, all glassware will remain sealed until assembly of the sampling train.

Pre-test and post-test leak checks will be performed for each sampling train, as required by the respective test methods. Care will be taken to make sure all sampling trains are being operated within the specifications of their respective method.

At the end of testing each day, all sampling equipment will be sealed and covered to protect from possible contamination and weather damage.

4.0 SAMPLE HANDLING AND DOCUMENTATION

Sample custody procedures for this program are based on procedures from *Handbook: QA/QC Procedures for Hazardous Waste Incineration* (QA/QC Handbook) and Chapter One of *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846). The procedures that will be used are discussed below.

4.1 FIELD SAMPLING OPERATIONS

The stack sampling contractor will be responsible for ensuring custody and sample tracking documentation procedures are followed for the field sampling and field analytical efforts. Documentation of all sample collection activities will be recorded on pre-printed data collection forms. Table 4-1 provides a summary of sample custody documentation requirements.

TABLE 4-1
SAMPLE CUSTODY DOCUMENTATION REQUIREMENTS

CUSTODY DOCUMENT	REQUIRED INFORMATION
Sample data forms	Sampler's name or initials
	Date and time of sample collection
	Sampling technique
	Compositing technique (waste samples)
	Sample identifier
	Sampling location
Chain of custody	Unique identifier for each sample shipped
	Date and time of sample collection
	Sample preservation requirements
	Analysis and preparation procedures requested
	Signature of individual relinquishing sample custody

Samples will be collected, transported, and stored in clean containers constructed of materials inert to the analytical matrix, such as glass jars. Only containers allowing airtight seals will be used. Amber glass will be employed when specified by the method. All waste feed samples will be packed by the stack sampling contractor for transfer or shipment to the appropriate laboratories. Sample tracking and custody forms, which include sample identification and analysis requests, will be enclosed in the sample shipment container.

Upon receipt by the laboratory, information pertaining to the samples will be recorded on the sample tracking and custody form or an attachment to the form. The laboratory will note the overall condition

of the samples, including the temperature of the samples upon receipt. The laboratory will also note any discrepancy in the sample identification between the sample labels and the custody forms. The signature of the person receiving the samples will be provided on the chain of custody (COC).

If the laboratory notes discrepancies in sample identification labels and forms or suspects issues concerning sample integrity, the laboratory will contact the Stack Testing Director, who will then contact the Offsite Project Coordinator, as appropriate. In many instances, questions concerning sample labeling can be rectified through discussions between the Stack Testing Director and the laboratory. Some sample integrity concerns can be rectified using archived samples. If archive samples are not available, the sample integrity issues are discussed with the Stack Testing Director and/or the Offsite Project Coordinator, and appropriate actions are taken, as warranted by the specific issue.

Every record pertaining to sample collection activities, including, but not limited to, stack sampling data sheets, process sample data sheets, sample tracking forms, sampling equipment calibration forms, balance calibration forms, and reagent preparation information will be submitted with the report to provide evidence that the samples were handled properly, taken at the correct time and in the correct manner, assigned a unique identifier, received intact by the laboratory, and preserved as appropriate. Adherence to the holding times indicated in Section 5.0, Tables 5-1 and 5-2, will be noted in the laboratory analytical results.

4.2 FIELD LABORATORY OPERATIONS

The stack sampling contractor will provide an onsite laboratory trailer for sample train assembly and recovery and documentation and recordkeeping activities. Sample tracking documentation, shipping records, reagent and standards traceability, and all sampling activity records will be maintained in the laboratory trailer.

Documentation of onsite analytical activities, such as calibration, standards traceability, sample preparation steps, and raw measurement results will also be maintained onsite.

5.0 ANALYTICAL PROCEDURES

The analyses will follow ASTM International (ASTM) Methods and USEPA Methods. Table 5-1 presents the analytical methods for waste liquid fuel samples. Table 5-2 presents the analytical methods for stack gas samples. These tables present the referenced analytical method, the laboratory performing the analysis, the extraction and analysis holding time, and if required, the sample preservation and sample preparation method. Collection of these samples was described in Section 3.0. Note that the tables in Section 3.0 specify which samples are to be collected using which methods; the tables included in this section specify the preparation and analytical methods to be used to evaluate each sample.

TABLE 5-1
PREPARATION AND ANALYSIS PROCEDURES FOR WASTE LIQUID FUEL SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Higher heating value	ASTM Method D240	Eurofins	Not applicable	Not applicable	180 days	Not applicable

¹ ASTM refers to ASTM International.

TABLE 5-2
PREPARATION AND ANALYSIS PROCEDURES FOR STACK GAS SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Molecular weight	USEPA Method 3A	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Moisture	USEPA Method 4	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	USEPA Method 23	Eurofins	≤6°C in the dark	30 days	40 days ²	USEPA Method 23
Hydrocarbons	USEPA Method 25A	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

TABLE 5-2 (CONTINUED)
PREPARATION AND ANALYSIS PROCEDURES FOR STACK GAS SAMPLES

PARAMETER	ANALYTICAL METHOD ¹	LAB	PRESERVATIVE REQUIRED	EXTRACTION HOLDING TIME	ANALYSIS HOLDING TIME	PREPARATION METHOD ¹
Hydrogen cyanide	USEPA Method 320	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Carbon monoxide and oxygen	USEPA Performance Specification 4B	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

¹ USEPA Method refers to New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60. USEPA Performance Specification refers to New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

² Holding time from extraction may be up to one year if samples are stored below -10°C.

6.0 DATA QUALITY OBJECTIVES

The purpose of this test program is to provide the information requested in USEPA's ICR. BASF is committed to ensuring data generated during this project are scientifically valid, defensible, complete, and of known precision and accuracy. These objectives can be best achieved by applying the requirements of USEPA accepted methodology as well as the more specific recommendations and guidelines for test burns. To ensure consistency and adequacy of plans and reports and overall data quality, guidance from Chapter One of SW-846 and the QA/QC Handbook has been integrated into the approaches and philosophies of this QAPP.

Key measures of performance include the objectives for precision, accuracy, representativeness, completeness, and comparability (commonly referred to as PARCC parameters). This section presents project-specific data quality objectives for this test. These objectives represent the level of data quality considered acceptable for valid decision making, as measured in a manner that best reflects performance in the actual project matrices. These objectives will be communicated to the entire project team, including onsite sampling personnel and offsite contract laboratories.

6.1 QUALITY CONTROL PARAMETERS

QC objectives include precision, accuracy, representativeness, comparability, and completeness. Typical parameters include matrix spike (MS) and MS duplicate (MSD) samples, laboratory control sample (LCS) and LCS duplicate (LCSD) samples, post digestion spike (PDS) and post digestion spike duplicate (PDSD) samples, field and sample duplicates, surrogates, standards, and spikes. Tables 6-1 and 6-2 provide the project specific QC procedures for assessing accuracy and precision for critical measurement parameters. Critical parameters are those that directly relate to the ICR requirements. These tables list the parameter of analysis, the QC parameter, the QC procedure, the frequency at which accuracy and precision are determined, and the objective.

Table 6-3 provides information on the number of samples that will be collected for the emission test.

TABLE 6-1
QUALITY CONTROL OBJECTIVES FOR WASTE LIQUID FUEL SAMPLES

ANALYTICAL PARAMETER	QC PARAMETER	QC PROCEDURE	FREQUENCY ¹	OBJECTIVE ¹
Higher heating value	Precision	Field duplicate	One per test program	<20% relative percent difference ²
		Laboratory control sample duplicate	One per analytical batch	≤2% relative percent difference ²
		Sample duplicate	One per analytical batch	≤10% relative percent difference ²
	Accuracy	Laboratory control samples	Two per analytical batch	98-102% recovery

¹ Unless specified otherwise, the frequency and objective provided for each parameter are based on specifications in the analytical method.

² If the concentrations are less than five times the reporting limit, the laboratory will be unable to control these limits.

TABLE 6-2
QUALITY CONTROL OBJECTIVES FOR STACK GAS SAMPLES

ANALYTICAL PARAMETERS	QC PARAMETER	QC PROCEDURE	FREQUENCY ¹	OBJECTIVE ¹
Polycyclic aromatic hydrocarbons	Precision	Laboratory control sample duplicate	One per analytical batch	≤25% relative percent difference
	Accuracy	Laboratory control samples	Two per analytical batch	60-140% recovery
		Internal standards (isotope dilution)	Every sample	20-130% recovery
		Surrogate standards	Every sample	70-130% recovery
Polychlorinated biphenyls	Precision	Laboratory control sample duplicate	One per analytical batch	≤50% relative percent difference
	Accuracy	Laboratory control samples	Two per analytical batch	60-135% recovery
		Internal standards (isotope dilution)	Every sample	20-145% recovery
		Surrogate standards	Every sample	20-130% recovery ² 70-130% recovery ³

¹ Unless specified otherwise, the frequency and objective provided for each parameter are based on specifications in the analytical method.

² These recoveries are required for surrogates PCB-28L, PCB-111L, and PCB-178L.

³ These recoveries are required for surrogates PCB-8L, PCB-79L, PCB-95L, and PCB-153L.

TABLE 6-3
NUMBER OF SAMPLES

SAMPLE MATRIX	SAMPLE DESCRIPTION	SAMPLES COLLECTED PER RUN	SAMPLES COLLECTED FOR QUALITY CONTROL	TOTAL SAMPLES COLLECTED	SAMPLES ANALYZED	SAMPLES ARCHIVED
Waste liquid fuel	Bulk liquid	2	2	16	8	8
Stack gas – polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Filter	1	2	9	8	1
	Front-half and back-half acetone and toluene rinses	1	1	8	8	0
	XAD-2 resin	1	2	9	8	1
	Deionized water impingers contents	1	1	8	8	0
	Deionized water impingers acetone and toluene rinses	1	1	8	8	0
	Deionized water	0	1	1	0	1
	Acetone	0	1	1	0	1
	Toluene	0	1	1	0	1

6.1.1 PRECISION

Precision is a measure of the reproducibility of results under a given set of conditions. It is expressed in terms of the distribution, or scatter, of replicate measurement results, calculated as the relative standard deviation (RSD) or, for duplicates, as relative percent difference (RPD). RPD and RSD values are calculated using the following equations:

$$RPD = \left(\frac{|X_1 - X_2|}{\text{avg } X} \right) \times 100$$

$$RSD = \left(\frac{\text{STDEV}}{\text{avg } X} \right) \times 100$$

Where X_1 and X_2 represent each of the duplicate results.

6.1.2 ACCURACY

Accuracy is a measure of the difference between an analysis result and the “true” value. Accuracy is expressed in terms of percent recovery (e.g., for surrogates, spikes, and reference material). Percent recovery for spiked samples, such as MS samples, is calculated using the following equation:

$$\% \text{Recovery} = \left(\frac{\text{SSR} - \text{SR}}{\text{SA}} \right) \times 100$$

Where:

SSR = Spiked sample result

SR = Sample result

SA = Spike added

Percent recovery for other QC parameters, such as LCS, surrogates, and standards, is calculated using the following equation:

$$\% \text{Recovery} = \left(\frac{\text{Measured Value}}{\text{True Value}} \right) \times 100$$

6.1.3 REPRESENTATIVENESS

Representativeness is defined as the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. An appropriate sampling strategy that addresses collection of representative samples in time and space is crucial to subsequent decision-making and defensibility of the data. There are no numerical objectives for representativeness. The selection of suitable locations and sampling strategies, as described in this QAPP, and adherence to sample collection protocols are the bases for ensuring representativeness.

6.1.4 COMPARABILITY

Comparability is defined as expressing the confidence with which one data set can be compared to another. There are no numerical objectives for comparability. A representative sample whose results are comparable to other data sets is ensured primarily using standard reference sampling and analytical methods. Reported in common units, the results generated should thus be comparable to those obtained from other emissions tests and allow for consistent decision-making.

6.1.5 COMPLETENESS

Completeness is defined as “a measure of the amount of valid data collected compared to the amount planned.” Completeness can be defined quantitatively using the following equation:

$$\% \text{Completeness} = \left(\frac{\text{No. of Valid Data}}{\text{No. of Data Planned}} \right) \times 100$$

In the overall project context, the target is 100 percent completeness, which for a valid test condition is defined as consisting of three valid test runs. A valid test run is one in which sufficient valid data are presented to make any demonstrations required by the ICR.

A run can be valid even though the completeness objective of 100 percent for the data package is not achieved. Given the possibility of human error (and other unpredictable problems) and the inability of collecting additional samples after a test is completed, the impact of achieving less than 100 percent completeness must be assessed in the specific situation, rather than arbitrarily rejecting all the useable scientific information for the run without such consideration. For example, satisfying the completeness objective for a single piece of analytical data includes providing documentation that proves the following:

- An acceptable number of sub-samples were collected and composited;
- Compositing procedures were followed;
- The sample collection log was completed;
- Shipping documents and laboratory instructions were prepared and followed;
- The correct analytical procedures were followed;
- Any necessary modifications to methodology were documented and justified;
- Approved laboratory records were completed;
- Proper data reduction procedures were followed; and
- Analytical instrument printouts were included.

Clearly, the failure of a sampler to note the time a sub-sample was taken (where the previous and following sample times are noted) has less impact on the validity and acceptability of a data package than a failure by the laboratory to demonstrate that the analytical instrument was properly calibrated.

Any errors or omissions in a data package will be identified and accompanied by a discussion of the potential impact on the validity of the data package and the conclusions of the report for the consideration and approval of the USEPA.

6.2 EVALUATION OF CONTAMINATION EFFECTS

Blanks will be collected throughout the test program to evaluate the effects of contamination on results. Blank samples of all reagents used in the stack sampling program will be collected. Field blanks will be collected during the test program if required by the respective method. Method blanks will be prepared and analyzed by the respective laboratories to evaluate the cleanliness of sample handling and preparation and overall laboratory practices. Since reagent blanks cannot be collected for waste samples, the laboratory method blank will be used to determine the effects of contamination for waste analyses.

Table 6-4 provides the type and acceptance criteria for each stack gas blank to be analyzed. These blanks, as well as the laboratory method blanks for the waste samples, provide critical information on the potential contamination that may occur in test program samples. The results of blank analyses can prove very useful when attempting to understand anomalies in data or generally higher than expected test results.

TABLE 6-4
BLANK ANALYSIS OBJECTIVES FOR STACK GAS SAMPLES

ANALYTICAL PARAMETERS	BLANK TYPE	FREQUENCY	OBJECTIVE
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Field train proof blank	One per test program	<Reporting limit
	Method blank	One per analytical batch	<Reporting limit
	Reagent blanks	One set per test program	Archived ¹

¹ The specified reagent blanks will initially be archived. These blanks will only be analyzed if sample contamination is suspected based on other analytical results.

6.3 PERFORMANCE AUDITS

On September 13, 2010, the USEPA issued a final rule to restructure the stationary source audit program. The program requires that audit samples be analyzed along with the samples collected while testing for regulatory compliance. This analysis helps the regulatory agency determine the validity of compliance test results. The rule requires sources to obtain and use audit samples from accredited providers. The USEPA has approved the National Environmental Laboratory Accreditation Conference (NELAC) Institute (TNI) Stationary Source Audit Program to provide accredited audit samples.

The USEPA suspended the audit program on May 28, 2019, due to a lack of sample providers, and this emission test is not being performed to demonstrate compliance. Therefore, BASF will not obtain any audit samples for the test.

6.4 CORRECTIVE ACTION

During any testing project, simple or complex, there is potential that deviations from data quality objectives may occur. This section gives corrective action procedures to be used to mitigate such problems.

6.4.1 EQUIPMENT FAILURE

Any equipment found to be out of calibration or operating improperly will be repaired or replaced before additional measurements are made. If equipment repair is done onsite, calibrations will be performed in accordance with the applicable methods prior to use. It may be necessary to transport equipment offsite for calibration. If calibrations cannot be performed, the equipment will not be used. If measurements are made with equipment subsequently found to be out of calibration or operating

improperly, a detailed explanation of the cause of the malfunction will be provided. The effect of the malfunction on the data will be assessed, and the data will be qualified.

6.4.2 ANALYTICAL DEVIATIONS

For analyses where a method QC check sample, such as a method blank, does not meet method specifications, the problem will be investigated to determine the cause as well as any corrective action that should be taken. Once the corrective action has been taken, the analysis will be re-examined to verify the problem has been eliminated.

In instances of out of specification spikes or calibrations, the samples involved will be re-extracted or reanalyzed if possible. In those instances where reanalyzing the sample is not possible, corrective measures will be taken to improve method performance prior to analysis of the next batch of samples.

Results for samples where matrix interferences preclude meeting objectives for recoveries of surrogates or spikes will be evaluated for potential bias to calculated emission results.

6.4.3 CONTAMINATION

The handling procedures for samples taken during this test, from blank testing to sample collection and analysis, are designed to eliminate contamination by limiting their exposure to contaminants in the ambient air and other outside sources. If levels of contamination are present above the reporting limits in the analyzed blanks, the archived blank samples will be analyzed. Corrective action will be taken if the results of the field blanks are significantly different from those of the reagent blanks or trip blanks. This comparison will indicate whether high levels in the field blank are due to contamination from exposure to outside sources, contamination of reagent materials or, in the case of sorbent traps, from degradation of the traps.

6.4.4 PROCEDURAL DEVIATIONS

SOPs for the methods being performed will be available onsite during all testing. BASF and the project team will determine an appropriate action in all cases where standard procedures cannot resolve the problem.

7.0 CALIBRATION PROCEDURES AND PREVENTATIVE MAINTENANCE

This section presents a brief discussion of calibration and routine maintenance procedures to be used for sampling and analytical equipment. Criteria for analytical calibrations are also included. Calibration procedures for each analytical method are discussed in detail within the methods.

7.1 SAMPLING EQUIPMENT

All sampling equipment will be provided by the stack sampling contractor. The equipment will be calibrated prior to arrival onsite and after all testing has been completed. The sampling equipment calibration requirements and acceptance limits are listed in Table 7-1.

The equipment will be calibrated according to the criteria specified in the reference method being employed. In addition, the stack sampling contractor will follow the guidelines set forth in the *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Source Specific Methods*. When these methods are inapplicable, methods such as those prescribed by ASTM will be used. Dry gas meters, orifices, nozzles, and pitot tubes are calibrated in accordance with these documents. The range of the calibration is specified for all environmental measurements to encompass the range of probable experimental values. This approach ensures that all results are based upon interpolative analyses rather than extrapolative analyses. Calibrations are designed to include, where practical, at least three measurement points evenly spaced over the range. This practice minimizes the probability that false assumptions of calibration linearity will be made. In addition, it is common practice to select, when practical, at least one calibration value that approximates the levels anticipated in the actual measurement.

Data obtained during calibrations are recorded on standardized forms, which are checked for completeness and accuracy. Data reduction and subsequent calculations are performed using computer software. Calculations are checked at least twice for accuracy. Copies of calibration forms will be included in the test or project reports.

TABLE 7-1
SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

STACK GAS PARAMETER	QUALITY PARAMETER	METHOD OF DETERMINATION	FREQUENCY	CRITERIA
Gas flow	Pitot tube angle and dimensions	Calibrated in a wind tunnel or measurements with a vernier micrometer and angle indicator	Pre-test and post-test	To specifications in USEPA Method 2
	Barometer	Measurements with a NIST traceable barometer or calibrated vs. National Weather Service station	Not applicable	Not applicable
	Stack gas thermocouple	Calibrated vs. ASTM mercury-in-glass thermometer or NIST standards	Pre-test and post-test	Within 1.5% as °R
Isokinetic sampling train	Dry gas meter and orifice	Calibrated against reference orifices or against a reference dry gas meter	Pre-test and post-test	1. Y within 0.05 of pre-test Y 2. H _@ within 0.15 of pre-test
	Probe nozzle	Measurements with a vernier micrometer to 0.001 inches	Pre-test and post-test ¹	Maximum difference in any two dimensions within 0.004 inches
	Dry gas meter thermocouples	Calibrated vs. ASTM mercury-in-glass thermometer or NIST standards	Pre-test and post-test	Within 1.5% as °R
	Trip balance	Calibrated vs. standard weights	Pre-test	Within 0.5 grams
Carbon dioxide and oxygen analyzers	Analyzer calibration error test	Checked using USEPA Protocol 1 calibration gases	Before the test run and after any failed system bias or drift check	±2% of calibration span
	System bias test	Checked using USEPA Protocol 1 calibration gases	Before and after each test run	±5% of calibration span
	System drift check	Checked using USEPA Protocol 1 calibration gases	After the post-test system bias test	±3% of calibration span
Hydrocarbon analyzer	Calibration error test	Checked using USEPA Protocol 1 calibration gases	Prior to the first test run and after any failed drift test	±5% of calibration gas value
	Drift test	Checked using USEPA Protocol 1 calibration gases	After the last test run and hourly during the test period	±3% of span value
Hydrogen cyanide Fourier transform infrared analyzer	Calibration transfer standard direct	Verify stability, confirm optical path length	Pre-test	±5% of cert value
	Calibration transfer standard responses	Verify system stability, recovery, and response time	Prior to the first test run and after each test run	±5% of mean value
	Analyte spike	Verify system ability to quantify the analyte of interest in the gas stream	Pre-test	±30% theoretical recovery

TABLE 7-1 (CONTINUED)
SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

STACK GAS PARAMETER	QUALITY PARAMETER	METHOD OF DETERMINATION	FREQUENCY	CRITERIA
Carbon monoxide analyzer (Facility CEMS)	Calibration drift check	Checked using calibration gases	Daily	±3% of calibration span
Oxygen analyzer (Facility CEMS)	Calibration drift check	Checked using calibration gases	Daily	±0.5% volume

¹ If glass or quartz nozzles are used, only a pre-test calibration will be performed, as the calibration cannot change.

7.1.1 PITOT TUBES

Each pitot tube is inspected in accordance with the geometry standards contained in USEPA Method 2 or calibrated in a wind tunnel. A calibration coefficient is calculated for each pitot tube.

7.1.2 DIFFERENTIAL PRESSURE GAUGES

Fluid manometers do not require calibration other than leak checks. Manometers are leak-checked in the field prior to each test series and again upon completion of testing.

7.1.3 DIGITAL TEMPERATURE INDICATOR

One digital temperature indicator is used to determine the flue gas temperature, probe temperature, oven temperature, impinger outlet temperature, and dry gas meter temperature. The digital temperature indicator is calibrated with a reference thermocouple and potentiometer system that is calibrated against National Institute of Standards and Technology (NIST) standards or calibrated versus an ASTM mercury in-glass thermometer. The calibration is acceptable if the agreement is within ±1.5 percent in degrees Rankine (°R) in the temperature range of 460 to 1,600°R (0 to 1,140°F).

7.1.4 DRY GAS METER AND ORIFICE

A set of calibrated orifices is used to calibrate the dry gas meter and orifice. For the meter orifice, an orifice calibration factor is calculated using three different sized calibrated orifices. Each calibrated orifice is measured twice for a total of six measurements. Alternatively, a reference dry gas meter is used to calibrate the field dry gas meter over a range of five different meter pressures. For the dry gas meter, the full calibration provides the calibration factor of the dry gas meter.

7.1.5 BAROMETER

The stack sampling contractor will use a purchased, factory-calibrated, NIST traceable barometer. The barometer calibrations are good for one year, and the barometer is disposed of when the calibration expires. Alternatively, the stack sampling contractor personnel will calibrate a barometer prior to arrival onsite against a National Weather Service station.

7.1.6 NOZZLE

Nozzles will be calibrated onsite using a micrometer. At least three readings will be taken at quarter turns. The arithmetic average of the values obtained during the calibration is used.

7.1.7 CONTINUOUS EMISSIONS MONITORS

The stack sampling contractor will supply CEMS to measure the concentrations of carbon dioxide, oxygen, and HC in the stack gas. The monitors will be calibrated according to the procedures outlined in the respective test methods.

The facility's CEMS will be used to measure the concentrations of CO and oxygen in the stack gas. A calibration drift check is performed daily as required by the Appendix to HWC NESHAP.

7.1.8 FOURIER TRANSFORM INFRARED ANALYZERS

The FTIR analyzer will be calibrated according to the procedures outlined in the test method. After providing ample time for the analyzer to reach the desired temperature and to stabilize, zero gas (nitrogen) will be introduced directly to the instrument sample port. While flowing nitrogen, the signal amplitude will be recorded, a background spectra will be taken, a linearity check will be performed and recorded, the peak to peak noise and the root mean square in the spectral region of interest will be measured, and a screenshot will be recorded.

Following the zero gas checks, ambient air will be pulled through the sample chamber, and the line width and resolution will be verified to be at 1,879 reciprocal centimeters (cm^{-1}). The peak position will be entered, and the full-width at half height will be recorded (screenshot). Following these checks, another background spectra will be recorded, and the calibration transfer standard (CTS) will be introduced directly to the instrument sample port. The CTS instrument recovery will be recorded, and the instrument mechanical response time will be measured.

The stack gas will be introduced to the analyzer through the sampling system, and several scans will be taken until a stable reading is achieved. The native concentration of the spiking analyte will be recorded. Spike gas will be introduced to the sampling system at a constant flow rate less than or equal to ten percent of the total sample flow rate, and a corresponding dilution ratio will be calculated along with a system response time. Matrix spike recovery spectra will be recorded to compare to against method requirements.

The matrix spike recovery will be conducted once at the beginning of the testing, and the CTS recovery procedures will be repeated following each test run. The corresponding values will be recorded.

7.2 ANALYTICAL EQUIPMENT

Analytical equipment calibration and QC procedures and internal QC checks are included to ensure accuracy of the measurements made by laboratory equipment. Table 7-2 provides a summary of the calibration and QC checks included for each analytical method for this test program.

TABLE 7-2
ANALYTICAL EQUIPMENT CALIBRATION AND QUALITY CONTROL CHECKS

PARAMETER	QUALITY CONTROL CHECK	METHOD OF DETERMINATION	FREQUENCY	ACCEPTANCE CRITERIA
Higher heating value	Initial calibration	Running average of 10 daily calibration standards	Initially and as needed	≤1% relative standard deviation
	Calibration check	Instrument calibration verification	Daily	±1% difference
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	Initial calibration	Five high resolution concentration calibration solutions	Prior to sample analysis	1. Mean relative response factor for unlabeled standards: <10% relative standard deviation 2. Mean relative response factor for labeled reference compounds: <20% relative standard deviation
	Calibration verification	Midlevel standard	At least once per shift	1. Response factors within ±25% of the initial calibration mean relative response factor for unlabeled standards 2. Response factors within ±25% of the initial calibration mean relative response factor for pre-sampling adsorbent standard and pre-extraction filter recovery standard 3. Response factors within ±30% of the initial calibration mean relative response factor for pre-extraction standard and alternative recovery standard
	Retention time window verification and gas chromatograph column performance	Monitor retention times, verify gas chromatograph column performance	At the beginning of each shift	Compliance with USEPA Method 23

7.3 PREVENTATIVE MAINTENANCE

To ensure the quality and reliability of the data obtained, preventative maintenance is performed on the sampling and analytical equipment. The following sections outline those procedures.

7.3.1 SAMPLING EQUIPMENT

An in-house equipment maintenance program is part of routine operations. The maintenance program's strengths include:

- Availability of personnel experienced in the details of equipment maintenance and fabrication;
- Maintenance of an adequate spare parts inventory; and

- Availability of tools and specialized equipment.

For field equipment, preventive maintenance schedules are developed from historical data. Table 7-3 gives specific maintenance procedures for field equipment. Maintenance schedules for major analytical instruments (*e.g.*, balances, gas chromatographs) are based on manufacturer's recommendations.

TABLE 7-3
MAINTENANCE ACTIVITIES FOR FIELD SAMPLING EQUIPMENT

EQUIPMENT	MAINTENANCE ACTIVITIES	SPARE PARTS
Vacuum system	Before and after field program: 1) Check oil and oiler jar 2) Leak check 3) Verify vacuum gauge is functional Yearly or as needed: 1) Replace valves in pump	Spare fluid
Inclined manometer	Before and after each field program: 1) Leak check 2) Check fluid for discoloration or visible matter Yearly or as needed: 1) Disassemble and clean 2) Replace fluid	Spare fluid, O-rings
Dry gas meter	Before and after each field program: 1) Check meter dial for erratic rotation Every 3 months: 1) Remove panels and check for excessive oil or corrosion 2) Disassemble and clean	None
Nozzles	Before and after each test: 1) Verify no dents, corrosion, or other damage 2) Glass or quartz nozzles, check for chips and cracks	Spare nozzles
Diaphragm pump	Before and after each test: 1) Leak check, change diaphragm if needed	None
Miscellaneous	Check for availability of spare parts	Fuses, fittings, thermocouples, thermocouple wire, variable transformers.

7.3.2 ANALYTICAL EQUIPMENT

In addition to including QC checks in the analysis of test program samples, the laboratories also perform regular inspection and maintenance of the laboratory equipment. Table 7-4 lists some of the routine maintenance procedures associated with the analytical equipment to be used in this test program.

TABLE 7-4
MAINTENANCE ACTIVITIES FOR ANALYTICAL EQUIPMENT

PARAMETER	EQUIPMENT	MAINTENANCE PROCEDURES
Polycyclic aromatic hydrocarbons and polychlorinated biphenyls	High resolution gas chromatograph/high resolution mass spectroscopy	<ol style="list-style-type: none"> 1. Change rotary pump oil 2. Clean beam center/focus stack and outer source 3. Clean ion volume 4. Change source slit

8.0 DATA REDUCTION, VALIDATION, AND REPORTING

This section presents the approaches to be used to reduce, validate, and report measurement data. With respect to the test, a quality team of companies and laboratories will be working together to ensure the success of this project. The team will make certain that:

- All raw data packages are paginated and assigned a unique project number. Each project number will reflect the type of analyses performed (*i.e.*, organic, inorganic, waste feed, air emissions).
- Each data package contains a case narrative, sample description information, sample receipt information, COC documentation, and summary report. All associated QA/QC results, run/batch data, instrument calibration data, sample extraction/preparation logs, and chromatograms, *etc.* will be included in each final laboratory report. Each report will also contain a list of validation qualifiers.
- These data are assigned to a specific appendix in the test report for easy reference and data review.

8.1 DATA REDUCTION

The methods referenced in this QAPP for field measurements and lab analyses are standard methods and are routinely used for such measurements and analyses. Data reduction procedures will follow the specific calculations presented in the reference methods.

Extreme care will be exercised to ensure hand-recorded data are written accurately and legibly. Additionally, prepared and formatted data recording forms will be required for all data collection. This is an important aid to verify all necessary data items are recorded. The collected field and laboratory data will be reviewed for correctness and completeness.

The stack sampling contractor will reduce and validate the sampling and field measurement data. The sampling data will include flow measurements, calibrations, *etc.* Each laboratory will reduce all analytical results prior to submission. The analytical data will be used to determine concentrations and emission rates of the compounds of interest. The way the derived quantities will be reported is discussed in Section 8.3.

8.2 DATA VALIDATION

Validation demonstrates that a process, item, data set, or service satisfies the requirements defined by the user. For this program, review and evaluation of documents and records will be performed to assess the validity of samples collected, methodologies used, and data reported. This review comprises three parts: review of field documentation, review of laboratory data reports, and evaluation of data quality. The Offsite Project Coordinator will have overall responsibility for data validation.

The sampling and analytical methods for this program have been selected because of their accepted validity for these types of applications. Adherence to the accepted methods, as described in this QAPP, is the first criterion for validation. The effectiveness of the analytical methods as applied to this study will be evaluated based on project-specific quality indicators, such as audit samples, replicate samples, and matrix and surrogate spikes.

8.2.1 REVIEW OF FIELD DOCUMENTATION

Sample validation is intended to ensure samples collected are representative of the population under study. Criteria for acceptance include positive identification, documentation of sample shipment, preservation and storage, and documentation demonstrating adherence to sample collection protocols and QC checks. As part of the review of field documentation, field data sheets will be checked for completeness, correctness, and consistency.

8.2.2 LABORATORY REVIEW OF DATA

The representative from each laboratory will approve all data results. The representative's signature will be included in the report. This signature will indicate that all QA/QC expectations were met. If expectations were not met, the discrepancies will be explained in the laboratory case narrative. The laboratory representative will discuss the QA/QC issues and include the impact of these issues on the data results in the case narrative.

Laboratory raw data packages will include the following information:

- A table of contents for the raw data; and
- Numbered pages, correlating to the table of contents.

8.2.3 EVALUATION OF DATA QUALITY

Under the direction of the Offsite Project Coordinator, the project team will review and evaluate the reported data. Data quality will be assessed. Review of the laboratory reports will result in an evaluation of the following parameters:

- Holding time for samples from date of collection to date of preparation and/or analysis;
- Sample storage conditions during the holding period prior to analysis;
- Tuning and calibration of instruments;
- PARCC parameter results and acceptance criteria;
- Blank sample analysis results; and
- Performance evaluation (audit) sample results, if applicable.

8.3 DATA REPORTING

The test report will be submitted to USEPA by August 30, 2024, or an extension will be requested.

All data will be reported in the appropriate units as applicable to the sample stream and the method of analysis. Waste analytical results will be reported as concentrations by weight. Stack gas results will be reported on a concentration basis and mass emission rates.

Specific procedures will be followed when reporting test results. This section describes the conventions for detection limits, blank correction, and the use of significant figures.

8.3.1 MANAGEMENT OF NON-DETECTS

There are several specific situations that will arise in which calculations will need to be performed, but the analytical results are non-detects (at some level). Contracted laboratories are requested to achieve the lowest detection limits possible for each of the methods included in this QAPP. All detection limits shall be defined in the laboratory reports. No data results shall be reported as “ND” without a defined numerical value provided as the detection limit.

The procedures for handling non-detects will be communicated to each laboratory and the stack sampling contractor. When dealing with detection limits and non-detect data, the following guidelines will be used:

- Method detection limits (MDLs) will be used to report waste analytical data;
- MDLs, reliable detection limits (RDLs), or estimated detection limits (EDLs) will be used to report stack gas analytical data, as appropriate; and
- Any results that use non-detects will be reported as maxima (*i.e.*, with a less-than sign – “<”).

8.3.2 BACKGROUND/BLANK CORRECTION

No methods used in this test program allow background or blank correction. Every effort will be made to use reagents and sampling media of the highest quality to ensure that no contamination is indicated in any of the blank samples. Any background contamination found will be documented.

8.3.3 ROUNDING AND SIGNIFICANT FIGURES

Observational results will be made with as many significant figures as possible. Rounding will be deferred until all resultant calculations have been made. The following rules will be applied in rounding data:

- When the digit after the one to be rounded is less than five, the one to be rounded is left unchanged; and
- When the digit after the one to be rounded is greater than or equal to five, the one to be rounded is increased by one.

Intermediate results will be presented in the final report at an appropriate level of significance (*i.e.*, rounded), although the derived, or resultant, calculations will be based on unrounded intermediate data. Consequently, it may not be possible to precisely reconstruct the resultant calculations on any table from the rounded intermediate results due to rounding errors.

9.0 QUALITY ASSURANCE REPORTS

Activities affecting data quality will be reviewed by the project team daily in the field, and as appropriate during non-field efforts. This will allow assessment of the overall effectiveness of the QAPP. These reviews will include the following:

- Summary of key QA activities, stressing measures that are being taken to ensure adherence to the QAPP;
- Description of problems observed that may impact data quality and corrective actions taken;
- Status of sample shipment and integrity at time of receipt and progress of sample analysis;
- Assessment of the QC data gathered over that time period;
- Any changes in QA organizational activities and personnel; and
- Results of internal or external assessments and the plan for correcting identified deficiencies, if any.

The testing program will have multiple tiers of QA/QC reviews. The specific laboratory performing the analysis will review the data for which they are responsible, and the laboratory project manager will sign the analytical data reports. Any QA/QC anomalies will be discussed in the case narrative. The Offsite Project Coordinator will also review the laboratory data package to discuss how the QA/QC anomalies may impact the emissions calculations. Any data determined to be invalid will be stated in the final report, and the impact of the invalid data on the test program will be assessed. Through this multiple tier process, all stages of the testing program will be tracked, monitored, reviewed, and documented.

10.0 REFERENCES

ASTM. *Annual Book of ASTM Standards*, latest annual edition.

USEPA. 1994. *Quality Assurance Handbook for Air Pollution Measurement Systems, Volume III, Stationary Source Specific Methods*. Office of Research and Development. EPA/600/R-94/038C.

USEPA. February 1991. *Preparation Aids for the Development of Category I Quality Assurance Project Plan*. Office of Research and Development. EPA/600/8-91/003.

USEPA. 1990. *Handbook: QA/QC Procedures for Hazardous Waste Incineration*. Office of Research and Development. EPA/625/6-89/023.

USEPA. November 1986 and updates. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*. USEPA 530/ SW-846.

USEPA. National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors, 40 CFR Part 63, Subpart EEE, September 30, 1999, and as amended through March 20, 2023.

USEPA. New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60.

USEPA. New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

Attachment A: ANALYTE LIST

**ATTACHMENT A
ANALYTE LIST**

ANALYTE	CHEMICAL ABSTRACT SERVICE NUMBER
Polycyclic aromatic hydrocarbons	
Acenaphthene	83-32-9
Acenaphthylene	208-96-8
Anthracene	120-12-7
Benz[a]anthracene	56-55-3
Benzo[b]fluoranthene	205-99-2
Benzo[k]fluoranthene	207-08-9
Benzo[g,h,i]perylene	191-24-2
Benzo[a]pyrene	50-32-8
Benzo[e]pyrene	192-97-2
Chrysene	218-01-9
Dibenz[a,h]anthracene	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno[1,2,3-cd]pyrene	193-39-5
2-Methylnaphthalene	91-57-6
Naphthalene	91-20-3
Perylene	198-55-8
Phenanthrene	85-01-8
Pyrene	129-00-0
Polychlorinated biphenyls	
2,4'-Dichlorobiphenyl	34883-43-7
2,2',5-Trichlorobiphenyl	37680-65-2
2,4,4'-Trichlorobiphenyl	7012-37-5
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3
3,4,4',5-Tetrachlorobiphenyl	70362-50-4
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6
2',3,4,4',5-Pentachlorobiphenyl	65510-44-3
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8

ATTACHMENT A
ANALYTE LIST

ANALYTE	CHEMICAL ABSTRACT SERVICE NUMBER
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4
2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3

Appendix B: PROCESS MONITORING DATA

BASF Corporation - McIntosh, Alabama
Boiler No. 7

			Run 1			Run 2			Run 3			Run 4		
			Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	Min	Max
TT61050_OMA	Combustion Chamber Temperature	°F	1,822	1,806	1,834	1,822	1,809	1,836	1,796	1,781	1,813	1,806	1,791	1,817
AT60819E_OMA	Stack Gas Flow Rate	scfm	33,881	33,870	33,903	33,885	33,871	33,906	33,749	33,045	33,908	33,625	33,042	33,910
FT60818	Steam Production Rate	lb/hr	98,379	97,571	99,559	98,694	97,944	99,453	97,226	96,512	97,914	97,678	96,797	98,715
FT60840_OMA	Hazardous Waste Feed Rate	lb/hr	1,500	1,496	1,508	1,500	1,495	1,504	1,500	1,495	1,506	1,500	1,496	1,505
FT60800	Natural Gas Flow Rate	kscfh	106	106	107	106	106	107	105	105	105	105	105	105
FT60852	Storage Tank Vent Gas Feed Rate	scfm	53.4	51.3	55.5	54.6	51.6	57.3	53.9	52.1	57.2	54.6	51.6	56.8
PT60837_OMA	Atomizing Steam Pressure	psig	100	98	101	100	98	101	101	101	101	101	101	101
AT60819CO_OMA	Corrected Stack Gas CO OMA	ppmv dry	1.93	1.92	1.94	1.92	1.77	1.95	1.85	1.75	1.93	1.87	1.69	1.92
AT60819CO_HRA	Corrected Stack Gas CO HRA	ppmv dry	1.94	1.93	1.99	1.94	1.91	1.94	1.88	1.67	1.93	1.92	1.92	1.92
AT60819D_OMA	Stack Gas Oxygen	% vol dry	3.79	3.77	3.83	3.78	3.71	3.82	3.78	3.73	3.80	3.77	3.75	3.86

			Run 5			Run 6			Run 7			Avg of Avgs
			Average	Min	Max	Average	Min	Max	Average	Min	Max	
TT61050_OMA	Combustion Chamber Temperature	°F	1,794	1,784	1,807	1,796	1,781	1,811	1,791	1,774	1,808	1,804
AT60819E_OMA	Stack Gas Flow Rate	scfm	34,167	33,867	34,715	33,051	33,038	33,064	33,549	33,041	33,900	33,701
FT60818	Steam Production Rate	lb/hr	96,433	94,673	99,464	95,004	94,585	95,417	96,555	95,693	97,526	97,138
FT60840_OMA	Hazardous Waste Feed Rate	lb/hr	1,500	1,495	1,506	1,500	1,495	1,504	1,500	1,496	1,504	1,500
FT60800	Natural Gas Flow Rate	kscfh	105	102	109	102	101	103	104	104	104	104.7
FT60852	Storage Tank Vent Gas Feed Rate	scfm	54.1	51.9	56.6	55.3	53.0	57.5	54.1	51.7	56.3	54.3
PT60837_OMA	Atomizing Steam Pressure	psig	100	99	101	101	101	101	101	101	101	100.6
AT60819CO_OMA	Corrected Stack Gas CO OMA	ppmv dry	2.03	2.00	2.06	1.93	1.75	1.98	2.08	1.96	2.19	1.94
AT60819CO_HRA	Corrected Stack Gas CO HRA	ppmv dry	1.86	1.61	1.94	1.94	1.94	1.95	1.91	1.67	2.01	1.91
AT60819D_OMA	Stack Gas Oxygen	% vol dry	3.94	3.81	4.00	3.85	3.80	3.90	3.85	3.82	3.89	3.82

September 2024

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Unit	Boiler No. 7
Condition:	ICR Test
Run:	1
Date:	06/11/2024
Start Time:	09:20
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:30

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,200

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
09:20	1,819	33,881	98,363	1,503	107
09:21	1,814	33,883	98,428	1,502	107
09:22	1,812	33,875	98,129	1,498	107
09:23	1,806	33,874	97,890	1,500	107
09:24	1,807	33,872	97,750	1,498	107
09:25	1,814	33,873	97,571	1,499	107
09:26	1,813	33,877	98,039	1,499	107
09:27	1,810	33,875	98,038	1,501	107
09:28	1,813	33,875	98,223	1,499	107
09:29	1,816	33,881	98,192	1,499	107
09:30	1,809	33,874	98,306	1,500	107
09:31	1,813	33,873	98,239	1,498	107
09:32	1,815	33,870	98,279	1,501	107
09:33	1,815	33,873	98,528	1,502	107
09:34	1,817	33,872	98,179	1,501	107
09:35	1,813	33,876	98,137	1,497	107
09:36	1,818	33,891	98,153	1,500	107
09:37	1,820	33,882	97,975	1,500	107
09:38	1,816	33,874	97,727	1,501	107
09:39	1,814	33,875	98,079	1,502	107
09:40	1,815	33,890	97,971	1,502	107
09:41	1,818	33,880	98,388	1,499	107
09:42	1,809	33,874	98,359	1,501	107
09:43	1,807	33,875	98,349	1,500	107
09:44	1,815	33,882	98,359	1,501	107
09:45	1,816	33,875	98,201	1,501	107
09:46	1,814	33,881	98,039	1,499	107
09:47	1,819	33,885	97,928	1,500	107
09:48	1,814	33,879	98,055	1,500	107
09:49	1,810	33,879	97,959	1,500	107
09:50	1,813	33,895	97,876	1,502	107
09:51	1,816	33,880	97,992	1,500	107
09:52	1,812	33,881	98,002	1,498	107
09:53	1,815	33,873	98,117	1,502	107
09:54	1,818	33,875	98,206	1,501	107
09:55	1,822	33,879	98,260	1,499	107
09:56	1,818	33,872	98,698	1,499	107
09:57	1,818	33,875	98,076	1,499	107
09:58	1,811	33,878	98,072	1,499	107
09:59	1,813	33,875	98,072	1,503	106
10:00	1,813	33,870	98,153	1,502	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
10:01	1,813	33,875	98,224	1,498	106
10:02	1,816	33,880	98,475	1,497	106
10:03	1,814	33,876	98,201	1,501	106
10:04	1,822	33,874	98,160	1,500	106
10:05	1,823	33,875	98,086	1,500	106
10:06	1,822	33,885	98,049	1,501	106
10:07	1,814	33,883	98,194	1,499	106
10:08	1,814	33,884	98,485	1,500	106
10:09	1,814	33,890	98,366	1,500	106
10:10	1,815	33,880	98,046	1,498	106
10:11	1,818	33,872	98,070	1,501	106
10:12	1,819	33,873	98,103	1,502	106
10:13	1,820	33,875	98,532	1,500	106
10:14	1,815	33,876	98,062	1,502	106
10:15	1,811	33,877	98,431	1,498	106
10:16	1,812	33,876	98,181	1,501	106
10:17	1,813	33,876	98,050	1,499	106
10:18	1,817	33,875	98,002	1,496	106
10:19	1,817	33,873	98,010	1,501	106
10:20	1,813	33,875	98,529	1,498	106
10:21	1,822	33,876	98,441	1,499	106
10:22	1,817	33,889	98,460	1,497	106
10:23	1,821	33,873	98,330	1,503	106
10:24	1,817	33,879	98,119	1,506	106
10:25	1,815	33,883	98,112	1,501	106
10:26	1,816	33,882	97,663	1,501	106
10:27	1,810	33,883	97,856	1,500	106
10:28	1,818	33,881	97,862	1,498	106
10:29	1,814	33,876	98,005	1,500	106
10:30	1,814	33,875	98,413	1,500	106
10:31	1,819	33,872	98,867	1,500	106
10:32	1,819	33,875	98,526	1,501	106
10:33	1,821	33,886	98,875	1,500	106
10:34	1,817	33,875	98,683	1,498	106
10:35	1,813	33,888	98,037	1,498	106
10:36	1,816	33,880	97,715	1,498	106
10:37	1,813	33,881	97,950	1,501	106
10:38	1,819	33,877	98,056	1,501	106
10:39	1,819	33,873	98,314	1,501	106
10:40	1,819	33,877	98,320	1,501	106
10:41	1,815	33,874	98,767	1,498	106
10:42	1,813	33,873	98,554	1,496	106
10:43	1,818	33,878	98,323	1,498	106
10:44	1,817	33,883	98,243	1,503	106
10:45	1,813	33,892	98,151	1,501	106
10:46	1,820	33,884	98,548	1,497	106
10:47	1,819	33,883	98,192	1,498	106
10:48	1,819	33,886	98,018	1,500	106
10:49	1,815	33,879	98,245	1,500	106
10:50	1,817	33,890	98,180	1,501	106
10:51	1,816	33,877	98,370	1,503	106
10:52	1,815	33,876	98,433	1,499	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
10:53	1,819	33,880	98,695	1,499	106
10:54	1,816	33,876	98,283	1,501	106
10:55	1,821	33,876	98,245	1,498	106
10:56	1,821	33,873	98,329	1,500	106
10:57	1,820	33,875	98,314	1,498	106
10:58	1,820	33,872	98,120	1,500	106
10:59	1,821	33,877	98,389	1,501	106
11:00	1,820	33,875	98,485	1,500	106
11:01	1,819	33,881	98,451	1,503	106
11:02	1,824	33,877	98,236	1,502	106
11:03	1,830	33,881	98,476	1,502	106
11:04	1,825	33,875	98,596	1,502	106
11:05	1,820	33,881	98,437	1,501	106
11:06	1,822	33,877	98,773	1,498	106
11:07	1,819	33,891	98,545	1,498	106
11:08	1,819	33,883	98,401	1,498	106
11:09	1,822	33,882	98,332	1,500	106
11:10	1,825	33,875	98,193	1,500	106
11:11	1,825	33,881	98,545	1,501	106
11:12	1,816	33,875	98,411	1,501	106
11:13	1,814	33,874	98,555	1,499	106
11:14	1,816	33,881	98,570	1,497	106
11:15	1,820	33,882	98,597	1,503	106
11:16	1,823	33,890	98,418	1,503	106
11:17	1,827	33,885	98,920	1,502	106
11:18	1,825	33,892	98,389	1,499	106
11:19	1,818	33,879	97,668	1,499	106
11:20	1,821	33,880	98,169	1,500	106
11:21	1,825	33,884	97,843	1,502	106
11:22	1,818	33,891	98,243	1,499	106
11:23	1,823	33,876	98,194	1,501	106
11:24	1,831	33,883	98,117	1,499	106
11:25	1,826	33,890	98,221	1,496	106
11:26	1,824	33,876	98,493	1,497	106
11:27	1,826	33,875	98,711	1,505	106
11:28	1,825	33,874	98,307	1,500	106
11:29	1,826	33,875	98,329	1,497	106
11:30	1,826	33,888	98,249	1,501	106
11:31	1,825	33,897	98,265	1,501	106
11:32	1,825	33,886	98,474	1,498	106
11:33	1,825	33,900	98,461	1,500	106
11:34	1,827	33,898	98,698	1,501	106
11:35	1,826	33,889	98,747	1,501	106
11:36	1,824	33,891	98,651	1,498	106
11:37	1,820	33,878	98,306	1,499	106
11:38	1,821	33,884	99,559	1,498	106
11:39	1,824	33,891	98,534	1,502	106
11:40	1,825	33,889	98,328	1,500	106
11:41	1,825	33,883	97,856	1,501	106
11:42	1,826	33,880	97,870	1,502	106
11:43	1,823	33,881	98,720	1,500	106
11:44	1,829	33,884	98,715	1,500	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
11:45	1,820	33,877	97,944	1,499	106
11:46	1,826	33,873	98,406	1,499	106
11:47	1,829	33,880	98,088	1,500	106
11:48	1,825	33,879	97,866	1,501	106
11:49	1,828	33,883	98,111	1,499	106
11:50	1,822	33,877	98,542	1,500	106
11:51	1,823	33,874	98,894	1,497	106
11:52	1,822	33,880	99,159	1,498	106
11:53	1,825	33,873	98,778	1,499	106
11:54	1,829	33,886	98,888	1,499	106
11:55	1,829	33,885	98,877	1,500	106
11:56	1,830	33,888	98,087	1,508	106
11:57	1,827	33,886	98,235	1,501	106
11:58	1,831	33,890	98,234	1,498	106
11:59	1,823	33,882	98,269	1,499	106
12:00	1,827	33,881	99,211	1,499	106
12:01	1,832	33,888	98,790	1,499	106
12:02	1,832	33,889	97,981	1,500	106
12:03	1,823	33,893	97,735	1,500	106
12:04	1,830	33,890	98,115	1,500	106
12:05	1,831	33,884	98,533	1,500	106
12:06	1,828	33,882	98,822	1,500	106
12:07	1,830	33,894	98,805	1,501	106
12:08	1,825	33,881	98,764	1,501	106
12:09	1,825	33,880	98,728	1,500	106
12:10	1,828	33,884	98,041	1,502	106
12:11	1,828	33,885	98,630	1,499	106
12:12	1,827	33,899	98,827	1,499	106
12:13	1,823	33,895	98,769	1,502	106
12:14	1,825	33,888	98,421	1,501	106
12:15	1,829	33,877	98,521	1,499	106
12:16	1,830	33,903	98,416	1,499	106
12:17	1,825	33,881	98,426	1,500	106
12:18	1,825	33,882	98,414	1,501	106
12:19	1,827	33,874	98,193	1,502	106
12:20	1,823	33,884	98,782	1,502	106
12:21	1,823	33,874	98,953	1,501	106
12:22	1,825	33,878	98,815	1,499	106
12:23	1,823	33,883	99,002	1,499	106
12:24	1,825	33,876	98,479	1,500	106
12:25	1,830	33,874	98,956	1,501	106
12:26	1,830	33,876	98,739	1,500	106
12:27	1,833	33,883	98,599	1,500	106
12:28	1,834	33,878	98,814	1,499	106
12:29	1,830	33,889	98,452	1,498	106
12:30	1,830	33,874	98,661	1,500	106
12:31	1,827	33,890	97,720	1,500	106
12:32	1,824	33,891	97,994	1,498	106
12:33	1,829	33,883	97,932	1,500	106
12:34	1,824	33,872	98,044	1,500	106
12:35	1,823	33,876	98,278	1,500	106
12:36	1,827	33,883	98,406	1,502	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
12:37	1,825	33,873	98,771	1,498	106
12:38	1,825	33,883	98,903	1,498	106
12:39	1,826	33,881	99,090	1,497	106
12:40	1,824	33,873	99,299	1,501	106
12:41	1,821	33,890	99,009	1,500	106
12:42	1,826	33,873	98,547	1,498	106
12:43	1,829	33,877	98,471	1,500	106
12:44	1,832	33,878	98,331	1,502	106
12:45	1,833	33,892	98,199	1,503	106
12:46	1,825	33,884	98,220	1,497	106
12:47	1,822	33,885	98,357	1,500	106
12:48	1,826	33,888	98,109	1,500	106
12:49	1,828	33,874	98,248	1,501	106
12:50	1,824	33,880	98,507	1,499	106
12:51	1,828	33,872	98,393	1,499	106
12:52	1,826	33,881	98,724	1,501	106
12:53	1,823	33,879	98,847	1,500	106
12:54	1,828	33,880	98,924	1,501	106
12:55	1,832	33,877	98,906	1,501	106
12:56	1,829	33,880	98,694	1,501	106
12:57	1,827	33,886	98,687	1,497	106
12:58	1,829	33,884	98,725	1,498	106
12:59	1,829	33,879	98,283	1,497	106
13:00	1,828	33,878	97,799	1,500	106
13:01	1,830	33,873	97,937	1,502	106
13:02	1,823	33,882	98,265	1,502	106
13:03	1,822	33,888	98,600	1,499	106
13:04	1,822	33,890	98,591	1,499	106
13:05	1,828	33,883	98,673	1,499	106
13:06	1,829	33,874	99,021	1,501	106
13:07	1,825	33,876	98,532	1,500	106
13:08	1,829	33,881	98,202	1,499	106
13:09	1,828	33,875	98,552	1,499	106
13:10	1,834	33,891	99,054	1,499	106
13:11	1,834	33,877	98,777	1,499	106
13:12	1,828	33,872	98,657	1,499	106
13:13	1,829	33,877	98,481	1,501	106
13:14	1,829	33,882	98,643	1,501	106
13:15	1,824	33,876	98,544	1,499	106
13:16	1,828	33,884	98,203	1,502	106
13:17	1,828	33,876	98,491	1,502	106
13:18	1,831	33,876	98,505	1,502	106
13:19	1,827	33,881	98,622	1,497	106
13:20	1,824	33,881	98,730	1,500	106
13:21	1,826	33,876	98,622	1,499	106
13:22	1,824	33,890	98,343	1,500	106
13:23	1,830	33,882	98,475	1,501	106
13:24	1,830	33,884	98,220	1,498	106
13:25	1,820	33,883	98,212	1,502	106
13:26	1,826	33,889	98,245	1,501	106
13:27	1,828	33,890	98,687	1,500	106
13:28	1,826	33,890	98,785	1,500	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
13:29	1,824	33,883	98,935	1,498	106
13:30	1,829	33,881	98,541	1,502	106
Average	1,822	33,881	98,379	1,500	106
Minimum	1,806	33,870	97,571	1,496	106
Maximum	1,834	33,903	99,559	1,508	107

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Unit	Boiler No. 7
Condition:	ICR Test
Run:	1
Date:	06/11/2024
Start Time:	09:20
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:30

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:20	52.5	100	1.92	1.99	3.79
09:21	53.7	100	1.92	1.99	3.79
09:22	54.1	100	1.92	1.99	3.79
09:23	54.0	100	1.92	1.99	3.79
09:24	54.4	100	1.92	1.98	3.79
09:25	54.2	100	1.92	1.98	3.79
09:26	53.4	100	1.92	1.98	3.79
09:27	53.1	100	1.92	1.98	3.79
09:28	53.2	100	1.92	1.98	3.79
09:29	52.8	100	1.92	1.98	3.79
09:30	53.7	100	1.92	1.98	3.79
09:31	53.3	100	1.92	1.98	3.79
09:32	52.8	100	1.92	1.97	3.79
09:33	54.0	100	1.92	1.97	3.79
09:34	53.6	100	1.92	1.97	3.79
09:35	53.0	100	1.92	1.97	3.79
09:36	53.4	100	1.92	1.97	3.79
09:37	53.8	100	1.92	1.97	3.79
09:38	53.2	100	1.93	1.97	3.79
09:39	53.4	100	1.93	1.97	3.79
09:40	52.9	100	1.93	1.96	3.79
09:41	52.8	100	1.93	1.96	3.79
09:42	53.8	100	1.93	1.96	3.79
09:43	53.9	100	1.93	1.96	3.79
09:44	53.6	100	1.93	1.96	3.79
09:45	53.9	100	1.93	1.96	3.79
09:46	53.4	100	1.93	1.96	3.79
09:47	53.8	100	1.93	1.96	3.79
09:48	53.0	100	1.93	1.96	3.79
09:49	53.2	100	1.93	1.95	3.79
09:50	53.7	100	1.93	1.95	3.79
09:51	53.5	100	1.93	1.95	3.79
09:52	53.9	100	1.93	1.95	3.79
09:53	54.4	100	1.93	1.95	3.78
09:54	54.3	100	1.93	1.95	3.78
09:55	53.6	100	1.93	1.95	3.78
09:56	53.6	100	1.93	1.95	3.78
09:57	54.3	100	1.93	1.94	3.78
09:58	53.2	100	1.93	1.94	3.78
09:59	54.1	100	1.93	1.94	3.78
10:00	53.2	100	1.93	1.94	3.78

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:01	55.0	100	1.93	1.94	3.78
10:02	54.2	100	1.93	1.94	3.78
10:03	53.9	100	1.93	1.94	3.78
10:04	54.1	100	1.93	1.94	3.78
10:05	53.6	100	1.93	1.93	3.78
10:06	54.3	100	1.93	1.93	3.78
10:07	54.5	100	1.93	1.93	3.78
10:08	54.2	100	1.93	1.93	3.78
10:09	54.4	100	1.93	1.93	3.78
10:10	55.0	100	1.93	1.93	3.78
10:11	53.9	100	1.93	1.93	3.78
10:12	54.1	100	1.93	1.93	3.78
10:13	54.4	100	1.93	1.93	3.78
10:14	53.7	100	1.93	1.93	3.78
10:15	53.8	100	1.93	1.93	3.78
10:16	54.2	100	1.93	1.93	3.78
10:17	54.1	100	1.93	1.93	3.78
10:18	54.5	99	1.93	1.93	3.78
10:19	53.8	99	1.93	1.93	3.78
10:20	54.3	99	1.93	1.93	3.78
10:21	55.3	99	1.93	1.93	3.78
10:22	54.2	99	1.93	1.93	3.78
10:23	55.1	99	1.93	1.93	3.78
10:24	55.0	98	1.93	1.93	3.78
10:25	55.1	98	1.93	1.93	3.78
10:26	55.5	98	1.93	1.93	3.78
10:27	54.6	98	1.93	1.93	3.78
10:28	55.4	99	1.93	1.93	3.78
10:29	54.2	99	1.93	1.93	3.78
10:30	54.7	99	1.93	1.93	3.78
10:31	54.2	99	1.93	1.93	3.78
10:32	54.4	99	1.93	1.93	3.78
10:33	55.5	99	1.93	1.93	3.78
10:34	54.6	99	1.93	1.93	3.78
10:35	55.4	99	1.93	1.93	3.78
10:36	54.2	99	1.93	1.93	3.78
10:37	54.7	99	1.93	1.93	3.78
10:38	54.7	99	1.93	1.93	3.78
10:39	54.6	99	1.93	1.93	3.78
10:40	55.4	99	1.93	1.93	3.78
10:41	54.5	99	1.93	1.93	3.78
10:42	54.6	99	1.93	1.93	3.78
10:43	54.3	99	1.93	1.93	3.78
10:44	54.8	99	1.93	1.93	3.78
10:45	55.2	99	1.93	1.93	3.78
10:46	54.5	99	1.93	1.93	3.78
10:47	55.4	100	1.93	1.93	3.78
10:48	54.5	100	1.93	1.93	3.78
10:49	54.2	100	1.93	1.93	3.78
10:50	54.5	100	1.93	1.93	3.78
10:51	54.4	100	1.93	1.93	3.78
10:52	54.3	100	1.93	1.93	3.78

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:53	54.7	100	1.93	1.93	3.78
10:54	53.8	100	1.93	1.93	3.78
10:55	54.5	100	1.93	1.93	3.78
10:56	54.6	100	1.93	1.93	3.78
10:57	54.1	100	1.93	1.93	3.78
10:58	54.1	100	1.93	1.93	3.78
10:59	53.9	100	1.93	1.93	3.78
11:00	54.5	100	1.93	1.93	3.78
11:01	55.3	100	1.93	1.93	3.78
11:02	53.9	100	1.93	1.93	3.78
11:03	54.1	100	1.93	1.93	3.78
11:04	54.6	100	1.93	1.93	3.78
11:05	54.3	100	1.93	1.93	3.78
11:06	53.9	100	1.93	1.93	3.78
11:07	53.9	101	1.93	1.93	3.78
11:08	53.7	101	1.93	1.93	3.78
11:09	53.9	101	1.93	1.93	3.78
11:10	54.4	101	1.93	1.93	3.78
11:11	53.7	101	1.93	1.93	3.77
11:12	54.4	101	1.93	1.93	3.77
11:13	53.2	101	1.93	1.93	3.77
11:14	53.7	101	1.93	1.93	3.77
11:15	55.2	101	1.93	1.93	3.77
11:16	54.4	101	1.93	1.93	3.77
11:17	54.8	101	1.93	1.93	3.77
11:18	54.5	101	1.93	1.93	3.77
11:19	53.4	101	1.93	1.93	3.77
11:20	54.1	101	1.93	1.93	3.77
11:21	54.2	101	1.93	1.93	3.77
11:22	54.5	101	1.93	1.93	3.77
11:23	54.4	101	1.93	1.93	3.77
11:24	54.2	101	1.93	1.93	3.77
11:25	53.2	101	1.93	1.93	3.77
11:26	52.6	100	1.93	1.93	3.77
11:27	54.1	100	1.93	1.93	3.77
11:28	53.6	100	1.93	1.93	3.77
11:29	53.3	100	1.93	1.93	3.77
11:30	52.8	100	1.93	1.93	3.77
11:31	54.4	100	1.93	1.93	3.77
11:32	54.0	100	1.93	1.93	3.77
11:33	53.1	100	1.93	1.93	3.77
11:34	53.9	100	1.93	1.93	3.77
11:35	53.7	100	1.93	1.93	3.77
11:36	52.7	100	1.93	1.93	3.77
11:37	54.0	100	1.93	1.93	3.77
11:38	53.6	100	1.93	1.93	3.77
11:39	52.9	100	1.93	1.93	3.77
11:40	53.0	100	1.93	1.93	3.77
11:41	52.7	100	1.93	1.93	3.77
11:42	53.3	100	1.93	1.93	3.77
11:43	52.3	100	1.93	1.93	3.77
11:44	52.5	100	1.93	1.93	3.77

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:45	53.0	100	1.93	1.93	3.77
11:46	52.4	100	1.93	1.93	3.77
11:47	52.3	100	1.93	1.93	3.77
11:48	52.1	100	1.93	1.93	3.77
11:49	52.2	100	1.93	1.93	3.77
11:50	52.6	100	1.93	1.93	3.77
11:51	52.0	100	1.93	1.93	3.77
11:52	52.8	100	1.93	1.93	3.77
11:53	51.9	100	1.93	1.93	3.77
11:54	51.8	100	1.93	1.93	3.77
11:55	52.3	100	1.93	1.93	3.77
11:56	52.3	100	1.93	1.93	3.77
11:57	51.9	100	1.93	1.93	3.77
11:58	51.6	100	1.93	1.93	3.77
11:59	51.6	100	1.93	1.93	3.77
12:00	51.7	100	1.93	1.93	3.77
12:01	52.1	100	1.93	1.93	3.77
12:02	52.6	100	1.93	1.93	3.77
12:03	52.6	100	1.93	1.93	3.77
12:04	52.8	100	1.93	1.93	3.77
12:05	52.7	100	1.93	1.93	3.77
12:06	53.0	100	1.93	1.93	3.77
12:07	52.9	100	1.93	1.93	3.77
12:08	52.3	100	1.93	1.93	3.77
12:09	52.7	100	1.93	1.93	3.77
12:10	53.0	100	1.93	1.93	3.77
12:11	52.2	100	1.93	1.93	3.77
12:12	52.7	101	1.93	1.93	3.77
12:13	51.7	101	1.93	1.93	3.77
12:14	52.4	101	1.93	1.93	3.77
12:15	53.5	101	1.93	1.93	3.77
12:16	51.9	101	1.93	1.93	3.77
12:17	52.0	101	1.93	1.93	3.77
12:18	52.8	101	1.93	1.93	3.77
12:19	53.3	101	1.93	1.93	3.77
12:20	52.8	101	1.93	1.93	3.77
12:21	52.8	101	1.93	1.93	3.77
12:22	53.0	101	1.93	1.93	3.78
12:23	52.7	101	1.93	1.93	3.78
12:24	53.0	101	1.93	1.93	3.78
12:25	52.9	101	1.93	1.93	3.78
12:26	52.3	101	1.93	1.93	3.78
12:27	52.3	101	1.93	1.93	3.78
12:28	53.3	101	1.93	1.93	3.78
12:29	52.2	101	1.93	1.93	3.78
12:30	52.5	101	1.93	1.93	3.78
12:31	52.2	101	1.93	1.93	3.78
12:32	52.0	101	1.93	1.93	3.78
12:33	52.7	101	1.93	1.93	3.78
12:34	52.6	101	1.94	1.93	3.79
12:35	51.8	101	1.94	1.93	3.79
12:36	52.5	101	1.94	1.93	3.79

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:37	52.4	101	1.94	1.93	3.79
12:38	51.5	101	1.94	1.93	3.79
12:39	52.0	101	1.94	1.93	3.79
12:40	52.2	101	1.94	1.93	3.79
12:41	52.9	101	1.94	1.93	3.79
12:42	52.9	100	1.94	1.93	3.79
12:43	52.5	100	1.94	1.93	3.79
12:44	51.6	100	1.94	1.93	3.79
12:45	52.0	100	1.94	1.93	3.80
12:46	52.9	100	1.94	1.93	3.80
12:47	52.1	100	1.94	1.93	3.80
12:48	53.1	100	1.94	1.93	3.80
12:49	51.9	100	1.94	1.93	3.80
12:50	52.3	100	1.94	1.93	3.80
12:51	51.5	100	1.94	1.93	3.80
12:52	51.3	100	1.94	1.93	3.80
12:53	52.3	100	1.94	1.93	3.80
12:54	51.9	100	1.94	1.93	3.80
12:55	52.0	100	1.94	1.93	3.80
12:56	52.3	100	1.94	1.93	3.80
12:57	52.7	100	1.94	1.93	3.81
12:58	52.6	100	1.94	1.93	3.81
12:59	52.8	100	1.94	1.93	3.81
13:00	52.2	100	1.94	1.93	3.81
13:01	52.7	100	1.94	1.93	3.81
13:02	53.4	100	1.94	1.93	3.81
13:03	52.0	100	1.94	1.93	3.81
13:04	52.2	100	1.94	1.93	3.81
13:05	51.7	100	1.94	1.93	3.81
13:06	53.3	100	1.94	1.93	3.81
13:07	52.8	100	1.94	1.93	3.81
13:08	52.4	100	1.94	1.93	3.81
13:09	52.9	100	1.94	1.93	3.82
13:10	52.4	100	1.94	1.93	3.82
13:11	51.7	100	1.94	1.93	3.82
13:12	52.1	100	1.94	1.93	3.82
13:13	51.9	100	1.94	1.93	3.82
13:14	52.4	100	1.94	1.93	3.82
13:15	52.1	100	1.94	1.93	3.82
13:16	52.7	100	1.94	1.93	3.82
13:17	53.1	100	1.94	1.93	3.82
13:18	52.6	100	1.94	1.93	3.82
13:19	52.0	100	1.94	1.93	3.82
13:20	53.4	100	1.94	1.93	3.83
13:21	52.5	100	1.94	1.93	3.83
13:22	53.0	100	1.94	1.93	3.83
13:23	53.4	100	1.94	1.93	3.83
13:24	53.8	100	1.94	1.93	3.83
13:25	53.8	100	1.94	1.93	3.83
13:26	53.2	100	1.94	1.93	3.83
13:27	53.2	100	1.94	1.93	3.83
13:28	54.1	100	1.94	1.93	3.83

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 1

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:29	53.8	100	1.94	1.93	3.83
13:30	53.4	100	1.94	1.93	3.83
Average	53.4	100	1.93	1.94	3.79
Minimum	51.3	98	1.92	1.93	3.77
Maximum	55.5	101	1.94	1.99	3.83

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Unit	Boiler No. 7
Condition:	ICR Test
Run:	2
Date:	06/11/2024
Start Time:	14:11
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:21

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,500

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
14:11	1,830	33,882	98,597	1,500	106
14:12	1,830	33,874	98,535	1,500	106
14:13	1,827	33,876	98,847	1,501	106
14:14	1,828	33,875	98,729	1,501	106
14:15	1,834	33,873	98,757	1,500	106
14:16	1,834	33,881	98,793	1,503	106
14:17	1,827	33,885	98,690	1,500	106
14:18	1,825	33,888	98,960	1,500	106
14:19	1,829	33,879	98,442	1,499	106
14:20	1,826	33,889	98,667	1,499	106
14:21	1,825	33,882	98,354	1,499	106
14:22	1,828	33,888	98,576	1,500	106
14:23	1,830	33,876	98,558	1,501	106
14:24	1,830	33,893	98,445	1,503	106
14:25	1,833	33,891	98,710	1,501	106
14:26	1,828	33,889	98,664	1,501	106
14:27	1,831	33,880	98,996	1,501	106
14:28	1,831	33,881	98,786	1,497	106
14:29	1,825	33,879	98,929	1,500	106
14:30	1,824	33,889	98,528	1,500	106
14:31	1,832	33,878	98,106	1,502	106
14:32	1,827	33,883	98,128	1,499	106
14:33	1,824	33,877	98,528	1,499	106
14:34	1,827	33,877	98,717	1,500	106
14:35	1,823	33,890	98,797	1,500	106
14:36	1,819	33,894	99,103	1,500	106
14:37	1,824	33,898	99,210	1,501	106
14:38	1,826	33,898	98,310	1,500	106
14:39	1,831	33,895	97,944	1,499	106
14:40	1,833	33,891	98,217	1,499	106
14:41	1,823	33,888	98,522	1,499	106
14:42	1,825	33,874	98,512	1,499	106
14:43	1,826	33,879	98,453	1,498	106
14:44	1,828	33,885	98,774	1,501	106
14:45	1,828	33,890	98,882	1,500	106
14:46	1,825	33,889	98,746	1,500	106
14:47	1,827	33,888	98,644	1,499	106
14:48	1,831	33,889	98,453	1,499	106
14:49	1,827	33,893	98,736	1,495	106
14:50	1,833	33,900	98,757	1,499	106
14:51	1,825	33,904	98,608	1,502	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
14:52	1,824	33,884	98,694	1,501	106
14:53	1,824	33,887	98,610	1,499	106
14:54	1,818	33,889	98,197	1,499	106
14:55	1,824	33,891	98,534	1,499	106
14:56	1,829	33,887	98,479	1,502	106
14:57	1,824	33,876	98,727	1,501	106
14:58	1,820	33,885	98,563	1,498	106
14:59	1,823	33,881	98,817	1,499	106
15:00	1,830	33,885	98,939	1,498	106
15:01	1,831	33,878	98,981	1,502	106
15:02	1,827	33,875	98,896	1,501	106
15:03	1,829	33,890	98,543	1,501	106
15:04	1,822	33,892	98,787	1,499	106
15:05	1,826	33,906	98,369	1,500	106
15:06	1,829	33,892	98,466	1,501	106
15:07	1,829	33,881	98,430	1,502	106
15:08	1,832	33,883	98,446	1,500	106
15:09	1,829	33,888	98,566	1,502	106
15:10	1,825	33,889	98,489	1,499	106
15:11	1,834	33,881	98,729	1,497	106
15:12	1,830	33,872	98,442	1,501	106
15:13	1,829	33,877	98,385	1,501	106
15:14	1,834	33,880	98,438	1,501	106
15:15	1,834	33,882	98,653	1,501	106
15:16	1,828	33,883	98,952	1,497	106
15:17	1,831	33,895	98,746	1,499	106
15:18	1,832	33,885	98,614	1,497	106
15:19	1,831	33,901	98,523	1,501	106
15:20	1,834	33,899	98,627	1,503	106
15:21	1,833	33,896	98,693	1,501	106
15:22	1,823	33,886	98,706	1,500	106
15:23	1,830	33,883	98,713	1,499	106
15:24	1,829	33,888	98,581	1,499	106
15:25	1,834	33,884	98,731	1,499	106
15:26	1,832	33,875	98,790	1,499	106
15:27	1,836	33,879	98,850	1,500	106
15:28	1,831	33,879	98,330	1,501	106
15:29	1,829	33,884	98,160	1,501	106
15:30	1,825	33,885	98,247	1,501	106
15:31	1,818	33,884	98,194	1,501	106
15:32	1,821	33,889	98,750	1,499	106
15:33	1,820	33,892	99,094	1,501	106
15:34	1,819	33,892	98,996	1,502	106
15:35	1,816	33,879	98,827	1,498	106
15:36	1,817	33,889	98,489	1,499	106
15:37	1,819	33,880	98,380	1,499	106
15:38	1,822	33,881	98,358	1,500	106
15:39	1,825	33,878	98,738	1,503	106
15:40	1,824	33,883	98,638	1,500	106
15:41	1,821	33,877	98,403	1,500	106
15:42	1,820	33,880	98,422	1,499	106
15:43	1,821	33,879	98,360	1,501	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
15:44	1,825	33,886	98,653	1,499	106
15:45	1,822	33,895	98,487	1,504	106
15:46	1,821	33,889	98,716	1,501	106
15:47	1,822	33,881	98,811	1,499	106
15:48	1,823	33,884	98,513	1,500	106
15:49	1,814	33,885	98,426	1,501	106
15:50	1,823	33,893	98,515	1,497	106
15:51	1,827	33,880	98,960	1,497	106
15:52	1,820	33,891	98,518	1,500	106
15:53	1,817	33,880	98,506	1,500	106
15:54	1,817	33,872	98,561	1,500	106
15:55	1,816	33,880	98,341	1,501	106
15:56	1,821	33,880	98,404	1,497	106
15:57	1,822	33,885	98,558	1,500	106
15:58	1,822	33,898	98,550	1,500	106
15:59	1,818	33,884	98,781	1,498	106
16:00	1,812	33,892	98,631	1,502	106
16:01	1,811	33,895	98,583	1,500	106
16:02	1,815	33,884	98,857	1,499	106
16:03	1,820	33,884	98,578	1,500	106
16:04	1,822	33,878	98,812	1,500	106
16:05	1,831	33,881	98,576	1,498	106
16:06	1,821	33,884	98,346	1,502	106
16:07	1,820	33,882	98,254	1,502	106
16:08	1,813	33,875	98,712	1,500	106
16:09	1,816	33,879	98,607	1,500	106
16:10	1,823	33,887	98,643	1,498	106
16:11	1,820	33,891	98,482	1,501	106
16:12	1,819	33,894	98,293	1,499	106
16:13	1,820	33,891	98,518	1,500	106
16:14	1,820	33,891	98,806	1,501	106
16:15	1,826	33,897	98,830	1,502	106
16:16	1,826	33,891	98,734	1,497	106
16:17	1,821	33,891	98,735	1,499	106
16:18	1,818	33,897	98,961	1,502	106
16:19	1,820	33,893	98,718	1,498	106
16:20	1,811	33,890	98,680	1,500	106
16:21	1,817	33,897	98,475	1,501	106
16:22	1,820	33,885	98,392	1,499	106
16:23	1,815	33,897	98,304	1,497	106
16:24	1,822	33,889	98,407	1,501	106
16:25	1,817	33,885	98,879	1,501	106
16:26	1,815	33,896	98,527	1,501	106
16:27	1,817	33,884	98,834	1,501	106
16:28	1,821	33,889	98,984	1,499	106
16:29	1,826	33,881	99,060	1,500	106
16:30	1,829	33,890	98,964	1,501	106
16:31	1,822	33,875	98,850	1,501	106
16:32	1,819	33,888	98,854	1,500	106
16:33	1,823	33,885	98,785	1,500	106
16:34	1,827	33,891	98,767	1,500	106
16:35	1,828	33,886	98,467	1,501	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
16:36	1,826	33,879	98,790	1,501	106
16:37	1,825	33,881	98,583	1,501	106
16:38	1,821	33,888	98,446	1,499	106
16:39	1,820	33,887	98,601	1,500	106
16:40	1,817	33,893	98,583	1,500	106
16:41	1,824	33,899	98,671	1,500	106
16:42	1,818	33,894	98,736	1,501	106
16:43	1,822	33,896	98,863	1,502	106
16:44	1,825	33,888	98,930	1,502	106
16:45	1,820	33,885	99,133	1,497	106
16:46	1,814	33,892	98,905	1,501	106
16:47	1,821	33,881	98,720	1,498	106
16:48	1,820	33,878	99,135	1,499	106
16:49	1,819	33,889	98,470	1,500	106
16:50	1,819	33,890	98,635	1,500	106
16:51	1,819	33,885	98,722	1,500	106
16:52	1,823	33,882	98,699	1,502	107
16:53	1,821	33,880	98,688	1,496	107
16:54	1,817	33,882	98,772	1,497	107
16:55	1,818	33,884	98,762	1,503	107
16:56	1,821	33,896	98,571	1,502	107
16:57	1,822	33,883	98,727	1,498	107
16:58	1,824	33,887	98,531	1,500	107
16:59	1,826	33,893	99,123	1,500	107
17:00	1,823	33,880	98,880	1,499	107
17:01	1,828	33,878	98,707	1,499	107
17:02	1,824	33,876	98,621	1,503	107
17:03	1,828	33,882	98,902	1,501	107
17:04	1,821	33,874	98,825	1,500	107
17:05	1,818	33,877	99,007	1,500	107
17:06	1,817	33,882	99,290	1,498	107
17:07	1,821	33,884	98,996	1,499	107
17:08	1,824	33,889	98,918	1,497	107
17:09	1,817	33,885	98,617	1,503	107
17:10	1,817	33,891	98,490	1,500	107
17:11	1,816	33,897	98,582	1,498	107
17:12	1,822	33,889	98,219	1,500	107
17:13	1,821	33,882	98,462	1,500	107
17:14	1,814	33,878	98,663	1,499	107
17:15	1,821	33,897	98,824	1,501	107
17:16	1,819	33,880	98,692	1,502	107
17:17	1,822	33,882	99,014	1,501	107
17:18	1,822	33,883	99,453	1,499	107
17:19	1,819	33,874	99,364	1,498	107
17:20	1,815	33,885	98,920	1,497	107
17:21	1,813	33,882	98,887	1,500	107
17:22	1,820	33,888	99,093	1,500	107
17:23	1,820	33,889	98,695	1,502	107
17:24	1,818	33,874	98,725	1,500	107
17:25	1,817	33,883	98,424	1,501	107
17:26	1,814	33,881	98,671	1,501	107
17:27	1,814	33,877	98,586	1,500	107

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
17:28	1,822	33,875	98,645	1,500	107
17:29	1,818	33,876	98,976	1,500	107
17:30	1,819	33,877	98,725	1,498	107
17:31	1,820	33,880	98,632	1,500	107
17:32	1,823	33,888	98,863	1,503	107
17:33	1,827	33,876	99,008	1,500	107
17:34	1,823	33,899	99,254	1,498	107
17:35	1,821	33,900	98,774	1,500	107
17:36	1,823	33,874	98,964	1,500	107
17:37	1,820	33,879	98,988	1,501	107
17:38	1,812	33,889	98,893	1,498	107
17:39	1,819	33,882	98,544	1,498	107
17:40	1,823	33,881	98,532	1,500	107
17:41	1,816	33,877	98,724	1,500	107
17:42	1,821	33,883	98,633	1,499	107
17:43	1,820	33,883	98,805	1,504	107
17:44	1,817	33,882	98,660	1,500	107
17:45	1,817	33,886	98,858	1,501	107
17:46	1,821	33,874	98,867	1,500	107
17:47	1,821	33,898	98,735	1,499	106
17:48	1,821	33,890	98,820	1,501	106
17:49	1,823	33,881	98,552	1,498	106
17:50	1,812	33,888	98,947	1,498	106
17:51	1,821	33,890	98,781	1,498	106
17:52	1,820	33,898	98,946	1,499	106
17:53	1,820	33,884	99,068	1,499	106
17:54	1,822	33,893	99,054	1,501	106
17:55	1,822	33,874	98,972	1,500	106
17:56	1,821	33,885	98,688	1,500	106
17:57	1,820	33,878	98,701	1,503	106
17:58	1,821	33,877	98,843	1,500	106
17:59	1,819	33,878	98,631	1,500	106
18:00	1,816	33,883	98,813	1,500	106
18:01	1,822	33,884	99,146	1,498	106
18:02	1,813	33,871	98,749	1,500	106
18:03	1,816	33,881	98,863	1,499	106
18:04	1,820	33,891	98,839	1,499	106
18:05	1,818	33,897	98,967	1,501	106
18:06	1,816	33,879	98,750	1,501	106
18:07	1,814	33,885	98,789	1,502	106
18:08	1,818	33,890	98,676	1,502	106
18:09	1,817	33,875	98,758	1,497	106
18:10	1,820	33,877	98,867	1,503	106
18:11	1,818	33,879	98,808	1,501	106
18:12	1,816	33,873	98,880	1,499	107
18:13	1,818	33,873	98,568	1,502	107
18:14	1,813	33,880	99,006	1,499	107
18:15	1,809	33,877	98,816	1,500	107
18:16	1,809	33,888	98,913	1,497	107
18:17	1,816	33,893	99,015	1,498	107
18:18	1,813	33,891	98,605	1,503	107
18:19	1,816	33,885	98,809	1,499	107

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/11/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
18:20	1,817	33,879	98,572	1,501	107
18:21	1,814	33,876	98,455	1,501	107
Average	1,822	33,885	98,694	1,500	106
Minimum	1,809	33,871	97,944	1,495	106
Maximum	1,836	33,906	99,453	1,504	107

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Unit	Boiler No. 7
Condition:	ICR Test
Run:	2
Date:	06/11/2024
Start Time:	14:11
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:21

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:11	54.8	100	1.94	1.94	3.82
14:12	54.1	100	1.94	1.94	3.82
14:13	55.0	100	1.94	1.94	3.82
14:14	55.8	100	1.94	1.94	3.82
14:15	54.8	100	1.94	1.94	3.82
14:16	54.5	100	1.94	1.94	3.82
14:17	54.2	100	1.94	1.94	3.82
14:18	54.8	100	1.94	1.94	3.82
14:19	53.5	100	1.94	1.94	3.82
14:20	54.7	100	1.94	1.94	3.82
14:21	55.3	100	1.94	1.94	3.82
14:22	54.3	100	1.94	1.94	3.82
14:23	54.4	100	1.94	1.94	3.82
14:24	54.6	100	1.94	1.94	3.82
14:25	54.5	100	1.94	1.94	3.82
14:26	54.5	100	1.94	1.94	3.82
14:27	55.0	100	1.94	1.94	3.82
14:28	55.5	100	1.94	1.94	3.82
14:29	55.2	100	1.94	1.94	3.82
14:30	55.2	100	1.94	1.94	3.81
14:31	55.6	100	1.94	1.94	3.81
14:32	55.7	100	1.94	1.94	3.81
14:33	55.1	100	1.94	1.94	3.81
14:34	53.9	100	1.94	1.94	3.81
14:35	54.0	100	1.94	1.94	3.81
14:36	55.4	100	1.94	1.94	3.81
14:37	56.1	100	1.94	1.94	3.81
14:38	55.8	100	1.94	1.94	3.81
14:39	56.1	100	1.94	1.94	3.81
14:40	55.3	100	1.94	1.94	3.81
14:41	55.3	100	1.94	1.94	3.81
14:42	54.7	100	1.94	1.94	3.81
14:43	56.3	100	1.94	1.94	3.81
14:44	56.3	100	1.94	1.94	3.81
14:45	56.0	100	1.94	1.94	3.81
14:46	55.5	100	1.94	1.94	3.81
14:47	54.9	100	1.94	1.94	3.81
14:48	54.9	100	1.94	1.94	3.81
14:49	56.2	100	1.94	1.94	3.81
14:50	55.5	100	1.94	1.94	3.81
14:51	55.5	100	1.94	1.94	3.81

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:52	55.6	100	1.94	1.94	3.81
14:53	56.3	100	1.94	1.94	3.81
14:54	55.1	100	1.94	1.94	3.81
14:55	55.7	100	1.94	1.94	3.81
14:56	56.3	100	1.94	1.94	3.81
14:57	55.4	100	1.94	1.94	3.81
14:58	55.8	100	1.94	1.94	3.81
14:59	56.6	100	1.94	1.94	3.81
15:00	56.3	100	1.94	1.94	3.80
15:01	56.5	100	1.94	1.94	3.80
15:02	56.3	100	1.94	1.94	3.80
15:03	55.5	100	1.94	1.94	3.80
15:04	55.4	100	1.94	1.94	3.80
15:05	55.7	100	1.94	1.94	3.80
15:06	55.6	100	1.94	1.94	3.80
15:07	55.0	100	1.94	1.94	3.80
15:08	55.7	100	1.94	1.94	3.80
15:09	55.8	100	1.94	1.94	3.80
15:10	55.7	100	1.94	1.94	3.80
15:11	54.8	100	1.94	1.94	3.80
15:12	56.2	100	1.94	1.94	3.80
15:13	55.9	100	1.94	1.94	3.80
15:14	55.3	100	1.94	1.94	3.80
15:15	55.5	100	1.94	1.94	3.80
15:16	55.7	100	1.94	1.94	3.80
15:17	55.2	100	1.94	1.94	3.80
15:18	55.1	100	1.94	1.94	3.80
15:19	55.4	100	1.94	1.94	3.80
15:20	55.7	100	1.94	1.94	3.80
15:21	55.5	100	1.94	1.94	3.80
15:22	54.3	100	1.94	1.94	3.80
15:23	55.7	100	1.94	1.94	3.80
15:24	56.3	100	1.94	1.94	3.80
15:25	55.3	100	1.94	1.94	3.80
15:26	54.9	100	1.94	1.94	3.80
15:27	54.8	100	1.94	1.94	3.80
15:28	55.4	100	1.94	1.94	3.80
15:29	55.2	100	1.94	1.94	3.80
15:30	54.1	100	1.94	1.94	3.80
15:31	55.6	100	1.95	1.94	3.81
15:32	56.0	100	1.95	1.94	3.81
15:33	55.9	100	1.95	1.94	3.81
15:34	55.7	100	1.95	1.94	3.81
15:35	55.4	100	1.95	1.94	3.81
15:36	55.1	100	1.95	1.94	3.81
15:37	55.8	100	1.95	1.94	3.81
15:38	55.2	100	1.95	1.94	3.81
15:39	54.9	100	1.95	1.94	3.81
15:40	54.7	100	1.95	1.94	3.81
15:41	55.0	100	1.95	1.94	3.81
15:42	55.2	100	1.95	1.94	3.81
15:43	55.2	100	1.95	1.94	3.81

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:44	55.4	100	1.95	1.94	3.81
15:45	55.1	100	1.95	1.94	3.81
15:46	56.0	100	1.95	1.94	3.81
15:47	55.4	100	1.95	1.94	3.81
15:48	55.8	100	1.95	1.94	3.81
15:49	55.9	100	1.95	1.94	3.81
15:50	54.7	100	1.95	1.94	3.81
15:51	56.3	100	1.95	1.94	3.81
15:52	56.9	100	1.95	1.94	3.81
15:53	56.0	100	1.95	1.94	3.81
15:54	54.4	100	1.95	1.94	3.81
15:55	55.3	100	1.95	1.94	3.81
15:56	56.1	100	1.95	1.94	3.81
15:57	56.3	100	1.95	1.94	3.81
15:58	55.1	100	1.95	1.94	3.81
15:59	55.7	100	1.95	1.94	3.81
16:00	55.9	100	1.95	1.94	3.81
16:01	56.2	99	1.95	1.94	3.81
16:02	55.5	98	1.95	1.94	3.81
16:03	55.8	98	1.95	1.94	3.81
16:04	56.2	98	1.95	1.94	3.81
16:05	55.1	99	1.95	1.94	3.81
16:06	54.6	99	1.95	1.94	3.81
16:07	55.7	99	1.95	1.94	3.81
16:08	55.3	99	1.95	1.94	3.81
16:09	55.6	99	1.95	1.94	3.81
16:10	55.8	99	1.95	1.94	3.81
16:11	55.5	100	1.95	1.94	3.81
16:12	55.2	100	1.95	1.94	3.81
16:13	54.6	100	1.95	1.94	3.81
16:14	56.0	100	1.95	1.94	3.81
16:15	56.2	100	1.95	1.94	3.80
16:16	55.2	100	1.95	1.94	3.80
16:17	55.1	100	1.95	1.94	3.80
16:18	54.2	101	1.95	1.94	3.80
16:19	54.8	101	1.95	1.94	3.80
16:20	54.8	100	1.95	1.94	3.80
16:21	55.6	100	1.95	1.94	3.80
16:22	55.3	100	1.95	1.94	3.80
16:23	55.1	100	1.95	1.94	3.80
16:24	54.3	100	1.95	1.94	3.80
16:25	55.4	100	1.95	1.94	3.80
16:26	57.3	100	1.95	1.94	3.80
16:27	56.5	100	1.95	1.94	3.79
16:28	55.6	100	1.95	1.94	3.79
16:29	55.7	100	1.95	1.94	3.79
16:30	55.5	100	1.95	1.94	3.79
16:31	54.8	100	1.95	1.94	3.79
16:32	55.2	100	1.95	1.94	3.79
16:33	54.8	100	1.95	1.94	3.79
16:34	55.4	100	1.95	1.94	3.79
16:35	55.5	100	1.95	1.94	3.79

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
16:36	55.1	100	1.95	1.94	3.79
16:37	55.6	100	1.95	1.94	3.79
16:38	55.7	100	1.95	1.94	3.79
16:39	55.2	100	1.95	1.94	3.78
16:40	55.1	100	1.95	1.94	3.78
16:41	55.1	100	1.95	1.94	3.78
16:42	55.7	100	1.95	1.94	3.78
16:43	55.5	100	1.95	1.94	3.78
16:44	54.5	100	1.95	1.94	3.78
16:45	55.3	100	1.95	1.94	3.78
16:46	55.7	100	1.95	1.94	3.78
16:47	54.9	100	1.95	1.94	3.78
16:48	55.4	100	1.95	1.94	3.78
16:49	55.4	100	1.95	1.94	3.78
16:50	54.9	100	1.95	1.94	3.78
16:51	55.2	100	1.95	1.94	3.77
16:52	54.2	100	1.95	1.94	3.77
16:53	54.1	100	1.95	1.94	3.77
16:54	53.7	100	1.95	1.94	3.77
16:55	54.2	100	1.95	1.94	3.77
16:56	54.4	100	1.95	1.94	3.77
16:57	54.7	100	1.95	1.94	3.77
16:58	55.1	100	1.95	1.94	3.77
16:59	54.8	100	1.95	1.94	3.77
17:00	53.6	100	1.95	1.94	3.77
17:01	54.2	100	1.95	1.94	3.77
17:02	54.2	100	1.95	1.94	3.77
17:03	54.1	100	1.95	1.94	3.76
17:04	54.2	100	1.95	1.94	3.76
17:05	53.5	100	1.95	1.94	3.76
17:06	53.2	100	1.95	1.94	3.76
17:07	53.9	100	1.95	1.94	3.76
17:08	54.3	100	1.95	1.94	3.76
17:09	54.5	100	1.95	1.94	3.76
17:10	54.1	100	1.95	1.94	3.76
17:11	54.3	100	1.95	1.94	3.76
17:12	53.2	101	1.95	1.94	3.76
17:13	53.1	101	1.95	1.94	3.76
17:14	53.7	101	1.95	1.94	3.76
17:15	53.9	101	1.95	1.94	3.75
17:16	54.0	101	1.95	1.94	3.75
17:17	54.0	101	1.95	1.94	3.75
17:18	53.6	101	1.94	1.94	3.75
17:19	53.8	101	1.94	1.94	3.75
17:20	53.5	101	1.94	1.94	3.75
17:21	53.9	101	1.94	1.94	3.75
17:22	53.9	101	1.93	1.94	3.75
17:23	53.6	101	1.93	1.94	3.75
17:24	53.4	101	1.93	1.94	3.75
17:25	52.6	101	1.93	1.94	3.75
17:26	53.7	101	1.92	1.94	3.75
17:27	53.3	101	1.92	1.94	3.74

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
17:28	53.0	101	1.92	1.94	3.74
17:29	53.7	101	1.91	1.94	3.74
17:30	53.1	101	1.91	1.94	3.74
17:31	52.8	101	1.91	1.94	3.74
17:32	53.1	101	1.91	1.94	3.74
17:33	53.0	101	1.90	1.94	3.74
17:34	52.4	101	1.90	1.94	3.74
17:35	52.6	101	1.90	1.94	3.74
17:36	53.6	101	1.90	1.94	3.74
17:37	52.6	101	1.89	1.94	3.74
17:38	52.4	101	1.89	1.94	3.74
17:39	52.7	101	1.89	1.94	3.73
17:40	53.3	101	1.88	1.94	3.73
17:41	52.6	101	1.88	1.94	3.73
17:42	53.3	101	1.88	1.94	3.73
17:43	53.3	101	1.88	1.94	3.73
17:44	53.0	101	1.87	1.94	3.73
17:45	53.2	101	1.87	1.94	3.73
17:46	52.8	101	1.87	1.94	3.73
17:47	53.4	101	1.87	1.94	3.73
17:48	53.1	101	1.86	1.94	3.73
17:49	51.9	101	1.86	1.94	3.73
17:50	51.7	101	1.86	1.94	3.73
17:51	53.2	101	1.85	1.94	3.72
17:52	52.7	101	1.85	1.94	3.72
17:53	52.6	101	1.85	1.94	3.72
17:54	51.7	101	1.85	1.94	3.72
17:55	52.1	101	1.84	1.94	3.72
17:56	52.8	101	1.84	1.94	3.72
17:57	52.8	101	1.84	1.94	3.72
17:58	52.4	101	1.84	1.94	3.72
17:59	52.2	101	1.83	1.94	3.72
18:00	53.7	101	1.83	1.94	3.72
18:01	53.2	101	1.83	1.94	3.72
18:02	52.5	101	1.82	1.94	3.72
18:03	51.7	101	1.82	1.94	3.72
18:04	52.4	101	1.82	1.94	3.71
18:05	51.8	101	1.82	1.94	3.71
18:06	52.0	101	1.81	1.94	3.71
18:07	53.5	101	1.81	1.94	3.71
18:08	53.3	101	1.81	1.94	3.71
18:09	52.9	101	1.81	1.94	3.71
18:10	51.9	101	1.80	1.94	3.71
18:11	52.8	101	1.80	1.94	3.71
18:12	52.4	101	1.80	1.93	3.71
18:13	52.2	101	1.79	1.93	3.71
18:14	52.7	101	1.79	1.93	3.72
18:15	52.5	101	1.79	1.92	3.72
18:16	52.1	101	1.79	1.92	3.72
18:17	52.7	101	1.78	1.92	3.72
18:18	51.6	101	1.78	1.92	3.73
18:19	52.5	101	1.78	1.91	3.73

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 2

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/11/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
18:20	52.0	101	1.78	1.91	3.73
18:21	52.6	101	1.77	1.91	3.74
Average	54.6	100	1.92	1.94	3.78
Minimum	51.6	98	1.77	1.91	3.71
Maximum	57.3	101	1.95	1.94	3.82

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Unit	Boiler No. 7
Condition:	ICR Test
Run:	3
Date:	06/12/2024
Start Time:	08:40
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:51

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,300

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
08:40	1,797	33,047	97,356	1,502	105
08:41	1,792	33,049	96,880	1,502	105
08:42	1,792	33,047	96,904	1,496	105
08:43	1,793	33,050	96,514	1,501	105
08:44	1,793	33,051	97,044	1,500	105
08:45	1,792	33,049	97,096	1,501	105
08:46	1,795	33,050	96,912	1,502	105
08:47	1,787	33,051	97,135	1,499	105
08:48	1,789	33,054	97,101	1,501	105
08:49	1,788	33,051	96,975	1,500	105
08:50	1,792	33,049	97,122	1,499	105
08:51	1,790	33,048	97,141	1,498	105
08:52	1,794	33,046	97,167	1,499	105
08:53	1,797	33,046	96,855	1,501	105
08:54	1,793	33,048	97,019	1,503	105
08:55	1,796	33,060	97,151	1,503	105
08:56	1,786	33,842	97,139	1,498	105
08:57	1,787	33,873	97,677	1,500	105
08:58	1,790	33,873	97,360	1,500	105
08:59	1,787	33,235	97,133	1,498	105
09:00	1,785	33,055	97,209	1,502	105
09:01	1,781	33,045	96,952	1,500	105
09:02	1,789	33,049	97,171	1,498	105
09:03	1,787	33,050	96,981	1,500	105
09:04	1,792	33,054	96,810	1,500	105
09:05	1,794	33,049	96,602	1,501	105
09:06	1,797	33,047	96,562	1,502	105
09:07	1,798	33,056	96,632	1,499	105
09:08	1,796	33,046	97,111	1,497	105
09:09	1,791	33,062	97,481	1,498	105
09:10	1,787	33,849	97,217	1,501	105
09:11	1,787	33,847	97,768	1,499	105
09:12	1,793	33,872	97,228	1,500	105
09:13	1,794	33,861	97,042	1,500	105
09:14	1,791	33,477	96,990	1,500	105
09:15	1,797	33,439	97,008	1,504	105
09:16	1,797	33,862	97,047	1,495	105
09:17	1,789	33,849	96,955	1,500	105
09:18	1,788	33,099	96,956	1,502	105
09:19	1,783	33,261	96,871	1,499	105
09:20	1,789	33,651	97,238	1,501	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
09:21	1,786	33,071	96,944	1,499	105
09:22	1,790	33,050	96,964	1,502	105
09:23	1,790	33,061	97,033	1,500	105
09:24	1,793	33,848	96,760	1,501	105
09:25	1,793	33,871	96,914	1,500	105
09:26	1,791	33,875	96,786	1,500	105
09:27	1,793	33,872	97,270	1,499	105
09:28	1,792	33,875	97,255	1,501	105
09:29	1,792	33,876	97,072	1,504	105
09:30	1,785	33,877	97,150	1,497	105
09:31	1,788	33,873	97,248	1,499	105
09:32	1,791	33,873	97,283	1,500	105
09:33	1,791	33,884	97,290	1,501	105
09:34	1,791	33,875	97,258	1,501	105
09:35	1,791	33,874	97,123	1,500	105
09:36	1,791	33,883	97,125	1,500	105
09:37	1,787	33,881	97,245	1,499	105
09:38	1,792	33,872	97,021	1,502	105
09:39	1,789	33,876	97,118	1,500	105
09:40	1,786	33,890	96,949	1,500	105
09:41	1,789	33,884	96,991	1,500	105
09:42	1,797	33,884	97,318	1,498	105
09:43	1,794	33,877	97,169	1,501	105
09:44	1,793	33,874	97,179	1,500	105
09:45	1,788	33,872	97,390	1,499	105
09:46	1,793	33,492	96,849	1,499	105
09:47	1,792	33,275	97,208	1,499	105
09:48	1,796	33,464	96,993	1,503	105
09:49	1,799	33,448	97,446	1,502	105
09:50	1,791	33,060	97,021	1,498	105
09:51	1,789	33,054	96,847	1,499	105
09:52	1,786	33,057	97,213	1,499	105
09:53	1,794	33,257	96,985	1,500	105
09:54	1,792	33,067	97,018	1,500	105
09:55	1,787	33,082	96,811	1,499	105
09:56	1,785	33,866	96,890	1,501	105
09:57	1,782	33,878	97,421	1,497	105
09:58	1,788	33,892	96,512	1,503	105
09:59	1,791	33,883	97,064	1,499	105
10:00	1,797	33,879	96,894	1,501	105
10:01	1,797	33,885	97,309	1,499	105
10:02	1,792	33,884	96,983	1,502	105
10:03	1,791	33,884	96,975	1,500	105
10:04	1,802	33,873	97,432	1,501	105
10:05	1,804	33,874	96,952	1,499	105
10:06	1,798	33,882	97,248	1,503	105
10:07	1,792	33,887	97,059	1,502	105
10:08	1,785	33,883	97,316	1,501	105
10:09	1,792	33,876	96,977	1,501	105
10:10	1,784	33,875	96,783	1,501	105
10:11	1,792	33,873	97,066	1,499	105
10:12	1,798	33,873	96,767	1,502	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
10:13	1,791	33,881	97,229	1,502	105
10:14	1,792	33,874	97,067	1,502	105
10:15	1,788	33,878	97,104	1,500	105
10:16	1,794	33,871	96,919	1,500	105
10:17	1,797	33,883	96,993	1,498	105
10:18	1,795	33,889	97,443	1,500	105
10:19	1,800	33,880	97,424	1,499	105
10:20	1,798	33,882	97,237	1,499	105
10:21	1,797	33,893	96,987	1,501	105
10:22	1,793	33,881	97,316	1,503	105
10:23	1,796	33,883	97,406	1,498	105
10:24	1,799	33,889	97,342	1,499	105
10:25	1,802	33,883	97,290	1,503	105
10:26	1,796	33,887	97,069	1,502	105
10:27	1,793	33,881	97,217	1,501	105
10:28	1,793	33,877	97,076	1,501	105
10:29	1,792	33,881	97,294	1,498	105
10:30	1,795	33,889	97,207	1,499	105
10:31	1,796	33,873	96,965	1,499	105
10:32	1,797	33,883	96,972	1,498	105
10:33	1,792	33,874	97,209	1,499	105
10:34	1,789	33,875	97,360	1,501	105
10:35	1,790	33,875	97,251	1,503	105
10:36	1,784	33,874	97,296	1,499	105
10:37	1,789	33,883	97,296	1,499	105
10:38	1,787	33,884	97,265	1,499	105
10:39	1,781	33,875	97,459	1,500	105
10:40	1,793	33,881	97,458	1,500	105
10:41	1,798	33,873	97,481	1,500	105
10:42	1,787	33,879	97,208	1,499	105
10:43	1,790	33,880	97,055	1,501	105
10:44	1,790	33,878	96,950	1,500	105
10:45	1,790	33,882	97,244	1,502	105
10:46	1,792	33,875	96,974	1,498	105
10:47	1,791	33,872	97,242	1,500	105
10:48	1,786	33,872	97,236	1,499	105
10:49	1,795	33,880	97,009	1,502	105
10:50	1,792	33,876	97,310	1,501	105
10:51	1,791	33,883	97,047	1,498	105
10:52	1,791	33,881	97,268	1,499	105
10:53	1,785	33,893	97,278	1,499	105
10:54	1,788	33,881	97,083	1,503	105
10:55	1,786	33,880	97,239	1,503	105
10:56	1,787	33,886	97,195	1,501	105
10:57	1,791	33,881	97,624	1,497	105
10:58	1,787	33,880	97,810	1,497	105
10:59	1,790	33,873	97,285	1,500	105
11:00	1,795	33,875	97,410	1,500	105
11:01	1,791	33,875	97,141	1,500	105
11:02	1,797	33,879	97,217	1,501	105
11:03	1,797	33,879	96,907	1,501	105
11:04	1,801	33,883	97,230	1,497	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
11:05	1,798	33,886	97,127	1,499	105
11:06	1,797	33,881	97,154	1,502	105
11:07	1,796	33,889	97,439	1,498	105
11:08	1,799	33,880	97,225	1,502	105
11:09	1,802	33,871	97,507	1,500	105
11:10	1,797	33,870	97,728	1,497	105
11:11	1,797	33,872	97,211	1,501	105
11:12	1,801	33,875	97,218	1,501	105
11:13	1,796	33,877	97,133	1,500	105
11:14	1,798	33,875	97,282	1,500	105
11:15	1,799	33,882	97,488	1,501	105
11:16	1,801	33,882	97,074	1,500	105
11:17	1,799	33,880	97,225	1,499	105
11:18	1,794	33,890	97,286	1,502	105
11:19	1,800	33,882	97,262	1,498	105
11:20	1,798	33,889	97,195	1,499	105
11:21	1,802	33,882	97,386	1,497	105
11:22	1,801	33,891	97,417	1,502	105
11:23	1,796	33,899	97,410	1,501	105
11:24	1,793	33,897	96,982	1,501	105
11:25	1,799	33,890	96,867	1,500	105
11:26	1,801	33,896	97,120	1,500	105
11:27	1,801	33,885	97,801	1,500	105
11:28	1,802	33,900	97,197	1,500	105
11:29	1,795	33,891	97,749	1,498	105
11:30	1,801	33,889	97,494	1,502	105
11:31	1,797	33,887	97,101	1,502	105
11:32	1,798	33,890	97,019	1,500	105
11:33	1,802	33,885	97,150	1,499	105
11:34	1,806	33,881	97,186	1,498	105
11:35	1,800	33,870	97,154	1,500	105
11:36	1,799	33,894	97,305	1,504	105
11:37	1,802	33,889	97,521	1,502	105
11:38	1,802	33,890	97,560	1,501	105
11:39	1,800	33,900	97,596	1,498	105
11:40	1,800	33,897	96,839	1,498	105
11:41	1,797	33,881	97,119	1,502	105
11:42	1,800	33,885	97,319	1,501	105
11:43	1,808	33,894	97,406	1,496	105
11:44	1,802	33,885	97,402	1,498	105
11:45	1,795	33,888	97,292	1,500	105
11:46	1,797	33,891	97,499	1,500	105
11:47	1,801	33,892	97,213	1,500	105
11:48	1,798	33,892	97,453	1,498	105
11:49	1,802	33,891	97,419	1,502	105
11:50	1,803	33,890	97,410	1,506	105
11:51	1,800	33,890	97,253	1,499	105
11:52	1,796	33,889	97,018	1,497	105
11:53	1,801	33,896	97,360	1,497	105
11:54	1,800	33,907	97,429	1,504	105
11:55	1,800	33,900	97,571	1,498	105
11:56	1,803	33,877	97,461	1,498	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
11:57	1,812	33,880	97,252	1,498	105
11:58	1,804	33,897	97,482	1,501	105
11:59	1,805	33,895	97,410	1,500	105
12:00	1,801	33,889	97,333	1,500	105
12:01	1,799	33,897	97,134	1,501	105
12:02	1,802	33,881	97,328	1,497	105
12:03	1,805	33,876	97,409	1,499	105
12:04	1,805	33,891	97,481	1,499	105
12:05	1,802	33,899	97,544	1,501	105
12:06	1,799	33,882	97,460	1,502	105
12:07	1,799	33,880	97,537	1,497	105
12:08	1,806	33,875	97,520	1,500	105
12:09	1,803	33,907	97,402	1,500	105
12:10	1,799	33,908	97,534	1,497	105
12:11	1,805	33,888	97,461	1,497	105
12:12	1,805	33,890	97,574	1,501	105
12:13	1,807	33,883	97,857	1,499	105
12:14	1,810	33,876	97,356	1,499	105
12:15	1,804	33,890	97,501	1,500	105
12:16	1,806	33,872	97,545	1,500	105
12:17	1,801	33,884	97,690	1,498	105
12:18	1,804	33,878	97,375	1,504	105
12:19	1,804	33,894	97,002	1,506	105
12:20	1,805	33,892	97,173	1,497	105
12:21	1,800	33,900	97,520	1,497	105
12:22	1,797	33,905	97,371	1,501	105
12:23	1,797	33,906	97,087	1,501	105
12:24	1,801	33,905	97,631	1,501	105
12:25	1,800	33,900	97,203	1,501	105
12:26	1,800	33,894	97,514	1,498	105
12:27	1,800	33,886	97,175	1,498	105
12:28	1,804	33,888	96,956	1,500	105
12:29	1,803	33,881	97,280	1,499	105
12:30	1,803	33,882	97,360	1,501	105
12:31	1,808	33,889	97,432	1,498	105
12:32	1,808	33,901	97,549	1,497	105
12:33	1,806	33,897	97,394	1,500	105
12:34	1,804	33,898	97,445	1,502	105
12:35	1,804	33,908	97,558	1,500	105
12:36	1,797	33,900	97,914	1,499	105
12:37	1,803	33,899	97,228	1,503	105
12:38	1,805	33,906	97,249	1,500	105
12:39	1,806	33,896	97,448	1,500	105
12:40	1,802	33,905	97,177	1,499	105
12:41	1,806	33,900	97,502	1,501	105
12:42	1,803	33,890	97,355	1,503	105
12:43	1,809	33,893	97,477	1,498	105
12:44	1,811	33,889	97,599	1,499	105
12:45	1,807	33,878	97,464	1,500	105
12:46	1,802	33,889	97,542	1,502	105
12:47	1,806	33,883	97,685	1,498	105
12:48	1,810	33,889	97,294	1,499	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
12:49	1,813	33,901	97,439	1,499	105
12:50	1,808	33,907	97,517	1,500	105
12:51	1,804	33,892	97,228	1,505	105
Average	1,796	33,749	97,226	1,500	105
Minimum	1,781	33,045	96,512	1,495	105
Maximum	1,813	33,908	97,914	1,506	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Unit	Boiler No. 7
Condition:	ICR Test
Run:	3
Date:	06/12/2024
Start Time:	08:40
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:51

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:40	54.5	101	1.75	1.67	3.80
08:41	54.9	101	1.75	1.68	3.80
08:42	54.7	101	1.75	1.68	3.80
08:43	54.5	101	1.75	1.68	3.80
08:44	54.4	101	1.75	1.69	3.80
08:45	55.4	101	1.75	1.69	3.80
08:46	54.7	101	1.75	1.69	3.80
08:47	53.8	101	1.75	1.69	3.80
08:48	54.7	101	1.75	1.70	3.80
08:49	54.8	101	1.76	1.70	3.80
08:50	55.6	101	1.76	1.70	3.80
08:51	55.4	101	1.76	1.71	3.80
08:52	55.2	101	1.76	1.71	3.80
08:53	54.7	101	1.76	1.71	3.80
08:54	54.8	101	1.76	1.71	3.80
08:55	55.2	101	1.76	1.72	3.80
08:56	54.8	101	1.76	1.72	3.80
08:57	54.1	101	1.76	1.72	3.80
08:58	55.1	101	1.76	1.73	3.80
08:59	54.9	101	1.76	1.73	3.80
09:00	54.9	101	1.76	1.73	3.80
09:01	54.6	101	1.77	1.73	3.80
09:02	54.1	101	1.77	1.74	3.80
09:03	53.8	101	1.77	1.74	3.80
09:04	53.6	101	1.77	1.74	3.80
09:05	54.3	101	1.77	1.75	3.80
09:06	53.5	101	1.77	1.75	3.80
09:07	54.7	101	1.77	1.75	3.80
09:08	54.8	101	1.77	1.75	3.80
09:09	54.7	101	1.77	1.76	3.80
09:10	54.6	101	1.77	1.76	3.80
09:11	56.7	101	1.77	1.76	3.80
09:12	55.8	101	1.77	1.76	3.80
09:13	55.7	101	1.78	1.77	3.80
09:14	55.4	101	1.78	1.77	3.80
09:15	54.5	101	1.78	1.77	3.80
09:16	54.2	101	1.78	1.78	3.80
09:17	54.4	101	1.78	1.78	3.80
09:18	54.6	101	1.78	1.78	3.80
09:19	54.4	101	1.78	1.78	3.80
09:20	54.2	101	1.78	1.79	3.80

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:21	54.8	101	1.78	1.79	3.80
09:22	53.8	101	1.78	1.79	3.80
09:23	53.1	101	1.78	1.80	3.80
09:24	54.2	101	1.78	1.80	3.80
09:25	54.0	101	1.79	1.80	3.80
09:26	54.5	101	1.79	1.80	3.80
09:27	54.3	101	1.79	1.81	3.80
09:28	53.5	101	1.79	1.81	3.80
09:29	52.8	101	1.79	1.81	3.80
09:30	52.3	101	1.79	1.82	3.80
09:31	53.4	101	1.79	1.82	3.80
09:32	53.5	101	1.79	1.82	3.80
09:33	53.5	101	1.79	1.82	3.80
09:34	53.8	101	1.79	1.83	3.80
09:35	53.9	101	1.79	1.83	3.80
09:36	53.4	101	1.79	1.83	3.80
09:37	53.8	101	1.80	1.84	3.80
09:38	54.0	101	1.80	1.84	3.80
09:39	54.1	101	1.80	1.84	3.80
09:40	53.5	101	1.80	1.84	3.80
09:41	53.2	101	1.80	1.85	3.80
09:42	53.6	101	1.80	1.85	3.80
09:43	54.3	101	1.80	1.85	3.80
09:44	53.1	101	1.80	1.86	3.80
09:45	53.2	101	1.80	1.86	3.80
09:46	53.1	101	1.80	1.86	3.80
09:47	53.8	101	1.80	1.86	3.80
09:48	54.5	101	1.80	1.87	3.80
09:49	54.5	101	1.81	1.87	3.80
09:50	56.1	101	1.81	1.87	3.80
09:51	55.2	101	1.81	1.88	3.80
09:52	54.3	101	1.81	1.88	3.80
09:53	53.6	101	1.81	1.88	3.80
09:54	54.1	101	1.81	1.88	3.80
09:55	54.5	101	1.81	1.89	3.80
09:56	53.8	101	1.81	1.89	3.80
09:57	54.7	101	1.81	1.89	3.80
09:58	54.1	101	1.81	1.90	3.80
09:59	54.3	101	1.81	1.90	3.80
10:00	53.8	101	1.81	1.90	3.80
10:01	53.8	101	1.82	1.90	3.80
10:02	52.6	101	1.82	1.91	3.80
10:03	53.6	101	1.82	1.91	3.80
10:04	53.3	101	1.82	1.91	3.80
10:05	53.4	101	1.82	1.91	3.79
10:06	54.3	101	1.82	1.92	3.79
10:07	56.9	101	1.82	1.92	3.79
10:08	57.2	101	1.82	1.92	3.79
10:09	54.6	101	1.82	1.93	3.79
10:10	54.4	101	1.82	1.93	3.79
10:11	55.2	101	1.82	1.93	3.79
10:12	54.5	101	1.82	1.93	3.79

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:13	55.0	101	1.83	1.93	3.79
10:14	54.8	101	1.83	1.93	3.79
10:15	54.7	101	1.83	1.93	3.79
10:16	55.4	101	1.83	1.93	3.79
10:17	55.3	101	1.83	1.93	3.78
10:18	54.1	101	1.83	1.93	3.78
10:19	54.0	101	1.83	1.93	3.78
10:20	53.7	101	1.83	1.93	3.78
10:21	54.8	101	1.83	1.93	3.78
10:22	53.7	101	1.83	1.93	3.78
10:23	53.9	101	1.83	1.93	3.78
10:24	54.9	101	1.83	1.93	3.78
10:25	52.7	101	1.84	1.93	3.78
10:26	54.5	101	1.84	1.93	3.78
10:27	53.9	101	1.84	1.93	3.78
10:28	53.6	101	1.84	1.93	3.78
10:29	54.7	101	1.84	1.93	3.77
10:30	53.4	101	1.84	1.93	3.77
10:31	53.2	101	1.84	1.93	3.77
10:32	54.5	101	1.84	1.93	3.77
10:33	54.2	101	1.84	1.93	3.77
10:34	54.3	101	1.84	1.93	3.77
10:35	53.6	101	1.84	1.93	3.77
10:36	52.7	101	1.84	1.93	3.77
10:37	54.0	101	1.85	1.93	3.77
10:38	53.9	101	1.85	1.93	3.77
10:39	52.7	101	1.85	1.93	3.77
10:40	53.6	101	1.85	1.93	3.77
10:41	53.4	101	1.85	1.93	3.77
10:42	53.8	101	1.85	1.93	3.76
10:43	53.9	101	1.85	1.93	3.76
10:44	53.2	101	1.85	1.93	3.76
10:45	53.3	101	1.85	1.93	3.76
10:46	54.2	101	1.85	1.93	3.76
10:47	54.0	101	1.85	1.93	3.76
10:48	53.5	101	1.85	1.93	3.76
10:49	53.7	101	1.86	1.93	3.76
10:50	53.8	101	1.86	1.93	3.76
10:51	54.3	101	1.86	1.93	3.76
10:52	53.4	101	1.86	1.93	3.76
10:53	53.2	101	1.86	1.93	3.75
10:54	53.6	101	1.86	1.93	3.75
10:55	53.5	101	1.86	1.93	3.75
10:56	53.7	101	1.86	1.93	3.75
10:57	54.0	101	1.86	1.93	3.75
10:58	53.6	101	1.86	1.93	3.75
10:59	54.7	101	1.86	1.93	3.75
11:00	53.7	101	1.86	1.93	3.75
11:01	53.9	101	1.87	1.93	3.75
11:02	53.3	101	1.87	1.93	3.75
11:03	54.0	101	1.87	1.93	3.75
11:04	53.6	101	1.87	1.93	3.75

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:05	52.8	101	1.87	1.93	3.74
11:06	53.3	101	1.87	1.93	3.74
11:07	53.6	101	1.87	1.93	3.74
11:08	54.5	101	1.87	1.93	3.74
11:09	54.3	101	1.87	1.93	3.74
11:10	52.8	101	1.87	1.93	3.74
11:11	53.0	101	1.87	1.93	3.74
11:12	53.2	101	1.87	1.93	3.74
11:13	54.3	101	1.88	1.93	3.74
11:14	54.3	101	1.88	1.93	3.74
11:15	53.5	101	1.88	1.93	3.74
11:16	53.4	101	1.88	1.93	3.74
11:17	53.8	101	1.88	1.93	3.73
11:18	54.0	101	1.88	1.93	3.73
11:19	53.3	101	1.88	1.93	3.73
11:20	53.6	101	1.88	1.93	3.73
11:21	53.0	101	1.88	1.93	3.73
11:22	53.7	101	1.88	1.93	3.74
11:23	52.9	101	1.88	1.93	3.74
11:24	53.6	101	1.88	1.93	3.75
11:25	54.3	101	1.89	1.93	3.76
11:26	53.4	101	1.89	1.93	3.76
11:27	53.5	101	1.89	1.93	3.76
11:28	53.5	101	1.89	1.93	3.76
11:29	53.6	101	1.89	1.93	3.76
11:30	52.8	101	1.89	1.93	3.76
11:31	52.8	101	1.89	1.93	3.76
11:32	52.1	101	1.89	1.93	3.76
11:33	54.5	101	1.89	1.93	3.76
11:34	55.0	101	1.89	1.93	3.76
11:35	53.6	101	1.89	1.93	3.76
11:36	53.0	101	1.89	1.93	3.75
11:37	53.0	101	1.90	1.93	3.75
11:38	52.8	101	1.90	1.93	3.75
11:39	53.7	101	1.90	1.93	3.75
11:40	53.3	101	1.90	1.93	3.75
11:41	53.3	101	1.90	1.93	3.75
11:42	54.6	101	1.90	1.93	3.75
11:43	53.4	101	1.90	1.93	3.75
11:44	53.5	101	1.90	1.93	3.75
11:45	54.2	101	1.90	1.93	3.75
11:46	54.1	101	1.90	1.93	3.75
11:47	54.3	101	1.90	1.93	3.75
11:48	53.1	101	1.90	1.93	3.75
11:49	54.1	101	1.91	1.93	3.75
11:50	53.8	101	1.91	1.93	3.75
11:51	53.9	101	1.91	1.93	3.76
11:52	54.0	101	1.91	1.93	3.76
11:53	53.6	101	1.91	1.93	3.76
11:54	53.4	101	1.91	1.93	3.76
11:55	54.3	101	1.91	1.93	3.76
11:56	53.4	101	1.91	1.93	3.76

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:57	54.4	101	1.91	1.93	3.76
11:58	53.3	101	1.91	1.93	3.76
11:59	53.7	101	1.91	1.93	3.76
12:00	53.8	101	1.91	1.93	3.76
12:01	53.7	101	1.92	1.93	3.76
12:02	53.8	101	1.92	1.93	3.76
12:03	53.3	101	1.92	1.93	3.76
12:04	53.4	101	1.92	1.93	3.76
12:05	54.2	101	1.92	1.93	3.76
12:06	54.1	101	1.92	1.93	3.77
12:07	53.7	101	1.92	1.93	3.77
12:08	53.5	101	1.92	1.93	3.77
12:09	53.7	101	1.92	1.93	3.77
12:10	53.2	101	1.92	1.93	3.77
12:11	53.6	101	1.92	1.93	3.77
12:12	54.1	101	1.92	1.93	3.77
12:13	53.9	101	1.93	1.93	3.77
12:14	54.9	101	1.93	1.93	3.77
12:15	53.2	101	1.93	1.93	3.77
12:16	53.5	101	1.93	1.93	3.77
12:17	53.3	101	1.93	1.93	3.77
12:18	52.9	101	1.93	1.93	3.78
12:19	52.4	101	1.93	1.93	3.78
12:20	53.7	101	1.93	1.93	3.78
12:21	53.3	101	1.93	1.93	3.78
12:22	53.2	101	1.93	1.93	3.78
12:23	53.4	101	1.93	1.93	3.78
12:24	53.4	101	1.93	1.93	3.78
12:25	53.4	101	1.93	1.93	3.78
12:26	53.3	101	1.93	1.93	3.78
12:27	52.9	101	1.93	1.93	3.78
12:28	53.0	101	1.93	1.93	3.78
12:29	53.6	101	1.93	1.93	3.78
12:30	53.8	101	1.93	1.93	3.78
12:31	53.0	101	1.93	1.93	3.79
12:32	53.7	101	1.93	1.93	3.79
12:33	52.9	101	1.93	1.93	3.79
12:34	53.0	101	1.93	1.93	3.79
12:35	53.3	101	1.93	1.93	3.79
12:36	53.2	101	1.93	1.93	3.79
12:37	53.3	101	1.93	1.93	3.79
12:38	53.0	101	1.93	1.93	3.79
12:39	54.0	101	1.93	1.93	3.78
12:40	54.4	101	1.93	1.93	3.78
12:41	53.6	101	1.93	1.93	3.78
12:42	52.9	101	1.93	1.93	3.78
12:43	53.1	101	1.92	1.93	3.78
12:44	52.9	101	1.92	1.93	3.78
12:45	53.0	101	1.92	1.93	3.78
12:46	53.5	101	1.92	1.93	3.78
12:47	53.4	101	1.92	1.93	3.78
12:48	53.5	101	1.92	1.93	3.77

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 3

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:49	53.2	101	1.92	1.93	3.77
12:50	53.1	101	1.92	1.93	3.77
12:51	52.8	101	1.92	1.93	3.77
Average	53.9	101	1.85	1.88	3.78
Minimum	52.1	101	1.75	1.67	3.73
Maximum	57.2	101	1.93	1.93	3.80

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Unit	Boiler No. 7
Condition:	ICR Test
Run:	4
Date:	06/12/2024
Start Time:	13:30
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	17:43

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,400

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
13:30	1,810	33,889	97,455	1,502	105
13:31	1,810	33,899	97,630	1,503	105
13:32	1,808	33,902	97,511	1,499	105
13:33	1,814	33,889	97,293	1,499	105
13:34	1,812	33,899	97,348	1,499	105
13:35	1,813	33,897	97,436	1,499	105
13:36	1,810	33,896	97,910	1,499	105
13:37	1,816	33,900	97,860	1,498	105
13:38	1,812	33,896	97,718	1,501	105
13:39	1,810	33,895	98,056	1,499	105
13:40	1,806	33,889	97,732	1,504	105
13:41	1,807	33,883	97,887	1,500	105
13:42	1,814	33,886	97,684	1,500	105
13:43	1,809	33,890	97,174	1,502	105
13:44	1,814	33,882	97,606	1,499	105
13:45	1,810	33,883	97,355	1,499	105
13:46	1,808	33,890	97,027	1,498	105
13:47	1,809	33,885	97,216	1,501	105
13:48	1,808	33,891	97,331	1,500	105
13:49	1,808	33,890	97,548	1,500	105
13:50	1,806	33,898	97,534	1,501	105
13:51	1,798	33,907	97,859	1,501	105
13:52	1,810	33,898	98,038	1,500	105
13:53	1,812	33,905	97,656	1,497	105
13:54	1,814	33,906	97,987	1,498	105
13:55	1,812	33,886	97,900	1,498	105
13:56	1,809	33,898	97,765	1,501	105
13:57	1,813	33,884	97,536	1,502	105
13:58	1,811	33,889	97,608	1,502	105
13:59	1,808	33,882	97,509	1,503	105
14:00	1,813	33,892	97,525	1,501	105
14:01	1,816	33,905	97,798	1,501	105
14:02	1,811	33,898	97,777	1,499	105
14:03	1,813	33,901	97,664	1,497	105
14:04	1,811	33,892	97,621	1,498	105
14:05	1,810	33,893	97,561	1,499	105
14:06	1,811	33,685	97,483	1,500	105
14:07	1,808	33,690	97,461	1,502	105
14:08	1,806	33,891	97,199	1,501	105
14:09	1,811	33,890	97,835	1,503	105
14:10	1,813	33,856	97,724	1,500	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
14:11	1,817	33,074	98,056	1,502	105
14:12	1,815	33,050	98,300	1,499	105
14:13	1,815	33,059	97,915	1,498	105
14:14	1,812	33,088	97,578	1,501	105
14:15	1,810	33,431	97,382	1,500	105
14:16	1,806	33,090	96,825	1,500	105
14:17	1,812	33,060	97,332	1,499	105
14:18	1,815	33,065	98,104	1,500	105
14:19	1,809	33,049	98,160	1,501	105
14:20	1,805	33,050	97,571	1,501	105
14:21	1,807	33,052	97,618	1,499	105
14:22	1,810	33,049	97,646	1,499	105
14:23	1,813	33,057	97,629	1,500	105
14:24	1,813	33,058	97,771	1,499	105
14:25	1,812	33,049	97,768	1,499	105
14:26	1,811	33,098	97,767	1,499	105
14:27	1,815	33,848	97,753	1,500	105
14:28	1,810	33,292	97,546	1,503	105
14:29	1,809	33,111	97,495	1,502	105
14:30	1,808	33,080	97,837	1,500	105
14:31	1,811	33,059	98,585	1,500	105
14:32	1,804	33,046	97,942	1,499	105
14:33	1,805	33,055	98,058	1,499	105
14:34	1,805	33,059	97,576	1,501	105
14:35	1,806	33,049	97,503	1,502	105
14:36	1,810	33,051	97,606	1,502	105
14:37	1,810	33,057	97,337	1,502	105
14:38	1,812	33,048	97,365	1,501	105
14:39	1,811	33,056	97,150	1,500	105
14:40	1,809	33,060	96,956	1,499	105
14:41	1,809	33,050	97,422	1,499	105
14:42	1,807	33,050	97,931	1,502	105
14:43	1,814	33,056	97,675	1,500	105
14:44	1,810	33,053	98,164	1,500	105
14:45	1,813	33,049	98,006	1,500	105
14:46	1,813	33,056	97,832	1,499	105
14:47	1,815	33,049	97,827	1,505	105
14:48	1,812	33,048	97,527	1,499	105
14:49	1,809	33,045	97,683	1,501	105
14:50	1,809	33,048	97,691	1,502	105
14:51	1,814	33,054	97,608	1,501	105
14:52	1,809	33,047	97,559	1,499	105
14:53	1,813	33,050	97,742	1,499	105
14:54	1,816	33,049	97,800	1,499	105
14:55	1,809	33,048	97,464	1,499	105
14:56	1,809	33,067	97,726	1,499	105
14:57	1,804	33,050	98,269	1,500	105
14:58	1,809	33,057	97,863	1,500	105
14:59	1,813	33,060	97,575	1,499	105
15:00	1,810	33,047	97,541	1,500	105
15:01	1,809	33,050	97,186	1,499	105
15:02	1,812	33,056	97,391	1,501	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
15:03	1,808	33,055	97,708	1,502	105
15:04	1,806	33,247	97,798	1,499	105
15:05	1,807	33,059	97,947	1,496	105
15:06	1,807	33,051	97,629	1,501	105
15:07	1,807	33,049	97,552	1,500	105
15:08	1,805	33,049	97,395	1,500	105
15:09	1,806	33,052	97,875	1,498	105
15:10	1,806	33,046	97,521	1,499	105
15:11	1,805	33,051	97,855	1,503	105
15:12	1,808	33,050	97,770	1,502	105
15:13	1,805	33,049	97,918	1,501	105
15:14	1,807	33,050	97,794	1,502	105
15:15	1,807	33,059	97,522	1,499	105
15:16	1,807	33,081	97,697	1,499	105
15:17	1,809	33,635	97,524	1,499	105
15:18	1,815	33,864	97,459	1,500	105
15:19	1,810	33,277	97,565	1,501	105
15:20	1,803	33,106	97,497	1,504	105
15:21	1,803	33,057	97,915	1,498	105
15:22	1,803	33,054	97,476	1,498	105
15:23	1,802	33,056	97,566	1,497	105
15:24	1,806	33,052	97,744	1,502	105
15:25	1,804	33,049	97,705	1,502	105
15:26	1,805	33,043	98,100	1,500	105
15:27	1,808	33,048	97,764	1,499	105
15:28	1,804	33,058	98,027	1,501	105
15:29	1,807	33,057	97,631	1,501	105
15:30	1,802	33,050	97,394	1,499	105
15:31	1,799	33,057	97,408	1,499	105
15:32	1,802	33,046	97,262	1,502	105
15:33	1,799	33,049	97,769	1,501	105
15:34	1,799	33,042	97,441	1,497	105
15:35	1,793	33,087	97,656	1,499	105
15:36	1,791	33,768	97,702	1,499	105
15:37	1,792	33,898	97,615	1,501	105
15:38	1,801	33,885	97,720	1,501	105
15:39	1,800	33,884	97,667	1,501	105
15:40	1,803	33,903	97,824	1,500	105
15:41	1,804	33,899	97,707	1,501	105
15:42	1,806	33,906	97,416	1,501	105
15:43	1,804	33,906	97,526	1,501	105
15:44	1,799	33,903	97,651	1,499	105
15:45	1,801	33,910	97,737	1,499	105
15:46	1,806	33,893	97,397	1,500	105
15:47	1,807	33,885	97,523	1,501	105
15:48	1,806	33,900	97,587	1,497	105
15:49	1,808	33,887	97,439	1,500	105
15:50	1,800	33,884	97,481	1,502	105
15:51	1,805	33,907	98,120	1,502	105
15:52	1,807	33,907	98,213	1,497	105
15:53	1,801	33,891	98,114	1,501	105
15:54	1,804	33,888	97,791	1,499	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
15:55	1,803	33,903	97,218	1,499	105
15:56	1,800	33,881	96,797	1,500	105
15:57	1,800	33,893	97,088	1,500	105
15:58	1,798	33,887	97,295	1,500	105
15:59	1,799	33,887	97,727	1,497	105
16:00	1,801	33,900	97,952	1,502	105
16:01	1,805	33,892	97,867	1,501	105
16:02	1,805	33,883	97,796	1,500	105
16:03	1,803	33,884	98,039	1,500	105
16:04	1,803	33,900	97,441	1,503	105
16:05	1,800	33,899	97,496	1,499	105
16:06	1,801	33,901	97,466	1,498	105
16:07	1,798	33,904	97,817	1,500	105
16:08	1,804	33,898	97,587	1,500	105
16:09	1,805	33,907	97,591	1,503	105
16:10	1,805	33,889	97,748	1,500	105
16:11	1,805	33,904	97,815	1,498	105
16:12	1,805	33,887	97,413	1,501	105
16:13	1,805	33,907	97,874	1,501	105
16:14	1,805	33,887	98,715	1,500	105
16:15	1,806	33,892	97,596	1,501	105
16:16	1,806	33,893	97,886	1,500	105
16:17	1,808	33,907	97,869	1,499	105
16:18	1,803	33,900	97,284	1,497	105
16:19	1,808	33,887	97,391	1,500	105
16:20	1,807	33,908	97,207	1,498	105
16:21	1,801	33,899	97,501	1,499	105
16:22	1,801	33,890	97,770	1,500	105
16:23	1,801	33,884	98,117	1,501	105
16:24	1,799	33,905	98,029	1,499	105
16:25	1,796	33,903	97,637	1,501	105
16:26	1,792	33,907	97,740	1,498	105
16:27	1,798	33,905	97,278	1,496	105
16:28	1,799	33,890	97,393	1,500	105
16:29	1,800	33,885	97,860	1,500	105
16:30	1,808	33,893	97,851	1,501	105
16:31	1,808	33,885	97,762	1,504	105
16:32	1,808	33,892	97,947	1,501	105
16:33	1,803	33,899	97,885	1,498	105
16:34	1,800	33,907	97,804	1,501	105
16:35	1,796	33,902	98,302	1,499	105
16:36	1,799	33,908	98,056	1,500	105
16:37	1,795	33,907	98,303	1,501	105
16:38	1,802	33,906	97,674	1,501	105
16:39	1,805	33,889	97,444	1,500	105
16:40	1,805	33,893	97,923	1,500	105
16:41	1,803	33,908	97,482	1,501	105
16:42	1,802	33,906	97,860	1,501	105
16:43	1,804	33,887	97,505	1,498	105
16:44	1,804	33,894	97,664	1,500	105
16:45	1,805	33,889	97,600	1,498	105
16:46	1,804	33,898	97,232	1,499	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
16:47	1,802	33,889	97,534	1,500	105
16:48	1,804	33,908	97,334	1,500	105
16:49	1,805	33,907	98,175	1,500	105
16:50	1,808	33,896	97,755	1,500	105
16:51	1,805	33,895	97,751	1,499	105
16:52	1,801	33,903	97,566	1,500	105
16:53	1,802	33,895	97,682	1,504	105
16:54	1,804	33,903	97,998	1,500	105
16:55	1,799	33,899	97,958	1,500	105
16:56	1,809	33,890	97,997	1,497	105
16:57	1,813	33,891	97,875	1,500	105
16:58	1,807	33,891	97,747	1,503	105
16:59	1,800	33,878	98,152	1,502	105
17:00	1,805	33,884	97,361	1,499	105
17:01	1,799	33,885	98,032	1,499	105
17:02	1,802	33,897	97,702	1,498	105
17:03	1,802	33,890	97,572	1,504	105
17:04	1,801	33,897	97,463	1,500	105
17:05	1,801	33,899	97,313	1,501	105
17:06	1,805	33,899	97,750	1,499	105
17:07	1,807	33,901	97,426	1,499	105
17:08	1,804	33,909	98,021	1,500	105
17:09	1,803	33,898	97,742	1,500	105
17:10	1,803	33,880	97,783	1,500	105
17:11	1,802	33,881	97,695	1,502	105
17:12	1,806	33,877	98,197	1,499	105
17:13	1,804	33,900	97,790	1,499	105
17:14	1,802	33,892	97,729	1,498	105
17:15	1,798	33,907	97,714	1,500	105
17:16	1,799	33,910	97,618	1,501	105
17:17	1,801	33,906	97,551	1,501	105
17:18	1,798	33,897	97,638	1,501	105
17:19	1,795	33,883	97,602	1,501	105
17:20	1,795	33,898	97,734	1,499	105
17:21	1,807	33,908	97,590	1,499	105
17:22	1,804	33,883	97,929	1,500	105
17:23	1,800	33,882	97,846	1,504	105
17:24	1,797	33,882	97,785	1,499	105
17:25	1,795	33,897	97,573	1,500	105
17:26	1,802	33,880	97,627	1,497	105
17:27	1,804	33,888	97,671	1,499	105
17:28	1,804	33,891	97,635	1,500	105
17:29	1,801	33,892	97,789	1,500	105
17:30	1,803	33,898	97,532	1,498	105
17:31	1,805	33,899	97,804	1,502	105
17:32	1,804	33,901	98,087	1,501	105
17:33	1,801	33,898	97,790	1,499	105
17:34	1,808	33,892	97,724	1,499	105
17:35	1,808	33,897	97,636	1,499	105
17:36	1,810	33,882	97,443	1,500	105
17:37	1,805	33,893	97,657	1,503	105
17:38	1,807	33,884	97,682	1,502	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/12/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
17:39	1,804	33,898	97,672	1,501	105
17:40	1,803	33,895	97,655	1,498	105
17:41	1,808	33,893	97,630	1,502	105
17:42	1,809	33,889	97,597	1,501	105
17:43	1,811	33,889	97,681	1,498	105
Average	1,806	33,625	97,678	1,500	105
Minimum	1,791	33,042	96,797	1,496	105
Maximum	1,817	33,910	98,715	1,505	105

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Unit	Boiler No. 7
Condition:	ICR Test
Run:	4
Date:	06/12/2024
Start Time:	13:30
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	17:43

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:30	54.9	101	1.92	1.92	3.78
13:31	54.8	101	1.92	1.92	3.78
13:32	54.5	101	1.92	1.92	3.78
13:33	54.7	101	1.92	1.92	3.78
13:34	55.3	101	1.92	1.92	3.77
13:35	54.7	101	1.92	1.92	3.77
13:36	55.1	101	1.92	1.92	3.77
13:37	55.7	101	1.92	1.92	3.77
13:38	55.6	101	1.92	1.92	3.77
13:39	55.5	101	1.92	1.92	3.77
13:40	55.2	101	1.92	1.92	3.77
13:41	55.0	101	1.92	1.92	3.77
13:42	55.2	101	1.92	1.92	3.77
13:43	55.8	101	1.92	1.92	3.77
13:44	56.0	101	1.92	1.92	3.77
13:45	55.6	101	1.92	1.92	3.77
13:46	55.6	101	1.92	1.92	3.77
13:47	55.0	101	1.92	1.92	3.77
13:48	54.8	101	1.92	1.92	3.77
13:49	54.6	101	1.92	1.92	3.77
13:50	55.2	101	1.92	1.92	3.77
13:51	56.0	101	1.92	1.92	3.77
13:52	55.4	101	1.92	1.92	3.77
13:53	54.7	101	1.92	1.92	3.77
13:54	54.8	101	1.92	1.92	3.77
13:55	55.0	101	1.92	1.92	3.77
13:56	56.2	101	1.92	1.92	3.77
13:57	55.0	101	1.92	1.92	3.76
13:58	54.2	101	1.92	1.92	3.76
13:59	55.3	101	1.92	1.92	3.76
14:00	55.6	101	1.92	1.92	3.76
14:01	55.6	101	1.92	1.92	3.76
14:02	55.5	101	1.92	1.92	3.76
14:03	55.6	101	1.91	1.92	3.76
14:04	54.9	101	1.91	1.92	3.76
14:05	55.3	101	1.91	1.92	3.76
14:06	55.2	101	1.91	1.92	3.76
14:07	54.8	101	1.91	1.92	3.76
14:08	56.0	101	1.91	1.92	3.76
14:09	55.1	101	1.91	1.92	3.76
14:10	55.4	101	1.91	1.92	3.76

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:11	55.5	101	1.91	1.92	3.76
14:12	54.6	101	1.91	1.92	3.76
14:13	54.8	101	1.91	1.92	3.76
14:14	55.3	101	1.91	1.92	3.76
14:15	55.7	101	1.91	1.92	3.76
14:16	56.4	101	1.91	1.92	3.76
14:17	54.6	101	1.91	1.92	3.76
14:18	55.2	101	1.91	1.92	3.76
14:19	56.0	101	1.91	1.92	3.76
14:20	55.5	101	1.91	1.92	3.76
14:21	54.3	101	1.91	1.92	3.76
14:22	54.4	101	1.91	1.92	3.76
14:23	54.6	101	1.91	1.92	3.76
14:24	54.7	101	1.91	1.92	3.76
14:25	55.8	101	1.91	1.92	3.76
14:26	55.1	101	1.91	1.92	3.76
14:27	54.9	101	1.91	1.92	3.77
14:28	55.9	101	1.91	1.92	3.77
14:29	55.6	101	1.91	1.92	3.77
14:30	55.8	101	1.91	1.92	3.77
14:31	55.7	101	1.91	1.92	3.77
14:32	55.3	101	1.91	1.92	3.77
14:33	55.9	101	1.91	1.92	3.77
14:34	55.4	101	1.91	1.92	3.77
14:35	55.1	101	1.91	1.92	3.77
14:36	55.3	101	1.91	1.92	3.77
14:37	54.9	101	1.91	1.92	3.77
14:38	56.1	101	1.91	1.92	3.77
14:39	56.0	101	1.91	1.92	3.77
14:40	55.6	101	1.91	1.92	3.77
14:41	55.3	101	1.91	1.92	3.77
14:42	54.7	101	1.91	1.92	3.78
14:43	54.9	101	1.91	1.92	3.78
14:44	54.1	101	1.91	1.92	3.78
14:45	54.2	101	1.91	1.92	3.78
14:46	55.4	101	1.91	1.92	3.78
14:47	54.6	101	1.91	1.92	3.78
14:48	55.5	101	1.91	1.92	3.78
14:49	55.3	101	1.91	1.92	3.78
14:50	55.7	101	1.91	1.92	3.78
14:51	55.6	101	1.91	1.92	3.78
14:52	55.1	101	1.91	1.92	3.78
14:53	55.6	101	1.91	1.92	3.78
14:54	55.3	101	1.91	1.92	3.78
14:55	55.0	101	1.91	1.92	3.78
14:56	55.6	101	1.91	1.92	3.78
14:57	55.9	101	1.91	1.92	3.78
14:58	55.0	101	1.91	1.92	3.78
14:59	55.8	101	1.91	1.92	3.78
15:00	55.9	101	1.91	1.92	3.78
15:01	56.0	101	1.91	1.92	3.78
15:02	56.2	101	1.91	1.92	3.77

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:03	55.6	101	1.91	1.92	3.77
15:04	55.7	101	1.91	1.92	3.77
15:05	54.7	101	1.91	1.92	3.77
15:06	55.7	101	1.91	1.92	3.77
15:07	56.5	101	1.91	1.92	3.77
15:08	56.3	101	1.91	1.92	3.76
15:09	56.6	101	1.91	1.92	3.76
15:10	55.5	101	1.91	1.92	3.76
15:11	54.6	101	1.91	1.92	3.76
15:12	54.8	101	1.91	1.92	3.76
15:13	55.8	101	1.91	1.92	3.76
15:14	56.0	101	1.91	1.92	3.76
15:15	55.1	101	1.91	1.92	3.75
15:16	55.4	101	1.91	1.92	3.75
15:17	55.5	101	1.91	1.92	3.75
15:18	55.1	101	1.91	1.92	3.75
15:19	55.1	101	1.91	1.92	3.75
15:20	56.2	101	1.91	1.92	3.75
15:21	55.1	101	1.91	1.92	3.75
15:22	55.3	101	1.91	1.92	3.76
15:23	55.6	101	1.90	1.92	3.76
15:24	55.1	101	1.90	1.92	3.76
15:25	55.0	101	1.90	1.92	3.77
15:26	55.9	101	1.90	1.92	3.77
15:27	56.8	101	1.90	1.92	3.78
15:28	55.9	101	1.90	1.92	3.78
15:29	54.9	101	1.90	1.92	3.79
15:30	56.0	101	1.90	1.92	3.80
15:31	56.1	101	1.90	1.92	3.81
15:32	55.1	101	1.90	1.92	3.82
15:33	55.4	101	1.90	1.92	3.82
15:34	55.7	101	1.90	1.92	3.83
15:35	55.6	101	1.90	1.92	3.84
15:36	55.9	101	1.90	1.92	3.85
15:37	55.2	101	1.90	1.92	3.86
15:38	55.1	101	1.90	1.92	3.84
15:39	55.1	101	1.90	1.92	3.81
15:40	55.0	101	1.90	1.92	3.79
15:41	54.6	101	1.90	1.92	3.79
15:42	54.1	101	1.90	1.92	3.79
15:43	54.9	101	1.90	1.92	3.79
15:44	55.0	101	1.90	1.92	3.79
15:45	55.5	101	1.90	1.92	3.79
15:46	55.6	101	1.90	1.92	3.79
15:47	55.8	101	1.90	1.92	3.79
15:48	55.9	101	1.90	1.92	3.79
15:49	55.2	101	1.90	1.92	3.79
15:50	56.3	101	1.90	1.92	3.79
15:51	55.7	101	1.90	1.92	3.79
15:52	55.6	101	1.90	1.92	3.79
15:53	55.3	101	1.90	1.92	3.79
15:54	55.3	101	1.90	1.92	3.79

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:55	55.2	101	1.90	1.92	3.79
15:56	54.8	101	1.90	1.92	3.79
15:57	55.9	101	1.90	1.92	3.79
15:58	55.4	101	1.90	1.92	3.78
15:59	55.6	101	1.90	1.92	3.78
16:00	54.6	101	1.90	1.92	3.78
16:01	55.2	101	1.90	1.92	3.78
16:02	55.4	101	1.90	1.92	3.78
16:03	55.7	101	1.90	1.92	3.78
16:04	55.3	101	1.90	1.92	3.78
16:05	54.4	101	1.90	1.92	3.78
16:06	54.7	101	1.90	1.92	3.78
16:07	55.1	101	1.90	1.92	3.78
16:08	54.7	101	1.90	1.92	3.78
16:09	54.6	101	1.90	1.92	3.78
16:10	54.8	101	1.90	1.92	3.78
16:11	54.9	101	1.90	1.92	3.77
16:12	55.5	101	1.90	1.92	3.77
16:13	54.7	101	1.90	1.92	3.77
16:14	54.6	101	1.90	1.92	3.77
16:15	54.5	101	1.90	1.92	3.77
16:16	54.1	101	1.90	1.92	3.77
16:17	53.7	101	1.90	1.92	3.77
16:18	54.5	101	1.89	1.92	3.77
16:19	53.8	101	1.89	1.92	3.76
16:20	53.7	101	1.89	1.92	3.76
16:21	54.4	101	1.89	1.92	3.76
16:22	54.2	101	1.88	1.92	3.76
16:23	54.2	101	1.88	1.92	3.76
16:24	55.6	101	1.88	1.92	3.76
16:25	55.0	101	1.88	1.92	3.76
16:26	54.6	101	1.87	1.92	3.76
16:27	54.4	101	1.87	1.92	3.76
16:28	54.0	101	1.87	1.92	3.76
16:29	54.6	101	1.87	1.92	3.76
16:30	54.4	101	1.86	1.92	3.76
16:31	54.0	101	1.86	1.92	3.76
16:32	53.7	101	1.86	1.92	3.76
16:33	54.4	101	1.86	1.92	3.76
16:34	53.7	101	1.85	1.92	3.76
16:35	53.5	101	1.85	1.92	3.76
16:36	54.5	101	1.85	1.92	3.76
16:37	53.6	101	1.85	1.92	3.76
16:38	53.9	101	1.85	1.92	3.76
16:39	53.6	101	1.84	1.92	3.76
16:40	54.0	101	1.84	1.92	3.76
16:41	53.2	101	1.84	1.92	3.76
16:42	53.8	101	1.84	1.92	3.76
16:43	53.6	101	1.83	1.92	3.76
16:44	53.3	101	1.83	1.92	3.76
16:45	53.1	101	1.83	1.92	3.76
16:46	54.6	101	1.83	1.92	3.76

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
16:47	53.1	101	1.82	1.92	3.76
16:48	52.4	101	1.82	1.92	3.76
16:49	53.9	101	1.82	1.92	3.76
16:50	52.8	101	1.82	1.92	3.76
16:51	52.3	101	1.81	1.92	3.76
16:52	54.0	101	1.81	1.92	3.76
16:53	53.7	101	1.81	1.92	3.76
16:54	53.5	101	1.81	1.92	3.76
16:55	53.4	101	1.80	1.92	3.76
16:56	53.1	101	1.80	1.92	3.76
16:57	52.5	101	1.80	1.92	3.76
16:58	53.0	101	1.80	1.92	3.76
16:59	54.3	101	1.79	1.92	3.76
17:00	52.9	101	1.79	1.92	3.76
17:01	53.7	101	1.79	1.92	3.75
17:02	52.3	101	1.79	1.92	3.75
17:03	53.0	101	1.78	1.92	3.75
17:04	52.8	101	1.78	1.92	3.75
17:05	52.4	101	1.78	1.92	3.76
17:06	52.9	101	1.78	1.92	3.76
17:07	53.5	101	1.77	1.92	3.76
17:08	53.7	101	1.77	1.92	3.76
17:09	52.9	101	1.77	1.92	3.76
17:10	53.0	101	1.77	1.92	3.76
17:11	52.3	101	1.76	1.92	3.76
17:12	52.4	101	1.76	1.92	3.77
17:13	52.2	101	1.76	1.92	3.77
17:14	52.5	101	1.76	1.92	3.77
17:15	51.6	101	1.75	1.92	3.77
17:16	52.4	101	1.75	1.92	3.77
17:17	52.6	101	1.75	1.92	3.77
17:18	53.5	101	1.75	1.92	3.77
17:19	52.7	101	1.74	1.92	3.78
17:20	52.7	101	1.74	1.92	3.78
17:21	52.2	101	1.74	1.92	3.78
17:22	52.0	101	1.74	1.92	3.78
17:23	52.3	101	1.74	1.92	3.78
17:24	52.4	101	1.73	1.92	3.78
17:25	52.2	101	1.73	1.92	3.78
17:26	52.2	101	1.73	1.92	3.79
17:27	52.4	101	1.73	1.92	3.79
17:28	53.0	101	1.72	1.92	3.79
17:29	52.1	101	1.72	1.92	3.79
17:30	52.1	101	1.72	1.92	3.79
17:31	52.7	101	1.72	1.92	3.79
17:32	51.6	101	1.71	1.92	3.80
17:33	52.9	101	1.71	1.92	3.80
17:34	52.6	101	1.71	1.92	3.80
17:35	52.6	101	1.71	1.92	3.80
17:36	52.0	101	1.70	1.92	3.80
17:37	52.9	101	1.70	1.92	3.80
17:38	52.6	101	1.70	1.92	3.80

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 4

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/12/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
17:39	51.9	101	1.70	1.92	3.81
17:40	52.1	101	1.69	1.92	3.81
17:41	52.4	101	1.69	1.92	3.81
17:42	51.6	101	1.69	1.92	3.81
17:43	51.9	101	1.69	1.92	3.81
Average	54.6	101	1.87	1.92	3.77
Minimum	51.6	101	1.69	1.92	3.75
Maximum	56.8	101	1.92	1.92	3.86

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Unit	Boiler No. 7
Condition:	ICR Test
Run:	5
Date:	06/13/2024
Start Time:	08:10
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:14

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,400

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
08:10	1,797	33,879	99,152	1,501	109
08:11	1,800	33,875	99,188	1,500	109
08:12	1,800	33,891	99,242	1,499	108
08:13	1,802	34,303	99,323	1,502	109
08:14	1,800	34,693	99,248	1,503	109
08:15	1,800	34,700	99,464	1,503	109
08:16	1,803	34,708	99,106	1,499	109
08:17	1,802	34,702	99,450	1,495	109
08:18	1,805	34,697	99,298	1,505	109
08:19	1,803	34,701	99,213	1,502	109
08:20	1,805	34,707	99,201	1,502	109
08:21	1,807	34,700	99,415	1,500	109
08:22	1,807	34,700	99,342	1,497	109
08:23	1,807	34,701	99,207	1,503	109
08:24	1,806	34,697	98,929	1,503	109
08:25	1,803	34,700	99,204	1,498	108
08:26	1,803	34,699	99,012	1,501	108
08:27	1,802	34,698	99,140	1,497	108
08:28	1,796	34,705	98,922	1,504	109
08:29	1,804	34,700	99,207	1,501	108
08:30	1,807	34,705	98,834	1,496	107
08:31	1,798	34,699	98,613	1,501	108
08:32	1,795	34,699	98,376	1,501	108
08:33	1,797	34,698	98,473	1,499	108
08:34	1,800	34,700	98,518	1,497	108
08:35	1,797	34,705	98,794	1,501	108
08:36	1,797	34,701	98,658	1,500	108
08:37	1,800	34,699	98,737	1,500	108
08:38	1,800	34,699	98,671	1,499	107
08:39	1,802	34,699	98,277	1,499	107
08:40	1,802	34,700	97,987	1,501	108
08:41	1,800	34,698	97,962	1,500	107
08:42	1,804	34,699	97,815	1,500	108
08:43	1,799	34,708	98,212	1,499	108
08:44	1,793	34,695	98,193	1,500	107
08:45	1,798	34,700	98,216	1,500	107
08:46	1,794	34,709	97,836	1,502	106
08:47	1,804	34,700	97,821	1,498	106
08:48	1,800	34,697	97,690	1,498	107
08:49	1,799	34,702	97,446	1,502	107
08:50	1,798	34,699	97,559	1,499	106

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
08:51	1,798	34,701	97,521	1,501	107
08:52	1,798	34,699	97,806	1,500	106
08:53	1,792	34,709	97,567	1,500	107
08:54	1,789	34,699	97,544	1,499	106
08:55	1,795	34,698	97,421	1,499	106
08:56	1,791	34,706	97,418	1,501	106
08:57	1,796	34,699	97,420	1,498	107
08:58	1,792	34,692	97,673	1,499	106
08:59	1,790	34,700	97,763	1,499	106
09:00	1,794	34,698	97,657	1,500	106
09:01	1,794	34,700	97,540	1,502	106
09:02	1,796	34,698	97,598	1,499	106
09:03	1,793	34,701	97,679	1,496	106
09:04	1,791	34,699	97,375	1,500	106
09:05	1,791	34,713	97,460	1,500	106
09:06	1,799	34,698	97,734	1,504	106
09:07	1,793	34,700	97,430	1,503	107
09:08	1,791	34,700	97,582	1,501	107
09:09	1,794	34,705	97,517	1,500	106
09:10	1,791	34,709	97,470	1,500	106
09:11	1,790	34,706	97,578	1,499	106
09:12	1,790	34,699	97,601	1,499	106
09:13	1,785	34,708	97,435	1,500	106
09:14	1,789	34,707	97,601	1,499	106
09:15	1,789	34,700	97,296	1,498	106
09:16	1,794	34,708	97,396	1,500	107
09:17	1,795	34,696	97,420	1,503	106
09:18	1,796	34,713	97,470	1,501	106
09:19	1,791	34,699	97,556	1,500	106
09:20	1,792	34,700	97,667	1,500	106
09:21	1,794	34,699	97,602	1,500	106
09:22	1,794	34,700	97,428	1,500	106
09:23	1,789	34,715	97,635	1,503	106
09:24	1,790	34,706	97,144	1,501	106
09:25	1,797	34,699	97,020	1,498	105
09:26	1,787	34,700	96,547	1,498	105
09:27	1,788	34,698	96,602	1,502	105
09:28	1,790	34,699	96,661	1,500	105
09:29	1,790	34,697	96,684	1,500	105
09:30	1,791	34,707	96,774	1,500	105
09:31	1,790	34,705	96,588	1,501	105
09:32	1,792	34,701	96,579	1,498	105
09:33	1,791	34,705	96,518	1,495	105
09:34	1,793	34,698	96,504	1,501	105
09:35	1,798	34,714	96,557	1,499	105
09:36	1,793	34,701	96,698	1,499	105
09:37	1,790	34,700	96,359	1,498	105
09:38	1,789	34,660	96,459	1,500	105
09:39	1,788	33,985	96,567	1,500	105
09:40	1,795	33,883	96,660	1,501	104
09:41	1,794	33,882	96,652	1,501	104
09:42	1,790	33,872	96,705	1,501	104

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
09:43	1,790	33,881	96,504	1,501	104
09:44	1,788	33,870	96,358	1,498	105
09:45	1,789	33,876	96,466	1,499	105
09:46	1,789	33,873	96,226	1,502	105
09:47	1,793	33,876	96,643	1,497	105
09:48	1,790	33,893	96,395	1,498	105
09:49	1,788	33,885	96,355	1,499	105
09:50	1,791	33,871	96,498	1,503	105
09:51	1,791	33,891	96,560	1,501	105
09:52	1,791	33,880	96,622	1,502	104
09:53	1,793	33,884	96,275	1,502	105
09:54	1,789	33,876	96,384	1,499	105
09:55	1,795	33,882	96,743	1,496	105
09:56	1,796	33,867	96,595	1,498	104
09:57	1,793	33,872	96,327	1,496	105
09:58	1,791	33,878	96,625	1,503	105
09:59	1,794	33,874	96,530	1,501	104
10:00	1,786	33,873	96,414	1,499	105
10:01	1,793	33,874	96,633	1,498	105
10:02	1,788	33,879	96,326	1,501	105
10:03	1,791	33,873	96,645	1,503	105
10:04	1,796	33,872	96,324	1,499	105
10:05	1,797	33,875	96,764	1,498	105
10:06	1,791	33,876	96,420	1,501	105
10:07	1,789	33,872	96,720	1,499	104
10:08	1,793	33,880	96,284	1,500	105
10:09	1,796	33,876	96,784	1,500	105
10:10	1,796	33,885	96,503	1,500	104
10:11	1,792	33,884	96,459	1,500	105
10:12	1,794	33,872	96,099	1,500	104
10:13	1,792	33,874	96,129	1,500	104
10:14	1,798	33,881	96,094	1,498	104
10:15	1,796	33,878	95,991	1,499	105
10:16	1,797	33,885	96,205	1,497	104
10:17	1,793	33,877	96,014	1,502	105
10:18	1,795	33,890	96,232	1,500	104
10:19	1,790	33,874	95,829	1,499	104
10:20	1,786	33,875	96,142	1,498	104
10:21	1,795	33,876	96,410	1,498	103
10:22	1,785	33,876	95,857	1,504	104
10:23	1,795	33,881	96,030	1,500	104
10:24	1,796	33,885	95,817	1,496	104
10:25	1,790	33,882	96,138	1,502	104
10:26	1,796	33,882	95,846	1,502	104
10:27	1,796	33,894	95,972	1,502	104
10:28	1,792	33,884	95,898	1,501	104
10:29	1,788	33,871	95,950	1,500	104
10:30	1,792	33,875	95,986	1,501	103
10:31	1,799	33,885	95,439	1,501	104
10:32	1,793	33,885	95,843	1,501	104
10:33	1,786	33,895	95,374	1,499	104
10:34	1,791	33,880	95,574	1,499	103

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
10:35	1,795	33,874	95,579	1,498	103
10:36	1,793	33,888	95,584	1,499	103
10:37	1,795	33,882	95,717	1,502	103
10:38	1,792	33,869	95,431	1,500	103
10:39	1,795	33,875	95,526	1,500	103
10:40	1,787	33,872	95,712	1,499	103
10:41	1,788	33,876	95,325	1,500	103
10:42	1,793	33,878	95,487	1,500	103
10:43	1,791	33,878	95,596	1,500	103
10:44	1,791	33,874	95,270	1,502	103
10:45	1,798	33,871	95,656	1,502	103
10:46	1,800	33,882	95,397	1,499	104
10:47	1,795	33,873	95,662	1,500	103
10:48	1,791	33,882	95,426	1,502	103
10:49	1,785	33,873	95,807	1,501	103
10:50	1,790	33,883	95,303	1,501	103
10:51	1,788	33,872	95,538	1,502	103
10:52	1,794	33,891	95,542	1,502	103
10:53	1,789	33,874	95,400	1,496	104
10:54	1,792	33,874	95,548	1,496	103
10:55	1,796	33,874	95,527	1,498	103
10:56	1,792	33,881	95,443	1,501	104
10:57	1,798	33,875	95,683	1,500	103
10:58	1,795	33,873	95,282	1,500	104
10:59	1,793	33,875	95,735	1,500	104
11:00	1,793	33,883	95,376	1,500	104
11:01	1,790	33,876	95,426	1,501	104
11:02	1,789	33,896	95,728	1,501	103
11:03	1,794	33,877	95,335	1,501	103
11:04	1,795	33,881	95,756	1,501	103
11:05	1,791	33,881	95,325	1,498	103
11:06	1,791	33,896	95,503	1,498	103
11:07	1,788	33,874	95,261	1,500	103
11:08	1,797	33,890	94,992	1,499	103
11:09	1,794	33,882	95,508	1,501	102
11:10	1,792	33,882	95,264	1,499	103
11:11	1,790	33,880	95,042	1,500	103
11:12	1,797	33,875	95,024	1,502	103
11:13	1,790	33,881	94,952	1,502	103
11:14	1,800	33,880	95,277	1,502	102
11:15	1,792	33,885	94,892	1,500	103
11:16	1,791	33,879	95,297	1,497	102
11:17	1,793	33,875	94,699	1,501	103
11:18	1,793	33,883	95,166	1,503	103
11:19	1,793	33,877	94,829	1,501	103
11:20	1,791	33,882	94,894	1,499	103
11:21	1,795	33,879	95,107	1,498	103
11:22	1,793	33,896	94,959	1,501	102
11:23	1,793	33,892	95,028	1,501	103
11:24	1,789	33,889	95,244	1,499	102
11:25	1,789	33,891	94,823	1,499	103
11:26	1,789	33,898	95,610	1,499	102

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
11:27	1,793	33,883	94,684	1,500	103
11:28	1,792	33,874	94,877	1,502	103
11:29	1,796	33,883	95,071	1,501	103
11:30	1,791	33,888	95,287	1,499	102
11:31	1,789	33,874	94,880	1,500	103
11:32	1,793	33,873	94,732	1,499	103
11:33	1,792	33,875	94,877	1,499	102
11:34	1,787	33,875	95,154	1,499	102
11:35	1,792	33,883	94,983	1,500	103
11:36	1,798	33,889	95,207	1,505	102
11:37	1,794	33,875	95,011	1,502	102
11:38	1,795	33,875	94,893	1,499	102
11:39	1,789	33,891	94,873	1,499	102
11:40	1,792	33,875	94,869	1,499	103
11:41	1,794	33,881	94,838	1,500	103
11:42	1,789	33,875	95,113	1,502	103
11:43	1,794	33,883	95,199	1,500	102
11:44	1,795	33,873	95,254	1,500	102
11:45	1,794	33,876	95,131	1,498	102
11:46	1,794	33,874	94,912	1,498	102
11:47	1,795	33,886	94,948	1,500	103
11:48	1,799	33,889	95,034	1,500	102
11:49	1,791	33,893	95,048	1,501	103
11:50	1,793	33,892	95,012	1,501	102
11:51	1,791	33,889	95,058	1,501	102
11:52	1,790	33,883	95,168	1,501	102
11:53	1,791	33,888	94,673	1,499	103
11:54	1,792	33,876	94,911	1,498	103
11:55	1,796	33,883	94,955	1,499	102
11:56	1,789	33,873	95,197	1,501	102
11:57	1,793	33,873	95,008	1,497	102
11:58	1,793	33,875	95,089	1,501	102
11:59	1,800	33,878	95,019	1,506	102
12:00	1,796	33,879	94,914	1,501	103
12:01	1,788	33,872	95,049	1,498	103
12:02	1,797	33,881	95,158	1,497	102
12:03	1,796	33,883	95,172	1,499	102
12:04	1,793	33,883	94,864	1,500	103
12:05	1,793	33,879	94,885	1,500	102
12:06	1,794	33,886	95,096	1,498	103
12:07	1,796	33,883	94,887	1,502	102
12:08	1,792	33,881	94,842	1,500	102
12:09	1,784	33,875	94,835	1,501	103
12:10	1,796	33,885	95,178	1,499	102
12:11	1,789	33,876	95,017	1,498	102
12:12	1,789	33,888	95,158	1,497	102
12:13	1,791	33,888	95,121	1,500	102
12:14	1,790	33,880	95,060	1,502	102
Average	1,794	34,167	96,433	1,500	105
Minimum	1,784	33,867	94,673	1,495	102
Maximum	1,807	34,715	99,464	1,506	109

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Unit	Boiler No. 7
Condition:	ICR Test
Run:	5
Date:	06/13/2024
Start Time:	08:10
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:14

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:10	54.1	101	2.04	1.61	3.98
08:11	53.6	101	2.04	1.61	3.98
08:12	52.9	101	2.05	1.61	3.98
08:13	53.6	101	2.05	1.62	3.98
08:14	53.3	101	2.05	1.62	3.98
08:15	52.4	101	2.06	1.62	3.98
08:16	53.1	101	2.06	1.62	3.98
08:17	53.6	101	2.06	1.63	3.98
08:18	52.8	101	2.06	1.63	3.98
08:19	53.3	101	2.06	1.63	3.98
08:20	53.6	101	2.06	1.63	3.98
08:21	53.8	101	2.06	1.64	3.98
08:22	53.9	101	2.06	1.64	3.98
08:23	54.4	101	2.06	1.64	3.98
08:24	53.6	101	2.06	1.65	3.98
08:25	54.3	101	2.06	1.65	3.98
08:26	53.7	100	2.06	1.65	3.98
08:27	53.2	100	2.06	1.65	3.98
08:28	53.6	100	2.06	1.66	3.98
08:29	53.3	100	2.06	1.66	3.98
08:30	53.9	100	2.06	1.66	3.98
08:31	54.4	100	2.06	1.67	3.98
08:32	53.8	100	2.06	1.67	3.98
08:33	53.9	100	2.06	1.67	3.98
08:34	53.1	100	2.05	1.67	3.98
08:35	54.4	100	2.05	1.68	3.98
08:36	54.9	100	2.05	1.68	3.98
08:37	55.5	100	2.05	1.68	3.98
08:38	53.2	100	2.05	1.68	3.98
08:39	53.8	100	2.05	1.69	3.98
08:40	53.6	100	2.05	1.69	3.98
08:41	53.0	100	2.05	1.69	3.99
08:42	53.4	100	2.05	1.70	3.99
08:43	53.8	100	2.05	1.70	3.99
08:44	54.6	100	2.05	1.70	3.99
08:45	54.6	100	2.05	1.70	3.99
08:46	54.8	100	2.05	1.71	3.99
08:47	53.9	100	2.05	1.71	3.99
08:48	54.0	100	2.05	1.71	3.99
08:49	53.9	100	2.05	1.72	3.99
08:50	54.2	100	2.05	1.72	3.99

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:51	54.5	100	2.05	1.72	3.99
08:52	54.3	100	2.05	1.72	3.99
08:53	54.8	100	2.05	1.73	3.99
08:54	55.8	100	2.05	1.73	3.99
08:55	54.8	100	2.05	1.73	3.99
08:56	54.2	100	2.05	1.73	3.99
08:57	53.9	100	2.05	1.74	3.99
08:58	54.4	100	2.05	1.74	3.99
08:59	55.2	100	2.05	1.74	3.99
09:00	54.7	100	2.05	1.75	3.99
09:01	53.5	100	2.05	1.75	3.99
09:02	53.2	100	2.05	1.75	3.99
09:03	53.1	100	2.05	1.75	3.99
09:04	53.4	100	2.05	1.76	3.99
09:05	53.6	100	2.05	1.76	3.99
09:06	53.8	100	2.05	1.76	3.99
09:07	54.0	100	2.05	1.77	3.99
09:08	54.0	100	2.05	1.77	3.99
09:09	52.8	100	2.05	1.77	3.99
09:10	54.1	100	2.05	1.77	3.99
09:11	53.2	100	2.05	1.78	3.99
09:12	54.0	100	2.05	1.78	3.99
09:13	53.3	100	2.05	1.78	3.99
09:14	52.7	100	2.04	1.78	3.99
09:15	53.7	100	2.04	1.79	3.99
09:16	55.0	100	2.04	1.79	3.99
09:17	54.6	100	2.04	1.79	3.99
09:18	53.9	100	2.04	1.80	3.99
09:19	53.5	100	2.04	1.80	3.99
09:20	53.6	100	2.04	1.80	3.99
09:21	53.3	100	2.04	1.80	3.99
09:22	53.4	100	2.04	1.81	3.99
09:23	53.5	100	2.04	1.81	3.99
09:24	53.4	100	2.04	1.81	3.99
09:25	53.9	100	2.04	1.82	3.99
09:26	53.0	100	2.04	1.82	3.99
09:27	55.0	100	2.04	1.82	3.99
09:28	54.8	100	2.04	1.82	3.99
09:29	54.5	100	2.04	1.83	3.99
09:30	53.1	100	2.04	1.83	3.99
09:31	53.2	100	2.04	1.83	3.99
09:32	53.1	100	2.04	1.83	3.99
09:33	53.0	100	2.04	1.84	3.99
09:34	54.0	100	2.04	1.84	3.99
09:35	54.7	100	2.04	1.84	3.99
09:36	53.6	100	2.04	1.85	3.99
09:37	53.8	100	2.04	1.85	3.99
09:38	54.5	100	2.04	1.85	3.99
09:39	54.4	100	2.04	1.85	3.99
09:40	54.5	100	2.04	1.86	3.99
09:41	54.0	100	2.04	1.86	3.99
09:42	53.2	100	2.04	1.86	3.99

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:43	54.2	100	2.04	1.87	3.99
09:44	53.6	100	2.04	1.87	3.99
09:45	53.8	100	2.04	1.87	4.00
09:46	55.0	100	2.04	1.87	4.00
09:47	55.7	100	2.04	1.88	4.00
09:48	55.1	100	2.04	1.88	4.00
09:49	53.6	100	2.04	1.88	4.00
09:50	54.6	100	2.04	1.88	4.00
09:51	53.9	100	2.04	1.89	4.00
09:52	53.9	100	2.04	1.89	4.00
09:53	54.4	100	2.04	1.89	4.00
09:54	55.5	100	2.04	1.90	4.00
09:55	56.0	100	2.03	1.90	4.00
09:56	54.7	100	2.03	1.90	4.00
09:57	53.9	100	2.03	1.90	4.00
09:58	54.5	100	2.03	1.91	4.00
09:59	54.8	100	2.03	1.91	4.00
10:00	53.9	100	2.03	1.91	3.99
10:01	54.3	100	2.03	1.92	3.99
10:02	55.7	100	2.03	1.92	3.99
10:03	54.5	100	2.03	1.92	3.99
10:04	54.4	100	2.03	1.92	3.99
10:05	54.6	100	2.03	1.93	3.99
10:06	53.9	100	2.03	1.93	3.99
10:07	54.3	100	2.03	1.93	3.99
10:08	54.8	100	2.03	1.93	3.98
10:09	54.6	100	2.03	1.94	3.98
10:10	53.9	100	2.03	1.94	3.98
10:11	53.3	100	2.03	1.94	3.98
10:12	54.9	100	2.03	1.94	3.98
10:13	54.2	100	2.03	1.94	3.98
10:14	54.1	100	2.03	1.94	3.94
10:15	55.2	100	2.03	1.94	3.91
10:16	54.8	100	2.03	1.94	3.91
10:17	54.7	100	2.03	1.94	3.91
10:18	54.7	100	2.03	1.94	3.91
10:19	53.4	100	2.03	1.94	3.91
10:20	53.9	100	2.03	1.94	3.91
10:21	53.7	100	2.03	1.94	3.91
10:22	55.9	100	2.03	1.94	3.91
10:23	55.4	100	2.03	1.94	3.91
10:24	55.8	100	2.03	1.94	3.91
10:25	55.2	100	2.03	1.94	3.91
10:26	55.0	100	2.03	1.94	3.92
10:27	54.4	100	2.03	1.94	3.92
10:28	54.9	100	2.03	1.94	3.92
10:29	54.2	100	2.03	1.94	3.92
10:30	54.3	100	2.03	1.94	3.92
10:31	54.7	100	2.03	1.94	3.92
10:32	55.2	100	2.03	1.94	3.92
10:33	54.2	100	2.03	1.94	3.92
10:34	54.3	100	2.03	1.94	3.92

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:35	54.8	100	2.02	1.94	3.92
10:36	55.1	100	2.02	1.94	3.92
10:37	54.6	100	2.02	1.94	3.92
10:38	53.8	100	2.02	1.94	3.92
10:39	54.1	100	2.02	1.94	3.92
10:40	54.7	100	2.02	1.94	3.93
10:41	54.6	100	2.02	1.94	3.93
10:42	54.9	100	2.02	1.94	3.93
10:43	55.7	100	2.02	1.94	3.93
10:44	55.1	100	2.02	1.94	3.93
10:45	54.9	100	2.02	1.94	3.93
10:46	54.2	100	2.02	1.94	3.92
10:47	54.1	100	2.02	1.94	3.92
10:48	54.2	100	2.02	1.94	3.92
10:49	55.0	100	2.02	1.94	3.91
10:50	54.8	100	2.02	1.94	3.91
10:51	54.8	100	2.02	1.94	3.91
10:52	55.9	100	2.02	1.94	3.91
10:53	55.1	100	2.02	1.94	3.90
10:54	55.3	100	2.02	1.94	3.90
10:55	56.3	100	2.02	1.94	3.90
10:56	55.0	100	2.02	1.94	3.89
10:57	56.6	100	2.02	1.94	3.89
10:58	55.7	100	2.02	1.94	3.89
10:59	54.9	100	2.02	1.94	3.88
11:00	55.7	100	2.02	1.94	3.88
11:01	55.3	100	2.02	1.94	3.88
11:02	55.4	100	2.02	1.94	3.88
11:03	56.1	100	2.02	1.94	3.87
11:04	56.1	100	2.02	1.94	3.87
11:05	55.6	101	2.02	1.94	3.87
11:06	54.8	101	2.02	1.94	3.86
11:07	55.1	101	2.02	1.94	3.86
11:08	54.6	101	2.02	1.94	3.86
11:09	55.1	101	2.02	1.94	3.85
11:10	54.5	101	2.02	1.94	3.85
11:11	54.5	101	2.02	1.94	3.85
11:12	55.2	101	2.02	1.94	3.85
11:13	54.6	101	2.02	1.94	3.84
11:14	55.1	101	2.02	1.94	3.84
11:15	55.2	101	2.01	1.94	3.84
11:16	55.2	101	2.01	1.94	3.83
11:17	54.9	101	2.01	1.94	3.83
11:18	55.0	101	2.01	1.94	3.86
11:19	54.9	101	2.01	1.94	3.90
11:20	53.7	101	2.01	1.94	3.95
11:21	54.5	101	2.01	1.94	3.96
11:22	54.6	101	2.01	1.94	3.95
11:23	53.8	101	2.01	1.94	3.94
11:24	54.7	101	2.01	1.94	3.93
11:25	54.5	101	2.01	1.94	3.91
11:26	54.1	101	2.01	1.94	3.90

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 5

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:27	54.7	101	2.01	1.94	3.89
11:28	53.4	101	2.01	1.94	3.88
11:29	53.3	101	2.01	1.94	3.87
11:30	54.3	101	2.01	1.94	3.86
11:31	53.9	101	2.01	1.94	3.85
11:32	53.7	101	2.01	1.94	3.84
11:33	55.3	101	2.01	1.94	3.84
11:34	54.2	100	2.01	1.94	3.86
11:35	53.2	100	2.01	1.94	3.88
11:36	53.9	100	2.01	1.94	3.90
11:37	53.6	100	2.01	1.94	3.92
11:38	53.8	100	2.01	1.94	3.86
11:39	54.0	100	2.01	1.94	3.81
11:40	53.2	100	2.01	1.94	3.82
11:41	53.5	100	2.01	1.94	3.83
11:42	53.4	100	2.01	1.94	3.83
11:43	53.4	100	2.01	1.94	3.84
11:44	52.9	100	2.01	1.94	3.85
11:45	53.4	100	2.01	1.94	3.85
11:46	52.8	100	2.01	1.94	3.86
11:47	52.8	100	2.01	1.94	3.86
11:48	53.8	100	2.01	1.94	3.87
11:49	52.9	100	2.01	1.94	3.88
11:50	53.2	100	2.01	1.94	3.88
11:51	52.7	100	2.01	1.94	3.89
11:52	53.8	100	2.01	1.94	3.90
11:53	51.9	100	2.01	1.94	3.90
11:54	53.1	100	2.01	1.94	3.91
11:55	52.4	100	2.01	1.94	3.91
11:56	54.0	100	2.00	1.94	3.91
11:57	53.3	100	2.00	1.94	3.90
11:58	52.3	99	2.00	1.94	3.90
11:59	53.8	99	2.00	1.94	3.90
12:00	53.5	99	2.00	1.94	3.89
12:01	52.8	100	2.00	1.94	3.89
12:02	53.0	100	2.00	1.94	3.89
12:03	53.2	100	2.00	1.94	3.88
12:04	53.7	100	2.00	1.94	3.88
12:05	53.2	100	2.00	1.94	3.88
12:06	53.6	101	2.00	1.94	3.87
12:07	53.7	101	2.00	1.94	3.87
12:08	53.9	101	2.00	1.94	3.87
12:09	53.0	101	2.00	1.94	3.86
12:10	52.6	101	2.00	1.94	3.86
12:11	52.2	101	2.00	1.94	3.86
12:12	53.3	101	2.00	1.94	3.85
12:13	53.9	101	2.00	1.94	3.85
12:14	53.7	101	2.00	1.94	3.85
Average	54.1	100	2.03	1.86	3.94
Minimum	51.9	99	2.00	1.61	3.81
Maximum	56.6	101	2.06	1.94	4.00

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Unit	Boiler No. 7
Condition:	ICR Test
Run:	6
Date:	06/13/2024
Start Time:	13:20
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	17:29

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,300

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
13:20	1,793	33,054	94,924	1,501	102
13:21	1,795	33,052	95,015	1,501	102
13:22	1,794	33,055	95,112	1,500	102
13:23	1,799	33,052	94,995	1,500	102
13:24	1,790	33,048	94,910	1,497	102
13:25	1,788	33,048	94,924	1,498	102
13:26	1,788	33,052	94,986	1,503	102
13:27	1,788	33,051	94,859	1,502	102
13:28	1,781	33,038	95,214	1,498	102
13:29	1,786	33,050	95,191	1,498	102
13:30	1,786	33,048	94,921	1,501	102
13:31	1,783	33,053	95,023	1,498	102
13:32	1,783	33,051	94,861	1,501	102
13:33	1,791	33,049	95,065	1,501	102
13:34	1,794	33,045	94,585	1,500	103
13:35	1,794	33,056	95,019	1,495	102
13:36	1,789	33,050	95,100	1,497	102
13:37	1,792	33,049	95,318	1,500	102
13:38	1,792	33,055	95,213	1,503	102
13:39	1,792	33,049	94,810	1,501	102
13:40	1,800	33,049	94,872	1,501	102
13:41	1,794	33,049	94,887	1,500	102
13:42	1,792	33,048	94,955	1,498	103
13:43	1,795	33,052	95,026	1,500	102
13:44	1,800	33,049	95,021	1,497	102
13:45	1,795	33,056	95,096	1,500	102
13:46	1,791	33,048	94,965	1,500	102
13:47	1,794	33,048	94,884	1,502	102
13:48	1,796	33,050	95,109	1,501	102
13:49	1,792	33,053	95,058	1,500	102
13:50	1,789	33,041	95,089	1,499	102
13:51	1,792	33,050	94,901	1,500	102
13:52	1,788	33,051	94,971	1,500	102
13:53	1,794	33,050	95,038	1,498	102
13:54	1,793	33,049	94,813	1,498	102
13:55	1,790	33,051	95,157	1,497	102
13:56	1,795	33,050	95,191	1,500	102
13:57	1,792	33,048	94,867	1,498	102
13:58	1,794	33,054	94,943	1,500	103
13:59	1,792	33,051	95,175	1,500	102
14:00	1,795	33,045	95,144	1,501	101

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
14:01	1,792	33,050	95,008	1,501	101
14:02	1,785	33,054	95,179	1,500	102
14:03	1,792	33,052	94,936	1,500	102
14:04	1,791	33,057	94,797	1,501	102
14:05	1,790	33,048	94,869	1,499	102
14:06	1,788	33,047	94,973	1,498	102
14:07	1,795	33,050	94,927	1,501	102
14:08	1,800	33,049	94,967	1,500	102
14:09	1,794	33,049	94,862	1,502	103
14:10	1,793	33,048	95,049	1,502	103
14:11	1,796	33,047	95,023	1,498	102
14:12	1,795	33,049	95,044	1,497	102
14:13	1,787	33,048	95,053	1,500	102
14:14	1,795	33,058	95,067	1,502	102
14:15	1,791	33,049	95,279	1,500	102
14:16	1,787	33,052	94,871	1,501	102
14:17	1,788	33,052	94,899	1,501	102
14:18	1,796	33,047	94,635	1,501	102
14:19	1,792	33,052	95,095	1,500	102
14:20	1,788	33,049	94,895	1,499	102
14:21	1,797	33,053	95,033	1,499	102
14:22	1,797	33,048	95,094	1,498	102
14:23	1,794	33,046	94,820	1,497	102
14:24	1,796	33,051	94,854	1,501	102
14:25	1,801	33,049	95,089	1,501	102
14:26	1,800	33,048	95,020	1,502	102
14:27	1,795	33,049	94,933	1,500	102
14:28	1,795	33,050	95,102	1,499	102
14:29	1,790	33,056	94,928	1,500	102
14:30	1,793	33,049	95,187	1,497	102
14:31	1,795	33,052	94,866	1,499	102
14:32	1,788	33,049	95,016	1,501	102
14:33	1,794	33,051	95,185	1,501	102
14:34	1,793	33,049	95,094	1,500	102
14:35	1,788	33,053	94,960	1,502	102
14:36	1,794	33,055	94,981	1,499	102
14:37	1,798	33,046	94,915	1,501	102
14:38	1,798	33,049	94,893	1,502	103
14:39	1,800	33,057	94,842	1,501	103
14:40	1,800	33,056	95,055	1,498	102
14:41	1,796	33,050	95,150	1,499	102
14:42	1,799	33,051	95,128	1,502	102
14:43	1,794	33,050	95,294	1,501	101
14:44	1,797	33,052	94,866	1,499	102
14:45	1,796	33,053	94,906	1,500	102
14:46	1,795	33,047	94,955	1,501	102
14:47	1,798	33,048	95,002	1,501	102
14:48	1,796	33,048	94,945	1,498	102
14:49	1,795	33,049	95,171	1,500	102
14:50	1,797	33,047	95,022	1,500	102
14:51	1,791	33,048	94,812	1,501	102
14:52	1,794	33,050	94,985	1,503	102

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
14:53	1,801	33,044	95,260	1,500	101
14:54	1,795	33,052	94,822	1,499	102
14:55	1,797	33,051	95,044	1,498	102
14:56	1,793	33,059	95,025	1,498	102
14:57	1,794	33,050	95,194	1,500	102
14:58	1,793	33,055	95,355	1,501	101
14:59	1,796	33,049	94,816	1,501	102
15:00	1,795	33,050	94,990	1,503	102
15:01	1,789	33,045	94,966	1,502	101
15:02	1,787	33,053	94,708	1,499	102
15:03	1,800	33,057	94,894	1,500	103
15:04	1,800	33,050	95,162	1,498	102
15:05	1,795	33,050	94,973	1,499	102
15:06	1,799	33,051	94,766	1,501	103
15:07	1,794	33,052	94,931	1,499	103
15:08	1,786	33,057	94,843	1,504	103
15:09	1,798	33,050	94,937	1,502	102
15:10	1,792	33,049	94,992	1,499	102
15:11	1,792	33,059	95,203	1,495	102
15:12	1,791	33,057	95,139	1,499	102
15:13	1,792	33,053	95,244	1,502	102
15:14	1,794	33,056	94,910	1,502	102
15:15	1,795	33,045	95,199	1,502	102
15:16	1,790	33,049	95,022	1,499	102
15:17	1,796	33,051	94,793	1,496	102
15:18	1,796	33,051	94,999	1,501	102
15:19	1,796	33,049	95,078	1,499	102
15:20	1,797	33,050	95,327	1,503	101
15:21	1,791	33,051	94,774	1,499	102
15:22	1,796	33,045	94,771	1,499	103
15:23	1,792	33,051	94,803	1,499	103
15:24	1,792	33,050	94,878	1,502	102
15:25	1,792	33,050	95,019	1,499	102
15:26	1,793	33,055	94,945	1,498	102
15:27	1,803	33,052	95,212	1,499	102
15:28	1,794	33,050	94,962	1,501	102
15:29	1,792	33,048	95,047	1,504	102
15:30	1,795	33,049	94,887	1,499	103
15:31	1,798	33,044	95,105	1,500	102
15:32	1,798	33,050	95,247	1,501	102
15:33	1,801	33,049	95,175	1,498	102
15:34	1,796	33,048	94,906	1,502	102
15:35	1,792	33,051	95,150	1,501	102
15:36	1,796	33,058	94,943	1,500	102
15:37	1,797	33,054	95,186	1,499	102
15:38	1,795	33,047	94,996	1,500	102
15:39	1,796	33,056	95,030	1,500	102
15:40	1,789	33,053	94,779	1,500	102
15:41	1,796	33,052	95,000	1,502	102
15:42	1,796	33,058	95,128	1,500	102
15:43	1,797	33,050	94,843	1,500	102
15:44	1,796	33,050	94,960	1,503	102

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
15:45	1,802	33,051	95,141	1,497	102
15:46	1,792	33,045	95,177	1,497	101
15:47	1,797	33,052	95,250	1,503	101
15:48	1,797	33,051	95,196	1,500	102
15:49	1,794	33,052	94,821	1,499	102
15:50	1,798	33,059	94,974	1,499	102
15:51	1,793	33,050	94,716	1,501	102
15:52	1,794	33,058	95,164	1,501	102
15:53	1,799	33,057	94,936	1,499	101
15:54	1,797	33,050	94,948	1,496	102
15:55	1,793	33,051	94,872	1,501	102
15:56	1,795	33,052	95,085	1,500	102
15:57	1,794	33,054	94,799	1,500	102
15:58	1,798	33,046	94,945	1,500	102
15:59	1,802	33,048	95,007	1,500	102
16:00	1,797	33,057	95,020	1,499	102
16:01	1,795	33,052	95,098	1,500	102
16:02	1,794	33,048	95,116	1,499	102
16:03	1,790	33,050	94,938	1,501	102
16:04	1,793	33,053	94,997	1,499	102
16:05	1,798	33,052	95,039	1,500	102
16:06	1,791	33,051	95,041	1,498	102
16:07	1,793	33,054	94,893	1,501	102
16:08	1,795	33,052	94,973	1,499	102
16:09	1,795	33,047	95,219	1,500	102
16:10	1,805	33,047	95,125	1,500	102
16:11	1,805	33,052	94,915	1,502	102
16:12	1,796	33,045	94,858	1,502	102
16:13	1,791	33,052	94,770	1,499	103
16:14	1,795	33,050	94,977	1,499	102
16:15	1,795	33,049	94,852	1,499	102
16:16	1,787	33,053	95,416	1,499	102
16:17	1,795	33,056	95,216	1,500	101
16:18	1,798	33,053	94,854	1,501	102
16:19	1,798	33,056	94,975	1,499	102
16:20	1,800	33,040	95,171	1,499	102
16:21	1,800	33,050	94,957	1,498	102
16:22	1,794	33,052	94,851	1,499	102
16:23	1,797	33,053	94,966	1,500	102
16:24	1,801	33,050	95,175	1,498	102
16:25	1,800	33,049	95,063	1,499	102
16:26	1,798	33,046	95,018	1,501	102
16:27	1,800	33,048	95,145	1,501	101
16:28	1,798	33,050	94,921	1,501	102
16:29	1,801	33,051	94,860	1,501	102
16:30	1,798	33,052	95,055	1,500	102
16:31	1,795	33,055	94,969	1,496	102
16:32	1,799	33,051	94,831	1,499	102
16:33	1,793	33,057	94,930	1,502	102
16:34	1,798	33,053	95,137	1,500	102
16:35	1,802	33,064	95,119	1,502	102
16:36	1,801	33,047	94,953	1,499	102

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
16:37	1,800	33,049	95,237	1,500	101
16:38	1,800	33,052	95,075	1,500	101
16:39	1,800	33,054	94,795	1,500	102
16:40	1,800	33,050	94,963	1,499	102
16:41	1,802	33,056	94,958	1,499	102
16:42	1,802	33,049	95,007	1,501	102
16:43	1,810	33,051	95,149	1,502	102
16:44	1,804	33,047	94,920	1,502	102
16:45	1,802	33,056	94,920	1,501	102
16:46	1,803	33,049	95,053	1,500	102
16:47	1,798	33,048	95,073	1,500	102
16:48	1,796	33,049	94,962	1,500	102
16:49	1,804	33,046	94,902	1,499	102
16:50	1,801	33,048	94,912	1,500	102
16:51	1,809	33,048	95,135	1,499	101
16:52	1,808	33,056	95,247	1,498	102
16:53	1,802	33,049	95,044	1,501	101
16:54	1,801	33,051	94,910	1,501	102
16:55	1,808	33,053	95,039	1,499	102
16:56	1,805	33,054	95,343	1,501	101
16:57	1,807	33,050	94,925	1,500	101
16:58	1,800	33,058	94,787	1,500	102
16:59	1,810	33,057	94,760	1,501	102
17:00	1,805	33,056	94,962	1,502	102
17:01	1,805	33,051	95,065	1,502	101
17:02	1,803	33,050	94,823	1,498	102
17:03	1,806	33,050	94,866	1,497	102
17:04	1,804	33,049	95,069	1,498	101
17:05	1,806	33,058	95,277	1,499	102
17:06	1,806	33,055	94,990	1,502	102
17:07	1,805	33,050	94,855	1,502	102
17:08	1,805	33,049	94,924	1,499	102
17:09	1,798	33,058	95,270	1,502	102
17:10	1,803	33,056	95,098	1,502	102
17:11	1,804	33,050	94,983	1,500	102
17:12	1,795	33,049	94,971	1,502	102
17:13	1,803	33,055	94,907	1,499	102
17:14	1,806	33,053	94,882	1,497	102
17:15	1,808	33,059	94,950	1,498	102
17:16	1,802	33,048	95,044	1,504	102
17:17	1,805	33,049	95,012	1,500	102
17:18	1,805	33,049	95,180	1,500	102
17:19	1,803	33,049	95,049	1,500	102
17:20	1,804	33,050	95,013	1,499	102
17:21	1,800	33,050	94,841	1,499	102
17:22	1,800	33,057	94,873	1,501	102
17:23	1,800	33,052	94,954	1,500	102
17:24	1,804	33,057	95,031	1,500	102
17:25	1,806	33,051	94,950	1,503	102
17:26	1,811	33,052	95,417	1,501	102
17:27	1,808	33,047	95,180	1,497	101
17:28	1,803	33,049	94,928	1,501	102

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/13/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
17:29	1,798	33,050	94,924	1,503	102

Average	1,796	33,051	95,004	1,500	102
Minimum	1,781	33,038	94,585	1,495	101
Maximum	1,811	33,064	95,417	1,504	103

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Unit	Boiler No. 7
Condition:	ICR Test
Run:	6
Date:	06/13/2024
Start Time:	13:20
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	17:29

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:20	53.2	101	1.98	1.94	3.82
13:21	54.2	101	1.98	1.94	3.83
13:22	54.3	101	1.98	1.94	3.83
13:23	54.6	101	1.98	1.94	3.83
13:24	54.9	101	1.98	1.94	3.83
13:25	54.0	101	1.98	1.94	3.83
13:26	54.4	101	1.98	1.94	3.84
13:27	54.3	101	1.98	1.94	3.84
13:28	55.5	101	1.98	1.94	3.84
13:29	53.4	101	1.98	1.94	3.84
13:30	54.6	101	1.98	1.94	3.84
13:31	54.2	101	1.98	1.94	3.85
13:32	54.3	101	1.98	1.94	3.85
13:33	55.2	101	1.98	1.94	3.85
13:34	54.5	101	1.98	1.94	3.85
13:35	55.5	101	1.98	1.94	3.86
13:36	54.8	101	1.98	1.94	3.86
13:37	55.4	101	1.98	1.94	3.86
13:38	55.5	101	1.98	1.94	3.86
13:39	55.2	101	1.98	1.94	3.86
13:40	55.6	101	1.98	1.94	3.87
13:41	56.0	101	1.98	1.94	3.87
13:42	55.8	101	1.98	1.94	3.87
13:43	54.8	101	1.98	1.94	3.87
13:44	53.8	101	1.98	1.94	3.88
13:45	55.1	101	1.98	1.94	3.88
13:46	55.6	101	1.98	1.94	3.88
13:47	55.6	101	1.98	1.94	3.88
13:48	55.1	101	1.98	1.94	3.88
13:49	55.1	101	1.98	1.94	3.89
13:50	55.2	101	1.98	1.94	3.89
13:51	53.8	101	1.98	1.94	3.89
13:52	54.9	101	1.98	1.94	3.89
13:53	56.1	101	1.98	1.94	3.89
13:54	55.7	101	1.98	1.94	3.89
13:55	55.6	101	1.98	1.94	3.89
13:56	54.4	101	1.98	1.94	3.88
13:57	54.2	101	1.97	1.94	3.88
13:58	53.7	101	1.97	1.94	3.88
13:59	54.3	101	1.97	1.94	3.88
14:00	54.2	101	1.97	1.94	3.88

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:01	53.5	101	1.97	1.94	3.88
14:02	54.3	101	1.97	1.94	3.88
14:03	54.6	101	1.97	1.94	3.88
14:04	54.0	101	1.97	1.94	3.88
14:05	54.1	101	1.97	1.94	3.88
14:06	53.7	101	1.97	1.94	3.88
14:07	53.7	101	1.97	1.94	3.88
14:08	55.6	101	1.97	1.94	3.88
14:09	55.3	101	1.97	1.94	3.88
14:10	56.1	101	1.97	1.94	3.88
14:11	54.5	101	1.97	1.94	3.88
14:12	54.8	101	1.97	1.94	3.88
14:13	54.6	101	1.97	1.94	3.88
14:14	55.3	101	1.97	1.94	3.88
14:15	55.3	101	1.97	1.94	3.88
14:16	55.6	101	1.97	1.94	3.88
14:17	54.9	101	1.97	1.94	3.88
14:18	54.2	101	1.97	1.94	3.88
14:19	54.2	101	1.97	1.94	3.88
14:20	54.3	101	1.97	1.94	3.88
14:21	54.7	101	1.97	1.94	3.88
14:22	54.7	101	1.97	1.94	3.87
14:23	55.1	101	1.97	1.94	3.87
14:24	55.2	101	1.97	1.94	3.87
14:25	54.9	101	1.97	1.94	3.87
14:26	54.6	101	1.97	1.94	3.87
14:27	55.6	101	1.97	1.94	3.87
14:28	55.9	101	1.97	1.94	3.87
14:29	55.8	101	1.97	1.94	3.87
14:30	55.5	101	1.97	1.94	3.87
14:31	54.6	101	1.97	1.94	3.87
14:32	55.3	101	1.97	1.94	3.87
14:33	55.7	101	1.97	1.94	3.87
14:34	56.0	101	1.97	1.94	3.87
14:35	55.3	101	1.97	1.94	3.87
14:36	56.0	101	1.97	1.94	3.87
14:37	56.9	101	1.96	1.94	3.87
14:38	55.9	101	1.96	1.94	3.87
14:39	56.4	101	1.96	1.94	3.86
14:40	56.2	101	1.96	1.94	3.86
14:41	55.6	101	1.96	1.94	3.86
14:42	56.0	101	1.96	1.94	3.86
14:43	55.4	101	1.96	1.94	3.86
14:44	55.6	101	1.96	1.94	3.86
14:45	55.7	101	1.96	1.94	3.86
14:46	56.7	101	1.96	1.94	3.86
14:47	55.2	101	1.96	1.94	3.86
14:48	55.6	101	1.96	1.94	3.86
14:49	55.8	101	1.96	1.94	3.86
14:50	55.4	101	1.96	1.94	3.86
14:51	55.8	101	1.96	1.94	3.86
14:52	56.0	101	1.96	1.94	3.85

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:53	56.3	101	1.96	1.94	3.85
14:54	55.9	101	1.96	1.94	3.85
14:55	55.7	101	1.96	1.94	3.85
14:56	55.7	101	1.96	1.94	3.85
14:57	56.5	101	1.96	1.94	3.85
14:58	56.5	101	1.96	1.94	3.85
14:59	56.3	101	1.96	1.94	3.85
15:00	55.2	101	1.96	1.94	3.85
15:01	56.3	101	1.96	1.94	3.85
15:02	55.2	101	1.96	1.94	3.85
15:03	55.3	101	1.96	1.94	3.85
15:04	56.5	101	1.96	1.94	3.85
15:05	56.5	101	1.96	1.94	3.85
15:06	55.9	101	1.96	1.94	3.84
15:07	56.2	101	1.96	1.94	3.84
15:08	56.4	101	1.96	1.94	3.84
15:09	56.9	101	1.96	1.94	3.84
15:10	56.2	101	1.96	1.94	3.84
15:11	56.0	101	1.96	1.94	3.84
15:12	57.0	101	1.96	1.94	3.84
15:13	57.1	101	1.96	1.94	3.84
15:14	56.7	101	1.96	1.94	3.84
15:15	56.0	101	1.96	1.94	3.84
15:16	55.4	101	1.96	1.94	3.84
15:17	56.0	101	1.96	1.94	3.85
15:18	56.9	101	1.95	1.94	3.85
15:19	57.5	101	1.95	1.94	3.85
15:20	56.8	101	1.95	1.94	3.85
15:21	56.2	101	1.95	1.94	3.85
15:22	56.2	101	1.95	1.94	3.85
15:23	56.0	101	1.95	1.94	3.85
15:24	57.2	101	1.95	1.94	3.85
15:25	56.6	101	1.95	1.94	3.86
15:26	56.3	101	1.95	1.94	3.86
15:27	55.5	101	1.95	1.94	3.86
15:28	56.1	101	1.95	1.94	3.86
15:29	56.5	101	1.95	1.94	3.86
15:30	55.3	101	1.95	1.94	3.86
15:31	55.7	101	1.95	1.94	3.86
15:32	56.4	101	1.95	1.94	3.87
15:33	56.3	101	1.95	1.94	3.87
15:34	56.7	101	1.95	1.94	3.87
15:35	56.2	101	1.95	1.94	3.87
15:36	55.7	101	1.95	1.94	3.87
15:37	55.9	101	1.95	1.94	3.87
15:38	56.1	101	1.95	1.94	3.87
15:39	56.7	101	1.95	1.94	3.87
15:40	55.0	101	1.95	1.94	3.87
15:41	56.4	101	1.95	1.94	3.87
15:42	55.9	101	1.95	1.94	3.87
15:43	56.7	101	1.95	1.94	3.87
15:44	55.9	101	1.95	1.94	3.87

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:45	55.9	101	1.95	1.94	3.87
15:46	56.2	101	1.95	1.94	3.87
15:47	55.8	101	1.95	1.94	3.87
15:48	56.0	101	1.95	1.94	3.88
15:49	56.0	101	1.95	1.94	3.88
15:50	56.0	101	1.95	1.94	3.88
15:51	56.6	101	1.95	1.94	3.88
15:52	56.1	101	1.95	1.94	3.88
15:53	56.0	101	1.95	1.95	3.88
15:54	55.4	101	1.95	1.95	3.88
15:55	56.0	101	1.95	1.95	3.88
15:56	55.8	101	1.95	1.95	3.88
15:57	55.7	101	1.95	1.95	3.88
15:58	56.4	101	1.94	1.95	3.88
15:59	56.6	101	1.94	1.95	3.88
16:00	55.7	101	1.94	1.95	3.88
16:01	55.9	101	1.94	1.95	3.88
16:02	56.2	101	1.94	1.95	3.88
16:03	56.3	101	1.94	1.95	3.88
16:04	55.8	101	1.94	1.95	3.88
16:05	56.8	101	1.94	1.95	3.88
16:06	55.9	101	1.94	1.95	3.88
16:07	55.1	101	1.94	1.95	3.88
16:08	55.0	101	1.94	1.95	3.88
16:09	54.6	101	1.94	1.95	3.89
16:10	55.6	101	1.94	1.95	3.89
16:11	54.7	101	1.94	1.95	3.89
16:12	55.3	101	1.94	1.95	3.89
16:13	55.2	101	1.94	1.95	3.89
16:14	55.0	101	1.94	1.95	3.89
16:15	55.3	101	1.94	1.95	3.89
16:16	55.8	101	1.94	1.95	3.89
16:17	55.8	101	1.94	1.95	3.89
16:18	56.1	101	1.94	1.95	3.89
16:19	54.9	101	1.93	1.95	3.89
16:20	55.2	101	1.93	1.95	3.89
16:21	54.8	101	1.93	1.95	3.89
16:22	55.7	101	1.92	1.95	3.89
16:23	55.5	101	1.92	1.95	3.89
16:24	55.1	101	1.92	1.95	3.89
16:25	54.7	101	1.92	1.95	3.89
16:26	55.4	101	1.91	1.95	3.89
16:27	55.6	101	1.91	1.95	3.89
16:28	55.2	101	1.91	1.95	3.89
16:29	55.4	101	1.91	1.95	3.89
16:30	55.4	101	1.90	1.95	3.89
16:31	56.1	101	1.90	1.95	3.90
16:32	56.3	101	1.90	1.95	3.90
16:33	56.4	101	1.90	1.95	3.90
16:34	55.8	101	1.89	1.95	3.88
16:35	56.3	101	1.89	1.95	3.85
16:36	56.1	101	1.89	1.95	3.82

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
16:37	55.6	101	1.88	1.95	3.81
16:38	55.2	101	1.88	1.95	3.81
16:39	54.5	101	1.88	1.95	3.81
16:40	55.0	101	1.88	1.95	3.81
16:41	55.1	101	1.87	1.95	3.81
16:42	54.9	101	1.87	1.95	3.81
16:43	55.0	101	1.87	1.95	3.81
16:44	54.1	101	1.87	1.95	3.81
16:45	54.4	101	1.86	1.95	3.81
16:46	54.7	101	1.86	1.95	3.81
16:47	55.2	101	1.86	1.95	3.81
16:48	55.1	101	1.86	1.95	3.81
16:49	54.2	101	1.85	1.95	3.81
16:50	54.3	101	1.85	1.95	3.81
16:51	54.8	101	1.85	1.95	3.81
16:52	54.6	101	1.85	1.95	3.81
16:53	54.4	101	1.84	1.95	3.81
16:54	54.8	101	1.84	1.95	3.81
16:55	55.0	101	1.84	1.95	3.81
16:56	55.0	101	1.83	1.95	3.81
16:57	55.0	101	1.83	1.95	3.81
16:58	54.5	101	1.83	1.95	3.81
16:59	54.4	101	1.83	1.95	3.81
17:00	55.1	101	1.82	1.95	3.81
17:01	55.4	101	1.82	1.95	3.81
17:02	54.1	101	1.82	1.95	3.81
17:03	54.3	101	1.82	1.95	3.81
17:04	53.9	101	1.81	1.95	3.80
17:05	53.2	101	1.81	1.95	3.80
17:06	54.5	101	1.81	1.95	3.80
17:07	54.1	101	1.81	1.95	3.80
17:08	54.1	101	1.80	1.95	3.80
17:09	54.4	101	1.80	1.95	3.80
17:10	55.3	101	1.80	1.95	3.80
17:11	54.2	101	1.79	1.95	3.80
17:12	55.1	101	1.79	1.95	3.80
17:13	54.9	101	1.79	1.95	3.80
17:14	54.8	101	1.79	1.95	3.80
17:15	54.8	101	1.78	1.95	3.80
17:16	54.9	101	1.78	1.95	3.80
17:17	54.7	101	1.78	1.95	3.80
17:18	55.6	101	1.78	1.95	3.80
17:19	54.6	101	1.77	1.95	3.80
17:20	54.8	101	1.77	1.95	3.80
17:21	53.9	101	1.77	1.95	3.80
17:22	54.5	101	1.77	1.95	3.80
17:23	53.8	101	1.76	1.95	3.80
17:24	53.9	101	1.76	1.95	3.80
17:25	53.9	101	1.76	1.95	3.80
17:26	53.6	101	1.76	1.95	3.80
17:27	53.9	101	1.75	1.95	3.80
17:28	53.0	101	1.75	1.95	3.80

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 6

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/13/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
17:29	53.0	101	1.75	1.95	3.80

Average	55.3	101	1.93	1.94	3.85
Minimum	53.0	101	1.75	1.94	3.80
Maximum	57.5	101	1.98	1.95	3.90

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Unit	Boiler No. 7
Condition:	ICR Test
Run:	7
Date:	06/14/2024
Start Time:	08:16
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:19

Parameter	Units	Waste liquid fuel
Heating value	Btu/lb	11,300

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/14/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
08:16	1,798	33,873	96,363	1,500	104
08:17	1,795	33,877	95,915	1,502	104
08:18	1,790	33,875	96,481	1,500	104
08:19	1,793	33,874	96,697	1,500	104
08:20	1,797	33,875	96,648	1,500	104
08:21	1,797	33,873	96,084	1,497	104
08:22	1,797	33,874	96,205	1,500	104
08:23	1,796	33,877	96,327	1,501	104
08:24	1,795	33,889	96,439	1,501	104
08:25	1,797	33,870	95,899	1,500	104
08:26	1,800	33,872	96,054	1,500	104
08:27	1,798	33,876	96,226	1,501	104
08:28	1,798	33,878	96,807	1,497	104
08:29	1,794	33,875	96,728	1,498	104
08:30	1,786	33,874	96,091	1,499	104
08:31	1,792	33,879	96,180	1,501	104
08:32	1,794	33,880	96,192	1,501	104
08:33	1,795	33,875	96,732	1,498	104
08:34	1,801	33,876	96,240	1,497	104
08:35	1,805	33,869	96,123	1,501	104
08:36	1,804	33,877	96,409	1,503	104
08:37	1,800	33,870	96,661	1,501	104
08:38	1,799	33,873	96,438	1,497	104
08:39	1,802	33,877	95,903	1,500	104
08:40	1,802	33,888	95,813	1,501	104
08:41	1,796	33,883	96,335	1,500	104
08:42	1,801	33,873	97,096	1,499	104
08:43	1,805	33,872	96,884	1,500	104
08:44	1,805	33,870	96,666	1,501	104
08:45	1,804	33,862	96,223	1,502	104
08:46	1,804	33,608	96,846	1,499	104
08:47	1,808	33,068	96,467	1,499	104
08:48	1,804	33,045	95,992	1,499	104
08:49	1,799	33,049	96,274	1,500	104
08:50	1,800	33,048	96,338	1,500	104
08:51	1,798	33,051	96,588	1,500	104
08:52	1,803	33,049	96,417	1,501	104
08:53	1,802	33,050	96,170	1,502	104
08:54	1,808	33,051	96,040	1,501	104
08:55	1,799	33,050	96,428	1,499	104
08:56	1,802	33,046	96,298	1,499	104

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/14/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
08:57	1,807	33,052	96,723	1,500	104
08:58	1,799	33,048	96,909	1,501	104
08:59	1,800	33,049	96,724	1,500	104
09:00	1,803	33,047	96,350	1,498	104
09:01	1,805	33,045	96,316	1,500	104
09:02	1,801	33,044	95,967	1,498	104
09:03	1,801	33,043	96,209	1,501	104
09:04	1,804	33,048	96,392	1,501	104
09:05	1,804	33,048	96,398	1,501	104
09:06	1,804	33,048	96,477	1,500	104
09:07	1,798	33,049	96,551	1,500	104
09:08	1,798	33,047	96,705	1,500	104
09:09	1,800	33,049	96,391	1,501	104
09:10	1,797	33,048	96,600	1,501	104
09:11	1,800	33,049	96,729	1,501	104
09:12	1,795	33,041	96,352	1,500	104
09:13	1,802	33,057	96,724	1,498	104
09:14	1,797	33,053	96,592	1,499	104
09:15	1,796	33,048	97,194	1,499	104
09:16	1,800	33,049	96,631	1,498	104
09:17	1,800	33,049	96,595	1,501	104
09:18	1,800	33,050	96,643	1,501	104
09:19	1,801	33,051	96,619	1,499	104
09:20	1,799	33,050	96,334	1,498	104
09:21	1,797	33,051	96,631	1,502	104
09:22	1,798	33,053	96,504	1,497	104
09:23	1,798	33,049	96,788	1,501	104
09:24	1,791	33,050	96,457	1,501	104
09:25	1,799	33,051	96,288	1,501	104
09:26	1,800	33,049	96,335	1,501	104
09:27	1,798	33,049	96,355	1,498	104
09:28	1,800	33,047	96,303	1,502	104
09:29	1,797	33,050	96,693	1,500	104
09:30	1,801	33,049	96,957	1,498	104
09:31	1,799	33,048	97,080	1,498	104
09:32	1,796	33,046	96,972	1,499	104
09:33	1,803	33,048	96,376	1,500	104
09:34	1,797	33,051	96,024	1,500	104
09:35	1,803	33,051	96,184	1,500	104
09:36	1,802	33,053	96,058	1,500	104
09:37	1,803	33,051	96,614	1,501	104
09:38	1,800	33,048	96,853	1,499	104
09:39	1,805	33,048	96,550	1,499	104
09:40	1,798	33,050	96,397	1,499	104
09:41	1,800	33,051	96,470	1,501	104
09:42	1,797	33,051	96,646	1,501	104
09:43	1,799	33,049	96,657	1,500	104
09:44	1,799	33,052	96,911	1,500	104
09:45	1,793	33,056	96,582	1,500	104
09:46	1,790	33,055	96,844	1,500	104
09:47	1,802	33,051	96,395	1,501	104
09:48	1,801	33,048	95,693	1,498	104

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/14/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
09:49	1,800	33,049	96,324	1,498	104
09:50	1,798	33,047	96,675	1,502	104
09:51	1,798	33,046	97,051	1,503	104
09:52	1,797	33,048	96,693	1,500	104
09:53	1,800	33,050	97,033	1,498	104
09:54	1,803	33,048	96,825	1,500	104
09:55	1,799	33,051	96,147	1,500	104
09:56	1,801	33,044	97,025	1,500	104
09:57	1,796	33,042	97,159	1,500	104
09:58	1,800	33,058	96,882	1,501	104
09:59	1,800	33,783	95,858	1,504	104
10:00	1,799	33,879	96,135	1,503	104
10:01	1,800	33,879	96,454	1,499	104
10:02	1,796	33,599	96,166	1,499	104
10:03	1,793	33,049	96,444	1,499	104
10:04	1,798	33,048	97,137	1,502	104
10:05	1,798	33,050	96,794	1,501	104
10:06	1,794	33,050	96,608	1,501	104
10:07	1,796	33,051	96,473	1,501	104
10:08	1,795	33,053	96,943	1,501	104
10:09	1,790	33,050	96,572	1,500	104
10:10	1,783	33,050	96,886	1,499	104
10:11	1,783	33,051	96,589	1,501	104
10:12	1,786	33,051	96,628	1,499	104
10:13	1,786	33,055	96,609	1,499	104
10:14	1,780	33,050	96,400	1,499	104
10:15	1,783	33,049	96,351	1,500	104
10:16	1,791	33,051	97,090	1,502	104
10:17	1,790	33,048	97,076	1,499	104
10:18	1,785	33,049	96,293	1,500	104
10:19	1,782	33,052	96,365	1,501	104
10:20	1,784	33,052	96,549	1,501	104
10:21	1,787	33,048	96,468	1,499	104
10:22	1,781	33,053	96,866	1,502	104
10:23	1,782	33,141	96,668	1,502	104
10:24	1,784	33,076	96,519	1,498	104
10:25	1,782	33,260	96,796	1,500	104
10:26	1,776	33,849	96,850	1,500	104
10:27	1,780	33,869	96,430	1,501	104
10:28	1,784	33,376	96,729	1,498	104
10:29	1,784	33,219	96,930	1,500	104
10:30	1,777	33,515	96,698	1,502	104
10:31	1,777	33,884	97,169	1,502	104
10:32	1,780	33,891	96,541	1,501	104
10:33	1,777	33,874	96,186	1,501	104
10:34	1,784	33,874	96,046	1,501	104
10:35	1,778	33,874	96,987	1,500	104
10:36	1,781	33,872	96,192	1,497	104
10:37	1,784	33,873	96,471	1,498	104
10:38	1,782	33,874	96,668	1,499	104
10:39	1,778	33,875	96,216	1,500	104
10:40	1,774	33,876	96,668	1,501	104

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/14/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
10:41	1,782	33,874	96,701	1,500	104
10:42	1,779	33,885	96,445	1,501	104
10:43	1,780	33,882	96,821	1,502	104
10:44	1,775	33,885	96,632	1,500	104
10:45	1,782	33,886	96,902	1,499	104
10:46	1,785	33,884	96,900	1,501	104
10:47	1,783	33,884	96,342	1,498	104
10:48	1,781	33,883	96,615	1,499	104
10:49	1,780	33,885	96,676	1,502	104
10:50	1,779	33,884	96,162	1,501	104
10:51	1,779	33,889	96,739	1,501	104
10:52	1,785	33,874	96,772	1,502	104
10:53	1,784	33,874	96,748	1,497	104
10:54	1,786	33,889	96,984	1,497	104
10:55	1,779	33,879	96,534	1,501	104
10:56	1,779	33,871	96,310	1,498	104
10:57	1,784	33,873	96,839	1,499	104
10:58	1,784	33,875	96,270	1,500	104
10:59	1,782	33,875	96,407	1,503	104
11:00	1,780	33,883	96,502	1,500	104
11:01	1,784	33,880	96,224	1,500	104
11:02	1,777	33,882	96,662	1,498	104
11:03	1,777	33,883	96,578	1,500	104
11:04	1,783	33,887	96,863	1,500	104
11:05	1,780	33,875	97,162	1,500	104
11:06	1,786	33,890	96,954	1,501	104
11:07	1,782	33,877	96,522	1,499	104
11:08	1,783	33,872	96,563	1,497	104
11:09	1,777	33,870	95,877	1,502	104
11:10	1,786	33,876	96,381	1,500	104
11:11	1,784	33,882	95,894	1,502	104
11:12	1,790	33,900	96,183	1,499	104
11:13	1,778	33,880	96,792	1,500	104
11:14	1,780	33,879	96,980	1,500	104
11:15	1,778	33,894	96,731	1,500	104
11:16	1,783	33,877	96,427	1,501	104
11:17	1,777	33,883	96,950	1,501	104
11:18	1,781	33,877	96,855	1,503	104
11:19	1,781	33,880	96,796	1,497	104
11:20	1,781	33,874	96,620	1,500	104
11:21	1,779	33,882	96,590	1,499	104
11:22	1,783	33,881	96,764	1,502	104
11:23	1,781	33,873	96,155	1,499	104
11:24	1,782	33,881	96,530	1,499	104
11:25	1,787	33,885	96,529	1,500	104
11:26	1,784	33,876	96,319	1,498	104
11:27	1,783	33,885	96,606	1,502	104
11:28	1,776	33,874	96,784	1,503	104
11:29	1,779	33,879	97,326	1,503	104
11:30	1,779	33,883	96,934	1,500	104
11:31	1,780	33,883	96,834	1,499	104
11:32	1,777	33,884	97,079	1,502	104

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	TT61050_OMA	AT60819E_OMA	FT60818	FT60840_OMA	FT60800
06/14/2024	Combustion Chamber Temperature	Stack Gas Flow Rate	Steam Production Rate	Hazardous Waste Feed Rate	Natural Gas Flow Rate
Units	°F	scfm	lb/hr	lb/hr	kscfh
11:33	1,784	33,884	96,200	1,499	104
11:34	1,786	33,875	96,039	1,499	104
11:35	1,788	33,882	96,376	1,500	104
11:36	1,794	33,882	96,698	1,501	104
11:37	1,791	33,884	96,582	1,500	104
11:38	1,789	33,875	96,649	1,498	104
11:39	1,789	33,873	97,018	1,500	104
11:40	1,787	33,880	96,598	1,501	104
11:41	1,791	33,882	96,783	1,501	104
11:42	1,789	33,876	97,189	1,501	104
11:43	1,792	33,878	96,485	1,500	104
11:44	1,796	33,877	96,030	1,501	104
11:45	1,795	33,882	96,426	1,499	104
11:46	1,787	33,874	96,177	1,500	104
11:47	1,785	33,873	95,981	1,500	104
11:48	1,785	33,886	96,428	1,499	104
11:49	1,783	33,886	96,449	1,499	104
11:50	1,788	33,885	96,661	1,500	104
11:51	1,786	33,874	96,701	1,498	104
11:52	1,796	33,880	97,020	1,500	104
11:53	1,792	33,875	96,850	1,498	104
11:54	1,791	33,886	97,417	1,497	104
11:55	1,791	33,892	96,281	1,502	104
11:56	1,786	33,884	96,652	1,498	104
11:57	1,779	33,876	96,571	1,500	104
11:58	1,791	33,881	96,587	1,500	104
11:59	1,794	33,875	96,384	1,500	104
12:00	1,799	33,882	96,437	1,500	104
12:01	1,793	33,882	96,200	1,502	104
12:02	1,787	33,884	96,522	1,502	104
12:03	1,787	33,876	96,777	1,501	104
12:04	1,789	33,883	96,716	1,499	104
12:05	1,793	33,877	96,962	1,498	104
12:06	1,784	33,884	96,814	1,498	104
12:07	1,782	33,873	96,614	1,502	104
12:08	1,789	33,897	96,753	1,503	104
12:09	1,791	33,887	96,685	1,502	104
12:10	1,783	33,887	95,992	1,502	104
12:11	1,792	33,899	96,002	1,497	104
12:12	1,792	33,896	96,636	1,500	104
12:13	1,788	33,892	96,503	1,500	104
12:14	1,792	33,880	96,658	1,500	104
12:15	1,786	33,882	96,908	1,500	104
12:16	1,785	33,886	96,755	1,496	104
12:17	1,793	33,877	97,526	1,497	104
12:18	1,788	33,898	96,907	1,500	104
12:19	1,788	33,878	96,264	1,503	104
Average	1,791	33,549	96,555	1,500	104
Minimum	1,774	33,041	95,693	1,496	104
Maximum	1,808	33,900	97,526	1,504	104

BASF Corporation - McIntosh, Alabama
Boiler No. 7
Run 7

Unit	Boiler No. 7
Condition:	ICR Test
Run:	7
Date:	06/14/2024
Start Time:	08:16
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	12:19

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/14/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:16	53.4	101	2.19	1.67	3.89
08:17	53.6	101	2.19	1.67	3.89
08:18	53.8	101	2.19	1.67	3.89
08:19	54.4	101	2.19	1.68	3.89
08:20	54.2	101	2.19	1.68	3.89
08:21	53.6	101	2.19	1.68	3.89
08:22	54.0	101	2.18	1.68	3.89
08:23	53.6	101	2.18	1.69	3.89
08:24	54.2	101	2.18	1.69	3.89
08:25	54.7	101	2.18	1.69	3.89
08:26	55.1	101	2.18	1.70	3.89
08:27	55.2	101	2.18	1.70	3.89
08:28	54.5	101	2.18	1.70	3.89
08:29	54.2	101	2.18	1.70	3.88
08:30	54.0	101	2.18	1.71	3.88
08:31	54.6	101	2.18	1.71	3.88
08:32	53.9	101	2.18	1.71	3.88
08:33	53.7	101	2.17	1.71	3.88
08:34	54.1	101	2.17	1.72	3.88
08:35	53.9	101	2.17	1.72	3.88
08:36	54.6	101	2.17	1.72	3.88
08:37	54.6	101	2.17	1.73	3.88
08:38	53.7	101	2.17	1.73	3.88
08:39	53.9	101	2.17	1.73	3.88
08:40	53.5	101	2.17	1.73	3.88
08:41	53.4	101	2.17	1.74	3.88
08:42	53.9	101	2.17	1.74	3.88
08:43	54.0	101	2.17	1.74	3.88
08:44	54.3	101	2.16	1.74	3.87
08:45	53.1	101	2.16	1.75	3.87
08:46	53.2	101	2.16	1.75	3.87
08:47	54.0	101	2.16	1.75	3.87
08:48	54.0	101	2.16	1.76	3.87
08:49	52.8	101	2.16	1.76	3.87
08:50	52.7	101	2.16	1.76	3.87
08:51	52.8	101	2.16	1.76	3.87
08:52	53.1	101	2.16	1.77	3.87
08:53	53.6	101	2.16	1.77	3.87
08:54	54.7	101	2.15	1.77	3.87
08:55	54.1	101	2.15	1.77	3.87
08:56	54.3	101	2.15	1.78	3.87

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/14/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:57	54.6	101	2.15	1.78	3.87
08:58	54.5	101	2.15	1.78	3.87
08:59	54.1	101	2.15	1.79	3.86
09:00	54.9	101	2.15	1.79	3.86
09:01	54.5	101	2.15	1.79	3.86
09:02	55.2	101	2.15	1.79	3.86
09:03	54.3	101	2.15	1.80	3.86
09:04	54.8	101	2.15	1.80	3.86
09:05	54.6	101	2.14	1.80	3.86
09:06	54.1	101	2.14	1.80	3.86
09:07	53.6	101	2.14	1.81	3.86
09:08	54.3	101	2.14	1.81	3.86
09:09	53.7	101	2.14	1.81	3.86
09:10	54.5	101	2.14	1.82	3.86
09:11	54.9	101	2.14	1.82	3.86
09:12	54.2	101	2.14	1.82	3.86
09:13	54.4	101	2.14	1.82	3.85
09:14	53.6	101	2.14	1.83	3.85
09:15	54.8	101	2.13	1.83	3.85
09:16	54.1	101	2.13	1.83	3.85
09:17	54.9	101	2.13	1.83	3.85
09:18	54.7	101	2.13	1.84	3.85
09:19	54.6	101	2.13	1.84	3.85
09:20	54.6	101	2.13	1.84	3.85
09:21	54.8	101	2.13	1.85	3.85
09:22	54.3	101	2.13	1.85	3.85
09:23	54.2	101	2.13	1.85	3.85
09:24	54.4	101	2.13	1.85	3.85
09:25	54.2	101	2.13	1.86	3.85
09:26	54.5	101	2.12	1.86	3.85
09:27	53.1	101	2.12	1.86	3.85
09:28	53.3	101	2.12	1.86	3.84
09:29	53.7	101	2.12	1.87	3.84
09:30	52.8	101	2.12	1.87	3.84
09:31	53.3	101	2.12	1.87	3.84
09:32	52.9	101	2.12	1.88	3.84
09:33	53.4	101	2.12	1.88	3.84
09:34	54.5	101	2.12	1.88	3.84
09:35	54.1	101	2.12	1.88	3.84
09:36	53.2	101	2.11	1.89	3.84
09:37	53.8	101	2.11	1.89	3.84
09:38	52.9	101	2.11	1.89	3.84
09:39	54.2	101	2.11	1.89	3.84
09:40	53.1	101	2.11	1.90	3.84
09:41	54.1	101	2.11	1.90	3.84
09:42	53.5	101	2.11	1.90	3.84
09:43	53.8	101	2.11	1.91	3.83
09:44	53.3	101	2.11	1.91	3.83
09:45	55.4	101	2.11	1.91	3.83
09:46	56.3	101	2.11	1.91	3.83
09:47	54.9	101	2.10	1.92	3.83
09:48	53.9	101	2.10	1.92	3.83

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/14/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:49	55.0	101	2.10	1.92	3.83
09:50	54.2	101	2.10	1.92	3.83
09:51	53.3	101	2.10	1.93	3.83
09:52	54.0	101	2.10	1.93	3.83
09:53	54.1	101	2.10	1.93	3.83
09:54	53.8	101	2.10	1.94	3.83
09:55	54.6	101	2.10	1.94	3.83
09:56	54.1	101	2.10	1.94	3.83
09:57	53.9	101	2.09	1.94	3.83
09:58	54.0	101	2.09	1.95	3.82
09:59	53.8	101	2.09	1.95	3.82
10:00	54.8	101	2.09	1.95	3.82
10:01	54.8	101	2.09	1.95	3.82
10:02	54.5	101	2.09	1.96	3.82
10:03	54.6	101	2.09	1.96	3.82
10:04	53.5	101	2.09	1.96	3.82
10:05	53.8	101	2.09	1.97	3.82
10:06	54.4	101	2.09	1.97	3.82
10:07	54.2	101	2.09	1.97	3.82
10:08	53.3	101	2.08	1.97	3.82
10:09	54.2	101	2.08	1.98	3.82
10:10	54.4	101	2.08	1.98	3.82
10:11	53.2	101	2.08	1.98	3.82
10:12	54.4	101	2.08	1.98	3.82
10:13	55.0	101	2.08	1.98	3.82
10:14	54.3	101	2.08	1.98	3.82
10:15	53.0	101	2.08	1.98	3.82
10:16	54.6	101	2.08	1.98	3.82
10:17	54.2	101	2.08	1.98	3.82
10:18	55.4	101	2.07	1.98	3.82
10:19	54.1	101	2.07	1.98	3.82
10:20	53.7	101	2.07	1.98	3.82
10:21	54.8	101	2.07	1.98	3.82
10:22	54.8	101	2.07	1.98	3.82
10:23	54.5	101	2.07	1.98	3.83
10:24	53.9	101	2.07	1.98	3.83
10:25	55.0	101	2.07	1.98	3.83
10:26	54.7	101	2.07	1.98	3.83
10:27	55.4	101	2.07	1.98	3.83
10:28	54.6	101	2.07	1.98	3.83
10:29	54.2	101	2.06	1.98	3.83
10:30	54.3	101	2.06	1.98	3.83
10:31	54.1	101	2.06	1.98	3.83
10:32	54.7	101	2.06	1.98	3.83
10:33	54.7	101	2.06	1.98	3.83
10:34	54.3	101	2.06	1.98	3.83
10:35	54.4	101	2.06	1.98	3.83
10:36	54.7	101	2.06	1.98	3.83
10:37	55.1	101	2.06	1.98	3.83
10:38	55.0	101	2.06	1.98	3.83
10:39	54.9	101	2.05	1.98	3.83
10:40	54.4	101	2.05	1.98	3.83

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/14/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:41	53.7	101	2.05	1.98	3.83
10:42	53.8	101	2.05	1.98	3.83
10:43	54.3	101	2.05	1.98	3.83
10:44	54.1	101	2.05	1.98	3.83
10:45	54.6	101	2.05	1.98	3.83
10:46	54.8	101	2.05	1.98	3.83
10:47	54.9	101	2.05	1.98	3.83
10:48	54.0	101	2.05	1.98	3.83
10:49	53.1	101	2.05	1.98	3.83
10:50	54.1	101	2.04	1.98	3.83
10:51	53.5	101	2.04	1.99	3.83
10:52	53.2	101	2.04	1.99	3.83
10:53	55.3	101	2.04	1.99	3.83
10:54	55.2	101	2.04	1.99	3.83
10:55	55.3	101	2.04	1.99	3.83
10:56	54.5	101	2.04	1.99	3.83
10:57	54.9	101	2.04	1.99	3.83
10:58	54.8	101	2.04	1.99	3.83
10:59	54.6	101	2.04	1.99	3.83
11:00	55.0	101	2.03	1.99	3.83
11:01	54.6	101	2.03	1.99	3.83
11:02	54.8	101	2.03	1.99	3.83
11:03	55.6	101	2.03	1.99	3.83
11:04	54.7	101	2.03	1.99	3.83
11:05	54.9	101	2.03	1.99	3.83
11:06	55.5	101	2.03	1.99	3.83
11:07	55.7	101	2.03	1.99	3.83
11:08	55.5	101	2.03	1.99	3.83
11:09	55.2	101	2.03	1.99	3.84
11:10	55.6	101	2.03	1.99	3.84
11:11	55.5	101	2.02	1.99	3.84
11:12	53.9	101	2.02	1.99	3.84
11:13	54.6	101	2.02	1.99	3.84
11:14	55.3	101	2.02	1.99	3.84
11:15	54.7	101	2.02	1.99	3.84
11:16	54.9	101	2.02	1.99	3.84
11:17	54.5	101	2.02	1.99	3.84
11:18	54.2	101	2.02	1.99	3.84
11:19	55.3	101	2.02	1.99	3.84
11:20	55.3	101	2.02	1.99	3.84
11:21	55.2	101	2.01	1.99	3.84
11:22	53.4	101	2.01	1.99	3.84
11:23	53.8	101	2.01	1.99	3.84
11:24	54.6	101	2.01	1.99	3.84
11:25	54.4	101	2.01	1.99	3.84
11:26	54.7	101	2.01	1.99	3.84
11:27	53.7	101	2.01	1.99	3.84
11:28	53.9	101	2.01	1.99	3.84
11:29	53.6	101	2.01	1.99	3.84
11:30	53.3	101	2.01	1.99	3.84
11:31	53.5	101	2.01	1.99	3.84
11:32	53.6	101	2.00	1.99	3.84

BASF Corporation - McIntosh, Alabama

Boiler No. 7

Run 7

Date/Time	FT60852	PT60837_OMA	AT60819CO_OMA	AT60819CO_HRA	AT60819D_OMA
06/14/2024	Storage Tank Vent Gas Feed Rate	Atomizing Steam Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:33	54.3	101	2.00	1.99	3.84
11:34	53.8	101	2.00	1.99	3.84
11:35	53.9	101	2.00	2.00	3.84
11:36	51.7	101	2.00	2.00	3.84
11:37	53.8	101	2.00	2.00	3.84
11:38	53.8	101	2.00	2.00	3.85
11:39	53.5	101	2.00	2.00	3.85
11:40	52.8	101	2.00	2.00	3.85
11:41	53.7	101	2.00	2.00	3.85
11:42	53.5	101	2.00	2.00	3.85
11:43	53.5	101	1.99	2.00	3.85
11:44	54.2	101	1.99	2.00	3.85
11:45	54.5	101	1.99	2.00	3.85
11:46	53.5	101	1.99	2.00	3.85
11:47	53.3	101	1.99	2.00	3.85
11:48	53.7	101	1.99	2.00	3.85
11:49	53.6	101	1.99	2.00	3.85
11:50	53.4	101	1.99	2.00	3.85
11:51	53.3	101	1.99	2.00	3.85
11:52	53.9	101	1.99	2.00	3.85
11:53	53.4	101	1.98	2.00	3.85
11:54	52.3	101	1.98	2.00	3.85
11:55	52.7	101	1.98	2.00	3.85
11:56	53.4	101	1.98	2.00	3.85
11:57	53.1	101	1.98	2.00	3.85
11:58	53.2	101	1.98	2.00	3.85
11:59	53.0	101	1.98	2.00	3.84
12:00	52.8	101	1.98	2.00	3.84
12:01	52.2	101	1.98	2.00	3.84
12:02	52.9	101	1.98	2.00	3.84
12:03	52.7	101	1.98	2.00	3.84
12:04	53.0	101	1.97	2.00	3.84
12:05	53.9	101	1.97	2.00	3.84
12:06	53.6	101	1.97	2.00	3.84
12:07	54.7	101	1.97	2.00	3.84
12:08	54.2	101	1.97	2.00	3.84
12:09	53.4	101	1.97	2.00	3.84
12:10	52.3	101	1.97	2.00	3.84
12:11	52.8	101	1.97	2.00	3.84
12:12	53.1	101	1.97	2.00	3.85
12:13	53.9	101	1.97	2.00	3.85
12:14	54.1	101	1.96	2.00	3.85
12:15	54.0	101	1.96	2.00	3.85
12:16	52.6	101	1.96	2.00	3.85
12:17	52.5	101	1.96	2.00	3.85
12:18	53.0	101	1.96	2.00	3.85
12:19	53.4	101	1.96	2.01	3.85

Average	54.1	101	2.08	1.91	3.85
Minimum	51.7	101	1.96	1.67	3.82
Maximum	56.3	101	2.19	2.01	3.89

Appendix C: WASTE LIQUID FUEL SAMPLING REPORT

WASTE LIQUID FUEL SAMPLING REPORT

During each test run, the waste liquid fuel was sampled and analyzed for higher heating value. BASF Corporation (BASF) personnel collected the waste liquid fuel samples using a tap sampling procedure. The sampling tap was located in the waste feed line. The sample tap was clearly identified and was inspected by the Emission Test Manager prior to testing.

Samples were collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of the waste stream was collected into two separate bottles. At the conclusion of the run, each sample bottle had approximately 450 mL of sample.

The field duplicate samples were collected as described in the quality assurance project plan (QAPP). The field duplicates were collected during Run 4.

All samples were properly logged on the waste sampling forms. These forms indicate sampler's initials, the run number, the date, and the time the sample was collected. The completed forms are included in this waste liquid fuel sampling report.

BASF Corporation – McIntosh, Alabama
Waste Sampling Log

Unit: Boiler No. 7

Test: HWC NESHA Information Collection Request Emission Test

Run	Date	Waste Stream	Grab Sample	Time of Sample	Initials
1	6/11/24	V8-14	Beginning	0922	R.D.
			Middle	1135	JH
			End	1137	RD
2	6/11/24	V-814	Beginning	2:18	RD
			Middle	4:23	JAC
			End	6:24	JAC
3	6/12/24	V-814	Beginning	8:50	RD
			Middle	10:58	RD
			End	12:50	RD
4 plus duplicates	6/12/24	V-814	Beginning	1:40	RD
			Middle	3:55	P.F.
			End	5:55	P.F.

BASF Corporation – McIntosh, Alabama
Waste Sampling Log

Unit: Boiler No. 7

Test: HWC NESHAP Information Collection Request Emission Test

Run	Date	Waste Stream	Grab Sample	Time of Sample	Initials
5	6/13/24	V-814	Beginning	8:18	JH
			Middle	8:30	JH
			End	12:10	JH
6	6/13/24	V-814	Beginning	1:25	JH
			Middle	3:15	JH
			End	5:30	JD
7	6/14/24	V-814	Beginning	8:20	GC
			Middle	10:30	GC
			End	12:22	GC
			Beginning		
			Middle		
			End		

Appendix D: STACK SAMPLING REPORT



Source Test Report

BASF Corporation
1379 Ciba Road
McIntosh, AL 36553

Source Tested: Boiler No. 7
Test Dates: June 10-14, 2024
EPA FRS No.: 110000605051

Project No. AST-2024-2594

Prepared By
Alliance Technical Group, LLC
6110 Copperhead Road
Geismar, LA 70734

Regulatory Information

Regulatory Citation

Clean Air Act (CAA) Section 114 – Information Collection Request (ICR)

Source Information

Source Name
Boiler No. 7

Target Parameters
PAH/PCB, THC, HCN

Contact Information

Test Location
BASF Corporation
1379 Ciba Road
McIntosh, AL 36553

Test Company
Alliance Technical Group, LLC
6110 Copperhead Road
Geismar, LA 70734

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Report Reviewer
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Alliance Technical Group, LLC (Alliance) has completed the source testing as described in this report. Results apply only to the source tested and operating conditions for the specific test dates and times identified within this report. All results are intended to be considered in their entirety, and Alliance is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

To the best of my knowledge and abilities, all information, facts and test data are correct. Data presented in this report has been checked for completeness and is accurate, error-free and legible. Onsite testing was conducted in accordance with approved internal Standard Operating Procedures. Any deviations or problems are detailed in the relevant sections in the test report.

This report is only considered valid once an authorized representative of Alliance has signed in the space provided below; any other version is considered draft. This document was prepared in portable document format (.pdf) and contains pages as identified in the bottom footer of this document.



Jason LaCroix, QSTI
Alliance Technical Group, LLC

09/22/2024

Date

TABLE OF CONTENTS

1.0	Introduction	1-1
1.1	Project Team	1-1
1.2	Test Program Notes	1-1
2.0	Summary of Results	2-1
3.0	Testing Methodology	3-1
3.1	U.S. EPA Reference Test Methods 1 and 2 – Sampling/Traverse Points and Volumetric Flow Rate	3-1
3.2	U.S. EPA Reference Test Method 3A – Oxygen / Carbon Dioxide	3-1
3.3	U.S. EPA Reference Test Method 4 – Moisture Content	3-1
3.4	U.S. EPA Reference Test Method 23 – PAH and PCB	3-2
3.5	U.S. EPA Reference Test Method 25A – Total Hydrocarbons	3-3
3.6	U.S. EPA Reference Test Method 320 – Hydrogen Cyanide	3-4
3.7	U.S. EPA Reference Test Method 205 – Gas Dilution System Certification	3-4
3.8	Quality Assurance/Quality Control – U.S. EPA Reference Test Method 3A	3-4
3.9	Quality Assurance/Quality Control – U.S. EPA Reference Test Method 25A	3-5
3.10	Quality Assurance/Quality Control – U.S. EPA Reference Method 320	3-6

LIST OF TABLES

Table 1-1: Project Team	1-1
Table 2-1: Summary of Results – Hydrogen Cyanide (HCN)	2-1
Table 2-2: Summary of Results – Total Hydrocarbons (THC)	2-1
Table 2-3: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH)- ng/dscm	2-2
Table 2-4: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH) – ng/dscm @ 7% oxygen	2-3
Table 2-5: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm	2-4
Table 2-6: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm @ 7% oxygen	2-5
Table 3-1: Source Testing Methodology	3-1

APPENDICES

Appendix A	Sample Calculations
Appendix B	Emissions Summaries
Appendix C	Field Data
Appendix D	Quality Assurance/Quality Control Data
Appendix E	CSV Data

Introduction

1.0 Introduction

Alliance Technical Group, LLC (Alliance) was retained by BASF Corporation (BASF) to conduct Clean Air Act (CAA) Section 114 information collection request (ICR) testing at the McIntosh, Alabama facility at the request of the United States Environmental Protection Agency (USEPA). Testing was conducted to determine the emission concentrations of polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), total hydrocarbons (THC) and hydrogen cyanide (HCN) at the exhaust of the Boiler No. 7. This source is regulated under 40 CFR 63, Subpart EEE which is subject to this ICR.

1.1 Project Team

Personnel involved in this project are identified in the following table.

Table 1-1: Project Team

BASF Personnel	Wayne Goldman
Alliance Personnel	Jason LaCroix Buford Hebert Phillip Painter Ryan Simon Michael Sproles

1.2 Test Program Notes

Calibration drift checks were performed on the Method 25A THC reference monitor hourly. Approximate 10-to-15-minute gaps in recorded THC data are noted due to these required QA checks. The EPA Method 320 HCN sampling was conducted using a shared heated sample line and therefore has corresponding data gaps during the THC QA drift checks.

Summary of Results

2.0 Summary of Results

Alliance conducted CAA Section 114 ICR testing at the BASF facility in McIntosh, Alabama on June 10-14, 2024. Testing consisted of determining the emission rates of PAH, PCB, THC and HCN at the exhaust of the Boiler No. 7.

Tables 2-1 through 2-6 provide summaries of the emission testing results. All results provided in these tables are on a concentration basis. Mass emission rates are provided in Appendix B. Any difference between the summary results listed in the following tables and the detailed results contained in appendices is due to rounding for presentation.

Result Tables Flag Definitions:

BDL - Below Detection Level

DLL - Detection Level Limited

ADL - Above Detection Level

Table 2-1: Summary of Results – Hydrogen Cyanide (HCN)

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	6/11/24		6/11/24		6/12/24		6/12/24	
Hydrogen Cyanide Data								
ppmvd	2.60	ADL	2.72	ADL	2.39	ADL	2.60	ADL
ppmvd @ 7% O ₂	2.12		2.21		1.94		2.11	
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	6/13/24		6/13/24		6/14/24		--	
Hydrogen Cyanide Data								
ppmvd	2.31	ADL	2.40	ADL	2.29	ADL	2.50	ADL
ppmvd @ 7% O ₂	1.90		1.96		1.87		2.04	

Table 2-2: Summary of Results – Total Hydrocarbons (THC)

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	6/11/24		6/11/24		6/12/24		6/12/24	
Total Hydrocarbons (as Propane) Data								
ppmvd	0.150	ADL	0.193	ADL	0.0107	ADL	0.0390	ADL
ppmvd @ 7% O ₂	0.122		0.157		0.00870		0.0317	
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	6/13/24		6/13/24		6/14/24		--	
Total Hydrocarbons (as Propane) Data								
ppmvd	0.0305	ADL	0.0488	ADL	0.00231	ADL	0.0676	ADL
ppmvd @ 7% O ₂	0.0250		0.0398		0.00188		0.0551	

Table 2-3: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH)- ng/dscm

Run Number Date	Run 1 6/11/24	Flag	Run 2 6/11/24	Flag	Run 3 6/12/24	Flag	Run 4 6/12/24	Flag	Run 5 6/13/24	Flag	Run 6 6/13/24	Flag	Run 7 6/14/24	Flag	Average
Naphthalene	176	ADL	87.3	ADL	151	ADL	187	ADL	158	ADL	113	ADL	135	ADL	144
2-Methylnaphthalene	88.4	ADL	32.0	ADL	54.4	ADL	82.8	ADL	51.1	ADL	32.2	ADL	38.6	ADL	54.2
Acenaphthylene	8.09	ADL	0.484	ADL	1.87	ADL	2.02	ADL	4.41	ADL	2.32	ADL	2.77	ADL	3.14
Acenaphthene	24.0	ADL	3.58	ADL	11.2	ADL	15.9	ADL	14.2	ADL	7.68	ADL	8.66	ADL	12.2
Fluorene	52.7	ADL	4.02	ADL	21.9	ADL	26.6	ADL	42.0	ADL	16.3	ADL	20.8	ADL	26.3
Phenanthrene	179	ADL	16.1	ADL	67.0	ADL	68.9	ADL	139	ADL	60.3	ADL	83.0	ADL	87.6
Anthracene	21.0	ADL	0.733	ADL	7.25	ADL	6.80	ADL	16.1	ADL	6.26	ADL	8.66	ADL	9.55
Fluoranthene	25.2	ADL	12.0	ADL	9.94	ADL	16.6	ADL	18.0	ADL	8.81	ADL	13.2	ADL	14.8
Pyrene	26.6	ADL	20.4	ADL	11.3	ADL	23.7	ADL	18.9	ADL	10.7	ADL	14.7	ADL	18.1
Benz[a]anthracene	0.795	ADL	1.63	ADL	0.652	ADL	1.23	ADL	1.41	ADL	0.688	ADL	0.951	ADL	1.05
Chrysene	4.46	ADL	4.42	ADL	3.63	ADL	4.14	ADL	3.62	ADL	2.23	ADL	2.75	ADL	3.61
Benzo[b]fluoranthene	3.27	ADL	3.92	ADL	3.55	ADL	4.91	ADL	1.50	ADL	1.10	ADL	1.17	ADL	2.77
Benzo[k]fluoranthene	1.17	ADL	1.15	ADL	1.05	ADL	2.01	ADL	0.926	ADL	0.549	ADL	0.656	ADL	1.07
Benzo[e]pyrene	42.6	ADL	14.4	ADL	4.58	ADL	19.5	ADL	3.50	ADL	3.45	ADL	2.60	ADL	12.9
Benzo[a]pyrene	1.95	ADL	1.18	ADL	1.69	ADL	2.33	ADL	0.879	ADL	0.781	ADL	0.769	ADL	1.37
Perylene	0.971	ADL	0.268	ADL	0.803	ADL	8.74	ADL	0.362	ADL	0.242	ADL	0.432	ADL	1.69
Indeno(1,2,3-cd)pyrene	2.04	ADL	3.06	ADL	2.01	ADL	8.36	ADL	1.60	ADL	2.01	ADL	1.31	ADL	2.91
Dibenz[a,h]anthracene	0.836	ADL	1.13	ADL	2.05	ADL	2.08	ADL	1.53	ADL	1.24	ADL	1.19	ADL	1.44
Benzo[g,h,i]perylene	4.20	ADL	14.1	ADL	4.26	ADL	26.4	ADL	5.99	ADL	11.0	ADL	4.10	ADL	10.0
Total PAH	685	ADL	223	ADL	368	ADL	517	ADL	499	ADL	288	ADL	350	ADL	418

Note: All samples results from the lab were flagged B- Compound found in the blank and sample.

Table 2-4: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH) – ng/dscm @ 7% oxygen

Run Number Date	Run 1 6/11/24	Flag	Run 2 6/11/24	Flag	Run 3 6/12/24	Flag	Run 4 6/12/24	Flag	Run 5 6/13/24	Flag	Run 6 6/13/24	Flag	Run 7 6/14/24	Flag	Average
Naphthalene	144	ADL	71.1	ADL	123	ADL	152	ADL	130	ADL	92.6	ADL	110	ADL	117
2-Methylnaphthalene	72.0	ADL	26.1	ADL	44.2	ADL	67.2	ADL	42.0	ADL	26.3	ADL	31.4	ADL	44.2
Acenaphthylene	6.59	ADL	0.394	ADL	1.52	ADL	1.64	ADL	3.62	ADL	1.89	ADL	2.25	ADL	2.56
Acenaphthene	19.6	ADL	2.91	ADL	9.08	ADL	12.9	ADL	11.7	ADL	6.27	ADL	7.06	ADL	9.92
Fluorene	42.9	ADL	3.27	ADL	17.8	ADL	21.6	ADL	34.5	ADL	13.3	ADL	16.9	ADL	21.5
Phenanthrene	146	ADL	13.1	ADL	54.4	ADL	55.9	ADL	114	ADL	49.2	ADL	67.6	ADL	71.5
Anthracene	17.1	ADL	0.597	ADL	5.88	ADL	5.52	ADL	13.3	ADL	5.11	ADL	7.06	ADL	7.79
Fluoranthene	20.5	ADL	9.75	ADL	8.07	ADL	13.5	ADL	14.8	ADL	7.19	ADL	10.8	ADL	12.1
Pyrene	21.7	ADL	16.6	ADL	9.19	ADL	19.2	ADL	15.6	ADL	8.75	ADL	12.0	ADL	14.7
Benz[a]anthracene	0.648	ADL	1.32	ADL	0.530	ADL	0.994	ADL	1.16	ADL	0.562	ADL	0.775	ADL	0.856
Chrysene	3.63	ADL	3.60	ADL	2.95	ADL	3.36	ADL	2.98	ADL	1.82	ADL	2.24	ADL	2.94
Benzo[b]fluoranthene	2.66	ADL	3.19	ADL	2.88	ADL	3.98	ADL	1.23	ADL	0.902	ADL	0.953	ADL	2.26
Benzo[k]fluoranthene	0.952	ADL	0.932	ADL	0.856	ADL	1.63	ADL	0.762	ADL	0.448	ADL	0.535	ADL	0.874
Benzo[e]pyrene	34.7	ADL	11.7	ADL	3.72	ADL	15.8	ADL	2.88	ADL	2.82	ADL	2.12	ADL	10.5
Benzo[a]pyrene	1.59	ADL	0.961	ADL	1.37	ADL	1.89	ADL	0.723	ADL	0.637	ADL	0.627	ADL	1.11
Perylene	0.791	ADL	0.218	ADL	0.652	ADL	7.09	ADL	0.298	ADL	0.198	ADL	0.352	ADL	1.37
Indeno(1,2,3-cd)pyrene	1.66	ADL	2.49	ADL	1.63	ADL	6.79	ADL	1.32	ADL	1.64	ADL	1.06	ADL	2.37
Dibenz[a,h]anthracene	0.681	ADL	0.919	ADL	1.66	ADL	1.69	ADL	1.26	ADL	1.01	ADL	0.968	ADL	1.17
Benzo[g,h,i]perylene	3.42	ADL	11.5	ADL	3.45	ADL	21.4	ADL	4.92	ADL	9.02	ADL	3.34	ADL	8.15
Total PAH	558	ADL	181	ADL	299	ADL	419	ADL	410	ADL	235	ADL	285	ADL	341

Note: All samples results from the lab were flagged B- Compound found in the blank and sample.

Table 2-5: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm

Run Number Date	Run 1 6/11/24	Flag	Run 2 6/11/24	Flag	Run 3 6/12/24	Flag	Run 4 6/12/24	Flag	Run 5 6/13/24	Flag	Run 6 6/13/24	Flag	Run 7 6/14/24	Flag	Average
2,4'-DiCB (PCB-8)	0.118	ADL	0.0566	ADL	0.0373	ADL	0.0755	ADL	0.0980	ADL	0.0545	ADL	0.0749	ADL	0.0735
2,2',5'-TrCB (PCB-18)	0.0575	BDL	0.0595	ADL	0.0311	ADL	0.0545	ADL	0.0943	ADL	0.0575	ADL	0.0747	ADL	0.0613
2,4,4'-TrCB (PCB-28)	0.559	ADL	0.0377	ADL	0.139	ADL	0.117	ADL	0.212	ADL	0.157	ADL	0.173	ADL	0.199
2,2',3,5'-TeCB (PCB-44)	0.939	ADL	0.0723	ADL	0.359	ADL	0.337	ADL	0.745	ADL	0.388	ADL	0.488	ADL	0.476
2,2',5,5'-TeCB (PCB-52)	0.268	ADL	0.0415	ADL	0.100	ADL	0.0818	ADL	0.174	ADL	0.112	ADL	0.145	ADL	0.132
2,3',4,4'-TeCB (PCB-66)	0.287	ADL	0.0189	ADL	0.0765	ADL	0.0491	ADL	0.0754	ADL	0.0785	ADL	0.0700	ADL	0.0936
3,3',4,4'-TeCB (PCB-77)	0.0293	ADL	0.0205	ADL	0.0122	ADL	0.0165	ADL	0.0259	BDL	0.0139	ADL	0.00805	ADL	0.0181
3,4,4',5'-TeCB (PCB-81)	0.0194	BDL	0.0201	BDL	0.0193	BDL	0.0200	BDL	0.0198	BDL	0.0206	BDL	0.0194	BDL	0.0198
2,2',4,5,5'-PeCB (PCB-101)	0.0614	ADL	0.0373	ADL	0.0263	ADL	0.0391	ADL	0.0469	ADL	0.0242	ADL	0.0438	ADL	0.0399
2,3',3,4,4'-PeCB (PCB-105)	0.0156	ADL	0.0125	ADL	0.0103	ADL	0.0175	ADL	0.0175	ADL	0.0092	ADL	0.0117	ADL	0.0135
2,3,4,4',5'-PeCB (PCB-114)	0.0333	BDL	0.0346	BDL	0.0331	BDL	0.0343	BDL	0.0340	BDL	0.0354	BDL	0.0333	BDL	0.0340
2,3',4,4',5'-PeCB (PCB-118)	0.0321	ADL	0.0325	ADL	0.0233	ADL	0.0337	ADL	0.0344	ADL	0.0195	ADL	0.0291	ADL	0.0292
2',3,4,4',5'-PeCB (PCB-123)	0.0345	BDL	0.0358	BDL	0.0343	BDL	0.0356	BDL	0.0352	BDL	0.0367	BDL	0.0345	BDL	0.0352
3,3',4,4',5'-PeCB (PCB-126)	0.0248	BDL	0.0258	BDL	0.0247	BDL	0.0256	BDL	0.0253	BDL	0.0264	BDL	0.0248	BDL	0.0253
2,2',3,3',4,4'-HxCB (PCB-128)	0.0412	BDL	0.0158	ADL	0.00771	ADL	0.0120	ADL	0.00834	ADL	0.00115	ADL	0.00533	ADL	0.0131
2,2',3,4,4',5'-HxCB (PCB-138)	0.0367	ADL	0.0875	ADL	0.0235	ADL	0.0728	ADL	0.0535	ADL	0.0114	ADL	0.0345	ADL	0.0457
2,2',4,4',5,5'-HxCB (PCB-153)	0.0220	ADL	0.0511	ADL	0.0321	ADL	0.0458	ADL	0.0315	ADL	0.0108	ADL	0.0178	ADL	0.0302
2,3,3',4,4',5'-HxCB (PCB-156)	0.00361	ADL	0.00377	ADL	0.00117	ADL	0.00649	ADL	0.00498	ADL	0.0547	BDL	0.00295	ADL	0.0111
2,3,3',4,4',5'-HxCB (PCB-157)	0.00361	ADL	0.00377	ADL	0.00117	ADL	0.00649	ADL	0.00498	ADL	0.0547	BDL	0.00295	ADL	0.0111
2,3',4,4',5,5'-HxCB (PCB-167)	0.00208	ADL	0.0377	BDL	0.0361	BDL	0.0375	BDL	0.0371	BDL	0.0386	BDL	0.0363	BDL	0.0322
3,3',4,4',5,5'-HxCB (PCB-169)	0.00610	ADL	0.00134	ADL	0.0247	BDL	0.0256	BDL	0.0253	BDL	0.0264	BDL	0.0248	BDL	0.0184
2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00182	ADL	0.00488	ADL	0.00102	ADL	0.00264	ADL	0.00239	ADL	0.00423	ADL	0.00260	ADL	0.00280
2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00610	ADL	0.00616	ADL	0.0375	ADL	0.00782	ADL	0.00673	ADL	0.00320	ADL	0.00478	ADL	0.0103
2,2',3,4',5,5',6'-HpCB (PCB-187)	0.00194	ADL	0.00511	ADL	0.0494	ADL	0.00512	ADL	0.00410	ADL	0.00177	ADL	0.00246	ADL	0.00998
2,3,3',4,4',5,5'-HpCB (PCB-189)	0.0297	BDL	0.0308	BDL	0.0295	BDL	0.0306	BDL	0.0303	BDL	0.0315	BDL	0.0297	BDL	0.0303
2,2',3,3',4,4',5,6'-OeCB (PCB-195)	0.0321	BDL	0.0333	BDL	0.00444	ADL	0.0331	BDL	0.0327	BDL	0.0341	BDL	0.0321	BDL	0.0288
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206)	0.0345	BDL	0.0358	BDL	0.0343	BDL	0.0356	BDL	0.0352	BDL	0.0367	BDL	0.0345	BDL	0.0352
2,2',3,3',4,4',5,5',6',6'-DeCB (PCB-209)	0.00610	ADL	0.00484	ADL	0.0277	BDL	0.00356	ADL	0.0284	BDL	0.00219	ADL	0.00351	ADL	0.0109
Total PCB	2.70	DLL	0.827	DLL	1.24	DLL	1.26	DLL	1.94	DLL	1.34	DLL	1.46	DLL	1.54

Table 2-6: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm @ 7% oxygen

Run Number Date	Run 1 6/11/24	Run 2 6/11/24	Run 3 6/12/24	Run 4 6/12/24	Run 5 6/13/24	Run 6 6/13/24	Run 7 6/14/24	Flag	Average
2,4'-DiCB (PCB-8)	0.0960	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0600
2,2',5'-TrCB (PCB-18)	0.0468	BDL	ADL	ADL	ADL	ADL	ADL	ADL	0.0500
2,4,4'-TrCB (PCB-28)	0.455	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.162
2,2',3,5'-TeCB (PCB-44)	0.764	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.388
2,2',5,5'-TeCB (PCB-52)	0.219	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.108
2,3',4,4'-TeCB (PCB-66)	0.233	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0763
3,3',4,4'-TeCB (PCB-77)	0.0238	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0147
3,4,4',5'-TeCB (PCB-81)	0.0158	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0161
2,2',4,5,5'-PeCB (PCB-101)	0.0500	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0325
2,3',3,4,4'-PeCB (PCB-105)	0.0127	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0110
2,3,4,4',5'-PeCB (PCB-114)	0.0271	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0277
2,3',4,4',5'-PeCB (PCB-118)	0.0261	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0238
2',3,4,4',5'-PeCB (PCB-123)	0.0281	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0287
3,3',4,4',5'-PeCB (PCB-126)	0.0202	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0207
2,2',3,3',4,4'-HxCB (PCB-128)	0.0335	BDL	ADL	ADL	ADL	ADL	ADL	ADL	0.0106
2,2',3,4,4',5'-HxCB (PCB-138)	0.0299	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0373
2,2',4,4',5,5'-HxCB (PCB-153)	0.0179	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0246
2,3,3',4,4',5'-HxCB (PCB-156)	0.00294	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00905
2,3,3',4,4',5'-HxCB (PCB-157)	0.00294	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00905
2,3',4,4',5,5'-HxCB (PCB-167)	0.00169	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0262
3,3',4,4',5,5'-HxCB (PCB-169)	0.000496	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.0150
2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00148	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00228
2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00496	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00841
2,2',3,4',5,5',6'-HpCB (PCB-187)	0.00158	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00811
2,3,3',4,4',5,5'-HpCB (PCB-189)	0.0242	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0247
2,2',3,3',4,4',5,6'-OeCB (PCB-195)	0.0261	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0235
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206)	0.0281	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0287
2,2',3,3',4,4',5,5',6',6'-DeCB (PCB-209)	0.00496	ADL	ADL	ADL	ADL	ADL	ADL	ADL	0.00890
Total PCB	2.20	DLL	DLL	DLL	DLL	DLL	DLL	DLL	1.26

Testing Methodology

3.0 Testing Methodology

The emission testing program was conducted in accordance with the test methods listed in Table 3-1. Method descriptions are provided below while quality assurance/quality control data is provided in Appendix D.

Table 3-1: Source Testing Methodology

Parameter	U.S. EPA Reference Test Methods	Notes/Remarks
Volumetric Flow Rate	1 & 2	Full Velocity Traverses
Oxygen/Carbon Dioxide	3A	Instrumental Analysis
Moisture Content	4	Gravimetric Analysis
PAH & PCB	23	Isokinetic Sampling
Total Hydrocarbons	25A	Instrumental Analysis
Hydrogen Cyanide	320	FTIR – Continuous Sampling
Gas Dilution System Certification	205	--

3.1 U.S. EPA Reference Test Methods 1 and 2 – Sampling/Traverse Points and Volumetric Flow Rate

The sampling location and number of traverse (sampling) points were selected in accordance with U.S. EPA Reference Test Method 1. To determine the minimum number of traverse points, the upstream and downstream distances were equated into equivalent diameters and compared to Figure 1-1 (for isokinetic sampling) in U.S. EPA Reference Test Method 1.

Full velocity traverses were conducted in accordance with U.S. EPA Reference Test Method 2 to determine the average stack gas velocity pressure, static pressure and temperature. The velocity and static pressure measurement system consisted of a pitot tube and inclined manometer. The stack gas temperature was measured with a K-type thermocouple and pyrometer.

Stack gas velocity pressure and temperature readings were recorded during each test run. The data collected was utilized to calculate the volumetric flow rate in accordance with U.S. EPA Reference Test Method 2.

3.2 U.S. EPA Reference Test Method 3A – Oxygen / Carbon Dioxide

The oxygen (O₂) and carbon dioxide (CO₂) testing was conducted in accordance with U.S. EPA Reference Test Method 3A. Data was collected online and reported in one-minute averages. The sampling system consisted of a stainless-steel probe, Teflon sample line(s), gas conditioning system and the identified gas analyzer. The gas conditioning system was a non-contact condenser used to remove moisture from the stack gas. A heated Teflon sample line was used. The quality control measures are described in Section 3.8.

3.3 U.S. EPA Reference Test Method 4 – Moisture Content

The stack gas moisture content (BWS) was determined in accordance with U.S. EPA Reference Test Method 4. The gas conditioning train consisted of a series of chilled impingers. Prior to testing, each impinger was filled with a known quantity of water or silica gel. Each impinger was analyzed gravimetrically before and after each test run on the same balance to determine the amount of moisture condensed.

3.4 U.S. EPA Reference Test Method 23 – PAH and PCB

The PAH and PCB testing was conducted in accordance with U.S. EPA Reference Test Method 23. The sampling system consisted of a glass nozzle, heated glass-lined probe, glass filter holder with pre-cleaned heated glass-fiber filter, condenser coil, XAD sorbent module, gas conditioning train, pump and calibrated dry gas meter. The gas conditioning system consisted of five (5) chilled impingers. The first impinger was empty. The next two (2) impingers each contained 100 mL of water. The fourth impinger was empty while the fifth impinger was charged with 200-300 grams of silica gel. The probe liner and filter heating systems were maintained at a temperature of $120 \pm 14^{\circ}\text{C}$ ($248 \pm 25^{\circ}\text{F}$), and the impinger temperature was maintained at 20°C (68°F) or less throughout testing.

Method 23 Section 6.1.7 requires the condenser to be oriented at an angle to cause moisture to flow down to the XAD adsorbent module to facilitate condensate drainage. Glassware with this configuration is not currently available from a national supplier utilizing a large enough condenser to meet the temperature specifications of the method. Alliance will continue to work with manufacturers, but until equipment is widely available, the horizontal or vertical condenser configuration from traditional Method 23 was utilized.

All glassware leading to the XAD adsorbing resin trap was cleaned and sealed before mobilizing to the site. Glassware cleaning consisted of washing with warm soapy water and rinsing with distilled water and acetone. The sampling train was assembled in the sample recovery area. The glass-fiber filter was placed in a glass filter holder with a Teflon filter support and connected to the condenser coil. All open ends of the sampling train were sealed with Teflon tape prior to complete assembly at the sampling location.

Following the completion of each test run, the sampling train was leak checked at vacuum pressure greater than or equal to the highest vacuum pressure observed during the run and the contents of the impingers were measured for moisture gain. The XAD sorbent module was sealed on both ends and placed on ice. The filter was removed from the filter holder and placed in sample container 1. The nozzle, probe liner, filter holder, condenser and all connecting glassware were triple-rinsed and brushed with acetone and then toluene, and these rinses were recovered in sample container 2. The impinger water condensate was recovered into sample container 3a. All impingers were then rinsed three times with acetone and then three times with toluene and collected in sample container 3b. All containers were sealed, labeled and liquid levels marked for transport to the identified laboratory for analysis.

Method 23 Section 8.2.9 has the impinger water and solvent rinses collected in a single container (No. 3). Due to analytical method development constraints of the subcontracted laboratory, it was necessary to split this recovery between two containers: condensate (Container No. 3a) and solvent rinses (Container No. 3b).

A field train proof blank was collected. A complete sampling system was placed at the sampling location and multiple leak checks were performed on the system similar to an actual testing scenario. The sample train was then moved to the mobile laboratory for recovery. A full set of reagent blanks including a filter and a trap were also submitted to the laboratory.

Targeted PAH and PCB analytes are detailed below:

PAH Analytes			
PAH Compound	CAS Number	PAH Compound	CAS Number
Naphthalene	91-20-3	Chrysene	218-01-9
2-Methylnaphthalene	91-57-6	Benzo[b]fluoranthene	205-99-2
Acenaphthylene	208-96-8	Benzo[k]fluoranthene	207-08-9
Acenaphthene	83-32-9	Perylene	198-55-8
Fluorene	86-73-7	Benzo[a]pyrene	50-32-8
Anthracene	120-12-7	Benzo[e]pyrene	192-97-2
Phenanthrene	85-01-8	Benzo[g,h,i]perylene	191-24-2
Fluoranthene	206-44-0	Indeno[1,2,3-cd]pyrene	193-39-5
Pyrene	129-00-0	Dibenz[a,h]anthracene	53-70-3
Benz[a]anthracene	56-55-3		
PCB Analytes			
PCB Congener	CAS Number	PCB Congener	CAS Number
2,4'-DiCB	34883-43-7	2,2',3,3',4,4'-HxCB	38380-07-3
2,2',5-TrCB	37680-65-2	2,2',3,4,4',5'-HxCB	35065-28-2
2,4,4'-TrCB	7012-37-5	2,2',4,4',5,5'-HxCB	35065-27-1
2,2',3,5'-TeCB	41464-39-5	2,3,3',4,4',5-HxCB	38380-08-4
2,2',5,5'-TeCB	35693-99-3	2,3,3',4,4',5'-HxCB	69782-90-7
2,3',4,4'-TeCB	32598-10-0	2,3',4,4',5,5'-HxCB	52663-72-6
3,3',4,4'-TeCB	32598-13-3	3,3',4,4',5,5'-HxCB	32774-16-6
3,4,4',5-TeCB	70362-50-4	2,2',3,3',4,4',5-HpCB	35065-30-6
2,2',4,5,5'-PeCB	37680-73-2	2,2',3,4,4',5,5'-HpCB	35065-29-3
2,3,3',4,4'-PeCB	32598-14-4	2,2',3,4',5,5',6-HpCB	52663-68-0
2,3,4,4',5-PeCB	74472-37-0	2,3,3',4,4',5,5'-HpCB	39635-31-9
2,3',4,4',5-PeCB	31508-00-6	2,2',3,3',4,4',5,6-OcCB	52663-78-2
2',3,4,4',5-PeCB	65510-44-3	2,2',3,3',4,4',5,5',6-NoCB	40186-72-9
3,3',4,4',5-PeCB	57465-28-8	2,2',3,3',4,4',5,5',6,6'-DeCB	2051-24-3

3.5 U.S. EPA Reference Test Method 25A – Total Hydrocarbons

The total hydrocarbons (THC) testing was conducted in accordance with U.S. EPA Reference Test Method 25A. Data was collected online and reported in one-minute averages. The sampling system consisted of a stainless-steel probe, heated Teflon sample line(s) and the identified gas analyzer. The quality control measures are described in Section 3.9.

3.6 U.S. EPA Reference Test Method 320 – Hydrogen Cyanide

The concentrations of hydrogen cyanide (HCN) were determined in accordance with U.S. EPA Reference Test Method 320. Each source gas stream was extracted at a constant rate through a heated probe, heated filter and heated sample line and analyzed with a MKS MultiGas 2030 FTIR operated by a portable computer. The computer has FTIR spectra of calibration gases stored on the hard drive. These single component calibration spectra are used to analyze the measured sample spectra. The gas components to be measured were selected from the spectra library and incorporated into the analytical method. The signal amplitude, linearity, and signal to noise ratio were measured and recorded to document analyzer performance. A leak check was performed on the sample cell. The instrument path length was verified using ethylene as the Calibration Transfer Standard. Dynamic spiking was performed using a certified standard of the target compound in nitrogen with sulfur hexafluoride blended as a tracer to calculate the dilution factor. All test spectra, interferograms, and analytical method information are recorded and stored with the calculated analytical results. The quality control measures are described in Section 3.10.

3.7 U.S. EPA Reference Test Method 205 – Gas Dilution System Certification

A calibration gas dilution system field check was conducted in accordance with U.S. EPA Reference Method 205. An initial three (3) point calibration was conducted, using individual Protocol 1 gases, on the analyzer used to complete the dilution system field check. Multiple dilution rates and total gas flow rates were utilized to force the dilution system to perform two dilutions on each mass flow controller. The diluted calibration gases was sent directly to the analyzer, and the analyzer response recorded in an electronic field data sheet. A mid-level supply gas, with a cylinder concentration within 10% of one of the gas divider settings described above, was introduced directly to the analyzer, and the analyzer response recorded in an electronic field data sheet. The cylinder concentration and the analyzer response agreed within 2%. These steps were repeated three (3) times. The average analyzer response agreed within 2% of the predicted gas concentration. No single injection differed more than 2% from the average instrument response for that dilution. Copies of the Method 205 data can be found in the Quality Assurance/Quality Control Appendix.

3.8 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 3A

Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

Low Level gas was introduced directly to the analyzer. After adjusting the analyzer to the Low-Level gas concentration and once the analyzer reading was stable, the analyzer value was recorded. This process was repeated for the High-Level gas. For the Calibration Error Test, Low, Mid, and High Level calibration gases were sequentially introduced directly to the analyzer. All values were within 2.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever was closer to the stack gas concentration) was introduced at the probe and the time required for the analyzer reading to reach 95 percent or 0.5% (whichever was less restrictive) of the gas concentration was recorded. The analyzer reading was observed until it reached a stable value, and this value was recorded. Next, Low Level gas was introduced at the probe and the time required for the analyzer reading to decrease to a value within 5.0 percent or 0.5% (whichever was less restrictive) was recorded. If the Low-Level gas was zero gas, the response was 0.5% or 5.0 percent of the upscale gas concentration (whichever was less restrictive). The analyzer reading was observed until it reached a stable value and this value was recorded.

The measurement system response time and initial system bias were determined from these data. The System Bias was within 5.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever was closer to the stack gas concentration) was introduced at the probe. After the analyzer response was stable, the value was recorded. Next, Low Level gas was introduced at the probe, and the analyzer value recorded once it reached a stable response. The System Bias was within 5.0 percent of the Calibration Span or 0.5% absolute difference or the data was invalidated and the Calibration Error Test and System Bias were repeated.

Drift between pre- and post-run System Bias was within 3 percent of the Calibration Span or 0.5% absolute difference. If the drift exceeded 3 percent or 0.5%, the Calibration Error Test and System Bias were repeated.

To determine the number of sampling points, a gas stratification check was conducted prior to initiating testing. The pollutant concentrations were measured at three points (16.7, 50.0 and 83.3 percent of the measurement line). Each traverse point was sampled for a minimum of twice the system response time.

The diluent concentration at each traverse point did not differ more than 5 percent of the average pollutant concentration, and three (3) point sampling was conducted (stacks less than 7.8 feet in diameter - 16.7, 50.0 and 83.3 percent of the measurement line). Copies of stratification check data can be found in the Field Data Appendix.

A Data Acquisition System with battery backup was used to record the instrument response in one (1) minute averages. The data was continuously stored as a *.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data was also saved to the Alliance server. All data was reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data was relinquished to the report coordinator and then a final review was performed by the Project Manager.

3.9 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 25A

Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

Within two (2) hours prior to testing, zero gas was introduced through the sampling system to the analyzer. After adjusting the analyzer to the Zero gas concentration and once the analyzer reading was stable, the analyzer value was recorded. This process was repeated for the High-Level gas, and the time required for the analyzer reading to reach 95 percent of the gas concentration was recorded to determine the response time. Next, Low and Mid-Level gases were introduced through the sampling system to the analyzer, and the response was recorded when it was stable. All values were less than +/- 5 percent of the calibration gas concentrations.

Mid-Level gas was introduced through the sampling system. After the analyzer response was stable, the value was recorded. Next, Zero gas was introduced through the sampling system, and the analyzer value recorded once it reached a stable response. The Analyzer Drift was less than +/- 3 percent of the span value. Analyzer drift checks were conducted once hourly during testing.

A Data Acquisition System with battery backup was used to record the instrument response in one (1) minute averages. The data was continuously stored as a *.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data was also saved to the Alliance server. All data was reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data was relinquished to the report coordinator and then a final review was performed by the Project Manager.

3.10 Quality Assurance/Quality Control – U.S. EPA Reference Method 320

EPA Protocol 1 Calibration Gases – Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

After providing ample time for the FTIR to reach the desired temperature and to stabilize, zero gas (nitrogen) was introduced directly to the instrument sample port. While flowing nitrogen the signal amplitude was recorded, a background spectra was taken, a linearity check was performed and recorded, the peak to peak noise and the root mean square in the spectral region of interest was measured and a screenshot was recorded.

Following the zero gas checks, room air was pulled through the sample chamber and the line width and resolution was verified to be at 1879 cm⁻¹, the peak position was entered and the FWHH was recorded (screenshot). Following these checks, another background spectra was recorded and the calibration transfer standard (CTS) was introduced directly to the instrument sample port. The CTS instrument recovery was recorded and the instrument mechanical response time was measured.

Next, stack gas was introduced to the FTIR through the sampling system and several scans were taken until a stable reading was achieved. The native concentration of our target spiking analyte (HCN) was recorded. Spike gas was introduced to the sampling system at a constant flow rate $\leq 10\%$ of the total sample flow rate and a corresponding dilution ratio was calculated along with a system response time. Matrix spike recovery spectra were recorded and were within the $\pm 30\%$ of the calculated value of the spike concentration that the method requires.

The matrix spike recovery was conducted once at the beginning of the testing and the CTS recovery procedures were repeated following each test run. The corresponding values were recorded.

Appendix A

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Run No.: 1
Parameters: PAH/PCB

Meter Pressure (Pm), in. Hg

$$P_m = P_b + \frac{\Delta H}{13.6}$$

where,

$$\begin{aligned} P_b & \frac{29.85}{\text{in. Hg}} = \text{barometric pressure, in. Hg} \\ \Delta H & \frac{1.764}{\text{in. H}_2\text{O}} = \text{pressure differential of orifice, in. H}_2\text{O} \\ P_m & \frac{29.98}{\text{in. Hg}} = \text{in. Hg} \end{aligned}$$

Absolute Stack Gas Pressure (Ps), in. Hg

$$P_s = P_b + \frac{P_g}{13.6}$$

where,

$$\begin{aligned} P_b & \frac{29.85}{\text{in. Hg}} = \text{barometric pressure, in. Hg} \\ P_g & \frac{0.30}{\text{in. H}_2\text{O}} = \text{static pressure, in. H}_2\text{O} \\ P_s & \frac{29.87}{\text{in. Hg}} = \text{in. Hg} \end{aligned}$$

Standard Meter Volume (Vmstd), dscf

$$V_{mstd} = \frac{17.636 \times Y \times V_m \times P_m}{T_m}$$

where,

$$\begin{aligned} Y & \frac{1.018}{\text{dscf}} = \text{meter correction factor} \\ V_m & \frac{175.144}{\text{cf}} = \text{meter volume, cf} \\ P_m & \frac{29.98}{\text{in. Hg}} = \text{absolute meter pressure, in. Hg} \\ T_m & \frac{538.9}{\text{°R}} = \text{absolute meter temperature, °R} \\ V_{mstd} & \frac{174.943}{\text{dscf}} = \text{dscf} \end{aligned}$$

Standard Wet Volume (Vwstd), scf

$$V_{wstd} = 0.04716 \times V_{lc}$$

where,

$$\begin{aligned} V_{lc} & \frac{734.6}{\text{g}} = \text{weight of H}_2\text{O collected, g} \\ V_{wstd} & \frac{34.644}{\text{scf}} = \text{scf} \end{aligned}$$

Moisture Fraction (BWSsat), dimensionless (theoretical at saturated conditions)

$$BWS_{sat} = \frac{10^{6.37 - \left(\frac{2,827}{T_s + 365} \right)}}{P_s}$$

where,

$$\begin{aligned} T_s & \frac{393.5}{\text{°F}} = \text{stack temperature, °F} \\ P_s & \frac{29.87}{\text{in. Hg}} = \text{absolute stack gas pressure, in. Hg} \\ BWS_{sat} & \frac{14.620}{\text{dimensionless}} = \text{dimensionless} \end{aligned}$$

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Run No.: 1
Parameters: PAH/PCB

Moisture Fraction (BWS), dimensionless (measured)

$$BWS = \frac{V_{wstd}}{(V_{wstd} + V_{mstd})}$$

where,

V_{wstd}	<u>34.644</u>	= standard wet volume, scf
V_{mstd}	<u>174.943</u>	= standard meter volume, dscf
BWS	<u>0.165</u>	= dimensionless

Moisture Fraction (BWS), dimensionless

$$BWS = BWS_{msd} \text{ unless } BWS_{sat} < BWS_{msd}$$

where,

BWS_{sat}	<u>14.620</u>	= moisture fraction (theoretical at saturated conditions)
BWS_{msd}	<u>0.165</u>	= moisture fraction (measured)
BWS	<u>0.165</u>	

Excess Air (EA), %

$$EA = \frac{(\% O_2 - [0.5 \times \% CO]) \times 100}{(0.264 \times \% N_2) - \% O_2 - (0.5 \times \% CO)}$$

where,

CO_2	<u>9.97</u>	= carbon dioxide concentration, %
O_2	<u>3.83</u>	= oxygen concentration, %
CO	<u>0.00</u>	= carbon monoxide concentration, % (assumed zero)
N_2	<u>86.2</u>	= nitrogen concentration, %
EA	<u>20.24</u>	= %

Molecular Weight (DRY) (Md), lb/lb-mole

$$Md = (0.44 \times \% CO_2) + (0.32 \times \% O_2) + (0.28 \times [100 - \% CO_2 - \% O_2])$$

where,

CO_2	<u>9.97</u>	= carbon dioxide concentration, %
O_2	<u>3.83</u>	= oxygen concentration, %
Md	<u>29.75</u>	= lb/lb mol

Molecular Weight (WET) (Ms), lb/lb-mole

$$Ms = (Md \times [1 - BWS]) + (18.015 \times BWS)$$

where,

Md	<u>29.75</u>	= molecular weight (DRY), lb/lb mol
BWS	<u>0.165</u>	= moisture fraction, dimensionless
Ms	<u>27.81</u>	= lb/lb mol

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Run No.: 1
Parameters: PAH/PCB

Average Velocity (Vs), ft/sec

$$V_s = 85.49 \times C_p \times (\Delta P^{1/2})_{\text{avg}} \times \sqrt{\frac{T_s}{P_s \times M_s}}$$

where,

C_p	<u>0.800</u>	= pitot tube coefficient
$\Delta P^{1/2}$	<u>0.997</u>	= velocity head of stack gas, (in. H ₂ O) ^{1/2}
T_s	<u>853.1</u>	= absolute stack temperature, °R
P_s	<u>29.87</u>	= absolute stack gas pressure, in. Hg
M_s	<u>27.81</u>	= molecular weight of stack gas, lb/lb mol
V_s	<u>69.1</u>	= ft/sec

Average Stack Gas Flow at Stack Conditions (Qa), acfm

$$Q_a = 60 \times V_s \times A_s$$

where,

V_s	<u>69.1</u>	= stack gas velocity, ft/sec
A_s	<u>11.54</u>	= cross-sectional area of stack, ft ²
Q_a	<u>47,833</u>	= acfm

Average Stack Gas Flow at Standard Conditions (Qs), dscfm

$$Q_s = \frac{17.636 \times Q_a \times (1 - BWS) \times P_s}{T_s}$$

where,

Q_a	<u>47,833</u>	= average stack gas flow at stack conditions, acfm
BWS	<u>0.165</u>	= moisture fraction, dimensionless
P_s	<u>29.87</u>	= absolute stack gas pressure, in. Hg
T_s	<u>853.1</u>	= absolute stack temperature, °R
Q_s	<u>24,655</u>	= dscfm

Dry Gas Meter Calibration Check (Yqa), dimensionless

$$Y_{qa} = \frac{Y - \left(\frac{\Theta}{V_m} \sqrt{\frac{0.0319 \times T_m \times 29}{\Delta H@ \times \left(P_b + \frac{\Delta H_{\text{avg.}}}{13.6} \right) \times M_d}} \sqrt{\Delta H} \text{ avg.} \right)}{Y} \times 100$$

where,

Y	<u>1.018</u>	= meter correction factor, dimensionless
Θ	<u>240</u>	= run time, min.
V_m	<u>175.144</u>	= total meter volume, def
T_m	<u>538.9</u>	= absolute meter temperature, °R
$\Delta H@$	<u>1.847</u>	= orifice meter calibration coefficient, in. H ₂ O
P_b	<u>29.85</u>	= barometric pressure, in. Hg
ΔH_{avg}	<u>1.764</u>	= average pressure differential of orifice, in. H ₂ O
M_d	<u>29.75</u>	= molecular weight (DRY), lb/lb mol
$(\Delta H)^{1/2}$	<u>1.325</u>	= average squareroot pressure differential of orifice, (in. H ₂ O) ^{1/2}
Y_{qa}	<u>1.9</u>	= percent

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Run No.: 1
Parameters: PAH/PCB

Volume of Nozzle (Vn), ft³

$$V_n = \frac{T_s \times \left(0.002669 \times V_{lc} + \frac{V_m \times P_m \times Y}{T_m} \right)}{P_s}$$

where,

T_s 853.1 = absolute stack temperature, °R
 P_s 29.87 = absolute stack gas pressure, in. Hg
 V_{lc} 734.6 = volume of H₂O collected, ml
 V_m 175.144 = meter volume, cf
 P_m 29.98 = absolute meter pressure, in. Hg
 Y 1.018 = meter correction factor, unitless
 T_m 538.9 = absolute meter temperature, °R
 V_n 339.303 = volume of nozzle, ft³

Isokinetic Sampling Rate (I), %

$$I = \left(\frac{V_n}{\theta \times 60 \times A_n \times V_s} \right) \times 100$$

where,

V_n 339.303 = nozzle volume, ft³
 θ 240.0 = run time, minutes
 A_n 0.00034 = area of nozzle, ft²
 V_s 69.1 = average velocity, ft/sec
 I 101.7 = %

Location: **BASF Corporation - McIntosh, AL**
Source: **Boiler No. 7**
Project No.: **AST-2024-2594**
Run No.: **1**
Parameters: **PCB, PAH**

2,4'-DiCB (PCB-8) Concentration (C_8), ng/dscm

$$C_{PCB-8} = \frac{M_{PCB-8} \times 35.3147}{Vmstd}$$

where,

M_{PCB-8}	<u>0.584</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>174.943</u>	= standard meter volume, dscf
C_{PCB-8}	<u>0.118</u>	= 2,4'-DiCB (PCB-8) Concentration, ng/dscm

2,4'-DiCB Concentration (corrected) ($C_{PCB-8c-7}$), ng/dscm @ 7% O_2

$$C_{PCB-8c-7} = \frac{M_{PCB-8} \times 35.3147}{Vmstd} \times \frac{20.9 - 7}{20.9 - O_2}$$

where,

M_{PCB-8}	<u>0.584</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>174.943</u>	= standard meter volume, dscf
O_2	<u>3.83</u>	= measured O_2 Concentration, %d
$C_{PCB-8c-7}$	<u>0.0960</u>	= 2,4'-DiCB Concentration, ng/dscm @ 7% O_2

Naphthalene Concentration ($C_{C_{10}H_8}$), ng/dscm

$$C_{C_{10}H_8} = \frac{M_{C_{10}H_8} \times 35.3147}{Vmstd}$$

where,

$M_{C_{10}H_8}$	<u>874</u>	= Naphthalene mass, ng
$Vmstd$	<u>174.943</u>	= standard meter volume, dscf
$C_{C_{10}H_8}$	<u>176</u>	= Naphthalene Concentration, ng/dscm

Naphthalene Concentration (corrected) ($C_{C_{10}H_8c-7}$), ng/dscm @ 7% O_2

$$C_{C_{10}H_8c-7} = \frac{M_{C_{10}H_8} \times 35.3147}{Vmstd} \times \frac{20.9 - 7}{20.9 - O_2}$$

where,

$M_{C_{10}H_8}$	<u>874</u>	= Naphthalene mass, ng
$Vmstd$	<u>174.943</u>	= standard meter volume, dscf
O_2	<u>3.83</u>	= measured O_2 Concentration, %d
$C_{C_{10}H_8c-7}$	<u>144</u>	= Naphthalene Concentration, ng/dscm @ 7% O_2

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Run No. /Method Run 1 / Method 3A

O₂ - Outlet Concentration (C_{O₂}), % dry

$$C_{O_2} = (C_{obs} - C_0) \times \left(\frac{C_{MA}}{C_M - C_0} \right)$$

where,

C_{obs}	<u>3.94</u>	= average analyzer value during test, % dry
C_0	<u>0.09</u>	= average of pretest & posttest zero responses, % dry
C_{MA}	<u>10.97</u>	= actual concentration of calibration gas, % dry
C_M	<u>11.10</u>	= average of pretest & posttest calibration responses, % dry
C_{O_2}	<u>3.83</u>	= O ₂ Concentration, % dry

CO₂ - Outlet Concentration (C_{CO₂}), % dry

$$C_{CO_2} = (C_{obs} - C_0) \times \left(\frac{C_{MA}}{C_M - C_0} \right)$$

where,

C_{obs}	<u>10.02</u>	= average analyzer value during test, % dry
C_0	<u>0.11</u>	= average of pretest & posttest zero responses, % dry
C_{MA}	<u>10.96</u>	= actual concentration of calibration gas, % dry
C_M	<u>11.01</u>	= average of pretest & posttest calibration responses, % dry
C_{CO_2}	<u>9.97</u>	= CO ₂ Concentration, % dry

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Run No. /Method Run 1 / Method 25A

THC - Outlet Concentration (as C₃H₈) (C_{THC}), ppmvd

$$C_{\text{THC}} = \frac{C_{\text{THCw}}}{1 - \text{BWS}}$$

where,

$$\begin{aligned} C_{\text{THCw}} &= \frac{0.125}{0.165} = \text{THC - Outlet Concentration (as C}_3\text{H}_8\text{), ppmvw} \\ \text{BWS} &= \frac{0.165}{0.150} = \text{moisture fraction, unitless} \\ C_{\text{THC}} &= \frac{0.150}{0.150} = \text{ppmvd} \end{aligned}$$

THC - Outlet Concentration (as C₃H₈) (C_{THCc7}), ppmvd @ 7% O₂

$$C_{\text{THCc7}} = C_{\text{THC}} \times \left(\frac{20.9 - 7}{20.9 - \text{O}_2} \right)$$

where,

$$\begin{aligned} C_{\text{THC}} &= \frac{0.150}{3.83} = \text{THC - Outlet Concentration (as C}_3\text{H}_8\text{), ppmvd} \\ \text{O}_2 &= \frac{3.83}{0.122} = \text{oxygen concentration, \%} \\ C_{\text{THCc7}} &= \frac{0.122}{0.122} = \text{ppmvd @7\% O}_2 \end{aligned}$$

THC - Outlet Emission Rate (as C₃H₈) (ER_{THC}), lb/hr

$$\text{ER}_{\text{THC}} = \frac{C_{\text{THC}} \times \text{MW} \times \text{Qs} \times 60 \frac{\text{min}}{\text{hr}} \times 28.32 \frac{\text{L}}{\text{ft}^3}}{24.04 \frac{\text{L}}{\text{g-mole}} \times 1.0\text{E}06 \times 454 \frac{\text{g}}{\text{lb}}}$$

where,

$$\begin{aligned} C_{\text{THC}} &= \frac{0.150}{44.1} = \text{THC - Outlet Concentration (as C}_3\text{H}_8\text{), ppmvd} \\ \text{MW} &= \frac{44.1}{24,655} = \text{THC molecular weight, g/g-mole} \\ \text{Qs} &= \frac{24,655}{0.0253} = \text{stack gas volumetric flow rate at standard conditions, dscfm} \\ \text{ER}_{\text{THC}} &= \frac{0.0253}{0.0253} = \text{lb/hr} \end{aligned}$$

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Run No. /Method Run 1 / Method 320

HCN - Outlet Concentration (C_{HCN}), ppmvd

$$C_{\text{HCN}} = \frac{C_{\text{HCNw}}}{1 - \text{BWS}}$$

where,

$$\begin{array}{lll} C_{\text{HCNw}} \frac{2.17}{2.17} & = & \text{HCN - Outlet Concentration, ppmvw} \\ \text{BWS} \frac{0.17}{0.17} & = & \text{moisture fraction, unitless} \\ C_{\text{HCN}} \frac{2.60}{2.60} & = & \text{ppmvd} \end{array}$$

HCN - Outlet Concentration (C_{HCNc7}), ppmvd @ 7% O₂

$$C_{\text{HCNc7}} = C_{\text{HCN}} \times \left(\frac{20.9 - 7}{20.9 - \text{O}_2} \right)$$

where,

$$\begin{array}{lll} C_{\text{HCN}} \frac{2.60}{2.60} & = & \text{HCN - Outlet Concentration, ppmvd} \\ \text{O}_2 \frac{3.83}{3.83} & = & \text{oxygen concentration, \%} \\ C_{\text{HCNc7}} \frac{2.12}{2.12} & = & \text{ppmvd @7\% O}_2 \end{array}$$

HCN - Outlet Emission Rate (ER_{HCN}), lb/hr

$$\text{ER}_{\text{HCN}} = \frac{C_{\text{HCN}} \times \text{MW} \times \text{Qs} \times 60 \frac{\text{min}}{\text{hr}} \times 28.32 \frac{\text{L}}{\text{ft}^3}}{24.04 \frac{\text{L}}{\text{g-mole}} \times 1.0\text{E}06 \times 454 \frac{\text{g}}{\text{lb}}}$$

where,

$$\begin{array}{lll} C_{\text{HCN}} \frac{2.60}{2.60} & = & \text{HCN - Outlet Concentration, ppmvd} \\ \text{MW} \frac{27.0253}{27.0253} & = & \text{HCN molecular weight, g/g-mole} \\ \text{Qs} \frac{24,655}{24,655} & = & \text{stack gas volumetric flow rate at standard conditions, dscfm} \\ \text{ER}_{\text{HCN}} \frac{0.270}{0.270} & = & \text{lb/hr} \end{array}$$

Location BASF Corporation - McIntosh, AL
Source Boiler No. 7
Project No. AST-2024-2594
Dates 6/10/24-6/14/24

CTS Recovery Value (CTS_R), %

$$\frac{CTS_{avg}}{CTS_{cyl}} \times 100$$

Where,

CTS_{avg} 99.23 = average of all CTS calibration gas readings, ppm
 CTS_{cyl} 102 = CTS bottle certified gas value, ppm
 CTS_R 97.28% = CTS recovery value, %

Spike Dilution Factor (DF), %

$$\frac{SF6_{spike} - SF6_{nat}}{SF6_{dir}} \times 100$$

Where,

SF6_{dir} 9.634 = average of direct tracer gas value readings
 SF6_{nat} 0.010 = average of native tracer gas value readings
 SF6_{spike} 0.449 = average of dynamic spike tracer gas value readings
 DF 4.6% = spike dilution factor, %

Calculated Spike (Spike_{calc}), ppm

Could'n

$$(DF \times Analyte_{dir}) + (Analyte_{nat} \times (1 - DF))$$

Where,

%DF 4.6% = spike dilution factor, %
 Analyte_{dir} 85.77 = average of direct analyte gas values, ppm
 Analyte_{nat} 2.05 = average of native analyte gas values, ppm
 Spike_{calc} 5.86 = calculated spike, ppm value, ppm

Spike Recovery Value (Spike_R), %

$$\frac{Analyte_{spike}}{Spike_{calc}} \times 100$$

Where,

Spike_{calc} 5.86 = calculated spike, ppm value, ppm
 Analyte_{spike} 5.94 = average of spiked analyte gas values, ppm
 Spike_R 101.37% = spike recovery value, %

Appendix B

Emission Calculations

Location BASF Corporation - McIntosh, AL
Source Boiler No. 7
Project No. AST-2024-2594

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:30	18:21	12:51	17:43	12:14	17:29	12:19	--
Input Data - Outlet									
Moisture Fraction, dimensionless	BWS	0.165	0.161	0.176	0.175	0.179	0.175	0.179	0.173
Volumetric Flow Rate (M1-4), dscfm	Qs	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209
Calculated Data - Outlet									
O ₂ Concentration, % dry	C _{O₂}	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.85
CO ₂ Concentration, % dry	C _{CO₂}	9.97	9.96	9.95	9.92	9.87	9.98	10.15	9.97
THC (as C ₃ H ₈) Concentration, ppmvd	C _{THC}	0.150	0.193	0.0107	0.0390	0.0305	0.0488	0.00231	0.0676
THC (as C ₃ H ₈) Concentration, ppmvw	C _{THCw}	0.125	0.162	0.00883	0.0322	0.0250	0.0402	0.00190	0.0564
THC (as C ₃ H ₈) Concentration, ppmvd @ 7 % O ₂	C _{THC7}	0.122	0.157	0.00870	0.0317	0.0250	0.0398	0.00188	0.0551
THC (as C ₃ H ₈) Emission Rate, lb/hr	ER _{THC}	0.0253	0.0323	0.00180	0.00639	0.00503	0.00801	0.000385	0.0113
FTIR Calculated Data									
HCN - Outlet Concentration, ppmvd	C _{HCN}	2.60	2.72	2.39	2.60	2.31	2.40	2.29	2.50
HCN - Outlet Concentration, ppmvw	C _{HCNw}	2.17	2.28	1.97	2.15	1.89	1.98	1.88	2.07
HCN - Outlet Concentration, ppmvd @ 7 % O ₂	C _{HCN7}	2.12	2.21	1.94	2.11	1.90	1.96	1.87	2.04
HCN - Outlet Emission Rate, lb/hr	ER _{HCN}	0.270	0.279	0.246	0.261	0.234	0.241	0.234	0.255

Location **BASF Corporation - McIntosh, AL**
Source **Boiler No. 7**
Project No. **AST-2024-2594**
Parameter: **PAH**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	174,943	168,610	175,946	169,721	171,525	164,661	174,951	172,305
O ₂ Concentration, % dry	(O ₂)	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.80
Emissions Calculations									
Naphthalene Concentration, ng/dscm	C ₁₁₀₀₀	176	87.3	151	187	158	113	135	144
Naphthalene Concentration, ng/dscm @ 7% O ₂	C ₁₁₀₀₀ ^e	144	71.1	123	152	130	92.6	110	117
2-Methylnaphthalene Concentration, ng/dscm	C ₁₁₁₀₀	88.4	32.0	54.4	82.8	51.1	32.2	38.6	54.2
2-Methylnaphthalene Concentration, ng/dscm @ 7% O ₂	C ₁₁₁₀₀ ^e	72.0	26.1	44.2	67.2	42.0	26.3	31.4	44.2
Acenaphthylene Concentration, ng/dscm	C ₁₂₀₀	8.09	0.484	1.87	2.02	4.41	2.32	2.77	3.14
Acenaphthylene Concentration, ng/dscm @ 7% O ₂	C ₁₂₀₀ ^e	6.59	0.394	1.52	1.64	3.62	1.89	2.25	2.56
Acenaphthene Concentration, ng/dscm	C ₁₂₁₀₀	24.0	3.58	11.2	15.9	14.2	7.68	8.66	12.2
Acenaphthene Concentration, ng/dscm @ 7% O ₂	C ₁₂₁₀₀ ^e	19.6	2.91	9.08	12.9	11.7	6.27	7.06	9.92
Fluorene Concentration, ng/dscm	C ₁₃₁₀₀	52.7	4.02	21.9	26.6	42.0	16.3	20.8	26.3
Fluorene Concentration, ng/dscm @ 7% O ₂	C ₁₃₁₀₀ ^e	42.9	3.27	17.8	21.6	34.5	13.3	16.9	21.5
Phenanthrene Concentration, ng/dscm	C ₁₄₁₀₀	179	16.1	67.0	68.9	139	60.3	83.0	87.6
Phenanthrene Concentration, ng/dscm @ 7% O ₂	C ₁₄₁₀₀ ^e	146	13.1	54.4	55.9	114	49.2	67.6	71.5
Anthracene Concentration, ng/dscm	C ₁₄₁₀₀	21.0	0.733	7.25	6.80	16.1	6.26	8.66	9.55
Anthracene Concentration, ng/dscm @ 7% O ₂	C ₁₄₁₀₀ ^e	17.1	0.597	5.88	5.52	13.3	5.11	7.06	7.79
Fluoranthene Concentration, ng/dscm	C ₁₄₁₀₀	25.2	12.0	9.94	16.6	18.0	8.81	13.2	14.8
Fluoranthene Concentration, ng/dscm @ 7% O ₂	C ₁₄₁₀₀ ^e	20.5	9.75	8.07	13.5	14.8	7.19	10.8	12.1
Pyrene Concentration, ng/dscm	C ₁₄₁₀₀	26.6	20.4	11.3	23.7	18.9	10.7	14.7	18.1
Pyrene Concentration, ng/dscm @ 7% O ₂	C ₁₄₁₀₀ ^e	21.7	16.6	9.19	19.2	15.6	8.75	12.0	14.7
Benzo[a]anthracene Concentration, ng/dscm	C ₁₁₀₁₂	0.795	1.63	0.652	1.23	1.41	0.688	0.951	1.05
Benzo[a]anthracene Concentration, ng/dscm @ 7% O ₂	C ₁₁₀₁₂ ^e	0.648	1.32	0.530	0.994	1.16	0.562	0.775	0.856
Chrysene Concentration, ng/dscm	C ₁₁₀₁₂	4.46	4.42	3.63	4.14	3.62	2.23	2.75	3.61
Chrysene Concentration, ng/dscm @ 7% O ₂	C ₁₁₀₁₂ ^e	3.63	3.60	2.95	3.36	2.98	1.82	2.24	2.94
Benzo[b]fluoranthene Concentration, ng/dscm	C ₂₀₀₁₂	3.27	3.92	3.55	4.91	1.50	1.10	1.17	2.77
Benzo[b]fluoranthene Concentration, ng/dscm @ 7% O ₂	C ₂₀₀₁₂ ^e	2.66	3.19	2.88	3.98	1.23	0.902	0.953	2.26
Benzo[k]fluoranthene Concentration, ng/dscm	C ₂₀₀₁₂	1.17	1.15	1.05	2.01	0.926	0.549	0.656	1.07
Benzo[k]fluoranthene Concentration, ng/dscm @ 7% O ₂	C ₂₀₀₁₂ ^e	0.952	0.932	0.856	1.63	0.762	0.448	0.535	0.874
Benzo[e]pyrene Concentration, ng/dscm	C ₂₀₀₁₂	42.6	14.4	4.58	19.5	3.50	3.45	2.60	12.9
Benzo[e]pyrene Concentration, ng/dscm @ 7% O ₂	C ₂₀₀₁₂ ^e	34.7	11.7	3.72	15.8	2.88	2.82	2.12	10.5
Benzo[a]pyrene Concentration, ng/dscm	C ₂₀₀₁₂	1.95	1.18	1.69	2.33	0.879	0.781	0.769	1.37
Benzo[a]pyrene Concentration, ng/dscm @ 7% O ₂	C ₂₀₀₁₂ ^e	1.59	0.961	1.37	1.89	0.723	0.637	0.627	1.11
Perylene Concentration, ng/dscm	C ₂₀₀₁₂	0.971	0.268	0.803	8.74	0.362	0.242	0.432	1.69
Perylene Concentration, ng/dscm @ 7% O ₂	C ₂₀₀₁₂ ^e	0.791	0.218	0.652	7.09	0.298	0.198	0.352	1.37
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm	C ₂₂₀₁₂	2.04	3.06	2.01	8.36	1.60	2.01	1.31	2.91
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm @ 7% O ₂	C ₂₂₀₁₂ ^e	1.66	2.49	1.63	6.79	1.32	1.64	1.06	2.37
Dibenz(a,h)anthracene Concentration, ng/dscm	C ₂₂₀₁₄	0.836	1.13	2.05	2.08	1.53	1.24	1.19	1.44
Dibenz(a,h)anthracene Concentration, ng/dscm @ 7% O ₂	C ₂₂₀₁₄ ^e	0.681	0.919	1.66	1.69	1.26	1.01	0.968	1.17
Benzo[g,h,i]perylene Concentration, ng/dscm	C ₂₂₀₁₂	4.20	14.1	4.26	26.4	5.99	11.0	4.10	10.0
Benzo[g,h,i]perylene Concentration, ng/dscm @ 7% O ₂	C ₂₂₀₁₂ ^e	3.42	11.5	3.45	21.4	4.92	9.02	3.34	8.15
Summation									
Total PAH Concentrations, ng/dscm	C _{PAH}	685	223	368	517	499	288	350	418
Total PAH Concentrations, ng/dscm @ 7% O ₂	C _{PAH} ^e	558	181	299	419	410	235	285	341

Emission Calculations

Location **BASF Corporation - McIntosh, AL**
Source **Boiler No. 7**
Project No. **AST-2024-2594**
Parameter: **PAH**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	174,943	168,610	175,946	169,721	171,525	164,661	174,951	171,479
Volumetric Flow Rate, dscfm	(Qs)	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209
O2 Concentration, % dry	(O ₂)	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
Emissions Calculations									
Naphthalene Emission Rate, lb/hr	ER _{C10H8}	1.63E-05	7.99E-06	1.38E-05	1.67E-05	1.43E-05	1.02E-05	1.22E-05	1.31E-05
2-Methylnaphthalene Emission Rate, lb/hr	ER _{C11H10}	8.17E-06	2.93E-06	4.97E-06	7.39E-06	4.60E-06	2.88E-06	3.50E-06	4.92E-06
Acenaphthylene Emission Rate, lb/hr	ER _{C12H8}	7.48E-07	4.42E-08	1.70E-07	1.80E-07	3.97E-07	2.07E-07	2.51E-07	2.85E-07
Acenaphthene Emission Rate, lb/hr	ER _{C12H10}	2.22E-06	3.28E-07	1.02E-06	1.41E-06	1.28E-06	6.87E-07	7.86E-07	1.11E-06
Fluorene Emission Rate, lb/hr	ER _{C13H10}	4.87E-06	3.68E-07	2.00E-06	2.38E-06	3.79E-06	1.46E-06	1.89E-06	2.39E-06
Phenanthrene Emission Rate, lb/hr	ER _{C14H10}	1.65E-05	1.47E-06	6.12E-06	6.15E-06	1.25E-05	5.39E-06	7.53E-06	7.96E-06
Anthracene Emission Rate, lb/hr	ER _{C14H10}	1.94E-06	6.70E-08	6.62E-07	6.07E-07	1.45E-06	5.60E-07	7.86E-07	8.68E-07
Fluoranthene Emission Rate, lb/hr	ER _{C14H10}	2.33E-06	1.10E-06	9.07E-07	1.48E-06	1.63E-06	7.89E-07	1.20E-06	1.35E-06
Pyrene Emission Rate, lb/hr	ER _{C14H10}	2.46E-06	1.86E-06	1.03E-06	2.12E-06	1.71E-06	9.60E-07	1.33E-06	1.64E-06
Benzo[a]anthracene Emission Rate, lb/hr	ER _{C15H12}	7.35E-08	1.49E-07	5.96E-08	1.09E-07	1.27E-07	6.16E-08	8.63E-08	9.52E-08
Chrysene Emission Rate, lb/hr	ER _{C15H12}	4.12E-07	4.04E-07	3.32E-07	3.70E-07	3.27E-07	2.00E-07	2.49E-07	3.28E-07
Benzo[b]fluoranthene Emission Rate, lb/hr	ER _{C20H12}	3.02E-07	3.58E-07	3.24E-07	4.38E-07	1.35E-07	9.89E-08	1.06E-07	2.52E-07
Benzo[k]fluoranthene Emission Rate, lb/hr	ER _{C20H12}	1.08E-07	1.05E-07	9.62E-08	1.80E-07	8.35E-08	4.91E-08	5.96E-08	9.72E-08
Benzo[e]pyrene Emission Rate, lb/hr	ER _{C20H12}	3.93E-06	1.32E-06	4.18E-07	1.74E-06	3.15E-07	3.09E-07	2.36E-07	1.18E-06
Benzo[a]pyrene Emission Rate, lb/hr	ER _{C20H12}	1.80E-07	1.08E-07	1.54E-07	2.08E-07	7.92E-08	6.99E-08	6.98E-08	1.24E-07
Perylene Emission Rate, lb/hr	ER _{C20H12}	8.97E-08	2.45E-08	7.33E-08	7.80E-07	3.27E-08	2.17E-08	3.92E-08	1.52E-07
Indeno[1,2,3-cd]pyrene Emission Rate, lb/hr	ER _{C23H12}	1.88E-07	2.80E-07	1.83E-07	7.46E-07	1.45E-07	1.80E-07	1.19E-07	2.63E-07
Dibenz[a,h]anthracene Emission Rate, lb/hr	ER _{C22H14}	7.72E-08	1.03E-07	1.87E-07	1.86E-07	1.38E-07	1.11E-07	1.08E-07	1.30E-07
Benzo[g,h,i]perylene Emission Rate, lb/hr	ER _{C23H12}	3.88E-07	1.29E-06	3.89E-07	2.36E-06	5.40E-07	9.89E-07	3.72E-07	9.03E-07
Summation									
Total PAHs, lb/hr	ER _{PAH}	6.13E-05	2.03E-05	3.29E-05	4.55E-05	4.35E-05	2.52E-05	3.09E-05	3.71E-05

Location BASF Corporation - McIntosh, AL

Source Boiler No. 7

Project No. AST-2024-2594

Parameter: PAH

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
Naphthalene Mass, ng	874	417	754	899	768	529	667
2-Methylnaphthalene Mass, ng	438	153	271	398	248	150	191
Acenaphthylene Mass, ng	40.1	2.31	9.30	9.70	21.4	10.8	13.7
Acenaphthene Mass, ng	119	17.1	55.7	76.2	69.1	35.8	42.9
Fluorene Mass, ng	261	19.2	109	128	204	76.1	103
Phenanthrene Mass, ng	887	76.7	334	331	675	281	411
Anthracene Mass, ng	104	3.50	36.1	32.7	78.3	29.2	42.9
Fluoranthene Mass, ng	125	57.2	49.5	79.8	87.6	41.1	65.4
Pyrene Mass, ng	132	97.2	56.4	114	92.0	50.0	72.8
Benzo[a]anthracene Mass, ng	3.94	7.76	3.25	5.89	6.85	3.21	4.71
Chrysene Mass, ng	22.1	21.1	18.1	19.9	17.6	10.4	13.6
Benzo[b]fluoranthene Mass, ng	16.2	18.7	17.7	23.6	7.28	5.15	5.79
Benzo[k]fluoranthene Mass, ng	5.79	5.47	5.25	9.67	4.50	2.56	3.25
Benzo[e]pyrene Mass, ng	211	68.9	22.8	93.6	17.0	16.1	12.9
Benzo[a]pyrene Mass, ng	9.68	5.64	8.42	11.2	4.27	3.64	3.81
Perylene Mass, ng	4.81	1.28	4.00	42.0	1.76	1.13	2.14
Indeno[1,2,3-cd]pyrene Mass, ng	10.1	14.6	10.0	40.2	7.79	9.37	6.47
Dibenz[a,h]anthracene Mass, ng	4.14	5.39	10.2	10.0	7.43	5.77	5.88
Benzo[g,h,i]perylene Mass, ng	20.8	67.2	21.2	127	29.1	51.5	20.3

See analytical report for flag descriptors.

Location **BASF Corporation - McIntosh, AL**
Source **Boiler No. 7**
Project No. **AST-2024-2594**
Parameter: **PCB**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	174.943	168.610	175.946	169.721	171.525	164.661	174.951	172.305
O ₂ Concentration, % dry	(O ₂)	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.80
Emissions Calculations									
2,4'-DiCB (PCB-8) Concentration, ng/dscm	C ₈	0.118	0.0566	0.0373	0.0755	0.0980	0.0545	0.0749	0.0735
2,4'-DiCB (PCB-8) Concentration, ng/dscm @ 7% O ₂	C _{8C}	0.0960	0.0460	0.0303	0.0613	0.0806	0.0445	0.0611	0.0600
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm	C ₁₈	0.0575	0.0595	0.0311	0.0545	0.0943	0.0575	0.0747	0.0613
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm @ 7% O ₂	C _{18C}	0.0468	0.0484	0.0253	0.0442	0.0775	0.0469	0.0609	0.0500
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm	C ₂₈	0.559	0.0377	0.139	0.117	0.212	0.157	0.173	0.199
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm @ 7% O ₂	C _{28C}	0.455	0.0307	0.113	0.0946	0.174	0.128	0.141	0.162
2,2',3,5'-TeCB (PCB-44) Concentration, ng/dscm	C ₄₄	0.939	0.0723	0.359	0.337	0.745	0.388	0.488	0.476
2,2',3,5'-TeCB (PCB-44) Concentration, ng/dscm @ 7% O ₂	C _{44C}	0.764	0.0588	0.292	0.274	0.613	0.317	0.398	0.388
2,2',5,5'-TeCB (PCB-52) Concentration, ng/dscm	C ₅₂	0.268	0.0415	0.100	0.0818	0.174	0.112	0.145	0.132
2,2',5,5'-TeCB (PCB-52) Concentration, ng/dscm @ 7% O ₂	C _{52C}	0.219	0.0337	0.0815	0.0664	0.143	0.0916	0.118	0.108
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm	C ₆₆	0.287	0.0189	0.0765	0.0491	0.0754	0.0785	0.0700	0.0936
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm @ 7% O ₂	C _{66C}	0.233	0.0154	0.0621	0.0398	0.0619	0.0641	0.0571	0.0763
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm	C ₇₇	0.0293	0.0205	0.0122	0.0165	0.0259	0.0139	0.00805	0.0181
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm @ 7% O ₂	C _{77C}	0.0238	0.0167	0.00994	0.0134	0.0213	0.0114	0.00657	0.0147
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm	C ₈₁	0.0194	0.0201	0.0193	0.0200	0.0198	0.0206	0.0194	0.0198
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm @ 7% O ₂	C _{81C}	0.0158	0.0164	0.0156	0.0162	0.0162	0.0168	0.0158	0.0161
2,2',4,5,5'-PeCB (PCB-101) Concentration, ng/dscm	C ₁₀₁	0.0614	0.0373	0.0263	0.0391	0.0469	0.0242	0.0438	0.0399
2,2',4,5,5'-PeCB (PCB-101) Concentration, ng/dscm @ 7% O ₂	C _{101C}	0.0500	0.0303	0.0213	0.0317	0.0386	0.0198	0.0357	0.0325
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm	C ₁₀₅	0.0156	0.0125	0.0103	0.0175	0.0175	0.0092	0.0117	0.0135
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm @ 7% O ₂	C _{105C}	0.0127	0.0101	0.00839	0.0142	0.0144	0.00747	0.00953	0.0110
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm	C ₁₁₄	0.0333	0.0346	0.0331	0.0343	0.0340	0.0354	0.0333	0.0340
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm @ 7% O ₂	C _{114C}	0.0271	0.0281	0.0269	0.0279	0.0279	0.0289	0.0272	0.0277
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm	C ₁₁₈	0.0321	0.0325	0.0233	0.0337	0.0344	0.0195	0.0291	0.0292
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm @ 7% O ₂	C _{118C}	0.0261	0.0264	0.0189	0.0274	0.0283	0.0159	0.0237	0.0238
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm	C ₁₂₃	0.0345	0.0358	0.0343	0.0356	0.0352	0.0367	0.0345	0.0352
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm @ 7% O ₂	C _{123C}	0.0281	0.0291	0.0279	0.0289	0.0289	0.0299	0.0281	0.0287
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm	C ₁₂₆	0.0248	0.0258	0.0247	0.0256	0.0253	0.0264	0.0248	0.0253
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm @ 7% O ₂	C _{126C}	0.0202	0.0210	0.0200	0.0208	0.0208	0.0215	0.0202	0.0207
2,2',3,3',4,4'-HxCB (PCB-128) Concentration, ng/dscm	C ₁₂₈	0.0412	0.0158	0.00771	0.0120	0.00834	0.00115	0.00533	0.0131
2,2',3,3',4,4'-HxCB (PCB-128) Concentration, ng/dscm @ 7% O ₂	C _{128C}	0.0335	0.0128	0.00626	0.00973	0.00685	0.000938	0.00434	0.0106
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm	C ₁₃₈	0.0367	0.0875	0.0235	0.0728	0.0535	0.0114	0.0345	0.0457
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm @ 7% O ₂	C _{138C}	0.0299	0.0712	0.0191	0.0591	0.0440	0.00931	0.0281	0.0373
2,2',4,4',5,5'-HxCB (PCB-153) Concentration, ng/dscm	C ₁₅₃	0.0220	0.0511	0.0321	0.0458	0.0315	0.0108	0.0178	0.0302
2,2',4,4',5,5'-HxCB (PCB-153) Concentration, ng/dscm @ 7% O ₂	C _{153C}	0.0179	0.0416	0.0261	0.0371	0.0259	0.00882	0.0145	0.0246
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm	C ₁₅₆	0.00361	0.00377	0.00117	0.00649	0.00498	0.0547	0.00295	0.01110
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm @ 7% O ₂	C _{156C}	0.00294	0.00307	0.000953	0.00527	0.00410	0.0446	0.00240	0.00905
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm	C ₁₅₇	0.00361	0.00377	0.00117	0.00649	0.00498	0.0547	0.00295	0.01110
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm @ 7% O ₂	C _{157C}	0.00294	0.00307	0.000953	0.00527	0.00410	0.0446	0.00240	0.00905
2,3',4,4',5,5'-HxCB (PCB-167) Concentration, ng/dscm	C ₁₆₇	0.00208	0.0377	0.0361	0.0375	0.0371	0.0386	0.0363	0.0322
2,3',4,4',5,5'-HxCB (PCB-167) Concentration, ng/dscm @ 7% O ₂	C _{167C}	0.00169	0.0307	0.0293	0.0304	0.0305	0.0315	0.0296	0.0262
3,3',4,4',5,5'-HxCB (PCB-169) Concentration, ng/dscm	C ₁₆₉	0.000610	0.00134	0.0247	0.0256	0.0253	0.0264	0.0248	0.0184
3,3',4,4',5,5'-HxCB (PCB-169) Concentration, ng/dscm @ 7% O ₂	C _{169C}	0.000496	0.00109	0.0200	0.0208	0.0208	0.0215	0.0202	0.0150
2,2',3,3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm	C ₁₇₀	0.00182	0.00488	0.00102	0.00264	0.00239	0.00423	0.00260	0.00280
2,2',3,3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm @ 7% O ₂	C _{170C}	0.00148	0.00397	0.000829	0.00214	0.00196	0.00345	0.00212	0.00228
2,2',3,4,4',5,5'-HpCB (PCB-180) Concentration, ng/dscm	C ₁₈₀	0.00610	0.00616	0.0375	0.00782	0.00673	0.00320	0.00478	0.0103
2,2',3,4,4',5,5'-HpCB (PCB-180) Concentration, ng/dscm @ 7% O ₂	C _{180C}	0.00496	0.00501	0.0305	0.00635	0.00553	0.00261	0.00390	0.00841
2,2',3,4',5,5',6'-HpCB (PCB-187) Concentration, ng/dscm	C ₁₈₇	0.00194	0.00511	0.0494	0.00512	0.00410	0.00177	0.00246	0.00998
2,2',3,4',5,5',6'-HpCB (PCB-187) Concentration, ng/dscm @ 7% O ₂	C _{187C}	0.00158	0.00416	0.0401	0.00415	0.00337	0.00145	0.00201	0.00811
2,3,3',4,4',5,5'-HpCB (PCB-189) Concentration, ng/dscm	C ₁₈₉	0.0297	0.0308	0.0295	0.0306	0.0303	0.0315	0.0297	0.0303
2,3,3',4,4',5,5'-HpCB (PCB-189) Concentration, ng/dscm @ 7% O ₂	C _{189C}	0.0242	0.0251	0.0240	0.0248	0.0249	0.0257	0.0242	0.0247
2,2',3,3',4,4',5,6'-OeCB (PCB-195) Concentration, ng/dscm	C ₁₉₅	0.0321	0.0333	0.0044	0.0331	0.0327	0.0341	0.0321	0.0288
2,2',3,3',4,4',5,6'-OeCB (PCB-195) Concentration, ng/dscm @ 7% O ₂	C _{195C}	0.0261	0.0271	0.00360	0.0268	0.0269	0.0278	0.0262	0.0235
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206) Concentration, ng/dscm	C ₂₀₆	0.0345	0.0358	0.0343	0.0356	0.0352	0.0367	0.0345	0.0352
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206) Concentration, ng/dscm @ 7% O ₂	C _{206C}	0.0281	0.0291	0.0279	0.0289	0.0289	0.0299	0.0281	0.0287
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Concentration, ng/dscm	C ₂₀₉	0.00610	0.00484	0.0277	0.00356	0.0284	0.00219	0.00351	0.0109
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Concentration, ng/dscm @ 7% O ₂	C _{209C}	0.00496	0.00394	0.0225	0.00289	0.0234	0.00179	0.00286	0.00890
Summation									
Total PCB Concentrations, ng/dscm	C _{PCB}	2.70	0.827	1.24	1.26	1.94	1.34	1.46	1.54
Total PCB Concentrations, ng/dscm @ 7% O ₂	C _{PCB7C}	2.20	0.673	1.00	1.02	1.60	1.10	1.19	1.26

Location **BASF Corporation - McIntosh, AL**
Source **Boiler No. 7**
Project No. **AST-2024-2594**
Parameter: **PCB**

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Input Data									
Standard Meter Volume, ft ³	(Vmstd)	174,943	168,610	175,946	169,721	171,525	164,661	174,951	171,479
Volumetric Flow Rate, dscfm	(Q ₉)	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209
O ₂ Concentration, % dry	(O ₂)	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
Emissions Calculations									
2,4'-DiCB (PCB-8) Emission Rate, lb/hr	ER ₈	1.09E-08	5.17E-09	3.41E-09	6.74E-09	8.83E-09	4.88E-09	6.80E-09	6.67E-09
2,2',5'-TrCB (PCB-18) Emission Rate, lb/hr	ER ₁₈	5.31E-09	5.44E-09	2.84E-09	4.87E-09	8.50E-09	5.14E-09	6.78E-09	5.55E-09
2,4,4'-TrCB (PCB-28) Emission Rate, lb/hr	ER ₂₈	5.16E-08	3.45E-09	1.27E-08	1.04E-08	1.91E-08	1.40E-08	1.57E-08	1.81E-08
2,2',3,5'-TeCB (PCB-44) Emission Rate, lb/hr	ER ₄₄	8.67E-08	6.61E-09	3.28E-08	3.01E-08	6.72E-08	3.47E-08	4.44E-08	4.32E-08
2,2',5,5'-TeCB (PCB-52) Emission Rate, lb/hr	ER ₅₂	2.48E-08	3.79E-09	9.17E-09	7.30E-09	1.57E-08	1.00E-08	1.32E-08	1.20E-08
2,3',4,4'-TeCB (PCB-66) Emission Rate, lb/hr	ER ₆₆	2.65E-08	1.73E-09	6.98E-09	4.38E-09	6.79E-09	7.03E-09	6.36E-09	8.53E-09
3,3',4,4'-TeCB (PCB-77) Emission Rate, lb/hr	ER ₇₇	2.70E-09	1.88E-09	1.12E-09	1.47E-09	2.34E-09	1.25E-09	7.31E-10	1.64E-09
3,4,4',5'-TeCB (PCB-81) Emission Rate, lb/hr	ER ₈₁	1.79E-09	1.84E-09	1.76E-09	1.78E-09	1.78E-09	1.84E-09	1.76E-09	1.79E-09
2,2',4,5,5'-PeCB (PCB-101) Emission Rate, lb/hr	ER ₁₀₁	5.67E-09	3.41E-09	2.40E-09	3.49E-09	4.23E-09	2.17E-09	3.98E-09	3.62E-09
2,3,3',4,4'-PeCB (PCB-105) Emission Rate, lb/hr	ER ₁₀₅	1.44E-09	1.14E-09	9.44E-10	1.56E-09	1.58E-09	8.20E-10	1.06E-09	1.22E-09
2,3,4,4',5'-PeCB (PCB-114) Emission Rate, lb/hr	ER ₁₁₄	3.08E-09	3.16E-09	3.02E-09	3.06E-09	3.06E-09	3.17E-09	3.02E-09	3.08E-09
2,3',4,4',5'-PeCB (PCB-118) Emission Rate, lb/hr	ER ₁₁₈	2.96E-09	2.97E-09	2.13E-09	3.01E-09	3.10E-09	1.74E-09	2.64E-09	2.65E-09
2',3,4,4',5'-PeCB (PCB-123) Emission Rate, lb/hr	ER ₁₂₃	3.19E-09	3.28E-09	3.13E-09	3.18E-09	3.17E-09	3.28E-09	3.13E-09	3.19E-09
3,3',4,4',5'-PeCB (PCB-126) Emission Rate, lb/hr	ER ₁₂₆	2.29E-09	2.36E-09	2.25E-09	2.28E-09	2.28E-09	2.36E-09	2.25E-09	2.30E-09
2,2',3,3',4,4'-HxCB (PCB-128) Emission Rate, lb/hr	ER ₁₂₈	3.80E-09	1.44E-09	7.04E-10	1.07E-09	7.51E-10	1.03E-10	4.84E-10	1.19E-09
2,2',3,4,4',5'-HxCB (PCB-138) Emission Rate, lb/hr	ER ₁₃₈	3.39E-09	8.01E-09	2.14E-09	6.50E-09	4.82E-09	1.02E-09	3.13E-09	4.15E-09
2,2',4,4',5,5'-HxCB (PCB-153) Emission Rate, lb/hr	ER ₁₅₃	2.03E-09	4.67E-09	2.93E-09	4.09E-09	2.84E-09	9.67E-10	1.62E-09	2.74E-09
2,3,3',4,4',5'-HxCB (PCB-156) Emission Rate, lb/hr	ER ₁₅₆	3.34E-10	3.45E-10	1.07E-10	5.79E-10	4.49E-10	4.89E-09	2.68E-10	9.97E-10
2,3,3',4,4',5'-HxCB (PCB-157) Emission Rate, lb/hr	ER ₁₅₇	3.34E-10	3.45E-10	1.07E-10	5.79E-10	4.49E-10	4.89E-09	2.68E-10	9.97E-10
2,3',4,4',5,5'-HxCB (PCB-167) Emission Rate, lb/hr	ER ₁₆₇	1.92E-10	3.45E-09	3.30E-09	3.34E-09	3.34E-09	3.45E-09	3.30E-09	2.91E-09
3,3',4,4',5,5'-HxCB (PCB-169) Emission Rate, lb/hr	ER ₁₆₉	5.63E-11	1.22E-10	2.25E-09	2.28E-09	2.28E-09	2.36E-09	2.25E-09	1.66E-09
2,2',3,3',4,4',5'-HpCB (PCB-170) Emission Rate, lb/hr	ER ₁₇₀	1.68E-10	4.46E-10	9.33E-11	2.36E-10	2.15E-10	3.78E-10	2.36E-10	2.53E-10
2,2',3,4,4',5,5'-HpCB (PCB-180) Emission Rate, lb/hr	ER ₁₈₀	5.63E-10	5.63E-10	3.43E-09	6.98E-10	6.07E-10	2.86E-10	4.34E-10	9.40E-10
2,2',3,4',5,5',6'-HpCB (PCB-187) Emission Rate, lb/hr	ER ₁₈₇	1.79E-10	4.67E-10	4.51E-09	4.57E-10	3.69E-10	1.59E-10	2.24E-10	9.09E-10
2,3,3',4,4',5,5'-HpCB (PCB-189) Emission Rate, lb/hr	ER ₁₈₉	2.74E-09	2.82E-09	2.69E-09	2.73E-09	2.73E-09	2.82E-09	2.69E-09	2.75E-09
2,2',3,3',4,4',5,6-OcCB (PCB-195) Emission Rate, lb/hr	ER ₁₉₅	2.96E-09	3.05E-09	4.05E-10	2.95E-09	2.95E-09	3.05E-09	2.91E-09	2.61E-09
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206) Emission Rate, lb/hr	ER ₂₀₆	3.19E-09	3.28E-09	3.13E-09	3.18E-09	3.17E-09	3.28E-09	3.13E-09	3.19E-09
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Emission Rate, lb/hr	ER ₂₀₉	5.63E-10	4.42E-10	2.53E-09	3.18E-10	2.56E-09	1.96E-10	3.19E-10	9.90E-10
Summation									
Total PCB Emission Rate, lb/hr	ER _{PCB}	2.49E-07	7.56E-08	1.13E-07	1.13E-07	1.75E-07	1.20E-07	1.33E-07	1.40E-07

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

Location BASF Corporation - McIntosh, AL

Source Boiler No. 7

Project No. AST-2024-2594

Parameter: PCB

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
2,4'-DiCB (PCB-8) Mass, ng	M ₆	0.270	J	J	0.476	J	J
2,2',5'-TrCB (PCB-18) Mass, ng	M ₁₈	0.284	J C	J C S	0.458	J C	J C S
2,4,4'-TrCB (PCB-28) Mass, ng	M ₂₈	0.180	J C20 B	J B C20	1.03	B C20	B C20
2,2',3',5'-TeCB (PCB-44) Mass, ng	M ₄₄	0.345	J C B	C B	3.62	C B	C B
2,2',5',5'-TeCB (PCB-52) Mass, ng	M ₅₂	0.198	J q	0.393	0.845	0.523	0.718
2,3',4,4'-TeCB (PCB-66) Mass, ng	M ₆₆	0.0901	J	0.381	0.366	0.366	0.347
3,3',4,4'-TeCB (PCB-77) Mass, ng	M ₇₇	1.42	J	0.0793	0.126	J q	J q
3,4,4',5'-TeCB (PCB-81) Mass, ng	M ₈₁	0.0979	J q	0.0793	0.0960	0.0649	0.0399
2,2',4,5',5'-PeCB (PCB-101) Mass, ng	M ₁₀₁	0.178	ND	ND	ND	ND	ND
2,2',4,5',5'-PeCB (PCB-105) Mass, ng	M ₁₀₅	0.0595	J q C90	J C90	J C90	J C90 q	J C90
2,3,3',4,4'-PeCB (PCB-114) Mass, ng	M ₁₁₄	0.0771	J q	J q	0.0851	J	J q
2,3,3',4,4'-PeCB (PCB-118) Mass, ng	M ₁₁₈	0.165	ND	0.165	0.165	ND	ND
2,3,3',4,4'-PeCB (PCB-123) Mass, ng	M ₁₂₃	0.155	J	0.162	0.167	J	J
2,3,3',4,4'-PeCB (PCB-126) Mass, ng	M ₁₂₆	0.171	ND	0.171	0.171	ND	ND
2,2',3',4,4',5'-HxCB (PCB-128) Mass, ng	M ₁₂₈	0.123	ND	0.123	0.123	ND	ND
2,2',3',4,4',5'-HxCB (PCB-138) Mass, ng	M ₁₃₈	0.204	J q C B	0.0576	0.0405	J C B q	J C B
2,2',3',4,4',5'-HxCB (PCB-153) Mass, ng	M ₁₅₃	0.109	J C129	0.350	0.260	J C129 q	J C129
2,2',4,4',5'-HxCB (PCB-156) Mass, ng	M ₁₅₆	0.244	J q C B	J C B	0.153	J C B q	J C B q
2,3,3',4,4',5'-HxCB (PCB-157) Mass, ng	M ₁₅₇	0.0180	J q C	0.0312	0.0242	ND C	J C q
2,3,3',4,4',5'-HxCB (PCB-167) Mass, ng	M ₁₆₇	0.0180	J q C156	0.0312	0.0242	ND C156	J C156 q
2,2',3,3',4,4',5'-HxCB (PCB-169) Mass, ng	M ₁₆₉	0.00638	ND	ND	0.180	ND	ND
2,2',3,3',4,4',5'-HxCB (PCB-170) Mass, ng	M ₁₇₀	0.00302	J q	0.123	0.123	ND	ND
2,2',3,3',4,4',5'-HxCB (PCB-180) Mass, ng	M ₁₈₀	0.00901	J q	0.0127	0.0116	J q	J
2,2',3,3',4,4',5',5'-HpCB (PCB-187) Mass, ng	M ₁₈₇	0.0294	J C	0.0376	0.0327	J C q	J C
2,2',3,3',4,4',5',5'-HpCB (PCB-189) Mass, ng	M ₁₈₉	0.0244	J q	0.0246	0.0199	J q	J
2,2',3,3',4,4',5',5'-HpCB (PCB-195) Mass, ng	M ₁₉₅	0.147	ND	0.147	0.147	ND	ND
2,2',3,3',4,4',5',5'-HpCB (PCB-206) Mass, ng	M ₂₀₆	0.159	ND	0.159	0.159	ND	ND
2,2',3,3',4,4',5',5'-NoCB (PCB-209) Mass, ng	M ₂₀₉	0.171	ND	0.171	0.171	ND	ND
2,2',3,3',4,4',5',5',6'-DeCB (PCB-209) Mass, ng	M ₂₀₉	0.0231	J	0.0171	0.138	J q	J q

See analytical report for flag descriptors.

Appendix C

Emission Calculations

Location BASF Corporation - McIntosh, AL
Source Boiler No. 7
Project No. AST-2024-2594
Parameters PAH/PCB

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Run Time, min	(θ)	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
INPUT DATA									
Barometric Pressure, in. Hg	(Pb)	29.85	29.81	29.85	29.90	29.90	29.90	29.94	29.88
Meter Correction Factor	(Y)	1.018	1.018	1.018	1.018	1.018	1.018	1.018	--
Orifice Calibration Value	($\Delta H @$)	1.847	1.847	1.847	1.847	1.847	1.847	1.847	--
Meter Volume, ft ³	(Vm)	175.144	170.211	174.400	170.280	169.198	165.142	172.850	171.032
Meter Temperature, °F	(Tm)	79.2	82.8	73.8	81.1	72.1	80.9	73.6	77.6
Meter Temperature, °R	(Tm)	538.9	542.5	533.5	540.7	531.7	540.5	533.3	537.3
Meter Orifice Pressure, in. WC	(ΔH)	1.764	1.673	1.727	1.627	1.694	1.638	1.706	1.690
Volume H ₂ O Collected, mL	(Vlc)	734.6	684.9	795.1	762.1	793.2	740.3	810.4	760.1
Nozzle Diameter, in	(Dn)	0.248	0.246	0.248	0.246	0.248	0.246	0.248	0.247
Area of Nozzle, ft ²	(An)	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
ISOKINETIC DATA									
Standard Meter Volume, ft ³	(Vmstd)	174.943	168.610	175.946	169.721	171.525	164.661	174.951	171.479
Standard Water Volume, ft ³	(Vwstd)	34.644	32.300	37.497	35.941	37.407	34.913	38.218	35.846
Moisture Fraction Measured	(BWSmsd)	0.165	0.161	0.176	0.175	0.179	0.175	0.179	0.173
Moisture Fraction @ Saturation	(BWSsat)	14.620	14.392	14.658	14.085	13.945	14.163	13.817	14.240
Moisture Fraction	(BWS)	0.165	0.161	0.176	0.175	0.179	0.175	0.179	0.173
Meter Pressure, in Hg	(Pm)	29.98	29.93	29.98	30.02	30.02	30.02	30.07	30.00
Volume at Nozzle, ft ³	(Vn)	339.303	325.122	345.631	331.168	336.085	321.546	342.167	334.43
Isokinetic Sampling Rate, (%)	(I)	101.7	100.3	103.4	103.5	102.2	100.1	103.4	102.1
DGM Calibration Check Value, (+/- 5%)	(Y _{gm})	1.9	1.3	3.0	2.9	1.1	-0.3	2.8	1.8

Date: 6/10/24

^aHigher Number is for Rectangular Stacks or Ducts

24 or 25 ^apoints

20 points

16 points

12 points

8 or 9 ^apoints

¹ From Points of Any Type of Disturbance (Bend, Expansion, Contraction, etc.)

Stack Diameter > 0.61 m (24 in.)

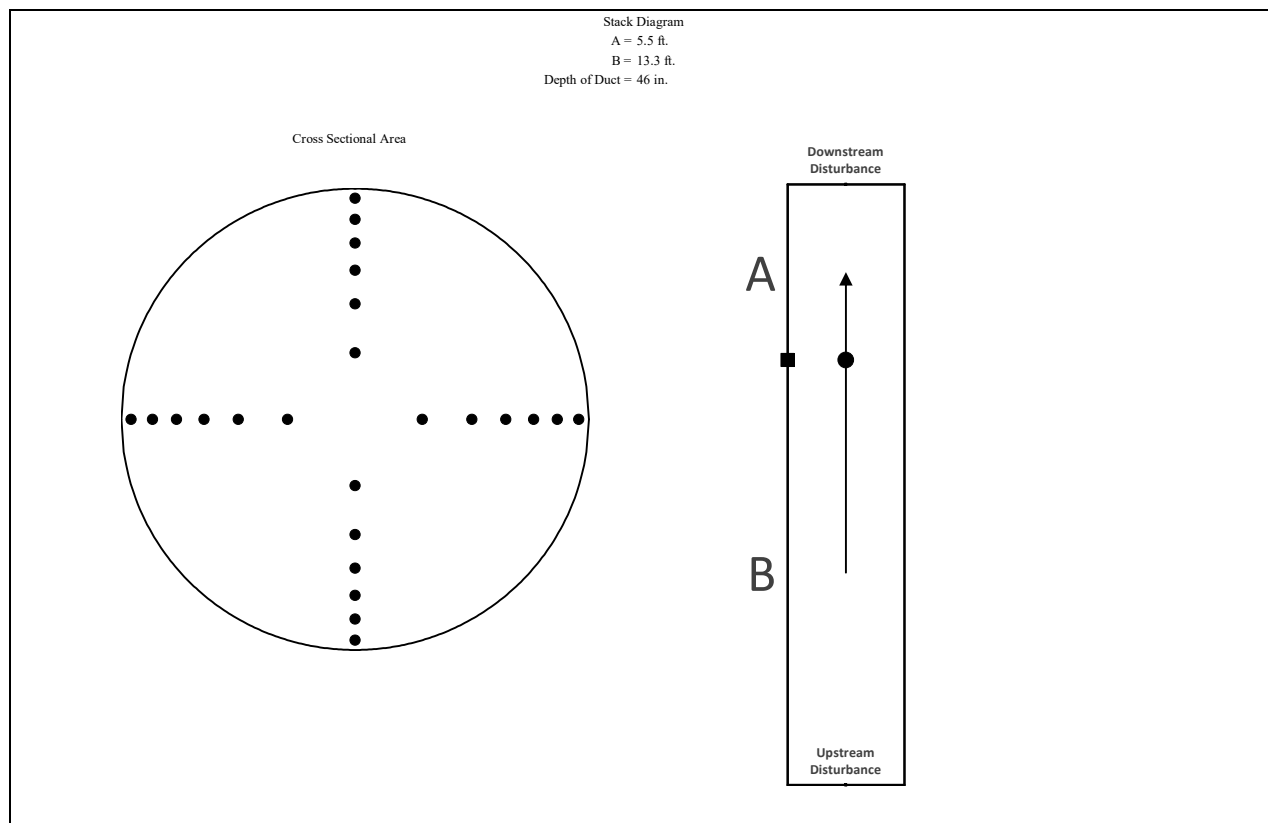
Stack Diameter = 0.30 to 0.61 m (12 - 24 in.)

Diagram labels: DISTURBANCE, MEASUREMENT SITE, DISTURBANCE

[illegible]

*Percent of stack diameter from inside wall to traverse point.

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	2.1	1.00	7
2	6.7	3.08	9 1/16
3	11.8	5.43	11 7/16
4	17.7	8.14	14 1/8
5	25.0	11.50	17 1/2
6	35.6	16.38	22 3/8
7	64.4	29.62	35 5/8
8	75.0	34.50	40 1/2
9	82.3	37.86	43 7/8
10	88.2	40.57	46 9/16
11	93.3	42.92	48 15/16
12	97.9	45.00	51



Cyclonic Flow Check

Location BASF Corporation - McIntosh, AL
 Source Boiler No. 7
 Project No. AST-2024-2594
 Date 06/10/24

Sample Point	Angle ($\Delta P=0$)
A1	0
2	0
3	0
4	5
5	5
6	5
7	5
8	0
9	5
10	0
11	0
12	0
B1	0
2	0
3	0
4	0
5	5
6	5
7	5
8	5
9	5
10	5
11	0
12	0
Average	2

Emission Calculations

Location **BASF Corporation - McIntosh, AL**

Source **Boiler No. 7**

Project No. **AST-2024-2594**

Parameters **PAH/PCB**

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		6/11/24	6/11/24	6/12/24	6/12/24	6/13/24	6/13/24	6/14/24	--
Start Time		9:20	14:11	8:40	13:30	8:10	13:20	8:16	--
Stop Time		13:31	18:22	12:52	17:44	12:15	17:30	12:20	--
Run Time, min		240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
VELOCITY HEAD, in. WC									
Point 1		0.72	0.80	0.74	0.74	0.85	0.72	0.90	0.78
Point 2		0.70	0.72	0.74	0.74	0.88	0.72	0.94	0.78
Point 3		0.74	0.80	0.72	0.74	0.86	0.74	0.92	0.79
Point 4		0.80	0.80	0.72	0.73	0.84	0.74	0.92	0.79
Point 5		0.97	0.80	0.72	0.74	0.90	0.74	0.92	0.83
Point 6		1.10	0.80	0.76	0.74	0.85	0.75	0.92	0.85
Point 7		1.10	0.75	0.89	0.82	0.85	0.75	0.99	0.88
Point 8		1.20	0.79	0.95	0.86	0.84	0.75	1.00	0.91
Point 9		1.10	0.77	1.10	0.87	0.95	0.80	1.00	0.94
Point 10		1.20	0.77	1.10	0.87	0.95	0.80	1.00	0.96
Point 11		1.20	0.80	1.00	1.00	0.97	0.80	1.00	0.97
Point 12		0.80	0.80	1.00	1.00	0.96	0.85	1.00	0.92
Point 13		1.10	1.00	1.10	1.00	1.00	0.85	1.00	1.01
Point 14		1.10	1.00	1.10	1.00	1.10	1.00	1.00	1.04
Point 15		1.10	1.00	1.10	1.00	1.10	1.00	1.00	1.04
Point 16		1.10	1.00	1.10	1.00	1.00	1.00	1.00	1.03
Point 17		1.10	1.10	1.10	1.00	1.00	1.10	1.10	1.07
Point 18		1.10	1.10	1.10	1.00	1.10	1.10	1.10	1.09
Point 19		1.10	1.10	1.10	1.00	1.10	1.10	1.10	1.09
Point 20		1.10	1.10	1.10	1.00	1.10	1.10	1.10	1.09
Point 21		1.20	1.10	1.00	1.10	1.10	1.10	1.10	1.10
Point 22		1.10	1.10	1.00	1.10	1.10	1.10	1.10	1.09
Point 23		1.10	1.10	1.00	1.10	1.10	1.10	1.10	1.09
Point 24		1.10	1.10	1.00	1.10	1.10	1.10	1.10	1.09
CALCULATED DATA									
Square Root of ΔP , (in. WC) ^{1/2}	(ΔP)	0.997	0.984	0.996	0.971	0.983	0.974	0.990	0.985
Pitot Tube Coefficient	(Cp)	0.800	0.799	0.800	0.799	0.800	0.799	0.800	0.800
Barometric Pressure, in. Hg	(Pb)	29.85	29.81	29.85	29.90	29.90	29.90	29.94	29.88
Static Pressure, in. WC	(Pg)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stack Pressure, in. Hg	(Ps)	29.87	29.83	29.87	29.92	29.92	29.92	29.96	29.90
Stack Cross-sectional Area, ft ²	(As)	11.54	11.54	11.54	11.54	11.54	11.54	11.54	11.54
Stack Temperature, °F	(Ts)	393.5	392.0	393.7	390.4	389.5	390.8	388.8	391.2
Stack Temperature, °R	(Ts)	853.1	851.6	853.4	850.0	849.1	850.5	848.5	850.9
Moisture Fraction Measured	(BWSmsd)	0.165	0.161	0.176	0.175	0.179	0.175	0.179	0.173
Moisture Fraction @ Saturation	(BWSsat)	14.620	14.392	14.658	14.085	13.945	14.163	13.817	14.240
Moisture Fraction	(BWS)	0.165	0.161	0.176	0.175	0.179	0.175	0.179	0.173
O ₂ Concentration, %	(O ₂)	3.83	3.82	3.78	3.77	3.99	3.87	3.85	3.84
CO ₂ Concentration, %	(CO ₂)	9.97	9.96	9.95	9.92	9.87	9.98	10.15	9.97
N ₂ Concentration, %	(N ₂)	86.2	86.22	86.27	86.31	86.14	86.15	86	86.18
Excess Air, %	(EA)	20.24	20.17	19.90	19.83	21.28	20.50	20.42	20.33
Molecular Weight, lb/lb-mole (dry)	(Md)	29.75	29.75	29.74	29.74	29.74	29.75	29.78	29.75
Molecular Weight, lb/lb-mole (wet)	(Ms)	27.81	27.86	27.68	27.69	27.64	27.70	27.67	27.72
Velocity, ft/sec	(Vs)	69.1	68.0	69.2	67.2	68.1	67.4	68.5	68.2
VOLUMETRIC FLOW RATE									
At Stack Conditions, acfm	(Qa)	47,833	47,092	47,910	46,502	47,158	46,671	47,422	47,227
At Standard Conditions, scfm	(Qsw)	29,537	29,092	29,577	28,869	29,306	28,958	29,534	29,268
At Standard Conditions, dscfm	(Qs)	24,655	24,415	24,381	23,824	24,059	23,892	24,239	24,209

Location **BASF Corporation - McIntosh, AL**

Source **Boiler No. 7**

Project No. **AST-2024-2594**

Parameters **PAH/PCB**

Analysis **Gravimetric**

Run 1	Date: 6/11/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	335.3	432.5	809.4	738.8	613.0	953.0	3882.0
Final Mass, g	351.5	1091.5	821.2	740.6	615.4	996.4	4616.6
Gain	16.2	659.0	11.8	1.8	2.4	43.4	734.6
Run 2	Date: 6/11/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	323.4	493.5	779.5	726.0	636.4	954.3	3913.1
Final Mass, g	339.2	1067.2	786.6	745.1	668.6	991.3	4598.0
Gain	15.8	573.7	7.1	19.1	32.2	37.0	684.9
Run 3	Date: 6/12/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	329.1	433.6	792.1	715.5	614.3	957.5	3842.1
Final Mass, g	335.2	1139.8	788.4	759.6	620.1	994.1	4637.2
Gain	6.1	706.2	-3.7	44.1	5.8	36.6	795.1
Run 4	Date: 6/12/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	272.7	495.5	707.3	743.6	637.8	938.5	3795.4
Final Mass, g	283.5	1058.7	832.3	759.2	645.5	978.3	4557.5
Gain	10.8	563.2	125.0	15.6	7.7	39.8	762.1
Run 5	Date: 6/13/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	332.7	433.2	692.1	764.5	614.8	933.5	3770.8
Final Mass, g	334.1	1081.9	803.9	758.8	618.5	966.8	4564.0
Gain	1.4	648.7	111.8	-5.7	3.7	33.3	793.2
Run 6	Date: 6/13/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	325.7	496.7	748.0	758.1	624.7	937.1	3890.3
Final Mass, g	339.9	1190.2	791.4	706.2	625.3	977.6	4630.6
Gain	14.2	693.5	43.4	-51.9	0.6	40.5	740.3
Run 7	Date: 6/14/24						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g	309.5	432.8	698.9	759.1	610.6	955.7	3766.6
Final Mass, g	310.7	988.3	873.9	784.6	620.0	999.5	4577.0
Gain	1.2	555.5	175.0	25.5	9.4	43.8	810.4
Run 8	Date: --						
Impinger No.	1	2	3	4	5	6	Total
Contents	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
Initial Mass, g							--
Final Mass, g							--
Gain	--	--	--	--	--	--	--

Location: BASF Corporation - McIntosh, AL				Start Time: 9:20		Source: Boiler No. 7					
Date: 6/11/24		Run 1		VALID		End Time: 13:31		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)				MOIST. DATA	
Moisture:	17.0	% est.	Meter Box ID: 8-1		Est. Tm:	74	°F		Pb:	29.85	in. Hg	Vlc (ml)			
Barometric:	29.85	in. Hg	Y: 1.018		Est. Ts:	391	°F		Pg:	0.30	in. WC	734.6			
Static Press:	0.10	in. WC	ΔH @ (in.WC): 1.847		Est. ΔP:	0.98	in. WC		O ₂ :	3.83	%	K-FACTOR			
Stack Press:	29.86	in. Hg	Probe ID: BR-5-1		Est. Dn:	0.247	in.		CO ₂ :	9.97	%	1.749			
CO ₂ :	10.2	%	Liner Material: glass		Target Rate:	0.70	scfm				Check Pt.	Initial	Final	Corr.	
O ₂ :	17.0	%	Pitot ID: BR-5-1		LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)				
N ₂ /CO:	72.8	%	Pitot Cp/Type: 0.800	S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)				
Md:	30.31	lb/lb-mole	Nozzle ID: 2594-1		Vacuum (in Hg):	16	--	--	--	15	Mid 3 (cf)				
Ms:	28.22	lb/lb-mole	Nozzle Dn (in.): 0.248		Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):				

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
B1	0.00	5.00	571.866	0.72	73	385	1.27	1.25	1	257	261	49	64	107.2	58.11
1	5.00	10.00	575.080	0.70	73	393	1.22	1.25	1	259	263	39	58	99.2	57.56
2	10.00	15.00	578.000	0.74	76	393	1.30	1.30	3	271	264	39	61	98.6	59.19
2	15.00	20.00	581.000	0.80	75	393	1.40	1.40	5	261	259	51	62	106.8	61.54
3	20.00	25.00	584.370	0.97	77	393	1.70	1.70	5	262	261	61	65	99.8	67.76
3	25.00	30.00	587.850	1.10	78	392	1.94	1.90	6	261	260	67	67	102.7	72.12
4	30.00	35.00	591.670	1.10	78	390	1.94	2.00	6	262	261	65	38	106.1	72.03
4	35.00	40.00	595.620	1.20	78	390	2.12	2.10	6	263	260	67	37	100.6	75.24
5	40.00	45.00	599.530	1.10	78	390	1.94	1.90	6	269	261	67	37	104.7	72.03
5	45.00	50.00	603.430	1.20	78	391	2.11	2.10	6	268	260	67	37	104.2	75.28
6	50.00	55.00	607.480	1.20	79	393	2.11	2.10	6	268	260	67	37	99.3	75.37
6	55.00	60.00	611.340	0.80	79	393	1.41	1.40	5	268	260	67	37	109.4	61.54
7	60.00	65.00	614.820	1.10	78	392	1.94	1.95	5	268	260	67	38	100.6	72.12
7	65.00	70.00	618.560	1.10	78	391	1.94	1.95	5	256	260	66	39	99.4	72.08
8	70.00	75.00	622.260	1.10	78	391	1.94	1.95	6	266	260	65	46	100.0	72.08
8	75.00	80.00	625.980	1.10	78	392	1.94	1.95	6	269	260	66	45	103.3	72.12
9	80.00	85.00	629.820	1.10	78	392	1.94	1.95	6	269	260	67	46	103.0	72.12
9	85.00	90.00	633.650	1.10	78	392	1.94	1.95	6	269	260	67	47	104.6	72.12
10	90.00	95.00	637.540	1.10	79	393	1.94	2.00	6	268	254	66	48	103.9	72.16
10	95.00	100.00	641.410	1.10	79	393	1.94	1.95	6	268	254	66	50	106.1	72.16
11	100.00	105.00	645.360	1.20	79	394	2.11	2.10	7	268	254	66	51	105.5	75.41
11	105.00	110.00	649.460	1.10	79	394	1.94	1.90	7	268	259	66	51	104.0	72.20
12	110.00	115.00	653.330	1.10	79	397	1.93	1.95	7	268	259	66	56	104.2	72.33
12	115.00	120.00	657.200	1.10	79	396	1.93	1.95	7	268	259	67	56	103.6	72.29
A1	120.00	125.00	661.052	1.00	78	392	1.76	1.75	6	255	258	67	57	97.2	68.76
1	125.00	130.00	664.499	1.00	78	392	1.76	1.75	5	251	260	65	44	94.5	68.76
2	130.00	135.00	667.850	0.75	78	393	1.32	1.33	5	230	261	60	44	103.5	59.58
2	135.00	140.00	671.030	0.75	79	394	1.32	1.33	5	245	261	61	44	104.6	59.62
3	140.00	145.00	674.250	0.82	79	395	1.44	1.45	5	250	262	61	44	103.9	62.38
3	145.00	150.00	677.590	0.82	79	395	1.44	1.45	5	259	263	60	43	107.0	62.38
4	150.00	155.00	681.030	0.85	79	395	1.50	1.50	5	264	260	60	44	90.4	63.51
4	155.00	160.00	683.990	0.85	79	395	1.50	1.50	5	255	259	61	45	105.7	63.51
5	160.00	165.00	687.450	0.90	80	393	1.59	1.60	5	259	258	62	44	106.3	65.27
5	165.00	170.00	691.040	0.91	80	394	1.61	1.61	5	253	259	62	45	99.9	65.67
6	170.00	175.00	694.430	0.92	81	393	1.63	1.60	6	257	262	63	45	102.9	65.99
6	175.00	180.00	697.950	0.92	81	394	1.63	1.60	6	260	258	63	48	102.4	66.03
7	180.00	185.00	701.450	0.93	81	392	1.65	1.65	5	253	261	60	39	103.7	66.31
7	185.00	190.00	705.020	0.98	81	392	1.74	1.70	5	258	259	58	34	108.4	68.07
8	190.00	195.00	708.850	1.00	82	393	1.77	1.80	6	265	263	57	39	103.6	68.80
8	195.00	200.00	712.550	1.00	82	393	1.77	1.80	5	260	260	57	39	103.6	68.80
9	200.00	205.00	716.250	1.10	83	395	1.95	2.00	6	270	262	57	40	109.4	72.24
9	205.00	210.00	720.350	1.10	81	395	1.94	2.00	6	269	258	58	40	102.1	72.24
10	210.00	215.00	724.160	1.10	81	396	1.94	1.90	5	270	259	58	41	101.6	72.29
10	215.00	220.00	727.950	1.10	81	396	1.94	1.90	6	264	259	58	40	107.2	72.29
11	220.00	225.00	731.950	1.00	83	398	1.77	1.70	5	266	259	60	39	103.7	69.00
11	225.00	230.00	735.650	1.00	83	399	1.76	1.80	5	266	259	60	40	103.8	69.04
12	230.00	235.00	739.350	1.10	83	400	1.94	2.00	5	268	259	60	41	101.7	72.46
12	235.00	240.00	743.150	1.10	85	400	1.94	2.00	6	267	260	63	41	103.0	72.46
Final DGM:			747.010												

RESULTS	Run Time		Vm	ΔP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	V _{ga}				
	240.0	min	175.144	ft ³	1.00	in. WC	79.2	°F	393.5	°F	7	1.764	in. WC	101.7	0.165

Location: BASF Corporation - McIntosh, AL				Start Time: 14:11		Source: Boiler No. 7					
Date: 6/11/24		Run 2		VALID		End Time: 18:22		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)		FILTER NO.		STACK DATA (FINAL)				MOIST. DATA	
Moisture:	17.0	% est.	Meter Box ID: 8-1		Est. Tm:	79	°F		Pb:	29.81	in. Hg	Vlc (ml)		
Barometric:	29.85	in. Hg	Y: 1.018		Est. Ts:	393	°F		Pg:	0.30	in. WC	684.9		
Static Press:	0.10	in. WC	ΔH @ (in.WC): 1.847		Est. ΔP:	1.00	in. WC		O ₂ :	3.82	%	K-FACTOR		
Stack Press:	29.86	in. Hg	Probe ID: BR-5-2		Est. Dn:	0.244	in.		CO ₂ :	9.96	%	1.71		
CO ₂ :	10.2	%	Liner Material: glass		Target Rate:	0.70	scfm		Check Pt. Initial Final Corr.					
O ₂ :	17.0	%	Pitot ID: BR-5-2		LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)			
N ₂ /CO:	72.8	%	Pitot Cp/Type: 0.799	S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)			
Md:	30.31	lb/lb-mole	Nozzle ID: 2594-2		Vacuum (in Hg):	15	--	--	--	16	Mid 3 (cf)			
Ms:	28.22	lb/lb-mole	Nozzle Dn (in.): 0.246		Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf): --			

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
B1	0.00	5.00	748.195	0.80	80	367	1.42	1.40	4	252	241	65	65	99.9	60.52
1	5.00	10.00	751.380	0.72	81	388	1.25	1.20	5	255	254	65	65	94.5	58.14
2	10.00	15.00	754.210	0.80	82	389	1.38	1.40	6	256	258	68	68	100.4	61.32
2	15.00	20.00	757.380	0.80	82	389	1.38	1.40	6	255	264	68	68	103.5	61.32
3	20.00	25.00	760.650	0.80	82	389	1.38	1.40	5	263	261	68	68	101.3	61.32
3	25.00	30.00	763.850	0.80	82	388	1.39	1.40	5	261	260	68	64	104.4	61.28
4	30.00	35.00	767.150	0.75	83	388	1.30	1.30	5	252	259	65	49	96.4	59.33
4	35.00	40.00	770.105	0.79	82	388	1.37	1.40	5	253	262	65	48	103.3	60.90
5	40.00	45.00	773.350	0.77	83	388	1.34	1.30	5	250	257	67	44	106.2	60.12
5	45.00	50.00	776.650	0.77	83	388	1.34	1.30	5	257	265	60	36	99.8	60.12
6	50.00	55.00	779.750	0.80	83	389	1.39	1.40	5	250	252	54	37	101.1	61.32
6	55.00	60.00	782.950	0.80	83	389	1.39	1.40	5	263	257	54	39	104.3	61.32
7	60.00	65.00	786.250	1.00	83	390	1.73	1.70	6	255	263	55	42	99.1	68.59
7	65.00	70.00	789.750	1.00	83	390	1.73	1.70	6	256	240	55	43	100.5	68.59
8	70.00	75.00	793.300	1.00	83	390	1.73	1.70	6	257	267	57	39	100.5	68.59
8	75.00	80.00	796.850	1.00	83	391	1.73	1.70	6	261	257	58	41	99.1	68.64
9	80.00	85.00	800.350	1.10	83	393	1.90	1.90	7	260	264	59	40	101.4	72.07
9	85.00	90.00	804.100	1.10	84	393	1.90	1.90	7	263	262	58	41	101.3	72.07
10	90.00	95.00	807.850	1.10	84	395	1.90	1.90	7	258	259	60	39	102.7	72.15
10	95.00	100.00	811.650	1.10	84	395	1.90	1.90	7	258	261	60	39	108.1	72.15
11	100.00	105.00	815.650	1.10	83	395	1.89	1.90	7	256	259	62	39	101.6	72.15
11	105.00	110.00	819.400	1.10	83	397	1.89	1.90	7	261	260	63	38	100.0	72.24
12	110.00	115.00	823.090	1.10	83	397	1.89	1.90	7	270	260	65	41	99.2	72.24
12	115.00	120.00	826.750	1.10	83	398	1.88	1.90	7	270	261	66	42	100.2	72.28
A1	120.00	125.00	830.444	0.80	81	392	1.38	1.40	5	265	266	66	45	109.8	61.43
1	125.00	130.00	833.900	0.90	82	393	1.55	1.60	6	259	228	57	46	106.0	65.19
2	130.00	135.00	837.440	0.90	82	393	1.55	1.60	6	256	258	55	45	105.1	65.19
2	135.00	140.00	840.950	1.00	82	391	1.73	1.70	7	255	268	56	47	105.6	68.64
3	140.00	145.00	844.670	1.10	83	392	1.90	1.90	7	258	257	56	45	107.3	72.03
3	145.00	150.00	848.640	1.10	83	393	1.90	1.90	7	256	259	56	48	108.5	72.07
4	150.00	155.00	852.650	1.00	83	393	1.72	1.70	6	253	258	57	48	104.9	68.72
4	155.00	160.00	856.350	1.00	83	393	1.72	1.70	6	255	249	57	47	103.6	68.72
5	160.00	165.00	860.005	1.00	83	393	1.72	1.70	6	251	231	57	49	106.5	68.72
5	165.00	170.00	863.760	1.10	84	393	1.90	1.90	6	257	262	58	48	104.0	72.07
6	170.00	175.00	867.610	0.94	84	392	1.63	1.70	6	256	265	57	38	105.6	66.58
6	175.00	180.00	871.230	0.91	84	392	1.57	1.60	6	254	265	57	39	108.8	65.51
7	180.00	185.00	874.900	1.00	84	390	1.73	1.70	6	254	265	56	37	107.9	68.59
7	185.00	190.00	878.720	1.00	84	390	1.73	1.70	6	257	265	56	39	91.5	68.59
8	190.00	195.00	881.960	1.10	82	391	1.90	1.70	6	259	260	56	38	95.2	71.99
8	195.00	200.00	885.480	1.10	83	391	1.90	1.90	7	261	263	56	40	101.6	71.99
9	200.00	205.00	889.240	1.10	83	391	1.90	1.90	7	260	262	57	43	105.1	71.99
9	205.00	210.00	893.130	1.10	83	396	1.89	1.90	7	254	250	57	44	98.1	72.20
10	210.00	215.00	896.750	1.10	83	396	1.89	1.90	7	253	260	58	45	96.7	72.20
10	215.00	220.00	900.320	1.10	83	399	1.88	1.90	7	258	257	61	52	97.7	72.32
11	220.00	225.00	903.920	1.10	83	400	1.88	1.90	7	254	240	62	54	108.6	72.36
11	225.00	230.00	907.920	1.00	83	399	1.71	1.70	7	262	262	63	54	100.5	68.96
12	230.00	235.00	911.450	1.10	83	399	1.88	1.90	7	264	265	64	57	100.1	72.32
12	235.00	240.00	915.139	0.90	83	399	1.54	1.50	7	263	268	68	59	97.9	65.42
Final DGM:			918.406												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}					
		240.0	min	170.211	ft ³	0.97	in. WC	82.8	°F	392.0	°F	7	1.673	in. WC	100.3	0.161

Location: BASF Corporation - McIntosh, AL					Start Time: 8:40		Source: Boiler No. 7				
Date: 6/12/24		Run 3		VALID		End Time: 12:52		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA		
Moisture:	17.0	% est.	Meter Box ID: 8-1 Y: 1.018 AH @ (in.WC): 1.847 Probe ID: BR-5-1 Liner Material: glass Pitot ID: BR-5-1 Pitot Cp/Type: 0.800 S-type Nozzle ID: 2594-1 glass Nozzle Dn (in.): 0.248		Est. Tm:	83	°F			Pb:	29.85	in. Hg	Vlc (ml)		
Barometric:	29.85	in. Hg			Est. Ts:	392	°F			Pg:	0.30	in. WC	795.1		
Static Press:	0.10	in. WC			Est. AP:	0.97	in. WC			O ₂ :	3.78	%	K-FACTOR		
Stack Press:	29.86	in. Hg			Est. Dn:	0.235	in.			CO ₂ :	9.95	%	1.777		
CO ₂ :	10.2	%			Target Rate:	0.65	scfm								
O ₂ :	17.0	%			LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Check Pt.	Initial	Final	Corr.	
N ₂ /CO:	72.8	%			Leak Rate (cfm):	0.000	--	--	--	0.002	Mid 1 (cf)	--			
Md:	30.31	lb/lb-mole			Vacuum (in Hg):	16	--	--	--	10	Mid 2 (cf)	--			
Ms:	28.22	lb/lb-mole			Pitot Tube:	Pass	--	--	--	Pass	Mid 3 (cf)	--			
												Mid-Point Leak Check Vol (cf):			--

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
	Amb.	Amb.			Amb.	Amb.				Amb.	Amb.				
	Begin	End			--	--				--	--	--	--		
B1	0.00	5.00	921.810	0.74	68	393	1.28	1.30	4	253	260	68	44	102.8	59.19
1	5.00	10.00	924.890	0.74	68	393	1.28	1.30	4	255	257	63	48	98.8	59.19
2	10.00	15.00	927.850	0.72	68	393	1.24	1.20	4	254	262	62	47	102.1	58.38
2	15.00	20.00	930.870	0.72	69	393	1.25	1.20	4	250	259	61	48	103.3	58.38
3	20.00	25.00	933.930	0.72	70	393	1.25	1.20	4	247	258	61	48	102.4	58.38
3	25.00	30.00	936.970	0.76	70	393	1.32	1.30	4	250	255	62	48	107.3	59.98
4	30.00	35.00	940.240	0.89	71	393	1.55	1.50	5	251	260	65	50	102.3	64.91
4	35.00	40.00	943.620	0.95	81	392	1.68	1.70	5	258	263	64	50	109.3	67.02
5	40.00	45.00	947.420	1.10	72	392	1.92	1.90	5	254	265	60	49	100.9	72.12
5	45.00	50.00	951.130	1.10	73	392	1.92	1.90	5	259	260	59	49	99.3	72.12
6	50.00	55.00	954.790	1.00	72	392	1.74	1.70	5	263	263	61	50	106.0	68.76
6	55.00	60.00	958.510	1.00	72	392	1.74	1.70	5	257	259	62	50	103.2	68.76
7	60.00	65.00	962.130	1.10	72	391	1.92	1.90	5	259	263	61	50	103.0	72.08
7	65.00	70.00	965.920	1.10	72	392	1.92	1.90	5	257	259	65	62	100.1	72.12
8	70.00	75.00	969.600	1.10	72	392	1.92	1.90	5	255	262	65	52	102.2	72.12
8	75.00	80.00	973.360	1.10	73	393	1.92	1.90	5	257	260	60	45	110.0	72.16
9	80.00	85.00	977.410	1.10	73	393	1.92	1.90	5	262	261	52	34	102.6	72.16
9	85.00	90.00	981.190	1.10	73	393	1.92	1.90	5	270	260	50	35	102.4	72.16
10	90.00	95.00	984.960	1.10	73	392	1.92	1.90	5	273	260	49	35	99.6	72.12
10	95.00	100.00	988.630	1.10	74	394	1.92	1.90	5	273	261	50	35	105.2	72.20
11	100.00	105.00	992.510	1.00	74	396	1.74	1.70	5	272	261	50	35	103.3	68.92
11	105.00	110.00	996.140	1.00	74	395	1.74	1.70	5	273	261	51	36	105.0	68.88
12	110.00	115.00	999.830	1.00	74	396	1.74	1.70	5	268	260	53	36	105.0	68.92
12	115.00	120.00	1003.520	1.00	74	396	1.74	1.70	5	269	260	54	36	101.3	68.92
A1	120.00	125.00	1007.080	0.87	74	396	1.51	1.70	5	266	259	54	37	109.9	64.29
1	125.00	130.00	1010.680	0.82	74	383	1.45	1.40	5	258	258	61	37	102.9	61.94
2	130.00	135.00	1013.980	0.81	73	397	1.41	1.40	5	253	254	51	36	105.8	62.07
2	135.00	140.00	1017.320	0.81	74	397	1.41	1.40	5	266	261	51	36	104.0	62.07
3	140.00	145.00	1020.610	0.85	75	397	1.48	1.50	5	265	258	52	37	101.7	63.58
3	145.00	150.00	1023.910	0.85	75	398	1.48	1.50	5	265	262	53	37	108.8	63.62
4	150.00	155.00	1027.440	0.95	74	398	1.65	1.70	5	258	264	54	41	102.3	67.26
4	155.00	160.00	1030.940	0.95	75	396	1.66	1.70	5	258	257	55	42	104.6	67.18
5	160.00	165.00	1034.530	1.00	75	395	1.75	1.80	5	262	260	57	44	104.5	68.88
5	165.00	170.00	1038.210	1.10	75	394	1.92	1.90	5	256	257	58	45	101.0	72.20
6	170.00	175.00	1041.940	1.10	75	394	1.92	1.90	5	262	261	60	48	105.3	72.20
6	175.00	180.00	1045.830	1.10	75	392	1.93	1.90	5	257	265	61	51	100.3	72.12
7	180.00	185.00	1049.540	1.10	75	393	1.92	1.90	5	256	263	64	52	103.6	72.16
7	185.00	190.00	1053.370	1.10	76	394	1.93	1.90	5	262	261	59	42	103.8	72.20
8	190.00	195.00	1057.210	1.20	76	394	2.10	2.10	6	258	263	53	40	104.3	75.41
8	195.00	200.00	1061.240	1.20	76	394	2.10	2.10	6	260	258	52	40	103.3	75.41
9	200.00	205.00	1065.230	1.10	76	394	1.93	1.90	6	253	256	52	40	102.7	72.20
9	205.00	210.00	1069.030	1.10	76	394	1.93	1.90	6	259	262	52	41	108.3	72.20
10	210.00	215.00	1073.040	1.10	76	394	1.93	1.90	6	263	260	52	41	105.1	72.20
10	215.00	220.00	1076.930	1.10	77	394	1.93	1.90	6	252	261	54	42	98.2	72.20
11	220.00	225.00	1080.570	1.10	77	394	1.93	1.90	6	254	261	55	44	102.5	72.20
11	225.00	230.00	1084.370	1.10	77	394	1.93	1.90	6	255	258	56	45	106.5	72.20
12	230.00	235.00	1088.320	1.10	77	394	1.93	1.90	6	256	258	58	47	106.8	72.20
12	235.00	240.00	1092.280	1.10	77	394	1.93	1.90	6	259	261	60	49	106.0	72.20
Final DGM:			1096.210												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}	
	240.0	min	174.400	ft³	1.00	in. WC	73.8	°F	393.7	°F	6	
								1.727	in. WC	103.4	0.176	3.0

Location: BASF Corporation - McIntosh, AL				Start Time: 13:30		Source: Boiler No. 7					
Date: 6/12/24		Run 4		VALID		End Time: 17:44		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	17.0	% est.	Meter Box ID: 8-1 Y: 1.018 ΔH @ (in.WC): 1.847 Probe ID: BR-5-2 Liner Material: glass Pitot ID: BR-5-2 Pitot Cp/Type: 0.799 S-type Nozzle ID: 2594-2 glass Nozzle Dn (in.): 0.246		Est. Tm:	74	°F		Pb:	29.90	in. Hg	Vlc (ml)		
Barometric:	29.85	in. Hg			Est. Ts:	394	°F		Pg:	0.30	in. WC	762.1		
Static Press:	0.10	in. WC			Est. ΔP:	1.00	in. WC		O ₂ :	3.77	%	K-FACTOR		
Stack Press:	29.86	in. Hg			Est. Dn:	0.236	in.		CO ₂ :	9.92	%	1.693		
CO ₂ :	10.2	%			Target Rate:	0.65	scfm		Check Pt.		Initial	Final	Corr.	
O ₂ :	17.0	%			LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--	
N ₂ /CO:	72.8	%			Leak Rate (cfm):	0.000	--	--	--	0.004	Mid 2 (cf)		--	
Md:	30.31	lb/lb-mole			Vacuum (in Hg):	16	--	--	--	11	Mid 3 (cf)		--	
Ms:	28.22	lb/lb-mole			Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
B1	0.00	5.00	97.200	0.74	78	383	1.28	1.30	4	258	265	63	47	104.1	58.76
1	5.00	10.00	100.350	0.74	78	387	1.27	1.30	4	258	263	63	49	104.7	58.90
2	10.00	15.00	103.510	0.74	79	388	1.28	1.30	4	258	269	65	51	106.2	58.94
2	15.00	20.00	106.720	0.73	80	388	1.26	1.30	4	261	264	64	57	103.7	58.54
3	20.00	25.00	109.840	0.74	80	388	1.28	1.30	4	265	261	65	58	102.7	58.94
3	25.00	30.00	112.950	0.74	80	388	1.28	1.30	4	266	250	63	61	105.7	58.94
4	30.00	35.00	116.150	0.82	80	388	1.42	1.40	4	244	264	65	45	106.0	62.04
4	35.00	40.00	119.530	0.86	81	389	1.49	1.50	4	255	262	63	46	106.8	63.57
5	40.00	45.00	123.020	0.87	80	389	1.50	1.50	5	257	259	66	50	105.5	63.94
5	45.00	50.00	126.480	0.87	81	389	1.50	1.50	5	258	263	62	52	105.6	63.94
6	50.00	55.00	129.950	1.00	81	389	1.73	1.70	5	255	261	60	50	99.4	68.55
6	55.00	60.00	133.450	1.00	81	389	1.73	1.70	5	248	257	59	52	103.4	68.55
7	60.00	65.00	137.090	1.00	81	389	1.73	1.70	5	258	259	60	55	102.8	68.55
7	65.00	70.00	140.710	1.00	81	391	1.72	1.70	5	257	260	61	59	104.3	68.64
8	70.00	75.00	144.380	1.00	81	391	1.72	1.70	5	268	265	59	63	103.8	68.64
8	75.00	80.00	148.030	1.00	81	391	1.72	1.70	5	266	264	58	65	104.0	68.64
9	80.00	85.00	151.690	1.00	82	391	1.73	1.70	5	257	263	62	50	104.1	68.64
9	85.00	90.00	155.360	1.00	82	391	1.73	1.70	5	261	261	63	54	103.9	68.64
10	90.00	95.00	159.020	1.00	82	391	1.73	1.70	5	262	248	64	59	103.3	68.64
10	95.00	100.00	162.660	1.00	82	391	1.73	1.70	5	257	261	65	61	105.6	68.64
11	100.00	105.00	166.380	1.10	82	391	1.90	1.90	5	259	252	66	63	101.2	71.99
11	105.00	110.00	170.120	1.10	82	392	1.89	1.90	5	250	258	62	53	105.6	72.03
12	110.00	115.00	174.020	1.10	82	393	1.89	1.90	5	253	241	64	58	97.6	72.07
12	115.00	120.00	177.620	1.10	82	393	1.89	1.90	5	259	263	64	62	103.0	72.07
A1	120.00	125.00	181.420	0.89	80	393	1.53	1.50	5	260	255	61	39	99.7	64.83
1	125.00	130.00	184.720	0.90	80	393	1.54	1.50	5	253	264	55	44	105.7	65.19
2	130.00	135.00	188.240	0.90	80	393	1.54	1.50	5	255	259	56	50	100.6	65.19
2	135.00	140.00	191.590	0.89	81	393	1.53	1.50	5	263	258	58	54	109.8	64.83
3	140.00	145.00	195.230	0.88	81	392	1.51	1.50	5	251	257	58	56	97.9	64.42
3	145.00	150.00	198.460	0.89	81	393	1.53	1.50	5	251	251	58	56	104.6	64.83
4	150.00	155.00	201.930	0.97	82	391	1.67	1.70	5	264	266	58	54	103.1	67.60
4	155.00	160.00	205.510	0.97	82	390	1.68	1.70	5	265	268	55	56	109.7	67.56
5	160.00	165.00	209.320	0.99	82	391	1.71	1.70	5	261	268	56	57	100.4	68.29
5	165.00	170.00	212.840	0.99	82	391	1.71	1.70	5	255	268	56	56	104.7	68.29
6	170.00	175.00	216.510	1.00	81	391	1.72	1.70	5	264	257	57	56	95.2	68.64
6	175.00	180.00	219.860	1.00	81	391	1.72	1.70	5	260	259	56	56	102.1	68.64
7	180.00	185.00	223.450	1.10	81	391	1.89	1.90	5	263	261	57	57	103.9	71.99
7	185.00	190.00	227.280	1.10	81	390	1.90	1.90	6	257	260	59	56	106.5	71.94
8	190.00	195.00	231.210	0.98	81	390	1.69	1.70	6	249	261	58	56	109.3	67.91
8	195.00	200.00	235.020	0.98	82	391	1.69	1.70	6	256	257	59	57	108.6	67.95
9	200.00	205.00	238.810	0.96	81	390	1.66	1.70	6	260	270	60	57	109.0	67.21
9	205.00	210.00	242.570	0.96	82	390	1.66	1.70	6	261	273	58	40	107.4	67.21
10	210.00	215.00	246.280	1.00	81	391	1.72	1.70	6	263	270	58	43	96.9	68.64
10	215.00	220.00	249.690	1.00	82	390	1.73	1.70	5	249	263	58	45	104.1	68.59
11	220.00	225.00	253.360	0.96	82	391	1.66	1.70	5	250	259	59	45	107.4	67.25
11	225.00	230.00	257.070	0.96	82	390	1.66	1.70	5	252	255	60	45	91.2	67.21
12	230.00	235.00	260.220	0.92	82	390	1.59	1.60	5	251	261	61	47	106.4	65.79
12	235.00	240.00	263.820	0.92	82	391	1.59	1.60	5	251	261	62	49	108.2	65.83
Final DGM:			267.480												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}			
	240.0	min	170.280	ft ³	0.95	in. WC	81.1	°F	390.4	°F	6	1.627 in. WC	103.5	0.175

Location: BASF Corporation - McIntosh, AL					Start Time: 8:10		Source: Boiler No. 7				
Date: 6/13/24		Run 5		VALID		End Time: 12:15		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)				MOIST. DATA		
Moisture:	17.0	% est.	Meter Box ID: 8-1		Est. Tm:	81	°F		Pb:	29.90	in. Hg	Vlc (ml)				
Barometric:	29.85	in. Hg	Y: 1.018		Est. Ts:	390	°F		Pg:	0.30	in. WC	793.2				
Static Press:	0.10	in. WC	ΔH @ (in.WC): 1.847		Est. ΔP:	0.95	in. WC		O ₂ :	3.99	%	K-FACTOR				
Stack Press:	29.86	in. Hg	Probe ID: BR-5-1		Est. Dn:	0.247	in.		CO ₂ :	9.87	%	1.775				
CO ₂ :	10.2	%	Liner Material: glass		Target Rate:	0.70	scfm						Check Pt.	Initial	Final	Corr.
O ₂ :	17.0	%	Pitot ID: BR-5-1		LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--			
N ₂ /CO:	72.8	%	Pitot Cp/Type: 0.800	S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--			
Md:	30.31	lb/lb-mole	Nozzle ID: 2594-1		Vacuum (in Hg):	16	--	--	--	16	Mid 3 (cf)		--			
Ms:	28.22	lb/lb-mole	Nozzle Dn (in.): 0.248		Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf): --					

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack	Probe	Filter		Imp Exit	Trap				
	Amb.	Amb.			Amb.	Amb.	Amb.	Amb.							
	Begin	End			--	--	Ideal	Actual		--	--	--	--		
B1	0.00	5.00	268.016	0.85	65	324	1.59	1.60	4	266	261	50	56	108.0	60.81
1	5.00	10.00	271.610	0.88	66	383	1.53	1.50	4	264	261	52	65	98.7	64.16
2	10.00	15.00	274.840	0.86	67	383	1.50	1.50	5	261	261	55	52	102.1	63.43
2	15.00	20.00	278.150	0.84	66	393	1.45	1.50	5	251	260	66	53	103.8	63.06
3	20.00	25.00	281.450	0.90	67	394	1.55	1.60	5	261	262	53	64	103.2	65.31
3	25.00	30.00	284.850	0.85	68	394	1.47	1.50	5	261	258	52	68	103.8	63.47
4	30.00	35.00	288.180	0.85	67	394	1.46	1.50	5	269	260	52	67	102.1	63.47
4	35.00	40.00	291.450	0.84	68	393	1.45	1.40	5	261	261	53	68	106.5	63.06
5	40.00	45.00	294.850	0.95	68	392	1.64	1.60	5	260	261	55	65	103.1	67.02
5	45.00	50.00	298.350	0.95	68	391	1.64	1.60	5	264	259	55	66	106.0	66.98
6	50.00	55.00	301.950	0.97	68	392	1.68	1.70	5	256	261	54	67	105.0	67.72
6	55.00	60.00	305.550	0.96	67	391	1.66	1.70	5	248	259	56	65	93.9	67.33
7	60.00	65.00	308.750	1.00	69	391	1.73	1.70	5	257	262	56	64	108.6	68.72
7	65.00	70.00	312.540	1.10	69	391	1.91	2.00	6	256	259	58	63	106.9	72.08
8	70.00	75.00	316.450	1.10	68	392	1.90	1.90	6	254	261	54	66	107.1	72.12
8	75.00	80.00	320.360	1.00	70	392	1.74	1.70	7	258	262	57	64	102.7	68.76
9	80.00	85.00	323.950	1.00	70	390	1.74	1.70	7	254	259	53	46	100.0	68.68
9	85.00	90.00	327.450	1.10	71	392	1.91	1.90	7	253	260	54	46	103.5	72.12
10	90.00	95.00	331.250	1.10	72	394	1.91	1.90	7	255	259	54	47	100.7	72.20
10	95.00	100.00	334.950	1.10	72	394	1.91	1.90	7	260	260	54	46	92.6	72.20
11	100.00	105.00	338.350	1.10	72	393	1.91	1.90	7	258	261	53	42	99.3	72.16
11	105.00	110.00	342.000	1.10	71	393	1.91	1.90	6	255	259	53	44	98.1	72.16
12	110.00	115.00	345.600	1.10	72	395	1.91	1.90	6	255	260	56	50	102.1	72.24
12	115.00	120.00	349.350	1.10	73	394	1.91	1.90	6	258	262	56	57	100.5	72.20
A1	120.00	125.00	353.048	0.85	72	389	1.49	1.50	5	257	258	57	57	102.2	63.28
1	125.00	130.00	356.360	0.80	72	391	1.40	1.40	5	265	260	54	61	103.8	61.47
2	130.00	135.00	359.620	0.80	72	389	1.40	1.40	5	264	259	52	66	94.1	61.39
2	135.00	140.00	362.580	0.85	73	390	1.49	1.50	5	249	260	53	63	102.3	63.32
3	140.00	145.00	365.900	0.80	73	389	1.40	1.40	5	264	261	53	65	102.2	61.39
3	145.00	150.00	369.120	0.80	74	390	1.40	1.40	5	254	246	53	66	102.4	61.43
4	150.00	155.00	372.350	0.85	74	389	1.49	1.50	5	250	255	53	65	99.9	63.28
4	155.00	160.00	375.600	0.85	75	389	1.50	1.50	4	252	267	54	68	104.6	63.28
5	160.00	165.00	379.010	0.94	75	388	1.65	1.70	5	263	261	54	63	101.2	66.51
5	165.00	170.00	382.480	0.91	74	388	1.60	1.60	5	258	259	54	62	97.4	65.44
6	170.00	175.00	385.760	0.92	75	388	1.62	1.60	5	264	264	56	52	103.2	65.80
6	175.00	180.00	389.260	0.93	75	388	1.64	1.60	5	262	260	55	66	100.3	66.16
7	180.00	185.00	392.680	0.95	76	387	1.68	1.70	5	262	260	53	55	106.5	66.82
7	185.00	190.00	396.360	1.00	76	386	1.77	1.80	5	259	255	52	54	93.6	68.52
8	190.00	195.00	399.680	1.00	77	386	1.77	1.80	6	252	267	51	53	108.9	68.52
8	195.00	200.00	403.550	0.95	77	387	1.68	1.70	6	255	235	50	56	101.1	66.82
9	200.00	205.00	407.050	1.00	77	390	1.76	1.80	6	256	258	51	55	96.8	68.68
9	205.00	210.00	410.480	1.10	77	391	1.94	2.00	7	261	267	50	54	106.9	72.08
10	210.00	215.00	414.450	1.10	77	392	1.93	1.90	7	256	263	51	59	101.0	72.12
10	215.00	220.00	418.200	1.10	77	392	1.93	1.90	7	251	264	52	52	100.5	72.12
11	220.00	225.00	421.930	1.10	76	395	1.92	1.90	7	253	270	53	50	100.6	72.24
11	225.00	230.00	425.650	1.10	77	395	1.93	1.90	7	259	256	54	53	102.5	72.24
12	230.00	235.00	429.450	1.10	77	395	1.93	1.90	7	259	271	54	53	105.2	72.24
12	235.00	240.00	433.350	1.10	77	396	1.92	1.90	7	257	255	55	56	104.3	72.29
Final DGM:			437.214												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}				
	240.0	min	169.198	ft ³	0.97	in. WC	72.1	°F	389.5	°F	7	1.694	in. WC	102.2	0.179

Location: BASF Corporation - McIntosh, AL					Start Time: 13:20		Source: Boiler No. 7				
Date: 6/13/24		Run 6		VALID		End Time: 17:30		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)				MOIST. DATA	
Moisture:	17.0	% est.	Meter Box ID: 8-1 Y: 1.018 ΔH @ (in.WC): 1.847 Probe ID: BR-5-2 Liner Material: glass Pitot ID: BR-5-2 Pitot Cp/Type: 0.799 S-type Nozzle ID: 2594-2 glass Nozzle Dn (in.): 0.246		Est. Tm:	72	°F		Pb:	29.90	in. Hg	Vlc (ml)		740.3	
Barometric:	29.85	in. Hg			Est. Ts:	389	°F		Pg:	0.30	in. WC				
Static Press:	0.10	in. WC			Est. ΔP:	0.97	in. WC		O ₂ :	3.87	%	K-FACTOR			
Stack Press:	29.86	in. Hg			Est. Dn:	0.238	in.		CO ₂ :	9.98	%	1.696			
CO ₂ :	10.2	%			Target Rate:	0.65	scfm				Check Pt.	Initial	Final	Corr.	
O ₂ :	17.0	%			LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--		
N ₂ /CO:	72.8	%			Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--		
Md:	30.31	lb/lb-mole			Vacuum (in Hg):	16	--	--	--	16	Mid 3 (cf)		--		
Ms:	28.22	lb/lb-mole			Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--		

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack	Probe	Filter		Imp Exit	Trap				
	Amb.	Amb.			Amb.	Amb.	Amb.	Amb.							
	Begin	End			--	--	Ideal	Actual		--	--	--	--		
B1	0.00	5.00	440.588	0.72	75	378	1.25	1.20	4	251	260	47	68	99.5	57.79
1	5.00	10.00	443.550	0.72	76	391	1.23	1.20	4	267	262	49	68	104.4	58.24
2	10.00	15.00	446.640	0.74	77	391	1.27	1.20	5	266	261	50	66	103.4	59.04
2	15.00	20.00	449.750	0.74	78	390	1.27	1.20	5	265	261	51	66	98.8	59.01
3	20.00	25.00	452.730	0.74	78	391	1.27	1.20	5	260	260	50	66	96.9	59.04
3	25.00	30.00	455.650	0.75	75	390	1.28	1.30	5	266	262	50	65	92.8	59.40
4	30.00	35.00	458.450	0.75	82	391	1.30	1.30	5	254	261	55	68	91.7	59.44
4	35.00	40.00	461.250	0.75	80	391	1.29	1.30	5	261	259	56	64	90.7	59.44
5	40.00	45.00	464.010	0.80	80	391	1.38	1.40	5	251	259	55	64	99.9	61.39
5	45.00	50.00	467.150	0.80	79	390	1.38	1.40	5	251	260	54	65	109.3	61.35
6	50.00	55.00	470.580	0.80	80	391	1.38	1.40	5	251	260	53	66	108.5	61.39
6	55.00	60.00	473.990	0.85	81	391	1.46	1.50	5	250	255	61	65	109.7	63.28
7	60.00	65.00	477.550	0.85	81	390	1.47	1.50	5	252	262	40	63	105.6	63.24
7	65.00	70.00	480.980	1.00	82	390	1.73	1.70	5	260	260	36	64	97.3	68.59
8	70.00	75.00	484.410	1.00	81	392	1.72	1.70	5	255	262	37	60	100.1	68.68
8	75.00	80.00	487.930	1.00	81	392	1.72	1.70	5	264	260	36	59	100.1	68.68
9	80.00	85.00	491.450	1.10	81	392	1.89	1.90	5	265	260	41	59	98.0	72.03
9	85.00	90.00	495.060	1.10	81	392	1.89	1.90	5	266	260	42	60	93.1	72.03
10	90.00	95.00	498.490	1.10	81	392	1.89	1.90	5	267	260	43	60	95.5	72.03
10	95.00	100.00	502.010	1.10	82	392	1.89	1.90	5	265	258	46	61	90.5	72.03
11	100.00	105.00	505.350	1.10	82	391	1.90	1.90	5	259	260	46	62	103.4	71.99
11	105.00	110.00	509.170	1.10	82	392	1.89	1.90	5	256	260	47	63	91.5	72.03
12	110.00	115.00	512.550	1.10	82	392	1.89	1.90	5	265	260	48	63	102.9	72.03
12	115.00	120.00	516.350	1.10	82	392	1.89	1.90	6	266	262	50	64	90.1	72.03
A1	120.00	125.00	519.678	0.82	81	390	1.41	1.40	6	251	260	58	67	93.5	62.12
1	125.00	130.00	522.660	0.82	81	392	1.41	1.40	6	252	260	48	68	102.6	62.19
2	130.00	135.00	525.930	0.86	82	392	1.48	1.50	6	252	261	42	60	103.7	63.69
2	135.00	140.00	529.320	0.86	82	392	1.48	1.50	6	259	258	40	59	103.7	63.69
3	140.00	145.00	532.710	0.91	82	392	1.57	1.60	6	252	256	41	60	96.7	65.51
3	145.00	150.00	535.960	0.92	81	391	1.58	1.60	6	265	262	42	62	104.6	65.83
4	150.00	155.00	539.490	0.95	82	391	1.64	1.60	6	254	259	45	63	95.2	66.90
4	155.00	160.00	542.760	0.95	82	391	1.64	1.60	6	256	260	46	63	103.6	66.90
5	160.00	165.00	546.320	0.94	82	391	1.62	1.60	6	255	261	47	64	99.5	66.54
5	165.00	170.00	549.720	0.95	81	390	1.64	1.60	6	260	259	47	66	102.3	66.86
6	170.00	175.00	553.230	1.00	82	391	1.73	1.70	6	255	257	48	68	101.0	68.64
6	175.00	180.00	556.790	1.00	82	391	1.73	1.70	6	255	262	43	66	103.0	68.64
7	180.00	185.00	560.420	1.00	82	391	1.73	1.70	6	253	261	39	59	101.3	68.64
7	185.00	190.00	563.990	1.00	83	392	1.73	1.70	6	252	259	41	60	103.2	68.68
8	190.00	195.00	567.630	1.10	81	391	1.89	1.90	6	252	261	40	61	103.1	71.99
8	195.00	200.00	571.430	1.10	82	391	1.90	1.90	6	254	259	45	60	104.2	71.99
9	200.00	205.00	575.280	1.10	82	391	1.90	1.90	6	263	263	45	62	101.8	71.99
9	205.00	210.00	579.040	1.10	82	391	1.90	1.90	6	259	261	46	65	104.8	71.99
10	210.00	215.00	582.910	1.10	83	391	1.90	1.90	6	265	261	47	65	101.9	71.99
10	215.00	220.00	586.680	1.10	83	391	1.90	1.90	6	262	261	47	65	104.8	71.99
11	220.00	225.00	590.560	1.10	81	390	1.90	1.90	6	256	259	48	68	101.6	71.94
11	225.00	230.00	594.310	1.10	82	390	1.90	1.90	6	254	259	50	65	105.5	71.94
12	230.00	235.00	598.210	1.10	81	391	1.89	1.90	7	251	257	48	65	103.9	71.99
12	235.00	240.00	602.040	1.10	81	391	1.89	1.90	7	257	263	50	68	100.1	71.99
Final DGM:			605.730												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}	
	240.0	min	165.142	ft ³	0.95	in. WC	80.9	°F	390.8	°F	7	
								1.638	in. WC	100.1	0.175	-0.3

Location: BASF Corporation - McIntosh, AL					Start Time: 8:16		Source: Boiler No. 7				
Date: 6/14/24		Run 7		VALID		End Time: 12:20		Project No.: AST-2024-2594		Parameters: PAH/PCB	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)				MOIST. DATA	
Moisture:	17.0	% est.	Meter Box ID: 8-1 Y: 1.018 ΔH @ (in.WC): 1.847 Probe ID: BR-5-1 Liner Material: glass Pitot ID: BR-5-1 Pitot Cp/Type: 0.800 S-type Nozzle ID: 2594-1 glass Nozzle Dn (in.): 0.248		Est. Tm:	81	°F		Pb:	29.94	in. Hg	Vlc (ml)		1.773	
Barometric:	29.85	in. Hg			Est. Ts:	391	°F		Pg:	0.30	in. WC	810.4			
Static Press:	0.10	in. WC			Est. ΔP:	0.95	in. WC		O ₂ :	3.85	%	K-FACTOR			
Stack Press:	29.86	in. Hg			Est. Dn:	0.237	in.		CO ₂ :	10.15	%				
CO ₂ :	10.2	%			Target Rate:	0.65	scfm				Check Pt.	Initial	Final	Corr.	
O ₂ :	17.0	%			LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)				--
N ₂ /CO:	72.8	%			Leak Rate (cfm):	0.000	--	--	--	0.002	Mid 2 (cf)				--
Md:	30.31	lb/lb-mole			Vacuum (in Hg):	16	--	--	--	10	Mid 3 (cf)				--
Ms:	28.22	lb/lb-mole			Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):				--

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft ³)	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
	Amb.	Amb.					Amb.	Amb.		Amb.	Amb.				
	Begin	End			--	--	--	--		--	--				
B1	0.00	5.00	609.660	0.90	65	365	1.60	1.60	5	254	263	60	63	109.3	64.19
1	5.00	10.00	613.310	0.94	66	387	1.63	1.60	6	251	258	62	64	90.1	66.47
2	10.00	15.00	616.350	0.92	67	387	1.60	1.60	6	253	260	60	62	96.6	65.76
2	15.00	20.00	619.580	0.92	67	387	1.60	1.60	6	254	260	61	63	108.2	65.76
3	20.00	25.00	623.200	0.92	68	387	1.60	1.60	6	260	260	63	60	104.2	65.76
3	25.00	30.00	626.690	0.92	69	388	1.60	1.60	6	260	260	57	61	104.0	65.80
4	30.00	35.00	630.180	0.99	69	392	1.71	1.70	6	258	255	54	59	100.3	68.42
4	35.00	40.00	633.660	1.00	69	379	1.76	1.80	6	261	260	53	58	104.1	68.23
5	40.00	45.00	637.320	1.00	70	392	1.74	1.70	6	256	261	53	60	103.0	68.76
5	45.00	50.00	640.920	1.00	71	392	1.74	1.70	6	252	259	55	62	107.7	68.76
6	50.00	55.00	644.690	1.00	71	392	1.74	1.70	6	254	261	56	65	95.7	68.76
6	55.00	60.00	648.040	1.00	72	392	1.74	1.70	6	257	259	56	64	106.9	68.76
7	60.00	65.00	651.790	1.00	71	392	1.74	1.70	6	259	261	56	63	102.8	68.76
7	65.00	70.00	655.390	1.00	71	392	1.74	1.70	6	261	260	57	64	101.7	68.76
8	70.00	75.00	658.950	1.00	72	392	1.74	1.70	6	254	260	60	64	102.3	68.76
8	75.00	80.00	662.540	1.00	72	392	1.74	1.70	6	253	260	60	62	104.0	68.76
9	80.00	85.00	666.190	1.10	73	392	1.92	1.90	6	254	260	62	62	102.0	72.12
9	85.00	90.00	669.950	1.10	73	392	1.92	1.90	6	253	261	59	61	100.7	72.12
10	90.00	95.00	673.660	1.10	73	392	1.92	1.90	6	259	260	52	60	103.4	72.12
10	95.00	100.00	677.470	1.10	73	392	1.92	1.90	7	260	260	50	59	102.6	72.12
11	100.00	105.00	681.250	1.10	73	392	1.92	1.90	7	249	257	52	62	102.6	72.12
11	105.00	110.00	685.030	1.10	74	392	1.92	1.90	8	258	262	51	67	103.5	72.12
12	110.00	115.00	688.850	1.10	74	392	1.92	1.90	8	250	260	51	61	103.5	72.12
12	115.00	120.00	692.670	1.10	74	391	1.92	1.90	8	254	259	51	59	107.9	72.08
A1	120.00	125.00	696.655	0.75	73	388	1.32	1.30	5	261	253	67	44	102.3	59.41
1	125.00	130.00	699.780	0.75	75	388	1.32	1.30	5	257	262	49	50	104.4	59.41
2	130.00	135.00	702.980	0.79	75	388	1.39	1.40	6	255	257	47	56	105.9	60.97
2	135.00	140.00	706.310	0.79	75	388	1.39	1.40	6	252	262	49	59	106.2	60.97
3	140.00	145.00	709.650	0.80	75	388	1.41	1.40	6	260	260	51	60	107.1	61.36
3	145.00	150.00	713.040	0.80	75	388	1.41	1.40	6	261	259	52	58	108.4	61.36
4	150.00	155.00	716.470	0.85	76	388	1.50	1.50	7	257	261	52	57	100.7	63.25
4	155.00	160.00	719.760	0.85	76	388	1.50	1.50	7	262	257	53	60	99.7	63.25
5	160.00	165.00	723.020	0.91	77	388	1.61	1.60	7	249	260	53	60	105.4	65.44
5	165.00	170.00	726.590	0.91	76	388	1.61	1.60	7	252	260	53	57	107.1	65.44
6	170.00	175.00	730.210	0.95	76	388	1.68	1.70	7	252	260	53	56	105.4	66.86
6	175.00	180.00	733.850	0.95	76	388	1.68	1.70	7	256	259	53	56	106.0	66.86
7	180.00	185.00	737.510	0.98	76	388	1.73	1.70	7	260	261	55	58	103.8	67.91
7	185.00	190.00	741.150	0.98	77	388	1.73	1.70	7	258	261	55	58	101.6	67.91
8	190.00	195.00	744.720	1.00	77	388	1.77	1.80	7	251	259	55	56	106.2	68.60
8	195.00	200.00	748.490	1.00	77	389	1.76	1.80	7	256	261	56	59	103.2	68.64
9	200.00	205.00	752.150	1.10	77	389	1.94	1.90	7	255	261	56	58	100.0	71.99
9	205.00	210.00	755.870	1.10	78	388	1.95	1.90	7	256	259	57	58	101.7	71.95
10	210.00	215.00	759.660	1.10	79	388	1.95	1.90	7	254	260	58	59	102.5	71.95
10	215.00	220.00	763.490	1.10	78	389	1.94	1.90	7	256	260	60	59	102.8	71.99
11	220.00	225.00	767.320	1.10	78	389	1.94	1.90	8	256	260	61	60	102.5	71.99
11	225.00	230.00	771.140	1.10	78	389	1.94	1.90	8	255	261	61	60	101.2	71.99
12	230.00	235.00	774.910	1.10	78	389	1.94	1.90	8	253	260	63	62	102.8	71.99
12	235.00	240.00	778.740	1.10	79	389	1.95	1.90	8	254	259	64	64	101.0	71.99
Final DGM:			782.510												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y _{qa}	
	240.0	min	172.850	ft ³	0.98	in. WC	73.6	°F	388.8	°F	8	
								1.706	in. WC	103.4	0.179	2.8

Stratification Check

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/2024

Traverse Point	Time	O ₂ (%)	CO ₂ (%)
A-1	8:59	3.91	10.13
2	9:01	3.92	10.13
3	9:03	3.95	10.14
Average		3.9	10.1
Criteria Met		Single Point	Single Point

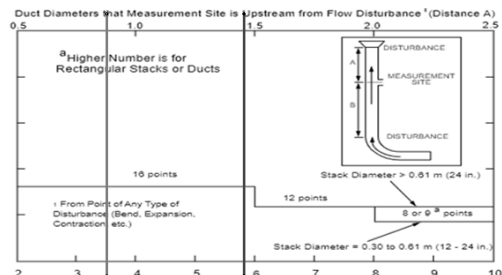
Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594

Response Times, seconds			
Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Zero	50	50	30
Mid	50	50	35

Location **BASF Corporation - McIntosh, AL**
Source **Boiler No. 7**
Project No. **AST-2024-2594**
Date: **06/10/24**

Stack Parameters

Duct Orientation: **Vertical**
Duct Design: **Circular**
Distance from Far Wall to Outside of Port: **52.00 in**
Nipple Length: **6.00 in**
Depth of Duct: **46.00 in**
Cross Sectional Area of Duct: **11.54 ft²**
No. of Test Ports: **2**
Number of Readings per Point: **1**
Distance A: **5.5 ft**
Distance A Duct Diameters: **1.4 (must be ≥ 0.5)**
Distance B: **13.3 ft**
Distance B Duct Diameters: **3.5 (must be ≥ 2)**
Minimum Number of Traverse Points: **16**
Actual Number of Traverse Points: **3**
Measurer (Initial and Date): **MWS 6/10/24**
Reviewer (Initial and Date): **JSL 6/10/24**

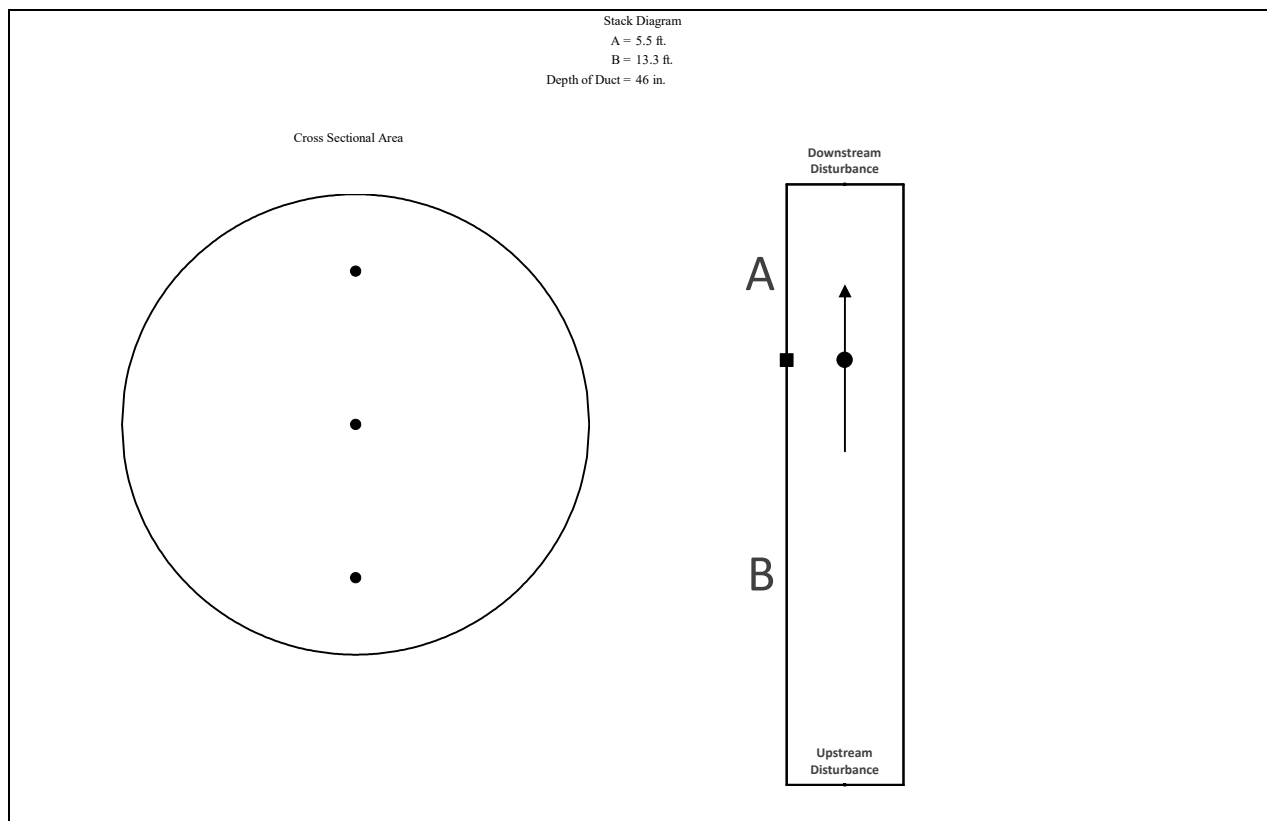


CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS											
	Number of traverse points on a diameter										
	2	3	4	5	6	7	8	9	10	11	12
1	14.6	16.7	6.7	--	4.4	--	3.2	--	2.6	--	2.1
2	85.4	50.0	25.0	--	14.6	--	10.5	--	8.2	--	6.7
3	--	83.3	75.0	--	29.6	--	19.4	--	14.6	--	11.8
4	--	--	93.3	--	70.4	--	32.3	--	22.6	--	17.7
5	--	--	--	--	85.4	--	67.7	--	34.2	--	25.0
6	--	--	--	--	95.6	--	80.6	--	65.8	--	35.6
7	--	--	--	--	--	--	89.5	--	77.4	--	64.4
8	--	--	--	--	--	--	96.8	--	85.4	--	75.0
9	--	--	--	--	--	--	--	--	91.8	--	82.3
10	--	--	--	--	--	--	--	--	97.4	--	88.2
11	--	--	--	--	--	--	--	--	--	--	93.3
12	--	--	--	--	--	--	--	--	--	--	97.9

*Percent of stack diameter from inside wall to traverse point.

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	16.7	7.68	13.68
2	50.0	23.00	29.00
3	83.3	38.32	44.32
4	--	--	--
5	--	--	--
6	--	--	--
7	--	--	--
8	--	--	--
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--



Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C ₀)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
9:20	3.94	10.20	0.01
9:21	3.94	10.20	0.00
9:22	3.92	10.21	0.00
9:23	3.95	10.19	0.00
9:24	3.98	10.18	0.00
9:25	3.91	10.24	0.00
9:26	3.90	10.26	0.00
9:27	3.93	10.25	0.00
9:28	3.95	10.23	0.00
9:29	3.94	10.25	0.00
9:30	3.95	10.26	0.00
9:31	3.94	10.28	0.00
9:32	3.90	10.32	0.00
9:33	3.92	10.31	0.00
9:34	3.93	10.32	0.00
9:35	3.93	10.33	0.00
9:36	3.90	10.35	0.00
9:37	3.91	10.35	0.00
9:38	3.93	10.34	0.00
9:39	3.95	10.33	0.00
9:40	3.90	10.37	0.00
9:41	3.92	10.36	0.00
9:42	3.93	10.35	0.00
9:43	3.94	10.37	0.00
9:44	3.95	10.36	0.00
9:45	3.95	10.36	0.00
9:46	3.93	10.38	0.00
9:47	3.93	10.40	0.01
9:48	3.92	10.42	0.04
9:49	3.94	10.42	0.01
9:50	3.94	10.43	0.01
9:51	3.94	10.46	0.01
9:52	3.96	10.52	0.01
9:53	3.94	10.56	0.01
9:54	3.95	10.57	0.03
9:55	3.93	10.63	0.02
9:56	3.92	10.85	0.03
9:57	3.95	10.20	0.01
9:58	3.95	10.03	0.02
9:59	3.95	10.02	0.01
10:00	3.93	10.03	0.00
10:01	3.91	10.04	0.00
10:02	3.92	10.04	0.01
10:03	3.88	10.06	0.01
10:04	3.90	10.05	0.01
10:05	3.89	10.06	0.01
10:06	3.92	10.04	0.00
10:07	3.92	10.04	0.01

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C ₀)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
10:08	3.89	10.06	0.00
10:09	3.92	10.04	0.00
10:10	3.92	10.04	0.00
10:11	3.91	10.04	0.00
10:12	3.91	10.05	0.00
10:13	3.92	10.04	0.00
10:14	3.89	10.05	0.00
10:15	3.93	10.03	0.00
10:16	3.90	10.05	0.00
10:17	3.91	10.04	0.00
10:18	3.93	10.02	0.00
10:19	3.94	10.03	0.04
10:20	3.91	10.04	
10:21	3.88	10.05	
10:22	3.93	10.01	
10:23	3.90	10.03	
10:24	3.90	10.03	
10:25	3.93	10.02	
10:26	3.93	10.02	
10:27	3.93	10.02	
10:28	3.92	10.02	
10:29	3.93	10.02	
10:30	3.93	10.02	0.00
10:31	3.95	10.01	0.01
10:32	3.92	10.03	0.00
10:33	3.93	10.02	0.00
10:34	3.91	10.03	0.00
10:35	3.98	9.99	0.00
10:36	3.90	10.04	0.00
10:37	3.89	10.04	0.00
10:38	3.91	10.03	0.01
10:39	3.94	10.01	0.02
10:40	3.90	10.03	0.01
10:41	3.92	10.02	0.04
10:42	3.93	10.01	0.04
10:43	3.93	10.01	0.05
10:44	3.93	10.01	0.06
10:45	3.95	10.00	0.07
10:46	3.91	10.02	0.06
10:47	3.93	10.00	0.04
10:48	3.93	10.00	0.06
10:49	3.92	10.01	0.07
10:50	3.91	10.02	0.07
10:51	3.93	10.00	0.07
10:52	3.94	10.00	0.07
10:53	3.93	10.00	0.09
10:54	3.90	10.02	0.16
10:55	3.93	10.00	0.19

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C ₀)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
10:56	3.93	10.00	0.23
10:57	3.93	10.00	0.11
10:58	3.93	10.00	0.07
10:59	3.93	10.00	0.07
11:00	3.96	9.98	0.11
11:01	3.95	9.98	0.08
11:02	3.93	10.00	0.20
11:03	3.91	10.01	0.23
11:04	3.94	9.98	0.26
11:05	3.95	9.98	0.23
11:06	3.95	9.98	0.24
11:07	3.93	9.99	0.18
11:08	3.93	9.99	0.18
11:09	3.94	9.99	0.25
11:10	3.89	10.01	0.27
11:11	3.96	9.97	0.27
11:12	3.91	10.00	0.28
11:13	3.94	9.99	0.26
11:14	3.96	9.98	0.27
11:15	3.96	9.97	0.28
11:16	3.93	9.98	0.21
11:17	3.93	9.98	0.22
11:18	3.96	9.97	0.20
11:19	3.93	9.98	0.17
11:20	3.96	9.96	0.21
11:21	3.96	9.96	0.25
11:22	3.95	9.97	0.23
11:23	3.93	9.98	0.24
11:24	3.95	9.96	0.27
11:25	3.95	9.97	0.28
11:26	3.96	9.96	0.28
11:27	3.95	9.96	0.26
11:28	3.93	9.97	0.25
11:29	3.92	9.98	0.31
11:30	3.96	9.96	
11:31	3.94	9.96	
11:32	3.96	9.95	
11:33	3.95	9.96	
11:34	3.96	9.96	
11:35	3.94	9.97	
11:36	3.95	9.96	
11:37	3.94	9.97	
11:38	3.96	9.96	
11:39	3.95	9.97	
11:40	3.91	9.99	
11:41	3.91	9.99	
11:42	3.93	9.97	
11:43	3.93	9.97	0.22

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C ₀)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
11:44	3.92	9.98	0.24
11:45	3.92	9.98	0.27
11:46	3.94	9.97	0.27
11:47	3.92	9.98	0.24
11:48	3.92	9.98	0.27
11:49	3.95	9.97	0.26
11:50	3.92	9.97	0.24
11:51	3.95	9.96	0.17
11:52	3.92	9.97	0.16
11:53	3.93	9.97	0.17
11:54	3.93	9.96	0.19
11:55	3.94	9.96	0.19
11:56	3.92	9.97	0.19
11:57	3.91	9.98	0.20
11:58	3.88	9.99	0.21
11:59	3.90	9.97	0.22
12:00	3.98	9.92	0.19
12:01	3.90	9.98	0.18
12:02	3.90	9.98	0.16
12:03	3.93	9.96	0.16
12:04	3.96	9.94	0.16
12:05	3.94	9.96	0.16
12:06	3.91	9.97	0.16
12:07	3.93	9.95	0.15
12:08	3.92	9.95	0.13
12:09	3.93	9.95	0.13
12:10	3.90	9.96	0.13
12:11	3.93	9.94	0.12
12:12	3.97	9.92	0.12
12:13	3.91	9.96	0.10
12:14	3.90	9.97	0.16
12:15	3.90	9.97	0.25
12:16	3.93	9.95	0.23
12:17	3.91	9.96	0.18
12:18	3.91	9.96	0.17
12:19	3.92	9.95	0.17
12:20	3.92	9.95	0.16
12:21	3.95	9.93	0.16
12:22	3.91	9.96	0.16
12:23	3.90	9.96	0.25
12:24	3.93	9.94	0.27
12:25	3.95	9.92	0.17
12:26	3.92	9.94	0.16
12:27	3.88	9.96	0.14
12:28	3.92	9.93	0.20
12:29	3.92	9.94	0.18
12:30	3.96	9.91	0.22
12:31	3.93	9.93	0.22

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C ₀)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
12:32	3.93	9.93	0.20
12:33	3.95	9.91	0.21
12:34	3.94	9.92	0.17
12:35	3.90	9.94	0.13
12:36	3.91	9.94	0.15
12:37	3.98	9.89	0.16
12:38	3.92	9.92	0.15
12:39	3.90	9.94	0.20
12:40	3.98	9.89	0.26
12:41	3.89	9.93	0.25
12:42	3.89	9.94	0.25
12:43	3.92	9.92	
12:44	3.92	9.92	
12:45	3.92	9.92	
12:46	3.92	9.92	
12:47	4.00	9.86	
12:48	3.95	9.90	
12:49	4.01	9.87	
12:50	3.97	9.89	
12:51	3.95	9.90	
12:52	3.94	9.90	
12:53	3.94	9.90	
12:54	3.98	9.88	
12:55	3.96	9.89	
12:56	3.98	9.87	
12:57	3.98	9.87	0.13
12:58	3.95	9.89	0.14
12:59	3.95	9.89	0.13
13:00	3.95	9.89	0.13
13:01	3.98	9.88	0.17
13:02	3.97	9.88	0.19
13:03	4.00	9.86	0.14
13:04	3.96	9.88	0.15
13:05	3.94	9.89	0.20
13:06	3.94	9.90	0.17
13:07	3.95	9.89	0.18
13:08	3.96	9.88	0.22
13:09	4.00	9.86	0.25
13:10	3.96	9.89	0.25
13:11	3.97	9.87	0.22
13:12	3.92	9.91	0.17
13:13	3.95	9.89	0.18
13:14	3.96	9.88	0.19
13:15	3.99	9.86	0.17
13:16	4.00	9.86	0.17
13:17	4.01	9.85	0.18
13:18	3.98	9.87	0.17
13:19	3.95	9.89	0.16

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.94	10.02	0.12
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Average Zero Response (C _o)	0.09	0.11	0.02
Pretest System Cal Response	11.08	11.12	12.45
Posttest System Cal Response	11.11	10.89	12.32
Average Cal Response (C _M)	11.10	11.01	12.39
Corrected Run Average (Corr)	3.83	9.97	NA
13:20	3.96	9.87	0.18
13:21	3.97	9.87	0.15
13:22	3.96	9.87	0.22
13:23	3.94	9.89	0.20
13:24	3.99	9.86	0.15
13:25	3.94	9.88	0.20
13:26	3.98	9.87	0.25
13:27	3.97	9.87	0.25
13:28	4.00	9.85	0.26
13:29	3.96	9.87	0.26
13:30	3.98	9.86	0.25

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:20	191.9	1.061	2.0	16.2
9:22	191.8	1.060	2.2	14.5
9:23	191.9	1.066	2.1	17.6
9:24	191.8	1.059	2.2	14.3
9:25	191.7	1.063	2.0	17.3
9:26	191.9	1.060	2.5	15.8
9:27	191.8	1.061	2.5	16.3
9:28	191.7	1.060	2.2	15.0
9:29	191.8	1.064	2.0	17.4
9:30	191.8	1.062	2.0	17.2
9:31	191.8	1.060	1.9	16.0
9:32	191.8	1.060	2.1	14.4
9:33	191.9	1.066	1.4	20.8
9:34	191.9	1.060	2.2	14.6
9:35	191.8	1.061	2.3	15.8
9:36	191.8	1.066	2.1	18.2
9:37	191.9	1.060	2.2	15.1
9:38	191.8	1.060	2.2	14.4
9:39	191.9	1.067	2.0	17.6
9:40	191.9	1.061	2.1	14.5
9:41	191.9	1.069	2.0	17.8
9:42	191.9	1.064	2.5	16.5
9:43	191.9	1.061	2.2	15.0
9:45	191.8	1.061	2.2	14.8
9:46	191.8	1.067	2.1	16.8
9:47	192.0	1.064	2.2	15.3
9:48	191.8	1.063	2.2	14.7
9:49	191.8	1.073	2.1	18.4
9:50	192.0	1.064	2.2	14.9
9:51	191.8	1.063	2.3	14.9
9:52	191.8	1.065	2.3	15.2
9:53	191.8	1.070	2.0	17.5
9:54	192.0	1.063	2.3	15.0
9:55	191.8	1.068	2.1	16.6
9:56	192.0	1.065	2.2	15.4
9:57	191.8	1.063	2.3	14.8
9:58	191.8	1.063	2.2	14.8
9:59	192.0	1.070	2.1	17.4
10:00	191.8	1.062	2.2	14.8
10:01	191.8	1.064	2.3	15.2
10:02	191.9	1.065	2.1	17.0
10:03	191.8	1.061	2.3	14.8
10:04	192.0	1.069	2.2	18.4
10:05	191.9	1.062	2.2	14.8
10:07	191.8	1.068	2.1	17.8
10:08	192.0	1.063	2.3	15.1
10:09	192.0	1.064	2.0	16.5
10:10	191.9	1.062	2.2	14.8
10:11	191.8	1.063	2.3	14.8
10:12	191.9	1.066	1.9	16.7
10:13	191.9	1.068	2.2	17.7
10:14	192.0	1.062	2.3	15.2
10:15	191.8	1.062	2.2	14.8
10:16	192.0	1.069	1.6	19.9
10:17	191.9	1.062	2.2	15.0
10:18	191.8	1.063	2.2	14.9

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:19	191.8	1.069	2.6	15.9
10:32	191.9	1.067	2.1	16.5
10:33	191.8	1.062	2.4	15.6
10:34	191.9	1.063	2.0	17.1
10:35	191.9	1.063	2.2	14.9
10:36	191.9	1.069	2.1	17.4
10:37	191.9	1.062	2.3	15.0
10:38	191.8	1.062	2.3	15.6
10:39	191.8	1.067	2.1	18.4
10:40	192.1	1.062	2.2	15.1
10:41	191.9	1.064	2.0	17.1
10:42	192.0	1.065	2.0	17.3
10:43	192.0	1.062	2.2	14.9
10:44	191.9	1.065	2.5	16.1
10:45	191.9	1.062	2.2	15.0
10:46	191.8	1.061	2.2	14.7
10:47	192.0	1.070	2.2	17.8
10:48	191.9	1.061	2.2	14.8
10:49	191.9	1.063	2.4	15.8
10:51	191.8	1.067	2.1	17.2
10:52	192.1	1.063	2.2	15.1
10:53	192.0	1.065	2.3	16.1
10:54	192.0	1.062	2.3	16.2
10:55	191.9	1.062	2.3	14.9
10:56	192.0	1.067	2.1	17.1
10:57	191.8	1.061	2.2	15.0
10:58	191.8	1.067	2.0	16.4
10:59	192.0	1.064	2.3	16.0
11:00	191.9	1.061	2.2	14.9
11:01	191.9	1.067	2.1	16.8
11:02	192.0	1.062	2.2	14.9
11:03	192.0	1.065	2.2	17.3
11:04	191.9	1.062	2.2	15.0
11:05	191.9	1.065	1.9	16.6
11:06	192.1	1.068	1.5	20.0
11:07	192.0	1.061	2.2	14.9
11:08	191.9	1.061	2.2	15.0
11:09	191.8	1.062	2.2	14.9
11:10	192.0	1.070	2.1	18.6
11:11	192.0	1.062	2.3	15.7
11:13	191.9	1.062	2.2	14.9
11:14	191.8	1.066	2.1	16.7
11:15	192.1	1.064	2.0	16.3
11:16	191.9	1.061	2.2	15.0
11:17	192.1	1.064	2.0	17.9
11:18	192.0	1.061	2.3	14.9
11:19	191.9	1.061	2.3	15.2
11:20	191.8	1.061	2.2	14.8
11:21	192.0	1.069	2.1	18.3
11:22	192.0	1.061	2.3	16.0
11:23	191.9	1.062	2.3	15.3
11:24	191.9	1.064	2.1	16.9
11:25	192.1	1.062	2.0	16.8
11:26	192.0	1.061	2.3	15.2
11:27	191.9	1.061	2.3	14.9

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:28	192.1	1.068	2.2	17.7
11:29	192.0	1.063	2.6	16.2
11:30	192.1	1.063	2.3	15.6
11:31	192.0	1.060	2.2	14.8
11:44	191.9	1.064	2.0	17.8
11:45	191.9	1.061	2.3	15.3
11:46	191.8	1.061	2.4	15.0
11:47	191.8	1.067	2.2	17.2
11:48	192.0	1.061	2.2	15.2
11:49	192.1	1.064	2.1	17.9
11:50	191.9	1.064	2.0	16.9
11:51	192.1	1.062	2.4	16.2
11:52	191.9	1.060	2.3	15.0
11:53	191.9	1.065	2.1	18.4
11:54	192.1	1.061	2.2	15.1
11:55	191.8	1.061	2.3	15.1
11:57	191.8	1.061	2.3	15.0
11:58	191.8	1.066	2.1	17.1
11:59	192.1	1.061	2.2	14.9
12:00	192.0	1.064	2.1	17.7
12:01	192.1	1.062	2.3	15.3
12:02	191.9	1.060	2.2	15.0
12:03	192.0	1.065	1.5	20.0
12:04	192.2	1.063	1.9	16.3
12:05	191.9	1.060	2.3	15.0
12:06	191.9	1.063	1.9	16.7
12:07	192.1	1.064	1.6	16.9
12:08	191.9	1.059	1.8	14.9
12:09	192.0	1.064	1.9	17.0
12:10	192.0	1.059	2.1	14.9
12:11	191.8	1.060	2.2	14.9
12:12	192.0	1.064	2.0	18.1
12:13	192.1	1.062	2.0	17.1
12:14	192.0	1.063	2.0	16.5
12:15	192.0	1.061	2.3	15.6
12:16	192.1	1.068	2.1	18.3
12:17	192.0	1.060	2.3	15.1
12:18	191.9	1.060	2.3	15.2
12:20	191.9	1.060	2.3	15.1
12:21	192.0	1.067	1.5	20.6
12:22	192.1	1.062	2.0	16.8
12:23	192.0	1.062	2.2	15.6
12:24	191.9	1.060	2.2	15.1
12:25	192.0	1.067	2.1	17.2
12:26	191.9	1.060	2.3	15.0
12:27	191.9	1.061	2.2	15.2
12:28	192.0	1.064	2.1	16.9
12:29	191.9	1.060	2.3	15.1
12:30	192.1	1.064	2.1	18.2
12:31	192.1	1.061	2.5	16.5
12:32	192.0	1.060	2.2	15.3
12:33	192.1	1.065	2.1	17.7
12:34	191.9	1.059	2.3	15.0
12:35	191.9	1.060	2.2	15.0
12:36	191.8	1.065	2.1	17.8

Location: BASF Corporation - McIntosh, AL

Source: No. 7 Boiler

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:37	192.1	1.062	1.9	17.5
12:38	192.0	1.061	2.3	15.6
12:39	192.0	1.060	2.3	15.0
12:40	191.8	1.063	2.6	15.6
12:42	192.2	1.066	2.1	17.9
12:43	192.0	1.059	2.2	15.1
12:57	191.7	1.057	2.1	14.1
12:58	191.7	1.058	2.2	14.7
12:59	191.8	1.060	2.3	14.9
13:00	191.8	1.066	2.1	18.6
13:01	192.2	1.061	2.5	16.1
13:03	191.9	1.058	2.2	15.0
13:04	191.8	1.059	2.2	14.9
13:05	191.8	1.066	2.0	18.4
13:06	192.1	1.060	2.2	15.2
13:07	191.9	1.058	2.3	15.2
13:08	191.8	1.059	2.3	15.1
13:09	191.8	1.064	2.2	17.2
13:10	192.2	1.063	2.0	17.9
13:11	192.1	1.060	2.3	15.8
13:12	192.0	1.060	2.3	15.1
13:13	191.9	1.062	2.1	16.5
13:14	192.1	1.062	2.8	17.6
13:15	192.0	1.058	2.3	15.1
13:16	191.9	1.062	2.2	17.6
13:17	192.2	1.060	2.3	15.8
13:18	192.0	1.058	2.3	15.2
13:19	191.9	1.058	2.3	15.1
13:20	192.0	1.064	1.6	19.9
13:21	192.1	1.058	2.3	15.1
13:22	192.0	1.060	2.4	15.9
13:23	191.9	1.060	2.7	17.3
13:25	192.1	1.061	2.0	18.6
13:26	192.1	1.059	2.3	15.1
13:27	191.9	1.059	2.3	15.0
13:28	192.0	1.066	1.5	20.3
13:29	192.1	1.059	2.0	16.3
13:30	192.0	1.058	2.3	15.4
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.9	1.063	2.2	16.1

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C ₀)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
14:11	3.96	9.85	0.26
14:12	3.94	9.87	0.27
14:13	3.95	9.87	0.27
14:14	3.94	9.87	0.20
14:15	3.96	9.85	0.24
14:16	3.94	9.86	0.28
14:17	3.90	9.88	0.27
14:18	3.96	9.84	0.20
14:19	3.99	9.82	0.28
14:20	3.96	9.84	0.30
14:21	3.95	9.85	0.31
14:22	3.98	9.83	0.28
14:23	3.99	9.82	0.21
14:24	3.94	9.85	0.22
14:25	3.94	9.89	0.31
14:26	3.95	9.99	0.28
14:27	3.96	11.40	0.27
14:28	3.98	12.94	0.17
14:29	3.95	13.23	0.25
14:30	4.00	12.52	0.31
14:31	3.97	13.36	0.22
14:32	3.91	11.05	0.17
14:33	3.93	9.98	0.25
14:34	3.97	9.89	0.26
14:35	3.92	9.88	0.26
14:36	3.97	9.84	0.27
14:37	3.95	9.84	0.19
14:38	3.94	9.84	0.16
14:39	3.93	9.84	0.17
14:40	3.94	9.84	0.18
14:41	3.94	9.84	0.16
14:42	3.94	9.84	0.16
14:43	3.99	9.80	0.17
14:44	3.96	9.82	0.28
14:45	3.93	9.84	0.30
14:46	3.89	9.87	0.27
14:47	3.95	9.83	0.27
14:48	3.93	9.84	0.25
14:49	3.92	9.84	0.25
14:50	3.88	9.87	0.19
14:51	3.94	9.84	0.21
14:52	3.95	9.83	0.23
14:53	3.93	9.84	0.21
14:54	3.93	9.84	0.28
14:55	3.94	9.83	0.24
14:56	3.91	9.85	0.23
14:57	3.91	9.86	0.27
14:58	3.96	9.82	0.24

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C ₀)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
14:59	3.94	9.83	0.26
15:00	3.96	9.82	0.28
15:01	3.92	9.84	0.30
15:02	3.92	9.84	0.31
15:03	3.94	9.83	0.29
15:04	3.95	9.82	0.27
15:05	4.00	9.79	0.19
15:06	3.92	9.84	0.24
15:07	3.93	9.83	0.24
15:08	3.91	9.84	0.19
15:09	3.96	9.81	0.23
15:10	3.98	9.80	0.28
15:11	3.97	9.80	
15:12	3.98	9.80	
15:13	3.94	9.82	
15:14	3.96	9.81	
15:15	3.93	9.83	
15:16	3.90	9.84	
15:17	3.93	9.83	
15:18	3.95	9.82	
15:19	3.97	9.81	
15:20	3.94	9.83	
15:21	3.97	9.81	
15:22	4.00	9.80	
15:23	3.96	9.82	
15:24	3.93	9.83	
15:25	3.94	9.83	
15:26	3.98	9.81	
15:27	3.97	9.81	
15:28	3.98	9.81	
15:29	4.00	9.79	
15:30	3.96	9.82	0.13
15:31	3.95	9.82	0.13
15:32	3.95	9.82	0.14
15:33	3.94	9.82	0.16
15:34	3.94	9.83	0.14
15:35	3.94	9.83	0.13
15:36	3.95	9.82	0.15
15:37	3.90	9.85	0.13
15:38	3.93	9.83	0.18
15:39	3.95	9.82	0.19
15:40	3.92	9.84	0.19
15:41	3.95	9.82	0.19
15:42	3.97	9.81	0.16
15:43	3.95	9.82	0.14
15:44	3.97	9.81	0.14
15:45	3.89	9.85	0.13
15:46	3.91	9.85	0.13

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C ₀)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
15:47	3.91	9.84	0.13
15:48	3.93	9.83	0.13
15:49	3.90	9.86	0.13
15:50	3.95	9.82	0.13
15:51	3.95	9.82	0.15
15:52	3.95	9.82	0.14
15:53	3.95	9.82	0.17
15:54	3.99	9.80	0.13
15:55	3.96	9.82	0.10
15:56	3.96	9.82	0.10
15:57	3.97	9.81	0.10
15:58	3.95	9.82	0.13
15:59	3.90	9.85	0.16
16:00	3.96	9.82	0.14
16:01	3.96	9.82	0.13
16:02	3.94	9.83	0.13
16:03	3.96	9.81	0.11
16:04	3.92	9.83	0.13
16:05	3.89	9.85	0.13
16:06	3.90	9.85	0.13
16:07	3.93	9.83	0.15
16:08	3.98	9.81	0.13
16:09	4.00	9.80	0.10
16:10	3.88	9.86	0.10
16:11	3.93	9.83	0.10
16:12	3.94	9.83	0.11
16:13	3.98	9.81	0.11
16:14	3.95	9.82	0.10
16:15	3.95	9.82	0.10
16:16	3.94	9.83	0.11
16:17	3.92	9.84	0.12
16:18	3.94	9.83	0.11
16:19	3.94	9.82	0.11
16:20	3.93	9.83	0.13
16:21	3.95	9.82	0.16
16:22	3.96	9.81	0.18
16:23	3.91	9.83	0.18
16:24	3.95	9.81	0.18
16:25	3.92	9.82	0.13
16:26	3.92	9.83	0.25
16:27	3.94	9.82	0.23
16:28	3.94	9.82	0.10
16:29	3.93	9.82	0.10
16:30	3.90	9.84	
16:31	3.91	9.84	
16:32	3.89	9.85	
16:33	3.94	9.83	
16:34	3.93	9.83	

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C ₀)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
16:35	3.91	9.85	
16:36	3.91	9.85	
16:37	3.97	9.82	
16:38	3.94	9.84	
16:39	3.92	9.84	
16:40	3.96	9.82	
16:41	3.93	9.84	
16:42	3.92	9.84	0.08
16:43	3.94	9.83	0.10
16:44	3.91	9.84	0.10
16:45	3.87	9.87	0.10
16:46	3.90	9.85	0.16
16:47	3.97	9.81	0.18
16:48	3.90	9.85	0.18
16:49	3.91	9.84	0.16
16:50	3.91	9.84	0.11
16:51	3.90	9.85	0.07
16:52	3.88	9.86	0.11
16:53	3.92	9.83	0.12
16:54	3.93	9.83	0.09
16:55	3.94	9.83	0.16
16:56	3.92	9.84	0.14
16:57	3.90	9.85	0.12
16:58	3.91	9.85	0.09
16:59	3.92	9.84	0.18
17:00	3.88	9.86	0.17
17:01	3.90	9.85	0.19
17:02	3.92	9.84	0.16
17:03	3.94	9.82	0.13
17:04	3.90	9.84	0.13
17:05	3.90	9.85	0.17
17:06	3.93	9.83	0.23
17:07	3.94	9.82	0.22
17:08	3.91	9.84	0.21
17:09	3.92	9.84	0.15
17:10	3.92	9.84	0.10
17:11	3.90	9.85	0.11
17:12	3.92	9.84	0.15
17:13	3.90	9.85	0.08
17:14	3.92	9.84	0.10
17:15	3.92	9.84	0.17
17:16	3.93	9.84	0.16
17:17	3.93	9.83	0.13
17:18	3.93	9.83	0.16
17:19	3.91	9.84	0.11
17:20	3.91	9.85	0.08
17:21	3.93	9.83	0.07
17:22	3.94	9.83	0.04

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C ₀)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
17:23	3.90	9.84	0.04
17:24	3.94	9.83	0.04
17:25	3.94	9.83	0.08
17:26	3.93	9.84	0.04
17:27	3.89	9.86	0.05
17:28	3.89	9.86	0.04
17:29	3.90	9.85	0.07
17:30	3.94	9.83	0.13
17:31	3.91	9.85	0.17
17:32	3.91	9.85	0.12
17:33	3.92	9.84	0.06
17:34	3.90	9.85	0.14
17:35	3.96	9.81	0.14
17:36	3.94	9.83	0.12
17:37	3.93	9.83	0.14
17:38	3.91	9.85	0.11
17:39	3.95	9.82	0.10
17:40	3.90	9.85	0.12
17:41	3.90	9.84	0.16
17:42	3.88	9.86	
17:43	3.90	9.85	
17:44	3.92	9.84	
17:45	3.94	9.83	
17:46	3.92	9.84	
17:47	3.93	9.84	
17:48	3.92	9.84	
17:49	3.92	9.85	
17:50	3.91	9.87	
17:51	3.92	9.87	
17:52	3.90	9.89	
17:53	3.87	9.90	0.13
17:54	3.88	9.90	0.06
17:55	3.91	9.88	0.09
17:56	3.90	9.88	0.10
17:57	3.94	9.86	0.07
17:58	3.90	9.88	0.08
17:59	3.88	9.89	0.09
18:00	3.89	9.89	0.15
18:01	3.86	9.90	0.18
18:02	3.87	9.90	0.19
18:03	3.86	9.90	0.19
18:04	3.90	9.88	0.18
18:05	3.87	9.91	0.12
18:06	3.90	9.90	0.10
18:07	3.89	9.91	0.05
18:08	3.92	9.90	0.04
18:09	3.87	9.93	0.06
18:10	3.88	9.91	0.07

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	9.91	0.16
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Average Zero Response (C _o)	0.09	0.07	0.00
Pretest System Cal Response	11.11	10.89	12.32
Posttest System Cal Response	11.11	10.90	12.29
Average Cal Response (C _M)	11.11	10.90	12.31
Corrected Run Average (Corr)	3.82	9.96	NA
18:11	3.86	9.92	0.09
18:12	3.87	9.92	0.09
18:13	3.86	9.93	0.13
18:14	3.88	9.92	0.14
18:15	3.93	9.89	0.16
18:16	3.88	9.92	0.16
18:17	3.88	9.91	0.19
18:18	3.86	9.92	0.17
18:19	3.86	9.92	0.17
18:20	3.90	9.90	0.16
18:21	3.86	9.92	0.16

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:11	191.8	1.061	2.9	17.5
14:12	192.1	1.058	2.5	15.4
14:13	192.2	1.064	1.8	20.2
14:14	192.1	1.057	2.5	15.9
14:15	192.2	1.060	2.8	17.7
14:16	192.0	1.058	2.1	16.2
14:17	192.0	1.058	2.6	15.5
14:18	191.9	1.063	2.3	18.5
14:19	192.1	1.058	2.5	16.4
14:20	191.9	1.063	2.2	18.2
14:21	192.1	1.058	2.5	15.7
14:23	191.9	1.057	2.5	15.6
14:24	192.0	1.061	2.2	18.9
14:25	192.2	1.060	2.2	18.4
14:26	192.0	1.057	2.6	15.6
14:27	191.9	1.057	2.6	15.7
14:28	191.9	1.059	2.5	15.6
14:29	192.0	1.063	2.2	18.1
14:30	192.1	1.061	2.2	19.2
14:31	192.1	1.057	2.5	16.2
14:32	192.0	1.059	2.7	16.9
14:33	192.0	1.065	1.8	21.5
14:34	192.2	1.060	2.6	15.8
14:35	192.0	1.057	2.5	15.7
14:36	192.0	1.057	2.7	17.0
14:37	192.1	1.061	2.2	18.5
14:38	192.1	1.056	2.6	16.5
14:39	191.9	1.059	2.7	17.1
14:40	192.0	1.057	2.2	17.6
14:41	192.0	1.058	2.1	15.9
14:42	192.2	1.062	1.6	21.0
14:43	192.0	1.057	2.5	16.2
14:45	191.9	1.056	2.5	15.8
14:46	191.9	1.056	2.6	15.7
14:47	191.8	1.061	2.3	17.9
14:48	192.1	1.057	2.4	15.6
14:49	191.8	1.058	2.6	16.0
14:50	192.1	1.063	1.6	21.4
14:51	192.1	1.058	2.1	16.7
14:52	192.0	1.057	2.6	16.0
14:53	191.9	1.058	2.5	15.8
14:54	192.0	1.063	1.8	21.5
14:55	192.1	1.059	1.8	18.2
14:56	192.1	1.060	2.3	17.8
14:57	192.0	1.060	2.2	17.4
14:58	192.0	1.056	2.2	15.9
14:59	191.9	1.057	2.5	15.8
15:00	192.1	1.061	2.2	18.8
15:01	192.1	1.059	2.3	17.7
15:02	192.0	1.058	2.6	16.5
15:03	191.9	1.060	1.7	20.0
15:04	192.2	1.059	2.1	16.7
15:05	191.9	1.057	2.5	15.9
15:07	191.9	1.058	2.5	15.8
15:08	191.8	1.058	2.6	15.8
15:09	191.9	1.062	2.1	18.6

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:10	192.1	1.062	2.1	21.0
15:30	191.8	1.052	2.4	14.6
15:31	191.8	1.054	2.5	15.2
15:32	191.8	1.055	2.6	15.3
15:33	191.7	1.056	2.5	15.5
15:34	191.8	1.060	2.3	18.9
15:35	192.0	1.057	2.1	17.8
15:36	191.9	1.056	2.2	16.6
15:37	191.8	1.054	2.5	15.8
15:38	191.9	1.058	2.8	17.6
15:39	192.0	1.057	2.2	17.6
15:40	191.9	1.055	2.3	17.0
15:41	191.9	1.059	2.1	18.0
15:42	192.0	1.056	2.1	17.9
15:43	192.0	1.061	1.6	21.0
15:44	192.0	1.056	2.1	17.5
15:45	192.0	1.056	2.2	16.6
15:46	191.8	1.056	2.5	15.8
15:47	191.8	1.056	2.6	15.8
15:48	192.1	1.064	1.7	21.1
15:49	192.0	1.055	2.5	15.9
15:51	191.8	1.055	2.6	15.9
15:52	191.9	1.058	2.8	17.3
15:53	192.0	1.055	2.1	16.6
15:54	192.0	1.059	1.6	20.8
15:55	192.0	1.055	2.1	16.9
15:56	191.9	1.055	2.2	16.1
15:57	191.9	1.058	2.2	18.7
15:58	192.1	1.058	2.2	17.9
15:59	192.0	1.055	2.6	15.9
16:00	192.0	1.060	1.7	20.0
16:01	192.0	1.057	2.1	17.0
16:02	191.9	1.054	2.7	16.1
16:03	191.8	1.054	2.5	15.7
16:04	191.8	1.057	2.7	17.3
16:05	191.9	1.056	2.2	17.8
16:06	192.0	1.059	1.5	20.9
16:07	192.1	1.058	1.8	18.6
16:08	192.0	1.056	2.1	16.8
16:09	191.9	1.055	2.1	15.9
16:10	191.9	1.057	2.8	17.8
16:11	192.0	1.059	1.6	21.6
16:12	192.1	1.058	1.7	19.5
16:14	192.0	1.055	2.1	16.9
16:15	192.0	1.055	2.6	15.9
16:16	191.9	1.055	2.6	15.6
16:17	191.9	1.059	2.2	18.3
16:18	192.1	1.056	2.1	18.6
16:19	192.1	1.056	2.2	18.5
16:20	192.0	1.055	2.1	16.9
16:21	192.0	1.060	2.3	18.1
16:22	192.2	1.057	2.1	18.3
16:23	192.1	1.055	2.6	16.6
16:24	192.1	1.055	2.2	18.9
16:25	192.1	1.055	2.2	17.7

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:26	192.0	1.056	2.1	16.6
16:27	192.0	1.058	2.6	16.6
16:28	192.0	1.057	2.2	17.9
16:29	192.0	1.057	2.5	16.2
16:42	191.8	1.054	2.5	15.4
16:43	191.7	1.056	2.2	18.0
16:44	192.1	1.058	2.2	16.9
16:45	192.0	1.056	2.1	16.5
16:46	191.9	1.055	2.4	15.6
16:47	191.8	1.056	2.5	15.5
16:48	191.8	1.060	2.8	16.9
16:49	192.1	1.061	1.5	21.5
16:50	192.1	1.055	1.8	18.0
16:51	192.0	1.055	2.3	17.4
16:52	192.0	1.059	2.2	18.5
16:53	192.1	1.055	2.2	18.0
16:54	192.0	1.054	2.6	16.5
16:55	191.9	1.056	2.2	18.4
16:57	192.1	1.057	2.1	18.2
16:58	192.0	1.057	2.7	16.7
16:59	191.9	1.055	2.1	15.7
17:00	191.9	1.061	2.2	17.9
17:01	192.1	1.057	2.1	20.2
17:02	192.1	1.055	1.9	18.1
17:03	192.0	1.054	2.5	16.1
17:04	191.9	1.055	2.5	15.5
17:05	192.0	1.057	2.1	18.0
17:06	191.9	1.053	2.5	15.3
17:07	191.9	1.060	2.2	18.4
17:08	192.1	1.055	2.2	17.4
17:09	192.0	1.053	2.1	17.0
17:10	192.1	1.056	2.1	18.8
17:11	192.0	1.057	2.2	16.9
17:12	192.1	1.057	1.6	20.3
17:13	192.1	1.054	2.2	16.9
17:14	192.0	1.054	2.2	16.1
17:15	191.9	1.055	2.6	15.5
17:16	192.1	1.062	1.5	20.8
17:17	192.0	1.054	2.1	16.8
17:19	192.1	1.057	1.6	20.7
17:20	192.1	1.054	2.1	16.6
17:21	191.9	1.054	2.7	15.9
17:22	191.8	1.055	2.5	15.6
17:23	191.8	1.055	2.5	15.7
17:24	192.0	1.065	1.8	20.5
17:25	192.1	1.055	2.6	15.7
17:26	191.9	1.053	2.6	15.7
17:27	192.1	1.056	2.8	17.8
17:28	192.0	1.052	2.1	15.9
17:29	191.9	1.054	2.6	16.6
17:30	191.9	1.055	2.8	17.7
17:31	192.0	1.057	2.2	18.6
17:32	192.0	1.059	2.1	17.0
17:33	192.2	1.056	2.3	18.1
17:34	191.9	1.053	2.7	16.4

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
17:35	191.9	1.054	2.6	16.2
17:36	191.8	1.055	2.7	16.3
17:37	191.8	1.055	2.6	16.2
17:38	191.8	1.055	2.6	16.3
17:39	191.8	1.057	2.1	18.6
17:41	192.0	1.055	2.1	17.8
17:52	191.8	1.051	2.5	15.5
17:53	191.8	1.053	2.5	15.9
17:54	191.8	1.054	2.6	16.1
17:55	191.8	1.054	2.6	16.2
17:56	191.8	1.054	2.5	16.3
17:57	191.9	1.055	2.2	18.7
17:58	191.9	1.058	2.2	17.5
17:59	191.9	1.055	2.3	18.6
18:00	192.0	1.053	2.2	17.6
18:02	191.9	1.054	2.2	16.7
18:03	191.8	1.052	2.2	16.6
18:04	191.8	1.053	2.6	16.4
18:05	191.8	1.054	2.7	17.6
18:06	192.0	1.056	1.7	20.7
18:07	192.1	1.056	1.8	19.5
18:08	192.0	1.054	2.2	17.2
18:09	192.0	1.058	1.6	21.7
18:10	192.0	1.055	1.8	18.3
18:11	192.0	1.054	2.1	17.1
18:12	191.9	1.056	2.1	16.6
18:13	191.8	1.053	2.7	17.1
18:14	191.9	1.054	2.2	17.8
18:15	191.9	1.055	2.1	16.9
18:16	191.9	1.054	2.1	16.4
18:17	192.0	1.063	1.5	21.2
18:18	192.1	1.054	2.2	17.3
18:19	191.9	1.053	2.2	16.7
18:20	191.9	1.053	2.6	16.3
18:21	191.9	1.054	2.5	16.1
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	192.0	1.057	2.3	17.3

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C ₀)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
8:40	3.86	10.02	0.00
8:41	3.86	10.02	0.00
8:42	3.87	10.01	0.00
8:43	3.87	10.02	0.00
8:44	3.87	10.02	0.00
8:45	3.87	10.02	0.00
8:46	3.86	10.02	0.00
8:47	3.82	10.04	0.00
8:48	3.85	10.03	0.00
8:49	3.84	10.03	0.00
8:50	3.84	10.03	0.00
8:51	3.85	10.03	0.01
8:52	3.87	10.01	0.04
8:53	3.86	10.02	0.00
8:54	3.82	10.04	0.00
8:55	3.86	10.02	0.00
8:56	3.83	10.04	0.00
8:57	3.88	10.00	0.01
8:58	3.85	10.01	0.00
8:59	3.84	10.02	0.00
9:00	3.87	10.00	0.00
9:01	3.90	9.98	0.00
9:02	3.85	10.01	0.00
9:03	3.87	10.00	0.00
9:04	3.85	10.01	0.00
9:05	3.87	10.00	0.00
9:06	3.84	10.02	0.00
9:07	3.86	10.01	0.00
9:08	3.86	10.01	0.00
9:09	3.86	10.00	0.02
9:10	3.83	10.02	0.08
9:11	3.86	10.00	0.02
9:12	3.85	10.00	0.01
9:13	3.86	10.00	0.01
9:14	3.87	9.99	0.00
9:15	3.88	9.99	0.00
9:16	3.87	9.99	0.00
9:17	3.87	9.99	0.00
9:18	3.88	9.98	0.00
9:19	3.86	10.00	0.00
9:20	3.88	9.98	0.00
9:21	3.84	10.01	0.01
9:22	3.88	9.98	0.02
9:23	3.88	9.99	0.06
9:24	3.88	9.98	0.08
9:25	3.85	10.00	0.02
9:26	3.85	10.00	0.00
9:27	3.85	9.99	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C ₀)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
9:28	3.87	9.98	0.00
9:29	3.85	9.99	0.00
9:30	3.87	9.97	0.00
9:31	3.88	9.97	0.00
9:32	3.89	9.97	0.00
9:33	3.88	9.98	0.00
9:34	3.91	9.96	0.00
9:35	3.87	9.98	0.00
9:36	3.84	10.00	0.00
9:37	3.85	9.99	0.00
9:38	3.87	9.98	0.00
9:39	3.85	10.00	0.00
9:40	3.86	9.99	
9:41	3.90	9.96	
9:42	3.82	10.01	
9:43	3.87	9.99	
9:44	3.89	10.02	
9:45	3.83	9.98	
9:46	3.87	9.95	
9:47	3.86	9.97	
9:48	3.88	9.96	
9:49	3.89	9.96	
9:50	3.87	9.96	
9:51	3.87	9.97	
9:52	3.87	9.97	
9:53	3.88	9.96	
9:54	3.88	9.97	
9:55	3.91	9.95	
9:56	3.91	9.95	0.00
9:57	3.92	9.94	0.00
9:58	3.86	9.97	0.00
9:59	3.83	9.99	0.00
10:00	3.87	9.97	0.04
10:01	3.86	9.98	0.05
10:02	3.89	9.96	0.11
10:03	3.89	9.96	0.08
10:04	3.88	9.96	0.07
10:05	3.92	9.94	0.08
10:06	3.91	9.95	0.00
10:07	3.89	9.96	0.00
10:08	3.89	9.96	0.00
10:09	3.93	9.93	0.05
10:10	3.86	9.97	0.08
10:11	3.87	9.97	0.06
10:12	3.90	9.95	0.01
10:13	3.90	9.95	0.05
10:14	3.91	9.94	0.04
10:15	3.90	9.94	0.01

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C ₀)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
10:16	3.88	9.95	0.00
10:17	3.88	9.95	0.00
10:18	3.87	9.95	0.00
10:19	3.87	9.95	0.00
10:20	3.86	9.96	0.00
10:21	3.89	9.94	0.00
10:22	3.88	9.95	0.02
10:23	3.87	9.95	0.03
10:24	3.83	9.97	0.03
10:25	3.86	9.96	0.13
10:26	3.84	9.98	0.10
10:27	3.87	9.96	0.03
10:28	3.86	9.96	0.01
10:29	3.90	9.94	0.02
10:30	3.83	9.98	0.04
10:31	3.87	9.95	0.03
10:32	3.86	9.96	0.00
10:33	3.84	9.97	0.00
10:34	3.89	9.93	0.00
10:35	3.91	9.92	0.00
10:36	3.86	9.95	0.00
10:37	3.87	9.95	0.00
10:38	3.87	9.94	0.00
10:39	3.86	9.95	0.00
10:40	3.86	9.94	0.00
10:41	3.85	9.95	0.00
10:42	3.82	9.97	0.00
10:43	3.84	9.96	0.00
10:44	3.85	9.94	0.00
10:45	3.87	9.93	0.00
10:46	3.83	9.96	0.00
10:47	3.82	9.96	0.00
10:48	3.95	9.88	0.00
10:49	3.88	9.92	0.00
10:50	3.86	9.93	0.00
10:51	3.90	9.91	0.00
10:52	3.87	9.93	0.00
10:53	3.86	9.94	0.00
10:54	3.86	9.94	0.00
10:55	3.85	9.94	0.00
10:56	3.91	9.90	
10:57	3.87	9.93	
10:58	3.88	9.92	
10:59	3.89	9.91	
11:00	3.88	9.92	
11:01	3.89	9.91	
11:02	3.86	9.93	
11:03	3.88	9.92	

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C ₀)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
11:04	3.89	9.92	
11:05	3.87	9.92	
11:06	3.86	9.93	
11:07	3.91	9.90	
11:08	3.91	9.90	
11:09	3.87	9.92	0.00
11:10	3.91	9.90	0.00
11:11	3.91	9.90	0.00
11:12	3.87	9.92	0.00
11:13	3.87	9.92	0.00
11:14	3.88	9.91	0.00
11:15	3.83	9.95	0.00
11:16	3.89	9.91	0.00
11:17	3.84	9.93	0.00
11:18	3.86	9.92	0.00
11:19	3.89	9.91	0.00
11:20	3.83	9.94	0.00
11:21	3.91	9.89	0.00
11:22	3.80	9.95	0.00
11:23	3.84	9.93	0.00
11:24	3.92	9.88	0.00
11:25	3.88	9.91	0.00
11:26	3.93	9.88	0.00
11:27	3.86	9.92	0.00
11:28	3.87	9.91	0.00
11:29	3.90	9.89	0.00
11:30	3.96	9.86	0.00
11:31	3.86	9.92	0.00
11:32	3.88	9.91	0.00
11:33	3.90	9.90	0.00
11:34	3.88	9.91	0.00
11:35	3.86	9.93	0.00
11:36	3.89	9.91	0.00
11:37	3.83	9.94	0.00
11:38	3.85	9.92	0.00
11:39	3.92	9.89	0.00
11:40	3.91	9.89	0.00
11:41	3.89	9.90	0.00
11:42	3.87	9.91	0.00
11:43	3.88	9.90	0.00
11:44	3.89	9.89	0.00
11:45	3.87	9.90	0.00
11:46	3.92	9.87	0.00
11:47	3.89	9.89	0.00
11:48	3.85	9.92	0.00
11:49	3.87	9.91	0.00
11:50	3.86	9.91	0.00
11:51	3.91	9.89	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C ₀)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
11:52	3.88	9.90	0.00
11:53	3.89	9.90	0.00
11:54	3.89	9.90	0.00
11:55	3.85	9.91	0.00
11:56	3.79	9.95	0.00
11:57	3.89	9.89	0.00
11:58	3.91	9.88	0.00
11:59	3.91	9.88	0.00
12:00	3.85	9.91	0.00
12:01	3.87	9.91	0.00
12:02	3.88	9.90	0.00
12:03	3.89	9.89	0.00
12:04	3.92	9.88	0.00
12:05	3.86	9.91	0.00
12:06	3.88	9.90	0.00
12:07	3.87	9.90	0.00
12:08	3.85	9.91	0.00
12:09	3.87	9.90	
12:10	3.92	9.87	
12:11	3.86	9.91	
12:12	3.89	9.89	
12:13	3.90	9.88	
12:14	3.89	9.89	
12:15	3.92	9.88	
12:16	3.86	9.91	
12:17	3.89	9.89	
12:18	3.92	9.87	
12:19	3.85	9.91	
12:20	3.87	9.89	
12:21	3.85	9.91	
12:22	3.86	9.90	
12:23	3.86	9.90	
12:24	3.87	9.89	
12:25	3.88	9.89	
12:26	3.90	9.88	0.00
12:27	3.91	9.87	0.00
12:28	3.87	9.89	0.00
12:29	3.87	9.89	0.00
12:30	3.90	9.88	0.00
12:31	3.87	9.89	0.00
12:32	3.87	9.89	0.00
12:33	3.87	9.90	0.00
12:34	3.83	9.92	0.00
12:35	3.85	9.91	0.00
12:36	3.93	9.87	0.00
12:37	3.88	9.89	0.03
12:38	3.82	9.93	0.05
12:39	3.88	9.89	0.03

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.94	0.01
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Average Zero Response (C _o)	0.07	0.11	0.01
Pretest System Cal Response	11.14	11.05	12.46
Posttest System Cal Response	11.11	10.84	12.56
Average Cal Response (C _M)	11.13	10.95	12.51
Corrected Run Average (Corr)	3.78	9.95	NA
12:40	3.89	9.89	0.01
12:41	3.88	9.89	0.00
12:42	3.88	9.89	0.02
12:43	3.89	9.88	0.03
12:44	3.87	9.90	0.02
12:45	3.86	9.90	0.00
12:46	3.88	9.89	0.01
12:47	3.87	9.90	0.01
12:48	3.87	9.90	0.01
12:49	3.85	9.91	0.01
12:50	3.89	9.89	0.01
12:51	3.89	9.88	0.02

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:40	191.8	1.071	1.8	20.4
8:41	192.1	1.061	2.5	16.3
8:42	191.8	1.059	2.4	15.5
8:43	191.9	1.062	2.6	17.4
8:44	191.9	1.061	1.7	19.6
8:46	192.0	1.063	2.0	17.3
8:47	191.9	1.061	2.0	16.8
8:48	191.8	1.060	2.0	16.5
8:49	191.8	1.065	2.0	18.5
8:50	192.0	1.061	2.0	17.6
8:51	191.9	1.060	2.0	16.8
8:52	191.8	1.060	2.0	16.1
8:53	191.8	1.064	2.0	18.5
8:54	191.9	1.066	2.2	19.5
8:55	192.2	1.061	2.5	16.3
8:56	191.9	1.059	2.4	15.8
8:57	191.7	1.059	2.4	15.7
8:58	191.8	1.060	2.4	15.6
8:59	191.7	1.067	2.0	18.0
9:00	192.1	1.062	1.9	19.3
9:01	192.0	1.061	2.0	17.2
9:02	191.9	1.060	2.0	17.0
9:03	191.9	1.062	2.0	16.9
9:04	191.8	1.064	1.9	16.6
9:05	191.8	1.063	2.0	17.7
9:06	191.9	1.063	1.5	20.1
9:08	192.1	1.062	1.5	20.9
9:09	192.0	1.061	2.0	17.5
9:10	191.9	1.060	2.0	16.3
9:11	191.8	1.061	2.4	15.7
9:12	191.7	1.061	2.5	16.7
9:13	192.1	1.066	1.5	21.5
9:14	192.0	1.061	1.6	18.1
9:15	191.9	1.060	2.0	16.8
9:16	191.9	1.060	2.0	18.1
9:17	192.0	1.063	2.0	17.5
9:18	191.8	1.065	2.0	16.4
9:19	191.8	1.061	2.6	17.8
9:20	191.9	1.060	2.0	18.7
9:21	191.9	1.063	1.9	17.0
9:22	192.0	1.061	1.5	20.0
9:23	191.9	1.062	2.0	17.1
9:24	191.8	1.063	2.1	17.8
9:25	192.0	1.061	1.9	19.2
9:26	192.0	1.061	2.0	17.5
9:27	192.0	1.064	1.6	19.9
9:28	191.9	1.063	1.6	18.1
9:30	191.8	1.061	2.4	16.5
9:31	191.8	1.061	2.5	16.1
9:32	191.9	1.064	1.3	21.9
9:33	192.0	1.061	1.9	18.4
9:34	192.0	1.061	2.0	16.7
9:35	191.8	1.062	1.9	15.8
9:36	191.7	1.062	2.0	18.3
9:37	192.0	1.061	1.9	19.2
9:38	192.0	1.060	1.6	18.2

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:39	191.8	1.063	1.9	17.6
9:56	191.7	1.053	2.2	14.3
9:57	191.7	1.056	2.3	15.2
9:58	191.7	1.058	2.4	15.6
9:59	191.7	1.062	2.0	18.0
10:00	191.9	1.059	1.9	18.9
10:01	191.8	1.060	2.0	17.4
10:02	191.9	1.062	1.9	18.7
10:03	191.9	1.061	2.0	19.0
10:04	191.9	1.060	1.9	18.1
10:05	191.9	1.058	1.9	17.2
10:06	191.9	1.062	1.9	17.5
10:07	191.8	1.057	2.0	16.5
10:08	192.0	1.062	1.4	21.6
10:09	192.0	1.060	1.5	19.6
10:10	191.9	1.060	2.0	17.2
10:11	191.8	1.059	2.0	16.4
10:12	191.7	1.063	2.5	17.3
10:14	192.0	1.063	1.3	21.0
10:15	192.0	1.062	1.6	18.8
10:16	191.9	1.059	2.4	16.3
10:17	191.8	1.059	2.4	15.9
10:18	191.7	1.059	2.1	18.8
10:19	192.0	1.061	2.0	19.7
10:20	192.0	1.059	2.0	17.5
10:21	191.9	1.060	2.0	17.2
10:22	191.8	1.060	2.0	16.0
10:23	191.9	1.059	2.0	18.1
10:24	191.9	1.059	1.9	17.8
10:25	192.0	1.063	1.9	19.2
10:26	191.9	1.059	1.9	17.5
10:27	191.9	1.061	1.4	20.8
10:28	192.0	1.062	1.5	19.3
10:29	191.9	1.060	1.9	17.3
10:30	191.8	1.059	1.9	16.3
10:31	191.7	1.057	2.4	15.8
10:32	191.7	1.058	2.5	17.5
10:33	191.8	1.061	1.4	20.1
10:34	192.0	1.061	1.3	20.3
10:35	191.9	1.061	1.6	19.3
10:37	191.9	1.059	1.6	18.0
10:38	191.8	1.060	1.9	16.7
10:39	191.8	1.059	2.0	16.1
10:40	191.9	1.061	1.4	21.6
10:41	191.9	1.059	1.6	19.2
10:42	191.9	1.059	1.9	17.3
10:43	191.8	1.059	2.0	16.5
10:44	191.8	1.060	2.5	17.7
10:45	191.9	1.062	2.0	18.4
10:46	192.0	1.061	2.0	19.9
10:47	192.0	1.061	1.5	19.2
10:48	191.9	1.057	2.0	16.8
10:49	191.8	1.058	2.0	18.0
10:50	191.9	1.058	2.0	16.8
10:51	191.7	1.060	2.0	16.1

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:52	191.8	1.061	1.4	20.8
10:53	192.0	1.061	1.5	20.5
10:54	192.0	1.058	1.6	17.9
10:55	191.9	1.065	2.4	16.0
11:09	191.7	1.056	2.4	15.4
11:10	191.7	1.058	2.4	15.7
11:11	191.9	1.064	1.4	21.7
11:12	191.9	1.057	2.4	15.8
11:13	191.8	1.058	2.6	17.7
11:14	191.8	1.057	2.0	16.2
11:15	191.9	1.056	2.0	18.2
11:16	191.8	1.059	2.0	18.3
11:17	192.0	1.060	2.0	19.3
11:18	191.9	1.058	1.6	17.9
11:20	191.8	1.058	2.4	16.5
11:21	191.9	1.060	2.5	17.2
11:22	191.9	1.064	1.4	21.0
11:23	191.9	1.060	1.5	19.5
11:24	191.9	1.058	1.7	18.6
11:25	191.9	1.057	2.0	16.9
11:26	191.8	1.059	2.0	18.1
11:27	191.9	1.060	2.3	15.9
11:28	191.8	1.055	2.4	15.9
11:29	191.8	1.060	1.4	20.8
11:30	192.0	1.059	1.5	20.0
11:31	192.0	1.061	1.6	19.7
11:32	192.0	1.059	1.6	19.3
11:33	192.0	1.060	2.0	17.3
11:34	191.9	1.058	1.9	16.4
11:35	192.0	1.061	1.1	24.5
11:36	192.2	1.059	2.4	16.3
11:37	191.9	1.058	2.4	15.8
11:38	191.8	1.057	2.4	15.8
11:39	191.8	1.059	2.4	15.8
11:40	191.8	1.059	2.4	15.8
11:42	191.9	1.060	1.2	21.4
11:43	192.0	1.059	1.6	20.0
11:44	191.9	1.060	1.6	17.9
11:45	191.9	1.057	2.4	16.5
11:46	191.9	1.061	1.4	20.0
11:47	192.0	1.058	1.6	18.3
11:48	192.0	1.060	2.0	19.7
11:49	192.0	1.059	1.6	18.2
11:50	191.9	1.056	2.4	16.7
11:51	191.8	1.058	2.0	18.0
11:52	192.0	1.060	2.1	18.9
11:53	191.9	1.058	2.0	17.2
11:54	191.9	1.055	2.0	16.4
11:55	191.8	1.057	2.5	17.1
11:56	192.0	1.058	2.0	18.9
11:57	191.9	1.063	2.0	20.3
11:58	192.2	1.059	1.6	19.0
11:59	191.9	1.055	2.4	16.6
12:00	191.9	1.057	2.5	16.5
12:01	191.8	1.056	2.5	16.8

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:02	191.9	1.058	1.5	19.7
12:04	191.9	1.057	1.7	18.2
12:05	191.9	1.055	2.4	16.6
12:06	192.0	1.061	1.4	22.0
12:07	192.0	1.059	1.9	18.6
12:08	191.9	1.056	2.0	17.3
12:26	191.7	1.050	2.3	14.6
12:27	191.7	1.053	2.3	15.3
12:28	191.7	1.054	2.3	15.6
12:29	191.6	1.055	2.4	15.7
12:30	191.7	1.062	1.5	21.2
12:31	192.0	1.058	1.5	19.7
12:32	192.0	1.056	1.6	18.7
12:33	191.9	1.056	2.0	18.1
12:34	191.9	1.059	1.9	18.5
12:35	191.9	1.057	1.9	17.8
12:36	191.9	1.055	2.0	17.4
12:37	191.9	1.057	2.0	17.3
12:38	191.8	1.054	2.0	16.4
12:39	191.7	1.054	2.4	16.0
12:40	191.9	1.061	1.0	24.7
12:41	192.3	1.059	2.1	18.7
12:42	191.9	1.055	2.4	16.0
12:43	191.8	1.054	2.4	16.0
12:44	191.8	1.055	2.4	15.9
12:45	191.7	1.057	2.3	15.8
12:46	191.8	1.060	1.4	21.7
12:48	192.3	1.059	1.5	22.1
12:49	192.0	1.055	2.4	16.1
12:50	191.9	1.054	2.4	15.9
12:51	191.8	1.054	2.4	15.9
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.9	1.060	2.0	17.9

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
13:30	3.79	9.90	0.22
13:31	3.86	9.86	0.22
13:32	3.83	9.88	0.20
13:33	3.83	9.87	0.19
13:34	3.85	9.86	0.19
13:35	3.87	10.06	0.19
13:36	3.90	9.86	0.19
13:37	3.87	9.85	0.19
13:38	3.86	9.85	0.19
13:39	3.88	9.84	0.15
13:40	3.87	9.84	0.00
13:41	3.89	9.83	0.00
13:42	3.88	9.83	0.00
13:43	3.86	9.84	0.00
13:44	3.87	9.83	0.00
13:45	3.87	9.84	0.01
13:46	3.89	9.82	0.01
13:47	3.84	9.85	0.02
13:48	3.84	9.85	0.01
13:49	3.88	9.83	0.00
13:50	3.83	9.86	0.02
13:51	3.84	9.85	0.03
13:52	3.87	9.84	0.02
13:53	3.86	9.84	0.01
13:54	3.91	9.81	0.02
13:55	3.87	9.83	0.04
13:56	3.90	9.82	0.04
13:57	3.86	9.84	0.04
13:58	3.85	9.84	0.05
13:59	3.82	9.86	0.05
14:00	3.88	9.87	0.03
14:01	3.84	9.96	0.02
14:02	3.83	9.85	0.03
14:03	3.85	9.84	0.04
14:04	3.86	10.00	0.03
14:05	3.83	9.84	0.01
14:06	3.87	9.82	0.01
14:07	3.85	9.83	0.03
14:08	3.84	9.83	0.04
14:09	3.87	9.81	0.02
14:10	3.88	9.81	0.01
14:11	3.80	9.85	0.01
14:12	3.87	9.81	0.01
14:13	3.87	10.03	0.00
14:14	3.86	9.85	0.00
14:15	3.90	9.79	0.00
14:16	3.88	9.80	0.00
14:17	3.83	9.83	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
14:18	3.86	9.80	0.00
14:19	3.84	9.82	0.00
14:20	3.80	9.84	0.00
14:21	3.86	9.81	0.00
14:22	3.84	9.82	0.00
14:23	3.87	9.80	0.00
14:24	3.87	9.80	0.00
14:25	3.86	9.81	0.00
14:26	3.85	9.81	0.00
14:27	3.86	9.81	0.00
14:28	3.86	9.80	0.00
14:29	3.83	9.82	0.00
14:30	3.90	9.77	
14:31	3.89	9.78	
14:32	3.87	9.79	
14:33	3.86	9.80	
14:34	3.81	9.83	
14:35	3.83	9.82	
14:36	3.90	10.08	
14:37	3.87	9.79	
14:38	3.81	9.82	
14:39	3.83	9.81	
14:40	3.82	9.81	
14:41	3.86	9.79	
14:42	3.85	9.80	
14:43	3.90	9.77	
14:44	3.88	9.78	
14:45	3.85	10.12	0.00
14:46	3.81	9.90	0.00
14:47	3.84	9.80	0.05
14:48	3.88	9.77	0.04
14:49	3.88	9.77	0.04
14:50	3.87	9.78	0.04
14:51	3.83	9.80	0.04
14:52	3.84	9.79	0.04
14:53	3.88	9.77	0.04
14:54	3.87	9.77	0.04
14:55	3.84	9.79	0.03
14:56	3.89	9.76	0.04
14:57	3.90	9.76	0.02
14:58	3.86	9.77	0.01
14:59	3.87	9.78	0.01
15:00	3.88	9.77	0.00
15:01	3.84	9.79	0.00
15:02	3.84	9.79	0.00
15:03	3.88	9.76	0.00
15:04	3.91	9.75	0.00
15:05	3.87	9.78	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
15:06	3.86	10.10	0.00
15:07	3.86	10.10	0.00
15:08	3.84	9.80	0.00
15:09	3.94	9.73	0.00
15:10	3.85	9.78	0.00
15:11	3.81	9.81	0.01
15:12	3.88	9.77	0.01
15:13	3.87	9.76	0.00
15:14	3.87	9.77	0.00
15:15	3.87	9.91	0.00
15:16	3.87	10.25	0.00
15:17	3.81	10.00	0.00
15:18	3.96	9.72	0.00
15:19	3.87	9.85	0.08
15:20	3.92	10.13	0.14
15:21	3.95	9.72	0.14
15:22	3.85	9.78	0.12
15:23	3.87	9.78	0.12
15:24	3.88	9.76	0.04
15:25	3.94	9.73	0.07
15:26	3.91	9.75	0.11
15:27	3.88	9.76	0.08
15:28	3.81	9.80	0.08
15:29	3.85	9.78	0.11
15:30	3.87	9.77	0.11
15:31	3.88	9.76	0.12
15:32	3.92	9.74	0.07
15:33	3.87	9.78	0.05
15:34	3.93	9.74	0.04
15:35	3.90	9.81	0.05
15:36	3.90	9.76	0.06
15:37	3.93	9.79	0.09
15:38	3.95	9.73	0.08
15:39	3.83	9.85	0.05
15:40	3.88	9.77	0.07
15:41	3.89	9.76	0.06
15:42	3.91	9.75	0.05
15:43	3.92	9.75	0.04
15:44	3.81	9.81	0.04
15:45	3.90	9.76	
15:46	3.84	9.80	
15:47	3.87	9.78	
15:48	3.88	9.78	
15:49	3.84	9.80	
15:50	3.86	9.79	
15:51	3.87	9.77	
15:52	3.86	9.78	
15:53	3.89	9.76	

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
15:54	3.88	9.87	
15:55	3.89	9.76	
15:56	3.89	9.76	
15:57	3.85	9.79	
15:58	3.86	9.78	
15:59	3.91	9.75	
16:00	3.87	9.77	
16:01	3.88	9.77	
16:02	3.86	9.78	
16:03	3.86	9.78	0.09
16:04	3.82	9.80	0.12
16:05	3.88	9.77	0.10
16:06	3.94	9.74	0.06
16:07	3.89	9.76	0.02
16:08	3.88	9.77	0.03
16:09	3.87	9.77	0.04
16:10	3.90	9.76	0.05
16:11	3.94	9.73	0.04
16:12	3.94	9.74	0.04
16:13	3.85	9.78	0.02
16:14	3.87	9.77	0.01
16:15	3.84	9.79	0.01
16:16	3.85	9.78	0.01
16:17	3.89	9.76	0.01
16:18	3.90	9.75	0.01
16:19	3.87	9.84	0.01
16:20	3.86	9.86	0.01
16:21	3.89	9.76	0.01
16:22	3.90	9.75	0.01
16:23	3.92	9.75	0.02
16:24	3.88	9.77	0.03
16:25	3.86	9.78	0.01
16:26	3.87	9.78	0.01
16:27	3.92	9.75	0.01
16:28	3.87	9.78	0.00
16:29	3.86	9.78	0.00
16:30	3.90	9.75	0.00
16:31	3.85	9.78	0.00
16:32	3.88	9.77	0.00
16:33	3.88	9.77	0.00
16:34	3.88	9.76	0.00
16:35	3.83	9.79	0.00
16:36	3.92	9.74	0.00
16:37	3.89	9.76	0.00
16:38	3.91	9.75	0.00
16:39	3.89	9.76	0.00
16:40	3.88	9.76	0.00
16:41	3.87	9.77	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
16:42	3.89	9.75	0.00
16:43	3.88	9.76	0.00
16:44	3.86	9.77	0.00
16:45	3.87	9.77	0.00
16:46	3.87	9.76	0.02
16:47	3.89	9.75	0.00
16:48	3.92	9.74	0.00
16:49	3.89	9.77	0.00
16:50	3.88	9.77	0.01
16:51	3.89	9.77	0.04
16:52	3.89	9.76	0.04
16:53	3.88	9.77	0.01
16:54	3.85	9.78	0.01
16:55	3.89	9.76	0.00
16:56	3.92	9.74	0.01
16:57	3.87	9.77	0.04
16:58	3.88	9.77	0.05
16:59	3.91	9.91	0.07
17:00	3.86	9.79	0.07
17:01	3.83	9.79	0.02
17:02	3.90	9.76	0.01
17:03	3.89	9.76	
17:04	3.85	9.78	
17:05	3.89	9.76	
17:06	3.90	9.76	
17:07	3.90	9.76	
17:08	3.89	9.76	
17:09	3.91	9.75	
17:10	3.85	9.79	
17:11	3.91	9.75	
17:12	3.88	9.77	
17:13	3.85	9.78	
17:14	3.86	9.78	
17:15	3.88	9.78	
17:16	3.87	9.78	
17:17	3.92	9.75	
17:18	3.90	9.77	
17:19	3.90	9.76	
17:20	3.89	9.76	
17:21	3.85	9.78	
17:22	3.89	9.77	
17:23	3.89	9.76	
17:24	3.88	9.77	
17:25	3.91	9.75	
17:26	3.89	9.77	
17:27	3.87	9.78	
17:28	3.87	9.78	0.01
17:29	3.91	9.76	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.87	9.80	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C _o)	0.08	0.10	0.04
Pretest System Cal Response	11.11	10.84	12.56
Posttest System Cal Response	11.11	10.79	12.65
Average Cal Response (C _M)	11.11	10.82	12.61
Corrected Run Average (Corr)	3.77	9.92	NA
17:30	3.89	9.78	0.00
17:31	3.92	9.76	0.00
17:32	3.86	9.79	0.00
17:33	3.89	9.77	0.00
17:34	3.90	9.77	0.00
17:35	3.89	9.78	0.00
17:36	3.91	9.76	0.00
17:37	3.88	9.78	0.00
17:38	3.90	9.77	0.00
17:39	3.87	9.78	0.00
17:40	3.90	9.77	0.00
17:41	3.86	9.79	0.00
17:42	3.87	9.79	0.00
17:43	3.89	9.77	0.00

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:30	191.9	1.056	2.2	17.0
13:31	191.8	1.056	2.5	16.3
13:32	191.8	1.055	2.5	16.2
13:33	191.9	1.062	1.6	21.3
13:34	192.1	1.059	1.6	21.1
13:35	192.1	1.061	1.7	18.4
13:36	192.0	1.055	2.1	16.9
13:37	191.9	1.056	2.2	16.4
13:38	191.9	1.059	1.6	20.8
13:39	192.1	1.056	1.7	19.1
13:40	192.0	1.055	2.1	17.9
13:41	192.0	1.057	2.1	17.0
13:42	192.0	1.057	2.2	17.0
13:43	191.9	1.057	2.2	16.2
13:45	191.8	1.059	2.5	16.1
13:46	192.0	1.060	1.6	21.7
13:47	192.1	1.057	1.6	19.9
13:48	192.0	1.056	2.2	17.4
13:49	191.9	1.056	2.2	16.6
13:50	191.8	1.060	2.1	18.5
13:51	192.0	1.057	2.2	18.5
13:52	191.9	1.055	2.1	17.0
13:53	191.9	1.056	2.2	18.7
13:54	191.9	1.057	2.1	17.1
13:55	191.8	1.055	2.1	16.4
13:56	191.8	1.058	1.5	21.0
13:57	192.1	1.058	1.7	18.8
13:58	192.0	1.056	2.1	17.3
13:59	191.8	1.056	2.1	16.5
14:00	191.9	1.061	1.6	21.6
14:01	192.2	1.060	1.5	21.7
14:02	192.1	1.055	2.2	16.7
14:03	191.9	1.054	2.1	16.3
14:04	191.8	1.054	2.6	16.3
14:05	191.8	1.055	2.5	16.3
14:07	191.8	1.055	2.6	16.2
14:08	191.7	1.055	2.6	16.2
14:09	191.7	1.057	2.6	16.3
14:10	191.9	1.060	1.4	22.8
14:11	192.1	1.057	1.6	20.5
14:12	192.0	1.056	1.8	18.5
14:13	191.9	1.055	2.2	17.0
14:14	192.0	1.061	1.6	21.2
14:15	192.0	1.057	1.8	18.2
14:16	191.9	1.055	2.1	17.4
14:17	191.9	1.055	2.1	16.6
14:18	191.9	1.060	1.5	22.2
14:19	192.2	1.056	2.6	17.1
14:20	191.9	1.054	2.1	16.3
14:21	191.9	1.055	2.2	18.1
14:22	191.9	1.056	2.6	16.3
14:23	191.9	1.061	1.6	21.7
14:24	192.0	1.057	1.7	19.9
14:25	192.1	1.054	2.1	17.3
14:26	191.9	1.054	2.2	17.3
14:27	191.9	1.054	2.2	16.3

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:29	191.8	1.055	2.6	17.4
14:45	191.7	1.049	2.5	15.3
14:46	191.7	1.052	2.5	15.9
14:47	191.7	1.053	2.6	16.1
14:48	191.7	1.053	2.5	16.1
14:49	191.7	1.054	2.5	16.2
14:51	191.8	1.061	1.4	22.0
14:52	192.0	1.054	2.1	17.7
14:53	191.8	1.053	2.1	16.4
14:54	191.8	1.054	2.5	16.3
14:55	191.7	1.054	2.5	16.2
14:56	191.7	1.052	2.5	16.3
14:57	191.8	1.056	2.2	18.6
14:58	192.2	1.058	1.4	23.5
14:59	192.0	1.054	2.5	16.1
15:00	192.0	1.059	1.5	21.5
15:01	192.1	1.056	1.8	18.2
15:02	191.9	1.052	2.5	16.2
15:03	191.8	1.052	2.5	16.1
15:04	191.8	1.052	2.2	18.0
15:05	192.1	1.057	2.1	21.3
15:06	192.1	1.054	2.0	17.4
15:07	191.9	1.052	2.2	16.2
15:08	191.8	1.054	2.5	16.1
15:09	191.8	1.052	2.5	16.1
15:10	191.8	1.052	2.5	16.1
15:11	191.8	1.053	2.4	16.1
15:13	191.9	1.055	1.5	21.6
15:14	192.1	1.058	1.6	20.4
15:15	192.0	1.055	1.7	20.0
15:16	192.0	1.054	2.1	17.6
15:17	191.9	1.053	2.1	17.6
15:18	192.0	1.054	1.6	20.1
15:19	192.0	1.057	1.8	18.9
15:20	191.9	1.054	2.1	17.6
15:21	191.9	1.054	2.1	18.9
15:22	192.0	1.053	2.1	17.4
15:23	191.9	1.051	2.1	16.5
15:24	192.1	1.058	1.6	21.9
15:25	192.0	1.052	2.6	17.0
15:26	191.9	1.052	2.1	16.0
15:27	191.8	1.052	2.5	16.1
15:28	191.8	1.050	2.5	16.1
15:29	191.8	1.051	2.5	16.1
15:30	192.1	1.060	2.1	24.8
15:31	192.1	1.053	2.5	16.0
15:32	191.9	1.051	2.5	16.1
15:33	191.8	1.052	2.5	16.1
15:34	191.8	1.053	2.7	16.8
15:36	192.2	1.060	2.1	24.1
15:37	192.1	1.052	2.6	16.8
15:38	191.9	1.051	2.1	16.1
15:39	191.8	1.052	2.5	15.9
15:40	191.8	1.055	1.7	19.9
15:41	192.1	1.055	1.7	18.6

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:42	192.0	1.051	2.1	17.2
15:43	191.9	1.055	1.6	21.7
15:44	192.3	1.054	1.7	19.6
16:04	191.7	1.048	2.2	15.3
16:05	191.7	1.049	2.5	15.7
16:06	191.7	1.051	2.5	15.8
16:07	191.7	1.051	2.5	15.9
16:08	191.7	1.052	2.6	16.6
16:09	192.0	1.056	1.7	20.8
16:10	191.8	1.051	2.5	16.0
16:11	191.7	1.053	2.2	18.5
16:12	191.9	1.052	2.1	19.1
16:13	192.0	1.052	2.2	16.9
16:14	191.8	1.051	2.1	16.1
16:15	191.7	1.049	2.5	16.1
16:16	191.7	1.050	2.6	16.3
16:17	192.1	1.057	2.1	24.4
16:18	192.0	1.052	2.5	16.1
16:20	191.8	1.053	2.5	16.9
16:21	191.8	1.050	2.1	16.0
16:22	191.8	1.053	1.7	20.0
16:23	192.0	1.052	2.1	16.8
16:24	191.7	1.053	2.2	18.0
16:25	191.9	1.054	2.0	20.3
16:26	192.0	1.052	1.7	19.7
16:27	192.0	1.053	2.2	17.6
16:28	191.8	1.050	2.2	16.5
16:29	191.9	1.054	1.7	21.6
16:30	191.9	1.051	2.5	16.0
16:31	191.8	1.050	2.5	15.9
16:32	191.7	1.050	2.5	16.0
16:33	191.7	1.049	2.5	15.9
16:34	191.7	1.052	2.7	17.3
16:35	192.0	1.056	1.3	24.0
16:36	192.1	1.052	2.1	19.5
16:37	191.9	1.050	2.5	16.0
16:38	191.8	1.050	2.5	15.9
16:39	191.7	1.052	2.5	15.9
16:40	191.7	1.049	2.5	16.0
16:42	191.7	1.050	2.5	15.9
16:43	191.9	1.056	1.3	24.3
16:44	192.2	1.054	1.4	22.7
16:45	192.1	1.054	2.6	17.0
16:46	191.8	1.048	2.0	16.0
16:47	191.8	1.049	2.5	16.0
16:48	191.8	1.052	1.7	21.1
16:49	191.9	1.051	2.5	15.9
16:50	191.8	1.051	2.6	17.3
16:51	191.8	1.051	2.1	17.0
16:52	191.9	1.050	2.1	17.7
16:53	191.7	1.050	2.1	15.9
16:54	192.0	1.054	1.3	24.3
16:55	192.1	1.051	2.1	17.8
16:56	191.9	1.053	2.1	16.7
16:57	191.8	1.048	2.1	16.0

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:58	191.7	1.048	2.5	15.9
16:59	191.9	1.050	2.2	18.7
17:00	191.8	1.053	2.1	18.8
17:01	192.0	1.051	2.1	17.1
17:02	191.9	1.051	2.1	17.3
17:28	191.7	1.047	2.4	15.3
17:29	191.7	1.049	2.1	18.4
17:30	191.9	1.051	2.5	16.3
17:31	191.8	1.050	2.4	15.4
17:32	191.8	1.053	2.7	17.9
17:33	191.9	1.049	2.1	16.6
17:34	191.8	1.049	2.1	18.2
17:35	191.9	1.049	2.1	17.4
17:36	191.8	1.049	2.0	15.7
17:37	192.0	1.055	1.3	23.9
17:38	192.1	1.049	2.6	16.8
17:39	191.9	1.048	2.1	16.5
17:40	191.9	1.050	2.6	16.8
17:41	191.8	1.047	2.1	15.6
17:42	191.7	1.049	2.4	15.5
17:43	191.7	1.049	2.2	18.1
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.9	1.054	2.1	17.9

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
8:10	4.13	9.89	0.00
8:11	4.08	9.92	0.00
8:12	4.09	9.91	0.00
8:13	4.10	9.90	0.00
8:14	4.11	9.90	0.00
8:15	4.11	9.90	0.00
8:16	4.11	9.90	0.00
8:17	4.09	9.90	0.00
8:18	4.10	9.90	0.00
8:19	4.11	9.89	0.00
8:20	4.11	9.89	0.00
8:21	4.08	9.91	0.00
8:22	4.11	9.88	0.00
8:23	4.12	9.88	0.00
8:24	4.11	9.88	0.00
8:25	4.11	9.88	0.00
8:26	4.12	9.88	0.00
8:27	4.11	9.88	0.00
8:28	4.11	9.88	0.00
8:29	4.13	9.87	0.00
8:30	4.12	9.88	0.00
8:31	4.12	9.88	0.00
8:32	4.08	9.90	0.00
8:33	4.11	9.88	0.00
8:34	4.15	9.86	0.01
8:35	4.12	9.87	0.01
8:36	4.14	9.86	0.00
8:37	4.13	9.87	0.00
8:38	4.14	9.86	0.00
8:39	4.09	9.89	0.00
8:40	4.12	9.87	0.01
8:41	4.14	9.86	0.01
8:42	4.13	9.86	0.01
8:43	4.11	9.88	0.01
8:44	4.13	9.87	0.01
8:45	4.10	9.88	0.01
8:46	4.09	9.89	0.01
8:47	4.12	9.88	0.01
8:48	4.09	9.89	0.01
8:49	4.13	9.87	0.01
8:50	4.11	9.88	0.03
8:51	4.10	9.88	0.01
8:52	4.14	9.86	0.02
8:53	4.14	9.86	0.01
8:54	4.12	9.87	0.01
8:55	4.11	9.87	0.01
8:56	4.11	9.87	0.01
8:57	4.09	9.88	0.01

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
8:58	4.13	9.86	0.01
8:59	4.11	9.87	0.01
9:00	4.08	9.89	0.01
9:01	4.11	9.87	0.02
9:02	4.10	9.87	0.04
9:03	4.11	9.87	0.03
9:04	4.08	9.89	0.02
9:05	4.12	9.87	0.03
9:06	4.11	9.87	0.01
9:07	4.08	9.89	0.01
9:08	4.09	9.88	0.05
9:09	4.09	9.87	0.04
9:10	4.09	9.87	
9:11	4.09	9.88	
9:12	4.10	9.87	
9:13	4.08	9.88	
9:14	4.06	9.89	
9:15	4.07	9.89	
9:16	4.09	9.87	
9:17	4.12	9.85	
9:18	4.10	9.86	
9:19	4.09	9.87	
9:20	4.08	9.87	0.00
9:21	4.10	9.86	0.00
9:22	4.10	9.86	0.00
9:23	4.08	9.87	0.00
9:24	4.09	9.86	0.00
9:25	4.13	9.84	0.00
9:26	4.15	9.83	0.00
9:27	4.13	9.85	0.00
9:28	4.09	9.87	0.00
9:29	4.09	9.87	0.00
9:30	4.09	9.87	0.00
9:31	4.08	9.87	0.00
9:32	4.10	9.85	0.01
9:33	4.12	9.85	0.01
9:34	4.09	9.86	0.01
9:35	4.09	9.86	0.01
9:36	4.10	9.86	0.00
9:37	4.08	9.87	0.00
9:38	4.06	9.88	0.00
9:39	4.10	9.86	0.03
9:40	4.06	9.88	0.05
9:41	4.04	9.88	0.02
9:42	4.06	9.87	0.02
9:43	4.05	9.88	0.03
9:44	4.08	9.87	0.04
9:45	4.07	9.87	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
9:46	4.08	9.87	0.00
9:47	4.04	9.89	0.00
9:48	4.09	9.85	0.00
9:49	4.10	9.85	0.00
9:50	4.03	9.88	0.00
9:51	4.02	9.89	0.00
9:52	4.04	9.87	0.00
9:53	4.08	9.85	0.00
9:54	4.03	9.88	0.00
9:55	4.04	9.88	0.00
9:56	4.06	9.86	0.00
9:57	4.10	9.84	0.00
9:58	4.01	9.89	0.00
9:59	4.04	9.88	0.00
10:00	4.08	9.86	0.00
10:01	4.07	9.86	0.00
10:02	4.07	9.85	0.01
10:03	4.09	9.84	0.00
10:04	4.04	9.87	0.01
10:05	4.04	9.87	0.03
10:06	4.09	9.84	0.02
10:07	4.07	9.85	0.03
10:08	4.03	9.87	0.01
10:09	4.08	9.84	0.00
10:10	4.07	9.85	0.00
10:11	4.08	9.85	0.00
10:12	4.05	9.86	0.01
10:13	4.06	9.86	0.01
10:14	3.99	9.91	0.00
10:15	4.02	9.89	0.00
10:16	4.03	9.88	0.02
10:17	4.07	9.85	0.07
10:18	4.03	9.88	0.07
10:19	4.03	9.88	0.07
10:20	4.04	9.87	
10:21	4.07	9.85	
10:22	4.05	9.86	
10:23	4.00	9.90	
10:24	3.99	9.89	
10:25	4.04	9.85	
10:26	4.00	9.89	
10:27	3.99	9.89	
10:28	4.01	9.88	
10:29	4.03	9.87	
10:30	3.99	9.89	
10:31	4.01	9.88	
10:32	4.05	9.86	0.05
10:33	4.03	9.87	0.09

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
10:34	4.04	9.87	0.08
10:35	4.04	9.86	0.07
10:36	4.02	9.88	0.07
10:37	4.06	9.85	0.08
10:38	4.00	9.89	0.08
10:39	4.05	9.85	0.09
10:40	4.00	9.88	0.09
10:41	3.99	9.89	0.09
10:42	4.05	9.85	0.05
10:43	4.02	9.87	0.07
10:44	4.07	9.85	0.06
10:45	3.96	9.91	0.06
10:46	4.02	9.87	0.00
10:47	4.02	9.87	0.00
10:48	3.99	9.88	0.00
10:49	3.96	9.90	0.00
10:50	3.99	9.88	0.02
10:51	4.00	9.88	0.05
10:52	4.01	9.87	0.04
10:53	4.00	9.89	0.05
10:54	4.03	9.89	0.07
10:55	4.04	9.84	0.08
10:56	3.96	9.89	0.07
10:57	3.99	9.87	0.08
10:58	4.01	9.86	0.07
10:59	4.01	9.86	0.08
11:00	4.00	9.86	0.09
11:01	3.95	9.98	0.10
11:02	3.97	9.88	0.10
11:03	4.01	9.86	0.10
11:04	4.00	9.87	0.10
11:05	3.95	9.89	0.10
11:06	4.02	9.86	0.07
11:07	3.98	9.88	0.09
11:08	4.00	9.86	0.10
11:09	3.99	9.87	0.10
11:10	4.02	9.85	0.09
11:11	4.02	9.85	0.12
11:12	3.98	9.87	0.13
11:13	4.05	9.83	0.13
11:14	3.97	9.87	0.12
11:15	3.98	9.86	0.12
11:16	4.00	9.85	0.09
11:17	3.94	9.88	0.07
11:18	4.05	9.82	0.05
11:19	4.07	9.81	0.04
11:20	4.05	9.82	0.04
11:21	4.00	9.84	0.04

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C ₀)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
11:22	3.98	9.85	0.04
11:23	3.98	9.86	0.04
11:24	3.98	9.85	0.04
11:25	4.02	9.83	0.04
11:26	4.04	9.82	0.05
11:27	4.00	9.84	0.07
11:28	3.97	9.85	0.03
11:29	3.95	9.86	0.02
11:30	3.99	9.84	0.02
11:31	4.01	9.83	0.05
11:32	3.95	9.86	
11:33	4.02	9.82	
11:34	4.06	9.80	
11:35	4.02	9.82	
11:36	4.02	9.81	
11:37	4.04	9.80	
11:38	3.94	9.87	
11:39	4.01	9.82	
11:40	3.94	9.85	
11:41	3.96	9.84	
11:42	4.02	9.81	
11:43	4.02	9.81	0.01
11:44	4.05	9.79	0.01
11:45	4.01	9.81	0.00
11:46	3.96	9.84	0.01
11:47	3.99	9.82	0.01
11:48	3.97	9.83	0.01
11:49	4.02	9.80	0.01
11:50	4.01	9.81	0.01
11:51	4.00	9.82	0.01
11:52	3.99	9.82	0.02
11:53	4.02	9.80	0.01
11:54	3.99	9.82	0.00
11:55	4.00	9.81	0.00
11:56	3.97	9.83	0.00
11:57	4.00	9.81	0.00
11:58	4.02	9.80	0.00
11:59	4.00	9.81	0.00
12:00	4.04	9.80	0.00
12:01	3.98	9.83	0.00
12:02	3.97	9.83	0.00
12:03	4.07	9.78	0.00
12:04	3.99	9.82	0.00
12:05	3.99	9.82	0.00
12:06	4.00	9.82	0.00
12:07	3.98	9.83	0.00
12:08	3.98	9.83	0.00
12:09	4.04	9.79	0.01

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	4.05	9.86	0.03
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Average Zero Response (C _o)	0.06	0.09	0.07
Pretest System Cal Response	10.96	11.07	12.53
Posttest System Cal Response	11.09	10.82	12.44
Average Cal Response (C _M)	11.03	10.95	12.49
Corrected Run Average (Corr)	3.99	9.87	NA
12:10	4.03	9.79	0.01
12:11	4.03	9.79	0.01
12:12	3.97	9.83	0.01
12:13	3.99	9.81	0.01
12:14	4.00	9.81	0.01

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:10	192.0	1.064	2.5	16.1
8:11	192.1	1.070	1.6	19.7
8:12	192.0	1.064	1.7	17.8
8:13	191.9	1.069	2.0	19.4
8:14	192.1	1.064	2.4	15.8
8:15	191.9	1.064	2.5	16.8
8:16	192.0	1.071	1.5	20.8
8:18	192.0	1.064	2.4	15.5
8:19	191.8	1.063	2.4	15.5
8:20	191.8	1.065	2.4	15.3
8:21	192.0	1.071	1.6	21.3
8:22	192.0	1.066	1.7	18.0
8:23	192.2	1.069	2.0	17.8
8:24	191.9	1.064	2.4	15.5
8:25	191.8	1.066	2.4	15.4
8:26	191.9	1.068	1.4	22.8
8:27	192.1	1.065	2.4	15.7
8:28	191.8	1.064	2.4	15.7
8:29	192.1	1.073	1.3	23.2
8:30	192.1	1.063	2.4	16.1
8:31	191.8	1.067	2.6	17.1
8:32	192.1	1.066	1.6	20.4
8:33	192.0	1.064	2.4	16.0
8:34	192.1	1.069	1.6	21.1
8:35	191.9	1.063	2.4	15.8
8:36	191.8	1.063	2.3	15.7
8:37	191.8	1.065	2.3	15.6
8:38	192.0	1.070	2.1	24.6
8:39	192.3	1.065	2.0	17.9
8:41	192.0	1.063	2.4	15.5
8:42	191.9	1.067	1.6	20.6
8:43	192.0	1.065	2.4	16.0
8:44	192.0	1.069	1.4	22.2
8:45	192.1	1.065	2.5	16.8
8:46	191.9	1.062	2.0	15.8
8:47	191.7	1.063	2.4	15.5
8:48	191.9	1.069	1.3	22.3
8:49	192.0	1.067	1.9	18.8
8:50	192.1	1.065	2.0	19.6
8:51	192.0	1.066	2.4	16.1
8:52	191.8	1.063	2.4	15.9
8:53	191.8	1.063	2.4	15.9
8:54	192.0	1.069	1.1	23.8
8:55	192.3	1.065	2.0	18.5
8:56	192.0	1.067	2.0	20.9
8:57	192.1	1.067	2.0	16.3
8:58	191.9	1.063	2.3	15.8
8:59	191.8	1.066	2.0	18.8
9:00	192.0	1.065	2.0	21.1
9:01	192.2	1.066	1.6	18.7
9:03	192.0	1.065	2.0	17.8
9:04	192.1	1.065	2.0	20.6
9:05	192.1	1.065	2.0	16.9
9:06	191.8	1.065	2.0	15.9
9:07	191.8	1.064	2.0	18.6
9:08	192.0	1.066	1.9	19.5

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:09	192.1	1.066	1.5	19.5
9:20	191.7	1.059	2.2	15.2
9:21	191.8	1.064	1.4	20.4
9:22	192.0	1.070	1.5	20.7
9:23	192.0	1.063	1.9	17.4
9:25	191.8	1.061	1.9	16.0
9:26	191.9	1.065	1.3	21.1
9:27	192.0	1.064	1.6	18.6
9:28	191.9	1.067	2.0	18.6
9:29	191.9	1.063	2.0	17.1
9:30	192.0	1.066	1.5	20.4
9:31	192.0	1.066	1.5	19.6
9:32	192.1	1.067	1.4	20.5
9:33	192.0	1.065	1.9	17.2
9:34	191.9	1.065	2.0	18.4
9:35	192.1	1.065	2.0	18.5
9:36	191.8	1.063	2.3	15.6
9:37	192.0	1.068	1.3	21.9
9:38	192.0	1.063	2.4	15.9
9:39	191.8	1.063	2.4	15.8
9:40	192.0	1.068	1.2	22.6
9:41	192.2	1.065	2.0	18.8
9:42	192.0	1.067	2.0	19.9
9:43	192.1	1.064	1.6	18.3
9:44	191.8	1.063	2.4	16.0
9:45	191.8	1.062	2.3	15.6
9:47	191.8	1.063	2.3	16.2
9:48	191.9	1.068	1.2	22.0
9:49	192.1	1.065	2.0	18.4
9:50	191.9	1.062	2.3	15.7
9:51	191.9	1.066	1.5	20.7
9:52	192.1	1.066	1.5	20.5
9:53	192.0	1.065	1.6	18.1
9:54	191.9	1.063	1.9	17.6
9:55	192.1	1.067	1.5	20.7
9:56	192.1	1.065	1.9	17.4
9:57	191.9	1.064	1.5	20.5
9:58	192.1	1.066	1.3	21.6
9:59	192.1	1.063	1.9	17.1
10:00	191.9	1.066	1.5	20.1
10:01	192.0	1.063	1.6	18.0
10:02	191.9	1.063	2.4	16.1
10:03	191.8	1.064	1.9	18.1
10:04	192.0	1.064	1.9	19.8
10:05	191.9	1.066	1.6	17.9
10:06	191.9	1.062	1.9	17.2
10:07	191.9	1.064	2.0	17.1
10:09	192.1	1.069	1.2	22.3
10:10	192.2	1.064	2.0	18.9
10:11	192.0	1.062	2.4	16.1
10:12	192.0	1.068	1.4	21.4
10:13	192.1	1.063	1.6	17.8
10:14	192.1	1.065	2.0	19.1
10:15	191.9	1.063	2.0	16.7
10:16	191.9	1.063	1.9	15.9

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:17	191.8	1.065	1.9	18.3
10:18	192.1	1.066	1.8	19.5
10:19	192.1	1.064	1.4	20.3
10:33	191.7	1.056	2.2	14.7
10:34	191.7	1.059	1.9	16.9
10:35	191.8	1.063	1.9	18.3
10:36	191.9	1.068	1.9	19.3
10:37	192.0	1.063	1.6	18.0
10:38	191.8	1.062	2.4	16.2
10:39	191.9	1.064	1.9	18.8
10:40	192.1	1.067	1.9	21.3
10:41	192.1	1.064	1.6	17.8
10:42	195.4	1.346	1.9	12.7
10:43	192.0	1.065	1.5	20.1
10:45	192.0	1.063	1.6	18.9
10:46	188.5	1.210	1.7	14.5
10:47	191.8	1.061	1.9	16.0
10:48	191.8	1.065	1.6	20.0
10:49	192.1	1.064	1.4	21.7
10:50	192.1	1.066	1.9	18.0
10:51	191.9	1.063	2.0	19.3
10:52	192.1	1.064	1.5	19.8
10:53	192.0	1.063	2.4	16.1
10:54	191.8	1.063	2.4	15.9
10:55	191.9	1.067	1.4	21.4
10:56	192.1	1.063	1.6	18.3
10:57	192.0	1.062	2.0	18.1
10:58	192.0	1.063	1.9	18.5
10:59	192.0	1.066	1.9	19.9
11:00	192.1	1.065	1.6	19.4
11:01	192.0	1.061	1.7	17.9
11:02	192.0	1.062	1.9	17.4
11:03	191.9	1.063	1.9	17.8
11:04	191.9	1.064	2.4	15.8
11:05	191.8	1.065	1.7	18.3
11:06	192.1	1.065	1.7	19.8
11:08	192.0	1.061	1.5	18.0
11:09	192.0	1.065	2.0	19.5
11:10	192.1	1.064	1.4	19.1
11:11	192.0	1.064	1.6	18.9
11:12	192.0	1.061	2.0	16.8
11:13	192.1	1.067	1.3	21.8
11:14	192.1	1.065	2.0	17.9
11:15	191.9	1.061	2.4	16.2
11:16	191.8	1.062	2.6	17.5
11:17	192.0	1.064	2.0	18.6
11:18	192.0	1.065	1.3	22.3
11:19	192.2	1.066	2.0	18.0
11:20	191.9	1.061	2.4	16.1
11:21	191.9	1.062	2.3	16.1
11:22	191.8	1.062	2.4	16.4
11:23	192.0	1.065	1.2	23.1
11:24	192.1	1.063	2.0	18.2
11:25	191.9	1.062	2.5	16.1
11:26	191.9	1.067	1.5	20.1

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:27	192.2	1.063	1.5	20.7
11:28	192.1	1.066	1.6	20.3
11:30	192.1	1.060	1.9	17.2
11:31	191.9	1.063	1.9	17.3
11:43	191.7	1.056	2.2	15.4
11:44	191.7	1.059	2.3	15.9
11:45	191.9	1.064	1.4	21.5
11:46	191.9	1.066	1.6	18.0
11:47	191.8	1.062	2.0	18.4
11:48	192.0	1.063	2.0	19.4
11:49	192.0	1.063	1.6	19.0
11:50	191.9	1.062	2.0	17.0
11:52	191.8	1.065	1.5	20.0
11:53	192.0	1.063	1.5	19.6
11:54	192.0	1.061	1.6	17.9
11:55	191.9	1.061	2.4	16.1
11:56	191.8	1.060	2.5	17.0
11:57	192.0	1.066	1.3	22.2
11:58	192.2	1.063	2.1	18.2
11:59	191.9	1.060	2.4	16.2
12:00	191.9	1.061	2.5	16.9
12:01	191.8	1.063	1.4	20.1
12:02	192.1	1.066	1.4	21.7
12:03	192.1	1.062	1.9	18.2
12:04	192.0	1.061	1.9	16.9
12:05	191.9	1.064	1.5	20.3
12:06	192.1	1.062	1.6	20.1
12:07	192.0	1.060	2.4	16.3
12:08	191.9	1.066	1.5	21.1
12:09	192.0	1.063	1.6	19.4
12:10	192.0	1.060	2.0	16.8
12:11	191.9	1.060	1.9	16.3
12:12	191.8	1.062	2.3	16.1
12:14	191.8	1.059	2.4	16.2

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	192.0	1.066	1.9	18.3

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C ₀)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
13:20	3.98	9.79	0.00
13:21	3.96	9.80	0.00
13:22	4.02	9.76	0.00
13:23	4.00	9.77	0.00
13:24	3.97	9.79	0.01
13:25	4.02	9.76	0.01
13:26	4.03	9.75	0.05
13:27	4.00	9.77	0.05
13:28	3.98	9.78	0.06
13:29	3.99	9.77	0.06
13:30	3.99	9.77	0.02
13:31	3.96	9.79	0.02
13:32	4.00	9.76	0.05
13:33	3.94	9.80	0.01
13:34	3.96	9.79	0.01
13:35	4.00	9.76	0.01
13:36	4.02	9.75	0.04
13:37	3.97	9.77	0.06
13:38	3.99	9.76	0.07
13:39	3.99	9.76	0.04
13:40	3.96	9.78	0.06
13:41	3.96	9.78	0.07
13:42	3.97	9.77	0.07
13:43	3.98	9.76	0.07
13:44	4.00	9.76	0.06
13:45	4.01	9.75	0.06
13:46	4.01	9.75	0.07
13:47	3.98	9.77	0.09
13:48	4.00	9.75	0.08
13:49	4.00	9.75	0.07
13:50	3.94	9.79	0.08
13:51	3.98	9.77	0.07
13:52	4.00	9.76	0.08
13:53	3.97	9.78	0.09
13:54	3.99	9.76	0.10
13:55	3.95	9.78	0.09
13:56	3.99	9.75	0.10
13:57	3.97	9.77	0.09
13:58	3.99	9.76	0.09
13:59	3.97	9.77	0.09
14:00	4.03	9.74	0.08
14:01	3.99	9.76	0.08
14:02	3.95	9.78	0.11
14:03	3.96	9.78	0.13
14:04	3.98	9.77	0.13
14:05	3.99	9.76	0.13
14:06	4.00	9.74	0.13
14:07	3.98	9.76	0.11

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C ₀)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
14:08	3.99	9.75	0.10
14:09	3.97	9.76	0.10
14:10	3.93	9.78	0.10
14:11	3.98	9.76	0.10
14:12	3.97	9.77	0.10
14:13	4.01	9.74	0.10
14:14	3.98	9.76	0.10
14:15	3.98	9.75	0.10
14:16	4.01	9.74	0.10
14:17	3.98	9.75	0.10
14:18	3.96	9.76	0.10
14:19	3.99	9.75	0.10
14:20	3.97	9.76	
14:21	3.97	9.75	
14:22	4.45	9.74	
14:23	4.00	9.74	
14:24	3.97	9.76	
14:25	3.98	9.75	
14:26	3.94	9.77	
14:27	4.01	9.73	
14:28	3.97	9.75	
14:29	4.04	9.71	
14:30	4.02	9.72	
14:31	3.97	9.75	
14:32	4.00	9.74	0.08
14:33	3.96	9.76	0.03
14:34	3.98	9.75	0.04
14:35	4.04	9.71	0.08
14:36	3.98	9.75	0.05
14:37	3.95	9.76	0.03
14:38	3.99	9.73	0.02
14:39	4.02	9.72	0.04
14:40	4.02	9.71	0.03
14:41	4.03	9.70	0.03
14:42	4.02	9.72	0.02
14:43	3.97	9.75	0.01
14:44	4.00	9.73	0.00
14:45	3.99	9.74	0.01
14:46	4.02	9.72	0.00
14:47	4.01	9.72	0.00
14:48	3.98	9.74	0.00
14:49	4.01	9.73	0.00
14:50	3.96	9.75	0.00
14:51	4.04	9.71	0.01
14:52	4.03	9.71	0.01
14:53	3.94	9.76	0.02
14:54	3.96	9.74	0.05
14:55	3.95	9.75	0.04

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C ₀)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
14:56	4.02	9.71	0.02
14:57	3.97	9.74	0.02
14:58	4.00	9.72	0.05
14:59	3.98	9.73	0.01
15:00	3.99	9.73	0.00
15:01	3.99	9.73	0.02
15:02	4.01	9.71	0.07
15:03	3.96	9.74	0.09
15:04	3.95	9.74	0.08
15:05	4.03	9.70	0.05
15:06	3.97	9.74	0.03
15:07	3.94	9.75	0.08
15:08	3.99	9.72	0.08
15:09	4.03	9.70	0.06
15:10	4.01	9.71	0.01
15:11	4.01	9.71	0.01
15:12	4.00	9.72	0.07
15:13	3.95	9.75	0.08
15:14	3.97	9.74	0.08
15:15	3.98	9.73	0.07
15:16	4.03	9.70	0.08
15:17	4.05	9.82	0.10
15:18	4.04	9.92	0.10
15:19	4.00	9.72	0.08
15:20	4.00	9.72	0.03
15:21	4.01	9.71	0.02
15:22	4.00	9.72	0.08
15:23	3.96	9.74	0.08
15:24	3.97	9.73	0.05
15:25	3.96	9.73	0.03
15:26	3.99	9.71	0.00
15:27	3.98	9.72	0.00
15:28	3.99	9.71	0.00
15:29	4.01	9.71	0.00
15:30	3.99	9.72	0.00
15:31	3.96	9.73	0.00
15:32	3.98	9.72	
15:33	3.98	9.73	
15:34	3.93	9.76	
15:35	4.02	9.71	
15:36	4.05	9.69	
15:37	3.98	9.72	
15:38	4.00	9.71	
15:39	4.01	9.70	
15:40	4.00	9.71	
15:41	3.93	9.75	
15:42	3.99	9.71	
15:43	3.97	9.72	

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C ₀)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
15:44	3.98	9.72	0.07
15:45	3.96	9.73	0.03
15:46	4.04	9.68	0.08
15:47	3.96	9.72	0.08
15:48	3.94	9.74	0.03
15:49	3.99	9.71	0.01
15:50	3.98	9.72	0.01
15:51	3.97	9.72	0.00
15:52	4.03	9.69	0.00
15:53	3.94	9.74	0.00
15:54	4.01	9.70	0.00
15:55	3.95	9.74	0.00
15:56	3.99	9.71	0.01
15:57	3.99	9.72	0.02
15:58	3.97	9.73	0.01
15:59	3.99	9.71	0.00
16:00	4.03	9.69	0.00
16:01	3.96	9.73	0.00
16:02	3.98	9.72	0.08
16:03	3.99	9.71	0.07
16:04	3.99	9.72	0.03
16:05	3.98	9.72	0.03
16:06	3.99	9.72	0.07
16:07	3.98	9.73	0.05
16:08	4.03	9.69	0.00
16:09	3.99	9.72	0.01
16:10	3.97	9.73	0.00
16:11	4.02	9.71	0.01
16:12	4.03	9.72	0.01
16:13	4.00	9.74	0.00
16:14	3.96	9.77	0.00
16:15	3.97	9.77	0.00
16:16	3.98	9.77	0.00
16:17	3.99	9.77	0.00
16:18	4.00	9.78	0.00
16:19	3.99	9.82	0.00
16:20	3.99	9.82	0.02
16:21	3.98	9.86	0.03
16:22	4.00	9.96	0.06
16:23	3.99	10.57	0.06
16:24	3.97	9.86	0.07
16:25	3.99	9.86	0.08
16:26	4.01	9.87	0.08
16:27	3.98	9.91	0.07
16:28	4.01	9.90	0.05
16:29	3.99	9.92	0.05
16:30	3.95	9.94	0.05
16:31	3.98	9.94	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C ₀)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
16:32	4.01	9.94	0.00
16:33	3.99	9.96	0.00
16:34	3.93	10.00	0.01
16:35	3.96	10.00	0.02
16:36	3.98	10.02	0.04
16:37	3.98	10.03	0.04
16:38	3.99	10.02	0.01
16:39	3.98	10.06	0.01
16:40	3.92	10.11	0.01
16:41	3.92	10.16	0.03
16:42	3.94	10.24	0.04
16:43	3.99	10.35	0.04
16:44	3.98	10.20	
16:45	4.00	10.15	
16:46	3.95	10.14	
16:47	3.98	10.11	
16:48	3.95	10.13	
16:49	3.96	10.12	
16:50	3.98	10.11	
16:51	3.97	10.11	
16:52	3.95	10.13	
16:53	3.98	10.12	
16:54	3.96	10.14	
16:55	3.95	10.15	
16:56	3.99	10.13	
16:57	3.92	10.18	0.10
16:58	3.98	10.16	0.09
16:59	3.90	10.21	0.09
17:00	3.96	10.19	0.09
17:01	3.97	10.19	0.07
17:02	3.95	10.21	0.02
17:03	3.94	10.22	0.01
17:04	3.97	10.22	0.01
17:05	3.95	10.24	0.00
17:06	3.94	10.26	0.00
17:07	3.96	10.25	0.00
17:08	3.95	10.26	0.00
17:09	3.97	10.25	0.00
17:10	3.94	10.28	0.00
17:11	3.92	10.28	0.00
17:12	3.97	10.25	0.00
17:13	3.95	10.26	0.00
17:14	3.96	10.28	0.00
17:15	3.92	10.29	0.00
17:16	3.96	10.27	0.00
17:17	3.95	10.28	0.00
17:18	3.92	10.31	0.00
17:19	3.97	10.29	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.98	9.86	0.04
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Average Zero Response (C _o)	0.10	0.05	0.07
Pretest System Cal Response	11.09	10.82	12.44
Posttest System Cal Response	11.11	10.82	12.53
Average Cal Response (C _M)	11.10	10.82	12.49
Corrected Run Average (Corr)	3.87	9.98	NA
17:20	3.98	10.29	0.00
17:21	3.94	10.32	0.00
17:22	3.96	10.32	0.00
17:23	3.94	10.34	0.01
17:24	3.98	10.34	0.01
17:25	3.93	10.41	0.01
17:26	3.94	10.37	0.00
17:27	3.98	10.33	0.00
17:28	3.97	10.33	0.00
17:29	3.92	10.38	0.00

Location: BASF Corporation - McIntosh, AL

Source: No. 7 Boiler

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:20	191.9	1.058	2.5	16.1
13:21	191.8	1.060	2.2	19.0
13:22	192.1	1.062	2.1	17.9
13:23	192.1	1.066	1.2	24.4
13:24	192.2	1.060	2.5	16.8
13:25	191.9	1.058	2.0	16.2
13:26	191.9	1.058	2.4	16.1
13:27	191.8	1.063	2.0	18.7
13:28	192.1	1.060	1.9	20.0
13:29	192.1	1.060	1.6	18.4
13:30	192.0	1.060	2.0	16.8
13:31	192.0	1.062	2.1	18.8
13:32	192.1	1.062	2.0	19.5
13:33	192.0	1.061	1.6	19.0
13:34	192.1	1.059	2.1	17.8
13:35	191.9	1.058	2.1	17.9
13:37	192.0	1.062	2.1	19.1
13:38	192.0	1.060	2.0	17.5
13:39	191.9	1.057	2.0	16.3
13:40	191.8	1.057	2.5	16.1
13:41	191.8	1.062	1.5	20.5
13:42	192.3	1.065	1.3	22.7
13:43	192.1	1.058	2.5	16.6
13:44	191.9	1.057	2.0	16.3
13:45	191.8	1.058	2.4	16.1
13:46	191.8	1.058	2.7	17.7
13:47	192.0	1.061	1.4	21.0
13:48	192.1	1.060	1.7	18.1
13:49	191.9	1.058	2.5	16.0
13:50	191.9	1.060	1.7	19.8
13:51	192.1	1.061	1.4	21.7
13:52	192.1	1.060	2.0	18.8
13:53	192.0	1.059	2.1	17.2
13:54	191.9	1.059	2.0	17.2
13:55	192.0	1.061	1.5	20.8
13:56	192.1	1.058	2.0	17.5
13:57	191.9	1.057	2.0	16.8
13:59	191.9	1.061	2.0	18.8
14:00	192.1	1.060	2.0	18.5
14:01	192.0	1.059	2.0	17.7
14:02	192.0	1.059	2.0	17.1
14:03	192.0	1.057	2.0	16.9
14:04	191.8	1.058	2.1	17.7
14:05	192.0	1.061	1.6	21.0
14:06	192.1	1.059	1.5	20.1
14:07	192.0	1.060	1.6	18.2
14:08	192.0	1.058	2.0	17.3
14:09	192.1	1.063	1.4	21.2
14:10	192.1	1.059	1.6	18.1
14:11	192.0	1.057	2.4	16.3
14:12	192.0	1.059	2.0	18.7
14:13	191.9	1.059	2.0	17.6
14:14	191.9	1.057	2.0	17.0
14:15	191.9	1.056	2.0	16.3
14:16	192.0	1.062	1.3	22.4
14:17	192.1	1.060	2.1	19.1

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:18	192.0	1.058	2.1	18.1
14:19	192.0	1.059	2.0	18.2
14:33	191.8	1.052	2.3	15.3
14:34	191.8	1.054	2.4	15.8
14:35	191.8	1.055	2.5	16.0
14:36	191.9	1.061	1.6	21.0
14:37	192.0	1.057	2.0	16.6
14:38	191.9	1.057	2.1	17.9
14:39	191.8	1.057	2.1	17.8
14:40	192.0	1.060	1.5	19.9
14:42	192.0	1.056	1.7	18.6
14:43	191.9	1.060	2.0	18.8
14:44	192.0	1.058	2.0	18.4
14:45	191.9	1.056	2.0	17.3
14:46	191.9	1.054	2.1	16.6
14:47	191.9	1.055	2.5	16.3
14:48	191.8	1.054	2.4	16.3
14:49	191.9	1.062	1.5	21.2
14:50	192.1	1.059	1.5	21.5
14:51	192.1	1.059	1.7	18.8
14:52	192.0	1.055	2.0	17.3
14:53	191.9	1.055	2.0	16.3
14:54	191.9	1.057	1.6	20.5
14:55	192.1	1.060	1.6	19.9
14:56	192.0	1.058	1.7	20.2
14:57	192.0	1.056	2.0	16.7
14:58	192.0	1.059	1.5	20.5
14:59	192.0	1.056	1.7	18.9
15:00	192.0	1.055	2.0	17.1
15:01	191.9	1.057	1.6	19.8
15:02	192.0	1.059	1.7	19.3
15:04	191.9	1.054	2.5	16.1
15:05	191.9	1.054	2.4	16.1
15:06	191.9	1.056	2.0	19.0
15:07	192.0	1.059	2.0	18.0
15:08	192.0	1.057	2.0	20.6
15:09	192.0	1.056	1.7	18.2
15:10	192.0	1.058	2.1	17.9
15:11	191.9	1.055	2.5	16.2
15:12	191.8	1.053	2.4	16.2
15:13	191.9	1.055	1.4	20.2
15:14	192.1	1.060	1.3	21.4
15:15	192.0	1.057	1.4	18.5
15:16	192.0	1.057	1.8	19.2
15:17	192.1	1.059	1.4	20.4
15:18	192.0	1.055	2.0	17.2
15:19	192.0	1.054	2.0	16.5
15:20	191.9	1.058	1.5	21.0
15:21	192.1	1.054	2.1	17.2
15:22	191.9	1.055	2.0	16.2
15:23	191.9	1.055	2.1	18.1
15:24	192.1	1.060	2.0	20.5
15:26	192.0	1.054	2.1	17.3
15:27	191.9	1.056	2.1	18.0
15:28	192.1	1.056	2.1	17.9

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:29	192.0	1.058	1.9	20.8
15:30	192.1	1.058	1.7	18.4
15:31	192.0	1.055	2.1	16.8
15:44	191.7	1.050	2.3	14.9
15:45	191.8	1.052	2.4	15.4
15:46	191.7	1.053	2.4	15.8
15:47	191.7	1.054	2.4	15.9
15:49	191.8	1.059	1.6	20.4
15:50	192.1	1.058	1.6	20.1
15:51	192.0	1.054	2.5	16.1
15:52	191.8	1.053	2.4	16.1
15:53	192.0	1.057	1.5	20.8
15:54	192.0	1.054	2.0	16.7
15:55	192.0	1.058	1.5	21.2
15:56	192.1	1.054	2.1	16.6
15:57	191.9	1.055	2.1	18.0
15:58	192.1	1.057	2.1	19.2
15:59	192.0	1.055	2.4	15.9
16:00	191.9	1.053	2.4	15.9
16:01	192.0	1.060	1.3	22.4
16:02	192.1	1.057	1.6	20.1
16:03	192.1	1.054	2.4	15.9
16:04	191.9	1.053	2.4	15.9
16:05	192.0	1.059	1.5	21.4
16:06	192.1	1.056	1.7	18.1
16:07	191.9	1.053	2.5	16.7
16:08	191.9	1.056	2.0	17.9
16:09	192.1	1.058	2.0	20.6
16:11	192.1	1.054	2.0	16.8
16:12	191.9	1.053	2.0	16.0
16:13	191.9	1.053	2.4	15.9
16:14	191.9	1.055	2.4	15.9
16:15	191.8	1.055	2.5	16.6
16:16	192.1	1.058	1.2	23.7
16:17	192.2	1.058	2.0	19.0
16:18	192.1	1.053	2.4	15.9
16:19	191.9	1.052	2.4	15.9
16:20	191.9	1.053	2.4	15.7
16:21	192.0	1.060	1.3	22.2
16:22	192.2	1.056	2.0	19.0
16:23	192.1	1.054	2.4	15.8
16:24	192.1	1.058	1.6	21.0
16:25	192.1	1.054	2.5	16.4
16:26	192.0	1.053	2.5	17.0
16:27	192.0	1.057	1.6	20.5
16:28	192.2	1.055	1.7	18.4
16:29	192.0	1.054	2.4	15.9
16:30	191.9	1.052	2.4	15.9
16:31	191.8	1.056	2.0	18.6
16:33	192.1	1.056	2.0	18.4
16:34	192.1	1.056	2.0	18.9
16:35	192.1	1.055	2.1	19.5
16:36	192.1	1.057	1.6	18.9
16:37	192.0	1.054	2.0	17.6
16:38	192.0	1.054	2.0	16.8

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:39	192.0	1.053	2.0	15.9
16:40	192.0	1.056	1.4	21.3
16:41	192.2	1.057	1.5	21.4
16:42	192.1	1.053	2.4	15.9
16:43	191.9	1.052	2.3	15.9
16:57	191.8	1.049	2.3	15.0
16:58	191.8	1.050	2.3	15.4
16:59	191.8	1.051	2.3	15.6
17:00	191.8	1.053	2.5	16.7
17:01	192.0	1.058	1.4	21.5
17:02	192.0	1.053	2.5	16.3
17:03	192.0	1.055	1.5	21.8
17:04	192.1	1.054	2.0	17.2
17:05	192.0	1.053	2.0	15.9
17:06	191.9	1.051	2.4	15.7
17:07	191.9	1.055	1.6	20.9
17:08	192.2	1.056	1.4	20.5
17:09	192.2	1.057	1.6	20.4
17:10	192.0	1.052	2.4	16.0
17:11	191.9	1.051	2.4	15.9
17:12	191.9	1.051	2.4	15.8
17:13	191.9	1.053	2.5	15.8
17:14	191.9	1.057	1.4	21.4
17:16	192.2	1.055	1.5	20.2
17:17	192.0	1.051	2.4	15.9
17:18	191.9	1.051	2.4	15.9
17:19	191.9	1.055	1.6	20.0
17:20	192.2	1.056	1.4	22.9
17:21	192.1	1.055	2.1	17.3
17:22	192.0	1.051	2.0	16.1
17:23	192.0	1.056	1.5	21.2
17:24	192.1	1.053	1.7	18.8
17:25	192.0	1.053	2.4	16.6
17:26	192.0	1.055	2.0	18.5
17:27	192.0	1.054	2.1	17.1
17:28	191.9	1.052	2.0	15.8
17:29	191.8	1.053	2.0	18.1
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	192.0	1.057	2.0	18.1

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C ₀)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
8:16	3.96	10.04	0.00
8:17	3.98	10.03	0.00
8:18	3.96	10.05	0.00
8:19	3.96	10.04	0.00
8:20	3.97	10.04	0.00
8:21	3.94	10.05	0.00
8:22	3.98	10.02	0.00
8:23	3.96	10.03	0.00
8:24	3.97	10.03	0.00
8:25	3.93	10.05	0.00
8:26	3.95	10.03	0.00
8:27	3.94	10.04	0.00
8:28	3.97	10.02	0.00
8:29	3.95	10.04	0.00
8:30	3.97	10.03	0.00
8:31	3.97	10.03	0.00
8:32	3.97	10.02	0.00
8:33	4.01	9.99	0.00
8:34	3.95	10.03	0.00
8:35	3.94	10.03	0.00
8:36	3.95	10.03	0.00
8:37	3.97	10.02	0.00
8:38	3.98	10.01	0.00
8:39	3.93	10.03	0.00
8:40	3.92	10.04	0.00
8:41	3.94	10.03	0.00
8:42	3.96	10.01	0.00
8:43	3.94	10.07	0.00
8:44	3.93	10.11	0.00
8:45	3.90	10.14	0.00
8:46	3.91	10.14	0.00
8:47	3.92	10.14	0.00
8:48	3.91	10.15	0.00
8:49	3.95	10.17	0.00
8:50	3.95	10.21	0.00
8:51	3.94	10.23	0.00
8:52	3.92	10.24	0.00
8:53	3.92	10.27	0.00
8:54	3.92	10.34	0.00
8:55	3.95	10.32	0.00
8:56	3.92	10.35	0.00
8:57	3.88	10.45	0.00
8:58	3.92	11.10	0.00
8:59	3.94	12.94	0.00
9:00	3.93	13.08	0.00
9:01	3.90	13.28	0.00
9:02	3.92	13.29	0.00
9:03	3.89	13.73	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C ₀)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
9:04	3.91	13.80	0.00
9:05	3.92	13.67	0.00
9:06	3.93	13.57	0.00
9:07	3.94	12.99	0.00
9:08	3.95	13.63	0.00
9:09	3.90	13.45	0.00
9:10	3.93	12.91	0.00
9:11	3.93	12.76	0.00
9:12	3.95	13.52	0.00
9:13	3.94	10.51	0.00
9:14	3.93	10.03	0.00
9:15	3.94	10.01	0.00
9:16	3.93	10.02	
9:17	3.89	10.04	
9:18	3.95	10.00	
9:19	3.91	10.02	
9:20	3.90	10.02	
9:21	3.91	10.02	
9:22	3.91	10.01	
9:23	3.91	10.02	
9:24	3.91	10.01	
9:25	3.91	10.01	
9:26	3.92	10.01	
9:27	3.92	10.00	
9:28	3.91	10.01	
9:29	3.92	10.00	
9:30	3.92	9.99	
9:31	3.90	10.01	
9:32	3.92	10.01	
9:33	3.88	9.99	
9:34	3.88	9.99	
9:35	3.92	9.99	
9:36	3.92	9.98	
9:37	3.89	10.00	
9:38	3.88	10.01	
9:39	3.91	10.00	
9:40	3.91	10.00	
9:41	3.88	10.01	
9:42	3.94	9.98	0.00
9:43	3.89	10.01	0.00
9:44	3.90	10.00	0.00
9:45	3.89	10.01	0.00
9:46	3.92	9.99	0.00
9:47	3.93	9.98	0.00
9:48	3.90	9.99	0.00
9:49	3.89	10.00	0.00
9:50	3.92	9.98	0.01
9:51	3.89	10.00	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C ₀)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
9:52	3.91	9.99	0.00
9:53	3.90	9.99	0.00
9:54	3.91	9.98	0.00
9:55	3.90	9.98	0.00
9:56	3.91	9.98	0.00
9:57	3.91	9.98	0.00
9:58	3.93	9.97	0.00
9:59	3.89	9.99	0.00
10:00	3.92	9.97	0.00
10:01	3.93	9.96	0.00
10:02	3.92	9.97	0.01
10:03	3.92	9.96	0.02
10:04	3.93	9.96	0.01
10:05	3.92	9.96	0.01
10:06	3.91	9.97	0.01
10:07	3.92	9.96	0.01
10:08	3.92	9.96	0.01
10:09	3.95	9.94	0.01
10:10	3.94	9.95	0.01
10:11	3.91	9.96	0.00
10:12	3.87	9.99	0.01
10:13	3.89	9.97	0.01
10:14	3.87	9.99	0.01
10:15	3.92	9.96	0.00
10:16	3.95	9.94	0.01
10:17	3.89	9.97	0.00
10:18	3.87	9.98	0.00
10:19	3.91	9.96	0.00
10:20	3.87	9.98	0.00
10:21	3.92	9.95	0.00
10:22	3.92	9.95	0.00
10:23	3.93	9.94	0.00
10:24	3.89	9.97	0.00
10:25	3.90	9.96	0.00
10:26	3.91	9.96	0.00
10:27	3.93	9.94	0.00
10:28	3.90	9.96	0.00
10:29	3.91	9.95	0.01
10:30	3.87	9.97	0.01
10:31	3.92	9.94	0.01
10:32	3.92	9.94	0.01
10:33	3.89	9.96	0.01
10:34	3.93	9.93	0.01
10:35	3.90	9.95	0.01
10:36	3.90	9.95	0.01
10:37	3.92	9.94	0.01
10:38	3.93	9.93	0.01
10:39	3.92	9.94	0.01

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C ₀)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
10:40	3.90	9.94	0.01
10:41	3.91	9.94	0.01
10:42	3.92	9.93	
10:43	3.94	9.92	
10:44	3.92	9.94	
10:45	3.93	9.93	
10:46	3.93	9.93	
10:47	3.93	9.92	
10:48	3.94	9.91	
10:49	3.91	9.93	
10:50	3.89	9.94	
10:51	3.94	9.91	
10:52	3.92	9.92	
10:53	3.91	9.93	0.00
10:54	3.94	9.91	0.00
10:55	3.89	9.93	0.00
10:56	3.90	9.92	0.00
10:57	3.91	9.92	0.00
10:58	3.92	9.91	0.00
10:59	3.91	9.92	0.00
11:00	3.92	9.91	0.00
11:01	3.95	9.89	0.01
11:02	3.91	9.91	0.00
11:03	3.94	9.89	0.00
11:04	3.91	9.91	0.00
11:05	3.87	9.94	0.00
11:06	3.93	9.90	0.00
11:07	3.88	9.93	0.00
11:08	3.88	9.93	0.00
11:09	3.97	9.88	0.00
11:10	3.95	9.89	0.00
11:11	3.91	9.91	0.00
11:12	3.90	9.91	0.00
11:13	3.84	9.95	0.00
11:14	3.98	9.86	0.00
11:15	3.89	9.91	0.02
11:16	3.92	9.90	0.01
11:17	3.92	9.90	0.01
11:18	3.95	9.88	0.01
11:19	3.94	9.89	0.01
11:20	3.98	9.86	0.01
11:21	3.92	9.90	0.01
11:22	3.87	9.92	0.00
11:23	3.92	9.89	0.00
11:24	3.94	9.88	0.00
11:25	3.96	9.87	0.00
11:26	3.92	9.89	0.00
11:27	3.99	9.85	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C ₀)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
11:28	3.95	9.88	0.00
11:29	3.93	9.89	0.00
11:30	3.93	9.89	0.00
11:31	3.93	9.88	0.00
11:32	3.94	9.87	0.00
11:33	3.99	9.85	0.00
11:34	3.91	9.89	0.00
11:35	3.91	9.89	0.00
11:36	3.99	9.84	0.00
11:37	3.93	9.88	0.00
11:38	3.92	9.88	0.00
11:39	3.94	9.87	0.00
11:40	3.94	9.87	0.00
11:41	3.97	9.85	0.00
11:42	3.96	9.86	0.00
11:43	3.98	9.85	0.00
11:44	3.87	9.91	0.00
11:45	3.91	9.89	0.00
11:46	3.91	9.88	0.00
11:47	3.95	9.85	0.00
11:48	3.95	9.86	0.00
11:49	3.99	9.83	0.00
11:50	3.93	9.86	0.00
11:51	3.99	9.83	0.00
11:52	3.94	9.86	0.00
11:53	3.95	9.86	
11:54	3.92	9.88	
11:55	3.95	9.85	
11:56	3.98	9.84	
11:57	3.99	9.83	
11:58	4.01	9.82	
11:59	3.92	9.87	
12:00	3.94	9.86	
12:01	3.93	9.85	
12:02	4.01	9.81	
12:03	3.93	9.86	
12:04	3.95	9.84	
12:05	3.95	9.84	0.00
12:06	3.91	9.87	0.00
12:07	3.92	9.86	0.00
12:08	3.95	9.84	0.00
12:09	3.88	9.88	0.00
12:10	3.92	9.86	0.00
12:11	3.95	9.84	0.00
12:12	3.91	9.86	0.00
12:13	3.95	9.84	0.00
12:14	3.98	9.82	0.00
12:15	3.95	9.84	0.00

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Time Unit Status	O ₂ - Outlet % dry Valid	CO ₂ - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C _{obs})	3.93	10.16	0.00
Cal Gas Concentration (C _{MA})	10.97	10.96	12.50
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Average Zero Response (C _o)	0.05	0.06	0.02
Pretest System Cal Response	11.09	11.12	12.52
Posttest System Cal Response	11.08	10.80	12.24
Average Cal Response (C _M)	11.09	10.96	12.38
Corrected Run Average (Corr)	3.85	10.15	NA
12:16	4.00	9.81	0.00
12:17	3.98	9.82	0.00
12:18	3.92	9.85	0.00
12:19	3.93	9.85	0.00

Location: BASF Corporation - McIntosh, AL

Source: No. 7 Boiler

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:16	192.0	1.066	2.0	18.5
8:17	192.2	1.069	2.1	20.1
8:18	192.0	1.063	2.0	17.1
8:20	192.0	1.064	2.0	16.4
8:21	192.0	1.064	2.6	16.8
8:22	191.9	1.062	2.1	17.0
8:23	192.0	1.064	1.6	19.8
8:24	192.1	1.069	1.5	20.9
8:25	192.1	1.064	1.6	17.9
8:26	192.0	1.065	2.0	18.6
8:27	192.0	1.063	1.9	16.7
8:28	191.9	1.066	2.0	15.9
8:29	191.9	1.066	2.0	18.7
8:30	192.1	1.065	2.0	19.0
8:31	192.0	1.063	2.0	16.8
8:32	192.0	1.066	2.0	17.9
8:33	192.0	1.067	2.0	19.4
8:34	192.1	1.064	1.6	20.0
8:35	192.0	1.068	1.6	18.2
8:36	192.0	1.063	2.1	18.9
8:37	192.0	1.066	2.0	17.2
8:38	192.1	1.066	1.5	20.8
8:39	192.1	1.062	2.0	17.3
8:40	192.0	1.065	1.5	21.0
8:42	192.1	1.068	1.5	20.0
8:43	192.0	1.064	2.0	16.7
8:44	192.0	1.066	1.5	20.6
8:45	192.1	1.063	2.4	15.5
8:46	191.9	1.062	2.4	16.0
8:47	192.0	1.068	1.5	20.5
8:48	192.2	1.062	2.0	16.5
8:49	191.9	1.062	2.0	15.4
8:50	192.0	1.067	1.6	20.7
8:51	192.1	1.063	1.6	18.7
8:52	192.1	1.068	2.0	19.5
8:53	192.1	1.064	1.9	17.5
8:54	192.1	1.063	1.5	20.3
8:55	192.1	1.068	1.4	21.8
8:56	192.1	1.066	2.0	17.5
8:57	191.9	1.063	2.0	16.3
8:58	191.8	1.061	2.3	15.7
8:59	192.0	1.068	1.2	23.1
9:00	192.2	1.066	1.9	18.5
9:01	192.0	1.064	1.9	17.7
9:02	192.0	1.065	2.0	16.6
9:04	192.1	1.065	1.4	21.4
9:05	192.1	1.064	1.7	18.2
9:06	192.0	1.064	2.3	15.5
9:07	191.9	1.062	2.4	15.3
9:08	192.1	1.067	1.1	24.3
9:09	192.2	1.064	2.0	17.7
9:10	192.1	1.066	2.0	17.8
9:11	192.0	1.067	2.0	18.9
9:12	192.2	1.063	1.9	17.4
9:13	191.9	1.065	1.9	18.6
9:14	192.2	1.063	1.9	17.2

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:15	191.9	1.062	2.0	15.5
9:44	191.7	1.056	2.2	14.7
9:45	191.7	1.060	1.9	17.9
9:46	192.0	1.069	1.9	21.0
9:48	192.1	1.062	2.3	15.8
9:49	191.8	1.060	2.3	15.5
9:50	191.8	1.064	1.5	20.3
9:51	192.3	1.067	1.4	22.1
9:52	192.0	1.060	2.3	15.6
9:53	191.8	1.061	2.3	15.6
9:54	191.9	1.065	1.9	18.8
9:55	192.1	1.064	1.9	18.9
9:56	192.0	1.062	1.9	17.9
9:57	192.0	1.066	1.9	20.8
9:58	192.1	1.063	2.0	16.8
9:59	192.0	1.064	1.4	20.5
10:00	192.1	1.062	2.4	16.2
10:01	191.9	1.064	1.4	21.0
10:02	192.2	1.063	1.5	17.8
10:03	191.9	1.061	2.0	16.5
10:04	191.9	1.065	2.1	16.2
10:05	192.1	1.066	1.1	22.5
10:06	192.1	1.061	2.3	15.7
10:07	191.9	1.064	1.5	20.5
10:08	192.0	1.061	2.3	15.3
10:09	192.1	1.068	1.4	22.5
10:11	192.1	1.063	2.0	17.3
10:12	191.9	1.061	1.9	15.5
10:13	191.8	1.060	2.5	16.9
10:14	192.1	1.066	1.2	23.3
10:15	192.2	1.061	2.4	16.2
10:16	192.0	1.061	2.4	16.4
10:17	191.9	1.065	1.4	20.7
10:18	192.1	1.063	1.6	18.2
10:19	192.1	1.062	1.9	19.4
10:20	192.0	1.062	1.5	17.8
10:21	191.9	1.062	1.9	17.4
10:22	192.0	1.066	2.0	17.1
10:23	192.2	1.064	1.4	21.6
10:24	192.2	1.065	1.4	21.2
10:25	192.0	1.060	2.3	15.7
10:26	191.8	1.063	2.5	16.4
10:27	192.1	1.064	1.5	20.8
10:28	192.0	1.060	2.2	15.5
10:29	192.0	1.065	1.4	20.7
10:30	192.0	1.060	2.4	15.4
10:31	192.0	1.063	2.5	16.8
10:33	192.0	1.063	1.3	21.1
10:34	192.1	1.062	1.6	19.3
10:35	192.1	1.067	1.4	21.4
10:36	192.1	1.062	1.6	17.8
10:37	192.0	1.063	1.9	17.7
10:38	192.1	1.063	1.5	19.6
10:39	192.1	1.064	1.5	19.8
10:40	192.1	1.064	1.5	20.2

Location: BASF Corporation - McIntosh, AL

Source: No. 7 Boiler

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:41	192.1	1.063	1.9	16.9
10:53	191.7	1.054	1.9	13.5
10:55	191.7	1.057	2.0	14.7
10:56	191.8	1.062	1.1	23.1
10:57	192.2	1.065	1.9	17.2
10:58	192.0	1.067	2.0	17.8
10:59	192.0	1.060	2.4	15.7
11:00	191.8	1.058	2.3	15.6
11:01	192.0	1.067	1.2	22.3
11:02	192.3	1.063	1.5	20.3
11:03	192.1	1.059	2.4	15.9
11:04	192.0	1.060	2.5	17.4
11:05	192.1	1.062	2.0	17.5
11:06	192.1	1.064	1.4	20.7
11:07	192.0	1.061	1.9	16.5
11:08	192.0	1.060	2.5	17.3
11:09	192.1	1.064	1.5	20.4
11:10	192.0	1.058	2.4	15.5
11:11	191.9	1.063	1.5	20.7
11:12	192.2	1.063	1.5	20.9
11:13	192.1	1.061	2.0	16.9
11:14	192.0	1.062	1.4	20.1
11:15	192.1	1.062	1.9	17.3
11:17	192.0	1.061	2.0	16.6
11:18	191.9	1.062	2.0	18.7
11:19	192.2	1.064	1.9	18.8
11:20	192.0	1.062	2.0	19.3
11:21	192.3	1.063	1.6	20.1
11:22	192.0	1.058	2.4	15.5
11:23	191.9	1.060	2.4	15.5
11:24	191.9	1.062	1.4	21.3
11:25	192.3	1.062	1.6	18.8
11:26	192.0	1.061	2.0	17.5
11:27	192.2	1.065	1.3	22.6
11:28	192.2	1.060	2.4	16.2
11:29	192.0	1.059	2.4	15.5
11:30	192.1	1.066	1.9	24.1
11:31	192.2	1.059	2.4	15.7
11:32	192.0	1.060	2.0	18.8
11:33	192.2	1.062	2.4	16.5
11:34	192.0	1.060	2.5	17.0
11:35	192.1	1.064	1.5	20.1
11:36	192.1	1.060	2.0	17.0
11:37	192.0	1.059	2.0	17.2
11:39	192.2	1.065	1.4	21.6
11:40	192.0	1.057	2.4	15.7
11:41	192.0	1.063	1.4	20.7
11:42	192.2	1.062	1.7	17.9
11:43	192.1	1.062	2.0	18.0
11:44	192.0	1.058	2.4	15.6
11:45	192.1	1.064	1.3	21.3
11:46	192.1	1.059	2.4	15.7
11:47	192.0	1.063	1.4	20.8
11:48	192.1	1.060	1.9	17.0
11:49	192.0	1.059	2.0	15.8

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Date: 6/11/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:50	192.2	1.065	1.5	21.4
11:51	192.1	1.060	2.0	16.6
11:52	191.9	1.058	2.0	15.7
12:05	191.7	1.054	2.0	14.8
12:06	191.7	1.057	2.0	18.1
12:07	192.1	1.062	2.0	19.9
12:08	192.0	1.065	1.5	18.4
12:09	192.0	1.059	2.0	17.0
12:10	191.9	1.060	2.0	17.7
12:11	191.9	1.058	1.9	15.9
12:12	192.0	1.059	1.6	20.0
12:13	192.1	1.062	1.6	19.1
12:14	192.1	1.062	1.3	22.0
12:15	192.3	1.062	2.0	18.8
12:16	192.0	1.057	2.4	15.7
12:17	192.0	1.059	1.9	18.3
12:18	192.2	1.063	2.0	18.8
12:19	192.1	1.062	2.1	19.4

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	192.0	1.063	1.9	18.3

Appendix D


Location **BASF Corporation - McIntosh, AL**

Source **Boiler No. 7**

Project No. **AST-2024-2594**

Parameters **PAH/PCB**

Date	Nozzle ID	Nozzle Diameter (in.)					Criteria	Material
6/11/24	2594-1	#1 0.248	#2 0.248	#3 0.248	Dn (Average) 0.248	Difference 0.000	≤ 0.004 in.	glass
6/11/24	2594-2	0.246	0.246	0.247	0.246	0.001		glass
Date	Pitot ID	Evidence of damage?	Evidence of mis-alignment?	Calibration or Repair required?				
6/11/24	BR-5-1	no	no	no				
6/11/24	BR-5-2	no	no	no				
Date	Probe or Thermocouple ID	Reference Temp. (°F)	Indicated Temp. (°F)	Difference	Criteria	Probe Length		
6/11/24	BR-5-1	85.0	85.0	0.0%	± 1.5 % (absolute)	5 '		
6/11/24	BR-5-2	93.0	92.0	0.2%		5 '		
Field Balance Check								
Date	06/11/24	06/12/24	06/13/24	06/14/24				
Balance ID:	2B -L-1	2B -L-1	2B -L-1	2B -L-1				
Certified Weight ID:	DEC-2KG-4	DEC-2KG-4	DEC-2KG-4	DEC-2KG-4				
Certified Weight Expiration:	12/24/24	12/24/24	12/24/24	12/24/24				
Certified Weight (g):	2000.0	2000.0	2000.0	2000.0				
Measured Weight (g):	2000.1	2000.2	2000.1	2000.0				
Weight Difference (g):	-0.1	-0.2	-0.1	0.0	--	--		
Date	Barometric Pressure	Evidence of damage?	Reading Verified	Calibration or Repair required?	Barometer ID			
6/11/24	Barometer	No	Yes	No	BTR-B11			
Date	Meter Box ID	Positive Pressure Leak Check						
6/11/24	8-1	Pass						
		--						
Reagent Name	Lot/ID Number	Field Prep performed?	If Field Prep Performed:					
			Field Lot Number	Date Prepared	Prepared By			
ACETONE	232060	No						
TOLUENE	235540	No						
DI H2O		No						

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
Issuing Department	Tech Services	Page:	1 of 1


Equipment Detail

Model: Type S
ID: BR-5-1

Calibration Detail

Time: 19:30
T_s: 85 °F
Pb: 29.98 in. Hg
Std Pitot ID: BTR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	σ	ΔPs	σ		
	in. WC	in. WC	in. WC	in. WC	Cp(a) Deviation	in. WC	Cp(b) Deviation		
20	0.09	0.10	0.10	0.15	0.808	0.008	0.15	0.808	0.008
30	0.20	0.20	0.20	0.31	0.795	-0.005	0.32	0.783	-0.017
40	0.36	0.36	0.36	0.55	0.801	0.001	0.56	0.794	-0.006
50	0.55	0.55	0.55	0.84	0.801	0.001	0.83	0.806	0.006
60	0.80	0.80	0.80	1.20	0.808	0.008	1.20	0.808	0.008
70	1.09	1.10	1.10	1.65	0.808	0.008	1.65	0.808	0.008
80	1.42	1.40	1.40	2.20	0.790	-0.010	2.15	0.799	-0.001
90	1.80	1.80	1.80	2.85	0.787	-0.013	2.80	0.794	-0.006
EPA Method 2 Section 10.1.3 QA/QC									
50	0.55	0.55	0.55	0.84	0.801	0.001	0.83	0.806	0.006
50	0.55	0.55	0.55	0.84	0.801	0.001	0.83	0.806	0.006
Average				0.800	0.007		0.800	0.008	
Acceptability Criteria				--	≤ 0.01		--	≤ 0.01	
				Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) = 0.000		

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
Issuing Department	Tech Services	Page:	1 of 1


Equipment Detail

Model: Type S
ID: BR-5-1

Calibration Detail

Time: 11:00
T_s: 88 °F
Pb: 30.15 in. Hg
Std Pitot ID: TR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs in. WC	Cp(a)	σ Deviation	ΔPs in. WC	Cp(b)	σ Deviation
	in. WC	in. WC	in. WC						
20	0.09	0.10	0.10	0.15	0.808	0.004	0.15	0.808	0.003
30	0.20	0.20	0.20	0.31	0.795	-0.009	0.31	0.795	-0.010
40	0.36	0.36	0.36	0.54	0.808	0.004	0.54	0.808	0.003
50	0.55	0.55	0.55	0.83	0.806	0.002	0.83	0.806	0.001
60	0.80	0.80	0.80	1.20	0.808	0.004	1.20	0.808	0.003
70	1.09	1.09	1.10	1.65	0.806	0.002	1.65	0.806	0.001
80	1.42	1.42	1.40	2.20	0.793	-0.011	2.15	0.802	-0.003
90	1.80	1.80	1.80	2.70	0.808	0.004	2.70	0.808	0.003
EPA Method 2 Section 10.1.3 QA/QC									
50	0.55	0.55	0.55	0.83	0.806	0.002	0.83	0.806	0.001
50	0.55	0.55	0.55	0.83	0.806	0.002	0.83	0.806	0.001
Average					0.804	0.005		0.805	0.004
Acceptability Criteria					--	≤ 0.01		--	≤ 0.01
					Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) = 0.001	

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
Issuing Department	Tech Services	Page:	1 of 1


Equipment Detail

Model: Type S
ID: BR-5-2

Calibration Detail

Time: 20:00
T_s: 84 °F
Pb: 29.98 in. Hg
Std Pitot ID: BTR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs		σ	ΔPs		σ
	in. WC	in. WC	in. WC	in. WC	Cp(a)	Deviation	in. WC	Cp(b)	Deviation
20	0.09	0.10	0.10	0.15	0.808	0.009	0.15	0.808	0.008
30	0.20	0.20	0.20	0.31	0.795	-0.004	0.32	0.783	-0.017
40	0.36	0.36	0.36	0.54	0.808	0.009	0.55	0.801	0.001
50	0.56	0.55	0.55	0.83	0.806	0.007	0.84	0.801	0.001
60	0.80	0.80	0.80	1.25	0.792	-0.007	1.20	0.808	0.008
70	1.09	1.10	1.10	1.65	0.808	0.009	1.65	0.808	0.008
80	1.42	1.40	1.40	2.25	0.781	-0.018	2.20	0.790	-0.010
90	1.80	1.80	1.80	2.80	0.794	-0.005	2.75	0.801	0.001
EPA Method 2 Section 10.1.3 QA/QC									
50	0.56	0.55	0.55	0.84	0.801	0.002	0.83	0.806	0.006
50	0.56	0.55	0.55	0.84	0.801	0.002	0.83	0.806	0.006
Average				0.799	0.009		0.800	0.007	
Acceptability Criteria				--	≤ 0.01		--	≤ 0.01	
				Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) =	0.001	

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
Issuing Department	Tech Services	Page:	1 of 1

Equipment Detail

Model: Type S
ID: BR-5-2


Calibration Detail

Time: 11:45
T_s: 82 °F
Pb: 30.02 in. Hg
Std Pitot ID: BTR-STD-REF
C_{pstd}: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	Cp(a)	σ Deviation	ΔPs	Cp(b)	σ Deviation
	in. WC	in. WC	in. WC	in. WC			in. WC		
20	0.09	0.10	0.10	0.15	0.808	0.008	0.15	0.808	0.007
30	0.20	0.20	0.20	0.31	0.795	-0.005	0.31	0.795	-0.006
40	0.36	0.36	0.36	0.55	0.801	0.001	0.55	0.801	0.000
50	0.56	0.56	0.56	0.85	0.804	0.004	0.85	0.804	0.003
60	0.80	0.80	0.80	1.20	0.808	0.008	1.25	0.792	-0.009
70	1.10	1.10	1.10	1.70	0.796	-0.004	1.65	0.808	0.007
80	1.43	1.45	1.45	2.25	0.795	-0.005	2.25	0.795	-0.006
90	1.81	1.80	1.80	2.80	0.794	-0.006	2.75	0.801	0.000
EPA Method 2 Section 10.1.3 QA/QC									
50	0.56	0.56	0.56	0.86	0.799	-0.001	0.85	0.804	0.003
50	0.56	0.56	0.56	0.86	0.799	-0.001	0.85	0.804	0.003
Average					0.800	0.005	0.801		
Acceptability Criteria					--	≤ 0.01	--		
					Cp(a)-Cp(b) ≤ 0.01		Cp(a)-Cp(b) = 0.001		

Personnel

Calibrated By: Evan Jones
Calibration Date: 8/15/24
Reviewed By: Jason LaCroix

	DGM Calibration-Orifices	Document ID	620.004
		Revision	24.0
		Effective Date	1/31/24
Issuing Department	Tech Services	Page	1 of 1

Equipment Detail - Dry Gas Meter

Console ID: 8-1
 Meter S/N: 8-1
 Critical Orifice S/N: CO-1788

Calibration Detail

Initial Barometric Pressure, in. Hg (P _b)		29.85					
Final Barometric Pressure, in. Hg (P _b _f)		30.01					
Average Barometric Pressure, in. Hg (P _b)		29.93					
Critical Orifice ID (Y)	30	30	25	25	12	12	
K' Factor, ft ³ ·R ^{1/2} / in. WC·min (K')	0.8312	0.8312	0.6835	0.684	0.3301	0.330	
Vacuum Pressure, in. Hg (V _p)	15.0	15.0	17.0	17.0	15.0	15.0	
Initial DGM Volume, ft ³ (V _m)	289.810	284.010	275.910	241.010	203.910	193.310	
Final DGM Volume, ft ³ (V _m _f)	295.180	289.380	282.138	247.297	209.015	198.419	
Total DGM Volume, ft ³ (V _m)	5.370	5.370	6.228	6.287	5.105	5.109	
Ambient Temperature, °F (T _a)	73	73	73	73	73	73	
Initial DGM Temperature, °F (T _m)	84	84	83	81	75	75	
Final DGM Temperature, °F (T _m _f)	84	84	84	82	78	75	
Average DGM Temperature, °F (T _m)	84	84	84	82	77	75	
Elapsed Time (Θ)	5.00	5.00	7.00	7.00	12.00	12.00	
Meter Orifice Pressure, in. WC (ΔH)	4.00	4.00	2.60	2.60	0.60	0.60	
Standard Meter volume, ft ³ (V _{mstd})	5.2659	5.2659	6.0921	6.1725	5.0341	5.0522	
Standard Critical Orifice Volume, ft ³ (V _{cr})	5.3895	5.3895	6.2045	6.2045	5.1368	5.1368	
Meter Correction Factor (Y)	1.023	1.023	1.018	1.005	1.020	1.017	
Tolerance --	0.006	0.006	0.000	0.013	0.002	0.001	
Orifice Calibration Value (ΔH @)	1.899	1.899	1.821	1.828	1.816	1.821	
Tolerance --	0.052	0.052	0.026	0.020	0.031	0.026	
Orifice Cal Check --	1.15		1.14		0.67		
Meter Correction Factor (Y)	1.018						
Orifice Calibration Value (ΔH @)	1.847						
Positive Pressure Leak Check	Yes						

Equipment Detail - Thermocouple Sensor

Reference Calibrator Make: piecal
 Reference Calibrator Model: 520B
 Reference Calibrator S/N: 127355


Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	1	461	-0.2	1
68	528	67	527	0.2	1
100	560	99	559	0.2	1
223	683	225	685	-0.3	2
248	708	250	710	-0.3	2
273	733	274	734	-0.1	1
300	760	302	762	-0.3	2
400	860	401	861	-0.1	1
500	960	500	960	0.0	0
600	1,060	601	1,061	-0.1	1
700	1,160	704	1,164	-0.3	4
800	1,260	803	1,263	-0.2	3
900	1,360	905	1,365	-0.4	5
1,000	1,460	1,005	1,465	-0.3	5
1,100	1,560	1,106	1,566	-0.4	6
1,200	1,660	1,206	1,666	-0.4	6

Personnel

Calibration By: BRYAN ALLEN
 Calibration Date: 5/15/2024
 Reviewed By: SC

BASFHWC-McIntosh-007813

	DGM Calibration-Orifices	Document ID	620.004
		Revision	24.0
		Effective Date	1/31/24
Issuing Department	Tech Services	Page	1 of 1

Equipment Detail - Dry Gas Meter

Console ID: 8-1
Meter S/N: 8-1
Critical Orifice S/N: CO-1788

Calibration Detail

Initial Barometric Pressure, in. Hg	(P _b _i)	30.06					
Final Barometric Pressure, in. Hg	(P _b _F)	30.06					
Average Barometric Pressure, in. Hg	(P _b)	30.06					
Critical Orifice ID	(Y)	30	30	20	20	12	12
K' Factor, ft ³ ·R ^{1/2} / in. WC·min	(K')	0.8312	0.8312	0.5414	0.5414	0.3301	0.3301
Vacuum Pressure, in. Hg	(V _p)	15.0	15.0	18.0	18.0	20.0	20.0
Initial DGM Volume, ft ³	(V _m _i)	718.610	724.410	730.210	736.910	749.010	754.410
Final DGM Volume, ft ³	(V _m _F)	724.041	729.860	736.655	743.373	754.269	759.686
Total DGM Volume, ft ³	(V _m)	5.431	5.450	6.445	6.463	5.259	5.276
Ambient Temperature, °F	(T _a)	72	73	74	74	75	75
Initial DGM Temperature, °F	(T _m _i)	69	70	70	72	75	76
Final DGM Temperature, °F	(T _m _F)	70	70	72	74	76	77
Average DGM Temperature, °F	(T _m)	70	70	71	73	76	77
Elapsed Time	(Θ)	5.00	5.00	9.00	9.00	12.00	12.00
Meter Orifice Pressure, in. WC	(ΔH)	4.00	4.00	1.80	1.80	0.71	0.71
Standard Meter volume, ft ³	(V _m std)	5.4952	5.5092	6.4681	6.4618	5.2196	5.2267
Standard Critical Orifice Volume, ft ³	(V _c r)	5.4180	5.4129	6.3402	6.3402	5.1495	5.1495
Meter Correction Factor	(Y)	0.986	0.983	0.980	0.981	0.987	0.985
Tolerance	--	0.002	0.001	0.003	0.002	0.003	0.002
Orifice Calibration Value	(ΔH @)	1.939	1.941	2.048	2.040	2.153	2.149
Tolerance	--	0.106	0.104	0.003	0.005	0.108	0.104
Orifice Cal Check	--	0.36		0.53		0.53	
Meter Correction Factor	(Y)	0.984					
Orifice Calibration Value	(ΔH @)	2.045					
Positive Pressure Leak Check		Yes					

Equipment Detail - Thermocouple Sensor

Reference Calibrator Make: piecal
Reference Calibrator Model: 520B
Reference Calibrator S/N: 127355

Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	2	462	-0.4	2
68	528	68	528	0.0	0
100	560	100	560	0.0	0
223	683	225	685	-0.3	2
248	708	250	710	-0.3	2
273	733	275	735	-0.3	2
300	760	302	762	-0.3	2
400	860	400	860	0.0	0
500	960	500	960	0.0	0
600	1,060	602	1,062	-0.2	2
700	1,160	704	1,164	-0.3	4
800	1,260	804	1,264	-0.3	4
900	1,360	904	1,364	-0.3	4
1,000	1,460	1,005	1,465	-0.3	5
1,100	1,560	1,106	1,566	-0.4	6
1,200	1,660	1,206	1,666	-0.4	6

Personnel

Calibration By: Bryan Allen
Calibration Date: 8/13/2024
Reviewed By: Evan Jones

BASFHWC-McIntosh-007814

Location BASF Corporation - McIntosh, AL

Source Boiler No. 7

Project No. AST-2024-2594

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Make	CAI	CAI	CAI
Model	700	700	700
S/N	1811021	1811021	2001013
Operating Range	0-25	0-25	0-25
Cylinder ID			
Zero	NA	NA	NA
Low	NA	NA	EB0085389
Mid	EB0100315	EB0100315	EB0085389
High	EB0100315	EB0100315	EB0085389
Cylinder Certified Values			
Zero	NA	NA	NA
Low	NA	NA	87.4
Mid	22.9	22.8	87.4
High	22.9	22.8	87.4
Cylinder Expiration Date			
Zero	NA	NA	NA
Low	NA	NA	10/24/29
Mid	10/8/30	10/8/30	10/24/29
High	10/8/30	10/8/30	10/24/29
Type of Sample Line	Heated Sample Line		

Calibration Data

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/11/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	4.00	10.00	0.00
Span Between			
Low	4.00	10.00	0.00
High	20.00	50.00	0.00
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	10.97	10.96	12.50
High	22.90	22.80	21.50
Response Time (seconds)	50.00	50.00	32.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.00	0.03
Low	NA	NA	7.45
Mid	11.07	11.10	12.45
High	22.92	22.84	21.50
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.00	0.00
Low	NA	NA	-0.93
Mid	0.44	0.61	-0.50
High	0.09	0.18	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/12/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	3.94	10.02	0.12
Span Between			
Low	3.94	10.02	0.19
High	20.00	50.10	0.31
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	10.97	10.96	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.46
Mid	11.07	11.10	12.46
High	22.90	22.80	21.48
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.00	0.00
Low	NA	NA	-0.44
Mid	0.44	0.61	-0.23
High	0.00	0.00	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/13/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	3.94	10.02	0.12
Span Between			
Low	3.94	10.02	0.19
High	20.00	50.10	0.31
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	10.97	10.96	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.03	0.07
Low	NA	NA	7.52
Mid	11.19	11.19	12.53
High	22.92	22.76	21.48
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.13	0.00
Low	NA	NA	-0.25
Mid	0.96	1.01	0.10
High	0.09	0.18	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Calibration Data

Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date: 6/14/24

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Expected Average Concentration	3.94	10.02	0.12
Span Between			
Low	3.94	10.02	0.19
High	20.00	50.10	0.31
Desired Span	22.90	22.80	25.00
Low Range Gas			
Low	NA	NA	6.25
High	NA	NA	8.75
Mid Range Gas			
Low	9.16	9.12	11.25
High	13.74	13.68	13.75
High Range Gas			
Low	NA	NA	20.00
High	NA	NA	22.50
Actual Concentration (% or ppm)			
Zero	0.00	0.00	0.00
Low	NA	NA	7.50
Mid	10.97	10.96	12.50
High	22.90	22.80	21.50
Upscale Calibration Gas (C_{MA})	Mid	Mid	Mid
Instrument Response (% or ppm)			
Zero	0.00	0.03	0.04
Low	NA	NA	7.38
Mid	11.21	11.22	12.52
High	22.93	22.82	21.48
Performance (% of Span or Cal. Gas Conc.)			
Zero	0.00	0.13	0.00
Low	NA	NA	-1.85
Mid	1.05	1.14	0.12
High	0.13	0.09	0.00
Status			
Zero	PASS	PASS	PASS
Low	NA	NA	PASS
Mid	PASS	PASS	PASS
High	PASS	PASS	PASS

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 1			
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Pretest System Upscale Response	11.08	11.12	12.45
Posttest System Upscale Response	11.11	10.89	12.32
Run 2			
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Pretest System Upscale Response	11.11	10.89	12.32
Posttest System Upscale Response	11.11	10.90	12.29
Run 3			
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Pretest System Upscale Response	11.14	11.05	12.46
Posttest System Upscale Response	11.11	10.84	12.56
Run 4			
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Pretest System Upscale Response	11.11	10.84	12.56
Posttest System Upscale Response	11.11	10.79	12.65
Run 5			
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Pretest System Upscale Response	10.96	11.07	12.53
Posttest System Upscale Response	11.09	10.82	12.44
Run 6			
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Pretest System Upscale Response	11.09	10.82	12.44
Posttest System Upscale Response	11.11	10.82	12.53
Run 7			
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Pretest System Upscale Response	11.09	11.12	12.52
Posttest System Upscale Response	11.08	10.80	12.24

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 1 Date 6/11/24			
Span Value	22.90	22.80	25.00
Initial Instrument Zero Cal Response	0.00	0.00	0.03
Initial Instrument Upscale Cal Response	11.07	11.10	12.45
Pretest System Zero Response	0.09	0.16	0.03
Posttest System Zero Response	0.09	0.05	0.00
Pretest System Upscale Response	11.08	11.12	12.45
Posttest System Upscale Response	11.11	10.89	12.32
Bias (%)			
Pretest Zero	0.39	0.70	NA
Posttest Zero	0.39	0.22	NA
Pretest Span	0.04	0.09	NA
Posttest Span	0.17	-0.92	NA
Drift (%)			
Zero	0.00	-0.48	-0.12
Mid	0.13	-1.01	-0.52
Run 2 Date 6/11/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.03
Instrument Upscale Cal Response	11.07	11.10	12.46
Pretest System Zero Response	0.09	0.05	0.00
Posttest System Zero Response	0.08	0.08	0.00
Pretest System Upscale Response	11.11	10.89	12.32
Posttest System Upscale Response	11.11	10.90	12.29
Bias (%)			
Pretest Zero	0.39	0.22	NA
Posttest Zero	0.35	0.35	NA
Pretest Span	0.17	-0.92	NA
Posttest Span	0.17	-0.88	NA
Drift (%)			
Zero	-0.04	0.13	0.00
Mid	0.00	0.04	-0.12
Run 3 Date 6/12/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.00
Instrument Upscale Cal Response	11.07	11.10	12.46
Pretest System Zero Response	0.05	0.10	0.00
Posttest System Zero Response	0.08	0.11	0.01
Pretest System Upscale Response	11.14	11.05	12.46
Posttest System Upscale Response	11.11	10.84	12.56
Bias (%)			
Pretest Zero	0.22	0.44	NA
Posttest Zero	0.35	0.48	NA
Pretest Span	0.31	-0.22	NA
Posttest Span	0.17	-1.14	NA
Drift (%)			
Zero	0.13	0.04	0.04
Mid	-0.13	-0.92	0.40

Bias/Drift Determinations

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 4 Date 6/12/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.00	0.00
Instrument Upscale Cal Response	11.07	11.10	12.46
Pretest System Zero Response	0.08	0.11	0.01
Posttest System Zero Response	0.08	0.09	0.07
Pretest System Upscale Response	11.11	10.84	12.56
Posttest System Upscale Response	11.11	10.79	12.65
Bias (%)			
Pretest Zero	0.35	0.48	NA
Posttest Zero	0.35	0.39	NA
Pretest Span	0.17	1.14	NA
Posttest Span	0.17	1.36	NA
Drift (%)			
Zero	0.00	-0.09	0.24
Mid	0.00	-0.22	0.36
Run 5 Date 6/13/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.03	0.07
Instrument Upscale Cal Response	11.19	11.19	12.53
Pretest System Zero Response	0.04	0.08	0.07
Posttest System Zero Response	0.08	0.09	0.07
Pretest System Upscale Response	10.96	11.07	12.53
Posttest System Upscale Response	11.09	10.82	12.44
Bias (%)			
Pretest Zero	0.17	0.22	NA
Posttest Zero	0.35	0.26	NA
Pretest Span	1.00	0.53	NA
Posttest Span	0.44	1.62	NA
Drift (%)			
Zero	0.17	0.04	0.00
Mid	0.57	-1.10	-0.36
Run 6 Date 6/13/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.03	0.07
Instrument Upscale Cal Response	11.19	11.19	12.53
Pretest System Zero Response	0.08	0.09	0.07
Posttest System Zero Response	0.12	0.00	0.07
Pretest System Upscale Response	11.09	10.82	12.44
Posttest System Upscale Response	11.11	10.82	12.53
Bias (%)			
Pretest Zero	0.35	0.26	NA
Posttest Zero	0.52	0.13	NA
Pretest Span	0.44	1.62	NA
Posttest Span	0.35	1.62	NA
Drift (%)			
Zero	0.17	-0.39	0.00
Mid	0.09	0.00	0.36

Bias/Drift Determinations

Location: BASF Corporation - McIntosh, AL

Source: Boiler No. 7

Project No.: AST-2024-2594

Parameter	O ₂ - Outlet	CO ₂ - Outlet	THC - Outlet
Run 7 Date 6/14/24			
Span Value	22.90	22.80	25.00
Instrument Zero Cal Response	0.00	0.03	0.04
Instrument Upscale Cal Response	11.21	11.22	12.52
Pretest System Zero Response	0.04	0.08	0.04
Posttest System Zero Response	0.06	0.04	0.00
Pretest System Upscale Response	11.09	11.12	12.52
Posttest System Upscale Response	11.08	10.80	12.24
Bias (%)			
Pretest Zero	0.17	0.22	NA
Posttest Zero	0.26	0.04	NA
Pretest Span	0.52	0.44	NA
Posttest Span	0.57	1.84	NA
Drift (%)			
Zero	0.09	-0.18	-0.16
Mid	-0.04	-1.40	-1.12



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12022

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0100315	Certification Date:	10/10/2022
Product ID Number:	125372	Expiration Date:	10/08/2030
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0100315.20220803-0	Lot Number:	EB0100315.20220803
Customer PO. NO.:		Tracking Number:	095686587
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G2.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	22.8 %	±0.10 %	FTIR	10/10/2022
Oxygen	22.9 %	±0.13 %	MPA	08/16/2022
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC237232	CC237232.20180504	07/21/2026	GMIS	N2	O2	24 %	0.497	071001
EB0097897	EB0097897.20210412	05/18/2030	GMIS	N2	CO2	19.46 %	0.15	C1847810.03

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
O2	MPA	Thermo	410i	1162980025	08/16/2022
CO2	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	10/09/2022

SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Jasmine Godfrey

Jasmine Godfrey
Analytical Chemist

Assay Laboratory, Red Ball TGS
BASFTWC-Memoish-007824
Version 02-J, Revised on 2018-09-17



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12021

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0085389	Certification Date:	10/26/2021
Product ID Number:	125534	Expiration Date:	10/24/2029
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0085389.20211019-0	Lot Number:	EB0085389.20211019
Customer PO. NO.:		Tracking Number:	084096089
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G2.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Propane	87.4 PPM	±0.8 PPM	FTIR	10/26/2021
Nitrogen	Balance			

Analytical Measurement Data Available Online.

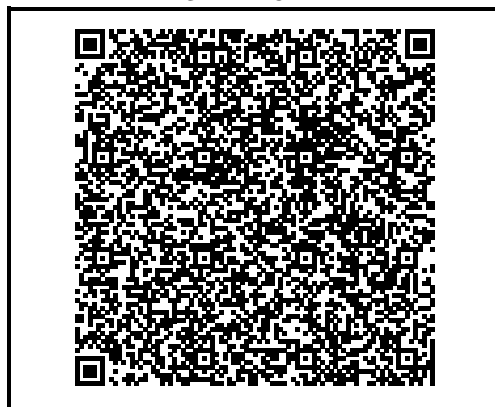
Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
EB0102900	EB0102900.20171121	03/16/2027	GMIS	N2	C3H8	101.1 PPM	0.442	2644a
EB0102998	EB0102998.20171121	03/16/2027	GMIS	N2	C3H8	100.9 PPM	0.442	2644a

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C3H8	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	10/12/2021

SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Anthony Cyr
Assistant Operations Manager
Assay Laboratory, Red Ball TGS
BASFTWC-Memoish-007825
Version 02-J, Revised on 2018-09-17



Location: BASF Corporation - McIntosh, AL
Source: Boiler No. 7
Project No.: AST-2024-2594
Date 6/10/24

Method Criteria		EPA
Parameter		O2
	Make	CAI
	Model	700
	S/N	1811021
	Span	25.0
Cylinder Number ID		
	Zero	NA
	Mid	EB0089925
	High	EB0100315
Cylinder Certified Values		
	Zero	0.0
	Mid	10.97
	High	22.9
Instrument Response (% or ppm)		
	Zero	0.0
	Mid	11.0
	High	22.9
Calibration Gas Selection (% of Span)		
	Mid	43.9
	High	91.6
Calibration Error Performance (% of Span)		
	Zero	0.0
	Mid	-0.1
	High	-0.2
Linearity (% of Range)		
		0.0

Analyzer Make: CAI
Analyzer Model: 700
Analyzer SN: 1811021
Enviroics ID: 9115
Component/Balance Gas: O2/N2
Cylinder Gas ID (Dilution): EB0100315
Cylinder Gas Concentration (Dilution), %: 22.9
Cylinder Gas ID (Mid-Level): EB0089925
Cylinder Gas Concentration (Mid-Level), %: 10.97


Target Mass Flow Contollers	Target Dilution (%)	Target Flow Rate lpm	Target Concentration (%)	Actual Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error (± 2 %)
10L/10L*	80.0	7.0	18.3	18.3	18.4	18.5	18.4	18.42	0.12	0.6%
10L/10L*	50.0	7.0	11.5	11.5	11.5	11.5	11.5	11.46	-0.04	-0.4%
10L/1L	20.0	4.0	4.6	4.6	4.5	4.6	4.5	4.55	-0.05	-1.2%
10L/1L	10.0	4.0	2.3	2.3	2.3	2.3	2.3	2.30	0.00	0.0%

*Not all AST Enviroics Units have 2-10L Mass Flow Controllers. For these units the 90% @ 7lpm and 80% @ 7lpm injections will not be conducted.

Average Analyzer Concentration (%)	Injection 1 Error (± 2 %)	Injection 2 Error (± 2 %)	Injection 3 Error (± 2 %)
18.42	0.0%	0.3%	-0.3%
11.46	0.1%	-0.1%	-0.1%
4.55	-0.1%	0.3%	-0.1%
2.30	0.4%	0.0%	-0.4%

Mid-Level Supply Gas Calibration Direct to Analyzer

Calibration Gas Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error (± 2 %)
10.97	10.9	10.9	10.9	10.90	-0.07	-0.7%

	Mass Flow Controller Calibration	Document ID	620.009
		Revision	22.0
		Effective Date	12/16/22
Issuing Department	Tech Services	Page	1 of 1

Dilution System Make:	EnviroNics
Dilution System Model:	4040
Dilution System S/N:	9115
Calibration Equipment Make:	Alicat Scientific
Calibration Equipment Model:	M-10SLPD/5MM-D/5M, M-1SLPM-D/5M
Flow Cell S/N:	463184
Flow Cell S/N:	463183
Calibration Gas:	Nitrogen
Barometric Pressure, mmHg:	30.27
Ambient Temperature, °F:	65

Mass Flow Controller ID	#1			# 2			# 3		
Size, ccm:	10,000			10,000			1,000		
Make:	Teledyne			Teledyne			Teledyne		
Model:	Hastings EFC-202			Hastings EFC-202			Hastings EFC-202		
S/N:	0963707015			0963707019			0963709002		
	Set Flow cc/min	True Flow cc/min	Difference	Set Flow cc/min	True Flow cc/min	Difference	Set Flow cc/min	True Flow cc/min	Difference
5%	500	513	2.6%	500	514	2.8%	50	51	2.0%
10%	1,000	1,053	5.3%	1,000	1,040	4.0%	100	102	2.0%
20%	2,000	2,110	5.5%	2,000	2,089	4.5%	200	205	2.5%
30%	3,000	3,160	5.3%	3,000	3,122	4.1%	300	306	2.0%
40%	4,000	4,192	4.8%	4,000	4,143	3.6%	400	407	1.8%
50%	5,000	5,213	4.3%	5,000	5,162	3.2%	500	508	1.6%
60%	6,000	6,230	3.8%	6,000	6,172	2.9%	600	608	1.3%
70%	7,000	7,260	3.7%	7,000	7,182	2.6%	700	709	1.3%
80%	8,000	8,225	2.8%	8,000	8,190	2.4%	800	812	1.5%
90%	9,000	9,215	2.4%	9,000	9,192	2.1%	900	915	1.7%
100%	10,000	10,202	2.0%	10,000	10,199	2.0%	1,000	1,020	2.0%

Note: The mass flow controller's calibration values are used by the dilution system's operating software to improve accuracy. These calibrations are not necessarily indicative of the systems overall performance. Performance is verified by conducting a Method 205 prior to each field use.

Calibration Performed By: Bryan Allen

Date: 02/15/2024



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12023

EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0089925	Certification Date:	11/29/2023
Product ID Number:	125371	Expiration Date:	11/27/2031
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0089925.20231121-0	Lot Number:	EB0089925.20231121
Customer PO. NO.:		Tracking Number:	095289409
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G1.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	10.96 %	±0.08 %	NDIR	11/29/2023
Oxygen	10.97 %	±0.02 %	MPA	11/28/2023
Nitrogen	Balance			

Analytical Measurement Data Available Online.

Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC716408	CC716408.20230109	07/09/2031	GMIS	N2	O2	12.003 %	0.122	SRM 2659a
CC749243	CC749243.20230228	07/09/2031	GMIS	N2	O2	20.01 %	0.112	SRM 2659a
EB0004315	EB0004315.20201022	04/05/2030	GMIS	N2	CO2	24.75 %	0.237	C2190301.03
EB0014830	EB0014830.20150605	10/03/2030	GMIS	N2	CO2	9.53 %	0.191	C2190301.03

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
O2	MPA	Thermo	410i	1162980025	11/24/2023
CO2	NDIR	Thermo	410i	1162980025	11/13/2023

SMART-CERT



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Hayden Hartley

Hayden Hartley
Analyst

Assay Laboratory, Red Ball TGS
BASFWC-MemoSh-007828
Version 02-J, Revised on 2018-09-17



Location BASF Corporation - McIntosh, AL
Source No. 7 Boiler
Project No. AST-2024-2594
Dates 6/10/24-6/14/24
Ethylene Cylinder ID EB0099721
Concentration (ppmv) 102
Instrument Outlet MKS 5 (Serial #014995408)

CTS 1	99.16	CTS 7	99.13	AVERAGE	99.23	Greatest Deviation from average
CTS 2	99.07	CTS 8	99.44	MAX	99.44	0.21%
CTS 3	99.27	CTS 9	99.39	deviation	0.21	
CTS 4	99.21	CTS 10	99.06	MIN	99.06	Agreement with Assumed Pathlength
CTS 5	99.21	CTS 11	99.25	deviation	0.17	97.28%
CTS 6	99.34	CTS 12	--			within 5% no correction required

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/10/24	18:05:18	CPCB H-109 0000	191.4	0.985	99.18
6/10/24	18:06:21	CPCB H-109 0000	191.4	0.985	99.24
6/10/24	18:07:24	CPCB H-109 0000	191.4	0.985	99.07

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/11/24	8:31:40	CPCB H-109 0001	191.6	1.029	98.94
6/11/24	8:32:42	CPCB H-109 0001	191.5	1.029	99.14
6/11/24	8:33:46	CPCB H-109 0001	191.5	1.029	99.13

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/11/24	13:49:31	CPCB H-109 0004	191.7	1.019	99.19
6/11/24	13:50:34	CPCB H-109 0004	191.6	1.019	99.31
6/11/24	13:51:36	CPCB H-109 0004	191.6	1.019	99.30

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/11/24	18:45:14	CPCB H-109 0007	191.6	1.012	99.14
6/11/24	18:46:17	CPCB H-109 0007	191.5	1.012	99.20
6/11/24	18:47:20	CPCB H-109 0007	191.6	1.012	99.29

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/12/24	7:35:51	CPCB H-109 0007	191.5	1.025	99.15
6/12/24	7:36:54	CPCB H-109 0007	191.5	1.025	99.35
6/12/24	7:37:57	CPCB H-109 0007	191.5	1.025	99.12

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/12/24	13:14:40	CPCB H-109 0010	191.6	1.010	99.39
6/12/24	13:15:42	CPCB H-109 0010	191.6	1.010	99.40
6/12/24	13:16:46	CPCB H-109 0010	191.5	1.010	99.23

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/13/24	7:26:41	CPCB H-109 0014	191.5	1.030	99.16
6/13/24	7:27:43	CPCB H-109 0014	191.5	1.030	99.02
6/13/24	7:28:46	CPCB H-109 0014	191.5	1.030	99.22

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/13/24	12:38:22	CPCB H-109 0017	191.6	1.026	99.46
6/13/24	12:39:25	CPCB H-109 0017	191.6	1.026	99.43
6/13/24	12:40:28	CPCB H-109 0017	191.6	1.026	99.42

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/13/24	18:00:01	CPCB H-109 0020	191.6	1.023	99.32
6/13/24	18:01:04	CPCB H-109 0020	191.6	1.023	99.45
6/13/24	18:02:07	CPCB H-109 0020	191.7	1.023	99.40

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/14/24	7:43:19	CPCB H-109 0020	191.5	1.025	99.10
6/14/24	7:44:21	CPCB H-109 0020	191.5	1.025	99.06
6/14/24	7:45:24	CPCB H-109 0020	191.5	1.025	99.04

Date	Time	File	Temperature (°C)	Pressure	Ethylene
6/14/24	12:53:55	CPCB H-109 0023	191.7	1.024	99.27
6/14/24	12:54:58	CPCB H-109 0023	191.6	1.024	99.36
6/14/24	12:56:01	CPCB H-109 0023	191.6	1.024	99.14

Date	Time	File	Temperature (°C)	Pressure	Ethylene

Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Date	6/11/2024

Spike Cylinder ID	CC749177	Component
Spike Gas concentration	104	Hydrogen Cyanide
Tracer Cylinder ID	CC749177	Component
Tracer Gas concentration	10.1	SF6
Instrument ID Outlet	MKS 5 (Serial #014995408)	

Direct Spike Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
06/11/24	7:21:10	CPCB H-109 _000	191.6	1.037	85.41	9.642
06/11/24	7:22:13	CPCB H-109 _000	191.5	1.037	85.65	9.648
06/11/24	7:23:16	CPCB H-109 _000	191.5	1.037	85.89	9.633
06/11/24	7:24:19	CPCB H-109 _000	191.5	1.037	85.75	9.632
06/11/24	7:25:21	CPCB H-109 _000	191.5	1.037	85.73	9.631
06/11/24	7:26:24	CPCB H-109 _000	191.5	1.037	85.94	9.625
06/11/24	7:27:27	CPCB H-109 _000	191.5	1.037	86.00	9.626
Average					85.77	9.634

Native Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
06/11/24	7:49:27	CPCB H-109 _000	191.7	1.062	2.02	0.010
06/11/24	7:50:30	CPCB H-109 _000	191.6	1.063	2.35	0.010
06/11/24	7:51:33	CPCB H-109 _000	191.7	1.075	1.71	0.010
06/11/24	7:52:35	CPCB H-109 _000	191.7	1.063	2.35	0.010
06/11/24	7:53:39	CPCB H-109 _000	191.7	1.063	2.34	0.010
06/11/24	7:54:41	CPCB H-109 _000	191.7	1.070	1.55	0.010
06/11/24	7:55:44	CPCB H-109 _000	191.7	1.066	2.03	0.010
Average					2.05	0.010

Spiked values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
06/11/24	8:02:01	CPCB H-109 _000	191.7	1.068	5.96	0.434
06/11/24	8:03:04	CPCB H-109 _000	191.7	1.064	5.94	0.453
06/11/24	8:04:07	CPCB H-109 _000	191.7	1.066	5.57	0.438
06/11/24	8:05:09	CPCB H-109 _000	191.7	1.066	6.09	0.459
06/11/24	8:06:12	CPCB H-109 _000	191.7	1.066	6.18	0.457
06/11/24	8:07:15	CPCB H-109 _000	191.7	1.069	6.05	0.462
06/11/24	8:08:18	CPCB H-109 _000	191.7	1.069	5.80	0.437
Average					5.94	0.449

Dilution Factor
4.6%

Calculated Spike
5.86

Spike Recovery
101.37%



Red Ball Technical Gas Service
555 Craig Kennedy Way
Shreveport, LA 71107
800-551-8150
PGVP Vendor ID # G12023

CERTIFIED GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0099721	Certification Date:	11/13/2023
Product ID Number:	124838	Expiration Date:	11/12/2025
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0099721.20231102-0	Lot Number:	EB0099721.20231102
Customer PO. NO.:		Tracking Number:	095703006
Customer:		Previous Certification Dates:	

This mixture is for laboratory use only, not for drug, household or other use.
This mixture is certified in Mole % to be within $\pm 2\%$ of the actual number reported with a confidence of 95%.
This mixture was manufactured by scale; weights traceable to N.I.S.T. Certificate #822/266926-02.
Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle
Ethylene	102 PPM	$\pm 2\%$ NIST	FTIR
Nitrogen	Balance		

Analytical Measurement Data Available Online.

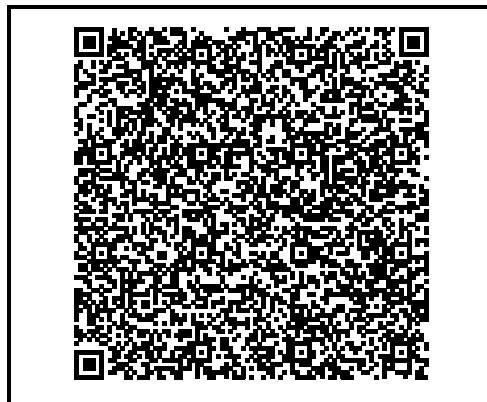
Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC734580	CC734580	07/26/2024	PS	N2	C2H4	1005 PPM	2	4034426

Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C2H4	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	

SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of $k=2$ to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Aaron Varelas

Aaron Varelas
Analytical Chemist

Assay Laboratory: Red Ball TGS
BASF-HWC-McIntosh-007831
Version 02-0, Revised on 2017-07-02

SPECGAS, INC.

SPECGAS, Inc.
86 Vincent Circle
Warminster, PA. 18974
Tel. 215 443 2600
Fax. 215 443 2665
WWW.SPECGASINC.COM

CERTIFICATE



ANALYTICAL REPORT-PRODUCT CERTIFICATION

SOLD TO: Red Ball Oxygen
PO Box 7316
Shreveport, LA. 71137-7316

SHIP TO: Houston Store
6200 South Loop East
Houston, TX 77087

DATE: 4/16/24
PO#: 4051003

CERTIFIED STANDARD MIXTURE

CYLINDER #
CC749177

Component		Nominal	Actual
SULFUR HEXAFLUORIDE	SF6	10.0 ppm	10.1 ppm
HYDROGEN CYANIDE	HCN	100 ppm	104 ppm
NITROGEN	N2	Balance	Balance

PRESSURE: 2000 psia
VALVE: CGA 350 s/s
CYL. SIZE: 150A COC
ANALYSIS DATE: 4/16/24
EXPIRATION DATE: 4/16/25
UN 1956, Compressed Gas, N.O.S.
(Hydrogen Cyanide, Nitrogen) 2.2
Emergency Phone #: 1 800 535 5053

SF6:

Blend Tolerance: +/- 10 %
Analytical Tolerance: +/- 5 %

HCN:

Blend Tolerance: +/- 5 %
Analytical Tolerance: +/- 2 %

N.I.S.T.: Mixture was blended on a high resolution Scale (Sartorius Combics 1, Serial # 29503041) Traceable to N.I.S.T. through test # 221140

4kg wt. (Serial #85424) Standards traceable to N.I.S.T. through weight & measures test # 2267372



Warning

Contains gas under pressure
May explode if heated
May displace oxygen and cause rapid suffocation

ANALYST

DATE

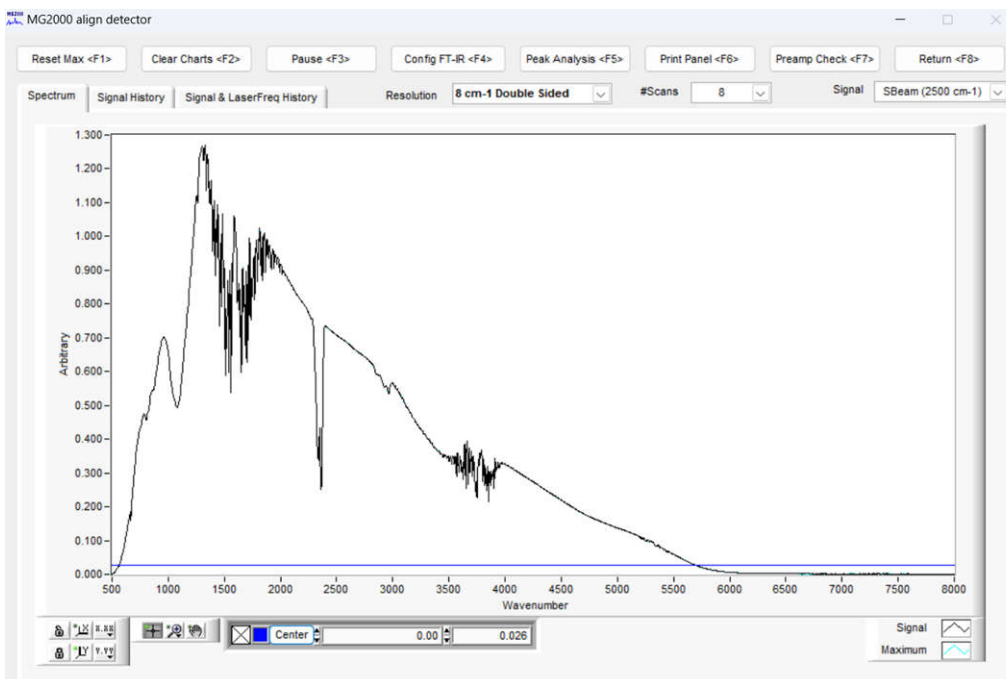
4/16/24

Location	BASF Corporation - McIntosh, AL
Project No.	AST-2024-2594
Instrument	MKS 5 (Serial #014995408)

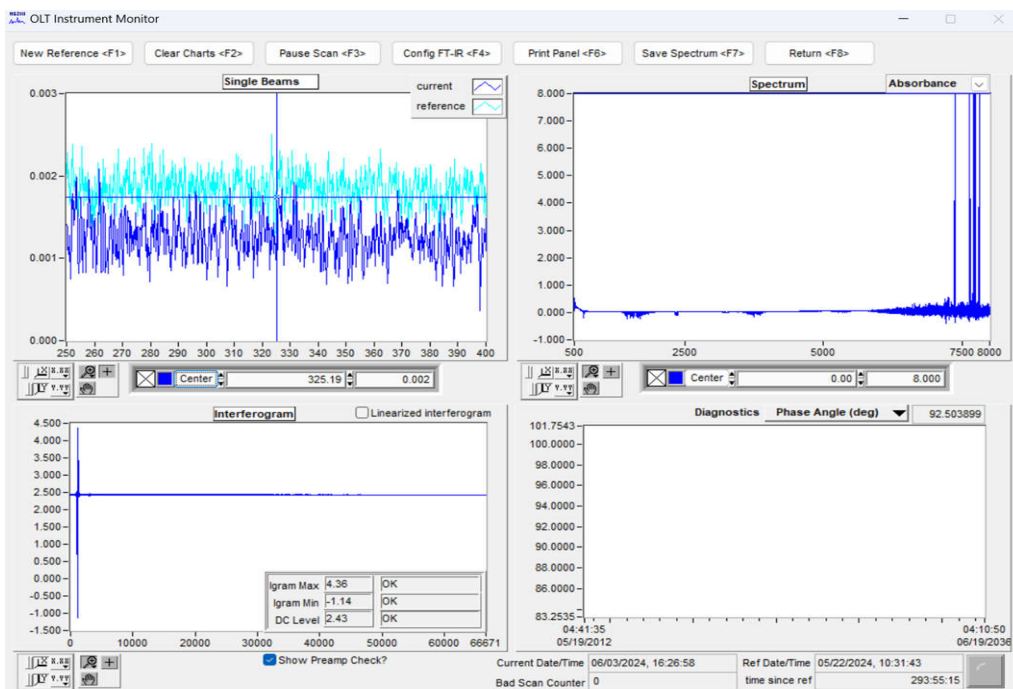
Summary of Spikes

Source	Boiler No. 7
Date	6/11/24
Time	8:02
Analyte	Hydrogen Cyanide
Direct	85.77
Native	2.05
Spiked	5.94
Dilution	4.6%
Recovery	101%
Result	PASS

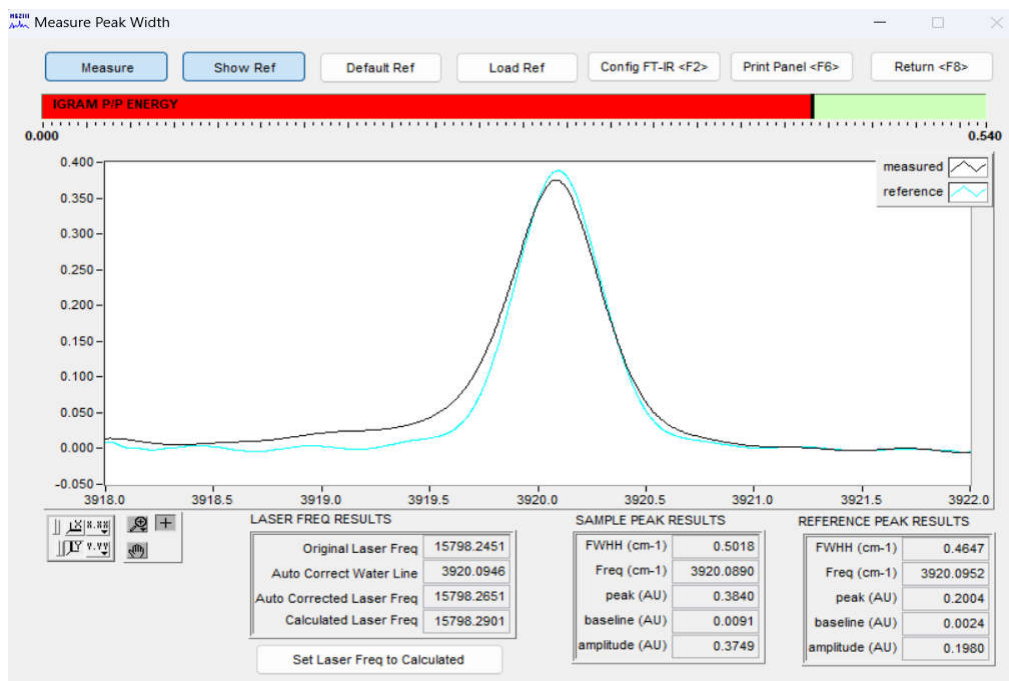
Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Health Check Parameter	Single Beam (Pre-Test)
Instrument ID	MKS 5 (Serial #014995408)
Date	6/3/2024



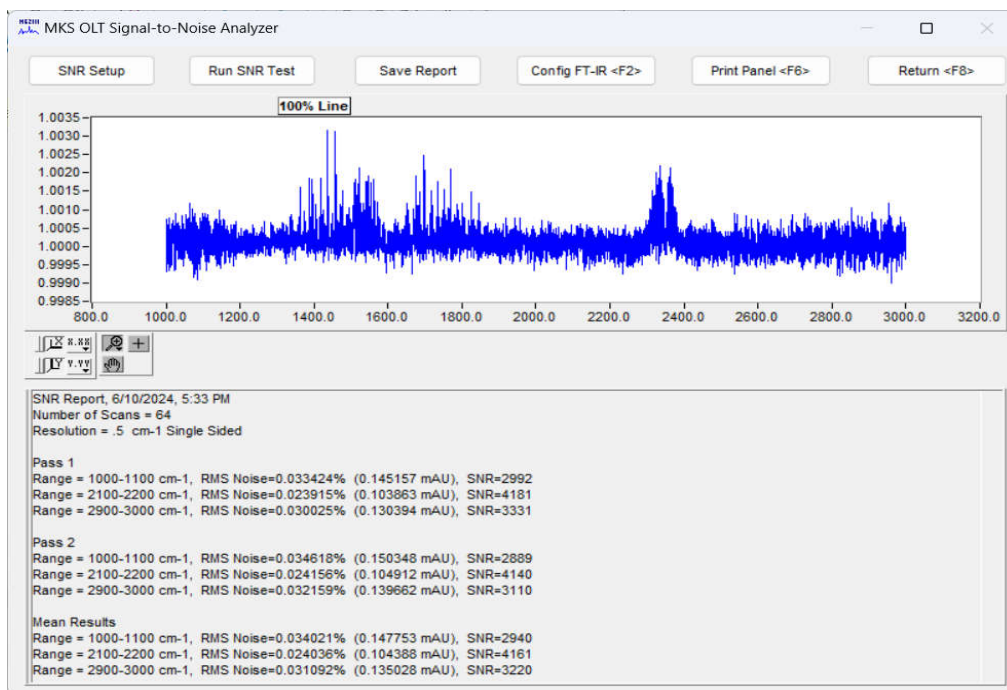
Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Health Check Parameter	Detector Linearity
Instrument ID	MKS 5 (Serial #014995408)
Date	6/3/2024



Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Health Check Parameter	Peak Analysis
Instrument ID	MKS 5 (Serial #014995408)
Date	6/3/2024



Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Health Check Parameter	Signal to Noise Ratio
Instrument ID	MKS 5 (Serial #014995408)
Date	6/3/2024





Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Health Check Parameter	Analysis Validation Utility
Instrument ID	MKS 5 (Serial #014995408)
Date	6/3/2024

Analysis Validation Report

Sample Filename: D:\Documents\2024\24-2594 BASF McIntosh\CPCB H-109 _000550.LAB

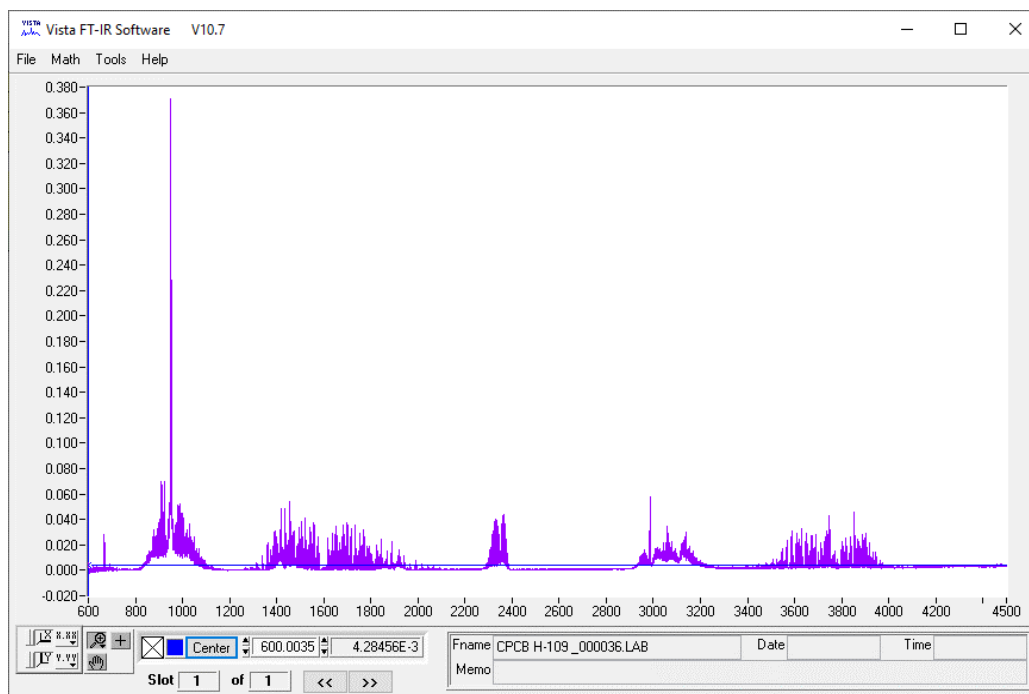
Filename for noise: D:\Documents\2024\24-2594 BASF McIntosh\CPCB H-109 _000469.LAB

Interferences Filenames: C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #2.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #3.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #4.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #5.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #6.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #7.LA
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #8.LA

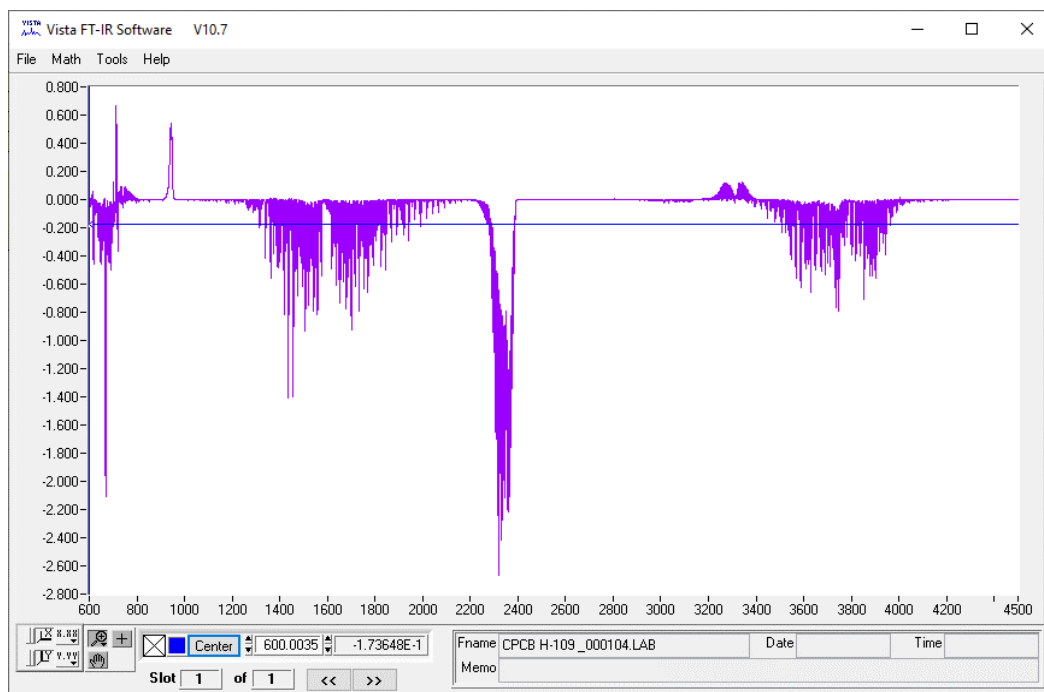
Recipe path: C:\OLT\RECIPES\Coal EGU Testing R3 - Copy DO NOT USE.MGRCP

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU
NO (350,3000) 191C	26.19	13.32	0.17	0.62	0.84	18.18	18.18
NO2 (150) 191C (1OF2)	-0.42	1.12	0.16	0.1	0.11	1.18	1.18
NO2 (2000) 191C (2OF2)	-6.74	11.96	0.5	1.02	1.29	15.24	15.24
N2O (100,200,300) 191C	-0.04	0.69	0.05	0.04	0.05	0.79	0.79
NH3 (300) 191C (1OF2)	1.13	1.7	0.04	0.13	0.21	2.89	2.89
NH3 (3000) 191C (2OF2)	2.24	20.19	0.58	1.47	2.77	38.08	38.08
CO (500) 191C (1OF2)	1.54	3.56	0.1	0.2	0.44	7.67	7.67
CO% (1) 191C (2OF2)	0	0.01	0	0	0	0.01	0.01
H2O% (40) 191C	17.69	0.32	-	0.01	0.02	0.61	0.61
CO2% (40) 191C	7.78	0.61	-	0.01	0.02	0.85	0.85
CH4 (250) 191C (1OF2)	-0.39	4.13	0.05	0.3	0.79	10.91	10.91
CH4 (3000) 191C (2OF2)	0.51	21.03	0.6	1.35	2.22	34.63	34.63
FORMALDEHYDE (70) 191C	-0.1	0.64	0.09	0.22	0.27	0.77	0.77
PROPYLENE (200,1000) 191C	-0.94	5.4	0.25	0.44	0.52	6.33	6.33
ETHYLENE (100,3000) 191C	0.1	2.26	0.11	0.16	0.27	3.94	3.94
ACETYLENE (1000) 191C	0.31	9.6	0.26	0.41	0.49	11.55	11.55
PROPANE (100) 191C	1.63	1.4	0.09	0.14	0.17	1.67	1.67
ETHANE (500) 191C	0.74	3.2	0.16	0.23	0.25	3.58	3.58
ACETALDEHYDE (1000) 191C	0.37	1.59	0.12	0.42	0.46	1.73	1.73
HCL PPM (100) 191C	0	0.57	0.08	0.16	0.29	1.05	1.05
HF PPM (10) 191C	0.02	0.79	0.04	0.07	0.12	1.41	1.41
HCN (100) 191C	1.91	9.78	0.13	0.44	0.75	16.72	16.72
HBR (100) 180C	0.14	3.72	0.27	0.73	1.49	7.55	7.55
SO2 (1000) 191C	0.4	1.79	0.24	0.31	0.6	3.44	3.44
SO3 (150) 191C	2.81	0.57	-	0.24	0.26	0.62	0.62
COS (100) 150C	0.25	0.45	0.01	0.02	0.03	0.61	0.61
H2SO4 (50) 150C	-0.1	0.16	0.05	0.05	0.06	0.17	0.17
SF6 (10) 191C	-0.01	0.03	0.01	0.01	0.02	0.03	0.03
MEOH (10) 191C	0.92	0.66	0.24	0.15	0.17	0.76	0.76

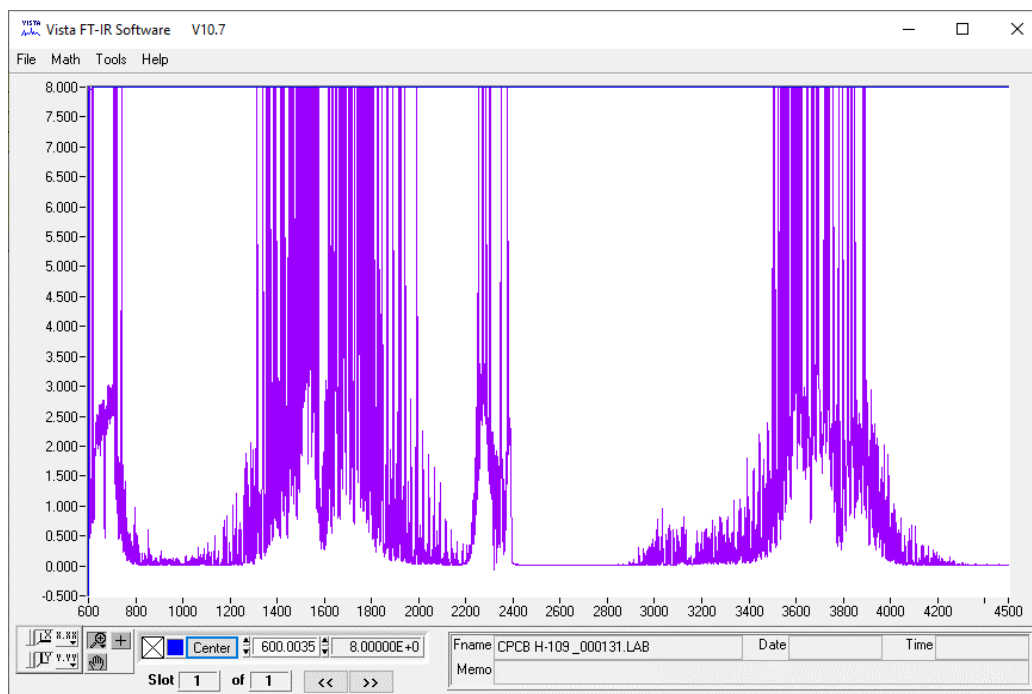
Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Spectra (CTS)	CPCB H-109_000036.LAB
Date	6/10/2024
Time	6:05:18 PM



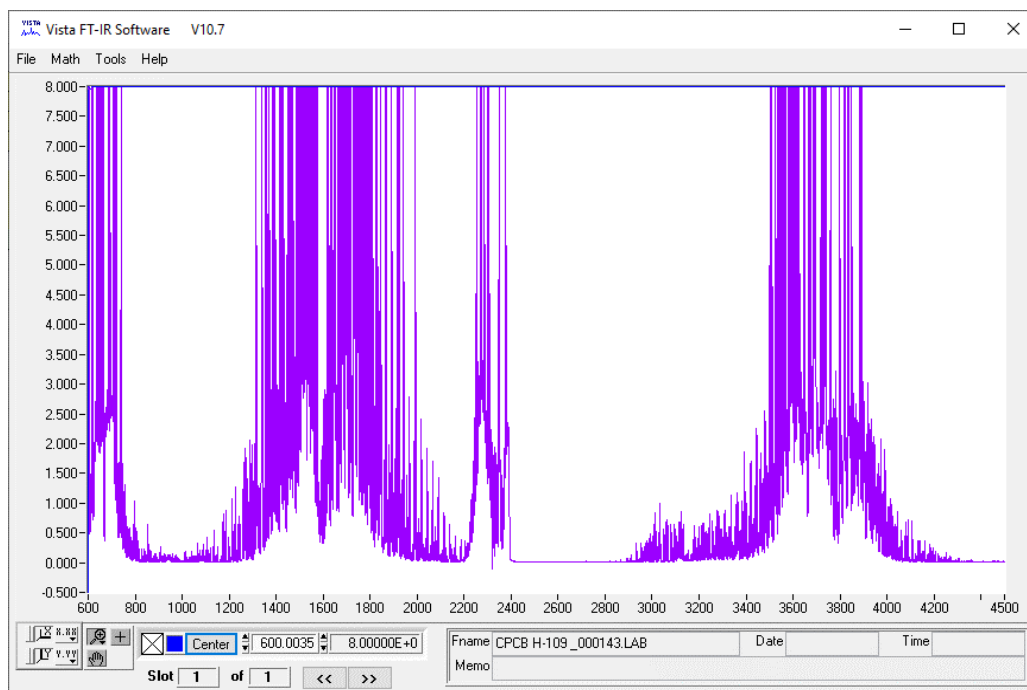
Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Spectra (Analyte Direct)	CPCB H-109 _000104.LAB
Date	6/11/2024
Time	7:21:10 AM



Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Spectra (Native)	CPCB H-109_000131.LAB
Date	6/11/2024
Time	7:49:27 AM



Location	BASF Corporation - McIntosh, AL
Source	Boiler No. 7
Project No.	AST-2024-2594
Spectra (Spike)	CPCB H-109 _000143.LAB
Date	6/11/2024
Time	8:02:01 AM



Appendix E

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 19:28	15.15	3.48	0.00	
6/10/24 19:28	15.17	3.48	0.00	
6/10/24 19:28	15.14	3.50	0.00	
6/10/24 19:28	15.15	3.49	0.00	
6/10/24 19:28	15.13	3.50	0.00	
6/10/24 19:28	15.13	3.50	0.00	
6/10/24 19:29	15.12	3.51	0.00	
6/10/24 19:29	15.13	3.55	0.24	
6/10/24 19:29	15.26	3.67	43.31	
6/10/24 19:29	15.22	3.49	84.85	
6/10/24 19:29	15.21	3.47	87.79	
6/10/24 19:29	15.19	3.46	87.66	
6/10/24 19:30	15.17	3.48	87.63	
6/10/24 19:30	15.19	3.45	87.53	
6/10/24 19:30	15.20	3.46	87.54	
6/10/24 19:30	15.11	3.52	87.55	
6/10/24 19:30	15.08	3.53	87.58	
6/10/24 19:30	15.07	3.54	87.71	
6/10/24 19:31	15.11	3.51	87.71	
6/10/24 19:31	15.14	3.49	87.72	
6/10/24 19:31	15.12	3.52	87.72	
6/10/24 19:31	15.13	3.52	87.73	
6/10/24 19:31	15.13	3.51	59.66	
6/10/24 19:31	15.16	3.51	17.55	
6/10/24 19:32	15.18	3.50	17.55	
6/10/24 19:32	15.19	3.48	17.55	
6/10/24 19:32	15.20	3.48	19.94	
6/10/24 19:32	15.21	3.49	21.54	
6/10/24 19:32	15.19	3.48	21.54	
6/10/24 19:32	15.18	3.50	21.55	
6/10/24 19:33	15.16	3.49	21.54	
6/10/24 19:33	15.17	3.50	21.55	
6/10/24 19:33	15.18	3.49	10.53	
6/10/24 19:33	15.19	3.48	7.18	
6/10/24 19:33	15.18	3.47	7.18	
6/10/24 19:33	15.19	3.48	7.21	
6/10/24 19:34	15.20	3.50	5.95	
6/10/24 19:34	15.42	3.83	0.68	
6/10/24 19:34	15.70	4.14	0.14	
6/10/24 19:34	15.73	4.17	0.06	
6/10/24 19:34	15.73	4.18	0.03	
6/10/24 19:34	15.71	4.20	0.03	
6/10/24 19:35	15.71	4.20	0.03	
6/10/24 19:35	15.68	4.21	0.03	
6/10/24 19:35	15.71	4.20	0.03	
6/10/24 19:35	15.74	4.11	0.03	
6/10/24 19:35	21.92	0.41	0.03	
6/10/24 19:35	22.71	0.36	0.02	
6/10/24 19:36	22.72	0.36	0.02	
6/10/24 19:36	22.72	0.36	0.02	
6/10/24 19:36	22.71	0.37	0.02	
6/10/24 19:36	22.70	0.37	0.02	
6/10/24 19:36	22.69	0.37	0.00	
6/10/24 19:36	22.68	0.38	0.00	
6/10/24 19:37	22.68	0.38	0.00	
6/10/24 19:37	22.70	0.36	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 19:37	22.71	0.36	0.00	
6/10/24 19:37	22.71	0.36	0.00	
6/10/24 19:37	22.71	0.36	0.00	
6/10/24 19:37	22.71	0.36	0.00	
6/10/24 19:38	22.71	0.36	0.00	
6/10/24 19:38	22.71	0.36	0.00	
6/10/24 19:38	22.70	0.36	0.00	
6/10/24 19:38	22.70	0.36	0.00	
6/10/24 19:38	22.71	0.36	0.00	
6/10/24 19:38	22.71	0.36	0.00	
6/10/24 19:39	22.70	0.36	0.00	
6/10/24 19:39	22.71	0.36	0.00	
6/10/24 19:39	22.71	0.36	0.00	
6/10/24 19:39	22.70	0.36	0.00	
6/10/24 19:39	22.69	0.37	0.00	
6/10/24 19:39	22.61	0.43	0.00	
6/10/24 19:40	22.63	0.41	0.00	
6/10/24 19:40	22.67	0.38	0.00	
6/10/24 19:40	16.75	4.75	0.00	
6/10/24 19:40	8.33	8.33	0.00	
6/10/24 19:40	8.09	8.38	0.00	
6/10/24 19:40	8.09	8.40	0.00	
6/10/24 19:41	8.12	8.36	0.00	
6/10/24 19:41	8.10	8.37	0.00	
6/10/24 19:41	8.06	8.38	0.00	
6/10/24 19:41	8.07	8.37	0.00	
6/10/24 19:41	8.21	8.29	0.00	
6/10/24 19:41	8.32	8.22	0.00	
6/10/24 19:42	8.33	8.22	0.00	
6/10/24 19:42	8.30	8.23	0.00	
6/10/24 19:42	8.35	8.20	0.00	
6/10/24 19:42	8.35	8.19	0.00	
6/10/24 19:42	8.33	8.21	0.00	
6/10/24 19:42	8.34	8.21	0.00	
6/10/24 19:43	8.29	8.23	0.00	
6/10/24 19:43	8.79	7.11	0.00	
6/10/24 19:43	4.31	0.53	0.00	
6/10/24 19:43	2.33	0.28	0.00	
6/10/24 19:43	2.30	0.25	0.00	
6/10/24 19:43	2.29	0.24	0.00	
6/10/24 19:44	2.28	0.23	0.00	
6/10/24 19:44	2.28	0.25	0.00	
6/10/24 19:44	2.27	0.17	0.00	
6/10/24 19:44	2.21	0.15	0.00	
6/10/24 19:44	2.18	0.14	0.00	
6/10/24 19:44	2.16	0.27	0.00	
6/10/24 19:45	1.50	0.54	0.00	
6/10/24 19:45	0.00	0.54	0.00	
6/10/24 19:45	0.00	0.01	0.00	
6/10/24 19:45	0.00	0.01	0.00	
6/10/24 19:45	0.00	0.01	0.00	
6/10/24 19:45	7.39	8.57	0.00	
6/10/24 19:46	22.23	22.02	0.00	
6/10/24 19:46	22.70	22.27	0.00	
6/10/24 19:46	22.72	22.31	0.00	
6/10/24 19:46	22.73	22.33	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 19:46	22.73	22.34	0.00	
6/10/24 19:46	22.72	22.35	0.00	
6/10/24 19:47	22.70	22.69	0.00	
6/10/24 19:47	22.89	22.81	0.00	
6/10/24 19:47	22.91	22.81	0.00	
6/10/24 19:47	15.62	15.05	0.00	
6/10/24 19:47	11.25	11.02	0.00	
6/10/24 19:47	11.01	11.09	0.00	
6/10/24 19:48	11.01	11.09	0.00	
6/10/24 19:48	11.00	11.09	0.00	
6/10/24 19:48	11.00	11.09	0.00	
6/10/24 19:48	10.99	11.09	0.00	
6/10/24 19:48	10.99	11.09	0.00	
6/10/24 19:48	10.99	11.09	0.00	
6/10/24 19:49	10.98	11.08	0.00	
6/10/24 19:49	7.80	9.22	0.00	
6/10/24 19:49	5.85	8.53	0.00	
6/10/24 19:49	5.73	8.55	0.00	
6/10/24 19:49	4.93	6.62	0.00	
6/10/24 19:49	7.56	8.50	0.00	
6/10/24 19:50	10.96	11.03	0.00	
6/10/24 19:50	11.02	11.08	0.00	
6/10/24 19:50	11.03	11.10	0.00	
6/10/24 19:50	11.04	11.11	0.00	
6/10/24 19:50	11.05	11.11	0.00	
6/10/24 19:50	9.10	9.78	0.00	
6/10/24 19:51	6.02	8.54	0.00	
6/10/24 19:51	5.95	8.49	0.00	
6/10/24 19:51	5.98	8.46	0.00	
6/10/24 19:51	5.91	8.51	0.00	
6/10/24 19:51	5.84	8.54	0.00	
6/10/24 19:51	5.80	8.55	0.00	
6/10/24 19:52	5.75	8.59	0.00	
6/10/24 19:52	5.90	8.49	0.00	
6/10/24 19:52	6.03	8.43	0.00	
6/10/24 19:52	5.99	8.45	0.00	
6/10/24 19:52	5.98	8.47	0.00	
6/10/24 19:52	5.92	8.48	0.00	
6/10/24 19:53	5.96	8.46	0.00	
6/10/24 19:53	6.03	8.42	0.00	
6/10/24 19:53	6.05	8.42	0.00	
6/10/24 19:53	6.08	8.40	0.00	
6/10/24 19:53	6.06	8.41	0.00	
6/10/24 19:53	6.10	8.39	0.00	
6/10/24 19:54	6.08	8.40	0.00	
6/10/24 19:54	6.08	8.40	0.00	
6/10/24 19:54	6.04	8.42	0.00	
6/10/24 19:54	5.72	7.19	0.00	
6/10/24 19:54	0.33	0.08	0.00	
6/10/24 19:54	0.00	0.03	0.00	
6/10/24 19:55	0.00	0.02	0.00	
6/10/24 19:55	0.00	0.02	0.00	
6/10/24 19:55	0.00	0.01	0.00	
6/10/24 19:55	0.00	0.01	0.00	
6/10/24 19:55	0.00	0.01	0.00	
6/10/24 19:55	0.00	0.00	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 19:56	0.00	0.00	0.00	
6/10/24 19:56	0.00	0.00	0.00	
6/10/24 19:56	0.00	0.00	0.00	
6/10/24 19:56	0.00	0.00	0.00	
6/10/24 19:56	0.00	0.00	0.00	
6/10/24 19:56	0.88	1.96	0.00	
6/10/24 19:57	18.09	19.95	0.00	
6/10/24 19:57	22.83	22.79	0.00	
6/10/24 19:57	22.86	22.81	0.00	
6/10/24 19:57	22.86	22.82	0.00	
6/10/24 19:57	22.86	22.82	0.00	
6/10/24 19:57	22.86	22.82	0.00	
6/10/24 19:57	22.86	22.82	0.00	
6/10/24 19:58	22.86	22.83	0.00	
6/10/24 19:58	22.85	22.83	0.00	
6/10/24 19:58	22.85	22.83	0.00	
6/10/24 19:58	22.85	22.83	0.00	
6/10/24 19:58	14.80	13.84	0.00	
6/10/24 19:58	10.94	11.06	0.00	
6/10/24 19:59	10.95	11.09	0.00	
6/10/24 19:59	10.95	11.10	0.00	
6/10/24 19:59	10.95	11.10	0.00	
6/10/24 19:59	10.95	11.09	0.00	
6/10/24 19:59	10.95	11.09	0.00	
6/10/24 19:59	13.43	14.40	0.00	
6/10/24 20:00	18.55	18.47	0.00	
6/10/24 20:00	18.44	18.51	0.00	
6/10/24 20:00	18.42	18.51	0.00	
6/10/24 20:00	18.41	18.50	0.00	
6/10/24 20:00	18.41	18.50	0.00	
6/10/24 20:00	18.40	18.49	0.00	
6/10/24 20:01	17.15	15.95	0.00	
6/10/24 20:01	11.36	11.64	0.00	
6/10/24 20:01	11.46	11.62	0.00	
6/10/24 20:01	11.47	11.63	0.00	
6/10/24 20:01	11.47	11.63	0.00	
6/10/24 20:01	11.47	11.63	0.00	
6/10/24 20:02	11.47	11.62	0.00	
6/10/24 20:02	6.68	5.73	0.00	
6/10/24 20:02	4.25	4.49	0.00	
6/10/24 20:02	4.30	4.52	0.00	
6/10/24 20:02	4.46	4.71	0.00	
6/10/24 20:02	4.51	4.72	0.00	
6/10/24 20:03	4.50	4.72	0.00	
6/10/24 20:03	4.50	4.72	0.00	
6/10/24 20:03	4.51	4.73	0.00	
6/10/24 20:03	4.52	4.73	0.00	
6/10/24 20:03	4.54	4.76	0.00	
6/10/24 20:03	4.55	4.76	0.00	
6/10/24 20:04	4.55	4.77	0.00	
6/10/24 20:04	4.55	4.77	0.00	
6/10/24 20:04	4.01	3.83	0.00	
6/10/24 20:04	2.04	2.26	0.00	
6/10/24 20:04	2.06	2.30	0.00	
6/10/24 20:04	2.08	2.31	0.00	
6/10/24 20:05	2.21	2.47	0.00	
6/10/24 20:05	2.29	2.52	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 20:05	2.30	2.53	0.00	
6/10/24 20:05	2.31	2.53	0.00	
6/10/24 20:05	2.31	2.54	0.00	
6/10/24 20:05	3.22	4.12	0.00	
6/10/24 20:06	10.66	11.07	0.00	
6/10/24 20:06	10.89	11.05	0.00	
6/10/24 20:06	10.88	11.03	0.00	
6/10/24 20:06	10.87	11.03	0.00	
6/10/24 20:06	10.87	11.03	0.00	
6/10/24 20:06	10.87	11.03	0.00	
6/10/24 20:07	14.68	15.49	0.00	
6/10/24 20:07	18.47	18.57	0.00	
6/10/24 20:07	18.48	18.56	0.00	
6/10/24 20:07	18.48	18.57	0.00	
6/10/24 20:07	18.48	18.57	0.00	
6/10/24 20:07	14.49	13.49	0.00	
6/10/24 20:08	11.42	11.59	0.00	
6/10/24 20:08	11.45	11.61	0.00	
6/10/24 20:08	11.45	11.61	0.00	
6/10/24 20:08	11.45	11.61	0.00	
6/10/24 20:08	9.57	8.52	0.00	
6/10/24 20:08	4.44	4.80	0.00	
6/10/24 20:09	4.55	4.77	0.00	
6/10/24 20:09	4.56	4.78	0.00	
6/10/24 20:09	4.56	4.78	0.00	
6/10/24 20:09	4.56	4.78	0.00	
6/10/24 20:09	4.58	4.62	0.00	
6/10/24 20:09	2.43	2.45	0.00	
6/10/24 20:10	2.10	2.33	0.00	
6/10/24 20:10	2.24	2.50	0.00	
6/10/24 20:10	2.30	2.53	0.00	
6/10/24 20:10	2.30	2.53	0.00	
6/10/24 20:10	2.30	2.53	0.00	
6/10/24 20:10	2.30	2.54	0.00	
6/10/24 20:11	2.99	3.87	0.00	
6/10/24 20:11	10.68	11.14	0.00	
6/10/24 20:11	10.91	11.07	0.00	
6/10/24 20:11	10.91	11.07	0.00	
6/10/24 20:11	10.91	11.07	0.00	
6/10/24 20:11	10.91	11.07	0.00	
6/10/24 20:12	10.91	11.07	0.00	
6/10/24 20:12	10.91	11.07	0.00	
6/10/24 20:12	10.92	11.08	0.00	
6/10/24 20:12	12.05	12.98	0.00	
6/10/24 20:12	18.76	18.74	0.00	
6/10/24 20:12	18.39	18.47	0.00	
6/10/24 20:13	18.37	18.47	0.00	
6/10/24 20:13	18.36	18.46	0.00	
6/10/24 20:13	18.36	18.46	0.00	
6/10/24 20:13	18.37	18.46	0.00	
6/10/24 20:13	18.37	18.46	0.00	
6/10/24 20:13	18.37	18.46	0.00	
6/10/24 20:14	15.08	14.10	0.00	
6/10/24 20:14	11.41	11.59	0.00	
6/10/24 20:14	11.44	11.61	0.00	
6/10/24 20:14	11.44	11.61	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/10/24 20:14	11.45	11.61	0.00	
6/10/24 20:14	11.45	11.61	0.00	
6/10/24 20:15	11.45	11.61	0.00	
6/10/24 20:15	11.45	11.61	0.00	
6/10/24 20:15	7.16	6.25	0.00	
6/10/24 20:15	4.42	4.64	0.00	
6/10/24 20:15	4.46	4.68	0.00	
6/10/24 20:15	4.51	4.74	0.00	
6/10/24 20:16	4.54	4.76	0.00	
6/10/24 20:16	4.54	4.76	0.00	
6/10/24 20:16	4.54	4.75	0.00	
6/10/24 20:16	4.20	4.15	0.00	
6/10/24 20:16	2.37	2.52	0.00	
6/10/24 20:16	2.29	2.52	0.00	
6/10/24 20:17	2.29	2.53	0.00	
6/10/24 20:17	2.29	2.53	0.00	
6/10/24 20:17	2.74	3.50	0.00	
6/10/24 20:17	10.59	11.15	0.00	
6/10/24 20:17	10.92	11.08	0.00	
6/10/24 20:17	10.91	11.07	0.00	
6/10/24 20:18	10.91	11.07	0.00	
6/10/24 20:18	10.91	11.06	0.00	
6/10/24 20:18	10.89	11.03	0.00	
6/10/24 20:18	7.01	8.78	0.00	
6/10/24 20:18	6.42	8.76	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 7:36	20.76	0.05	0.00	
6/11/24 7:37	20.75	0.06	0.00	
6/11/24 7:38	20.75	0.06	0.00	
6/11/24 7:39	20.75	0.06	0.00	
6/11/24 7:40	20.75	0.06	0.00	
6/11/24 7:41	20.75	0.06	0.00	
6/11/24 7:42	20.75	0.06	0.00	
6/11/24 7:43	20.75	0.06	0.00	
6/11/24 7:44	20.75	0.07	0.00	
6/11/24 7:45	5.31	9.14	0.00	
6/11/24 7:46	3.73	10.23	0.04	
6/11/24 7:47	3.74	10.22	0.00	
6/11/24 7:48	3.74	10.23	0.00	
6/11/24 7:49	3.71	10.25	0.00	
6/11/24 7:50	3.74	10.23	0.00	
6/11/24 7:51	3.76	10.21	0.00	
6/11/24 7:52	3.74	10.22	0.00	
6/11/24 7:53	3.72	10.23	0.00	
6/11/24 7:54	3.73	10.22	0.00	
6/11/24 7:55	3.77	10.20	0.00	
6/11/24 7:56	3.77	10.20	0.00	
6/11/24 7:57	3.75	10.21	0.00	
6/11/24 7:58	3.76	10.20	0.00	
6/11/24 7:59	3.72	10.23	0.00	
6/11/24 8:00	3.76	10.20	1.15	
6/11/24 8:01	3.75	10.21	0.00	
6/11/24 8:02	3.71	10.23	0.00	
6/11/24 8:03	3.74	10.21	0.00	
6/11/24 8:04	3.72	10.23	0.00	
6/11/24 8:05	3.71	10.23	0.00	
6/11/24 8:06	3.71	10.23	0.00	
6/11/24 8:07	3.71	10.23	0.00	
6/11/24 8:08	3.71	10.23	0.01	
6/11/24 8:09	3.73	10.21	0.00	
6/11/24 8:10	3.73	10.21	0.00	
6/11/24 8:11	3.71	10.23	0.00	
6/11/24 8:12	3.70	10.22	0.00	
6/11/24 8:13	3.68	10.23	0.00	
6/11/24 8:14	3.70	10.22	0.00	
6/11/24 8:15	3.70	10.22	0.00	
6/11/24 8:16	3.69	10.23	0.00	
6/11/24 8:17	3.75	10.19	0.00	
6/11/24 8:18	3.69	10.23	0.00	
6/11/24 8:19	3.69	10.22	0.00	
6/11/24 8:20	3.70	10.21	0.00	
6/11/24 8:21	3.74	10.19	0.00	
6/11/24 8:22	3.70	10.21	0.00	
6/11/24 8:23	3.70	10.21	0.00	
6/11/24 8:24	3.72	10.19	0.00	
6/11/24 8:25	3.74	10.18	0.00	
6/11/24 8:26	1.55	3.78	6.52	
6/11/24 8:27	1.09	3.34	9.06	
6/11/24 8:28	1.10	3.36	9.05	
6/11/24 8:29	1.10	3.38	18.12	
6/11/24 8:30	2.90	8.11	48.08	
6/11/24 8:31	3.74	10.15	37.47	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 8:32	3.77	10.15	37.38	
6/11/24 8:33	3.74	10.16	28.45	
6/11/24 8:34	3.76	10.15	0.11	
6/11/24 8:35	3.75	10.16	0.01	
6/11/24 8:36	1.60	4.34	0.36	
6/11/24 8:37	0.97	1.05	0.23	
6/11/24 8:38	22.86	22.74	0.03	
6/11/24 8:39	21.34	21.49	0.01	
6/11/24 8:40	11.14	11.24	0.00	
6/11/24 8:41	10.78	11.04	0.00	
6/11/24 8:42	5.76	9.72	0.00	
6/11/24 8:43	11.06	11.10	0.00	
6/11/24 8:44	11.08	11.12	0.00	
6/11/24 8:45	7.14	7.79	0.00	
6/11/24 8:46	0.10	0.17	0.00	
6/11/24 8:47	0.09	0.16	0.00	
6/11/24 8:48	0.40	1.16	0.00	
6/11/24 8:49	3.91	10.02	0.08	
6/11/24 8:50	3.93	10.07	0.03	
6/11/24 8:51	3.93	10.08	8.59	
6/11/24 8:52	3.94	10.08	14.16	
6/11/24 8:53	3.93	10.10	18.90	
6/11/24 8:54	3.92	10.12	21.58	
6/11/24 8:55	3.95	10.11	21.50	
6/11/24 8:56	3.94	10.12	12.99	
6/11/24 8:57	3.92	10.13	7.21	
6/11/24 8:58	3.99	10.09	7.32	
6/11/24 8:59	3.91	10.13	7.45	
6/11/24 9:00	3.98	10.09	7.36	
6/11/24 9:01	3.92	10.13	9.11	
6/11/24 9:02	3.92	10.14	12.45	
6/11/24 9:03	3.95	10.14	12.40	
6/11/24 9:04	3.94	10.15	5.40	
6/11/24 9:05	3.93	10.17	6.09	
6/11/24 9:06	3.92	10.17	2.18	
6/11/24 9:07	3.94	10.16	9.32	
6/11/24 9:08	3.94	10.16	0.02	
6/11/24 9:09	3.93	10.17	0.00	
6/11/24 9:10	3.90	10.19	0.00	
6/11/24 9:11	3.91	10.18	0.00	
6/11/24 9:12	3.93	10.17	0.00	
6/11/24 9:13	3.93	10.17	0.00	
6/11/24 9:14	3.94	10.16	0.00	
6/11/24 9:15	3.93	10.17	0.00	
6/11/24 9:16	3.98	10.15	0.00	
6/11/24 9:17	3.91	10.19	0.00	
6/11/24 9:18	3.91	10.20	0.01	
6/11/24 9:19	3.97	10.17	0.01	
6/11/24 9:20	3.94	10.20	0.01	
6/11/24 9:21	3.94	10.20	0.00	
6/11/24 9:22	3.92	10.21	0.00	
6/11/24 9:23	3.95	10.19	0.00	
6/11/24 9:24	3.98	10.18	0.00	
6/11/24 9:25	3.91	10.24	0.00	
6/11/24 9:26	3.90	10.26	0.00	
6/11/24 9:27	3.93	10.25	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 9:28	3.95	10.23	0.00	
6/11/24 9:29	3.94	10.25	0.00	
6/11/24 9:30	3.95	10.26	0.00	
6/11/24 9:31	3.94	10.28	0.00	
6/11/24 9:32	3.90	10.32	0.00	
6/11/24 9:33	3.92	10.31	0.00	
6/11/24 9:34	3.93	10.32	0.00	
6/11/24 9:35	3.93	10.33	0.00	
6/11/24 9:36	3.90	10.35	0.00	
6/11/24 9:37	3.91	10.35	0.00	
6/11/24 9:38	3.93	10.34	0.00	
6/11/24 9:39	3.95	10.33	0.00	
6/11/24 9:40	3.90	10.37	0.00	
6/11/24 9:41	3.92	10.36	0.00	
6/11/24 9:42	3.93	10.35	0.00	
6/11/24 9:43	3.94	10.37	0.00	
6/11/24 9:44	3.95	10.36	0.00	
6/11/24 9:45	3.95	10.36	0.00	
6/11/24 9:46	3.93	10.38	0.00	
6/11/24 9:47	3.93	10.40	0.01	
6/11/24 9:48	3.92	10.42	0.04	
6/11/24 9:49	3.94	10.42	0.01	
6/11/24 9:50	3.94	10.43	0.01	
6/11/24 9:51	3.94	10.46	0.01	
6/11/24 9:52	3.96	10.52	0.01	
6/11/24 9:53	3.94	10.56	0.01	
6/11/24 9:54	3.95	10.57	0.03	
6/11/24 9:55	3.93	10.63	0.02	
6/11/24 9:56	3.92	10.85	0.03	
6/11/24 9:57	3.95	10.20	0.01	
6/11/24 9:58	3.95	10.03	0.02	
6/11/24 9:59	3.95	10.02	0.01	
6/11/24 10:00	3.93	10.03	0.00	
6/11/24 10:01	3.91	10.04	0.00	
6/11/24 10:02	3.92	10.04	0.01	
6/11/24 10:03	3.88	10.06	0.01	
6/11/24 10:04	3.90	10.05	0.01	
6/11/24 10:05	3.89	10.06	0.01	
6/11/24 10:06	3.92	10.04	0.00	
6/11/24 10:07	3.92	10.04	0.01	
6/11/24 10:08	3.89	10.06	0.00	
6/11/24 10:09	3.92	10.04	0.00	
6/11/24 10:10	3.92	10.04	0.00	
6/11/24 10:11	3.91	10.04	0.00	
6/11/24 10:12	3.91	10.05	0.00	
6/11/24 10:13	3.92	10.04	0.00	
6/11/24 10:14	3.89	10.05	0.00	
6/11/24 10:15	3.93	10.03	0.00	
6/11/24 10:16	3.90	10.05	0.00	
6/11/24 10:17	3.91	10.04	0.00	
6/11/24 10:18	3.93	10.02	0.00	
6/11/24 10:19	3.94	10.03	0.04	End THC 1 hr
6/11/24 10:20	3.91	10.04	0.09	
6/11/24 10:21	3.88	10.05	0.62	
6/11/24 10:22	3.93	10.01	0.00	
6/11/24 10:23	3.90	10.03	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 10:24	3.90	10.03	3.77	
6/11/24 10:25	3.93	10.02	12.28	
6/11/24 10:26	3.93	10.02	12.31	
6/11/24 10:27	3.93	10.02	5.40	
6/11/24 10:28	3.92	10.02	0.00	
6/11/24 10:29	3.93	10.02	0.01	
6/11/24 10:30	3.93	10.02	0.00	Start THC 1 hr
6/11/24 10:31	3.95	10.01	0.01	
6/11/24 10:32	3.92	10.03	0.00	
6/11/24 10:33	3.93	10.02	0.00	
6/11/24 10:34	3.91	10.03	0.00	
6/11/24 10:35	3.98	9.99	0.00	
6/11/24 10:36	3.90	10.04	0.00	
6/11/24 10:37	3.89	10.04	0.00	
6/11/24 10:38	3.91	10.03	0.01	
6/11/24 10:39	3.94	10.01	0.02	
6/11/24 10:40	3.90	10.03	0.01	
6/11/24 10:41	3.92	10.02	0.04	
6/11/24 10:42	3.93	10.01	0.04	
6/11/24 10:43	3.93	10.01	0.05	
6/11/24 10:44	3.93	10.01	0.06	
6/11/24 10:45	3.95	10.00	0.07	
6/11/24 10:46	3.91	10.02	0.06	
6/11/24 10:47	3.93	10.00	0.04	
6/11/24 10:48	3.93	10.00	0.06	
6/11/24 10:49	3.92	10.01	0.07	
6/11/24 10:50	3.91	10.02	0.07	
6/11/24 10:51	3.93	10.00	0.07	
6/11/24 10:52	3.94	10.00	0.07	
6/11/24 10:53	3.93	10.00	0.09	
6/11/24 10:54	3.90	10.02	0.16	
6/11/24 10:55	3.93	10.00	0.19	
6/11/24 10:56	3.93	10.00	0.23	
6/11/24 10:57	3.93	10.00	0.11	
6/11/24 10:58	3.93	10.00	0.07	
6/11/24 10:59	3.93	10.00	0.07	
6/11/24 11:00	3.96	9.98	0.11	
6/11/24 11:01	3.95	9.98	0.08	
6/11/24 11:02	3.93	10.00	0.20	
6/11/24 11:03	3.91	10.01	0.23	
6/11/24 11:04	3.94	9.98	0.26	
6/11/24 11:05	3.95	9.98	0.23	
6/11/24 11:06	3.95	9.98	0.24	
6/11/24 11:07	3.93	9.99	0.18	
6/11/24 11:08	3.93	9.99	0.18	
6/11/24 11:09	3.94	9.99	0.25	
6/11/24 11:10	3.89	10.01	0.27	
6/11/24 11:11	3.96	9.97	0.27	
6/11/24 11:12	3.91	10.00	0.28	
6/11/24 11:13	3.94	9.99	0.26	
6/11/24 11:14	3.96	9.98	0.27	
6/11/24 11:15	3.96	9.97	0.28	
6/11/24 11:16	3.93	9.98	0.21	
6/11/24 11:17	3.93	9.98	0.22	
6/11/24 11:18	3.96	9.97	0.20	
6/11/24 11:19	3.93	9.98	0.17	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 11:20	3.96	9.96	0.21	
6/11/24 11:21	3.96	9.96	0.25	
6/11/24 11:22	3.95	9.97	0.23	
6/11/24 11:23	3.93	9.98	0.24	
6/11/24 11:24	3.95	9.96	0.27	
6/11/24 11:25	3.95	9.97	0.28	
6/11/24 11:26	3.96	9.96	0.28	
6/11/24 11:27	3.95	9.96	0.26	
6/11/24 11:28	3.93	9.97	0.25	
6/11/24 11:29	3.92	9.98	0.31	End THC 1 hr
6/11/24 11:30	3.96	9.96	0.33	
6/11/24 11:31	3.94	9.96	0.30	
6/11/24 11:32	3.96	9.95	0.78	
6/11/24 11:33	3.95	9.96	0.01	
6/11/24 11:34	3.96	9.96	0.00	
6/11/24 11:35	3.94	9.97	4.83	
6/11/24 11:36	3.95	9.96	11.09	
6/11/24 11:37	3.94	9.97	11.02	
6/11/24 11:38	3.96	9.96	12.38	
6/11/24 11:39	3.95	9.97	12.27	
6/11/24 11:40	3.91	9.99	5.01	
6/11/24 11:41	3.91	9.99	0.17	
6/11/24 11:42	3.93	9.97	0.20	
6/11/24 11:43	3.93	9.97	0.22	Start THC 1 hr
6/11/24 11:44	3.92	9.98	0.24	
6/11/24 11:45	3.92	9.98	0.27	
6/11/24 11:46	3.94	9.97	0.27	
6/11/24 11:47	3.92	9.98	0.24	
6/11/24 11:48	3.92	9.98	0.27	
6/11/24 11:49	3.95	9.97	0.26	
6/11/24 11:50	3.92	9.97	0.24	
6/11/24 11:51	3.95	9.96	0.17	
6/11/24 11:52	3.92	9.97	0.16	
6/11/24 11:53	3.93	9.97	0.17	
6/11/24 11:54	3.93	9.96	0.19	
6/11/24 11:55	3.94	9.96	0.19	
6/11/24 11:56	3.92	9.97	0.19	
6/11/24 11:57	3.91	9.98	0.20	
6/11/24 11:58	3.88	9.99	0.21	
6/11/24 11:59	3.90	9.97	0.22	
6/11/24 12:00	3.98	9.92	0.19	
6/11/24 12:01	3.90	9.98	0.18	
6/11/24 12:02	3.90	9.98	0.16	
6/11/24 12:03	3.93	9.96	0.16	
6/11/24 12:04	3.96	9.94	0.16	
6/11/24 12:05	3.94	9.96	0.16	
6/11/24 12:06	3.91	9.97	0.16	
6/11/24 12:07	3.93	9.95	0.15	
6/11/24 12:08	3.92	9.95	0.13	
6/11/24 12:09	3.93	9.95	0.13	
6/11/24 12:10	3.90	9.96	0.13	
6/11/24 12:11	3.93	9.94	0.12	
6/11/24 12:12	3.97	9.92	0.12	
6/11/24 12:13	3.91	9.96	0.10	
6/11/24 12:14	3.90	9.97	0.16	
6/11/24 12:15	3.90	9.97	0.25	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 12:16	3.93	9.95	0.23	
6/11/24 12:17	3.91	9.96	0.18	
6/11/24 12:18	3.91	9.96	0.17	
6/11/24 12:19	3.92	9.95	0.17	
6/11/24 12:20	3.92	9.95	0.16	
6/11/24 12:21	3.95	9.93	0.16	
6/11/24 12:22	3.91	9.96	0.16	
6/11/24 12:23	3.90	9.96	0.25	
6/11/24 12:24	3.93	9.94	0.27	
6/11/24 12:25	3.95	9.92	0.17	
6/11/24 12:26	3.92	9.94	0.16	
6/11/24 12:27	3.88	9.96	0.14	
6/11/24 12:28	3.92	9.93	0.20	
6/11/24 12:29	3.92	9.94	0.18	
6/11/24 12:30	3.96	9.91	0.22	
6/11/24 12:31	3.93	9.93	0.22	
6/11/24 12:32	3.93	9.93	0.20	
6/11/24 12:33	3.95	9.91	0.21	
6/11/24 12:34	3.94	9.92	0.17	
6/11/24 12:35	3.90	9.94	0.13	
6/11/24 12:36	3.91	9.94	0.15	
6/11/24 12:37	3.98	9.89	0.16	
6/11/24 12:38	3.92	9.92	0.15	
6/11/24 12:39	3.90	9.94	0.20	
6/11/24 12:40	3.98	9.89	0.26	
6/11/24 12:41	3.89	9.93	0.25	
6/11/24 12:42	3.89	9.94	0.25	End THC 1 hr
6/11/24 12:43	3.92	9.92	0.27	
6/11/24 12:44	3.92	9.92	0.95	
6/11/24 12:45	3.92	9.92	0.01	
6/11/24 12:46	3.92	9.92	0.00	
6/11/24 12:47	4.00	9.86	5.25	
6/11/24 12:48	3.95	9.90	12.26	
6/11/24 12:49	4.01	9.87	12.31	
6/11/24 12:50	3.97	9.89	12.33	
6/11/24 12:51	3.95	9.90	12.35	
6/11/24 12:52	3.94	9.90	12.35	
6/11/24 12:53	3.94	9.90	12.37	
6/11/24 12:54	3.98	9.88	12.37	
6/11/24 12:55	3.96	9.89	1.80	
6/11/24 12:56	3.98	9.87	0.14	
6/11/24 12:57	3.98	9.87	0.13	Start THC 1 hr
6/11/24 12:58	3.95	9.89	0.14	
6/11/24 12:59	3.95	9.89	0.13	
6/11/24 13:00	3.95	9.89	0.13	
6/11/24 13:01	3.98	9.88	0.17	
6/11/24 13:02	3.97	9.88	0.19	
6/11/24 13:03	4.00	9.86	0.14	
6/11/24 13:04	3.96	9.88	0.15	
6/11/24 13:05	3.94	9.89	0.20	
6/11/24 13:06	3.94	9.90	0.17	
6/11/24 13:07	3.95	9.89	0.18	
6/11/24 13:08	3.96	9.88	0.22	
6/11/24 13:09	4.00	9.86	0.25	
6/11/24 13:10	3.96	9.89	0.25	
6/11/24 13:11	3.97	9.87	0.22	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 13:12	3.92	9.91	0.17	
6/11/24 13:13	3.95	9.89	0.18	
6/11/24 13:14	3.96	9.88	0.19	
6/11/24 13:15	3.99	9.86	0.17	
6/11/24 13:16	4.00	9.86	0.17	
6/11/24 13:17	4.01	9.85	0.18	
6/11/24 13:18	3.98	9.87	0.17	
6/11/24 13:19	3.95	9.89	0.16	
6/11/24 13:20	3.96	9.87	0.18	
6/11/24 13:21	3.97	9.87	0.15	
6/11/24 13:22	3.96	9.87	0.22	
6/11/24 13:23	3.94	9.89	0.20	
6/11/24 13:24	3.99	9.86	0.15	
6/11/24 13:25	3.94	9.88	0.20	
6/11/24 13:26	3.98	9.87	0.25	
6/11/24 13:27	3.97	9.87	0.25	
6/11/24 13:28	4.00	9.85	0.26	
6/11/24 13:29	3.96	9.87	0.26	
6/11/24 13:30	3.98	9.86	0.25	
6/11/24 13:31	3.91	9.90	0.68	
6/11/24 13:32	3.94	9.88	0.05	
6/11/24 13:33	3.99	9.86	0.00	
6/11/24 13:34	4.02	9.84	0.00	
6/11/24 13:35	3.97	9.87	3.85	
6/11/24 13:36	4.00	9.84	12.08	
6/11/24 13:37	3.96	9.87	12.28	
6/11/24 13:38	3.94	9.88	12.32	
6/11/24 13:39	3.98	9.85	5.66	
6/11/24 13:40	4.00	9.85	0.00	
6/11/24 13:41	4.00	9.85	0.00	
6/11/24 13:42	3.99	9.85	0.00	
6/11/24 13:43	3.94	9.88	0.00	
6/11/24 13:44	3.96	9.86	0.00	
6/11/24 13:45	3.99	9.85	0.00	
6/11/24 13:46	3.99	9.85	0.00	
6/11/24 13:47	4.00	9.85	27.24	
6/11/24 13:48	3.98	9.86	65.71	
6/11/24 13:49	4.02	9.84	65.75	
6/11/24 13:50	4.01	9.84	65.81	
6/11/24 13:51	3.98	9.85	47.27	
6/11/24 13:52	6.94	8.57	0.21	
6/11/24 13:53	11.10	10.88	0.21	
6/11/24 13:54	11.11	10.89	0.25	
6/11/24 13:55	10.55	10.37	0.25	
6/11/24 13:56	0.19	0.15	0.25	
6/11/24 13:57	0.09	0.06	0.33	
6/11/24 13:58	0.09	0.05	0.35	
6/11/24 13:59	1.95	4.90	0.26	
6/11/24 14:00	3.95	9.85	0.34	
6/11/24 14:01	3.94	9.87	0.33	
6/11/24 14:02	3.92	9.88	0.35	
6/11/24 14:03	3.99	9.85	0.34	
6/11/24 14:04	3.94	9.87	0.22	
6/11/24 14:05	3.94	9.87	0.20	
6/11/24 14:06	3.95	9.86	0.26	
6/11/24 14:07	3.96	9.86	0.21	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 14:08	3.95	9.87	0.22	
6/11/24 14:09	3.91	9.89	0.20	
6/11/24 14:10	3.93	9.87	0.21	
6/11/24 14:11	3.96	9.85	0.26	
6/11/24 14:12	3.94	9.87	0.27	
6/11/24 14:13	3.95	9.87	0.27	
6/11/24 14:14	3.94	9.87	0.20	
6/11/24 14:15	3.96	9.85	0.24	
6/11/24 14:16	3.94	9.86	0.28	
6/11/24 14:17	3.90	9.88	0.27	
6/11/24 14:18	3.96	9.84	0.20	
6/11/24 14:19	3.99	9.82	0.28	
6/11/24 14:20	3.96	9.84	0.30	
6/11/24 14:21	3.95	9.85	0.31	
6/11/24 14:22	3.98	9.83	0.28	
6/11/24 14:23	3.99	9.82	0.21	
6/11/24 14:24	3.94	9.85	0.22	
6/11/24 14:25	3.94	9.89	0.31	
6/11/24 14:26	3.95	9.99	0.28	
6/11/24 14:27	3.96	11.40	0.27	
6/11/24 14:28	3.98	12.94	0.17	
6/11/24 14:29	3.95	13.23	0.25	
6/11/24 14:30	4.00	12.52	0.31	
6/11/24 14:31	3.97	13.36	0.22	
6/11/24 14:32	3.91	11.05	0.17	
6/11/24 14:33	3.93	9.98	0.25	
6/11/24 14:34	3.97	9.89	0.26	
6/11/24 14:35	3.92	9.88	0.26	
6/11/24 14:36	3.97	9.84	0.27	
6/11/24 14:37	3.95	9.84	0.19	
6/11/24 14:38	3.94	9.84	0.16	
6/11/24 14:39	3.93	9.84	0.17	
6/11/24 14:40	3.94	9.84	0.18	
6/11/24 14:41	3.94	9.84	0.16	
6/11/24 14:42	3.94	9.84	0.16	
6/11/24 14:43	3.99	9.80	0.17	
6/11/24 14:44	3.96	9.82	0.28	
6/11/24 14:45	3.93	9.84	0.30	
6/11/24 14:46	3.89	9.87	0.27	
6/11/24 14:47	3.95	9.83	0.27	
6/11/24 14:48	3.93	9.84	0.25	
6/11/24 14:49	3.92	9.84	0.25	
6/11/24 14:50	3.88	9.87	0.19	
6/11/24 14:51	3.94	9.84	0.21	
6/11/24 14:52	3.95	9.83	0.23	
6/11/24 14:53	3.93	9.84	0.21	
6/11/24 14:54	3.93	9.84	0.28	
6/11/24 14:55	3.94	9.83	0.24	
6/11/24 14:56	3.91	9.85	0.23	
6/11/24 14:57	3.91	9.86	0.27	
6/11/24 14:58	3.96	9.82	0.24	
6/11/24 14:59	3.94	9.83	0.26	
6/11/24 15:00	3.96	9.82	0.28	
6/11/24 15:01	3.92	9.84	0.30	
6/11/24 15:02	3.92	9.84	0.31	
6/11/24 15:03	3.94	9.83	0.29	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 15:04	3.95	9.82	0.27	
6/11/24 15:05	4.00	9.79	0.19	
6/11/24 15:06	3.92	9.84	0.24	
6/11/24 15:07	3.93	9.83	0.24	
6/11/24 15:08	3.91	9.84	0.19	
6/11/24 15:09	3.96	9.81	0.23	
6/11/24 15:10	3.98	9.80	0.28	End THC 1 hr
6/11/24 15:11	3.97	9.80	0.21	
6/11/24 15:12	3.98	9.80	0.22	
6/11/24 15:13	3.94	9.82	0.25	
6/11/24 15:14	3.96	9.81	0.22	
6/11/24 15:15	3.93	9.83	0.64	
6/11/24 15:16	3.90	9.84	0.05	
6/11/24 15:17	3.93	9.83	0.01	
6/11/24 15:18	3.95	9.82	0.01	
6/11/24 15:19	3.97	9.81	0.01	
6/11/24 15:20	3.94	9.83	0.01	
6/11/24 15:21	3.97	9.81	9.82	
6/11/24 15:22	4.00	9.80	12.32	
6/11/24 15:23	3.96	9.82	12.31	
6/11/24 15:24	3.93	9.83	12.34	
6/11/24 15:25	3.94	9.83	12.37	
6/11/24 15:26	3.98	9.81	12.36	
6/11/24 15:27	3.97	9.81	12.33	
6/11/24 15:28	3.98	9.81	3.03	
6/11/24 15:29	4.00	9.79	0.20	
6/11/24 15:30	3.96	9.82	0.13	Start THC 1 hr
6/11/24 15:31	3.95	9.82	0.13	
6/11/24 15:32	3.95	9.82	0.14	
6/11/24 15:33	3.94	9.82	0.16	
6/11/24 15:34	3.94	9.83	0.14	
6/11/24 15:35	3.94	9.83	0.13	
6/11/24 15:36	3.95	9.82	0.15	
6/11/24 15:37	3.90	9.85	0.13	
6/11/24 15:38	3.93	9.83	0.18	
6/11/24 15:39	3.95	9.82	0.19	
6/11/24 15:40	3.92	9.84	0.19	
6/11/24 15:41	3.95	9.82	0.19	
6/11/24 15:42	3.97	9.81	0.16	
6/11/24 15:43	3.95	9.82	0.14	
6/11/24 15:44	3.97	9.81	0.14	
6/11/24 15:45	3.89	9.85	0.13	
6/11/24 15:46	3.91	9.85	0.13	
6/11/24 15:47	3.91	9.84	0.13	
6/11/24 15:48	3.93	9.83	0.13	
6/11/24 15:49	3.90	9.86	0.13	
6/11/24 15:50	3.95	9.82	0.13	
6/11/24 15:51	3.95	9.82	0.15	
6/11/24 15:52	3.95	9.82	0.14	
6/11/24 15:53	3.95	9.82	0.17	
6/11/24 15:54	3.99	9.80	0.13	
6/11/24 15:55	3.96	9.82	0.10	
6/11/24 15:56	3.96	9.82	0.10	
6/11/24 15:57	3.97	9.81	0.10	
6/11/24 15:58	3.95	9.82	0.13	
6/11/24 15:59	3.90	9.85	0.16	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 16:00	3.96	9.82	0.14	
6/11/24 16:01	3.96	9.82	0.13	
6/11/24 16:02	3.94	9.83	0.13	
6/11/24 16:03	3.96	9.81	0.11	
6/11/24 16:04	3.92	9.83	0.13	
6/11/24 16:05	3.89	9.85	0.13	
6/11/24 16:06	3.90	9.85	0.13	
6/11/24 16:07	3.93	9.83	0.15	
6/11/24 16:08	3.98	9.81	0.13	
6/11/24 16:09	4.00	9.80	0.10	
6/11/24 16:10	3.88	9.86	0.10	
6/11/24 16:11	3.93	9.83	0.10	
6/11/24 16:12	3.94	9.83	0.11	
6/11/24 16:13	3.98	9.81	0.11	
6/11/24 16:14	3.95	9.82	0.10	
6/11/24 16:15	3.95	9.82	0.10	
6/11/24 16:16	3.94	9.83	0.11	
6/11/24 16:17	3.92	9.84	0.12	
6/11/24 16:18	3.94	9.83	0.11	
6/11/24 16:19	3.94	9.82	0.11	
6/11/24 16:20	3.93	9.83	0.13	
6/11/24 16:21	3.95	9.82	0.16	
6/11/24 16:22	3.96	9.81	0.18	
6/11/24 16:23	3.91	9.83	0.18	
6/11/24 16:24	3.95	9.81	0.18	
6/11/24 16:25	3.92	9.82	0.13	
6/11/24 16:26	3.92	9.83	0.25	
6/11/24 16:27	3.94	9.82	0.23	
6/11/24 16:28	3.94	9.82	0.10	
6/11/24 16:29	3.93	9.82	0.10	End THC 1 hr
6/11/24 16:30	3.90	9.84	0.10	
6/11/24 16:31	3.91	9.84	0.62	
6/11/24 16:32	3.89	9.85	0.11	
6/11/24 16:33	3.94	9.83	0.01	
6/11/24 16:34	3.93	9.83	0.00	
6/11/24 16:35	3.91	9.85	3.14	
6/11/24 16:36	3.91	9.85	12.28	
6/11/24 16:37	3.97	9.82	12.34	
6/11/24 16:38	3.94	9.84	5.24	
6/11/24 16:39	3.92	9.84	0.16	
6/11/24 16:40	3.96	9.82	0.10	
6/11/24 16:41	3.93	9.84	0.08	
6/11/24 16:42	3.92	9.84	0.08	Start THC 1 hr
6/11/24 16:43	3.94	9.83	0.10	
6/11/24 16:44	3.91	9.84	0.10	
6/11/24 16:45	3.87	9.87	0.10	
6/11/24 16:46	3.90	9.85	0.16	
6/11/24 16:47	3.97	9.81	0.18	
6/11/24 16:48	3.90	9.85	0.18	
6/11/24 16:49	3.91	9.84	0.16	
6/11/24 16:50	3.91	9.84	0.11	
6/11/24 16:51	3.90	9.85	0.07	
6/11/24 16:52	3.88	9.86	0.11	
6/11/24 16:53	3.92	9.83	0.12	
6/11/24 16:54	3.93	9.83	0.09	
6/11/24 16:55	3.94	9.83	0.16	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 16:56	3.92	9.84	0.14	
6/11/24 16:57	3.90	9.85	0.12	
6/11/24 16:58	3.91	9.85	0.09	
6/11/24 16:59	3.92	9.84	0.18	
6/11/24 17:00	3.88	9.86	0.17	
6/11/24 17:01	3.90	9.85	0.19	
6/11/24 17:02	3.92	9.84	0.16	
6/11/24 17:03	3.94	9.82	0.13	
6/11/24 17:04	3.90	9.84	0.13	
6/11/24 17:05	3.90	9.85	0.17	
6/11/24 17:06	3.93	9.83	0.23	
6/11/24 17:07	3.94	9.82	0.22	
6/11/24 17:08	3.91	9.84	0.21	
6/11/24 17:09	3.92	9.84	0.15	
6/11/24 17:10	3.92	9.84	0.10	
6/11/24 17:11	3.90	9.85	0.11	
6/11/24 17:12	3.92	9.84	0.15	
6/11/24 17:13	3.90	9.85	0.08	
6/11/24 17:14	3.92	9.84	0.10	
6/11/24 17:15	3.92	9.84	0.17	
6/11/24 17:16	3.93	9.84	0.16	
6/11/24 17:17	3.93	9.83	0.13	
6/11/24 17:18	3.93	9.83	0.16	
6/11/24 17:19	3.91	9.84	0.11	
6/11/24 17:20	3.91	9.85	0.08	
6/11/24 17:21	3.93	9.83	0.07	
6/11/24 17:22	3.94	9.83	0.04	
6/11/24 17:23	3.90	9.84	0.04	
6/11/24 17:24	3.94	9.83	0.04	
6/11/24 17:25	3.94	9.83	0.08	
6/11/24 17:26	3.93	9.84	0.04	
6/11/24 17:27	3.89	9.86	0.05	
6/11/24 17:28	3.89	9.86	0.04	
6/11/24 17:29	3.90	9.85	0.07	
6/11/24 17:30	3.94	9.83	0.13	
6/11/24 17:31	3.91	9.85	0.17	
6/11/24 17:32	3.91	9.85	0.12	
6/11/24 17:33	3.92	9.84	0.06	
6/11/24 17:34	3.90	9.85	0.14	
6/11/24 17:35	3.96	9.81	0.14	
6/11/24 17:36	3.94	9.83	0.12	
6/11/24 17:37	3.93	9.83	0.14	
6/11/24 17:38	3.91	9.85	0.11	
6/11/24 17:39	3.95	9.82	0.10	
6/11/24 17:40	3.90	9.85	0.12	
6/11/24 17:41	3.90	9.84	0.16	End THC 1 hr
6/11/24 17:42	3.88	9.86	0.17	
6/11/24 17:43	3.90	9.85	0.62	
6/11/24 17:44	3.92	9.84	0.00	
6/11/24 17:45	3.94	9.83	0.00	
6/11/24 17:46	3.92	9.84	1.51	
6/11/24 17:47	3.93	9.84	12.14	
6/11/24 17:48	3.92	9.84	12.28	
6/11/24 17:49	3.92	9.85	12.34	
6/11/24 17:50	3.91	9.87	5.94	
6/11/24 17:51	3.92	9.87	0.07	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 17:52	3.90	9.89	0.13	
6/11/24 17:53	3.87	9.90	0.13	Start THC 1 hr
6/11/24 17:54	3.88	9.90	0.06	
6/11/24 17:55	3.91	9.88	0.09	
6/11/24 17:56	3.90	9.88	0.10	
6/11/24 17:57	3.94	9.86	0.07	
6/11/24 17:58	3.90	9.88	0.08	
6/11/24 17:59	3.88	9.89	0.09	
6/11/24 18:00	3.89	9.89	0.15	
6/11/24 18:01	3.86	9.90	0.18	
6/11/24 18:02	3.87	9.90	0.19	
6/11/24 18:03	3.86	9.90	0.19	
6/11/24 18:04	3.90	9.88	0.18	
6/11/24 18:05	3.87	9.91	0.12	
6/11/24 18:06	3.90	9.90	0.10	
6/11/24 18:07	3.89	9.91	0.05	
6/11/24 18:08	3.92	9.90	0.04	
6/11/24 18:09	3.87	9.93	0.06	
6/11/24 18:10	3.88	9.91	0.07	
6/11/24 18:11	3.86	9.92	0.09	
6/11/24 18:12	3.87	9.92	0.09	
6/11/24 18:13	3.86	9.93	0.13	
6/11/24 18:14	3.88	9.92	0.14	
6/11/24 18:15	3.93	9.89	0.16	
6/11/24 18:16	3.88	9.92	0.16	
6/11/24 18:17	3.88	9.91	0.19	
6/11/24 18:18	3.86	9.92	0.17	
6/11/24 18:19	3.86	9.92	0.17	
6/11/24 18:20	3.90	9.90	0.16	
6/11/24 18:21	3.86	9.92	0.16	
6/11/24 18:22	3.89	9.90	0.12	
6/11/24 18:23	3.90	9.90	0.08	
6/11/24 18:24	3.88	9.91	0.05	
6/11/24 18:25	3.89	9.91	0.07	
6/11/24 18:26	3.89	9.92	0.13	
6/11/24 18:27	3.90	9.92	8.86	
6/11/24 18:28	3.92	9.90	12.27	
6/11/24 18:29	3.90	9.92	12.29	
6/11/24 18:30	3.89	9.91	5.30	
6/11/24 18:31	3.86	9.92	0.00	
6/11/24 18:32	3.87	9.92	0.00	
6/11/24 18:33	3.90	9.90	0.00	
6/11/24 18:34	3.88	9.91	0.00	
6/11/24 18:35	3.90	9.90	0.00	
6/11/24 18:36	3.87	9.92	0.00	
6/11/24 18:37	3.90	9.92	0.00	
6/11/24 18:38	3.88	9.93	0.00	
6/11/24 18:39	3.90	9.92	0.00	
6/11/24 18:40	3.89	9.91	0.00	
6/11/24 18:41	3.88	9.90	0.00	
6/11/24 18:42	3.88	9.89	0.00	
6/11/24 18:43	3.94	9.84	50.84	
6/11/24 18:44	3.91	9.84	65.23	
6/11/24 18:45	3.95	9.81	65.26	
6/11/24 18:46	4.01	9.76	65.35	
6/11/24 18:47	3.95	9.79	22.75	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/11/24 18:48	0.78	1.37	0.00	
6/11/24 18:49	0.09	0.09	0.00	
6/11/24 18:50	0.08	0.08	0.00	
6/11/24 18:51	2.57	2.80	0.00	
6/11/24 18:52	11.08	10.84	0.00	
6/11/24 18:53	11.11	10.90	0.00	
6/11/24 18:54	9.32	10.57	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 7:03	20.88	0.03	0.00	
6/12/24 7:04	6.97	0.01	0.00	
6/12/24 7:05	0.00	0.00	0.00	
6/12/24 7:06	0.76	0.19	0.00	
6/12/24 7:07	22.74	22.70	0.00	
6/12/24 7:08	22.98	22.75	0.00	
6/12/24 7:09	22.92	22.47	0.00	
6/12/24 7:10	22.90	22.80	0.00	
6/12/24 7:11	14.64	11.93	0.00	
6/12/24 7:12	11.17	10.79	0.00	
6/12/24 7:13	11.17	10.79	0.00	
6/12/24 7:14	11.17	10.79	0.00	
6/12/24 7:15	11.65	10.06	0.00	
6/12/24 7:16	20.74	0.00	0.00	
6/12/24 7:17	20.78	0.00	0.00	
6/12/24 7:18	20.79	0.00	0.00	
6/12/24 7:19	20.80	0.00	0.00	
6/12/24 7:20	20.80	0.00	0.00	
6/12/24 7:21	20.80	0.00	0.00	
6/12/24 7:22	20.80	0.00	0.00	
6/12/24 7:23	20.80	0.00	0.00	
6/12/24 7:24	20.80	0.00	0.00	
6/12/24 7:25	20.80	0.00	0.00	
6/12/24 7:26	20.80	0.00	0.00	
6/12/24 7:27	20.81	0.05	0.00	
6/12/24 7:28	20.81	0.14	0.00	
6/12/24 7:29	20.80	0.14	0.00	
6/12/24 7:30	20.81	0.14	0.00	
6/12/24 7:31	20.82	0.15	0.00	
6/12/24 7:32	20.81	0.15	24.10	
6/12/24 7:33	20.81	0.15	47.24	
6/12/24 7:34	20.82	0.15	47.41	
6/12/24 7:35	20.82	0.15	47.51	
6/12/24 7:36	20.82	0.15	47.56	
6/12/24 7:37	20.81	0.15	47.65	
6/12/24 7:38	20.12	0.69	29.98	
6/12/24 7:39	4.25	10.29	0.00	
6/12/24 7:40	3.86	10.80	0.00	
6/12/24 7:41	3.86	10.80	0.00	
6/12/24 7:42	3.83	10.83	0.00	
6/12/24 7:43	3.83	10.83	0.00	
6/12/24 7:44	3.83	10.83	0.00	
6/12/24 7:45	3.84	10.82	0.00	
6/12/24 7:46	3.84	10.82	0.00	
6/12/24 7:47	3.84	10.83	0.00	
6/12/24 7:48	3.83	10.84	0.00	
6/12/24 7:49	3.83	10.83	0.00	
6/12/24 7:50	3.84	10.83	0.00	
6/12/24 7:51	3.82	10.84	0.00	
6/12/24 7:52	3.83	10.84	7.05	
6/12/24 7:53	3.82	10.85	20.07	
6/12/24 7:54	3.85	10.83	20.80	
6/12/24 7:55	3.84	10.84	21.49	
6/12/24 7:56	3.86	10.83	21.49	
6/12/24 7:57	3.86	10.83	21.48	
6/12/24 7:58	3.88	10.82	10.98	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 7:59	3.89	10.80	7.30	
6/12/24 8:00	3.87	10.82	7.49	
6/12/24 8:01	3.85	10.83	7.45	
6/12/24 8:02	3.86	10.82	7.45	
6/12/24 8:03	3.85	10.82	7.46	
6/12/24 8:04	3.84	10.83	7.45	
6/12/24 8:05	3.85	10.83	9.89	
6/12/24 8:06	3.87	10.81	12.46	
6/12/24 8:07	3.89	10.80	12.47	
6/12/24 8:08	3.83	10.84	12.50	
6/12/24 8:09	3.84	10.83	12.47	
6/12/24 8:10	3.87	10.81	12.46	
6/12/24 8:11	3.88	10.80	12.46	
6/12/24 8:12	3.86	10.82	12.46	
6/12/24 8:13	3.84	10.83	12.43	
6/12/24 8:14	1.68	4.38	5.09	
6/12/24 8:15	0.05	0.12	0.00	
6/12/24 8:16	0.05	0.10	0.00	
6/12/24 8:17	3.46	4.23	0.00	
6/12/24 8:18	11.10	11.81	0.00	
6/12/24 8:19	11.12	11.84	0.00	
6/12/24 8:20	11.12	11.23	0.00	
6/12/24 8:21	11.13	11.03	0.00	
6/12/24 8:22	11.14	11.05	0.00	
6/12/24 8:23	9.89	10.85	0.00	
6/12/24 8:24	3.87	10.07	0.00	
6/12/24 8:25	3.86	10.05	0.00	
6/12/24 8:26	3.86	10.04	0.00	
6/12/24 8:27	3.87	10.03	0.00	
6/12/24 8:28	3.87	10.03	0.00	
6/12/24 8:29	3.86	10.03	0.00	
6/12/24 8:30	3.90	10.01	0.00	
6/12/24 8:31	3.89	10.02	0.00	
6/12/24 8:32	3.89	10.01	0.00	
6/12/24 8:33	3.89	10.02	0.00	
6/12/24 8:34	3.87	10.03	0.02	
6/12/24 8:35	3.87	10.03	0.00	
6/12/24 8:36	3.87	10.02	0.00	
6/12/24 8:37	3.86	10.03	0.00	
6/12/24 8:38	3.88	10.02	0.00	
6/12/24 8:39	3.89	10.01	0.00	
6/12/24 8:40	3.86	10.02	0.00	
6/12/24 8:41	3.86	10.02	0.00	
6/12/24 8:42	3.87	10.01	0.00	
6/12/24 8:43	3.87	10.02	0.00	
6/12/24 8:44	3.87	10.02	0.00	
6/12/24 8:45	3.87	10.02	0.00	
6/12/24 8:46	3.86	10.02	0.00	
6/12/24 8:47	3.82	10.04	0.00	
6/12/24 8:48	3.85	10.03	0.00	
6/12/24 8:49	3.84	10.03	0.00	
6/12/24 8:50	3.84	10.03	0.00	
6/12/24 8:51	3.85	10.03	0.01	
6/12/24 8:52	3.87	10.01	0.04	
6/12/24 8:53	3.86	10.02	0.00	
6/12/24 8:54	3.82	10.04	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 8:55	3.86	10.02	0.00	
6/12/24 8:56	3.83	10.04	0.00	
6/12/24 8:57	3.88	10.00	0.01	
6/12/24 8:58	3.85	10.01	0.00	
6/12/24 8:59	3.84	10.02	0.00	
6/12/24 9:00	3.87	10.00	0.00	
6/12/24 9:01	3.90	9.98	0.00	
6/12/24 9:02	3.85	10.01	0.00	
6/12/24 9:03	3.87	10.00	0.00	
6/12/24 9:04	3.85	10.01	0.00	
6/12/24 9:05	3.87	10.00	0.00	
6/12/24 9:06	3.84	10.02	0.00	
6/12/24 9:07	3.86	10.01	0.00	
6/12/24 9:08	3.86	10.01	0.00	
6/12/24 9:09	3.86	10.00	0.02	
6/12/24 9:10	3.83	10.02	0.08	
6/12/24 9:11	3.86	10.00	0.02	
6/12/24 9:12	3.85	10.00	0.01	
6/12/24 9:13	3.86	10.00	0.01	
6/12/24 9:14	3.87	9.99	0.00	
6/12/24 9:15	3.88	9.99	0.00	
6/12/24 9:16	3.87	9.99	0.00	
6/12/24 9:17	3.87	9.99	0.00	
6/12/24 9:18	3.88	9.98	0.00	
6/12/24 9:19	3.86	10.00	0.00	
6/12/24 9:20	3.88	9.98	0.00	
6/12/24 9:21	3.84	10.01	0.01	
6/12/24 9:22	3.88	9.98	0.02	
6/12/24 9:23	3.88	9.99	0.06	
6/12/24 9:24	3.88	9.98	0.08	
6/12/24 9:25	3.85	10.00	0.02	
6/12/24 9:26	3.85	10.00	0.00	
6/12/24 9:27	3.85	9.99	0.00	
6/12/24 9:28	3.87	9.98	0.00	
6/12/24 9:29	3.85	9.99	0.00	
6/12/24 9:30	3.87	9.97	0.00	
6/12/24 9:31	3.88	9.97	0.00	
6/12/24 9:32	3.89	9.97	0.00	
6/12/24 9:33	3.88	9.98	0.00	
6/12/24 9:34	3.91	9.96	0.00	
6/12/24 9:35	3.87	9.98	0.00	
6/12/24 9:36	3.84	10.00	0.00	
6/12/24 9:37	3.85	9.99	0.00	
6/12/24 9:38	3.87	9.98	0.00	
6/12/24 9:39	3.85	10.00	0.00	End THC 1 hr
6/12/24 9:40	3.86	9.99	0.00	
6/12/24 9:41	3.90	9.96	0.00	
6/12/24 9:42	3.82	10.01	0.00	
6/12/24 9:43	3.87	9.99	0.00	
6/12/24 9:44	3.89	10.02	0.00	
6/12/24 9:45	3.83	9.98	7.51	
6/12/24 9:46	3.87	9.95	12.31	
6/12/24 9:47	3.86	9.97	12.36	
6/12/24 9:48	3.88	9.96	12.35	
6/12/24 9:49	3.89	9.96	12.38	
6/12/24 9:50	3.87	9.96	11.64	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 9:51	3.87	9.97	0.11	
6/12/24 9:52	3.87	9.97	0.00	
6/12/24 9:53	3.88	9.96	0.00	
6/12/24 9:54	3.88	9.97	0.00	
6/12/24 9:55	3.91	9.95	0.00	
6/12/24 9:56	3.91	9.95	0.00	Start THC 1 hr
6/12/24 9:57	3.92	9.94	0.00	
6/12/24 9:58	3.86	9.97	0.00	
6/12/24 9:59	3.83	9.99	0.00	
6/12/24 10:00	3.87	9.97	0.04	
6/12/24 10:01	3.86	9.98	0.05	
6/12/24 10:02	3.89	9.96	0.11	
6/12/24 10:03	3.89	9.96	0.08	
6/12/24 10:04	3.88	9.96	0.07	
6/12/24 10:05	3.92	9.94	0.08	
6/12/24 10:06	3.91	9.95	0.00	
6/12/24 10:07	3.89	9.96	0.00	
6/12/24 10:08	3.89	9.96	0.00	
6/12/24 10:09	3.93	9.93	0.05	
6/12/24 10:10	3.86	9.97	0.08	
6/12/24 10:11	3.87	9.97	0.06	
6/12/24 10:12	3.90	9.95	0.01	
6/12/24 10:13	3.90	9.95	0.05	
6/12/24 10:14	3.91	9.94	0.04	
6/12/24 10:15	3.90	9.94	0.01	
6/12/24 10:16	3.88	9.95	0.00	
6/12/24 10:17	3.88	9.95	0.00	
6/12/24 10:18	3.87	9.95	0.00	
6/12/24 10:19	3.87	9.95	0.00	
6/12/24 10:20	3.86	9.96	0.00	
6/12/24 10:21	3.89	9.94	0.00	
6/12/24 10:22	3.88	9.95	0.02	
6/12/24 10:23	3.87	9.95	0.03	
6/12/24 10:24	3.83	9.97	0.03	
6/12/24 10:25	3.86	9.96	0.13	
6/12/24 10:26	3.84	9.98	0.10	
6/12/24 10:27	3.87	9.96	0.03	
6/12/24 10:28	3.86	9.96	0.01	
6/12/24 10:29	3.90	9.94	0.02	
6/12/24 10:30	3.83	9.98	0.04	
6/12/24 10:31	3.87	9.95	0.03	
6/12/24 10:32	3.86	9.96	0.00	
6/12/24 10:33	3.84	9.97	0.00	
6/12/24 10:34	3.89	9.93	0.00	
6/12/24 10:35	3.91	9.92	0.00	
6/12/24 10:36	3.86	9.95	0.00	
6/12/24 10:37	3.87	9.95	0.00	
6/12/24 10:38	3.87	9.94	0.00	
6/12/24 10:39	3.86	9.95	0.00	
6/12/24 10:40	3.86	9.94	0.00	
6/12/24 10:41	3.85	9.95	0.00	
6/12/24 10:42	3.82	9.97	0.00	
6/12/24 10:43	3.84	9.96	0.00	
6/12/24 10:44	3.85	9.94	0.00	
6/12/24 10:45	3.87	9.93	0.00	
6/12/24 10:46	3.83	9.96	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 10:47	3.82	9.96	0.00	
6/12/24 10:48	3.95	9.88	0.00	
6/12/24 10:49	3.88	9.92	0.00	
6/12/24 10:50	3.86	9.93	0.00	
6/12/24 10:51	3.90	9.91	0.00	
6/12/24 10:52	3.87	9.93	0.00	
6/12/24 10:53	3.86	9.94	0.00	
6/12/24 10:54	3.86	9.94	0.00	
6/12/24 10:55	3.85	9.94	0.00	End THC 1 hr
6/12/24 10:56	3.91	9.90	0.00	
6/12/24 10:57	3.87	9.93	0.00	
6/12/24 10:58	3.88	9.92	0.00	
6/12/24 10:59	3.89	9.91	0.00	
6/12/24 11:00	3.88	9.92	4.14	
6/12/24 11:01	3.89	9.91	12.30	
6/12/24 11:02	3.86	9.93	12.39	
6/12/24 11:03	3.88	9.92	12.41	
6/12/24 11:04	3.89	9.92	12.37	
6/12/24 11:05	3.87	9.92	7.17	
6/12/24 11:06	3.86	9.93	0.00	
6/12/24 11:07	3.91	9.90	0.00	
6/12/24 11:08	3.91	9.90	0.00	
6/12/24 11:09	3.87	9.92	0.00	Start THC 1 hr
6/12/24 11:10	3.91	9.90	0.00	
6/12/24 11:11	3.91	9.90	0.00	
6/12/24 11:12	3.87	9.92	0.00	
6/12/24 11:13	3.87	9.92	0.00	
6/12/24 11:14	3.88	9.91	0.00	
6/12/24 11:15	3.83	9.95	0.00	
6/12/24 11:16	3.89	9.91	0.00	
6/12/24 11:17	3.84	9.93	0.00	
6/12/24 11:18	3.86	9.92	0.00	
6/12/24 11:19	3.89	9.91	0.00	
6/12/24 11:20	3.83	9.94	0.00	
6/12/24 11:21	3.91	9.89	0.00	
6/12/24 11:22	3.80	9.95	0.00	
6/12/24 11:23	3.84	9.93	0.00	
6/12/24 11:24	3.92	9.88	0.00	
6/12/24 11:25	3.88	9.91	0.00	
6/12/24 11:26	3.93	9.88	0.00	
6/12/24 11:27	3.86	9.92	0.00	
6/12/24 11:28	3.87	9.91	0.00	
6/12/24 11:29	3.90	9.89	0.00	
6/12/24 11:30	3.96	9.86	0.00	
6/12/24 11:31	3.86	9.92	0.00	
6/12/24 11:32	3.88	9.91	0.00	
6/12/24 11:33	3.90	9.90	0.00	
6/12/24 11:34	3.88	9.91	0.00	
6/12/24 11:35	3.86	9.93	0.00	
6/12/24 11:36	3.89	9.91	0.00	
6/12/24 11:37	3.83	9.94	0.00	
6/12/24 11:38	3.85	9.92	0.00	
6/12/24 11:39	3.92	9.89	0.00	
6/12/24 11:40	3.91	9.89	0.00	
6/12/24 11:41	3.89	9.90	0.00	
6/12/24 11:42	3.87	9.91	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 11:43	3.88	9.90	0.00	
6/12/24 11:44	3.89	9.89	0.00	
6/12/24 11:45	3.87	9.90	0.00	
6/12/24 11:46	3.92	9.87	0.00	
6/12/24 11:47	3.89	9.89	0.00	
6/12/24 11:48	3.85	9.92	0.00	
6/12/24 11:49	3.87	9.91	0.00	
6/12/24 11:50	3.86	9.91	0.00	
6/12/24 11:51	3.91	9.89	0.00	
6/12/24 11:52	3.88	9.90	0.00	
6/12/24 11:53	3.89	9.90	0.00	
6/12/24 11:54	3.89	9.90	0.00	
6/12/24 11:55	3.85	9.91	0.00	
6/12/24 11:56	3.79	9.95	0.00	
6/12/24 11:57	3.89	9.89	0.00	
6/12/24 11:58	3.91	9.88	0.00	
6/12/24 11:59	3.91	9.88	0.00	
6/12/24 12:00	3.85	9.91	0.00	
6/12/24 12:01	3.87	9.91	0.00	
6/12/24 12:02	3.88	9.90	0.00	
6/12/24 12:03	3.89	9.89	0.00	
6/12/24 12:04	3.92	9.88	0.00	
6/12/24 12:05	3.86	9.91	0.00	
6/12/24 12:06	3.88	9.90	0.00	
6/12/24 12:07	3.87	9.90	0.00	
6/12/24 12:08	3.85	9.91	0.00	End THC 1 hr
6/12/24 12:09	3.87	9.90	0.00	
6/12/24 12:10	3.92	9.87	0.00	
6/12/24 12:11	3.86	9.91	0.00	
6/12/24 12:12	3.89	9.89	4.15	
6/12/24 12:13	3.90	9.88	12.28	
6/12/24 12:14	3.89	9.89	12.36	
6/12/24 12:15	3.92	9.88	6.00	
6/12/24 12:16	3.86	9.91	11.26	
6/12/24 12:17	3.89	9.89	12.57	
6/12/24 12:18	3.92	9.87	12.44	
6/12/24 12:19	3.85	9.91	12.42	
6/12/24 12:20	3.87	9.89	11.80	
6/12/24 12:21	3.85	9.91	0.08	
6/12/24 12:22	3.86	9.90	0.00	
6/12/24 12:23	3.86	9.90	0.00	
6/12/24 12:24	3.87	9.89	0.00	
6/12/24 12:25	3.88	9.89	0.00	
6/12/24 12:26	3.90	9.88	0.00	Start THC 1 hr
6/12/24 12:27	3.91	9.87	0.00	
6/12/24 12:28	3.87	9.89	0.00	
6/12/24 12:29	3.87	9.89	0.00	
6/12/24 12:30	3.90	9.88	0.00	
6/12/24 12:31	3.87	9.89	0.00	
6/12/24 12:32	3.87	9.89	0.00	
6/12/24 12:33	3.87	9.90	0.00	
6/12/24 12:34	3.83	9.92	0.00	
6/12/24 12:35	3.85	9.91	0.00	
6/12/24 12:36	3.93	9.87	0.00	
6/12/24 12:37	3.88	9.89	0.03	
6/12/24 12:38	3.82	9.93	0.05	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 12:39	3.88	9.89	0.03	
6/12/24 12:40	3.89	9.89	0.01	
6/12/24 12:41	3.88	9.89	0.00	
6/12/24 12:42	3.88	9.89	0.02	
6/12/24 12:43	3.89	9.88	0.03	
6/12/24 12:44	3.87	9.90	0.02	
6/12/24 12:45	3.86	9.90	0.00	
6/12/24 12:46	3.88	9.89	0.01	
6/12/24 12:47	3.87	9.90	0.01	
6/12/24 12:48	3.87	9.90	0.01	
6/12/24 12:49	3.85	9.91	0.01	
6/12/24 12:50	3.89	9.89	0.01	
6/12/24 12:51	3.89	9.88	0.02	End
6/12/24 12:52	3.84	9.90	0.01	
6/12/24 12:53	3.88	9.88	5.83	
6/12/24 12:54	3.88	9.88	14.48	
6/12/24 12:55	3.87	9.89	12.52	
6/12/24 12:56	3.92	9.86	12.55	
6/12/24 12:57	3.90	9.87	12.56	
6/12/24 12:58	3.88	9.89	1.96	
6/12/24 12:59	3.88	9.88	0.01	
6/12/24 13:00	3.87	9.88	0.01	
6/12/24 13:01	3.89	9.87	0.01	
6/12/24 13:02	3.85	9.89	0.00	
6/12/24 13:03	3.85	9.89	0.00	
6/12/24 13:04	3.84	9.90	0.00	
6/12/24 13:05	3.88	9.88	0.00	
6/12/24 13:06	3.86	9.89	0.01	
6/12/24 13:07	3.91	9.86	0.01	
6/12/24 13:08	3.89	9.86	0.01	
6/12/24 13:09	3.92	9.85	0.01	
6/12/24 13:10	3.92	9.84	0.01	
6/12/24 13:11	3.86	9.88	16.79	
6/12/24 13:12	3.85	9.89	60.03	
6/12/24 13:13	3.90	9.85	60.03	
6/12/24 13:14	3.90	9.86	60.04	
6/12/24 13:15	3.89	9.86	59.98	
6/12/24 13:16	3.87	9.86	59.98	
6/12/24 13:17	3.83	9.89	55.97	
6/12/24 13:18	2.10	5.15	0.27	
6/12/24 13:19	0.08	0.12	0.21	
6/12/24 13:20	0.08	0.11	0.22	
6/12/24 13:21	3.60	3.90	0.22	
6/12/24 13:22	11.06	10.78	0.23	
6/12/24 13:23	11.11	10.84	0.24	
6/12/24 13:24	8.01	10.42	0.24	
6/12/24 13:25	3.85	9.89	0.24	
6/12/24 13:26	3.92	9.85	0.23	
6/12/24 13:27	3.89	9.86	0.23	
6/12/24 13:28	3.87	9.87	0.23	
6/12/24 13:29	3.88	9.86	0.23	
6/12/24 13:30	3.79	9.90	0.22	
6/12/24 13:31	3.86	9.86	0.22	
6/12/24 13:32	3.83	9.88	0.20	
6/12/24 13:33	3.83	9.87	0.19	
6/12/24 13:34	3.85	9.86	0.19	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 13:35	3.87	10.06	0.19	
6/12/24 13:36	3.90	9.86	0.19	
6/12/24 13:37	3.87	9.85	0.19	
6/12/24 13:38	3.86	9.85	0.19	
6/12/24 13:39	3.88	9.84	0.15	
6/12/24 13:40	3.87	9.84	0.00	
6/12/24 13:41	3.89	9.83	0.00	
6/12/24 13:42	3.88	9.83	0.00	
6/12/24 13:43	3.86	9.84	0.00	
6/12/24 13:44	3.87	9.83	0.00	
6/12/24 13:45	3.87	9.84	0.01	
6/12/24 13:46	3.89	9.82	0.01	
6/12/24 13:47	3.84	9.85	0.02	
6/12/24 13:48	3.84	9.85	0.01	
6/12/24 13:49	3.88	9.83	0.00	
6/12/24 13:50	3.83	9.86	0.02	
6/12/24 13:51	3.84	9.85	0.03	
6/12/24 13:52	3.87	9.84	0.02	
6/12/24 13:53	3.86	9.84	0.01	
6/12/24 13:54	3.91	9.81	0.02	
6/12/24 13:55	3.87	9.83	0.04	
6/12/24 13:56	3.90	9.82	0.04	
6/12/24 13:57	3.86	9.84	0.04	
6/12/24 13:58	3.85	9.84	0.05	
6/12/24 13:59	3.82	9.86	0.05	
6/12/24 14:00	3.88	9.87	0.03	
6/12/24 14:01	3.84	9.96	0.02	
6/12/24 14:02	3.83	9.85	0.03	
6/12/24 14:03	3.85	9.84	0.04	
6/12/24 14:04	3.86	10.00	0.03	
6/12/24 14:05	3.83	9.84	0.01	
6/12/24 14:06	3.87	9.82	0.01	
6/12/24 14:07	3.85	9.83	0.03	
6/12/24 14:08	3.84	9.83	0.04	
6/12/24 14:09	3.87	9.81	0.02	
6/12/24 14:10	3.88	9.81	0.01	
6/12/24 14:11	3.80	9.85	0.01	
6/12/24 14:12	3.87	9.81	0.01	
6/12/24 14:13	3.87	10.03	0.00	
6/12/24 14:14	3.86	9.85	0.00	
6/12/24 14:15	3.90	9.79	0.00	
6/12/24 14:16	3.88	9.80	0.00	
6/12/24 14:17	3.83	9.83	0.00	
6/12/24 14:18	3.86	9.80	0.00	
6/12/24 14:19	3.84	9.82	0.00	
6/12/24 14:20	3.80	9.84	0.00	
6/12/24 14:21	3.86	9.81	0.00	
6/12/24 14:22	3.84	9.82	0.00	
6/12/24 14:23	3.87	9.80	0.00	
6/12/24 14:24	3.87	9.80	0.00	
6/12/24 14:25	3.86	9.81	0.00	
6/12/24 14:26	3.85	9.81	0.00	
6/12/24 14:27	3.86	9.81	0.00	
6/12/24 14:28	3.86	9.80	0.00	
6/12/24 14:29	3.83	9.82	0.00	
6/12/24 14:30	3.90	9.77	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 14:31	3.89	9.78	0.27	
6/12/24 14:32	3.87	9.79	0.00	
6/12/24 14:33	3.86	9.80	0.04	
6/12/24 14:34	3.81	9.83	0.06	
6/12/24 14:35	3.83	9.82	0.04	
6/12/24 14:36	3.90	10.08	5.50	
6/12/24 14:37	3.87	9.79	11.82	
6/12/24 14:38	3.81	9.82	4.53	
6/12/24 14:39	3.83	9.81	0.00	
6/12/24 14:40	3.82	9.81	10.92	
6/12/24 14:41	3.86	9.79	12.63	
6/12/24 14:42	3.85	9.80	12.66	
6/12/24 14:43	3.90	9.77	10.23	
6/12/24 14:44	3.88	9.78	0.00	
6/12/24 14:45	3.85	10.12	0.00	
6/12/24 14:46	3.81	9.90	0.00	
6/12/24 14:47	3.84	9.80	0.05	
6/12/24 14:48	3.88	9.77	0.04	
6/12/24 14:49	3.88	9.77	0.04	
6/12/24 14:50	3.87	9.78	0.04	
6/12/24 14:51	3.83	9.80	0.04	
6/12/24 14:52	3.84	9.79	0.04	
6/12/24 14:53	3.88	9.77	0.04	
6/12/24 14:54	3.87	9.77	0.04	
6/12/24 14:55	3.84	9.79	0.03	
6/12/24 14:56	3.89	9.76	0.04	
6/12/24 14:57	3.90	9.76	0.02	
6/12/24 14:58	3.86	9.77	0.01	
6/12/24 14:59	3.87	9.78	0.01	
6/12/24 15:00	3.88	9.77	0.00	
6/12/24 15:01	3.84	9.79	0.00	
6/12/24 15:02	3.84	9.79	0.00	
6/12/24 15:03	3.88	9.76	0.00	
6/12/24 15:04	3.91	9.75	0.00	
6/12/24 15:05	3.87	9.78	0.00	
6/12/24 15:06	3.86	10.10	0.00	
6/12/24 15:07	3.86	10.10	0.00	
6/12/24 15:08	3.84	9.80	0.00	
6/12/24 15:09	3.94	9.73	0.00	
6/12/24 15:10	3.85	9.78	0.00	
6/12/24 15:11	3.81	9.81	0.01	
6/12/24 15:12	3.88	9.77	0.01	
6/12/24 15:13	3.87	9.76	0.00	
6/12/24 15:14	3.87	9.77	0.00	
6/12/24 15:15	3.87	9.91	0.00	
6/12/24 15:16	3.87	10.25	0.00	
6/12/24 15:17	3.81	10.00	0.00	
6/12/24 15:18	3.96	9.72	0.00	
6/12/24 15:19	3.87	9.85	0.08	
6/12/24 15:20	3.92	10.13	0.14	
6/12/24 15:21	3.95	9.72	0.14	
6/12/24 15:22	3.85	9.78	0.12	
6/12/24 15:23	3.87	9.78	0.12	
6/12/24 15:24	3.88	9.76	0.04	
6/12/24 15:25	3.94	9.73	0.07	
6/12/24 15:26	3.91	9.75	0.11	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 15:27	3.88	9.76	0.08	
6/12/24 15:28	3.81	9.80	0.08	
6/12/24 15:29	3.85	9.78	0.11	
6/12/24 15:30	3.87	9.77	0.11	
6/12/24 15:31	3.88	9.76	0.12	
6/12/24 15:32	3.92	9.74	0.07	
6/12/24 15:33	3.87	9.78	0.05	
6/12/24 15:34	3.93	9.74	0.04	
6/12/24 15:35	3.90	9.81	0.05	
6/12/24 15:36	3.90	9.76	0.06	
6/12/24 15:37	3.93	9.79	0.09	
6/12/24 15:38	3.95	9.73	0.08	
6/12/24 15:39	3.83	9.85	0.05	
6/12/24 15:40	3.88	9.77	0.07	
6/12/24 15:41	3.89	9.76	0.06	
6/12/24 15:42	3.91	9.75	0.05	
6/12/24 15:43	3.92	9.75	0.04	
6/12/24 15:44	3.81	9.81	0.04	
6/12/24 15:45	3.90	9.76	0.04	
6/12/24 15:46	3.84	9.80	0.02	
6/12/24 15:47	3.87	9.78	0.01	
6/12/24 15:48	3.88	9.78	0.01	
6/12/24 15:49	3.84	9.80	7.68	
6/12/24 15:50	3.86	9.79	12.68	
6/12/24 15:51	3.87	9.77	12.74	
6/12/24 15:52	3.86	9.78	12.74	
6/12/24 15:53	3.89	9.76	12.77	
6/12/24 15:54	3.88	9.87	12.77	
6/12/24 15:55	3.89	9.76	12.77	
6/12/24 15:56	3.89	9.76	12.77	
6/12/24 15:57	3.85	9.79	12.76	
6/12/24 15:58	3.86	9.78	5.03	
6/12/24 15:59	3.91	9.75	0.19	
6/12/24 16:00	3.87	9.77	0.19	
6/12/24 16:01	3.88	9.77	0.17	
6/12/24 16:02	3.86	9.78	0.08	
6/12/24 16:03	3.86	9.78	0.09	
6/12/24 16:04	3.82	9.80	0.12	
6/12/24 16:05	3.88	9.77	0.10	
6/12/24 16:06	3.94	9.74	0.06	
6/12/24 16:07	3.89	9.76	0.02	
6/12/24 16:08	3.88	9.77	0.03	
6/12/24 16:09	3.87	9.77	0.04	
6/12/24 16:10	3.90	9.76	0.05	
6/12/24 16:11	3.94	9.73	0.04	
6/12/24 16:12	3.94	9.74	0.04	
6/12/24 16:13	3.85	9.78	0.02	
6/12/24 16:14	3.87	9.77	0.01	
6/12/24 16:15	3.84	9.79	0.01	
6/12/24 16:16	3.85	9.78	0.01	
6/12/24 16:17	3.89	9.76	0.01	
6/12/24 16:18	3.90	9.75	0.01	
6/12/24 16:19	3.87	9.84	0.01	
6/12/24 16:20	3.86	9.86	0.01	
6/12/24 16:21	3.89	9.76	0.01	
6/12/24 16:22	3.90	9.75	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 16:23	3.92	9.75	0.02	
6/12/24 16:24	3.88	9.77	0.03	
6/12/24 16:25	3.86	9.78	0.01	
6/12/24 16:26	3.87	9.78	0.01	
6/12/24 16:27	3.92	9.75	0.01	
6/12/24 16:28	3.87	9.78	0.00	
6/12/24 16:29	3.86	9.78	0.00	
6/12/24 16:30	3.90	9.75	0.00	
6/12/24 16:31	3.85	9.78	0.00	
6/12/24 16:32	3.88	9.77	0.00	
6/12/24 16:33	3.88	9.77	0.00	
6/12/24 16:34	3.88	9.76	0.00	
6/12/24 16:35	3.83	9.79	0.00	
6/12/24 16:36	3.92	9.74	0.00	
6/12/24 16:37	3.89	9.76	0.00	
6/12/24 16:38	3.91	9.75	0.00	
6/12/24 16:39	3.89	9.76	0.00	
6/12/24 16:40	3.88	9.76	0.00	
6/12/24 16:41	3.87	9.77	0.00	
6/12/24 16:42	3.89	9.75	0.00	
6/12/24 16:43	3.88	9.76	0.00	
6/12/24 16:44	3.86	9.77	0.00	
6/12/24 16:45	3.87	9.77	0.00	
6/12/24 16:46	3.87	9.76	0.02	
6/12/24 16:47	3.89	9.75	0.00	
6/12/24 16:48	3.92	9.74	0.00	
6/12/24 16:49	3.89	9.77	0.00	
6/12/24 16:50	3.88	9.77	0.01	
6/12/24 16:51	3.89	9.77	0.04	
6/12/24 16:52	3.89	9.76	0.04	
6/12/24 16:53	3.88	9.77	0.01	
6/12/24 16:54	3.85	9.78	0.01	
6/12/24 16:55	3.89	9.76	0.00	
6/12/24 16:56	3.92	9.74	0.01	
6/12/24 16:57	3.87	9.77	0.04	
6/12/24 16:58	3.88	9.77	0.05	
6/12/24 16:59	3.91	9.91	0.07	
6/12/24 17:00	3.86	9.79	0.07	
6/12/24 17:01	3.83	9.79	0.02	
6/12/24 17:02	3.90	9.76	0.01	
6/12/24 17:03	3.89	9.76	0.02	
6/12/24 17:04	3.85	9.78	0.11	
6/12/24 17:05	3.89	9.76	0.14	
6/12/24 17:06	3.90	9.76	0.18	
6/12/24 17:07	3.90	9.76	0.20	
6/12/24 17:08	3.89	9.76	8.64	
6/12/24 17:09	3.91	9.75	12.69	
6/12/24 17:10	3.85	9.79	12.71	
6/12/24 17:11	3.91	9.75	12.74	
6/12/24 17:12	3.88	9.77	12.76	
6/12/24 17:13	3.85	9.78	12.75	
6/12/24 17:14	3.86	9.78	12.76	
6/12/24 17:15	3.88	9.78	12.76	
6/12/24 17:16	3.87	9.78	12.76	
6/12/24 17:17	3.92	9.75	12.75	
6/12/24 17:18	3.90	9.77	12.75	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 17:19	3.90	9.76	12.72	
6/12/24 17:20	3.89	9.76	12.72	
6/12/24 17:21	3.85	9.78	12.71	
6/12/24 17:22	3.89	9.77	12.70	
6/12/24 17:23	3.89	9.76	12.70	
6/12/24 17:24	3.88	9.77	10.24	
6/12/24 17:25	3.91	9.75	0.05	
6/12/24 17:26	3.89	9.77	0.00	
6/12/24 17:27	3.87	9.78	0.00	
6/12/24 17:28	3.87	9.78	0.01	
6/12/24 17:29	3.91	9.76	0.00	
6/12/24 17:30	3.89	9.78	0.00	
6/12/24 17:31	3.92	9.76	0.00	
6/12/24 17:32	3.86	9.79	0.00	
6/12/24 17:33	3.89	9.77	0.00	
6/12/24 17:34	3.90	9.77	0.00	
6/12/24 17:35	3.89	9.78	0.00	
6/12/24 17:36	3.91	9.76	0.00	
6/12/24 17:37	3.88	9.78	0.00	
6/12/24 17:38	3.90	9.77	0.00	
6/12/24 17:39	3.87	9.78	0.00	
6/12/24 17:40	3.90	9.77	0.00	
6/12/24 17:41	3.86	9.79	0.00	
6/12/24 17:42	3.87	9.79	0.00	
6/12/24 17:43	3.89	9.77	0.00	
6/12/24 17:44	3.88	9.78	0.00	
6/12/24 17:45	3.94	9.75	0.42	
6/12/24 17:46	3.88	9.79	10.92	
6/12/24 17:47	3.89	9.79	12.63	
6/12/24 17:48	3.90	9.78	12.65	
6/12/24 17:49	3.85	9.81	12.67	
6/12/24 17:50	3.88	9.79	9.40	
6/12/24 17:51	3.88	9.79	0.21	
6/12/24 17:52	3.88	9.79	0.21	
6/12/24 17:53	3.91	9.78	0.17	
6/12/24 17:54	3.90	9.79	0.07	
6/12/24 17:55	3.88	9.80	0.07	
6/12/24 17:56	3.89	9.79	0.07	
6/12/24 17:57	3.88	9.80	0.07	
6/12/24 17:58	3.88	9.80	0.07	
6/12/24 17:59	3.88	9.79	0.07	
6/12/24 18:00	3.92	9.77	0.07	
6/12/24 18:01	3.91	9.76	0.07	
6/12/24 18:02	3.96	9.72	0.07	
6/12/24 18:03	3.89	9.75	0.07	
6/12/24 18:04	3.90	9.73	0.05	
6/12/24 18:05	3.92	9.71	0.04	
6/12/24 18:06	3.96	9.67	0.04	
6/12/24 18:07	3.92	9.68	36.44	
6/12/24 18:08	3.96	9.65	64.67	
6/12/24 18:09	3.97	9.63	64.74	
6/12/24 18:10	3.97	9.61	64.74	
6/12/24 18:11	3.97	9.60	64.67	
6/12/24 18:12	3.97	9.59	22.39	
6/12/24 18:13	4.00	9.56	0.03	
6/12/24 18:14	4.01	9.53	0.06	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/12/24 18:15	1.82	2.60	0.02	
6/12/24 18:16	0.09	0.12	0.00	
6/12/24 18:17	0.09	0.10	0.01	
6/12/24 18:18	0.08	0.09	0.04	
6/12/24 18:19	0.11	0.23	0.05	
6/12/24 18:20	9.56	9.39	0.04	
6/12/24 18:21	11.10	10.76	0.05	
6/12/24 18:22	11.11	10.92	0.06	
6/12/24 18:23	11.11	10.79	0.06	
6/12/24 18:24	11.12	10.80	0.05	
6/12/24 18:25	11.12	10.81	0.04	
6/12/24 18:26	11.12	10.80	0.06	
6/12/24 18:27	11.11	10.80	0.08	
6/12/24 18:28	11.11	10.80	0.08	
6/12/24 18:29	11.11	10.80	0.08	
6/12/24 18:30	11.12	10.80	0.07	
6/12/24 18:31	11.13	10.82	0.08	
6/12/24 18:32	11.13	10.82	0.08	
6/12/24 18:33	11.12	10.81	0.08	
6/12/24 18:34	11.12	10.81	0.09	
6/12/24 18:35	11.12	10.81	0.07	
6/12/24 18:36	11.13	10.82	0.04	
6/12/24 18:37	11.13	10.82	0.04	
6/12/24 18:38	11.13	10.82	0.04	
6/12/24 18:39	11.13	10.89	0.01	
6/12/24 18:40	11.13	10.85	0.02	
6/12/24 18:41	6.26	9.50	0.05	
6/12/24 18:42	4.71	8.91	0.03	
6/12/24 18:43	4.69	8.91	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 6:52	20.87	0.13	0.00	
6/13/24 6:53	4.24	0.09	0.00	
6/13/24 6:54	0.02	0.03	0.00	
6/13/24 6:55	0.00	0.03	0.00	
6/13/24 6:56	0.00	0.03	13.01	
6/13/24 6:57	0.00	0.03	1.39	
6/13/24 6:58	0.00	0.03	1.11	
6/13/24 6:59	12.12	10.98	1.15	
6/13/24 7:00	22.86	21.83	1.10	
6/13/24 7:01	11.93	11.04	1.15	
6/13/24 7:02	11.20	11.19	1.17	
6/13/24 7:03	11.19	11.19	1.15	
6/13/24 7:04	17.89	3.25	1.24	
6/13/24 7:05	20.75	0.15	0.45	
6/13/24 7:06	20.78	0.15	0.00	
6/13/24 7:07	20.79	0.18	0.00	
6/13/24 7:08	20.81	0.14	0.00	
6/13/24 7:09	9.90	6.30	0.00	
6/13/24 7:10	4.34	9.37	0.00	
6/13/24 7:11	4.33	9.37	0.00	
6/13/24 7:12	4.35	9.36	0.00	
6/13/24 7:13	4.33	9.37	0.00	
6/13/24 7:14	4.34	9.37	0.00	
6/13/24 7:15	4.30	9.38	0.00	
6/13/24 7:16	4.27	9.40	0.00	
6/13/24 7:17	4.28	9.39	0.00	
6/13/24 7:18	4.35	9.35	0.00	
6/13/24 7:19	4.35	9.35	0.00	
6/13/24 7:20	4.33	9.37	0.00	
6/13/24 7:21	4.37	9.35	0.00	
6/13/24 7:22	4.32	9.38	0.05	
6/13/24 7:23	4.28	9.54	69.47	
6/13/24 7:24	4.09	9.76	70.36	
6/13/24 7:25	4.21	9.70	70.41	
6/13/24 7:26	4.16	9.73	70.38	
6/13/24 7:27	4.08	9.79	70.37	
6/13/24 7:28	4.10	9.79	30.98	
6/13/24 7:29	4.12	9.79	0.37	
6/13/24 7:30	4.13	9.80	0.07	
6/13/24 7:31	4.12	9.84	0.07	
6/13/24 7:32	4.12	9.85	8.52	
6/13/24 7:33	4.06	9.90	22.25	
6/13/24 7:34	4.10	9.90	21.54	
6/13/24 7:35	4.10	9.91	21.48	
6/13/24 7:36	4.10	9.94	15.66	
6/13/24 7:37	4.07	9.97	7.42	
6/13/24 7:38	4.07	9.97	7.52	
6/13/24 7:39	4.12	9.95	7.52	
6/13/24 7:40	4.08	9.96	8.82	
6/13/24 7:41	4.09	9.95	12.50	
6/13/24 7:42	4.07	9.96	12.53	
6/13/24 7:43	4.25	9.91	8.00	
6/13/24 7:44	0.73	0.50	0.06	
6/13/24 7:45	0.05	0.11	0.00	
6/13/24 7:46	0.04	0.10	0.00	
6/13/24 7:47	0.04	0.09	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 7:48	0.04	0.09	0.00	
6/13/24 7:49	0.04	0.09	0.00	
6/13/24 7:50	0.04	0.08	0.00	
6/13/24 7:51	0.04	0.08	0.00	
6/13/24 7:52	0.04	0.08	0.01	
6/13/24 7:53	0.04	0.08	0.00	
6/13/24 7:54	0.04	0.08	0.00	
6/13/24 7:55	1.01	2.64	0.00	
6/13/24 7:56	3.97	9.56	0.00	
6/13/24 7:57	8.77	9.88	0.00	
6/13/24 7:58	10.99	11.06	0.00	
6/13/24 7:59	11.00	11.07	0.00	
6/13/24 8:00	10.96	11.07	0.00	
6/13/24 8:01	10.95	11.07	0.00	
6/13/24 8:02	10.96	11.07	0.00	
6/13/24 8:03	11.00	11.08	0.00	
6/13/24 8:04	4.46	9.98	0.00	
6/13/24 8:05	4.10	9.92	0.00	
6/13/24 8:06	4.13	9.90	0.00	
6/13/24 8:07	4.14	9.89	0.00	
6/13/24 8:08	4.10	9.91	0.00	
6/13/24 8:09	4.13	9.89	0.00	
6/13/24 8:10	4.13	9.89	0.00	
6/13/24 8:11	4.08	9.92	0.00	
6/13/24 8:12	4.09	9.91	0.00	
6/13/24 8:13	4.10	9.90	0.00	
6/13/24 8:14	4.11	9.90	0.00	
6/13/24 8:15	4.11	9.90	0.00	
6/13/24 8:16	4.11	9.90	0.00	
6/13/24 8:17	4.09	9.90	0.00	
6/13/24 8:18	4.10	9.90	0.00	
6/13/24 8:19	4.11	9.89	0.00	
6/13/24 8:20	4.11	9.89	0.00	
6/13/24 8:21	4.08	9.91	0.00	
6/13/24 8:22	4.11	9.88	0.00	
6/13/24 8:23	4.12	9.88	0.00	
6/13/24 8:24	4.11	9.88	0.00	
6/13/24 8:25	4.11	9.88	0.00	
6/13/24 8:26	4.12	9.88	0.00	
6/13/24 8:27	4.11	9.88	0.00	
6/13/24 8:28	4.11	9.88	0.00	
6/13/24 8:29	4.13	9.87	0.00	
6/13/24 8:30	4.12	9.88	0.00	
6/13/24 8:31	4.12	9.88	0.00	
6/13/24 8:32	4.08	9.90	0.00	
6/13/24 8:33	4.11	9.88	0.00	
6/13/24 8:34	4.15	9.86	0.01	
6/13/24 8:35	4.12	9.87	0.01	
6/13/24 8:36	4.14	9.86	0.00	
6/13/24 8:37	4.13	9.87	0.00	
6/13/24 8:38	4.14	9.86	0.00	
6/13/24 8:39	4.09	9.89	0.00	
6/13/24 8:40	4.12	9.87	0.01	
6/13/24 8:41	4.14	9.86	0.01	
6/13/24 8:42	4.13	9.86	0.01	
6/13/24 8:43	4.11	9.88	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 8:44	4.13	9.87	0.01	
6/13/24 8:45	4.10	9.88	0.01	
6/13/24 8:46	4.09	9.89	0.01	
6/13/24 8:47	4.12	9.88	0.01	
6/13/24 8:48	4.09	9.89	0.01	
6/13/24 8:49	4.13	9.87	0.01	
6/13/24 8:50	4.11	9.88	0.03	
6/13/24 8:51	4.10	9.88	0.01	
6/13/24 8:52	4.14	9.86	0.02	
6/13/24 8:53	4.14	9.86	0.01	
6/13/24 8:54	4.12	9.87	0.01	
6/13/24 8:55	4.11	9.87	0.01	
6/13/24 8:56	4.11	9.87	0.01	
6/13/24 8:57	4.09	9.88	0.01	
6/13/24 8:58	4.13	9.86	0.01	
6/13/24 8:59	4.11	9.87	0.01	
6/13/24 9:00	4.08	9.89	0.01	
6/13/24 9:01	4.11	9.87	0.02	
6/13/24 9:02	4.10	9.87	0.04	
6/13/24 9:03	4.11	9.87	0.03	
6/13/24 9:04	4.08	9.89	0.02	
6/13/24 9:05	4.12	9.87	0.03	
6/13/24 9:06	4.11	9.87	0.01	
6/13/24 9:07	4.08	9.89	0.01	
6/13/24 9:08	4.09	9.88	0.05	
6/13/24 9:09	4.09	9.87	0.04	
6/13/24 9:10	4.09	9.87	0.55	
6/13/24 9:11	4.09	9.88	0.13	
6/13/24 9:12	4.10	9.87	0.16	
6/13/24 9:13	4.08	9.88	0.16	
6/13/24 9:14	4.06	9.89	10.62	
6/13/24 9:15	4.07	9.89	12.48	
6/13/24 9:16	4.09	9.87	12.49	
6/13/24 9:17	4.12	9.85	6.21	
6/13/24 9:18	4.10	9.86	0.02	
6/13/24 9:19	4.09	9.87	0.00	
6/13/24 9:20	4.08	9.87	0.00	
6/13/24 9:21	4.10	9.86	0.00	
6/13/24 9:22	4.10	9.86	0.00	
6/13/24 9:23	4.08	9.87	0.00	
6/13/24 9:24	4.09	9.86	0.00	
6/13/24 9:25	4.13	9.84	0.00	
6/13/24 9:26	4.15	9.83	0.00	
6/13/24 9:27	4.13	9.85	0.00	
6/13/24 9:28	4.09	9.87	0.00	
6/13/24 9:29	4.09	9.87	0.00	
6/13/24 9:30	4.09	9.87	0.00	
6/13/24 9:31	4.08	9.87	0.00	
6/13/24 9:32	4.10	9.85	0.01	
6/13/24 9:33	4.12	9.85	0.01	
6/13/24 9:34	4.09	9.86	0.01	
6/13/24 9:35	4.09	9.86	0.01	
6/13/24 9:36	4.10	9.86	0.00	
6/13/24 9:37	4.08	9.87	0.00	
6/13/24 9:38	4.06	9.88	0.00	
6/13/24 9:39	4.10	9.86	0.03	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 9:40	4.06	9.88	0.05	
6/13/24 9:41	4.04	9.88	0.02	
6/13/24 9:42	4.06	9.87	0.02	
6/13/24 9:43	4.05	9.88	0.03	
6/13/24 9:44	4.08	9.87	0.04	
6/13/24 9:45	4.07	9.87	0.00	
6/13/24 9:46	4.08	9.87	0.00	
6/13/24 9:47	4.04	9.89	0.00	
6/13/24 9:48	4.09	9.85	0.00	
6/13/24 9:49	4.10	9.85	0.00	
6/13/24 9:50	4.03	9.88	0.00	
6/13/24 9:51	4.02	9.89	0.00	
6/13/24 9:52	4.04	9.87	0.00	
6/13/24 9:53	4.08	9.85	0.00	
6/13/24 9:54	4.03	9.88	0.00	
6/13/24 9:55	4.04	9.88	0.00	
6/13/24 9:56	4.06	9.86	0.00	
6/13/24 9:57	4.10	9.84	0.00	
6/13/24 9:58	4.01	9.89	0.00	
6/13/24 9:59	4.04	9.88	0.00	
6/13/24 10:00	4.08	9.86	0.00	
6/13/24 10:01	4.07	9.86	0.00	
6/13/24 10:02	4.07	9.85	0.01	
6/13/24 10:03	4.09	9.84	0.00	
6/13/24 10:04	4.04	9.87	0.01	
6/13/24 10:05	4.04	9.87	0.03	
6/13/24 10:06	4.09	9.84	0.02	
6/13/24 10:07	4.07	9.85	0.03	
6/13/24 10:08	4.03	9.87	0.01	
6/13/24 10:09	4.08	9.84	0.00	
6/13/24 10:10	4.07	9.85	0.00	
6/13/24 10:11	4.08	9.85	0.00	
6/13/24 10:12	4.05	9.86	0.01	
6/13/24 10:13	4.06	9.86	0.01	
6/13/24 10:14	3.99	9.91	0.00	
6/13/24 10:15	4.02	9.89	0.00	
6/13/24 10:16	4.03	9.88	0.02	
6/13/24 10:17	4.07	9.85	0.07	
6/13/24 10:18	4.03	9.88	0.07	
6/13/24 10:19	4.03	9.88	0.07	
6/13/24 10:20	4.04	9.87	0.07	
6/13/24 10:21	4.07	9.85	0.06	
6/13/24 10:22	4.05	9.86	8.34	
6/13/24 10:23	4.00	9.90	12.18	
6/13/24 10:24	3.99	9.89	12.35	
6/13/24 10:25	4.04	9.85	12.40	
6/13/24 10:26	4.00	9.89	11.49	
6/13/24 10:27	3.99	9.89	0.16	
6/13/24 10:28	4.01	9.88	0.05	
6/13/24 10:29	4.03	9.87	0.05	
6/13/24 10:30	3.99	9.89	0.07	
6/13/24 10:31	4.01	9.88	0.08	
6/13/24 10:32	4.05	9.86	0.05	
6/13/24 10:33	4.03	9.87	0.09	
6/13/24 10:34	4.04	9.87	0.08	
6/13/24 10:35	4.04	9.86	0.07	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 10:36	4.02	9.88	0.07	
6/13/24 10:37	4.06	9.85	0.08	
6/13/24 10:38	4.00	9.89	0.08	
6/13/24 10:39	4.05	9.85	0.09	
6/13/24 10:40	4.00	9.88	0.09	
6/13/24 10:41	3.99	9.89	0.09	
6/13/24 10:42	4.05	9.85	0.05	
6/13/24 10:43	4.02	9.87	0.07	
6/13/24 10:44	4.07	9.85	0.06	
6/13/24 10:45	3.96	9.91	0.06	
6/13/24 10:46	4.02	9.87	0.00	
6/13/24 10:47	4.02	9.87	0.00	
6/13/24 10:48	3.99	9.88	0.00	
6/13/24 10:49	3.96	9.90	0.00	
6/13/24 10:50	3.99	9.88	0.02	
6/13/24 10:51	4.00	9.88	0.05	
6/13/24 10:52	4.01	9.87	0.04	
6/13/24 10:53	4.00	9.89	0.05	
6/13/24 10:54	4.03	9.89	0.07	
6/13/24 10:55	4.04	9.84	0.08	
6/13/24 10:56	3.96	9.89	0.07	
6/13/24 10:57	3.99	9.87	0.08	
6/13/24 10:58	4.01	9.86	0.07	
6/13/24 10:59	4.01	9.86	0.08	
6/13/24 11:00	4.00	9.86	0.09	
6/13/24 11:01	3.95	9.98	0.10	
6/13/24 11:02	3.97	9.88	0.10	
6/13/24 11:03	4.01	9.86	0.10	
6/13/24 11:04	4.00	9.87	0.10	
6/13/24 11:05	3.95	9.89	0.10	
6/13/24 11:06	4.02	9.86	0.07	
6/13/24 11:07	3.98	9.88	0.09	
6/13/24 11:08	4.00	9.86	0.10	
6/13/24 11:09	3.99	9.87	0.10	
6/13/24 11:10	4.02	9.85	0.09	
6/13/24 11:11	4.02	9.85	0.12	
6/13/24 11:12	3.98	9.87	0.13	
6/13/24 11:13	4.05	9.83	0.13	
6/13/24 11:14	3.97	9.87	0.12	
6/13/24 11:15	3.98	9.86	0.12	
6/13/24 11:16	4.00	9.85	0.09	
6/13/24 11:17	3.94	9.88	0.07	
6/13/24 11:18	4.05	9.82	0.05	
6/13/24 11:19	4.07	9.81	0.04	
6/13/24 11:20	4.05	9.82	0.04	
6/13/24 11:21	4.00	9.84	0.04	
6/13/24 11:22	3.98	9.85	0.04	
6/13/24 11:23	3.98	9.86	0.04	
6/13/24 11:24	3.98	9.85	0.04	
6/13/24 11:25	4.02	9.83	0.04	
6/13/24 11:26	4.04	9.82	0.05	
6/13/24 11:27	4.00	9.84	0.07	
6/13/24 11:28	3.97	9.85	0.03	
6/13/24 11:29	3.95	9.86	0.02	
6/13/24 11:30	3.99	9.84	0.02	
6/13/24 11:31	4.01	9.83	0.05	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 11:32	3.95	9.86	0.07	
6/13/24 11:33	4.02	9.82	0.20	
6/13/24 11:34	4.06	9.80	0.12	
6/13/24 11:35	4.02	9.82	0.14	
6/13/24 11:36	4.02	9.81	4.06	
6/13/24 11:37	4.04	9.80	12.29	
6/13/24 11:38	3.94	9.87	12.52	
6/13/24 11:39	4.01	9.82	12.54	
6/13/24 11:40	3.94	9.85	6.07	
6/13/24 11:41	3.96	9.84	0.06	
6/13/24 11:42	4.02	9.81	0.03	
6/13/24 11:43	4.02	9.81	0.01	
6/13/24 11:44	4.05	9.79	0.01	
6/13/24 11:45	4.01	9.81	0.00	
6/13/24 11:46	3.96	9.84	0.01	
6/13/24 11:47	3.99	9.82	0.01	
6/13/24 11:48	3.97	9.83	0.01	
6/13/24 11:49	4.02	9.80	0.01	
6/13/24 11:50	4.01	9.81	0.01	
6/13/24 11:51	4.00	9.82	0.01	
6/13/24 11:52	3.99	9.82	0.02	
6/13/24 11:53	4.02	9.80	0.01	
6/13/24 11:54	3.99	9.82	0.00	
6/13/24 11:55	4.00	9.81	0.00	
6/13/24 11:56	3.97	9.83	0.00	
6/13/24 11:57	4.00	9.81	0.00	
6/13/24 11:58	4.02	9.80	0.00	
6/13/24 11:59	4.00	9.81	0.00	
6/13/24 12:00	4.04	9.80	0.00	
6/13/24 12:01	3.98	9.83	0.00	
6/13/24 12:02	3.97	9.83	0.00	
6/13/24 12:03	4.07	9.78	0.00	
6/13/24 12:04	3.99	9.82	0.00	
6/13/24 12:05	3.99	9.82	0.00	
6/13/24 12:06	4.00	9.82	0.00	
6/13/24 12:07	3.98	9.83	0.00	
6/13/24 12:08	3.98	9.83	0.00	
6/13/24 12:09	4.04	9.79	0.01	
6/13/24 12:10	4.03	9.79	0.01	
6/13/24 12:11	4.03	9.79	0.01	
6/13/24 12:12	3.97	9.83	0.01	
6/13/24 12:13	3.99	9.81	0.01	
6/13/24 12:14	4.00	9.81	0.01	
6/13/24 12:15	4.00	9.81	0.09	
6/13/24 12:16	3.97	9.83	10.12	
6/13/24 12:17	3.89	9.87	12.41	
6/13/24 12:18	3.97	9.82	12.44	
6/13/24 12:19	3.96	9.83	12.47	
6/13/24 12:20	4.01	9.80	5.60	
6/13/24 12:21	4.04	9.79	0.09	
6/13/24 12:22	4.01	9.80	0.07	
6/13/24 12:23	3.98	9.81	0.02	
6/13/24 12:24	4.04	9.77	0.04	
6/13/24 12:25	4.00	9.79	0.03	
6/13/24 12:26	3.92	9.85	0.01	
6/13/24 12:27	3.96	9.82	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 12:28	3.98	9.81	0.01	
6/13/24 12:29	3.92	9.84	0.01	
6/13/24 12:30	3.98	9.80	0.00	
6/13/24 12:31	3.98	9.81	0.00	
6/13/24 12:32	3.95	9.82	0.00	
6/13/24 12:33	4.02	9.78	0.00	
6/13/24 12:34	4.02	9.78	25.46	
6/13/24 12:35	3.95	9.81	65.62	
6/13/24 12:36	3.99	9.80	65.61	
6/13/24 12:37	3.95	9.81	65.59	
6/13/24 12:38	3.96	9.81	65.58	
6/13/24 12:39	4.00	9.79	65.56	
6/13/24 12:40	4.28	9.81	16.80	
6/13/24 12:41	2.24	4.71	0.06	
6/13/24 12:42	1.82	4.47	0.02	
6/13/24 12:43	1.27	3.07	0.02	
6/13/24 12:44	0.08	0.11	0.02	
6/13/24 12:45	0.08	0.10	0.03	
6/13/24 12:46	0.08	0.09	0.01	
6/13/24 12:47	0.28	0.61	0.04	
6/13/24 12:48	10.22	9.93	0.06	
6/13/24 12:49	11.08	10.80	0.07	
6/13/24 12:50	11.09	10.82	0.07	
6/13/24 12:51	8.64	10.47	0.11	
6/13/24 12:52	4.04	9.78	0.11	
6/13/24 12:53	4.02	9.78	0.09	
6/13/24 12:54	4.02	9.78	0.09	
6/13/24 12:55	3.97	9.81	0.09	
6/13/24 12:56	3.93	9.83	0.03	
6/13/24 12:57	4.00	9.78	0.02	
6/13/24 12:58	3.99	9.79	0.01	
6/13/24 12:59	3.98	9.80	0.02	
6/13/24 13:00	4.01	9.78	0.01	
6/13/24 13:01	4.06	9.74	0.00	
6/13/24 13:02	3.91	9.83	0.00	
6/13/24 13:03	3.96	9.80	0.01	
6/13/24 13:04	3.94	9.81	0.04	
6/13/24 13:05	3.98	9.80	0.04	
6/13/24 13:06	3.95	9.81	0.04	
6/13/24 13:07	3.95	9.81	0.04	
6/13/24 13:08	3.97	9.80	0.04	
6/13/24 13:09	4.00	9.78	0.04	
6/13/24 13:10	4.00	9.78	0.04	
6/13/24 13:11	3.98	9.79	0.04	
6/13/24 13:12	4.01	9.77	0.05	
6/13/24 13:13	3.97	9.79	0.05	
6/13/24 13:14	4.02	9.76	0.02	
6/13/24 13:15	3.95	9.80	0.00	
6/13/24 13:16	3.97	9.79	0.00	
6/13/24 13:17	4.03	9.76	0.00	
6/13/24 13:18	4.00	9.77	0.00	
6/13/24 13:19	3.98	9.79	0.00	
6/13/24 13:20	3.98	9.79	0.00	
6/13/24 13:21	3.96	9.80	0.00	
6/13/24 13:22	4.02	9.76	0.00	
6/13/24 13:23	4.00	9.77	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 13:24	3.97	9.79	0.01	
6/13/24 13:25	4.02	9.76	0.01	
6/13/24 13:26	4.03	9.75	0.05	
6/13/24 13:27	4.00	9.77	0.05	
6/13/24 13:28	3.98	9.78	0.06	
6/13/24 13:29	3.99	9.77	0.06	
6/13/24 13:30	3.99	9.77	0.02	
6/13/24 13:31	3.96	9.79	0.02	
6/13/24 13:32	4.00	9.76	0.05	
6/13/24 13:33	3.94	9.80	0.01	
6/13/24 13:34	3.96	9.79	0.01	
6/13/24 13:35	4.00	9.76	0.01	
6/13/24 13:36	4.02	9.75	0.04	
6/13/24 13:37	3.97	9.77	0.06	
6/13/24 13:38	3.99	9.76	0.07	
6/13/24 13:39	3.99	9.76	0.04	
6/13/24 13:40	3.96	9.78	0.06	
6/13/24 13:41	3.96	9.78	0.07	
6/13/24 13:42	3.97	9.77	0.07	
6/13/24 13:43	3.98	9.76	0.07	
6/13/24 13:44	4.00	9.76	0.06	
6/13/24 13:45	4.01	9.75	0.06	
6/13/24 13:46	4.01	9.75	0.07	
6/13/24 13:47	3.98	9.77	0.09	
6/13/24 13:48	4.00	9.75	0.08	
6/13/24 13:49	4.00	9.75	0.07	
6/13/24 13:50	3.94	9.79	0.08	
6/13/24 13:51	3.98	9.77	0.07	
6/13/24 13:52	4.00	9.76	0.08	
6/13/24 13:53	3.97	9.78	0.09	
6/13/24 13:54	3.99	9.76	0.10	
6/13/24 13:55	3.95	9.78	0.09	
6/13/24 13:56	3.99	9.75	0.10	
6/13/24 13:57	3.97	9.77	0.09	
6/13/24 13:58	3.99	9.76	0.09	
6/13/24 13:59	3.97	9.77	0.09	
6/13/24 14:00	4.03	9.74	0.08	
6/13/24 14:01	3.99	9.76	0.08	
6/13/24 14:02	3.95	9.78	0.11	
6/13/24 14:03	3.96	9.78	0.13	
6/13/24 14:04	3.98	9.77	0.13	
6/13/24 14:05	3.99	9.76	0.13	
6/13/24 14:06	4.00	9.74	0.13	
6/13/24 14:07	3.98	9.76	0.11	
6/13/24 14:08	3.99	9.75	0.10	
6/13/24 14:09	3.97	9.76	0.10	
6/13/24 14:10	3.93	9.78	0.10	
6/13/24 14:11	3.98	9.76	0.10	
6/13/24 14:12	3.97	9.77	0.10	
6/13/24 14:13	4.01	9.74	0.10	
6/13/24 14:14	3.98	9.76	0.10	
6/13/24 14:15	3.98	9.75	0.10	
6/13/24 14:16	4.01	9.74	0.10	
6/13/24 14:17	3.98	9.75	0.10	
6/13/24 14:18	3.96	9.76	0.10	
6/13/24 14:19	3.99	9.75	0.10	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 14:20	3.97	9.76	0.10	
6/13/24 14:21	3.97	9.75	0.10	
6/13/24 14:22	4.45	9.74	0.21	
6/13/24 14:23	4.00	9.74	0.21	
6/13/24 14:24	3.97	9.76	0.26	
6/13/24 14:25	3.98	9.75	0.28	
6/13/24 14:26	3.94	9.77	0.28	
6/13/24 14:27	4.01	9.73	4.58	
6/13/24 14:28	3.97	9.75	12.35	
6/13/24 14:29	4.04	9.71	12.41	
6/13/24 14:30	4.02	9.72	8.09	
6/13/24 14:31	3.97	9.75	0.11	
6/13/24 14:32	4.00	9.74	0.08	
6/13/24 14:33	3.96	9.76	0.03	
6/13/24 14:34	3.98	9.75	0.04	
6/13/24 14:35	4.04	9.71	0.08	
6/13/24 14:36	3.98	9.75	0.05	
6/13/24 14:37	3.95	9.76	0.03	
6/13/24 14:38	3.99	9.73	0.02	
6/13/24 14:39	4.02	9.72	0.04	
6/13/24 14:40	4.02	9.71	0.03	
6/13/24 14:41	4.03	9.70	0.03	
6/13/24 14:42	4.02	9.72	0.02	
6/13/24 14:43	3.97	9.75	0.01	
6/13/24 14:44	4.00	9.73	0.00	
6/13/24 14:45	3.99	9.74	0.01	
6/13/24 14:46	4.02	9.72	0.00	
6/13/24 14:47	4.01	9.72	0.00	
6/13/24 14:48	3.98	9.74	0.00	
6/13/24 14:49	4.01	9.73	0.00	
6/13/24 14:50	3.96	9.75	0.00	
6/13/24 14:51	4.04	9.71	0.01	
6/13/24 14:52	4.03	9.71	0.01	
6/13/24 14:53	3.94	9.76	0.02	
6/13/24 14:54	3.96	9.74	0.05	
6/13/24 14:55	3.95	9.75	0.04	
6/13/24 14:56	4.02	9.71	0.02	
6/13/24 14:57	3.97	9.74	0.02	
6/13/24 14:58	4.00	9.72	0.05	
6/13/24 14:59	3.98	9.73	0.01	
6/13/24 15:00	3.99	9.73	0.00	
6/13/24 15:01	3.99	9.73	0.02	
6/13/24 15:02	4.01	9.71	0.07	
6/13/24 15:03	3.96	9.74	0.09	
6/13/24 15:04	3.95	9.74	0.08	
6/13/24 15:05	4.03	9.70	0.05	
6/13/24 15:06	3.97	9.74	0.03	
6/13/24 15:07	3.94	9.75	0.08	
6/13/24 15:08	3.99	9.72	0.08	
6/13/24 15:09	4.03	9.70	0.06	
6/13/24 15:10	4.01	9.71	0.01	
6/13/24 15:11	4.01	9.71	0.01	
6/13/24 15:12	4.00	9.72	0.07	
6/13/24 15:13	3.95	9.75	0.08	
6/13/24 15:14	3.97	9.74	0.08	
6/13/24 15:15	3.98	9.73	0.07	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 15:16	4.03	9.70	0.08	
6/13/24 15:17	4.05	9.82	0.10	
6/13/24 15:18	4.04	9.92	0.10	
6/13/24 15:19	4.00	9.72	0.08	
6/13/24 15:20	4.00	9.72	0.03	
6/13/24 15:21	4.01	9.71	0.02	
6/13/24 15:22	4.00	9.72	0.08	
6/13/24 15:23	3.96	9.74	0.08	
6/13/24 15:24	3.97	9.73	0.05	
6/13/24 15:25	3.96	9.73	0.03	
6/13/24 15:26	3.99	9.71	0.00	
6/13/24 15:27	3.98	9.72	0.00	
6/13/24 15:28	3.99	9.71	0.00	
6/13/24 15:29	4.01	9.71	0.00	
6/13/24 15:30	3.99	9.72	0.00	
6/13/24 15:31	3.96	9.73	0.00	
6/13/24 15:32	3.98	9.72	2.60	
6/13/24 15:33	3.98	9.73	12.13	
6/13/24 15:34	3.93	9.76	12.25	
6/13/24 15:35	4.02	9.71	12.29	
6/13/24 15:36	4.05	9.69	12.33	
6/13/24 15:37	3.98	9.72	8.39	
6/13/24 15:38	4.00	9.71	0.24	
6/13/24 15:39	4.01	9.70	0.03	
6/13/24 15:40	4.00	9.71	0.01	
6/13/24 15:41	3.93	9.75	0.06	
6/13/24 15:42	3.99	9.71	0.06	
6/13/24 15:43	3.97	9.72	0.08	
6/13/24 15:44	3.98	9.72	0.07	
6/13/24 15:45	3.96	9.73	0.03	
6/13/24 15:46	4.04	9.68	0.08	
6/13/24 15:47	3.96	9.72	0.08	
6/13/24 15:48	3.94	9.74	0.03	
6/13/24 15:49	3.99	9.71	0.01	
6/13/24 15:50	3.98	9.72	0.01	
6/13/24 15:51	3.97	9.72	0.00	
6/13/24 15:52	4.03	9.69	0.00	
6/13/24 15:53	3.94	9.74	0.00	
6/13/24 15:54	4.01	9.70	0.00	
6/13/24 15:55	3.95	9.74	0.00	
6/13/24 15:56	3.99	9.71	0.01	
6/13/24 15:57	3.99	9.72	0.02	
6/13/24 15:58	3.97	9.73	0.01	
6/13/24 15:59	3.99	9.71	0.00	
6/13/24 16:00	4.03	9.69	0.00	
6/13/24 16:01	3.96	9.73	0.00	
6/13/24 16:02	3.98	9.72	0.08	
6/13/24 16:03	3.99	9.71	0.07	
6/13/24 16:04	3.99	9.72	0.03	
6/13/24 16:05	3.98	9.72	0.03	
6/13/24 16:06	3.99	9.72	0.07	
6/13/24 16:07	3.98	9.73	0.05	
6/13/24 16:08	4.03	9.69	0.00	
6/13/24 16:09	3.99	9.72	0.01	
6/13/24 16:10	3.97	9.73	0.00	
6/13/24 16:11	4.02	9.71	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 16:12	4.03	9.72	0.01	
6/13/24 16:13	4.00	9.74	0.00	
6/13/24 16:14	3.96	9.77	0.00	
6/13/24 16:15	3.97	9.77	0.00	
6/13/24 16:16	3.98	9.77	0.00	
6/13/24 16:17	3.99	9.77	0.00	
6/13/24 16:18	4.00	9.78	0.00	
6/13/24 16:19	3.99	9.82	0.00	
6/13/24 16:20	3.99	9.82	0.02	
6/13/24 16:21	3.98	9.86	0.03	
6/13/24 16:22	4.00	9.96	0.06	
6/13/24 16:23	3.99	10.57	0.06	
6/13/24 16:24	3.97	9.86	0.07	
6/13/24 16:25	3.99	9.86	0.08	
6/13/24 16:26	4.01	9.87	0.08	
6/13/24 16:27	3.98	9.91	0.07	
6/13/24 16:28	4.01	9.90	0.05	
6/13/24 16:29	3.99	9.92	0.05	
6/13/24 16:30	3.95	9.94	0.05	
6/13/24 16:31	3.98	9.94	0.00	
6/13/24 16:32	4.01	9.94	0.00	
6/13/24 16:33	3.99	9.96	0.00	
6/13/24 16:34	3.93	10.00	0.01	
6/13/24 16:35	3.96	10.00	0.02	
6/13/24 16:36	3.98	10.02	0.04	
6/13/24 16:37	3.98	10.03	0.04	
6/13/24 16:38	3.99	10.02	0.01	
6/13/24 16:39	3.98	10.06	0.01	
6/13/24 16:40	3.92	10.11	0.01	
6/13/24 16:41	3.92	10.16	0.03	
6/13/24 16:42	3.94	10.24	0.04	
6/13/24 16:43	3.99	10.35	0.04	
6/13/24 16:44	3.98	10.20	0.39	
6/13/24 16:45	4.00	10.15	0.16	
6/13/24 16:46	3.95	10.14	0.09	
6/13/24 16:47	3.98	10.11	0.12	
6/13/24 16:48	3.95	10.13	0.13	
6/13/24 16:49	3.96	10.12	6.66	
6/13/24 16:50	3.98	10.11	12.00	
6/13/24 16:51	3.97	10.11	12.31	
6/13/24 16:52	3.95	10.13	12.36	
6/13/24 16:53	3.98	10.12	12.39	
6/13/24 16:54	3.96	10.14	1.91	
6/13/24 16:55	3.95	10.15	0.12	
6/13/24 16:56	3.99	10.13	0.13	
6/13/24 16:57	3.92	10.18	0.10	
6/13/24 16:58	3.98	10.16	0.09	
6/13/24 16:59	3.90	10.21	0.09	
6/13/24 17:00	3.96	10.19	0.09	
6/13/24 17:01	3.97	10.19	0.07	
6/13/24 17:02	3.95	10.21	0.02	
6/13/24 17:03	3.94	10.22	0.01	
6/13/24 17:04	3.97	10.22	0.01	
6/13/24 17:05	3.95	10.24	0.00	
6/13/24 17:06	3.94	10.26	0.00	
6/13/24 17:07	3.96	10.25	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 17:08	3.95	10.26	0.00	
6/13/24 17:09	3.97	10.25	0.00	
6/13/24 17:10	3.94	10.28	0.00	
6/13/24 17:11	3.92	10.28	0.00	
6/13/24 17:12	3.97	10.25	0.00	
6/13/24 17:13	3.95	10.26	0.00	
6/13/24 17:14	3.96	10.28	0.00	
6/13/24 17:15	3.92	10.29	0.00	
6/13/24 17:16	3.96	10.27	0.00	
6/13/24 17:17	3.95	10.28	0.00	
6/13/24 17:18	3.92	10.31	0.00	
6/13/24 17:19	3.97	10.29	0.00	
6/13/24 17:20	3.98	10.29	0.00	
6/13/24 17:21	3.94	10.32	0.00	
6/13/24 17:22	3.96	10.32	0.00	
6/13/24 17:23	3.94	10.34	0.01	
6/13/24 17:24	3.98	10.34	0.01	
6/13/24 17:25	3.93	10.41	0.01	
6/13/24 17:26	3.94	10.37	0.00	
6/13/24 17:27	3.98	10.33	0.00	
6/13/24 17:28	3.97	10.33	0.00	
6/13/24 17:29	3.92	10.38	0.00	
6/13/24 17:30	3.99	10.35	0.42	
6/13/24 17:31	3.96	10.40	11.73	
6/13/24 17:32	3.92	10.40	12.47	
6/13/24 17:33	3.91	10.41	12.52	
6/13/24 17:34	3.97	10.33	12.51	
6/13/24 17:35	3.95	10.33	12.53	
6/13/24 17:36	3.96	10.33	12.55	
6/13/24 17:37	3.97	10.32	1.29	
6/13/24 17:38	3.98	10.31	0.22	
6/13/24 17:39	3.97	10.31	0.22	
6/13/24 17:40	3.97	10.31	0.15	
6/13/24 17:41	3.96	10.31	0.09	
6/13/24 17:42	4.04	10.29	0.07	
6/13/24 17:43	3.95	10.37	0.07	
6/13/24 17:44	3.96	10.38	0.07	
6/13/24 17:45	4.00	10.40	0.07	
6/13/24 17:46	4.03	10.26	0.07	
6/13/24 17:47	4.10	10.11	0.07	
6/13/24 17:48	4.02	10.16	0.07	
6/13/24 17:49	4.08	10.13	0.07	
6/13/24 17:50	4.02	10.19	0.07	
6/13/24 17:51	4.01	10.21	0.06	
6/13/24 17:52	4.08	10.18	0.04	
6/13/24 17:53	4.03	10.21	0.04	
6/13/24 17:54	3.99	10.24	0.04	
6/13/24 17:55	4.03	10.25	38.68	
6/13/24 17:56	4.15	10.22	64.74	
6/13/24 17:57	4.05	10.33	64.75	
6/13/24 17:58	4.04	10.37	64.72	
6/13/24 17:59	4.01	10.42	64.72	
6/13/24 18:00	4.07	10.27	64.72	
6/13/24 18:01	4.00	10.34	45.96	
6/13/24 18:02	4.04	10.35	0.01	
6/13/24 18:03	4.02	10.41	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/13/24 18:04	3.81	9.28	0.08	
6/13/24 18:05	0.14	0.89	0.08	
6/13/24 18:06	0.12	0.29	0.13	
6/13/24 18:07	0.12	0.00	0.41	
6/13/24 18:08	0.12	0.00	0.92	
6/13/24 18:09	0.84	1.05	1.40	
6/13/24 18:10	11.04	10.72	1.78	
6/13/24 18:11	11.10	10.80	1.34	
6/13/24 18:12	11.11	10.82	1.34	
6/13/24 18:13	11.12	10.83	1.47	
6/13/24 18:14	8.85	10.27	1.77	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 7:19	11.43	0.03	0.00	
6/14/24 7:20	0.03	0.00	0.00	
6/14/24 7:21	0.01	0.00	0.00	
6/14/24 7:22	19.67	19.66	9.28	
6/14/24 7:23	22.93	22.76	0.12	
6/14/24 7:24	15.30	15.32	0.00	
6/14/24 7:25	10.33	11.01	0.00	
6/14/24 7:26	4.02	9.87	0.00	
6/14/24 7:27	4.04	9.87	0.00	
6/14/24 7:28	4.05	9.88	0.00	
6/14/24 7:29	4.08	9.87	0.00	
6/14/24 7:30	4.05	9.89	0.00	
6/14/24 7:31	4.04	9.90	0.00	
6/14/24 7:32	4.10	9.88	0.00	
6/14/24 7:33	4.05	9.91	0.00	
6/14/24 7:34	4.06	9.91	0.00	
6/14/24 7:35	4.06	9.92	0.00	
6/14/24 7:36	4.04	9.93	0.00	
6/14/24 7:37	4.05	9.93	0.00	
6/14/24 7:38	4.05	9.94	0.00	
6/14/24 7:39	4.06	9.94	0.00	
6/14/24 7:40	4.03	9.96	0.00	
6/14/24 7:41	4.04	9.97	39.79	
6/14/24 7:42	4.03	9.98	48.45	
6/14/24 7:43	4.00	10.00	48.48	
6/14/24 7:44	4.04	9.98	48.48	
6/14/24 7:45	4.05	9.97	22.83	
6/14/24 7:46	4.02	10.00	0.18	
6/14/24 7:47	3.99	10.03	0.05	
6/14/24 7:48	3.97	10.04	0.04	
6/14/24 7:49	3.99	10.04	2.26	
6/14/24 7:50	3.98	10.05	21.62	
6/14/24 7:51	3.99	10.05	21.48	
6/14/24 7:52	3.98	10.06	21.48	
6/14/24 7:53	4.00	10.05	11.42	
6/14/24 7:54	4.00	10.05	7.37	
6/14/24 7:55	3.99	10.05	7.38	
6/14/24 7:56	4.01	10.04	8.52	
6/14/24 7:57	3.98	10.05	12.48	
6/14/24 7:58	3.97	10.06	12.52	
6/14/24 7:59	3.62	7.26	6.41	
6/14/24 8:00	0.05	0.11	0.05	
6/14/24 8:01	0.04	0.08	0.00	
6/14/24 8:02	3.30	3.94	0.00	
6/14/24 8:03	11.06	11.09	0.00	
6/14/24 8:04	11.09	11.12	0.00	
6/14/24 8:05	8.58	10.72	0.00	
6/14/24 8:06	3.98	10.05	0.00	
6/14/24 8:07	4.01	10.02	0.00	
6/14/24 8:08	3.95	10.06	0.00	
6/14/24 8:09	3.96	10.05	0.00	
6/14/24 8:10	3.98	10.03	0.00	
6/14/24 8:11	3.96	10.05	0.00	
6/14/24 8:12	3.95	10.05	0.00	
6/14/24 8:13	3.95	10.05	0.00	
6/14/24 8:14	3.94	10.05	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 8:15	3.95	10.05	0.00	
6/14/24 8:16	3.96	10.04	0.00	
6/14/24 8:17	3.98	10.03	0.00	
6/14/24 8:18	3.96	10.05	0.00	
6/14/24 8:19	3.96	10.04	0.00	
6/14/24 8:20	3.97	10.04	0.00	
6/14/24 8:21	3.94	10.05	0.00	
6/14/24 8:22	3.98	10.02	0.00	
6/14/24 8:23	3.96	10.03	0.00	
6/14/24 8:24	3.97	10.03	0.00	
6/14/24 8:25	3.93	10.05	0.00	
6/14/24 8:26	3.95	10.03	0.00	
6/14/24 8:27	3.94	10.04	0.00	
6/14/24 8:28	3.97	10.02	0.00	
6/14/24 8:29	3.95	10.04	0.00	
6/14/24 8:30	3.97	10.03	0.00	
6/14/24 8:31	3.97	10.03	0.00	
6/14/24 8:32	3.97	10.02	0.00	
6/14/24 8:33	4.01	9.99	0.00	
6/14/24 8:34	3.95	10.03	0.00	
6/14/24 8:35	3.94	10.03	0.00	
6/14/24 8:36	3.95	10.03	0.00	
6/14/24 8:37	3.97	10.02	0.00	
6/14/24 8:38	3.98	10.01	0.00	
6/14/24 8:39	3.93	10.03	0.00	
6/14/24 8:40	3.92	10.04	0.00	
6/14/24 8:41	3.94	10.03	0.00	
6/14/24 8:42	3.96	10.01	0.00	
6/14/24 8:43	3.94	10.07	0.00	
6/14/24 8:44	3.93	10.11	0.00	
6/14/24 8:45	3.90	10.14	0.00	
6/14/24 8:46	3.91	10.14	0.00	
6/14/24 8:47	3.92	10.14	0.00	
6/14/24 8:48	3.91	10.15	0.00	
6/14/24 8:49	3.95	10.17	0.00	
6/14/24 8:50	3.95	10.21	0.00	
6/14/24 8:51	3.94	10.23	0.00	
6/14/24 8:52	3.92	10.24	0.00	
6/14/24 8:53	3.92	10.27	0.00	
6/14/24 8:54	3.92	10.34	0.00	
6/14/24 8:55	3.95	10.32	0.00	
6/14/24 8:56	3.92	10.35	0.00	
6/14/24 8:57	3.88	10.45	0.00	
6/14/24 8:58	3.92	11.10	0.00	
6/14/24 8:59	3.94	12.94	0.00	
6/14/24 9:00	3.93	13.08	0.00	
6/14/24 9:01	3.90	13.28	0.00	
6/14/24 9:02	3.92	13.29	0.00	
6/14/24 9:03	3.89	13.73	0.00	
6/14/24 9:04	3.91	13.80	0.00	
6/14/24 9:05	3.92	13.67	0.00	
6/14/24 9:06	3.93	13.57	0.00	
6/14/24 9:07	3.94	12.99	0.00	
6/14/24 9:08	3.95	13.63	0.00	
6/14/24 9:09	3.90	13.45	0.00	
6/14/24 9:10	3.93	12.91	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 9:11	3.93	12.76	0.00	
6/14/24 9:12	3.95	13.52	0.00	
6/14/24 9:13	3.94	10.51	0.00	
6/14/24 9:14	3.93	10.03	0.00	
6/14/24 9:15	3.94	10.01	0.00	
6/14/24 9:16	3.93	10.02	0.00	
6/14/24 9:17	3.89	10.04	0.00	
6/14/24 9:18	3.95	10.00	0.00	
6/14/24 9:19	3.91	10.02	0.00	
6/14/24 9:20	3.90	10.02	0.00	
6/14/24 9:21	3.91	10.02	0.00	
6/14/24 9:22	3.91	10.01	0.00	
6/14/24 9:23	3.91	10.02	0.00	
6/14/24 9:24	3.91	10.01	0.00	
6/14/24 9:25	3.91	10.01	0.00	
6/14/24 9:26	3.92	10.01	0.00	
6/14/24 9:27	3.92	10.00	0.00	
6/14/24 9:28	3.91	10.01	0.00	
6/14/24 9:29	3.92	10.00	0.00	
6/14/24 9:30	3.92	9.99	0.00	
6/14/24 9:31	3.90	10.01	0.23	
6/14/24 9:32	3.92	10.01	0.00	
6/14/24 9:33	3.88	9.99	0.00	
6/14/24 9:34	3.88	9.99	0.00	
6/14/24 9:35	3.92	9.99	0.26	
6/14/24 9:36	3.92	9.98	12.02	
6/14/24 9:37	3.89	10.00	12.36	
6/14/24 9:38	3.88	10.01	12.37	
6/14/24 9:39	3.91	10.00	12.40	
6/14/24 9:40	3.91	10.00	4.51	
6/14/24 9:41	3.88	10.01	0.00	
6/14/24 9:42	3.94	9.98	0.00	
6/14/24 9:43	3.89	10.01	0.00	
6/14/24 9:44	3.90	10.00	0.00	
6/14/24 9:45	3.89	10.01	0.00	
6/14/24 9:46	3.92	9.99	0.00	
6/14/24 9:47	3.93	9.98	0.00	
6/14/24 9:48	3.90	9.99	0.00	
6/14/24 9:49	3.89	10.00	0.00	
6/14/24 9:50	3.92	9.98	0.01	
6/14/24 9:51	3.89	10.00	0.00	
6/14/24 9:52	3.91	9.99	0.00	
6/14/24 9:53	3.90	9.99	0.00	
6/14/24 9:54	3.91	9.98	0.00	
6/14/24 9:55	3.90	9.98	0.00	
6/14/24 9:56	3.91	9.98	0.00	
6/14/24 9:57	3.91	9.98	0.00	
6/14/24 9:58	3.93	9.97	0.00	
6/14/24 9:59	3.89	9.99	0.00	
6/14/24 10:00	3.92	9.97	0.00	
6/14/24 10:01	3.93	9.96	0.00	
6/14/24 10:02	3.92	9.97	0.01	
6/14/24 10:03	3.92	9.96	0.02	
6/14/24 10:04	3.93	9.96	0.01	
6/14/24 10:05	3.92	9.96	0.01	
6/14/24 10:06	3.91	9.97	0.01	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 10:07	3.92	9.96	0.01	
6/14/24 10:08	3.92	9.96	0.01	
6/14/24 10:09	3.95	9.94	0.01	
6/14/24 10:10	3.94	9.95	0.01	
6/14/24 10:11	3.91	9.96	0.00	
6/14/24 10:12	3.87	9.99	0.01	
6/14/24 10:13	3.89	9.97	0.01	
6/14/24 10:14	3.87	9.99	0.01	
6/14/24 10:15	3.92	9.96	0.00	
6/14/24 10:16	3.95	9.94	0.01	
6/14/24 10:17	3.89	9.97	0.00	
6/14/24 10:18	3.87	9.98	0.00	
6/14/24 10:19	3.91	9.96	0.00	
6/14/24 10:20	3.87	9.98	0.00	
6/14/24 10:21	3.92	9.95	0.00	
6/14/24 10:22	3.92	9.95	0.00	
6/14/24 10:23	3.93	9.94	0.00	
6/14/24 10:24	3.89	9.97	0.00	
6/14/24 10:25	3.90	9.96	0.00	
6/14/24 10:26	3.91	9.96	0.00	
6/14/24 10:27	3.93	9.94	0.00	
6/14/24 10:28	3.90	9.96	0.00	
6/14/24 10:29	3.91	9.95	0.01	
6/14/24 10:30	3.87	9.97	0.01	
6/14/24 10:31	3.92	9.94	0.01	
6/14/24 10:32	3.92	9.94	0.01	
6/14/24 10:33	3.89	9.96	0.01	
6/14/24 10:34	3.93	9.93	0.01	
6/14/24 10:35	3.90	9.95	0.01	
6/14/24 10:36	3.90	9.95	0.01	
6/14/24 10:37	3.92	9.94	0.01	
6/14/24 10:38	3.93	9.93	0.01	
6/14/24 10:39	3.92	9.94	0.01	
6/14/24 10:40	3.90	9.94	0.01	
6/14/24 10:41	3.91	9.94	0.01	
6/14/24 10:42	3.92	9.93	0.01	
6/14/24 10:43	3.94	9.92	0.01	
6/14/24 10:44	3.92	9.94	6.35	
6/14/24 10:45	3.93	9.93	12.28	
6/14/24 10:46	3.93	9.93	12.30	
6/14/24 10:47	3.93	9.92	12.31	
6/14/24 10:48	3.94	9.91	11.19	
6/14/24 10:49	3.91	9.93	0.09	
6/14/24 10:50	3.89	9.94	0.01	
6/14/24 10:51	3.94	9.91	0.01	
6/14/24 10:52	3.92	9.92	0.01	
6/14/24 10:53	3.91	9.93	0.00	
6/14/24 10:54	3.94	9.91	0.00	
6/14/24 10:55	3.89	9.93	0.00	
6/14/24 10:56	3.90	9.92	0.00	
6/14/24 10:57	3.91	9.92	0.00	
6/14/24 10:58	3.92	9.91	0.00	
6/14/24 10:59	3.91	9.92	0.00	
6/14/24 11:00	3.92	9.91	0.00	
6/14/24 11:01	3.95	9.89	0.01	
6/14/24 11:02	3.91	9.91	0.00	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 11:03	3.94	9.89	0.00	
6/14/24 11:04	3.91	9.91	0.00	
6/14/24 11:05	3.87	9.94	0.00	
6/14/24 11:06	3.93	9.90	0.00	
6/14/24 11:07	3.88	9.93	0.00	
6/14/24 11:08	3.88	9.93	0.00	
6/14/24 11:09	3.97	9.88	0.00	
6/14/24 11:10	3.95	9.89	0.00	
6/14/24 11:11	3.91	9.91	0.00	
6/14/24 11:12	3.90	9.91	0.00	
6/14/24 11:13	3.84	9.95	0.00	
6/14/24 11:14	3.98	9.86	0.00	
6/14/24 11:15	3.89	9.91	0.02	
6/14/24 11:16	3.92	9.90	0.01	
6/14/24 11:17	3.92	9.90	0.01	
6/14/24 11:18	3.95	9.88	0.01	
6/14/24 11:19	3.94	9.89	0.01	
6/14/24 11:20	3.98	9.86	0.01	
6/14/24 11:21	3.92	9.90	0.01	
6/14/24 11:22	3.87	9.92	0.00	
6/14/24 11:23	3.92	9.89	0.00	
6/14/24 11:24	3.94	9.88	0.00	
6/14/24 11:25	3.96	9.87	0.00	
6/14/24 11:26	3.92	9.89	0.00	
6/14/24 11:27	3.99	9.85	0.00	
6/14/24 11:28	3.95	9.88	0.00	
6/14/24 11:29	3.93	9.89	0.00	
6/14/24 11:30	3.93	9.89	0.00	
6/14/24 11:31	3.93	9.88	0.00	
6/14/24 11:32	3.94	9.87	0.00	
6/14/24 11:33	3.99	9.85	0.00	
6/14/24 11:34	3.91	9.89	0.00	
6/14/24 11:35	3.91	9.89	0.00	
6/14/24 11:36	3.99	9.84	0.00	
6/14/24 11:37	3.93	9.88	0.00	
6/14/24 11:38	3.92	9.88	0.00	
6/14/24 11:39	3.94	9.87	0.00	
6/14/24 11:40	3.94	9.87	0.00	
6/14/24 11:41	3.97	9.85	0.00	
6/14/24 11:42	3.96	9.86	0.00	
6/14/24 11:43	3.98	9.85	0.00	
6/14/24 11:44	3.87	9.91	0.00	
6/14/24 11:45	3.91	9.89	0.00	
6/14/24 11:46	3.91	9.88	0.00	
6/14/24 11:47	3.95	9.85	0.00	
6/14/24 11:48	3.95	9.86	0.00	
6/14/24 11:49	3.99	9.83	0.00	
6/14/24 11:50	3.93	9.86	0.00	
6/14/24 11:51	3.99	9.83	0.00	
6/14/24 11:52	3.94	9.86	0.00	
6/14/24 11:53	3.95	9.86	0.04	
6/14/24 11:54	3.92	9.88	0.00	
6/14/24 11:55	3.95	9.85	0.00	
6/14/24 11:56	3.98	9.84	0.00	
6/14/24 11:57	3.99	9.83	0.00	
6/14/24 11:58	4.01	9.82	7.83	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 11:59	3.92	9.87	12.32	
6/14/24 12:00	3.94	9.86	12.32	
6/14/24 12:01	3.93	9.85	12.31	
6/14/24 12:02	4.01	9.81	7.18	
6/14/24 12:03	3.93	9.86	0.00	
6/14/24 12:04	3.95	9.84	0.00	
6/14/24 12:05	3.95	9.84	0.00	
6/14/24 12:06	3.91	9.87	0.00	
6/14/24 12:07	3.92	9.86	0.00	
6/14/24 12:08	3.95	9.84	0.00	
6/14/24 12:09	3.88	9.88	0.00	
6/14/24 12:10	3.92	9.86	0.00	
6/14/24 12:11	3.95	9.84	0.00	
6/14/24 12:12	3.91	9.86	0.00	
6/14/24 12:13	3.95	9.84	0.00	
6/14/24 12:14	3.98	9.82	0.00	
6/14/24 12:15	3.95	9.84	0.00	
6/14/24 12:16	4.00	9.81	0.00	
6/14/24 12:17	3.98	9.82	0.00	
6/14/24 12:18	3.92	9.85	0.00	
6/14/24 12:19	3.93	9.85	0.00	
6/14/24 12:20	3.93	9.85	0.00	
6/14/24 12:21	3.93	9.85	0.00	
6/14/24 12:22	3.93	9.84	0.00	
6/14/24 12:23	3.94	9.83	0.00	
6/14/24 12:24	3.96	9.83	0.00	
6/14/24 12:25	3.92	9.85	0.00	
6/14/24 12:26	3.93	9.84	0.00	
6/14/24 12:27	3.88	9.87	0.00	
6/14/24 12:28	3.91	9.85	4.38	
6/14/24 12:29	3.99	9.81	12.15	
6/14/24 12:30	3.95	9.83	12.23	
6/14/24 12:31	3.96	9.82	12.21	
6/14/24 12:32	3.94	9.83	12.24	
6/14/24 12:33	3.94	9.83	10.67	
6/14/24 12:34	4.00	9.80	0.02	
6/14/24 12:35	3.99	9.81	0.00	
6/14/24 12:36	3.91	9.85	0.00	
6/14/24 12:37	3.92	9.85	0.01	
6/14/24 12:38	3.92	9.86	0.00	
6/14/24 12:39	4.03	9.80	0.00	
6/14/24 12:40	15.09	3.27	0.00	
6/14/24 12:41	20.73	0.13	0.00	
6/14/24 12:42	20.74	0.11	0.00	
6/14/24 12:43	20.74	0.10	0.00	
6/14/24 12:44	20.74	0.10	0.00	
6/14/24 12:45	20.75	0.10	0.00	
6/14/24 12:46	20.75	0.10	0.00	
6/14/24 12:47	20.71	0.12	0.00	
6/14/24 12:48	20.75	0.10	0.00	
6/14/24 12:49	20.75	0.09	0.00	
6/14/24 12:50	20.76	0.09	18.24	
6/14/24 12:51	20.76	0.09	66.04	
6/14/24 12:52	20.76	0.09	66.04	
6/14/24 12:53	20.76	0.09	66.01	
6/14/24 12:54	20.76	0.09	65.99	

BASF - McIntosh, AL
Boiler No. 7 CSV Data

Date / Time	O2	CO2	THC	Notes
6/14/24 12:55	20.76	0.09	65.98	
6/14/24 12:56	20.76	0.10	20.86	
6/14/24 12:57	20.77	0.09	0.00	
6/14/24 12:58	18.17	0.21	0.65	
6/14/24 12:59	0.12	0.05	0.06	
6/14/24 13:00	0.08	0.04	0.01	
6/14/24 13:01	0.07	0.04	0.00	
6/14/24 13:02	0.06	0.04	0.11	
6/14/24 13:03	0.06	0.04	0.06	
6/14/24 13:04	2.37	0.78	0.36	
6/14/24 13:05	11.06	10.73	0.43	
6/14/24 13:06	11.08	10.80	0.08	
6/14/24 13:07	13.62	7.84	0.03	
6/14/24 13:08	20.75	0.13	0.00	
6/14/24 13:09	20.76	0.10	0.00	
6/14/24 13:10	20.77	0.09	0.07	
6/14/24 13:11	20.77	0.09	0.97	

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/10/2024	17:44	191.4	0.985	0.03	0.01	-0.13	0.00
6/10/2024	17:45	191.3	0.985	0.04	0.01	-0.10	0.00
6/10/2024	17:46	191.4	0.985	-0.02	0.01	-0.20	0.01
6/10/2024	17:47	191.4	0.985	-0.01	0.01	-0.11	0.00
6/10/2024	17:48	191.4	0.985	0.04	0.01	-0.15	0.01
6/10/2024	17:49	191.4	0.985	0.02	0.01	-0.16	0.01
6/10/2024	17:50	191.4	0.985	-0.01	0.01	-0.11	0.01
6/10/2024	17:51	191.3	0.985	0.04	0.01	-0.22	0.01
6/10/2024	17:52	191.4	0.986	0.09	0.01	-0.20	0.01
6/10/2024	17:53	191.4	0.985	0.06	0.01	-0.19	0.01
6/10/2024	17:54	191.4	0.986	0.09	0.01	-0.15	0.00
6/10/2024	17:55	191.4	0.985	0.04	0.01	-0.17	0.00
6/10/2024	17:56	191.4	0.985	0.05	0.01	-0.12	0.00
6/10/2024	17:59	191.4	0.985	0.00	0.00	0.00	0.00
6/10/2024	18:01	191.4	0.985	0.11	0.00	-0.04	0.00
6/10/2024	18:02	191.4	0.985	0.02	0.04	78.07	-0.01
6/10/2024	18:03	191.4	0.985	-0.04	0.02	99.22	-0.01
6/10/2024	18:04	191.4	0.985	0.02	0.01	99.42	-0.01
6/10/2024	18:05	191.4	0.985	0.02	0.00	99.18	0.00
6/10/2024	18:06	191.4	0.985	0.02	0.00	99.24	-0.01
6/10/2024	18:07	191.4	0.985	-0.02	0.00	99.07	0.00
6/10/2024	18:08	191.4	0.985	-0.06	0.00	99.06	-0.01
6/10/2024	18:09	191.4	0.985	-0.08	0.01	36.46	-0.01
6/10/2024	18:10	191.4	0.985	0.02	0.00	0.01	0.00
6/10/2024	18:11	191.4	0.985	-0.02	0.00	0.02	0.00
6/10/2024	18:12	191.4	0.985	0.00	0.00	0.00	0.00
6/10/2024	18:13	191.4	0.985	0.02	0.00	-0.05	0.00
6/10/2024	18:14	191.4	0.985	0.03	0.00	-0.02	0.00
6/10/2024	18:15	191.4	0.985	0.02	-0.01	0.01	0.00
6/10/2024	18:16	191.4	0.985	0.10	0.00	-0.02	0.00
6/10/2024	18:17	191.4	0.985	0.01	0.00	-0.04	0.00
6/10/2024	18:18	191.4	0.985	0.13	0.00	-0.03	0.00
6/10/2024	18:19	191.4	0.985	0.00	0.00	-0.02	0.00
6/10/2024	18:21	191.4	0.985	0.07	0.00	0.03	0.00
6/10/2024	18:22	191.4	0.986	7.38	0.01	1.19	0.59
6/10/2024	18:23	191.4	0.985	83.95	0.02	-0.35	9.57
6/10/2024	18:24	191.4	0.985	85.51	0.01	-0.17	9.57
6/10/2024	18:25	191.4	0.985	85.87	0.01	-0.43	9.59
6/10/2024	18:26	191.4	0.985	85.17	0.00	-0.39	9.59
6/10/2024	18:27	191.4	0.984	77.61	0.01	-0.37	9.48
6/10/2024	18:28	191.4	1.013	84.57	0.00	-0.27	9.57
6/10/2024	18:29	191.4	1.030	85.84	0.00	-0.09	9.66
6/10/2024	18:30	191.4	1.051	86.05	0.00	0.19	9.74
6/10/2024	18:31	191.5	1.055	86.14	0.00	0.24	9.77
6/10/2024	18:32	191.5	1.069	86.07	0.00	0.27	9.82
6/10/2024	18:33	191.6	1.078	86.13	0.00	0.48	9.86
6/10/2024	18:34	191.6	1.078	86.06	0.00	0.53	9.86
6/10/2024	18:35	191.6	1.160	85.29	0.00	1.21	10.01
6/10/2024	18:36	191.7	1.068	86.35	0.00	0.43	9.82
6/10/2024	18:37	191.6	1.039	86.37	0.00	-0.02	9.71
6/10/2024	18:38	191.5	1.039	86.41	0.00	0.02	9.70
6/10/2024	18:39	191.5	1.039	86.33	0.00	-0.14	9.71
6/10/2024	18:40	191.5	1.039	86.33	0.00	-0.09	9.70
6/10/2024	18:41	191.5	1.039	86.39	0.00	-0.02	9.70
6/10/2024	18:43	191.5	1.038	86.31	0.00	-0.03	9.70

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/10/2024	18:44	191.6	1.038	86.26	0.00	-0.13	9.69
6/10/2024	18:45	191.5	1.018	31.87	0.01	3.83	2.50
6/10/2024	18:46	191.5	1.015	0.42	0.00	0.01	0.00
6/10/2024	18:47	191.5	1.015	0.31	0.00	-0.02	0.00
6/10/2024	18:48	191.5	1.015	0.22	0.00	-0.05	0.00
6/10/2024	18:49	191.5	1.015	0.21	0.00	-0.04	0.00
6/10/2024	18:50	191.5	1.015	0.10	0.00	-0.01	0.00
6/10/2024	18:51	191.5	1.015	0.16	0.00	-0.10	0.00
6/10/2024	18:52	191.5	1.015	0.10	0.00	-0.06	0.00
6/10/2024	18:53	191.5	1.015	0.11	0.00	-0.02	0.00
6/10/2024	18:56	191.4	1.015	0.00	0.00	0.00	0.00
6/10/2024	18:57	191.4	1.015	-0.10	0.00	0.03	0.00
6/10/2024	18:58	191.5	1.015	-0.05	0.00	0.01	0.00
6/10/2024	18:59	191.5	1.015	-0.04	0.00	0.01	0.00
6/10/2024	19:00	191.5	1.015	-0.10	0.00	0.03	0.00
6/10/2024	19:01	191.5	1.015	0.02	0.00	0.03	0.00
6/10/2024	19:02	191.5	1.015	-0.11	0.00	0.03	0.00
6/10/2024	19:03	191.5	1.015	-0.17	0.00	0.02	0.00
6/10/2024	19:04	191.4	0.988	-0.01	0.00	0.04	0.00
6/11/2024	7:07	191.4	1.041	-0.17	0.24	0.22	0.00
6/11/2024	7:08	191.4	1.041	-0.12	0.24	0.08	0.00
6/11/2024	7:10	191.5	1.042	0.00	0.00	0.00	0.00
6/11/2024	7:11	191.5	1.042	0.03	0.00	-0.02	0.00
6/11/2024	7:12	191.5	1.042	0.05	0.00	0.01	0.00
6/11/2024	7:13	191.5	1.042	-0.06	0.00	0.00	0.00
6/11/2024	7:14	191.5	1.042	-0.06	0.00	0.04	0.00
6/11/2024	7:15	191.5	1.042	-0.04	0.00	-0.02	0.00
6/11/2024	7:16	191.5	1.042	-0.01	0.00	0.01	0.00
6/11/2024	7:18	191.5	1.042	-0.04	0.00	0.01	0.00
6/11/2024	7:19	191.5	1.036	51.02	-0.13	4.91	4.80
6/11/2024	7:20	191.5	1.037	84.96	-0.23	-0.21	9.64
6/11/2024	7:21	191.6	1.037	85.41	-0.23	-0.20	9.64
6/11/2024	7:22	191.5	1.037	85.65	-0.23	-0.25	9.65
6/11/2024	7:23	191.5	1.037	85.89	-0.23	-0.18	9.63
6/11/2024	7:24	191.5	1.037	85.75	-0.23	-0.16	9.63
6/11/2024	7:25	191.5	1.037	85.73	-0.24	-0.16	9.63
6/11/2024	7:26	191.5	1.037	85.94	-0.23	-0.09	9.62
6/11/2024	7:27	191.5	1.037	86.00	-0.23	-0.26	9.63
6/11/2024	7:28	191.5	1.042	26.75	-0.08	3.39	2.02
6/11/2024	7:29	191.5	1.041	0.36	0.00	0.02	0.00
6/11/2024	7:30	191.6	1.042	0.19	0.00	-0.02	0.00
6/11/2024	7:31	191.5	1.042	0.10	0.00	-0.01	0.00
6/11/2024	7:32	191.5	1.042	0.10	0.00	-0.04	0.00
6/11/2024	7:33	191.5	1.042	0.05	0.00	-0.03	0.00
6/11/2024	7:34	191.5	1.041	0.05	0.00	-0.04	0.00
6/11/2024	7:35	191.5	1.042	0.00	0.00	-0.05	0.00
6/11/2024	7:36	191.6	1.042	0.02	0.00	-0.01	0.00
6/11/2024	7:37	191.5	1.041	0.02	0.00	-0.02	0.00
6/11/2024	7:38	191.6	1.075	0.48	1.05	-0.01	0.01
6/11/2024	7:40	191.6	1.074	0.57	1.29	-0.09	0.00
6/11/2024	7:41	191.6	1.074	0.63	1.22	-0.06	0.00
6/11/2024	7:42	191.6	1.074	0.54	1.27	-0.07	0.00
6/11/2024	7:43	191.7	1.075	0.56	1.30	-0.07	0.00
6/11/2024	7:44	191.7	1.068	1.02	3.35	0.02	0.00
6/11/2024	7:45	191.6	1.054	1.29	9.47	0.01	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	7:46	191.6	1.055	2.02	12.42	0.00	-0.01
6/11/2024	7:47	191.7	1.069	2.10	16.86	0.01	-0.01
6/11/2024	7:48	191.8	1.067	1.98	16.81	0.08	0.00
6/11/2024	7:49	191.7	1.062	2.02	15.48	0.06	-0.01
6/11/2024	7:50	191.6	1.063	2.35	15.02	0.05	-0.01
6/11/2024	7:51	191.7	1.075	1.71	19.86	-0.44	-0.01
6/11/2024	7:52	191.7	1.063	2.35	15.24	0.05	0.00
6/11/2024	7:53	191.7	1.063	2.34	15.09	0.02	-0.01
6/11/2024	7:54	191.7	1.070	1.55	19.88	-0.25	-0.01
6/11/2024	7:55	191.7	1.066	2.03	16.95	-0.02	-0.01
6/11/2024	7:56	191.7	1.064	2.02	15.56	0.09	-0.01
6/11/2024	7:57	191.6	1.066	2.32	15.17	0.11	-0.01
6/11/2024	7:58	191.6	1.063	2.36	15.10	0.06	0.00
6/11/2024	7:59	191.7	1.072	1.50	20.78	-0.38	-0.01
6/11/2024	8:00	191.7	1.068	2.44	15.46	-0.02	-0.01
6/11/2024	8:02	191.7	1.068	5.96	17.28	-0.11	0.43
6/11/2024	8:03	191.7	1.064	5.94	14.58	0.03	0.45
6/11/2024	8:04	191.7	1.066	5.57	17.63	0.03	0.44
6/11/2024	8:05	191.7	1.066	6.09	14.49	0.01	0.46
6/11/2024	8:06	191.7	1.066	6.18	15.24	-0.07	0.46
6/11/2024	8:07	191.7	1.069	6.05	14.23	0.05	0.46
6/11/2024	8:08	191.7	1.069	5.80	17.24	0.08	0.44
6/11/2024	8:09	191.8	1.096	8.92	12.52	0.32	0.86
6/11/2024	8:10	191.7	1.095	2.04	9.77	0.07	-0.01
6/11/2024	8:11	191.8	1.103	2.16	12.55	0.05	-0.01
6/11/2024	8:12	191.8	1.096	1.17	10.02	0.11	-0.01
6/11/2024	8:13	191.8	1.065	2.77	16.28	-0.06	0.00
6/11/2024	8:14	191.8	1.065	2.70	17.57	-0.02	0.00
6/11/2024	8:15	191.8	1.071	2.08	15.89	0.10	-0.01
6/11/2024	8:16	191.7	1.044	1.80	7.48	-0.02	-0.01
6/11/2024	8:17	191.6	1.035	0.87	1.78	0.02	-0.01
6/11/2024	8:18	191.6	1.034	0.20	0.46	0.09	-0.01
6/11/2024	8:19	191.7	1.033	0.17	0.31	0.10	-0.01
6/11/2024	8:22	191.6	1.033	0.00	0.00	0.00	0.00
6/11/2024	8:23	191.5	1.033	-0.04	-0.03	0.02	0.00
6/11/2024	8:24	191.5	1.033	0.03	-0.05	0.04	0.00
6/11/2024	8:25	191.5	1.033	-0.08	-0.07	0.03	0.00
6/11/2024	8:26	191.5	1.032	-0.01	-0.07	0.01	0.00
6/11/2024	8:27	191.5	1.032	-0.07	-0.07	0.03	0.00
6/11/2024	8:28	191.6	1.032	0.00	-0.07	0.02	0.00
6/11/2024	8:29	191.6	1.032	-0.03	-0.07	0.00	0.00
6/11/2024	8:30	191.6	1.025	-0.18	-0.21	52.97	0.01
6/11/2024	8:31	191.6	1.029	-0.12	-0.33	98.94	0.01
6/11/2024	8:32	191.5	1.029	-0.04	-0.34	99.14	0.01
6/11/2024	8:33	191.5	1.029	-0.07	-0.34	99.13	0.01
6/11/2024	8:34	191.5	1.041	1.05	1.89	10.08	0.01
6/11/2024	8:35	191.5	1.043	1.15	4.77	-0.09	0.00
6/11/2024	8:36	191.6	1.054	1.65	21.77	-0.47	0.00
6/11/2024	8:37	191.7	1.062	1.95	16.72	0.01	0.00
6/11/2024	8:38	191.8	1.065	1.98	17.61	0.00	0.00
6/11/2024	8:40	191.8	1.072	2.02	17.74	-0.02	0.00
6/11/2024	8:41	191.7	1.063	1.98	17.68	-0.24	0.00
6/11/2024	8:42	191.8	1.061	2.00	16.31	-0.04	0.00
6/11/2024	8:43	191.8	1.061	2.36	16.17	-0.03	0.01
6/11/2024	8:44	191.8	1.063	2.00	18.27	-0.07	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	8:45	191.8	1.064	2.49	16.28	-0.36	0.00
6/11/2024	8:46	191.8	1.063	1.94	17.48	-0.04	0.00
6/11/2024	8:47	191.8	1.061	2.39	16.10	-0.04	0.01
6/11/2024	8:48	191.8	1.062	2.07	17.61	-0.06	0.00
6/11/2024	8:49	191.8	1.070	2.51	15.10	-0.13	0.01
6/11/2024	8:50	191.8	1.074	1.64	7.03	-0.18	0.00
6/11/2024	8:51	191.7	1.069	1.42	5.20	-0.10	0.01
6/11/2024	8:52	191.7	1.070	0.86	2.09	-0.07	0.01
6/11/2024	8:53	191.7	1.067	0.88	2.18	-0.05	0.01
6/11/2024	8:54	191.7	1.067	0.36	0.43	-0.04	0.01
6/11/2024	8:55	191.7	1.067	0.14	0.04	-0.05	0.01
6/11/2024	8:56	191.7	1.066	0.09	-0.16	0.00	0.01
6/11/2024	8:57	191.7	1.066	0.46	0.49	-0.04	0.01
6/11/2024	8:58	191.7	1.065	0.53	0.81	-0.10	0.01
6/11/2024	8:59	191.6	1.065	0.04	-0.13	-0.09	0.01
6/11/2024	9:00	191.6	1.065	0.00	-0.09	-0.05	0.01
6/11/2024	9:02	191.6	1.065	0.13	0.11	-0.10	0.01
6/11/2024	9:03	191.6	1.065	0.00	-0.31	-0.04	0.01
6/11/2024	9:04	191.7	1.065	-0.01	-0.31	-0.04	0.01
6/11/2024	9:05	191.7	1.063	0.87	2.12	-0.11	0.01
6/11/2024	9:06	191.7	1.064	1.03	2.82	-0.14	0.01
6/11/2024	9:07	191.7	1.064	0.90	1.56	-0.25	0.01
6/11/2024	9:08	191.7	1.057	1.08	4.81	0.08	0.00
6/11/2024	9:09	191.6	1.054	1.89	12.52	-0.08	0.00
6/11/2024	9:10	191.6	1.057	2.00	13.41	-0.13	0.00
6/11/2024	9:11	191.6	1.059	2.00	13.87	-0.10	0.00
6/11/2024	9:12	191.8	1.064	1.97	17.07	-0.11	0.01
6/11/2024	9:13	191.7	1.059	2.20	14.13	-0.08	0.01
6/11/2024	9:14	191.8	1.063	2.11	16.77	-0.32	0.00
6/11/2024	9:15	191.7	1.063	2.15	17.23	-0.08	0.00
6/11/2024	9:16	191.9	1.061	2.26	15.44	-0.11	0.01
6/11/2024	9:17	191.7	1.059	2.20	14.40	-0.11	0.00
6/11/2024	9:18	191.8	1.062	2.01	16.76	-0.07	0.00
6/11/2024	9:19	191.7	1.066	1.96	17.29	-0.25	0.00
6/11/2024	9:20	191.9	1.061	1.96	16.17	-0.16	0.00
6/11/2024	9:22	191.8	1.060	2.21	14.53	-0.11	0.01
6/11/2024	9:23	191.9	1.066	2.07	17.62	-0.10	0.00
6/11/2024	9:24	191.8	1.059	2.16	14.32	-0.07	0.00
6/11/2024	9:25	191.7	1.063	2.04	17.31	-0.13	0.00
6/11/2024	9:26	191.9	1.060	2.49	15.82	-0.06	0.01
6/11/2024	9:27	191.8	1.061	2.48	16.33	-0.12	0.01
6/11/2024	9:28	191.7	1.060	2.25	15.05	-0.08	0.01
6/11/2024	9:29	191.8	1.064	2.00	17.40	-0.20	0.00
6/11/2024	9:30	191.8	1.062	1.98	17.24	-0.03	-0.01
6/11/2024	9:31	191.8	1.060	1.90	16.03	-0.08	0.00
6/11/2024	9:32	191.8	1.060	2.15	14.44	-0.13	0.01
6/11/2024	9:33	191.9	1.066	1.38	20.79	-0.63	0.02
6/11/2024	9:34	191.9	1.060	2.17	14.58	-0.12	0.01
6/11/2024	9:35	191.8	1.061	2.29	15.81	-0.14	0.01
6/11/2024	9:36	191.8	1.066	2.06	18.25	-0.21	0.00
6/11/2024	9:37	191.9	1.060	2.22	15.07	-0.16	0.01
6/11/2024	9:38	191.8	1.060	2.17	14.36	-0.12	0.00
6/11/2024	9:39	191.9	1.067	2.02	17.57	-0.11	0.00
6/11/2024	9:40	191.9	1.061	2.11	14.53	-0.09	0.01
6/11/2024	9:41	191.9	1.069	2.02	17.78	-0.13	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	9:42	191.9	1.064	2.52	16.48	-0.15	0.01
6/11/2024	9:43	191.9	1.061	2.20	14.97	-0.10	0.01
6/11/2024	9:45	191.8	1.061	2.18	14.80	-0.07	0.00
6/11/2024	9:46	191.8	1.067	2.14	16.84	-0.30	0.00
6/11/2024	9:47	192.0	1.064	2.23	15.27	-0.16	0.01
6/11/2024	9:48	191.8	1.063	2.15	14.69	-0.14	0.01
6/11/2024	9:49	191.8	1.073	2.09	18.43	-0.21	-0.01
6/11/2024	9:50	192.0	1.064	2.19	14.94	-0.11	0.01
6/11/2024	9:51	191.8	1.063	2.32	14.85	-0.09	0.00
6/11/2024	9:52	191.8	1.065	2.30	15.20	-0.11	0.01
6/11/2024	9:53	191.8	1.070	2.01	17.54	0.01	0.00
6/11/2024	9:54	192.0	1.063	2.30	15.03	-0.07	0.01
6/11/2024	9:55	191.8	1.068	2.13	16.61	-0.08	-0.01
6/11/2024	9:56	192.0	1.065	2.16	15.43	-0.08	0.01
6/11/2024	9:57	191.8	1.063	2.25	14.79	-0.08	0.00
6/11/2024	9:58	191.8	1.063	2.24	14.78	-0.08	0.01
6/11/2024	9:59	192.0	1.070	2.09	17.37	-0.16	0.00
6/11/2024	10:00	191.8	1.062	2.24	14.76	-0.12	0.01
6/11/2024	10:01	191.8	1.064	2.27	15.20	-0.09	0.01
6/11/2024	10:02	191.9	1.065	2.10	17.00	-0.19	0.00
6/11/2024	10:03	191.8	1.061	2.30	14.78	-0.06	0.01
6/11/2024	10:04	192.0	1.069	2.16	18.37	-0.07	0.00
6/11/2024	10:05	191.9	1.062	2.25	14.76	-0.08	0.00
6/11/2024	10:07	191.8	1.068	2.15	17.76	-0.28	-0.01
6/11/2024	10:08	192.0	1.063	2.30	15.12	-0.10	0.00
6/11/2024	10:09	192.0	1.064	2.02	16.53	-0.06	0.00
6/11/2024	10:10	191.9	1.062	2.21	14.81	-0.02	0.00
6/11/2024	10:11	191.8	1.063	2.29	14.81	-0.14	0.01
6/11/2024	10:12	191.9	1.066	1.95	16.65	-0.05	0.00
6/11/2024	10:13	191.9	1.068	2.20	17.74	-0.19	0.00
6/11/2024	10:14	192.0	1.062	2.27	15.19	-0.10	0.00
6/11/2024	10:15	191.8	1.062	2.25	14.85	-0.08	0.01
6/11/2024	10:16	192.0	1.069	1.60	19.94	-0.57	0.00
6/11/2024	10:17	191.9	1.062	2.25	14.98	-0.09	0.00
6/11/2024	10:18	191.8	1.063	2.25	14.86	-0.10	0.00
6/11/2024	10:19	191.8	1.069	2.64	15.85	-0.28	0.01
6/11/2024	10:20	192.0	1.062	2.34	15.24	-0.10	0.01
6/11/2024	10:21	191.8	1.074	2.48	15.61	-0.47	0.01
6/11/2024	10:22	192.1	1.073	1.26	5.42	-0.19	0.01
6/11/2024	10:23	191.9	1.070	1.10	3.05	-0.13	0.01
6/11/2024	10:24	191.8	1.069	1.05	2.80	-0.09	0.01
6/11/2024	10:25	191.8	1.069	0.25	0.31	-0.10	0.01
6/11/2024	10:26	191.8	1.069	0.08	0.06	-0.09	0.01
6/11/2024	10:27	191.7	1.060	1.07	4.47	0.06	0.00
6/11/2024	10:29	191.7	1.057	2.06	12.72	-0.09	0.00
6/11/2024	10:30	191.7	1.060	2.08	13.72	-0.12	0.00
6/11/2024	10:31	191.7	1.062	2.08	14.06	-0.10	0.00
6/11/2024	10:32	191.9	1.067	2.06	16.54	-0.08	0.00
6/11/2024	10:33	191.8	1.062	2.36	15.61	-0.09	0.01
6/11/2024	10:34	191.9	1.063	2.01	17.07	-0.13	0.00
6/11/2024	10:35	191.9	1.063	2.18	14.89	-0.07	0.01
6/11/2024	10:36	191.9	1.069	2.08	17.41	0.05	-0.01
6/11/2024	10:37	191.9	1.062	2.25	15.02	-0.16	0.01
6/11/2024	10:38	191.8	1.062	2.30	15.58	-0.09	0.01
6/11/2024	10:39	191.8	1.067	2.11	18.40	-0.25	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	10:40	192.1	1.062	2.19	15.07	-0.11	0.01
6/11/2024	10:41	191.9	1.064	2.00	17.06	-0.23	0.00
6/11/2024	10:42	192.0	1.065	1.98	17.30	-0.12	0.00
6/11/2024	10:43	192.0	1.062	2.20	14.87	-0.07	0.01
6/11/2024	10:44	191.9	1.065	2.55	16.13	-0.10	0.01
6/11/2024	10:45	191.9	1.062	2.16	15.00	-0.12	0.01
6/11/2024	10:46	191.8	1.061	2.19	14.72	-0.06	0.01
6/11/2024	10:47	192.0	1.070	2.20	17.77	-0.24	-0.01
6/11/2024	10:48	191.9	1.061	2.23	14.83	-0.10	0.01
6/11/2024	10:49	191.9	1.063	2.38	15.78	-0.15	0.01
6/11/2024	10:51	191.8	1.067	2.07	17.24	0.02	-0.01
6/11/2024	10:52	192.1	1.063	2.17	15.07	-0.09	0.01
6/11/2024	10:53	192.0	1.065	2.33	16.14	-0.33	0.01
6/11/2024	10:54	192.0	1.062	2.34	16.16	-0.15	0.01
6/11/2024	10:55	191.9	1.062	2.26	14.87	-0.11	0.01
6/11/2024	10:56	192.0	1.067	2.09	17.09	-0.67	0.00
6/11/2024	10:57	191.8	1.061	2.20	14.95	-0.11	0.01
6/11/2024	10:58	191.8	1.067	2.00	16.40	-0.09	0.00
6/11/2024	10:59	192.0	1.064	2.27	15.98	-0.22	0.01
6/11/2024	11:00	191.9	1.061	2.20	14.93	-0.13	0.01
6/11/2024	11:01	191.9	1.067	2.10	16.78	-0.22	0.00
6/11/2024	11:02	192.0	1.062	2.19	14.87	-0.08	0.00
6/11/2024	11:03	192.0	1.065	2.16	17.26	-0.05	0.00
6/11/2024	11:04	191.9	1.062	2.23	14.95	-0.12	0.01
6/11/2024	11:05	191.9	1.065	1.93	16.61	0.54	0.00
6/11/2024	11:06	192.1	1.068	1.48	19.97	-0.47	0.00
6/11/2024	11:07	192.0	1.061	2.19	14.91	-0.08	0.01
6/11/2024	11:08	191.9	1.061	2.23	14.98	-0.13	0.01
6/11/2024	11:09	191.8	1.062	2.19	14.85	-0.09	0.00
6/11/2024	11:10	192.0	1.070	2.11	18.60	-0.13	0.00
6/11/2024	11:11	192.0	1.062	2.31	15.68	-0.11	0.01
6/11/2024	11:13	191.9	1.062	2.23	14.92	-0.12	0.01
6/11/2024	11:14	191.8	1.066	2.13	16.70	-0.19	0.00
6/11/2024	11:15	192.1	1.064	1.99	16.27	-0.19	0.00
6/11/2024	11:16	191.9	1.061	2.22	15.04	-0.14	0.00
6/11/2024	11:17	192.1	1.064	2.04	17.88	-0.05	0.00
6/11/2024	11:18	192.0	1.061	2.25	14.87	-0.09	0.00
6/11/2024	11:19	191.9	1.061	2.28	15.22	-0.09	0.01
6/11/2024	11:20	191.8	1.061	2.19	14.82	-0.06	0.00
6/11/2024	11:21	192.0	1.069	2.08	18.28	-0.16	-0.01
6/11/2024	11:22	192.0	1.061	2.35	15.99	-0.13	0.01
6/11/2024	11:23	191.9	1.062	2.27	15.28	-0.15	0.01
6/11/2024	11:24	191.9	1.064	2.05	16.87	-0.29	0.01
6/11/2024	11:25	192.1	1.062	1.97	16.79	-0.02	0.00
6/11/2024	11:26	192.0	1.061	2.31	15.24	-0.14	0.01
6/11/2024	11:27	191.9	1.061	2.26	14.94	-0.07	0.00
6/11/2024	11:28	192.1	1.068	2.19	17.73	-0.19	0.00
6/11/2024	11:29	192.0	1.063	2.59	16.15	-0.17	0.01
6/11/2024	11:30	192.1	1.063	2.33	15.62	-0.17	0.01
6/11/2024	11:31	192.0	1.060	2.22	14.75	-0.07	0.00
6/11/2024	11:32	191.9	1.072	2.14	13.33	-0.19	0.00
6/11/2024	11:33	191.9	1.072	1.34	6.06	-0.14	0.01
6/11/2024	11:35	191.8	1.066	1.32	5.73	-0.13	0.01
6/11/2024	11:36	191.8	1.064	1.47	6.89	-0.11	0.01
6/11/2024	11:37	191.7	1.061	1.73	7.88	-0.11	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	11:38	191.8	1.068	1.80	8.56	-0.17	0.00
6/11/2024	11:39	191.7	1.069	0.84	1.45	-0.12	0.01
6/11/2024	11:40	191.7	1.068	0.12	0.43	-0.11	0.01
6/11/2024	11:41	191.8	1.055	1.75	8.52	-0.09	0.00
6/11/2024	11:42	191.7	1.056	2.01	13.29	-0.08	0.00
6/11/2024	11:43	191.7	1.060	2.00	14.10	-0.11	0.00
6/11/2024	11:44	191.9	1.064	2.01	17.76	-0.21	0.00
6/11/2024	11:45	191.9	1.061	2.30	15.28	-0.14	0.00
6/11/2024	11:46	191.8	1.061	2.36	14.96	-0.12	0.01
6/11/2024	11:47	191.8	1.067	2.20	17.24	-0.19	0.00
6/11/2024	11:48	192.0	1.061	2.24	15.15	-0.10	0.01
6/11/2024	11:49	192.1	1.064	2.10	17.92	-0.13	0.00
6/11/2024	11:50	191.9	1.064	2.03	16.95	-0.08	0.00
6/11/2024	11:51	192.1	1.062	2.43	16.15	-0.14	0.01
6/11/2024	11:52	191.9	1.060	2.26	15.04	-0.11	0.01
6/11/2024	11:53	191.9	1.065	2.10	18.39	-0.14	0.00
6/11/2024	11:54	192.1	1.061	2.25	15.14	-0.08	0.01
6/11/2024	11:55	191.8	1.061	2.27	15.06	-0.10	0.00
6/11/2024	11:57	191.8	1.061	2.33	15.05	-0.10	0.00
6/11/2024	11:58	191.8	1.066	2.14	17.09	-0.40	0.00
6/11/2024	11:59	192.1	1.061	2.23	14.94	-0.08	0.00
6/11/2024	12:00	192.0	1.064	2.13	17.72	-0.20	0.00
6/11/2024	12:01	192.1	1.062	2.26	15.27	-0.15	0.00
6/11/2024	12:02	191.9	1.060	2.25	15.00	-0.08	0.01
6/11/2024	12:03	192.0	1.065	1.54	19.96	-0.39	0.01
6/11/2024	12:04	192.2	1.063	1.93	16.30	-0.13	0.00
6/11/2024	12:05	191.9	1.060	2.28	15.02	-0.10	0.01
6/11/2024	12:06	191.9	1.063	1.95	16.71	-0.04	0.00
6/11/2024	12:07	192.1	1.064	1.65	16.94	-0.08	0.00
6/11/2024	12:08	191.9	1.059	1.81	14.87	0.01	0.01
6/11/2024	12:09	192.0	1.064	1.88	16.99	-0.14	0.00
6/11/2024	12:10	192.0	1.059	2.06	14.88	-0.11	0.01
6/11/2024	12:11	191.8	1.060	2.21	14.88	-0.10	0.01
6/11/2024	12:12	192.0	1.064	1.99	18.08	-0.22	0.00
6/11/2024	12:13	192.1	1.062	1.98	17.05	-0.09	0.00
6/11/2024	12:14	192.0	1.063	2.01	16.46	-0.12	0.00
6/11/2024	12:15	192.0	1.061	2.27	15.55	-0.09	0.00
6/11/2024	12:16	192.1	1.068	2.13	18.30	-0.21	0.00
6/11/2024	12:17	192.0	1.060	2.25	15.10	-0.10	0.00
6/11/2024	12:18	191.9	1.060	2.27	15.21	-0.10	0.01
6/11/2024	12:20	191.9	1.060	2.30	15.09	-0.14	0.00
6/11/2024	12:21	192.0	1.067	1.51	20.59	-0.63	0.00
6/11/2024	12:22	192.1	1.062	1.97	16.76	-0.06	0.00
6/11/2024	12:23	192.0	1.062	2.24	15.59	-0.11	0.01
6/11/2024	12:24	191.9	1.060	2.23	15.14	-0.12	0.00
6/11/2024	12:25	192.0	1.067	2.11	17.16	-0.16	0.00
6/11/2024	12:26	191.9	1.060	2.25	15.05	-0.13	0.00
6/11/2024	12:27	191.9	1.061	2.22	15.16	-0.10	0.00
6/11/2024	12:28	192.0	1.064	2.06	16.94	-0.09	0.00
6/11/2024	12:29	191.9	1.060	2.32	15.08	-0.25	0.01
6/11/2024	12:30	192.1	1.064	2.13	18.22	-0.05	0.00
6/11/2024	12:31	192.1	1.061	2.50	16.47	-0.09	0.01
6/11/2024	12:32	192.0	1.060	2.23	15.29	-0.11	0.01
6/11/2024	12:33	192.1	1.065	2.15	17.66	-0.17	0.00
6/11/2024	12:34	191.9	1.059	2.27	14.96	-0.08	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	12:35	191.9	1.060	2.24	14.99	-0.11	0.00
6/11/2024	12:36	191.8	1.065	2.12	17.79	-0.18	0.00
6/11/2024	12:37	192.1	1.062	1.91	17.54	-0.03	0.00
6/11/2024	12:38	192.0	1.061	2.31	15.58	-0.13	0.01
6/11/2024	12:39	192.0	1.060	2.25	15.02	-0.09	0.01
6/11/2024	12:40	191.8	1.063	2.55	15.61	-0.22	0.01
6/11/2024	12:42	192.2	1.066	2.10	17.87	-0.21	0.00
6/11/2024	12:43	192.0	1.059	2.23	15.07	-0.13	0.00
6/11/2024	12:44	192.0	1.062	2.10	17.39	-0.21	0.00
6/11/2024	12:45	192.0	1.074	1.17	10.21	-0.27	0.00
6/11/2024	12:46	191.9	1.070	1.09	4.29	-0.14	0.01
6/11/2024	12:47	191.9	1.067	0.95	2.51	-0.10	0.01
6/11/2024	12:48	191.8	1.066	0.60	1.60	-0.09	0.01
6/11/2024	12:49	191.8	1.066	0.15	0.13	-0.07	0.01
6/11/2024	12:50	191.8	1.065	0.01	-0.06	-0.07	0.01
6/11/2024	12:51	191.8	1.065	-0.06	-0.24	-0.07	0.01
6/11/2024	12:52	191.8	1.065	-0.08	-0.32	-0.09	0.01
6/11/2024	12:53	191.8	1.065	-0.08	-0.34	-0.09	0.01
6/11/2024	12:54	191.8	1.065	-0.03	-0.34	-0.10	0.01
6/11/2024	12:55	191.7	1.058	1.03	4.32	0.09	0.00
6/11/2024	12:56	191.8	1.055	1.99	13.40	-0.11	0.00
6/11/2024	12:57	191.7	1.057	2.11	14.13	-0.09	0.00
6/11/2024	12:58	191.7	1.058	2.25	14.67	-0.03	0.01
6/11/2024	12:59	191.8	1.060	2.34	14.93	-0.08	0.00
6/11/2024	13:00	191.8	1.066	2.13	18.62	-0.22	0.00
6/11/2024	13:01	192.2	1.061	2.46	16.10	-0.14	0.01
6/11/2024	13:03	191.9	1.058	2.23	14.99	-0.11	0.01
6/11/2024	13:04	191.8	1.059	2.24	14.95	-0.12	0.00
6/11/2024	13:05	191.8	1.066	2.00	18.38	-0.39	-0.01
6/11/2024	13:06	192.1	1.060	2.24	15.16	-0.12	0.00
6/11/2024	13:07	191.9	1.058	2.29	15.19	-0.11	0.00
6/11/2024	13:08	191.8	1.059	2.31	15.09	-0.08	0.01
6/11/2024	13:09	191.8	1.064	2.21	17.19	-0.10	0.00
6/11/2024	13:10	192.2	1.063	1.95	17.91	-0.10	0.00
6/11/2024	13:11	192.1	1.060	2.34	15.75	-0.07	0.01
6/11/2024	13:12	192.0	1.060	2.29	15.08	-0.12	0.01
6/11/2024	13:13	191.9	1.062	2.09	16.48	-0.10	0.00
6/11/2024	13:14	192.1	1.062	2.75	17.62	-0.15	0.01
6/11/2024	13:15	192.0	1.058	2.30	15.08	-0.11	0.00
6/11/2024	13:16	191.9	1.062	2.15	17.61	-0.24	0.00
6/11/2024	13:17	192.2	1.060	2.35	15.79	-0.12	0.01
6/11/2024	13:18	192.0	1.058	2.31	15.20	-0.13	0.01
6/11/2024	13:19	191.9	1.058	2.32	15.08	-0.14	0.00
6/11/2024	13:20	192.0	1.064	1.59	19.94	-0.37	0.00
6/11/2024	13:21	192.1	1.058	2.30	15.13	-0.11	0.00
6/11/2024	13:22	192.0	1.060	2.42	15.94	-0.19	0.01
6/11/2024	13:23	191.9	1.060	2.68	17.28	-0.20	0.01
6/11/2024	13:25	192.1	1.061	1.97	18.59	-0.11	0.00
6/11/2024	13:26	192.1	1.059	2.25	15.09	-0.15	0.00
6/11/2024	13:27	191.9	1.059	2.29	14.96	-0.14	0.01
6/11/2024	13:28	192.0	1.066	1.52	20.29	-0.43	0.00
6/11/2024	13:29	192.1	1.059	1.95	16.34	-0.07	0.00
6/11/2024	13:30	192.0	1.058	2.32	15.39	-0.16	0.00
6/11/2024	13:31	191.9	1.062	2.14	16.88	-0.12	0.00
6/11/2024	13:32	192.2	1.071	2.10	11.92	-0.35	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	13:33	192.0	1.067	1.01	3.76	-0.14	0.01
6/11/2024	13:34	191.9	1.065	0.81	2.24	-0.05	0.01
6/11/2024	13:35	191.8	1.064	0.85	2.16	-0.12	0.01
6/11/2024	13:36	191.8	1.064	0.32	0.47	-0.18	0.01
6/11/2024	13:37	191.8	1.064	-0.07	-0.20	-0.10	0.01
6/11/2024	13:38	191.8	1.064	-0.12	-0.31	-0.11	0.01
6/11/2024	13:39	191.8	1.062	0.40	0.41	-0.17	0.01
6/11/2024	13:40	191.8	1.044	0.23	0.37	-0.14	0.01
6/11/2024	13:41	191.7	1.043	-0.08	-0.24	-0.09	0.01
6/11/2024	13:42	191.7	1.041	-0.09	-0.35	-0.15	0.01
6/11/2024	13:45	191.7	1.041	0.00	0.00	0.00	0.00
6/11/2024	13:46	191.7	1.041	0.15	0.00	0.03	0.00
6/11/2024	13:47	191.7	1.041	0.14	0.00	-0.02	0.00
6/11/2024	13:48	191.7	1.021	0.05	0.00	57.78	-0.02
6/11/2024	13:49	191.7	1.019	0.03	0.00	99.19	0.00
6/11/2024	13:50	191.6	1.019	-0.01	0.00	99.31	0.00
6/11/2024	13:51	191.6	1.019	0.00	0.00	99.30	-0.01
6/11/2024	13:52	191.6	1.046	1.12	4.32	9.80	-0.01
6/11/2024	13:53	191.7	1.050	1.28	10.40	-0.10	-0.02
6/11/2024	13:54	192.1	1.056	2.69	16.32	0.02	-0.01
6/11/2024	13:55	192.1	1.059	2.14	17.00	0.09	-0.02
6/11/2024	13:56	192.1	1.062	2.18	17.91	0.10	-0.02
6/11/2024	13:57	192.0	1.062	2.42	15.60	0.06	-0.01
6/11/2024	13:58	191.9	1.060	2.53	15.61	0.03	-0.01
6/11/2024	13:59	191.8	1.060	2.51	15.75	0.05	-0.01
6/11/2024	14:01	192.0	1.070	1.83	20.89	-0.41	-0.01
6/11/2024	14:02	192.1	1.060	2.14	16.51	0.06	-0.01
6/11/2024	14:03	191.9	1.057	2.49	15.63	0.06	-0.01
6/11/2024	14:04	191.8	1.057	2.47	15.58	0.07	-0.01
6/11/2024	14:05	191.9	1.064	2.26	18.41	0.00	-0.01
6/11/2024	14:06	192.1	1.059	2.59	16.19	0.03	-0.01
6/11/2024	14:07	192.0	1.060	2.80	17.20	-0.09	0.00
6/11/2024	14:08	192.1	1.061	2.14	17.53	0.00	-0.01
6/11/2024	14:09	192.0	1.058	2.14	16.00	0.07	-0.01
6/11/2024	14:10	191.9	1.057	2.54	15.48	-0.01	-0.01
6/11/2024	14:11	191.8	1.061	2.92	17.51	-0.15	0.00
6/11/2024	14:12	192.1	1.058	2.48	15.39	0.05	-0.01
6/11/2024	14:13	192.2	1.064	1.76	20.22	-0.25	-0.01
6/11/2024	14:14	192.1	1.057	2.55	15.90	0.00	-0.01
6/11/2024	14:15	192.2	1.060	2.84	17.72	-0.18	-0.01
6/11/2024	14:16	192.0	1.058	2.12	16.23	0.05	-0.01
6/11/2024	14:17	192.0	1.058	2.58	15.52	0.05	-0.01
6/11/2024	14:18	191.9	1.063	2.29	18.51	-0.16	-0.01
6/11/2024	14:19	192.1	1.058	2.54	16.40	0.02	-0.01
6/11/2024	14:20	191.9	1.063	2.22	18.18	0.02	-0.02
6/11/2024	14:21	192.1	1.058	2.54	15.74	0.06	-0.01
6/11/2024	14:23	191.9	1.057	2.53	15.61	0.05	-0.01
6/11/2024	14:24	192.0	1.061	2.20	18.93	0.03	-0.01
6/11/2024	14:25	192.2	1.060	2.21	18.36	0.05	-0.01
6/11/2024	14:26	192.0	1.057	2.57	15.65	0.12	-0.01
6/11/2024	14:27	191.9	1.057	2.57	15.73	0.02	-0.01
6/11/2024	14:28	191.9	1.059	2.55	15.62	0.00	-0.01
6/11/2024	14:29	192.0	1.063	2.15	18.08	-0.05	-0.02
6/11/2024	14:30	192.1	1.061	2.17	19.24	-0.01	-0.02
6/11/2024	14:31	192.1	1.057	2.54	16.24	0.03	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	14:32	192.0	1.059	2.66	16.86	-0.03	-0.01
6/11/2024	14:33	192.0	1.065	1.76	21.48	-0.40	-0.01
6/11/2024	14:34	192.2	1.060	2.62	15.78	0.05	-0.01
6/11/2024	14:35	192.0	1.057	2.51	15.67	0.06	-0.01
6/11/2024	14:36	192.0	1.057	2.66	17.01	-0.05	-0.01
6/11/2024	14:37	192.1	1.061	2.20	18.51	0.01	-0.02
6/11/2024	14:38	192.1	1.056	2.60	16.50	-0.03	-0.01
6/11/2024	14:39	191.9	1.059	2.71	17.10	-0.06	-0.01
6/11/2024	14:40	192.0	1.057	2.25	17.57	0.11	-0.01
6/11/2024	14:41	192.0	1.058	2.06	15.90	0.10	-0.01
6/11/2024	14:42	192.2	1.062	1.62	21.05	-0.26	-0.01
6/11/2024	14:43	192.0	1.057	2.53	16.25	0.06	-0.01
6/11/2024	14:45	191.9	1.056	2.51	15.76	0.06	-0.01
6/11/2024	14:46	191.9	1.056	2.57	15.73	0.11	-0.01
6/11/2024	14:47	191.8	1.061	2.27	17.93	-0.06	-0.01
6/11/2024	14:48	192.1	1.057	2.44	15.65	0.02	-0.01
6/11/2024	14:49	191.8	1.058	2.58	15.96	0.07	-0.01
6/11/2024	14:50	192.1	1.063	1.56	21.43	-0.38	-0.01
6/11/2024	14:51	192.1	1.058	2.12	16.65	0.05	-0.01
6/11/2024	14:52	192.0	1.057	2.58	16.04	0.04	-0.01
6/11/2024	14:53	191.9	1.058	2.54	15.77	0.04	-0.01
6/11/2024	14:54	192.0	1.063	1.75	21.52	-0.45	-0.01
6/11/2024	14:55	192.1	1.059	1.83	18.18	0.12	-0.01
6/11/2024	14:56	192.1	1.060	2.25	17.80	0.01	-0.01
6/11/2024	14:57	192.0	1.060	2.21	17.35	0.08	-0.01
6/11/2024	14:58	192.0	1.056	2.25	15.90	0.08	-0.01
6/11/2024	14:59	191.9	1.057	2.51	15.77	0.10	-0.01
6/11/2024	15:00	192.1	1.061	2.17	18.77	0.06	-0.02
6/11/2024	15:01	192.1	1.059	2.30	17.71	0.03	-0.01
6/11/2024	15:02	192.0	1.058	2.57	16.52	0.01	-0.01
6/11/2024	15:03	191.9	1.060	1.72	20.04	-0.12	-0.01
6/11/2024	15:04	192.2	1.059	2.09	16.74	0.08	-0.01
6/11/2024	15:05	191.9	1.057	2.52	15.88	0.03	-0.01
6/11/2024	15:07	191.9	1.058	2.54	15.81	0.10	-0.01
6/11/2024	15:08	191.8	1.058	2.61	15.84	0.09	-0.01
6/11/2024	15:09	191.9	1.062	2.14	18.55	-0.03	-0.01
6/11/2024	15:10	192.1	1.062	2.14	21.01	0.13	-0.01
6/11/2024	15:11	192.1	1.058	1.78	18.11	0.13	-0.01
6/11/2024	15:12	192.0	1.057	2.56	15.61	-0.01	-0.01
6/11/2024	15:13	191.9	1.060	2.21	17.93	0.03	-0.01
6/11/2024	15:14	192.1	1.057	2.12	17.07	0.04	-0.01
6/11/2024	15:15	192.0	1.056	2.11	16.13	0.09	-0.01
6/11/2024	15:16	191.9	1.072	1.14	10.17	-0.03	-0.01
6/11/2024	15:17	191.8	1.066	1.19	4.81	-0.05	0.00
6/11/2024	15:18	191.8	1.064	0.83	3.11	0.01	0.00
6/11/2024	15:19	191.8	1.063	0.83	2.43	-0.03	0.00
6/11/2024	15:20	191.8	1.062	0.79	2.05	-0.02	0.00
6/11/2024	15:21	191.8	1.061	0.93	1.88	-0.04	-0.01
6/11/2024	15:22	191.8	1.062	0.03	0.15	0.02	0.00
6/11/2024	15:23	191.8	1.062	0.06	0.08	-0.07	0.00
6/11/2024	15:24	191.8	1.062	0.05	0.06	0.04	0.00
6/11/2024	15:25	191.8	1.062	0.09	0.06	0.01	0.00
6/11/2024	15:26	191.8	1.062	0.04	0.05	0.01	0.00
6/11/2024	15:27	191.8	1.062	0.05	0.06	0.03	0.00
6/11/2024	15:29	191.8	1.053	1.90	8.10	0.01	-0.02

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	15:30	191.8	1.052	2.40	14.58	0.05	-0.01
6/11/2024	15:31	191.8	1.054	2.48	15.17	0.08	-0.01
6/11/2024	15:32	191.8	1.055	2.57	15.34	0.06	-0.01
6/11/2024	15:33	191.7	1.056	2.47	15.51	0.00	-0.01
6/11/2024	15:34	191.8	1.060	2.28	18.89	-0.01	-0.02
6/11/2024	15:35	192.0	1.057	2.10	17.84	0.09	-0.01
6/11/2024	15:36	191.9	1.056	2.20	16.56	0.05	-0.01
6/11/2024	15:37	191.8	1.054	2.51	15.76	0.03	-0.01
6/11/2024	15:38	191.9	1.058	2.83	17.58	-0.07	-0.01
6/11/2024	15:39	192.0	1.057	2.20	17.55	0.11	-0.02
6/11/2024	15:40	191.9	1.055	2.25	17.04	0.05	-0.01
6/11/2024	15:41	191.9	1.059	2.11	18.02	0.00	-0.01
6/11/2024	15:42	192.0	1.056	2.14	17.86	0.08	-0.01
6/11/2024	15:43	192.0	1.061	1.57	21.05	-0.06	-0.01
6/11/2024	15:44	192.0	1.056	2.12	17.49	0.07	-0.01
6/11/2024	15:45	192.0	1.056	2.16	16.55	0.10	-0.01
6/11/2024	15:46	191.8	1.056	2.53	15.80	0.02	-0.01
6/11/2024	15:47	191.8	1.056	2.59	15.81	0.06	-0.01
6/11/2024	15:48	192.1	1.064	1.70	21.12	-0.65	-0.02
6/11/2024	15:49	192.0	1.055	2.55	15.93	0.02	-0.01
6/11/2024	15:51	191.8	1.055	2.60	15.86	0.04	-0.01
6/11/2024	15:52	191.9	1.058	2.83	17.29	0.01	-0.01
6/11/2024	15:53	192.0	1.055	2.07	16.58	0.05	-0.01
6/11/2024	15:54	192.0	1.059	1.62	20.82	-0.22	-0.01
6/11/2024	15:55	192.0	1.055	2.14	16.92	0.10	-0.01
6/11/2024	15:56	191.9	1.055	2.18	16.10	0.07	-0.01
6/11/2024	15:57	191.9	1.058	2.17	18.68	0.07	-0.01
6/11/2024	15:58	192.1	1.058	2.16	17.88	-0.01	-0.01
6/11/2024	15:59	192.0	1.055	2.58	15.93	0.05	-0.01
6/11/2024	16:00	192.0	1.060	1.70	19.99	-0.20	-0.01
6/11/2024	16:01	192.0	1.057	2.13	16.97	0.08	-0.01
6/11/2024	16:02	191.9	1.054	2.65	16.09	0.04	-0.01
6/11/2024	16:03	191.8	1.054	2.53	15.70	0.03	-0.01
6/11/2024	16:04	191.8	1.057	2.75	17.32	-0.03	-0.01
6/11/2024	16:05	191.9	1.056	2.17	17.75	-0.01	-0.02
6/11/2024	16:06	192.0	1.059	1.53	20.85	-0.17	-0.01
6/11/2024	16:07	192.1	1.058	1.76	18.58	0.03	-0.01
6/11/2024	16:08	192.0	1.056	2.07	16.84	0.09	-0.01
6/11/2024	16:09	191.9	1.055	2.15	15.91	0.07	-0.01
6/11/2024	16:10	191.9	1.057	2.79	17.76	0.03	-0.01
6/11/2024	16:11	192.0	1.059	1.60	21.55	-0.21	-0.01
6/11/2024	16:12	192.1	1.058	1.67	19.54	0.04	-0.01
6/11/2024	16:14	192.0	1.055	2.14	16.87	0.06	-0.01
6/11/2024	16:15	192.0	1.055	2.62	15.85	0.04	-0.01
6/11/2024	16:16	191.9	1.055	2.57	15.56	0.01	-0.01
6/11/2024	16:17	191.9	1.059	2.17	18.31	0.09	-0.01
6/11/2024	16:18	192.1	1.056	2.14	18.60	0.01	-0.01
6/11/2024	16:19	192.1	1.056	2.20	18.53	0.06	-0.01
6/11/2024	16:20	192.0	1.055	2.14	16.88	0.05	-0.01
6/11/2024	16:21	192.0	1.060	2.26	18.13	0.05	-0.02
6/11/2024	16:22	192.2	1.057	2.07	18.30	0.11	-0.02
6/11/2024	16:23	192.1	1.055	2.63	16.63	0.07	-0.01
6/11/2024	16:24	192.1	1.055	2.16	18.93	0.07	-0.01
6/11/2024	16:25	192.1	1.055	2.20	17.74	0.08	-0.01
6/11/2024	16:26	192.0	1.056	2.15	16.61	0.09	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	16:27	192.0	1.058	2.63	16.61	0.03	-0.01
6/11/2024	16:28	192.0	1.057	2.20	17.88	0.10	-0.01
6/11/2024	16:29	192.0	1.057	2.51	16.22	0.11	-0.01
6/11/2024	16:30	191.9	1.059	2.66	17.31	-0.04	-0.01
6/11/2024	16:31	192.0	1.059	2.11	18.61	0.02	-0.01
6/11/2024	16:32	192.2	1.071	0.90	10.12	-0.22	-0.01
6/11/2024	16:33	192.1	1.064	1.14	5.21	-0.08	0.00
6/11/2024	16:34	192.0	1.062	1.05	3.16	-0.02	0.00
6/11/2024	16:36	191.9	1.060	0.88	2.34	0.06	0.00
6/11/2024	16:37	191.9	1.061	0.09	0.29	-0.05	0.00
6/11/2024	16:38	191.8	1.060	0.12	0.15	0.01	0.00
6/11/2024	16:39	191.9	1.051	1.85	8.25	0.07	-0.02
6/11/2024	16:40	191.8	1.051	2.43	14.34	0.07	-0.01
6/11/2024	16:41	191.8	1.052	2.41	14.93	0.04	-0.01
6/11/2024	16:42	191.8	1.054	2.50	15.35	0.06	-0.01
6/11/2024	16:43	191.7	1.056	2.24	17.98	0.08	-0.01
6/11/2024	16:44	192.1	1.058	2.18	16.93	0.09	-0.01
6/11/2024	16:45	192.0	1.056	2.11	16.50	0.04	-0.01
6/11/2024	16:46	191.9	1.055	2.42	15.57	0.10	-0.01
6/11/2024	16:47	191.8	1.056	2.51	15.51	0.07	-0.01
6/11/2024	16:48	191.8	1.060	2.80	16.86	-0.07	0.00
6/11/2024	16:49	192.1	1.061	1.51	21.50	-0.14	-0.01
6/11/2024	16:50	192.1	1.055	1.80	18.01	0.14	-0.01
6/11/2024	16:51	192.0	1.055	2.26	17.43	0.17	-0.01
6/11/2024	16:52	192.0	1.059	2.20	18.53	0.06	-0.01
6/11/2024	16:53	192.1	1.055	2.18	18.03	0.06	-0.01
6/11/2024	16:54	192.0	1.054	2.61	16.48	0.04	-0.01
6/11/2024	16:55	191.9	1.056	2.17	18.45	0.07	-0.01
6/11/2024	16:57	192.1	1.057	2.10	18.22	0.03	-0.01
6/11/2024	16:58	192.0	1.057	2.67	16.67	0.06	-0.01
6/11/2024	16:59	191.9	1.055	2.13	15.74	0.06	-0.01
6/11/2024	17:00	191.9	1.061	2.20	17.89	-0.02	-0.01
6/11/2024	17:01	192.1	1.057	2.08	20.22	0.06	-0.01
6/11/2024	17:02	192.1	1.055	1.88	18.09	0.05	-0.01
6/11/2024	17:03	192.0	1.054	2.55	16.08	0.08	-0.01
6/11/2024	17:04	191.9	1.055	2.49	15.47	0.08	-0.01
6/11/2024	17:05	192.0	1.057	2.15	17.95	-0.02	-0.01
6/11/2024	17:06	191.9	1.053	2.49	15.30	0.13	-0.01
6/11/2024	17:07	191.9	1.060	2.20	18.45	-0.02	-0.06
6/11/2024	17:08	192.1	1.055	2.15	17.37	0.07	-0.02
6/11/2024	17:09	192.0	1.053	2.08	17.05	-0.02	-0.01
6/11/2024	17:10	192.1	1.056	2.14	18.84	-0.02	-0.01
6/11/2024	17:11	192.0	1.057	2.16	16.85	0.04	-0.01
6/11/2024	17:12	192.1	1.057	1.59	20.29	-0.10	-0.01
6/11/2024	17:13	192.1	1.054	2.22	16.94	0.11	-0.01
6/11/2024	17:14	192.0	1.054	2.23	16.10	0.12	-0.01
6/11/2024	17:15	191.9	1.055	2.56	15.52	0.09	-0.01
6/11/2024	17:16	192.1	1.062	1.47	20.82	0.05	0.00
6/11/2024	17:17	192.0	1.054	2.13	16.80	0.03	-0.01
6/11/2024	17:19	192.1	1.057	1.56	20.73	-0.17	-0.01
6/11/2024	17:20	192.1	1.054	2.13	16.60	0.10	-0.01
6/11/2024	17:21	191.9	1.054	2.67	15.88	0.05	-0.01
6/11/2024	17:22	191.8	1.055	2.54	15.61	0.05	-0.01
6/11/2024	17:23	191.8	1.055	2.55	15.68	0.02	-0.01
6/11/2024	17:24	192.0	1.065	1.82	20.47	-0.83	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	17:25	192.1	1.055	2.56	15.70	0.04	-0.01
6/11/2024	17:26	191.9	1.053	2.56	15.72	0.05	-0.01
6/11/2024	17:27	192.1	1.056	2.82	17.85	-0.05	0.00
6/11/2024	17:28	192.0	1.052	2.06	15.89	0.07	-0.01
6/11/2024	17:29	191.9	1.054	2.59	16.58	-0.01	-0.01
6/11/2024	17:30	191.9	1.055	2.77	17.69	0.00	0.00
6/11/2024	17:31	192.0	1.057	2.24	18.64	0.08	-0.01
6/11/2024	17:32	192.0	1.059	2.13	17.05	-0.06	-0.01
6/11/2024	17:33	192.2	1.056	2.31	18.07	-0.09	-0.01
6/11/2024	17:34	191.9	1.053	2.70	16.36	0.06	-0.01
6/11/2024	17:35	191.9	1.054	2.57	16.19	0.08	-0.01
6/11/2024	17:36	191.8	1.055	2.65	16.28	0.09	-0.01
6/11/2024	17:37	191.8	1.055	2.57	16.18	0.02	-0.01
6/11/2024	17:38	191.8	1.055	2.62	16.30	0.05	-0.01
6/11/2024	17:39	191.8	1.057	2.14	18.62	-0.02	-0.01
6/11/2024	17:41	192.0	1.055	2.12	17.85	0.13	-0.01
6/11/2024	17:42	191.9	1.055	2.16	16.94	0.10	-0.01
6/11/2024	17:43	192.0	1.061	1.63	21.65	-0.07	-0.01
6/11/2024	17:44	192.1	1.068	2.04	13.03	-0.18	-0.01
6/11/2024	17:45	192.1	1.062	1.02	4.42	-0.02	0.00
6/11/2024	17:46	191.9	1.060	0.98	2.68	-0.03	0.00
6/11/2024	17:47	191.9	1.059	0.83	2.13	0.03	0.00
6/11/2024	17:48	191.8	1.059	0.07	0.36	-0.02	0.00
6/11/2024	17:49	191.8	1.059	0.05	0.20	0.01	0.00
6/11/2024	17:50	191.8	1.058	0.34	0.47	0.00	0.00
6/11/2024	17:51	191.8	1.049	2.26	13.69	0.02	-0.01
6/11/2024	17:52	191.8	1.051	2.50	15.48	0.07	-0.01
6/11/2024	17:53	191.8	1.053	2.55	15.88	0.00	-0.01
6/11/2024	17:54	191.8	1.054	2.60	16.05	0.06	-0.01
6/11/2024	17:55	191.8	1.054	2.56	16.17	0.09	-0.01
6/11/2024	17:56	191.8	1.054	2.51	16.25	0.02	-0.01
6/11/2024	17:57	191.9	1.055	2.17	18.72	-0.01	-0.01
6/11/2024	17:58	191.9	1.058	2.23	17.51	0.15	-0.01
6/11/2024	17:59	191.9	1.055	2.29	18.65	0.18	-0.02
6/11/2024	18:00	192.0	1.053	2.21	17.63	0.03	-0.01
6/11/2024	18:02	191.9	1.054	2.18	16.74	0.06	-0.01
6/11/2024	18:03	191.8	1.052	2.15	16.56	0.12	-0.01
6/11/2024	18:04	191.8	1.053	2.62	16.40	0.07	-0.01
6/11/2024	18:05	191.8	1.054	2.74	17.55	0.00	-0.01
6/11/2024	18:06	192.0	1.056	1.65	20.73	-0.18	-0.01
6/11/2024	18:07	192.1	1.056	1.76	19.51	0.04	-0.01
6/11/2024	18:08	192.0	1.054	2.17	17.22	0.10	-0.01
6/11/2024	18:09	192.0	1.058	1.58	21.67	-0.10	-0.01
6/11/2024	18:10	192.0	1.055	1.79	18.29	0.14	-0.01
6/11/2024	18:11	192.0	1.054	2.11	17.06	0.13	-0.01
6/11/2024	18:12	191.9	1.056	2.10	16.61	0.11	-0.01
6/11/2024	18:13	191.8	1.053	2.65	17.14	0.08	0.00
6/11/2024	18:14	191.9	1.054	2.17	17.77	0.08	-0.01
6/11/2024	18:15	191.9	1.055	2.13	16.89	0.14	-0.01
6/11/2024	18:16	191.9	1.054	2.12	16.42	0.09	-0.01
6/11/2024	18:17	192.0	1.063	1.49	21.17	-0.74	0.00
6/11/2024	18:18	192.1	1.054	2.19	17.33	0.12	-0.01
6/11/2024	18:19	191.9	1.053	2.16	16.66	0.09	-0.01
6/11/2024	18:20	191.9	1.053	2.60	16.31	0.06	-0.01
6/11/2024	18:21	191.9	1.054	2.50	16.12	0.07	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/11/2024	18:22	191.9	1.056	2.13	18.69	0.04	-0.02
6/11/2024	18:24	192.0	1.059	2.13	18.14	0.05	-0.01
6/11/2024	18:25	192.0	1.053	2.18	17.17	0.09	-0.01
6/11/2024	18:26	191.9	1.052	2.10	16.54	0.12	-0.01
6/11/2024	18:27	191.9	1.062	1.79	19.97	-0.31	-0.01
6/11/2024	18:28	192.1	1.068	1.46	6.72	-0.18	-0.01
6/11/2024	18:29	192.0	1.061	0.86	2.05	-0.08	0.00
6/11/2024	18:30	191.9	1.060	0.29	0.74	0.01	0.00
6/11/2024	18:31	191.9	1.058	0.84	2.05	0.02	-0.01
6/11/2024	18:32	191.8	1.058	0.59	1.62	0.07	0.00
6/11/2024	18:33	191.8	1.059	0.67	1.59	0.02	0.00
6/11/2024	18:34	191.8	1.023	0.37	0.88	0.00	0.00
6/11/2024	18:35	191.7	1.024	0.08	0.03	0.01	0.00
6/11/2024	18:36	191.7	1.024	0.06	0.00	0.00	0.00
6/11/2024	18:37	191.7	1.024	0.07	0.00	-0.04	0.00
6/11/2024	18:39	191.6	1.024	0.00	0.00	0.00	0.00
6/11/2024	18:41	191.6	1.024	0.00	0.00	0.02	0.00
6/11/2024	18:42	191.6	1.024	0.01	0.00	-0.02	0.00
6/11/2024	18:43	191.6	1.024	-0.05	0.00	-0.03	0.00
6/11/2024	18:44	191.6	1.011	-0.04	0.00	67.79	-0.02
6/11/2024	18:45	191.6	1.012	-0.03	0.00	99.14	0.00
6/11/2024	18:46	191.5	1.012	0.04	0.00	99.20	0.00
6/11/2024	18:47	191.6	1.012	0.02	-0.01	99.29	0.00
6/11/2024	18:48	191.5	1.023	0.89	1.88	16.79	-0.01
6/12/2024	7:15	191.4	0.992	0.83	2.68	0.28	0.01
6/12/2024	7:16	191.3	0.992	0.93	2.67	0.21	0.01
6/12/2024	7:17	191.3	0.998	0.89	2.62	0.10	0.01
6/12/2024	7:18	191.4	1.033	0.51	1.38	0.04	0.01
6/12/2024	7:19	191.4	1.032	-0.04	0.19	0.06	0.01
6/12/2024	7:20	191.4	1.032	0.07	0.01	0.00	0.01
6/12/2024	7:21	191.5	1.032	0.07	0.01	0.05	0.00
6/12/2024	7:22	191.5	1.032	0.09	0.00	-0.01	0.00
6/12/2024	7:23	191.5	1.032	0.15	0.00	0.03	0.00
6/12/2024	7:24	191.5	1.032	0.15	0.00	0.05	0.00
6/12/2024	7:25	191.5	1.032	0.13	0.00	-0.01	0.00
6/12/2024	7:26	191.5	1.032	0.15	-0.01	0.08	0.01
6/12/2024	7:27	191.5	1.032	0.10	0.00	0.06	0.00
6/12/2024	7:30	191.5	1.032	0.00	0.00	0.00	0.00
6/12/2024	7:31	191.5	1.032	0.02	0.00	-0.03	0.00
6/12/2024	7:32	191.6	1.032	-0.02	0.00	0.00	0.00
6/12/2024	7:33	191.6	1.026	-0.12	0.01	37.54	-0.02
6/12/2024	7:34	191.6	1.025	-0.02	0.00	99.00	0.00
6/12/2024	7:35	191.5	1.025	0.00	0.00	99.15	0.00
6/12/2024	7:36	191.5	1.025	-0.03	0.00	99.35	-0.01
6/12/2024	7:37	191.5	1.025	0.03	0.00	99.12	-0.01
6/12/2024	7:39	191.5	1.074	0.53	1.64	14.53	-0.01
6/12/2024	7:40	191.6	1.072	0.75	2.62	0.04	0.00
6/12/2024	7:41	191.6	1.065	0.93	4.78	0.05	0.00
6/12/2024	7:42	191.6	1.070	1.19	6.15	-0.04	0.00
6/12/2024	7:43	191.6	1.071	1.15	6.35	0.00	-0.01
6/12/2024	7:44	191.6	1.055	1.61	8.40	0.03	-0.01
6/12/2024	7:45	191.8	1.058	1.96	16.98	0.07	-0.01
6/12/2024	7:46	191.9	1.066	1.57	19.54	0.08	-0.01
6/12/2024	7:47	192.0	1.083	0.74	10.18	-0.17	-0.01
6/12/2024	7:48	191.9	1.077	0.89	5.11	-0.04	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	7:49	191.8	1.073	0.92	3.08	-0.04	0.00
6/12/2024	7:50	191.8	1.069	0.70	2.36	0.00	0.00
6/12/2024	7:51	191.7	1.067	0.58	2.18	0.00	0.00
6/12/2024	7:52	191.7	1.066	0.56	2.09	-0.03	-0.01
6/12/2024	7:53	191.6	1.066	0.47	1.64	0.51	0.00
6/12/2024	7:54	191.7	1.066	-0.15	0.29	0.00	0.00
6/12/2024	7:55	191.6	1.066	-0.05	0.23	0.00	0.00
6/12/2024	7:56	191.7	1.066	-0.06	0.18	0.02	0.00
6/12/2024	7:57	191.7	1.066	-0.21	0.15	0.01	0.00
6/12/2024	7:58	191.6	1.066	-0.17	0.12	0.03	0.00
6/12/2024	7:59	191.6	1.066	-0.12	0.14	-0.02	0.00
6/12/2024	8:00	191.6	1.066	-0.14	0.17	-0.03	0.00
6/12/2024	8:02	191.6	1.066	-0.16	0.16	0.03	0.00
6/12/2024	8:03	191.6	1.066	-0.08	0.15	-0.02	0.00
6/12/2024	8:04	191.6	1.065	-0.14	0.15	-0.05	0.00
6/12/2024	8:05	191.7	1.066	-0.12	0.14	0.03	0.00
6/12/2024	8:06	191.6	1.065	-0.02	0.45	-0.04	0.00
6/12/2024	8:07	191.6	1.065	-0.16	0.13	-0.01	0.00
6/12/2024	8:08	191.6	1.065	-0.07	0.12	-0.01	0.00
6/12/2024	8:09	191.6	1.065	-0.08	0.11	-0.01	-0.01
6/12/2024	8:10	191.6	1.065	-0.12	0.10	-0.01	0.00
6/12/2024	8:11	191.6	1.065	-0.12	0.09	-0.01	0.00
6/12/2024	8:12	191.6	1.065	-0.12	0.10	0.00	0.00
6/12/2024	8:13	191.6	1.065	-0.11	0.09	0.03	0.00
6/12/2024	8:14	191.6	1.061	1.02	2.90	0.05	-0.01
6/12/2024	8:15	191.6	1.054	1.89	12.90	0.04	-0.01
6/12/2024	8:16	191.6	1.057	2.20	14.58	0.00	-0.01
6/12/2024	8:17	191.6	1.059	2.30	15.16	0.02	-0.01
6/12/2024	8:18	191.6	1.060	2.34	15.46	0.00	-0.01
6/12/2024	8:19	191.8	1.067	1.97	18.71	-0.06	-0.01
6/12/2024	8:20	191.8	1.060	2.49	16.25	0.03	-0.01
6/12/2024	8:21	191.9	1.065	1.60	20.61	0.04	-0.01
6/12/2024	8:22	191.9	1.060	1.99	16.47	0.07	-0.01
6/12/2024	8:24	191.8	1.063	2.17	17.82	-0.26	-0.01
6/12/2024	8:25	191.9	1.062	2.37	16.00	0.04	-0.01
6/12/2024	8:26	191.8	1.064	2.49	16.46	-0.01	-0.01
6/12/2024	8:27	192.1	1.064	1.61	20.08	-0.32	-0.01
6/12/2024	8:28	191.8	1.060	2.46	15.94	0.02	-0.01
6/12/2024	8:29	191.7	1.060	2.37	15.58	0.10	-0.01
6/12/2024	8:30	191.7	1.060	2.40	15.65	0.00	-0.01
6/12/2024	8:31	192.0	1.069	2.25	18.62	0.07	-0.02
6/12/2024	8:32	191.9	1.062	2.02	16.79	0.08	-0.01
6/12/2024	8:33	191.9	1.061	2.10	17.44	0.05	-0.01
6/12/2024	8:34	191.8	1.062	2.04	16.75	0.06	-0.01
6/12/2024	8:35	191.9	1.066	1.99	18.27	0.00	-0.01
6/12/2024	8:36	192.0	1.063	2.04	17.27	0.04	-0.01
6/12/2024	8:37	191.8	1.060	1.95	15.63	0.11	-0.01
6/12/2024	8:38	191.7	1.060	2.32	15.55	-0.01	-0.01
6/12/2024	8:39	191.7	1.059	2.42	15.59	0.08	-0.01
6/12/2024	8:40	191.8	1.071	1.83	20.41	-0.67	-0.02
6/12/2024	8:41	192.1	1.061	2.47	16.31	0.07	-0.01
6/12/2024	8:42	191.8	1.059	2.37	15.54	-0.01	-0.01
6/12/2024	8:43	191.9	1.062	2.62	17.36	-0.09	-0.01
6/12/2024	8:44	191.9	1.061	1.65	19.58	-0.05	-0.01
6/12/2024	8:46	192.0	1.063	1.95	17.32	0.13	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	8:47	191.9	1.061	1.98	16.85	0.08	-0.01
6/12/2024	8:48	191.8	1.060	2.05	16.46	0.04	-0.01
6/12/2024	8:49	191.8	1.065	2.04	18.54	0.01	-0.02
6/12/2024	8:50	192.0	1.061	1.97	17.55	0.04	-0.01
6/12/2024	8:51	191.9	1.060	1.95	16.80	0.04	-0.01
6/12/2024	8:52	191.8	1.060	2.02	16.11	0.05	-0.01
6/12/2024	8:53	191.8	1.064	2.00	18.51	0.09	-0.01
6/12/2024	8:54	191.9	1.066	2.18	19.47	-0.07	-0.02
6/12/2024	8:55	192.2	1.061	2.46	16.29	0.04	-0.01
6/12/2024	8:56	191.9	1.059	2.37	15.81	0.05	-0.01
6/12/2024	8:57	191.7	1.059	2.35	15.73	0.03	-0.01
6/12/2024	8:58	191.8	1.060	2.40	15.60	0.02	-0.01
6/12/2024	8:59	191.7	1.067	2.04	18.00	-0.06	-0.01
6/12/2024	9:00	192.1	1.062	1.92	19.32	0.05	-0.01
6/12/2024	9:01	192.0	1.061	1.99	17.22	0.08	-0.01
6/12/2024	9:02	191.9	1.060	1.95	16.98	0.04	-0.01
6/12/2024	9:03	191.9	1.062	2.02	16.94	0.09	-0.01
6/12/2024	9:04	191.8	1.064	1.93	16.64	0.12	-0.01
6/12/2024	9:05	191.8	1.063	1.98	17.72	0.17	-0.02
6/12/2024	9:06	191.9	1.063	1.45	20.11	-0.17	-0.01
6/12/2024	9:08	192.1	1.062	1.46	20.86	-0.14	-0.01
6/12/2024	9:09	192.0	1.061	2.05	17.55	0.04	-0.01
6/12/2024	9:10	191.9	1.060	2.00	16.30	0.12	-0.01
6/12/2024	9:11	191.8	1.061	2.39	15.65	0.09	-0.01
6/12/2024	9:12	191.7	1.061	2.54	16.73	-0.03	-0.01
6/12/2024	9:13	192.1	1.066	1.45	21.50	-0.59	0.00
6/12/2024	9:14	192.0	1.061	1.61	18.08	0.11	-0.01
6/12/2024	9:15	191.9	1.060	2.03	16.77	0.04	-0.01
6/12/2024	9:16	191.9	1.060	1.98	18.11	0.14	-0.01
6/12/2024	9:17	192.0	1.063	1.98	17.52	0.04	-0.01
6/12/2024	9:18	191.8	1.065	1.96	16.36	0.11	-0.01
6/12/2024	9:19	191.8	1.061	2.63	17.75	-0.09	-0.01
6/12/2024	9:20	191.9	1.060	1.99	18.71	0.02	-0.01
6/12/2024	9:21	191.9	1.063	1.94	16.99	0.10	-0.01
6/12/2024	9:22	192.0	1.061	1.47	20.01	-0.08	-0.01
6/12/2024	9:23	191.9	1.062	1.97	17.08	0.05	-0.01
6/12/2024	9:24	191.8	1.063	2.06	17.84	-0.07	-0.01
6/12/2024	9:25	192.0	1.061	1.88	19.21	0.05	-0.01
6/12/2024	9:26	192.0	1.061	1.99	17.55	0.02	-0.01
6/12/2024	9:27	192.0	1.064	1.62	19.86	-0.01	-0.02
6/12/2024	9:28	191.9	1.063	1.64	18.07	0.04	-0.01
6/12/2024	9:30	191.8	1.061	2.43	16.47	0.03	-0.01
6/12/2024	9:31	191.8	1.061	2.49	16.12	0.00	-0.01
6/12/2024	9:32	191.9	1.064	1.28	21.93	-0.40	-0.01
6/12/2024	9:33	192.0	1.061	1.89	18.37	0.00	-0.01
6/12/2024	9:34	192.0	1.061	1.99	16.72	0.07	-0.01
6/12/2024	9:35	191.8	1.062	1.92	15.78	0.05	-0.01
6/12/2024	9:36	191.7	1.062	1.99	18.28	-0.03	-0.02
6/12/2024	9:37	192.0	1.061	1.93	19.16	0.01	-0.01
6/12/2024	9:38	192.0	1.060	1.58	18.21	0.04	-0.01
6/12/2024	9:39	191.8	1.063	1.93	17.60	-0.02	-0.01
6/12/2024	9:40	191.9	1.060	1.91	18.12	0.04	-0.01
6/12/2024	9:41	191.9	1.061	1.94	17.95	-0.02	-0.01
6/12/2024	9:42	191.9	1.060	1.95	17.83	-0.06	-0.01
6/12/2024	9:43	191.9	1.065	1.89	18.54	-0.01	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	9:44	191.9	1.060	1.93	17.24	0.12	-0.02
6/12/2024	9:45	191.9	1.072	2.28	15.28	-0.18	-0.01
6/12/2024	9:46	192.0	1.069	0.83	3.76	-0.05	0.00
6/12/2024	9:47	191.8	1.066	0.43	1.35	-0.09	0.00
6/12/2024	9:48	191.7	1.065	0.01	0.56	-0.04	0.00
6/12/2024	9:49	191.8	1.064	-0.12	0.34	-0.04	0.00
6/12/2024	9:50	191.7	1.064	-0.07	0.31	0.01	0.00
6/12/2024	9:52	191.7	1.064	0.69	2.24	-0.02	0.00
6/12/2024	9:53	191.7	1.064	0.58	1.82	-0.07	-0.01
6/12/2024	9:54	191.8	1.064	0.55	1.81	0.00	-0.01
6/12/2024	9:55	191.7	1.054	1.72	8.70	-0.05	-0.02
6/12/2024	9:56	191.7	1.053	2.20	14.26	0.03	-0.01
6/12/2024	9:57	191.7	1.056	2.28	15.22	-0.03	-0.01
6/12/2024	9:58	191.7	1.058	2.37	15.56	0.00	-0.01
6/12/2024	9:59	191.7	1.062	1.98	17.97	-0.18	-0.01
6/12/2024	10:00	191.9	1.059	1.92	18.88	0.05	-0.01
6/12/2024	10:01	191.8	1.060	2.02	17.45	0.02	-0.01
6/12/2024	10:02	191.9	1.062	1.91	18.75	-0.08	-0.01
6/12/2024	10:03	191.9	1.061	2.03	19.04	0.03	-0.01
6/12/2024	10:04	191.9	1.060	1.88	18.07	0.00	-0.01
6/12/2024	10:05	191.9	1.058	1.92	17.17	0.01	-0.01
6/12/2024	10:06	191.9	1.062	1.93	17.48	0.05	-0.01
6/12/2024	10:07	191.8	1.057	1.95	16.55	0.09	-0.01
6/12/2024	10:08	192.0	1.062	1.44	21.63	-0.17	-0.01
6/12/2024	10:09	192.0	1.060	1.55	19.63	-0.07	-0.01
6/12/2024	10:10	191.9	1.060	2.00	17.24	0.04	-0.01
6/12/2024	10:11	191.8	1.059	1.95	16.42	0.03	-0.01
6/12/2024	10:12	191.7	1.063	2.49	17.33	-0.02	-0.01
6/12/2024	10:14	192.0	1.063	1.35	21.02	-0.19	-0.02
6/12/2024	10:15	192.0	1.062	1.58	18.83	0.05	-0.01
6/12/2024	10:16	191.9	1.059	2.44	16.33	-0.02	-0.01
6/12/2024	10:17	191.8	1.059	2.42	15.95	-0.01	-0.01
6/12/2024	10:18	191.7	1.059	2.06	18.79	0.08	-0.01
6/12/2024	10:19	192.0	1.061	1.97	19.73	-0.03	-0.01
6/12/2024	10:20	192.0	1.059	2.02	17.53	0.06	-0.01
6/12/2024	10:21	191.9	1.060	2.02	17.17	0.04	-0.01
6/12/2024	10:22	191.8	1.060	1.97	15.98	0.06	-0.01
6/12/2024	10:23	191.9	1.059	1.98	18.12	0.02	-0.01
6/12/2024	10:24	191.9	1.059	1.92	17.85	0.04	-0.01
6/12/2024	10:25	192.0	1.063	1.94	19.19	-0.02	-0.01
6/12/2024	10:26	191.9	1.059	1.93	17.48	0.02	-0.01
6/12/2024	10:27	191.9	1.061	1.44	20.83	-0.24	-0.01
6/12/2024	10:28	192.0	1.062	1.55	19.27	-0.03	-0.01
6/12/2024	10:29	191.9	1.060	1.93	17.35	0.06	-0.01
6/12/2024	10:30	191.8	1.059	1.94	16.35	0.06	-0.01
6/12/2024	10:31	191.7	1.057	2.40	15.84	0.01	-0.01
6/12/2024	10:32	191.7	1.058	2.51	17.53	-0.06	-0.01
6/12/2024	10:33	191.8	1.061	1.45	20.10	-0.14	-0.01
6/12/2024	10:34	192.0	1.061	1.34	20.27	-0.12	-0.01
6/12/2024	10:35	191.9	1.061	1.59	19.34	-0.07	-0.01
6/12/2024	10:37	191.9	1.059	1.60	17.97	0.09	-0.01
6/12/2024	10:38	191.8	1.060	1.90	16.71	0.06	-0.01
6/12/2024	10:39	191.8	1.059	2.01	16.15	0.03	-0.01
6/12/2024	10:40	191.9	1.061	1.38	21.56	-0.25	-0.02
6/12/2024	10:41	191.9	1.059	1.57	19.16	-0.02	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	10:42	191.9	1.059	1.94	17.35	0.03	-0.01
6/12/2024	10:43	191.8	1.059	1.99	16.49	0.08	-0.01
6/12/2024	10:44	191.8	1.060	2.51	17.72	-0.01	-0.01
6/12/2024	10:45	191.9	1.062	1.98	18.36	0.09	-0.02
6/12/2024	10:46	192.0	1.061	1.96	19.85	0.03	-0.02
6/12/2024	10:47	192.0	1.061	1.52	19.20	0.00	-0.01
6/12/2024	10:48	191.9	1.057	2.04	16.85	0.06	-0.01
6/12/2024	10:49	191.8	1.058	2.04	17.96	-0.13	-0.01
6/12/2024	10:50	191.9	1.058	2.01	16.78	0.05	-0.01
6/12/2024	10:51	191.7	1.060	1.98	16.09	0.09	-0.01
6/12/2024	10:52	191.8	1.061	1.38	20.80	-0.29	-0.01
6/12/2024	10:53	192.0	1.061	1.53	20.54	-0.08	-0.01
6/12/2024	10:54	192.0	1.058	1.62	17.87	0.05	-0.01
6/12/2024	10:55	191.9	1.065	2.37	16.02	0.01	-0.01
6/12/2024	10:56	191.8	1.070	1.38	7.99	-0.20	-0.01
6/12/2024	10:57	191.7	1.065	0.91	4.08	0.01	-0.01
6/12/2024	10:59	191.7	1.064	0.50	2.89	0.01	0.00
6/12/2024	11:00	191.7	1.063	0.48	2.41	0.12	0.00
6/12/2024	11:01	191.7	1.063	0.49	2.09	0.10	0.00
6/12/2024	11:02	191.7	1.063	-0.09	0.40	0.03	0.00
6/12/2024	11:03	191.7	1.063	-0.17	0.23	0.02	0.00
6/12/2024	11:04	191.7	1.063	-0.15	0.13	-0.05	0.00
6/12/2024	11:05	191.7	1.063	-0.14	0.06	0.01	0.00
6/12/2024	11:06	191.7	1.055	1.03	4.81	0.16	-0.01
6/12/2024	11:07	191.7	1.052	2.18	14.19	0.02	-0.01
6/12/2024	11:08	191.7	1.054	2.27	15.15	-0.02	-0.01
6/12/2024	11:09	191.7	1.056	2.39	15.39	0.01	-0.01
6/12/2024	11:10	191.7	1.058	2.40	15.67	-0.01	-0.01
6/12/2024	11:11	191.9	1.064	1.37	21.73	-0.37	-0.01
6/12/2024	11:12	191.9	1.057	2.37	15.84	0.00	-0.01
6/12/2024	11:13	191.8	1.058	2.56	17.73	-0.10	-0.01
6/12/2024	11:14	191.8	1.057	1.97	16.17	0.04	-0.01
6/12/2024	11:15	191.9	1.056	2.01	18.18	0.02	-0.01
6/12/2024	11:16	191.8	1.059	2.00	18.26	-0.21	-0.02
6/12/2024	11:17	192.0	1.060	1.96	19.29	-0.02	-0.02
6/12/2024	11:18	191.9	1.058	1.63	17.94	0.07	-0.01
6/12/2024	11:20	191.8	1.058	2.44	16.47	0.01	-0.01
6/12/2024	11:21	191.9	1.060	2.50	17.19	-0.07	-0.01
6/12/2024	11:22	191.9	1.064	1.41	20.99	-0.13	-0.01
6/12/2024	11:23	191.9	1.060	1.54	19.53	-0.04	-0.01
6/12/2024	11:24	191.9	1.058	1.65	18.64	0.04	-0.01
6/12/2024	11:25	191.9	1.057	1.97	16.89	0.06	-0.01
6/12/2024	11:26	191.8	1.059	2.04	18.07	0.03	-0.01
6/12/2024	11:27	191.9	1.060	2.35	15.89	-0.04	-0.01
6/12/2024	11:28	191.8	1.055	2.35	15.90	-0.02	-0.01
6/12/2024	11:29	191.8	1.060	1.42	20.83	-0.24	-0.01
6/12/2024	11:30	192.0	1.059	1.51	20.02	-0.05	-0.01
6/12/2024	11:31	192.0	1.061	1.61	19.74	0.06	-0.01
6/12/2024	11:32	192.0	1.059	1.63	19.31	-0.02	-0.01
6/12/2024	11:33	192.0	1.060	1.99	17.28	0.04	-0.01
6/12/2024	11:34	191.9	1.058	1.90	16.43	0.01	-0.01
6/12/2024	11:35	192.0	1.061	1.14	24.47	-0.47	0.00
6/12/2024	11:36	192.2	1.059	2.40	16.28	0.00	-0.01
6/12/2024	11:37	191.9	1.058	2.40	15.84	-0.01	-0.01
6/12/2024	11:38	191.8	1.057	2.39	15.84	0.00	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	11:39	191.8	1.059	2.41	15.80	0.03	-0.01
6/12/2024	11:40	191.8	1.059	2.38	15.76	0.08	-0.01
6/12/2024	11:42	191.9	1.060	1.18	21.44	-0.34	-0.01
6/12/2024	11:43	192.0	1.059	1.57	19.98	-0.01	-0.01
6/12/2024	11:44	191.9	1.060	1.60	17.90	0.14	-0.01
6/12/2024	11:45	191.9	1.057	2.40	16.45	0.01	-0.01
6/12/2024	11:46	191.9	1.061	1.43	20.00	0.00	-0.01
6/12/2024	11:47	192.0	1.058	1.55	18.25	0.08	-0.01
6/12/2024	11:48	192.0	1.060	2.04	19.68	0.05	-0.02
6/12/2024	11:49	192.0	1.059	1.58	18.25	0.05	-0.01
6/12/2024	11:50	191.9	1.056	2.42	16.65	0.01	-0.01
6/12/2024	11:51	191.8	1.058	2.01	18.00	-0.09	-0.01
6/12/2024	11:52	192.0	1.060	2.08	18.87	0.08	-0.02
6/12/2024	11:53	191.9	1.058	1.96	17.17	0.06	-0.01
6/12/2024	11:54	191.9	1.055	2.03	16.37	0.10	-0.01
6/12/2024	11:55	191.8	1.057	2.51	17.10	-0.05	-0.01
6/12/2024	11:56	192.0	1.058	2.00	18.90	-0.01	-0.01
6/12/2024	11:57	191.9	1.063	2.00	20.34	0.00	-0.02
6/12/2024	11:58	192.2	1.059	1.65	19.02	-0.08	-0.01
6/12/2024	11:59	191.9	1.055	2.43	16.60	-0.07	-0.01
6/12/2024	12:00	191.9	1.057	2.47	16.46	-0.03	-0.01
6/12/2024	12:01	191.8	1.056	2.55	16.76	-0.07	-0.01
6/12/2024	12:02	191.9	1.058	1.53	19.67	-0.04	-0.01
6/12/2024	12:04	191.9	1.057	1.67	18.19	0.02	-0.01
6/12/2024	12:05	191.9	1.055	2.44	16.65	-0.02	-0.01
6/12/2024	12:06	192.0	1.061	1.41	21.99	-0.29	-0.02
6/12/2024	12:07	192.0	1.059	1.91	18.58	0.02	-0.01
6/12/2024	12:08	191.9	1.056	1.99	17.33	0.09	-0.02
6/12/2024	12:09	191.9	1.057	1.53	19.86	-0.15	-0.01
6/12/2024	12:10	191.9	1.059	1.90	17.51	0.02	-0.01
6/12/2024	12:11	191.8	1.057	1.97	16.99	0.06	-0.01
6/12/2024	12:12	191.8	1.055	2.03	16.79	0.04	-0.01
6/12/2024	12:13	191.7	1.070	1.67	11.09	-0.16	-0.01
6/12/2024	12:14	191.7	1.067	0.89	4.33	-0.06	0.00
6/12/2024	12:15	191.7	1.054	1.18	5.63	-0.02	-0.01
6/12/2024	12:16	191.7	1.067	1.11	6.05	-0.15	0.00
6/12/2024	12:17	191.7	1.063	0.53	1.56	-0.11	0.00
6/12/2024	12:18	191.7	1.062	0.08	0.75	-0.03	0.00
6/12/2024	12:19	191.7	1.061	-0.05	0.46	-0.06	0.00
6/12/2024	12:20	191.7	1.061	0.29	0.97	-0.08	-0.01
6/12/2024	12:21	191.7	1.061	0.55	1.78	-0.06	-0.01
6/12/2024	12:22	191.7	1.060	0.48	1.66	-0.06	-0.01
6/12/2024	12:23	191.7	1.061	0.43	1.58	-0.07	-0.01
6/12/2024	12:24	191.7	1.051	1.78	8.74	-0.06	-0.02
6/12/2024	12:26	191.7	1.050	2.32	14.65	0.05	-0.02
6/12/2024	12:27	191.7	1.053	2.29	15.30	0.07	-0.01
6/12/2024	12:28	191.7	1.054	2.30	15.56	0.00	-0.01
6/12/2024	12:29	191.6	1.055	2.40	15.74	0.03	-0.01
6/12/2024	12:30	191.7	1.062	1.46	21.21	-0.37	-0.01
6/12/2024	12:31	192.0	1.058	1.46	19.72	-0.06	-0.01
6/12/2024	12:32	192.0	1.056	1.58	18.71	0.00	-0.01
6/12/2024	12:33	191.9	1.056	2.02	18.12	0.07	-0.01
6/12/2024	12:34	191.9	1.059	1.90	18.46	0.05	-0.02
6/12/2024	12:35	191.9	1.057	1.94	17.77	0.04	-0.01
6/12/2024	12:36	191.9	1.055	2.02	17.38	0.03	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	12:37	191.9	1.057	2.03	17.29	0.08	-0.01
6/12/2024	12:38	191.8	1.054	2.01	16.40	0.06	-0.02
6/12/2024	12:39	191.7	1.054	2.37	16.02	0.00	-0.01
6/12/2024	12:40	191.9	1.061	1.05	24.72	-0.74	-0.02
6/12/2024	12:41	192.3	1.059	2.06	18.68	0.01	-0.02
6/12/2024	12:42	191.9	1.055	2.41	16.01	0.02	-0.01
6/12/2024	12:43	191.8	1.054	2.44	16.00	-0.05	-0.01
6/12/2024	12:44	191.8	1.055	2.35	15.91	0.00	-0.01
6/12/2024	12:45	191.7	1.057	2.31	15.82	0.02	-0.01
6/12/2024	12:46	191.8	1.060	1.37	21.70	-0.77	-0.02
6/12/2024	12:48	192.3	1.059	1.47	22.09	-0.27	-0.01
6/12/2024	12:49	192.0	1.055	2.40	16.05	0.04	-0.01
6/12/2024	12:50	191.9	1.054	2.44	15.95	0.03	-0.01
6/12/2024	12:51	191.8	1.054	2.40	15.94	0.04	-0.01
6/12/2024	12:52	191.8	1.060	1.62	20.06	-0.25	-0.02
6/12/2024	12:53	192.2	1.058	1.56	20.42	-0.20	-0.01
6/12/2024	12:54	192.1	1.069	1.69	10.77	-0.24	-0.01
6/12/2024	12:55	192.0	1.062	0.73	2.31	-0.10	0.00
6/12/2024	12:56	191.8	1.061	0.47	1.42	-0.06	0.00
6/12/2024	12:57	191.8	1.060	0.22	0.94	-0.08	0.00
6/12/2024	12:58	191.8	1.060	0.31	1.04	-0.11	0.00
6/12/2024	12:59	191.8	1.060	0.01	0.51	0.02	0.00
6/12/2024	13:00	191.7	1.059	-0.09	0.45	0.00	-0.01
6/12/2024	13:01	191.7	1.059	-0.01	0.49	-0.01	0.00
6/12/2024	13:02	191.7	1.051	0.19	0.82	-0.06	0.00
6/12/2024	13:03	191.7	1.027	-0.04	0.66	-0.04	0.00
6/12/2024	13:04	191.6	1.026	-0.14	0.06	-0.09	0.00
6/12/2024	13:05	191.6	1.026	-0.03	0.01	0.02	0.00
6/12/2024	13:06	191.6	1.026	-0.07	0.01	0.00	0.00
6/12/2024	13:09	191.6	1.026	0.00	0.00	0.00	0.00
6/12/2024	13:10	191.6	1.026	0.01	0.00	0.03	0.00
6/12/2024	13:11	191.6	1.026	-0.01	0.00	0.01	0.00
6/12/2024	13:12	191.6	1.013	-0.03	0.01	49.01	-0.02
6/12/2024	13:13	191.6	1.010	0.03	0.00	99.31	0.00
6/12/2024	13:14	191.6	1.010	-0.03	0.00	99.39	0.00
6/12/2024	13:15	191.6	1.010	0.05	0.00	99.40	0.00
6/12/2024	13:16	191.5	1.010	0.08	0.00	99.23	0.00
6/12/2024	13:17	191.5	1.010	-0.03	0.00	99.16	0.00
6/12/2024	13:18	191.6	1.032	0.74	1.63	30.46	-0.01
6/12/2024	13:19	191.6	1.046	1.54	6.62	0.05	-0.01
6/12/2024	13:20	191.7	1.050	2.30	14.38	0.04	-0.01
6/12/2024	13:21	191.9	1.054	2.03	18.00	-0.06	-0.01
6/12/2024	13:23	192.1	1.057	2.01	19.56	-0.04	-0.02
6/12/2024	13:24	192.0	1.059	1.66	18.11	0.07	-0.01
6/12/2024	13:25	192.0	1.060	2.05	18.95	0.05	-0.01
6/12/2024	13:26	192.0	1.058	2.09	17.58	0.08	-0.01
6/12/2024	13:27	192.0	1.058	1.59	21.09	-0.03	-0.01
6/12/2024	13:28	192.0	1.059	1.75	20.03	0.02	-0.01
6/12/2024	13:29	192.1	1.059	1.74	18.56	0.08	-0.01
6/12/2024	13:30	191.9	1.056	2.17	16.98	0.05	-0.01
6/12/2024	13:31	191.8	1.056	2.54	16.30	0.04	-0.01
6/12/2024	13:32	191.8	1.055	2.51	16.22	0.02	-0.01
6/12/2024	13:33	191.9	1.062	1.62	21.25	-0.32	-0.01
6/12/2024	13:34	192.1	1.059	1.57	21.07	-0.04	-0.01
6/12/2024	13:35	192.1	1.061	1.66	18.35	0.08	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	13:36	192.0	1.055	2.13	16.94	0.06	-0.01
6/12/2024	13:37	191.9	1.056	2.16	16.35	0.03	-0.01
6/12/2024	13:38	191.9	1.059	1.61	20.80	-0.35	-0.01
6/12/2024	13:39	192.1	1.056	1.70	19.13	0.01	-0.01
6/12/2024	13:40	192.0	1.055	2.13	17.89	0.15	-0.01
6/12/2024	13:41	192.0	1.057	2.12	16.97	0.04	-0.01
6/12/2024	13:42	192.0	1.057	2.18	16.98	0.08	-0.01
6/12/2024	13:43	191.9	1.057	2.16	16.18	0.05	-0.01
6/12/2024	13:45	191.8	1.059	2.51	16.14	0.02	-0.01
6/12/2024	13:46	192.0	1.060	1.55	21.66	-0.20	-0.01
6/12/2024	13:47	192.1	1.057	1.64	19.93	0.01	-0.01
6/12/2024	13:48	192.0	1.056	2.19	17.38	0.08	-0.01
6/12/2024	13:49	191.9	1.056	2.17	16.62	0.04	-0.01
6/12/2024	13:50	191.8	1.060	2.15	18.48	0.13	0.00
6/12/2024	13:51	192.0	1.057	2.19	18.53	0.06	-0.01
6/12/2024	13:52	191.9	1.055	2.10	17.01	0.10	-0.01
6/12/2024	13:53	191.9	1.056	2.15	18.73	-0.07	-0.01
6/12/2024	13:54	191.9	1.057	2.07	17.09	0.12	-0.01
6/12/2024	13:55	191.8	1.055	2.11	16.42	0.04	-0.01
6/12/2024	13:56	191.8	1.058	1.49	21.02	-0.45	-0.01
6/12/2024	13:57	192.1	1.058	1.70	18.80	0.07	-0.01
6/12/2024	13:58	192.0	1.056	2.10	17.33	0.08	-0.01
6/12/2024	13:59	191.8	1.056	2.07	16.48	0.04	-0.01
6/12/2024	14:00	191.9	1.061	1.57	21.63	-0.51	-0.01
6/12/2024	14:01	192.2	1.060	1.55	21.66	-0.07	-0.01
6/12/2024	14:02	192.1	1.055	2.21	16.75	0.05	-0.01
6/12/2024	14:03	191.9	1.054	2.12	16.32	0.08	-0.01
6/12/2024	14:04	191.8	1.054	2.56	16.29	-0.01	-0.01
6/12/2024	14:05	191.8	1.055	2.50	16.31	0.04	-0.01
6/12/2024	14:07	191.8	1.055	2.57	16.21	0.03	-0.01
6/12/2024	14:08	191.7	1.055	2.60	16.24	0.00	-0.01
6/12/2024	14:09	191.7	1.057	2.56	16.30	0.02	-0.01
6/12/2024	14:10	191.9	1.060	1.45	22.83	-0.28	-0.01
6/12/2024	14:11	192.1	1.057	1.55	20.50	-0.06	-0.01
6/12/2024	14:12	192.0	1.056	1.78	18.48	0.08	-0.01
6/12/2024	14:13	191.9	1.055	2.21	17.04	0.06	-0.01
6/12/2024	14:14	192.0	1.061	1.56	21.22	-0.12	-0.01
6/12/2024	14:15	192.0	1.057	1.78	18.22	0.06	-0.01
6/12/2024	14:16	191.9	1.055	2.13	17.36	0.10	-0.01
6/12/2024	14:17	191.9	1.055	2.13	16.64	0.13	-0.01
6/12/2024	14:18	191.9	1.060	1.50	22.16	-0.43	-0.01
6/12/2024	14:19	192.2	1.056	2.64	17.10	0.02	-0.01
6/12/2024	14:20	191.9	1.054	2.10	16.31	-0.01	-0.01
6/12/2024	14:21	191.9	1.055	2.16	18.08	0.03	-0.01
6/12/2024	14:22	191.9	1.056	2.58	16.33	0.06	-0.01
6/12/2024	14:23	191.9	1.061	1.63	21.68	-0.05	-0.01
6/12/2024	14:24	192.0	1.057	1.71	19.91	0.00	-0.01
6/12/2024	14:25	192.1	1.054	2.11	17.27	0.11	-0.01
6/12/2024	14:26	191.9	1.054	2.17	17.26	0.07	-0.01
6/12/2024	14:27	191.9	1.054	2.20	16.32	0.07	-0.01
6/12/2024	14:29	191.8	1.055	2.65	17.38	0.01	-0.01
6/12/2024	14:30	191.8	1.056	2.15	16.34	0.10	-0.01
6/12/2024	14:31	191.8	1.055	2.11	17.90	0.12	-0.01
6/12/2024	14:32	191.9	1.069	1.78	13.00	-0.04	-0.01
6/12/2024	14:33	191.9	1.063	1.08	4.82	-0.07	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	14:34	191.8	1.061	0.68	2.04	-0.04	0.00
6/12/2024	14:35	191.8	1.060	0.39	1.07	0.02	0.00
6/12/2024	14:36	191.8	1.059	0.62	1.45	-0.04	0.00
6/12/2024	14:37	191.7	1.060	0.40	1.09	-0.07	0.00
6/12/2024	14:38	191.7	1.059	-0.01	0.31	0.02	0.00
6/12/2024	14:39	191.7	1.059	0.75	2.09	0.02	0.00
6/12/2024	14:40	191.7	1.059	0.53	1.43	-0.02	0.00
6/12/2024	14:41	191.7	1.059	-0.09	0.18	0.03	0.00
6/12/2024	14:42	191.7	1.059	0.01	0.10	0.02	0.00
6/12/2024	14:43	191.7	1.059	-0.05	0.07	-0.03	0.00
6/12/2024	14:44	191.7	1.050	1.13	10.12	0.07	-0.01
6/12/2024	14:45	191.7	1.049	2.46	15.26	0.02	-0.01
6/12/2024	14:46	191.7	1.052	2.50	15.95	0.04	-0.01
6/12/2024	14:47	191.7	1.053	2.57	16.12	0.04	-0.01
6/12/2024	14:48	191.7	1.053	2.51	16.14	0.05	-0.01
6/12/2024	14:49	191.7	1.054	2.49	16.24	0.01	-0.01
6/12/2024	14:51	191.8	1.061	1.40	21.97	-0.56	-0.02
6/12/2024	14:52	192.0	1.054	2.14	17.66	0.12	-0.01
6/12/2024	14:53	191.8	1.053	2.15	16.38	0.13	-0.01
6/12/2024	14:54	191.8	1.054	2.52	16.34	0.05	-0.01
6/12/2024	14:55	191.7	1.054	2.49	16.25	-0.01	-0.01
6/12/2024	14:56	191.7	1.052	2.48	16.28	0.01	-0.01
6/12/2024	14:57	191.8	1.056	2.17	18.59	0.09	-0.01
6/12/2024	14:58	192.2	1.058	1.45	23.49	-0.35	-0.01
6/12/2024	14:59	192.0	1.054	2.49	16.14	0.01	-0.01
6/12/2024	15:00	192.0	1.059	1.52	21.55	-0.26	-0.01
6/12/2024	15:01	192.1	1.056	1.82	18.15	0.02	-0.01
6/12/2024	15:02	191.9	1.052	2.54	16.22	-0.01	-0.01
6/12/2024	15:03	191.8	1.052	2.46	16.12	0.04	-0.01
6/12/2024	15:04	191.8	1.052	2.19	18.04	0.03	-0.01
6/12/2024	15:05	192.1	1.057	2.09	21.26	0.14	-0.03
6/12/2024	15:06	192.1	1.054	2.04	17.39	0.11	-0.01
6/12/2024	15:07	191.9	1.052	2.15	16.19	0.04	-0.01
6/12/2024	15:08	191.8	1.054	2.51	16.12	0.05	-0.01
6/12/2024	15:09	191.8	1.052	2.53	16.12	0.05	-0.01
6/12/2024	15:10	191.8	1.052	2.52	16.14	0.04	-0.01
6/12/2024	15:11	191.8	1.053	2.44	16.06	0.09	-0.01
6/12/2024	15:13	191.9	1.055	1.49	21.62	-0.19	-0.01
6/12/2024	15:14	192.1	1.058	1.60	20.38	-0.03	-0.01
6/12/2024	15:15	192.0	1.055	1.65	19.99	0.02	-0.01
6/12/2024	15:16	192.0	1.054	2.13	17.61	0.06	-0.01
6/12/2024	15:17	191.9	1.053	2.11	17.60	0.10	-0.01
6/12/2024	15:18	192.0	1.054	1.59	20.12	-0.02	-0.01
6/12/2024	15:19	192.0	1.057	1.76	18.91	0.03	-0.01
6/12/2024	15:20	191.9	1.054	2.08	17.57	0.08	-0.01
6/12/2024	15:21	191.9	1.054	2.07	18.85	0.07	-0.01
6/12/2024	15:22	192.0	1.053	2.11	17.43	0.07	-0.01
6/12/2024	15:23	191.9	1.051	2.11	16.47	0.10	-0.01
6/12/2024	15:24	192.1	1.058	1.64	21.86	-0.46	-0.01
6/12/2024	15:25	192.0	1.052	2.57	16.97	0.03	0.00
6/12/2024	15:26	191.9	1.052	2.14	15.97	0.07	-0.01
6/12/2024	15:27	191.8	1.052	2.53	16.05	0.07	-0.01
6/12/2024	15:28	191.8	1.050	2.54	16.08	0.06	-0.01
6/12/2024	15:29	191.8	1.051	2.46	16.12	0.06	-0.01
6/12/2024	15:30	192.1	1.060	2.14	24.78	-0.39	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	15:31	192.1	1.053	2.50	16.03	0.04	-0.01
6/12/2024	15:32	191.9	1.051	2.49	16.05	0.06	-0.01
6/12/2024	15:33	191.8	1.052	2.54	16.13	0.05	-0.01
6/12/2024	15:34	191.8	1.053	2.68	16.78	-0.03	-0.01
6/12/2024	15:36	192.2	1.060	2.08	24.12	-0.37	-0.01
6/12/2024	15:37	192.1	1.052	2.55	16.78	0.01	-0.01
6/12/2024	15:38	191.9	1.051	2.07	16.07	0.09	-0.01
6/12/2024	15:39	191.8	1.052	2.48	15.92	0.09	-0.01
6/12/2024	15:40	191.8	1.055	1.68	19.90	-0.06	-0.01
6/12/2024	15:41	192.1	1.055	1.69	18.61	0.04	-0.01
6/12/2024	15:42	192.0	1.051	2.14	17.16	0.14	-0.01
6/12/2024	15:43	191.9	1.055	1.56	21.71	-0.21	-0.01
6/12/2024	15:44	192.3	1.054	1.67	19.58	-0.12	-0.01
6/12/2024	15:45	191.9	1.052	2.53	15.90	0.05	-0.01
6/12/2024	15:46	191.8	1.055	2.66	17.47	-0.05	0.00
6/12/2024	15:47	192.0	1.051	2.13	16.52	0.06	-0.01
6/12/2024	15:48	191.8	1.050	2.57	16.00	0.07	-0.01
6/12/2024	15:49	191.8	1.060	2.29	14.56	-0.08	-0.01
6/12/2024	15:50	191.7	1.063	1.19	5.91	-0.12	0.00
6/12/2024	15:51	191.8	1.059	0.93	2.59	-0.09	0.00
6/12/2024	15:52	191.8	1.058	0.55	1.36	-0.09	0.00
6/12/2024	15:53	191.7	1.057	0.22	0.73	-0.02	0.00
6/12/2024	15:54	191.8	1.056	-0.02	0.35	0.06	0.00
6/12/2024	15:55	191.8	1.056	-0.03	0.23	-0.02	0.00
6/12/2024	15:56	191.7	1.056	-0.07	0.12	-0.01	0.00
6/12/2024	15:58	191.7	1.056	0.01	0.09	-0.02	0.00
6/12/2024	15:59	191.8	1.055	0.56	1.41	-0.06	-0.01
6/12/2024	16:00	191.7	1.056	0.07	0.52	0.01	0.00
6/12/2024	16:01	191.7	1.056	0.10	0.49	0.04	0.00
6/12/2024	16:02	191.7	1.052	0.82	2.18	0.04	-0.01
6/12/2024	16:03	191.7	1.046	2.13	13.87	0.03	-0.01
6/12/2024	16:04	191.7	1.048	2.20	15.32	-0.01	-0.01
6/12/2024	16:05	191.7	1.049	2.47	15.72	0.02	-0.01
6/12/2024	16:06	191.7	1.051	2.51	15.85	0.04	-0.01
6/12/2024	16:07	191.7	1.051	2.53	15.93	0.07	-0.01
6/12/2024	16:08	191.7	1.052	2.57	16.57	-0.09	-0.01
6/12/2024	16:09	192.0	1.056	1.70	20.83	-0.18	-0.01
6/12/2024	16:10	191.8	1.051	2.53	16.01	0.05	-0.01
6/12/2024	16:11	191.7	1.053	2.24	18.52	0.03	-0.01
6/12/2024	16:12	191.9	1.052	2.13	19.08	0.06	-0.01
6/12/2024	16:13	192.0	1.052	2.17	16.94	0.06	-0.01
6/12/2024	16:14	191.8	1.051	2.08	16.13	0.12	-0.01
6/12/2024	16:15	191.7	1.049	2.52	16.13	-0.02	-0.01
6/12/2024	16:16	191.7	1.050	2.57	16.27	0.06	-0.01
6/12/2024	16:17	192.1	1.057	2.15	24.44	-0.41	-0.01
6/12/2024	16:18	192.0	1.052	2.47	16.08	0.06	-0.01
6/12/2024	16:20	191.8	1.053	2.55	16.93	0.03	0.00
6/12/2024	16:21	191.8	1.050	2.12	16.05	0.04	-0.01
6/12/2024	16:22	191.8	1.053	1.73	20.02	-0.14	-0.01
6/12/2024	16:23	192.0	1.052	2.14	16.78	0.06	-0.01
6/12/2024	16:24	191.7	1.053	2.18	18.00	-0.05	-0.01
6/12/2024	16:25	191.9	1.054	1.96	20.33	-0.01	-0.02
6/12/2024	16:26	192.0	1.052	1.68	19.71	-0.03	-0.01
6/12/2024	16:27	192.0	1.053	2.17	17.61	0.04	-0.01
6/12/2024	16:28	191.8	1.050	2.17	16.52	0.08	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	16:29	191.9	1.054	1.65	21.64	-0.32	-0.01
6/12/2024	16:30	191.9	1.051	2.46	15.99	-0.01	-0.01
6/12/2024	16:31	191.8	1.050	2.50	15.91	0.03	-0.01
6/12/2024	16:32	191.7	1.050	2.53	15.99	0.07	-0.01
6/12/2024	16:33	191.7	1.049	2.52	15.95	0.01	-0.01
6/12/2024	16:34	191.7	1.052	2.69	17.33	-0.07	-0.01
6/12/2024	16:35	192.0	1.056	1.33	23.98	-0.41	-0.01
6/12/2024	16:36	192.1	1.052	2.14	19.45	0.00	-0.01
6/12/2024	16:37	191.9	1.050	2.48	16.00	0.06	-0.01
6/12/2024	16:38	191.8	1.050	2.47	15.95	0.01	-0.01
6/12/2024	16:39	191.7	1.052	2.52	15.88	0.05	-0.01
6/12/2024	16:40	191.7	1.049	2.52	15.95	0.06	-0.01
6/12/2024	16:42	191.7	1.050	2.54	15.93	0.04	-0.01
6/12/2024	16:43	191.9	1.056	1.27	24.30	-0.63	-0.01
6/12/2024	16:44	192.2	1.054	1.45	22.74	-0.37	-0.01
6/12/2024	16:45	192.1	1.054	2.64	16.99	0.03	0.00
6/12/2024	16:46	191.8	1.048	2.05	16.04	0.04	-0.01
6/12/2024	16:47	191.8	1.049	2.48	15.95	0.06	-0.01
6/12/2024	16:48	191.8	1.052	1.66	21.08	-0.24	-0.01
6/12/2024	16:49	191.9	1.051	2.47	15.88	0.03	-0.01
6/12/2024	16:50	191.8	1.051	2.61	17.27	0.06	-0.01
6/12/2024	16:51	191.8	1.051	2.12	17.03	0.03	-0.01
6/12/2024	16:52	191.9	1.050	2.12	17.66	0.02	-0.01
6/12/2024	16:53	191.7	1.050	2.14	15.88	0.10	-0.01
6/12/2024	16:54	192.0	1.054	1.33	24.31	-0.47	-0.01
6/12/2024	16:55	192.1	1.051	2.09	17.85	0.07	-0.01
6/12/2024	16:56	191.9	1.053	2.08	16.68	0.09	-0.01
6/12/2024	16:57	191.8	1.048	2.09	16.04	0.06	-0.01
6/12/2024	16:58	191.7	1.048	2.49	15.90	-0.03	-0.01
6/12/2024	16:59	191.9	1.050	2.22	18.73	0.02	-0.01
6/12/2024	17:00	191.8	1.053	2.08	18.76	0.05	-0.01
6/12/2024	17:01	192.0	1.051	2.10	17.11	0.06	-0.01
6/12/2024	17:02	191.9	1.051	2.13	17.26	0.13	-0.01
6/12/2024	17:04	192.0	1.052	1.58	21.83	-0.14	-0.01
6/12/2024	17:05	192.2	1.057	1.67	20.43	-0.21	-0.01
6/12/2024	17:06	191.9	1.059	1.02	4.15	-0.13	0.00
6/12/2024	17:07	191.9	1.055	0.43	1.17	-0.04	0.00
6/12/2024	17:08	191.8	1.054	0.35	0.94	-0.03	0.00
6/12/2024	17:09	191.8	1.054	0.47	1.18	-0.10	0.00
6/12/2024	17:10	191.8	1.054	0.07	0.41	-0.04	0.00
6/12/2024	17:11	191.7	1.054	0.01	0.30	-0.03	0.00
6/12/2024	17:12	191.7	1.054	-0.04	0.19	-0.02	0.00
6/12/2024	17:13	191.7	1.054	-0.02	0.13	0.00	0.00
6/12/2024	17:14	191.7	1.054	-0.04	0.11	-0.03	0.00
6/12/2024	17:15	191.7	1.054	-0.06	0.10	0.02	0.00
6/12/2024	17:16	191.7	1.054	-0.04	0.10	0.01	0.00
6/12/2024	17:17	191.7	1.054	-0.04	0.10	-0.03	0.00
6/12/2024	17:18	191.7	1.053	-0.01	0.09	-0.02	0.00
6/12/2024	17:19	191.7	1.054	-0.01	0.04	0.02	0.00
6/12/2024	17:20	191.7	1.054	-0.05	0.03	0.03	0.00
6/12/2024	17:21	191.8	1.054	0.01	0.03	-0.03	0.00
6/12/2024	17:22	191.7	1.053	-0.03	0.03	-0.01	0.00
6/12/2024	17:23	191.7	1.053	0.00	0.03	0.05	0.00
6/12/2024	17:25	191.7	1.051	0.77	1.08	-0.02	-0.01
6/12/2024	17:26	191.7	1.043	2.09	13.05	0.07	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/12/2024	17:27	191.7	1.045	2.19	14.68	0.00	-0.01
6/12/2024	17:28	191.7	1.047	2.41	15.27	0.11	-0.01
6/12/2024	17:29	191.7	1.049	2.09	18.36	0.01	-0.01
6/12/2024	17:30	191.9	1.051	2.49	16.32	-0.01	-0.01
6/12/2024	17:31	191.8	1.050	2.43	15.42	0.04	-0.01
6/12/2024	17:32	191.8	1.053	2.72	17.92	-0.05	-0.01
6/12/2024	17:33	191.9	1.049	2.06	16.62	0.11	-0.01
6/12/2024	17:34	191.8	1.049	2.08	18.24	0.08	-0.01
6/12/2024	17:35	191.9	1.049	2.07	17.39	0.05	-0.01
6/12/2024	17:36	191.8	1.049	2.04	15.70	0.14	-0.01
6/12/2024	17:37	192.0	1.055	1.30	23.86	-0.49	-0.01
6/12/2024	17:38	192.1	1.049	2.56	16.78	0.01	-0.01
6/12/2024	17:39	191.9	1.048	2.12	16.45	0.03	-0.01
6/12/2024	17:40	191.9	1.050	2.57	16.81	0.05	-0.01
6/12/2024	17:41	191.8	1.047	2.05	15.59	0.13	-0.01
6/12/2024	17:42	191.7	1.049	2.42	15.50	0.01	-0.01
6/12/2024	17:43	191.7	1.049	2.15	18.06	-0.01	-0.01
6/12/2024	17:44	192.2	1.053	1.46	22.37	-0.25	-0.01
6/12/2024	17:45	192.0	1.050	2.42	15.54	0.06	-0.01
6/12/2024	17:47	192.0	1.064	1.66	7.55	-0.28	-0.01
6/12/2024	17:48	191.9	1.054	0.69	1.64	-0.07	0.00
6/12/2024	17:49	191.8	1.054	0.32	0.93	-0.03	0.00
6/12/2024	17:50	191.7	1.053	0.17	0.62	-0.08	0.00
6/12/2024	17:51	191.8	1.053	0.38	0.98	0.00	0.00
6/12/2024	17:52	191.8	1.053	0.26	0.96	0.04	0.00
6/12/2024	17:53	191.7	1.053	0.27	0.98	0.00	0.00
6/12/2024	17:54	191.8	1.038	0.72	1.83	-0.05	0.00
6/12/2024	17:55	191.7	1.022	0.30	1.04	-0.07	0.00
6/12/2024	17:56	191.7	1.022	0.06	0.34	0.00	0.00
6/12/2024	17:57	191.6	1.022	-0.07	0.26	-0.07	0.00
6/12/2024	17:58	191.6	1.022	0.04	0.21	-0.03	0.00
6/12/2024	17:59	191.7	1.022	0.03	0.01	0.07	0.00
6/12/2024	18:00	191.6	1.022	0.06	0.00	-0.01	0.00
6/12/2024	18:01	191.6	1.022	0.06	0.00	-0.08	0.00
6/12/2024	18:03	191.6	1.022	0.00	0.00	0.00	0.00
6/12/2024	18:05	191.6	1.022	0.01	0.00	-0.04	0.00
6/12/2024	18:06	191.7	1.022	0.06	0.00	0.01	0.00
6/12/2024	18:07	191.6	1.022	-0.04	-0.01	0.01	0.00
6/12/2024	18:08	191.7	1.017	0.00	0.00	39.73	-0.02
6/12/2024	18:09	191.6	1.016	0.03	0.00	99.15	-0.01
6/12/2024	18:10	191.7	1.016	-0.01	0.00	99.11	0.00
6/12/2024	18:11	191.6	1.016	0.01	0.00	99.05	0.00
6/12/2024	18:12	191.6	1.016	0.00	-0.01	99.03	0.00
6/12/2024	18:13	191.6	1.015	-0.01	0.00	14.28	-0.01
6/12/2024	18:14	191.6	1.015	0.04	0.00	-0.02	0.00
6/12/2024	18:15	191.6	0.991	0.07	0.00	0.01	0.00
6/12/2024	18:16	191.6	0.988	0.05	0.00	0.08	0.00
6/12/2024	18:17	191.6	0.988	-0.01	0.01	0.12	0.00
6/12/2024	18:18	191.5	0.988	0.02	0.02	0.17	0.00
6/12/2024	18:19	191.5	0.988	0.00	0.04	0.30	0.00
6/12/2024	18:20	191.5	0.988	-0.08	0.05	0.31	0.00
6/12/2024	18:21	191.5	0.988	-0.03	0.06	0.38	0.00
6/12/2024	18:22	191.5	0.988	-0.03	0.07	0.36	0.00
6/12/2024	18:23	191.5	0.988	-0.09	0.09	0.43	0.00
6/13/2024	7:05	191.4	0.993	0.83	2.73	0.33	0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	7:06	191.4	1.004	0.68	2.03	0.19	0.01
6/13/2024	7:07	191.4	1.029	0.12	0.03	0.06	0.00
6/13/2024	7:08	191.5	1.029	0.11	0.01	0.03	0.00
6/13/2024	7:10	191.5	1.029	0.12	0.00	0.04	0.01
6/13/2024	7:11	191.5	1.029	0.14	0.00	0.06	0.00
6/13/2024	7:12	191.5	1.029	0.12	0.00	-0.08	0.00
6/13/2024	7:13	191.5	1.029	0.15	0.00	0.01	0.00
6/13/2024	7:14	191.5	1.029	0.13	0.00	0.06	0.00
6/13/2024	7:15	191.5	1.029	0.16	0.00	0.07	0.00
6/13/2024	7:16	191.5	1.029	0.10	0.00	0.01	0.00
6/13/2024	7:17	191.5	1.029	0.07	0.00	0.03	0.00
6/13/2024	7:18	191.5	1.029	0.15	0.00	-0.04	0.00
6/13/2024	7:21	191.5	1.029	0.00	0.00	0.00	0.00
6/13/2024	7:22	191.5	1.029	0.01	0.00	-0.01	0.00
6/13/2024	7:23	191.5	1.029	-0.01	0.00	0.00	0.00
6/13/2024	7:24	191.5	1.024	0.00	0.01	60.96	-0.02
6/13/2024	7:25	191.5	1.030	0.02	0.00	99.13	0.00
6/13/2024	7:26	191.5	1.030	-0.04	0.00	99.16	0.00
6/13/2024	7:27	191.5	1.030	0.05	0.00	99.02	0.00
6/13/2024	7:28	191.5	1.030	-0.02	0.00	99.22	0.00
6/13/2024	7:29	191.6	1.050	0.48	1.98	39.68	-0.01
6/13/2024	7:30	191.6	1.070	0.89	4.34	-0.07	0.00
6/13/2024	7:31	191.6	1.072	0.84	4.42	-0.06	0.00
6/13/2024	7:32	191.6	1.072	0.80	4.01	-0.05	0.00
6/13/2024	7:34	191.7	1.071	0.65	3.72	0.55	0.00
6/13/2024	7:35	191.7	1.072	0.87	2.76	-0.05	0.00
6/13/2024	7:36	191.7	1.071	0.37	1.26	-0.05	0.00
6/13/2024	7:37	191.7	1.071	0.03	0.42	0.01	0.00
6/13/2024	7:38	191.7	1.071	0.00	0.53	0.08	0.00
6/13/2024	7:39	191.7	1.071	0.00	0.45	0.03	0.00
6/13/2024	7:40	191.7	1.071	0.02	0.48	0.01	0.00
6/13/2024	7:41	191.7	1.071	0.00	0.51	0.02	0.00
6/13/2024	7:42	191.7	1.071	0.03	0.51	0.01	0.00
6/13/2024	7:43	191.7	1.071	-0.01	0.49	0.02	0.00
6/13/2024	7:44	191.7	1.069	0.43	1.26	-0.03	0.00
6/13/2024	7:45	191.7	1.057	1.08	9.92	0.05	-0.01
6/13/2024	7:46	191.7	1.059	2.03	13.54	-0.01	-0.01
6/13/2024	7:47	191.8	1.063	1.98	17.61	0.12	-0.01
6/13/2024	7:48	191.9	1.071	1.56	19.80	0.11	-0.01
6/13/2024	7:49	192.0	1.064	1.98	16.91	0.05	-0.01
6/13/2024	7:50	191.9	1.066	2.00	16.77	0.11	-0.01
6/13/2024	7:51	191.7	1.064	1.98	16.76	0.06	-0.01
6/13/2024	7:52	192.2	1.071	1.33	22.07	-0.58	-0.01
6/13/2024	7:53	191.9	1.064	2.32	15.38	0.12	-0.01
6/13/2024	7:54	192.0	1.071	1.51	21.47	-0.58	-0.01
6/13/2024	7:56	192.0	1.065	2.39	15.66	0.09	-0.01
6/13/2024	7:57	191.8	1.065	2.38	15.42	0.08	-0.01
6/13/2024	7:58	191.9	1.068	1.52	19.97	-0.23	-0.01
6/13/2024	7:59	192.0	1.064	1.95	16.81	0.06	-0.01
6/13/2024	8:00	192.0	1.069	1.53	20.03	-0.09	-0.01
6/13/2024	8:01	192.0	1.067	1.65	18.16	0.01	-0.01
6/13/2024	8:02	191.9	1.066	1.99	17.48	0.01	-0.01
6/13/2024	8:03	192.0	1.064	2.03	17.00	0.08	-0.01
6/13/2024	8:04	191.8	1.066	2.10	17.00	0.05	-0.02
6/13/2024	8:05	192.1	1.070	2.12	18.25	0.03	-0.02

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	8:06	191.9	1.064	2.36	15.65	0.09	-0.01
6/13/2024	8:07	191.8	1.064	2.28	15.09	0.07	-0.01
6/13/2024	8:08	191.9	1.072	1.48	20.61	-0.17	-0.01
6/13/2024	8:09	192.1	1.068	1.56	19.99	-0.04	-0.01
6/13/2024	8:10	192.0	1.064	2.48	16.11	0.05	-0.01
6/13/2024	8:11	192.1	1.070	1.57	19.75	-0.28	-0.01
6/13/2024	8:12	192.0	1.064	1.67	17.79	0.01	-0.01
6/13/2024	8:13	191.9	1.069	2.04	19.42	0.10	-0.01
6/13/2024	8:14	192.1	1.064	2.38	15.81	0.07	-0.01
6/13/2024	8:15	191.9	1.064	2.52	16.76	0.04	0.00
6/13/2024	8:16	192.0	1.071	1.50	20.84	-0.32	-0.01
6/13/2024	8:18	192.0	1.064	2.36	15.49	0.06	-0.01
6/13/2024	8:19	191.8	1.063	2.41	15.48	0.03	-0.01
6/13/2024	8:20	191.8	1.065	2.37	15.30	0.06	-0.01
6/13/2024	8:21	192.0	1.071	1.62	21.26	-0.41	-0.01
6/13/2024	8:22	192.0	1.066	1.70	18.04	-0.04	-0.01
6/13/2024	8:23	192.2	1.069	2.03	17.85	0.04	-0.01
6/13/2024	8:24	191.9	1.064	2.38	15.54	0.08	-0.01
6/13/2024	8:25	191.8	1.066	2.36	15.44	0.05	-0.01
6/13/2024	8:26	191.9	1.068	1.38	22.76	-0.52	-0.01
6/13/2024	8:27	192.1	1.065	2.40	15.71	0.10	-0.01
6/13/2024	8:28	191.8	1.064	2.38	15.75	0.05	-0.01
6/13/2024	8:29	192.1	1.073	1.28	23.17	-0.48	-0.01
6/13/2024	8:30	192.1	1.063	2.44	16.06	0.04	-0.01
6/13/2024	8:31	191.8	1.067	2.55	17.11	-0.07	0.00
6/13/2024	8:32	192.1	1.066	1.59	20.41	-0.17	-0.01
6/13/2024	8:33	192.0	1.064	2.36	16.03	0.07	-0.01
6/13/2024	8:34	192.1	1.069	1.58	21.06	-0.27	-0.01
6/13/2024	8:35	191.9	1.063	2.38	15.85	0.05	-0.01
6/13/2024	8:36	191.8	1.063	2.33	15.67	-0.02	-0.01
6/13/2024	8:37	191.8	1.065	2.34	15.56	0.02	-0.01
6/13/2024	8:38	192.0	1.070	2.08	24.62	-0.53	-0.01
6/13/2024	8:39	192.3	1.065	2.03	17.92	0.12	-0.01
6/13/2024	8:41	192.0	1.063	2.40	15.54	0.03	-0.01
6/13/2024	8:42	191.9	1.067	1.57	20.57	-0.23	-0.01
6/13/2024	8:43	192.0	1.065	2.40	15.97	0.04	-0.01
6/13/2024	8:44	192.0	1.069	1.39	22.23	-0.23	-0.01
6/13/2024	8:45	192.1	1.065	2.52	16.79	0.04	0.00
6/13/2024	8:46	191.9	1.062	1.99	15.84	0.07	-0.01
6/13/2024	8:47	191.7	1.063	2.37	15.48	0.01	-0.01
6/13/2024	8:48	191.9	1.069	1.29	22.28	-0.37	-0.01
6/13/2024	8:49	192.0	1.067	1.94	18.80	0.03	-0.01
6/13/2024	8:50	192.1	1.065	1.97	19.57	0.01	-0.01
6/13/2024	8:51	192.0	1.066	2.43	16.10	0.04	-0.01
6/13/2024	8:52	191.8	1.063	2.41	15.93	0.06	-0.01
6/13/2024	8:53	191.8	1.063	2.36	15.87	0.08	-0.01
6/13/2024	8:54	192.0	1.069	1.06	23.79	-0.62	-0.01
6/13/2024	8:55	192.3	1.065	1.96	18.53	0.08	-0.01
6/13/2024	8:56	192.0	1.067	2.01	20.94	-0.07	-0.02
6/13/2024	8:57	192.1	1.067	2.00	16.35	0.07	-0.01
6/13/2024	8:58	191.9	1.063	2.31	15.83	0.01	-0.01
6/13/2024	8:59	191.8	1.066	1.99	18.78	0.00	-0.01
6/13/2024	9:00	192.0	1.065	1.96	21.10	-0.04	-0.01
6/13/2024	9:01	192.2	1.066	1.58	18.68	-0.03	-0.01
6/13/2024	9:03	192.0	1.065	2.01	17.79	-0.02	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	9:04	192.1	1.065	1.97	20.59	-0.03	-0.01
6/13/2024	9:05	192.1	1.065	2.04	16.93	0.01	-0.01
6/13/2024	9:06	191.8	1.065	1.95	15.87	0.06	-0.01
6/13/2024	9:07	191.8	1.064	1.96	18.58	0.15	-0.01
6/13/2024	9:08	192.0	1.066	1.87	19.52	0.00	-0.01
6/13/2024	9:09	192.1	1.066	1.49	19.53	-0.05	-0.01
6/13/2024	9:10	191.9	1.065	1.84	16.73	0.07	-0.01
6/13/2024	9:11	191.8	1.069	2.00	17.13	0.04	-0.01
6/13/2024	9:12	192.1	1.079	0.69	9.12	-0.16	-0.01
6/13/2024	9:13	192.0	1.072	0.75	3.70	-0.08	0.00
6/13/2024	9:14	191.8	1.070	0.54	1.63	-0.06	0.00
6/13/2024	9:15	191.8	1.069	0.79	2.71	-0.04	0.00
6/13/2024	9:16	191.8	1.070	0.26	0.98	-0.05	0.00
6/13/2024	9:17	191.7	1.069	0.06	0.66	-0.06	0.00
6/13/2024	9:18	191.7	1.062	0.91	4.54	0.06	-0.01
6/13/2024	9:19	191.7	1.056	1.94	13.42	0.01	-0.02
6/13/2024	9:20	191.7	1.059	2.25	15.23	0.09	-0.01
6/13/2024	9:21	191.8	1.064	1.37	20.36	-0.15	-0.01
6/13/2024	9:22	192.0	1.070	1.49	20.68	-0.13	-0.01
6/13/2024	9:23	192.0	1.063	1.92	17.40	0.01	-0.01
6/13/2024	9:25	191.8	1.061	1.95	15.99	0.06	-0.01
6/13/2024	9:26	191.9	1.065	1.27	21.14	-0.23	-0.01
6/13/2024	9:27	192.0	1.064	1.58	18.55	0.02	-0.01
6/13/2024	9:28	191.9	1.067	1.98	18.59	0.07	-0.01
6/13/2024	9:29	191.9	1.063	1.96	17.13	0.07	-0.01
6/13/2024	9:30	192.0	1.066	1.45	20.40	-0.21	-0.01
6/13/2024	9:31	192.0	1.066	1.50	19.60	-0.02	-0.01
6/13/2024	9:32	192.1	1.067	1.38	20.51	-0.10	-0.01
6/13/2024	9:33	192.0	1.065	1.89	17.15	0.04	-0.01
6/13/2024	9:34	191.9	1.065	2.01	18.39	-0.04	-0.01
6/13/2024	9:35	192.1	1.065	1.96	18.50	0.00	-0.01
6/13/2024	9:36	191.8	1.063	2.32	15.58	0.02	-0.01
6/13/2024	9:37	192.0	1.068	1.33	21.93	-0.36	-0.01
6/13/2024	9:38	192.0	1.063	2.40	15.93	0.01	-0.01
6/13/2024	9:39	191.8	1.063	2.39	15.79	0.09	-0.01
6/13/2024	9:40	192.0	1.068	1.20	22.62	-0.41	-0.01
6/13/2024	9:41	192.2	1.065	1.97	18.80	0.01	-0.01
6/13/2024	9:42	192.0	1.067	1.97	19.85	-0.01	-0.01
6/13/2024	9:43	192.1	1.064	1.59	18.28	0.02	-0.01
6/13/2024	9:44	191.8	1.063	2.37	15.99	0.06	-0.01
6/13/2024	9:45	191.8	1.062	2.28	15.61	0.02	-0.01
6/13/2024	9:47	191.8	1.063	2.34	16.17	0.02	-0.01
6/13/2024	9:48	191.9	1.068	1.23	21.96	-0.41	-0.01
6/13/2024	9:49	192.1	1.065	2.00	18.43	0.03	-0.01
6/13/2024	9:50	191.9	1.062	2.33	15.66	0.05	-0.01
6/13/2024	9:51	191.9	1.066	1.45	20.69	-0.35	-0.01
6/13/2024	9:52	192.1	1.066	1.52	20.50	-0.13	-0.01
6/13/2024	9:53	192.0	1.065	1.60	18.10	0.06	-0.01
6/13/2024	9:54	191.9	1.063	1.91	17.64	0.04	-0.01
6/13/2024	9:55	192.1	1.067	1.46	20.75	-0.01	0.01
6/13/2024	9:56	192.1	1.065	1.94	17.37	0.08	-0.01
6/13/2024	9:57	191.9	1.064	1.51	20.48	-0.13	-0.01
6/13/2024	9:58	192.1	1.066	1.31	21.63	-0.22	-0.01
6/13/2024	9:59	192.1	1.063	1.92	17.05	0.07	-0.01
6/13/2024	10:00	191.9	1.066	1.53	20.05	-0.10	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	10:01	192.0	1.063	1.62	18.02	0.06	-0.01
6/13/2024	10:02	191.9	1.063	2.37	16.06	0.04	-0.01
6/13/2024	10:03	191.8	1.064	1.89	18.13	0.12	-0.01
6/13/2024	10:04	192.0	1.064	1.91	19.77	0.03	-0.01
6/13/2024	10:05	191.9	1.066	1.59	17.89	0.09	-0.01
6/13/2024	10:06	191.9	1.062	1.93	17.16	0.09	-0.01
6/13/2024	10:07	191.9	1.064	1.97	17.06	-0.06	-0.01
6/13/2024	10:09	192.1	1.069	1.20	22.32	-0.33	-0.01
6/13/2024	10:10	192.2	1.064	2.03	18.91	0.05	-0.01
6/13/2024	10:11	192.0	1.062	2.42	16.11	0.05	-0.01
6/13/2024	10:12	192.0	1.068	1.45	21.43	-0.28	-0.01
6/13/2024	10:13	192.1	1.063	1.55	17.81	0.13	-0.01
6/13/2024	10:14	192.1	1.065	1.96	19.15	0.14	-0.02
6/13/2024	10:15	191.9	1.063	2.00	16.67	0.06	-0.01
6/13/2024	10:16	191.9	1.063	1.92	15.93	0.09	-0.01
6/13/2024	10:17	191.8	1.065	1.91	18.27	0.07	-0.01
6/13/2024	10:18	192.1	1.066	1.80	19.53	0.00	-0.01
6/13/2024	10:19	192.1	1.064	1.43	20.26	-0.02	-0.01
6/13/2024	10:20	192.1	1.065	1.55	18.66	-0.01	-0.01
6/13/2024	10:21	192.0	1.063	1.99	17.74	-0.01	-0.01
6/13/2024	10:22	191.9	1.062	1.93	16.33	0.04	-0.01
6/13/2024	10:23	191.8	1.077	0.82	10.74	-0.14	-0.01
6/13/2024	10:24	191.8	1.073	0.88	4.14	-0.13	0.00
6/13/2024	10:25	191.8	1.070	0.60	1.73	-0.06	0.00
6/13/2024	10:26	191.8	1.069	0.18	0.93	-0.01	0.00
6/13/2024	10:27	191.7	1.068	0.37	1.10	-0.05	0.00
6/13/2024	10:28	191.7	1.068	0.17	0.87	-0.02	0.00
6/13/2024	10:29	191.7	1.068	0.07	0.74	0.01	0.00
6/13/2024	10:31	191.7	1.067	0.01	0.63	0.01	0.00
6/13/2024	10:32	191.7	1.055	1.05	9.37	0.01	-0.01
6/13/2024	10:33	191.7	1.056	2.23	14.74	-0.03	-0.01
6/13/2024	10:34	191.7	1.059	1.91	16.87	-0.03	-0.01
6/13/2024	10:35	191.8	1.063	1.92	18.34	0.07	-0.01
6/13/2024	10:36	191.9	1.068	1.88	19.28	0.01	-0.01
6/13/2024	10:37	192.0	1.063	1.60	18.02	0.04	-0.01
6/13/2024	10:38	191.8	1.062	2.35	16.21	0.04	-0.01
6/13/2024	10:39	191.9	1.064	1.94	18.77	-0.04	-0.01
6/13/2024	10:40	192.1	1.067	1.89	21.26	-0.05	-0.01
6/13/2024	10:41	192.1	1.064	1.61	17.82	0.08	-0.01
6/13/2024	10:42	195.4	1.346	1.89	12.72	0.01	-0.01
6/13/2024	10:43	192.0	1.065	1.46	20.11	-0.11	-0.01
6/13/2024	10:45	192.0	1.063	1.55	18.94	0.04	-0.01
6/13/2024	10:46	188.5	1.210	1.74	14.52	0.05	-0.01
6/13/2024	10:47	191.8	1.061	1.92	15.98	0.07	-0.01
6/13/2024	10:48	191.8	1.065	1.57	20.02	-0.18	-0.01
6/13/2024	10:49	192.1	1.064	1.37	21.73	-0.19	-0.01
6/13/2024	10:50	192.1	1.066	1.94	18.02	0.06	-0.01
6/13/2024	10:51	191.9	1.063	1.99	19.31	0.04	-0.02
6/13/2024	10:52	192.1	1.064	1.55	19.75	-0.03	-0.01
6/13/2024	10:53	192.0	1.063	2.37	16.07	0.04	-0.01
6/13/2024	10:54	191.8	1.063	2.38	15.95	0.05	-0.01
6/13/2024	10:55	191.9	1.067	1.40	21.42	-0.21	-0.01
6/13/2024	10:56	192.1	1.063	1.58	18.33	0.07	-0.01
6/13/2024	10:57	192.0	1.062	2.02	18.07	0.03	-0.02
6/13/2024	10:58	192.0	1.063	1.92	18.48	0.01	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	10:59	192.0	1.066	1.89	19.92	0.02	-0.01
6/13/2024	11:00	192.1	1.065	1.57	19.38	0.00	-0.01
6/13/2024	11:01	192.0	1.061	1.65	17.93	0.05	-0.01
6/13/2024	11:02	192.0	1.062	1.91	17.35	0.06	-0.01
6/13/2024	11:03	191.9	1.063	1.92	17.83	0.05	-0.01
6/13/2024	11:04	191.9	1.064	2.39	15.81	0.02	-0.01
6/13/2024	11:05	191.8	1.065	1.74	18.32	0.03	-0.01
6/13/2024	11:06	192.1	1.065	1.67	19.81	0.17	-0.01
6/13/2024	11:08	192.0	1.061	1.47	17.97	0.11	-0.01
6/13/2024	11:09	192.0	1.065	1.98	19.50	0.02	-0.01
6/13/2024	11:10	192.1	1.064	1.45	19.07	0.00	-0.01
6/13/2024	11:11	192.0	1.064	1.56	18.87	0.00	-0.01
6/13/2024	11:12	192.0	1.061	1.96	16.85	-0.02	-0.01
6/13/2024	11:13	192.1	1.067	1.28	21.82	-0.40	-0.01
6/13/2024	11:14	192.1	1.065	1.95	17.92	0.03	-0.01
6/13/2024	11:15	191.9	1.061	2.36	16.19	0.04	-0.01
6/13/2024	11:16	191.8	1.062	2.57	17.49	-0.10	-0.01
6/13/2024	11:17	192.0	1.064	2.01	18.62	0.04	-0.01
6/13/2024	11:18	192.0	1.065	1.27	22.29	-0.45	-0.01
6/13/2024	11:19	192.2	1.066	1.95	17.96	0.03	-0.01
6/13/2024	11:20	191.9	1.061	2.43	16.15	0.00	-0.01
6/13/2024	11:21	191.9	1.062	2.30	16.13	0.03	-0.01
6/13/2024	11:22	191.8	1.062	2.44	16.40	-0.06	0.00
6/13/2024	11:23	192.0	1.065	1.20	23.10	-0.03	-0.01
6/13/2024	11:24	192.1	1.063	2.03	18.17	0.06	-0.01
6/13/2024	11:25	191.9	1.062	2.46	16.12	0.01	-0.01
6/13/2024	11:26	191.9	1.067	1.48	20.14	-0.34	-0.01
6/13/2024	11:27	192.2	1.063	1.50	20.68	-0.09	-0.01
6/13/2024	11:28	192.1	1.066	1.57	20.27	-0.67	0.00
6/13/2024	11:30	192.1	1.060	1.92	17.21	0.06	-0.01
6/13/2024	11:31	191.9	1.063	1.93	17.26	0.07	-0.01
6/13/2024	11:32	192.1	1.063	1.92	18.49	0.06	-0.01
6/13/2024	11:33	191.9	1.060	2.48	16.11	0.03	-0.01
6/13/2024	11:34	191.8	1.069	1.91	17.40	-0.11	-0.02
6/13/2024	11:35	192.0	1.076	1.09	5.98	-0.09	-0.01
6/13/2024	11:36	191.8	1.069	0.64	2.12	-0.07	0.00
6/13/2024	11:37	191.8	1.067	0.52	1.98	0.02	0.00
6/13/2024	11:38	191.8	1.067	0.21	0.89	-0.08	0.00
6/13/2024	11:39	191.7	1.066	0.02	0.63	-0.07	0.00
6/13/2024	11:40	191.7	1.066	-0.10	0.43	-0.03	0.00
6/13/2024	11:41	191.7	1.062	0.96	2.83	0.00	-0.01
6/13/2024	11:42	191.7	1.053	1.97	13.45	-0.01	-0.01
6/13/2024	11:43	191.7	1.056	2.20	15.40	-0.03	-0.01
6/13/2024	11:44	191.7	1.059	2.30	15.89	-0.01	-0.01
6/13/2024	11:45	191.9	1.064	1.41	21.48	-0.26	-0.01
6/13/2024	11:46	191.9	1.066	1.60	17.97	0.07	-0.01
6/13/2024	11:47	191.8	1.062	2.01	18.42	-0.03	-0.01
6/13/2024	11:48	192.0	1.063	1.98	19.36	0.00	-0.01
6/13/2024	11:49	192.0	1.063	1.55	19.04	0.05	-0.01
6/13/2024	11:50	191.9	1.062	1.97	17.03	0.05	-0.01
6/13/2024	11:52	191.8	1.065	1.46	20.00	-0.17	-0.01
6/13/2024	11:53	192.0	1.063	1.48	19.60	-0.03	-0.01
6/13/2024	11:54	192.0	1.061	1.59	17.92	0.06	-0.01
6/13/2024	11:55	191.9	1.061	2.44	16.09	0.04	-0.01
6/13/2024	11:56	191.8	1.060	2.50	16.99	0.02	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	11:57	192.0	1.066	1.26	22.17	-0.31	-0.01
6/13/2024	11:58	192.2	1.063	2.06	18.24	0.03	-0.01
6/13/2024	11:59	191.9	1.060	2.43	16.21	0.02	-0.01
6/13/2024	12:00	191.9	1.061	2.46	16.88	-0.02	-0.01
6/13/2024	12:01	191.8	1.063	1.43	20.12	-0.17	-0.01
6/13/2024	12:02	192.1	1.066	1.37	21.68	-0.34	-0.01
6/13/2024	12:03	192.1	1.062	1.90	18.19	0.05	-0.01
6/13/2024	12:04	192.0	1.061	1.94	16.95	0.00	-0.01
6/13/2024	12:05	191.9	1.064	1.51	20.30	-0.36	-0.01
6/13/2024	12:06	192.1	1.062	1.58	20.12	-0.04	-0.01
6/13/2024	12:07	192.0	1.060	2.44	16.27	0.04	-0.01
6/13/2024	12:08	191.9	1.066	1.52	21.12	-0.24	-0.01
6/13/2024	12:09	192.0	1.063	1.59	19.38	-0.07	-0.01
6/13/2024	12:10	192.0	1.060	1.95	16.78	0.07	-0.01
6/13/2024	12:11	191.9	1.060	1.93	16.25	0.08	-0.01
6/13/2024	12:12	191.8	1.062	2.35	16.13	0.01	-0.01
6/13/2024	12:14	191.8	1.059	2.44	16.15	0.02	-0.01
6/13/2024	12:15	191.8	1.065	1.40	21.29	-0.33	-0.01
6/13/2024	12:16	192.2	1.065	1.36	21.81	-0.17	-0.01
6/13/2024	12:17	192.1	1.071	2.38	15.94	-0.15	-0.01
6/13/2024	12:18	192.2	1.071	0.72	3.69	-0.13	0.00
6/13/2024	12:19	191.9	1.066	0.11	0.91	-0.09	0.00
6/13/2024	12:20	191.8	1.066	0.02	0.60	-0.06	0.00
6/13/2024	12:21	191.8	1.065	0.32	1.04	-0.02	0.00
6/13/2024	12:22	191.8	1.065	0.31	1.27	0.03	0.00
6/13/2024	12:23	191.8	1.065	0.49	1.54	-0.03	-0.01
6/13/2024	12:24	191.8	1.047	0.51	1.58	-0.09	0.00
6/13/2024	12:25	191.7	1.026	-0.02	0.54	-0.04	0.00
6/13/2024	12:26	191.7	1.025	-0.14	0.08	0.03	0.00
6/13/2024	12:27	191.7	1.025	-0.09	0.03	0.05	0.00
6/13/2024	12:28	191.7	1.025	-0.14	0.01	-0.11	0.00
6/13/2024	12:29	191.6	1.025	-0.11	0.00	-0.03	0.00
6/13/2024	12:30	191.6	1.025	0.00	0.00	-0.01	0.00
6/13/2024	12:33	191.6	1.025	0.00	0.00	0.00	0.00
6/13/2024	12:34	191.6	1.025	-0.01	0.00	0.01	0.00
6/13/2024	12:35	191.6	1.025	-0.02	0.00	0.05	0.00
6/13/2024	12:36	191.6	1.024	-0.06	0.00	68.95	-0.02
6/13/2024	12:37	191.7	1.026	-0.08	0.00	99.47	0.00
6/13/2024	12:38	191.6	1.026	-0.01	0.00	99.46	-0.01
6/13/2024	12:39	191.6	1.026	-0.02	0.00	99.43	0.00
6/13/2024	12:40	191.6	1.026	-0.04	0.00	99.42	0.00
6/13/2024	12:41	191.6	1.027	-0.04	0.18	53.41	-0.01
6/13/2024	12:42	191.7	1.061	0.91	3.90	0.06	-0.01
6/13/2024	12:43	191.7	1.060	1.21	6.04	0.01	-0.01
6/13/2024	12:44	191.7	1.056	1.63	7.46	-0.01	-0.01
6/13/2024	12:45	191.7	1.054	2.31	14.61	-0.11	0.00
6/13/2024	12:46	192.2	1.060	1.35	21.33	-0.36	-0.02
6/13/2024	12:47	192.2	1.063	1.44	20.95	-0.11	-0.01
6/13/2024	12:48	192.2	1.064	1.98	17.21	0.03	-0.01
6/13/2024	12:49	192.0	1.067	2.09	17.57	0.06	-0.01
6/13/2024	12:50	192.0	1.060	1.97	17.22	0.12	-0.01
6/13/2024	12:51	192.0	1.062	1.51	21.00	-0.20	-0.01
6/13/2024	12:53	192.1	1.063	1.63	18.14	0.10	-0.01
6/13/2024	12:54	191.9	1.062	2.10	18.73	0.03	-0.01
6/13/2024	12:55	192.1	1.059	2.44	16.09	0.05	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	12:56	191.8	1.059	2.46	16.66	0.01	-0.01
6/13/2024	12:57	191.9	1.063	1.59	19.89	-0.17	-0.01
6/13/2024	12:58	192.2	1.063	1.48	21.30	-0.08	-0.01
6/13/2024	12:59	192.1	1.061	2.43	16.11	0.05	-0.01
6/13/2024	13:00	191.9	1.059	2.54	16.91	0.05	-0.01
6/13/2024	13:01	191.8	1.059	1.99	16.14	0.11	-0.01
6/13/2024	13:02	192.0	1.065	1.33	23.36	-0.32	-0.02
6/13/2024	13:03	192.2	1.062	2.48	16.72	0.06	-0.01
6/13/2024	13:04	191.9	1.061	1.94	16.01	0.16	-0.01
6/13/2024	13:05	191.9	1.062	1.58	20.30	-0.19	-0.01
6/13/2024	13:06	192.1	1.062	1.62	18.24	0.07	-0.01
6/13/2024	13:07	192.1	1.063	1.96	20.94	0.02	-0.01
6/13/2024	13:08	192.2	1.061	1.99	17.22	0.10	-0.01
6/13/2024	13:09	192.0	1.059	2.05	16.14	0.08	-0.01
6/13/2024	13:10	191.9	1.060	2.42	16.03	0.03	-0.01
6/13/2024	13:11	191.8	1.059	2.45	16.05	0.02	-0.01
6/13/2024	13:12	191.9	1.062	1.43	20.34	-0.06	-0.01
6/13/2024	13:13	192.1	1.062	1.43	21.07	-0.10	-0.01
6/13/2024	13:15	192.1	1.065	1.49	21.08	-0.09	-0.01
6/13/2024	13:16	192.1	1.060	1.57	19.45	-0.01	-0.01
6/13/2024	13:17	192.1	1.061	1.60	18.94	0.08	-0.01
6/13/2024	13:18	192.0	1.061	1.98	17.27	0.11	-0.01
6/13/2024	13:19	191.9	1.058	2.02	16.37	0.09	-0.01
6/13/2024	13:20	191.9	1.058	2.47	16.08	0.05	-0.01
6/13/2024	13:21	191.8	1.060	2.17	18.98	0.05	-0.02
6/13/2024	13:22	192.1	1.062	2.07	17.93	0.11	-0.01
6/13/2024	13:23	192.1	1.066	1.21	24.37	-0.50	-0.01
6/13/2024	13:24	192.2	1.060	2.51	16.82	0.02	-0.01
6/13/2024	13:25	191.9	1.058	2.01	16.22	0.10	-0.01
6/13/2024	13:26	191.9	1.058	2.36	16.09	0.03	-0.01
6/13/2024	13:27	191.8	1.063	2.02	18.73	-0.03	-0.01
6/13/2024	13:28	192.1	1.060	1.94	19.99	0.03	-0.01
6/13/2024	13:29	192.1	1.060	1.58	18.37	0.15	-0.01
6/13/2024	13:30	192.0	1.060	1.96	16.84	0.09	-0.01
6/13/2024	13:31	192.0	1.062	2.05	18.82	0.03	-0.01
6/13/2024	13:32	192.1	1.062	1.99	19.46	0.07	-0.01
6/13/2024	13:33	192.0	1.061	1.62	18.99	0.01	-0.01
6/13/2024	13:34	192.1	1.059	2.07	17.81	0.03	-0.01
6/13/2024	13:35	191.9	1.058	2.06	17.91	-0.01	-0.01
6/13/2024	13:37	192.0	1.062	2.06	19.12	0.06	-0.01
6/13/2024	13:38	192.0	1.060	1.99	17.52	0.09	-0.01
6/13/2024	13:39	191.9	1.057	1.99	16.30	0.12	-0.01
6/13/2024	13:40	191.8	1.057	2.49	16.08	0.03	-0.01
6/13/2024	13:41	191.8	1.062	1.51	20.48	-0.23	-0.01
6/13/2024	13:42	192.3	1.065	1.32	22.72	-0.30	-0.01
6/13/2024	13:43	192.1	1.058	2.45	16.62	0.05	-0.01
6/13/2024	13:44	191.9	1.057	2.04	16.28	0.06	-0.01
6/13/2024	13:45	191.8	1.058	2.39	16.14	0.05	-0.01
6/13/2024	13:46	191.8	1.058	2.65	17.73	0.00	0.00
6/13/2024	13:47	192.0	1.061	1.41	21.05	-0.03	-0.01
6/13/2024	13:48	192.1	1.060	1.71	18.10	0.14	-0.01
6/13/2024	13:49	191.9	1.058	2.53	15.95	0.05	-0.01
6/13/2024	13:50	191.9	1.060	1.67	19.80	-0.03	-0.01
6/13/2024	13:51	192.1	1.061	1.42	21.72	-0.67	-0.01
6/13/2024	13:52	192.1	1.060	1.98	18.84	0.05	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	13:53	192.0	1.059	2.06	17.16	0.11	-0.01
6/13/2024	13:54	191.9	1.059	2.03	17.17	0.09	-0.01
6/13/2024	13:55	192.0	1.061	1.49	20.79	-0.01	-0.01
6/13/2024	13:56	192.1	1.058	2.00	17.48	0.11	-0.01
6/13/2024	13:57	191.9	1.057	1.99	16.83	0.06	-0.01
6/13/2024	13:59	191.9	1.061	2.00	18.79	0.04	-0.01
6/13/2024	14:00	192.1	1.060	2.00	18.53	0.08	-0.01
6/13/2024	14:01	192.0	1.059	2.02	17.74	0.12	-0.01
6/13/2024	14:02	192.0	1.059	1.98	17.09	0.08	-0.02
6/13/2024	14:03	192.0	1.057	2.00	16.89	0.09	-0.01
6/13/2024	14:04	191.8	1.058	2.09	17.71	-0.05	-0.01
6/13/2024	14:05	192.0	1.061	1.62	21.01	-0.07	-0.01
6/13/2024	14:06	192.1	1.059	1.50	20.10	0.02	-0.01
6/13/2024	14:07	192.0	1.060	1.60	18.19	0.11	-0.01
6/13/2024	14:08	192.0	1.058	1.96	17.29	0.07	-0.01
6/13/2024	14:09	192.1	1.063	1.40	21.23	-0.21	-0.01
6/13/2024	14:10	192.1	1.059	1.64	18.09	0.11	-0.01
6/13/2024	14:11	192.0	1.057	2.41	16.28	0.01	-0.01
6/13/2024	14:12	192.0	1.059	1.97	18.75	0.02	-0.01
6/13/2024	14:13	191.9	1.059	2.03	17.62	0.05	-0.01
6/13/2024	14:14	191.9	1.057	2.00	16.98	0.07	-0.01
6/13/2024	14:15	191.9	1.056	2.02	16.33	0.12	-0.01
6/13/2024	14:16	192.0	1.062	1.29	22.36	-0.32	-0.01
6/13/2024	14:17	192.1	1.060	2.09	19.07	0.09	-0.01
6/13/2024	14:18	192.0	1.058	2.08	18.14	0.04	-0.01
6/13/2024	14:19	192.0	1.059	2.05	18.18	0.16	-0.01
6/13/2024	14:21	192.0	1.058	2.02	18.32	0.11	-0.01
6/13/2024	14:22	192.0	1.056	2.04	17.61	0.14	-0.01
6/13/2024	14:23	192.0	1.066	1.44	21.01	-0.20	-0.01
6/13/2024	14:24	192.1	1.070	1.21	6.80	-0.09	-0.01
6/13/2024	14:25	192.0	1.063	0.77	2.44	0.00	0.00
6/13/2024	14:26	191.9	1.062	0.50	1.64	0.09	0.00
6/13/2024	14:27	191.8	1.062	0.40	1.39	0.00	0.00
6/13/2024	14:28	191.8	1.061	0.52	1.50	0.06	-0.01
6/13/2024	14:29	191.8	1.061	0.33	0.99	-0.03	0.00
6/13/2024	14:30	191.8	1.061	0.06	0.55	-0.01	0.00
6/13/2024	14:31	191.8	1.060	0.64	1.44	0.00	-0.01
6/13/2024	14:32	191.8	1.051	1.98	12.98	0.06	-0.02
6/13/2024	14:33	191.8	1.052	2.31	15.29	0.01	-0.01
6/13/2024	14:34	191.8	1.054	2.38	15.82	0.06	-0.01
6/13/2024	14:35	191.8	1.055	2.49	15.96	0.03	-0.01
6/13/2024	14:36	191.9	1.061	1.55	21.01	-0.18	-0.01
6/13/2024	14:37	192.0	1.057	2.00	16.63	0.10	-0.01
6/13/2024	14:38	191.9	1.057	2.11	17.90	0.09	-0.01
6/13/2024	14:39	191.8	1.057	2.08	17.82	0.16	-0.02
6/13/2024	14:40	192.0	1.060	1.47	19.87	0.06	-0.01
6/13/2024	14:42	192.0	1.056	1.66	18.57	0.11	-0.01
6/13/2024	14:43	191.9	1.060	2.02	18.84	0.07	-0.01
6/13/2024	14:44	192.0	1.058	2.04	18.42	0.09	-0.01
6/13/2024	14:45	191.9	1.056	1.99	17.26	0.07	-0.01
6/13/2024	14:46	191.9	1.054	2.09	16.57	0.11	-0.01
6/13/2024	14:47	191.9	1.055	2.46	16.32	0.07	-0.01
6/13/2024	14:48	191.8	1.054	2.36	16.31	0.02	-0.01
6/13/2024	14:49	191.9	1.062	1.50	21.18	-0.21	-0.01
6/13/2024	14:50	192.1	1.059	1.49	21.45	-0.04	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	14:51	192.1	1.059	1.71	18.77	0.06	-0.01
6/13/2024	14:52	192.0	1.055	2.03	17.28	0.12	-0.01
6/13/2024	14:53	191.9	1.055	2.02	16.33	0.08	-0.01
6/13/2024	14:54	191.9	1.057	1.65	20.54	-0.11	-0.01
6/13/2024	14:55	192.1	1.060	1.61	19.93	-0.01	-0.01
6/13/2024	14:56	192.0	1.058	1.66	20.19	-0.04	-0.01
6/13/2024	14:57	192.0	1.056	1.98	16.72	0.09	-0.01
6/13/2024	14:58	192.0	1.059	1.53	20.49	0.12	-0.01
6/13/2024	14:59	192.0	1.056	1.74	18.88	0.09	-0.01
6/13/2024	15:00	192.0	1.055	2.03	17.10	0.11	-0.01
6/13/2024	15:01	191.9	1.057	1.61	19.78	0.03	-0.01
6/13/2024	15:02	192.0	1.059	1.68	19.26	0.04	-0.01
6/13/2024	15:04	191.9	1.054	2.45	16.11	0.05	-0.01
6/13/2024	15:05	191.9	1.054	2.43	16.08	-0.05	-0.01
6/13/2024	15:06	191.9	1.056	2.01	19.04	-0.09	-0.02
6/13/2024	15:07	192.0	1.059	1.99	17.96	0.08	-0.01
6/13/2024	15:08	192.0	1.057	1.98	20.60	0.09	-0.02
6/13/2024	15:09	192.0	1.056	1.69	18.17	0.16	-0.01
6/13/2024	15:10	192.0	1.058	2.06	17.89	0.06	-0.01
6/13/2024	15:11	191.9	1.055	2.47	16.15	0.02	-0.01
6/13/2024	15:12	191.8	1.053	2.43	16.16	0.09	-0.01
6/13/2024	15:13	191.9	1.055	1.39	20.23	0.00	-0.01
6/13/2024	15:14	192.1	1.060	1.26	21.36	-0.02	-0.01
6/13/2024	15:15	192.0	1.057	1.38	18.49	0.22	-0.01
6/13/2024	15:16	192.0	1.057	1.84	19.16	0.11	-0.02
6/13/2024	15:17	192.1	1.059	1.43	20.40	-0.04	-0.01
6/13/2024	15:18	192.0	1.055	1.97	17.23	0.04	-0.01
6/13/2024	15:19	192.0	1.054	1.98	16.49	0.02	-0.01
6/13/2024	15:20	191.9	1.058	1.50	20.98	-0.23	-0.01
6/13/2024	15:21	192.1	1.054	2.08	17.22	0.12	-0.01
6/13/2024	15:22	191.9	1.055	1.96	16.17	0.03	-0.01
6/13/2024	15:23	191.9	1.055	2.10	18.14	0.03	-0.01
6/13/2024	15:24	192.1	1.060	1.97	20.48	0.00	-0.01
6/13/2024	15:26	192.0	1.054	2.12	17.34	0.05	-0.01
6/13/2024	15:27	191.9	1.056	2.07	18.02	0.04	-0.01
6/13/2024	15:28	192.1	1.056	2.09	17.93	0.02	-0.01
6/13/2024	15:29	192.0	1.058	1.93	20.77	0.00	-0.02
6/13/2024	15:30	192.1	1.058	1.67	18.39	0.10	-0.01
6/13/2024	15:31	192.0	1.055	2.06	16.85	0.08	-0.01
6/13/2024	15:32	191.9	1.054	1.98	16.10	0.08	-0.01
6/13/2024	15:33	191.8	1.054	2.44	15.98	0.07	-0.01
6/13/2024	15:34	191.8	1.071	1.62	8.76	-0.17	-0.01
6/13/2024	15:35	191.8	1.063	0.97	3.48	-0.11	0.00
6/13/2024	15:36	191.8	1.061	0.68	1.74	-0.09	0.00
6/13/2024	15:37	191.8	1.060	0.29	0.88	-0.02	0.00
6/13/2024	15:38	191.8	1.059	0.68	1.75	0.04	-0.01
6/13/2024	15:39	191.8	1.060	0.01	0.52	0.16	-0.01
6/13/2024	15:40	191.8	1.060	-0.10	0.29	0.23	-0.01
6/13/2024	15:41	191.8	1.060	-0.14	0.19	0.22	-0.01
6/13/2024	15:42	191.8	1.060	-0.15	0.16	0.23	-0.01
6/13/2024	15:43	191.7	1.050	1.84	9.09	0.05	-0.01
6/13/2024	15:44	191.7	1.050	2.34	14.88	0.02	-0.01
6/13/2024	15:45	191.8	1.052	2.39	15.42	0.03	-0.01
6/13/2024	15:46	191.7	1.053	2.40	15.76	0.07	-0.01
6/13/2024	15:47	191.7	1.054	2.36	15.85	0.07	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	15:49	191.8	1.059	1.60	20.40	-0.09	-0.01
6/13/2024	15:50	192.1	1.058	1.56	20.15	0.00	-0.01
6/13/2024	15:51	192.0	1.054	2.46	16.11	0.03	-0.01
6/13/2024	15:52	191.8	1.053	2.40	16.13	0.04	-0.01
6/13/2024	15:53	192.0	1.057	1.53	20.81	-0.14	-0.01
6/13/2024	15:54	192.0	1.054	2.01	16.69	0.11	-0.01
6/13/2024	15:55	192.0	1.058	1.45	21.23	-0.16	-0.01
6/13/2024	15:56	192.1	1.054	2.08	16.55	0.10	-0.01
6/13/2024	15:57	191.9	1.055	2.08	18.05	0.03	-0.01
6/13/2024	15:58	192.1	1.057	2.14	19.17	0.08	-0.01
6/13/2024	15:59	192.0	1.055	2.43	15.94	0.09	-0.01
6/13/2024	16:00	191.9	1.053	2.43	15.88	0.05	-0.01
6/13/2024	16:01	192.0	1.060	1.29	22.41	-0.41	-0.01
6/13/2024	16:02	192.1	1.057	1.56	20.13	-0.05	-0.01
6/13/2024	16:03	192.1	1.054	2.40	15.90	0.06	-0.01
6/13/2024	16:04	191.9	1.053	2.44	15.86	0.08	-0.01
6/13/2024	16:05	192.0	1.059	1.46	21.42	-0.21	-0.01
6/13/2024	16:06	192.1	1.056	1.68	18.07	0.11	-0.01
6/13/2024	16:07	191.9	1.053	2.53	16.72	0.04	-0.01
6/13/2024	16:08	191.9	1.056	2.03	17.93	0.07	-0.02
6/13/2024	16:09	192.1	1.058	1.99	20.62	-0.06	-0.01
6/13/2024	16:11	192.1	1.054	2.05	16.83	0.07	-0.01
6/13/2024	16:12	191.9	1.053	2.03	15.96	0.10	-0.01
6/13/2024	16:13	191.9	1.053	2.40	15.91	0.09	-0.01
6/13/2024	16:14	191.9	1.055	2.38	15.91	0.06	-0.01
6/13/2024	16:15	191.8	1.055	2.51	16.56	0.12	0.00
6/13/2024	16:16	192.1	1.058	1.22	23.66	-0.44	-0.01
6/13/2024	16:17	192.2	1.058	2.02	18.95	0.08	-0.01
6/13/2024	16:18	192.1	1.053	2.45	15.93	0.10	-0.01
6/13/2024	16:19	191.9	1.052	2.40	15.88	0.03	-0.01
6/13/2024	16:20	191.9	1.053	2.43	15.74	0.08	-0.01
6/13/2024	16:21	192.0	1.060	1.33	22.17	-0.26	-0.01
6/13/2024	16:22	192.2	1.056	2.01	18.98	0.06	-0.01
6/13/2024	16:23	192.1	1.054	2.38	15.84	0.10	-0.01
6/13/2024	16:24	192.1	1.058	1.55	21.03	-0.13	-0.01
6/13/2024	16:25	192.1	1.054	2.49	16.36	0.07	-0.01
6/13/2024	16:26	192.0	1.053	2.52	17.02	0.04	-0.01
6/13/2024	16:27	192.0	1.057	1.56	20.50	-0.19	-0.01
6/13/2024	16:28	192.2	1.055	1.67	18.40	0.11	-0.01
6/13/2024	16:29	192.0	1.054	2.39	15.88	0.02	-0.01
6/13/2024	16:30	191.9	1.052	2.39	15.87	0.11	-0.01
6/13/2024	16:31	191.8	1.056	1.96	18.60	0.02	-0.02
6/13/2024	16:33	192.1	1.056	1.97	18.43	0.09	-0.01
6/13/2024	16:34	192.1	1.056	1.99	18.87	0.07	-0.01
6/13/2024	16:35	192.1	1.055	2.07	19.46	0.04	-0.01
6/13/2024	16:36	192.1	1.057	1.63	18.87	0.05	-0.01
6/13/2024	16:37	192.0	1.054	2.01	17.57	0.09	-0.02
6/13/2024	16:38	192.0	1.054	1.99	16.80	0.09	-0.01
6/13/2024	16:39	192.0	1.053	2.03	15.93	0.15	-0.01
6/13/2024	16:40	192.0	1.056	1.45	21.29	-0.27	-0.01
6/13/2024	16:41	192.2	1.057	1.49	21.40	-0.06	-0.01
6/13/2024	16:42	192.1	1.053	2.37	15.90	0.05	-0.01
6/13/2024	16:43	191.9	1.052	2.30	15.85	0.11	-0.01
6/13/2024	16:44	191.8	1.053	2.40	15.83	0.02	-0.01
6/13/2024	16:45	191.9	1.058	1.48	20.85	-0.19	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	16:46	192.1	1.068	1.43	6.70	0.14	-0.01
6/13/2024	16:47	191.9	1.060	0.70	1.71	0.21	-0.01
6/13/2024	16:48	191.9	1.059	0.16	0.76	0.23	-0.01
6/13/2024	16:49	191.9	1.059	0.01	0.41	0.23	-0.01
6/13/2024	16:50	191.8	1.058	0.37	1.06	0.03	0.00
6/13/2024	16:51	191.8	1.058	-0.12	0.25	0.03	0.00
6/13/2024	16:52	191.8	1.058	-0.12	0.17	0.02	0.00
6/13/2024	16:53	191.8	1.058	-0.14	0.14	0.07	0.00
6/13/2024	16:55	191.8	1.054	0.76	1.57	-0.08	-0.01
6/13/2024	16:56	191.8	1.047	1.99	13.18	0.03	-0.02
6/13/2024	16:57	191.8	1.049	2.33	14.97	0.13	-0.01
6/13/2024	16:58	191.8	1.050	2.32	15.42	0.09	-0.01
6/13/2024	16:59	191.8	1.051	2.34	15.61	0.06	-0.01
6/13/2024	17:00	191.8	1.053	2.49	16.73	0.16	-0.01
6/13/2024	17:01	192.0	1.058	1.44	21.49	-0.22	-0.01
6/13/2024	17:02	192.0	1.053	2.50	16.30	0.05	-0.01
6/13/2024	17:03	192.0	1.055	1.46	21.76	-0.21	-0.01
6/13/2024	17:04	192.1	1.054	1.99	17.25	0.07	-0.01
6/13/2024	17:05	192.0	1.053	1.97	15.88	0.09	-0.01
6/13/2024	17:06	191.9	1.051	2.37	15.72	0.08	-0.01
6/13/2024	17:07	191.9	1.055	1.55	20.86	-0.25	-0.01
6/13/2024	17:08	192.2	1.056	1.44	20.51	-0.07	-0.01
6/13/2024	17:09	192.2	1.057	1.58	20.40	-0.04	-0.01
6/13/2024	17:10	192.0	1.052	2.45	15.97	0.09	-0.01
6/13/2024	17:11	191.9	1.051	2.41	15.89	0.05	-0.01
6/13/2024	17:12	191.9	1.051	2.38	15.84	0.09	-0.01
6/13/2024	17:13	191.9	1.053	2.46	15.83	0.07	-0.01
6/13/2024	17:14	191.9	1.057	1.38	21.37	-0.29	-0.01
6/13/2024	17:16	192.2	1.055	1.51	20.15	0.02	-0.01
6/13/2024	17:17	192.0	1.051	2.36	15.91	0.05	-0.01
6/13/2024	17:18	191.9	1.051	2.44	15.86	0.10	-0.01
6/13/2024	17:19	191.9	1.055	1.56	20.03	-0.08	-0.01
6/13/2024	17:20	192.2	1.056	1.38	22.89	-0.18	-0.01
6/13/2024	17:21	192.1	1.055	2.07	17.29	0.04	-0.01
6/13/2024	17:22	192.0	1.051	2.02	16.12	0.06	-0.01
6/13/2024	17:23	192.0	1.056	1.48	21.17	-0.19	-0.01
6/13/2024	17:24	192.1	1.053	1.70	18.75	0.08	-0.01
6/13/2024	17:25	192.0	1.053	2.45	16.61	0.08	-0.01
6/13/2024	17:26	192.0	1.055	2.04	18.50	0.09	-0.01
6/13/2024	17:27	192.0	1.054	2.07	17.13	0.11	-0.01
6/13/2024	17:28	191.9	1.052	2.02	15.83	0.05	-0.01
6/13/2024	17:29	191.8	1.053	2.02	18.12	0.10	-0.01
6/13/2024	17:30	192.1	1.056	2.02	20.56	0.06	-0.02
6/13/2024	17:31	192.0	1.058	2.37	15.40	0.05	-0.01
6/13/2024	17:32	191.9	1.065	1.30	6.41	-0.12	0.00
6/13/2024	17:33	191.9	1.059	0.63	1.58	-0.07	0.00
6/13/2024	17:34	191.8	1.057	0.04	0.55	0.03	0.00
6/13/2024	17:35	191.8	1.057	-0.10	0.32	0.02	0.00
6/13/2024	17:36	191.8	1.056	-0.09	0.21	0.03	0.00
6/13/2024	17:38	191.8	1.056	0.06	0.53	0.04	0.00
6/13/2024	17:39	191.8	1.056	-0.07	0.24	0.03	0.00
6/13/2024	17:40	191.8	1.056	-0.09	0.21	0.02	0.00
6/13/2024	17:41	191.8	1.056	-0.05	0.38	0.00	0.00
6/13/2024	17:42	191.8	1.028	0.81	1.94	-0.07	0.00
6/13/2024	17:43	191.7	1.023	0.08	0.57	0.07	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/13/2024	17:44	191.7	1.023	-0.06	0.11	0.01	0.00
6/13/2024	17:45	191.7	1.022	-0.07	0.02	0.08	0.00
6/13/2024	17:46	191.7	1.022	-0.04	0.00	0.03	0.00
6/13/2024	17:47	191.7	1.022	0.02	0.00	0.01	0.00
6/13/2024	17:48	191.7	1.022	-0.14	0.00	0.04	0.00
6/13/2024	17:49	191.7	1.022	-0.04	0.00	0.00	0.00
6/13/2024	17:52	191.7	1.022	0.00	0.00	0.00	0.00
6/13/2024	17:53	191.6	1.022	0.12	0.00	0.01	0.00
6/13/2024	17:54	191.6	1.022	0.00	0.00	0.01	0.00
6/13/2024	17:55	191.6	1.022	0.00	0.00	0.01	0.00
6/13/2024	17:56	191.6	1.021	-0.02	0.01	49.41	-0.02
6/13/2024	17:57	191.7	1.023	0.08	0.00	99.35	0.00
6/13/2024	17:58	191.6	1.023	0.10	0.00	99.30	-0.01
6/13/2024	18:00	191.6	1.023	0.07	-0.01	99.32	0.00
6/13/2024	18:01	191.6	1.023	0.02	0.00	99.45	0.00
6/13/2024	18:02	191.7	1.023	0.04	0.00	99.40	0.00
6/13/2024	18:03	191.6	1.030	-0.02	0.00	40.31	-0.02
6/13/2024	18:04	191.7	1.046	0.00	-0.01	-0.02	0.00
6/13/2024	18:05	191.7	1.041	0.10	0.00	0.02	0.00
6/13/2024	18:06	191.7	0.987	0.03	0.00	0.01	0.00
6/13/2024	18:07	191.7	0.988	-0.03	0.00	0.06	0.00
6/13/2024	18:08	191.6	0.988	0.06	0.01	0.12	0.00
6/13/2024	18:09	191.6	0.987	-0.04	0.02	0.22	0.00
6/13/2024	18:10	191.6	0.987	0.05	0.03	0.22	0.00
6/13/2024	18:11	191.6	0.988	0.00	0.04	0.38	0.00
6/13/2024	18:12	191.6	0.988	-0.01	0.05	0.40	0.00
6/13/2024	18:13	191.6	0.988	-0.03	0.06	0.40	0.00
6/13/2024	18:14	191.5	0.987	0.00	0.07	0.45	0.00
6/13/2024	18:15	191.5	0.988	0.01	0.08	0.51	0.00
6/14/2024	7:30	191.4	1.001	0.82	2.12	0.28	0.00
6/14/2024	7:31	191.4	1.023	0.13	0.02	0.17	0.01
6/14/2024	7:32	191.5	1.023	0.15	0.00	0.07	0.01
6/14/2024	7:33	191.5	1.023	0.17	0.00	0.10	0.01
6/14/2024	7:34	191.5	1.023	0.18	0.00	0.05	0.00
6/14/2024	7:35	191.5	1.023	0.20	0.00	0.02	0.00
6/14/2024	7:36	191.5	1.023	0.10	0.00	0.04	0.00
6/14/2024	7:38	191.5	1.023	0.00	0.00	0.00	0.00
6/14/2024	7:40	191.5	1.024	0.00	0.00	-0.02	0.00
6/14/2024	7:41	191.5	1.023	0.09	0.00	0.00	0.00
6/14/2024	7:42	191.5	1.023	0.01	0.01	71.47	-0.02
6/14/2024	7:43	191.5	1.025	-0.05	0.00	99.10	0.00
6/14/2024	7:44	191.5	1.025	-0.02	0.00	99.06	0.00
6/14/2024	7:45	191.5	1.025	-0.05	0.00	99.04	0.00
6/14/2024	7:46	191.5	1.042	0.60	1.38	26.45	-0.01
6/14/2024	7:47	191.5	1.044	1.56	8.48	-0.61	-0.02
6/14/2024	7:48	192.1	1.079	1.47	11.77	-0.25	-0.01
6/14/2024	7:49	191.9	1.081	1.07	6.37	-0.08	0.00
6/14/2024	7:50	191.8	1.074	0.91	4.89	0.49	0.00
6/14/2024	7:51	191.8	1.074	0.92	2.90	-0.01	0.00
6/14/2024	7:52	191.8	1.072	0.54	1.61	-0.08	0.00
6/14/2024	7:53	191.7	1.070	0.37	1.30	0.04	0.00
6/14/2024	7:54	191.7	1.070	0.22	0.89	-0.08	0.00
6/14/2024	7:55	191.7	1.070	0.11	0.70	-0.04	0.00
6/14/2024	7:56	191.7	1.070	0.05	0.67	-0.02	0.00
6/14/2024	7:58	191.7	1.069	-0.03	0.48	-0.02	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	7:59	191.7	1.069	-0.03	0.37	0.05	0.00
6/14/2024	8:00	191.7	1.062	1.06	3.46	-0.03	0.00
6/14/2024	8:01	191.7	1.055	1.86	12.20	-0.01	-0.01
6/14/2024	8:02	191.7	1.059	2.00	16.70	-0.07	-0.01
6/14/2024	8:03	192.0	1.065	1.99	16.67	0.06	-0.01
6/14/2024	8:04	191.8	1.064	1.93	15.30	0.08	-0.01
6/14/2024	8:05	192.0	1.069	1.50	20.87	-0.21	-0.01
6/14/2024	8:06	191.9	1.063	2.39	16.12	-0.02	0.00
6/14/2024	8:07	191.9	1.067	1.33	22.17	-0.65	0.00
6/14/2024	8:08	192.1	1.063	2.38	15.63	0.01	-0.01
6/14/2024	8:09	191.8	1.063	2.45	16.54	-0.03	-0.01
6/14/2024	8:10	191.9	1.066	2.00	15.68	0.08	-0.01
6/14/2024	8:11	191.8	1.065	2.53	16.47	-0.07	0.00
6/14/2024	8:12	192.1	1.067	2.01	18.47	0.01	-0.01
6/14/2024	8:13	192.2	1.068	2.15	21.23	-0.04	-0.02
6/14/2024	8:14	192.0	1.063	2.37	15.38	0.00	-0.01
6/14/2024	8:15	191.8	1.063	2.45	16.00	-0.12	0.00
6/14/2024	8:16	192.0	1.066	2.01	18.54	0.06	-0.01
6/14/2024	8:17	192.2	1.069	2.08	20.09	-0.02	-0.01
6/14/2024	8:18	192.0	1.063	1.97	17.10	-0.01	-0.01
6/14/2024	8:20	192.0	1.064	2.04	16.45	0.05	0.00
6/14/2024	8:21	192.0	1.064	2.56	16.78	-0.07	0.00
6/14/2024	8:22	191.9	1.062	2.06	17.03	-0.07	-0.01
6/14/2024	8:23	192.0	1.064	1.56	19.77	-0.01	-0.01
6/14/2024	8:24	192.1	1.069	1.54	20.95	-0.49	-0.02
6/14/2024	8:25	192.1	1.064	1.62	17.90	0.05	-0.01
6/14/2024	8:26	192.0	1.065	2.00	18.58	-0.01	-0.01
6/14/2024	8:27	192.0	1.063	1.93	16.73	0.03	-0.01
6/14/2024	8:28	191.9	1.066	1.97	15.88	0.07	-0.01
6/14/2024	8:29	191.9	1.066	2.02	18.72	-0.04	0.00
6/14/2024	8:30	192.1	1.065	2.03	19.04	0.01	-0.01
6/14/2024	8:31	192.0	1.063	2.00	16.75	0.06	-0.01
6/14/2024	8:32	192.0	1.066	2.04	17.95	0.10	-0.01
6/14/2024	8:33	192.0	1.067	1.95	19.37	-0.09	-0.01
6/14/2024	8:34	192.1	1.064	1.55	19.95	-0.08	-0.01
6/14/2024	8:35	192.0	1.068	1.62	18.18	0.07	-0.01
6/14/2024	8:36	192.0	1.063	2.06	18.89	0.03	-0.01
6/14/2024	8:37	192.0	1.066	1.96	17.21	0.01	-0.01
6/14/2024	8:38	192.1	1.066	1.46	20.79	-0.15	-0.01
6/14/2024	8:39	192.1	1.062	2.01	17.28	0.06	-0.01
6/14/2024	8:40	192.0	1.065	1.48	20.98	-0.21	-0.01
6/14/2024	8:42	192.1	1.068	1.52	19.98	-0.08	-0.01
6/14/2024	8:43	192.0	1.064	2.02	16.69	0.07	-0.01
6/14/2024	8:44	192.0	1.066	1.53	20.56	-0.46	-0.01
6/14/2024	8:45	192.1	1.063	2.41	15.54	0.03	-0.01
6/14/2024	8:46	191.9	1.062	2.39	15.99	0.01	-0.01
6/14/2024	8:47	192.0	1.068	1.47	20.49	-0.21	-0.01
6/14/2024	8:48	192.2	1.062	2.00	16.53	0.11	-0.01
6/14/2024	8:49	191.9	1.062	1.98	15.35	0.04	-0.01
6/14/2024	8:50	192.0	1.067	1.55	20.66	-0.14	-0.01
6/14/2024	8:51	192.1	1.063	1.63	18.73	0.00	-0.01
6/14/2024	8:52	192.1	1.068	1.98	19.54	0.02	-0.01
6/14/2024	8:53	192.1	1.064	1.95	17.46	0.04	-0.01
6/14/2024	8:54	192.1	1.063	1.47	20.26	-0.35	-0.01
6/14/2024	8:55	192.1	1.068	1.38	21.79	-0.19	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	8:56	192.1	1.066	1.97	17.49	0.04	-0.01
6/14/2024	8:57	191.9	1.063	1.99	16.32	0.05	-0.01
6/14/2024	8:58	191.8	1.061	2.30	15.70	0.03	0.00
6/14/2024	8:59	192.0	1.068	1.22	23.12	-0.39	-0.01
6/14/2024	9:00	192.2	1.066	1.92	18.53	0.01	-0.01
6/14/2024	9:01	192.0	1.064	1.95	17.71	0.06	-0.01
6/14/2024	9:02	192.0	1.065	2.02	16.64	0.05	-0.01
6/14/2024	9:04	192.1	1.065	1.43	21.39	-0.32	-0.01
6/14/2024	9:05	192.1	1.064	1.65	18.24	-0.01	-0.01
6/14/2024	9:06	192.0	1.064	2.28	15.51	0.02	-0.01
6/14/2024	9:07	191.9	1.062	2.39	15.31	0.05	-0.01
6/14/2024	9:08	192.1	1.067	1.06	24.27	-0.52	-0.01
6/14/2024	9:09	192.2	1.064	2.02	17.66	0.10	-0.01
6/14/2024	9:10	192.1	1.066	2.02	17.79	0.04	-0.01
6/14/2024	9:11	192.0	1.067	2.04	18.88	-0.01	-0.01
6/14/2024	9:12	192.2	1.063	1.86	17.37	0.01	-0.01
6/14/2024	9:13	191.9	1.065	1.93	18.56	-0.01	-0.01
6/14/2024	9:14	192.2	1.063	1.95	17.16	0.05	-0.01
6/14/2024	9:15	191.9	1.062	1.95	15.45	0.08	-0.01
6/14/2024	9:16	192.0	1.066	2.52	17.40	0.02	-0.01
6/14/2024	9:17	192.1	1.066	1.41	21.16	-0.09	-0.01
6/14/2024	9:18	192.0	1.063	1.67	17.85	-0.02	-0.01
6/14/2024	9:19	192.1	1.066	1.97	18.36	-0.02	-0.01
6/14/2024	9:20	191.9	1.063	2.04	16.87	-0.01	-0.01
6/14/2024	9:21	192.2	1.067	1.36	22.67	-0.26	-0.01
6/14/2024	9:22	192.1	1.062	2.44	16.27	0.05	-0.01
6/14/2024	9:23	192.0	1.063	2.52	17.43	-0.03	0.00
6/14/2024	9:24	191.9	1.063	1.93	15.61	0.07	-0.01
6/14/2024	9:26	192.0	1.065	1.24	22.64	-0.43	-0.01
6/14/2024	9:27	192.2	1.066	1.96	18.47	0.43	-0.01
6/14/2024	9:28	192.1	1.062	2.28	15.56	-0.02	-0.01
6/14/2024	9:29	191.9	1.062	2.41	16.24	0.03	-0.01
6/14/2024	9:30	191.9	1.065	2.62	17.13	-0.02	0.00
6/14/2024	9:31	192.2	1.067	1.30	21.59	-0.31	-0.01
6/14/2024	9:32	192.1	1.063	2.07	18.58	0.02	-0.01
6/14/2024	9:33	192.1	1.062	2.34	15.94	0.00	0.00
6/14/2024	9:34	191.9	1.077	1.73	12.26	-0.20	-0.01
6/14/2024	9:35	191.9	1.072	0.88	4.70	-0.06	0.00
6/14/2024	9:36	191.8	1.070	0.68	2.39	-0.02	0.00
6/14/2024	9:37	191.8	1.068	0.76	2.87	-0.08	0.00
6/14/2024	9:38	191.8	1.067	0.80	2.92	-0.05	0.00
6/14/2024	9:39	191.8	1.068	0.36	1.27	-0.08	0.00
6/14/2024	9:40	191.8	1.068	0.01	0.68	-0.09	0.00
6/14/2024	9:41	191.8	1.068	-0.04	0.49	-0.10	0.00
6/14/2024	9:42	191.7	1.065	0.65	2.00	-0.02	-0.01
6/14/2024	9:43	191.7	1.054	1.74	11.90	0.05	-0.01
6/14/2024	9:44	191.7	1.056	2.22	14.70	0.02	-0.01
6/14/2024	9:45	191.7	1.060	1.94	17.93	0.03	-0.01
6/14/2024	9:46	192.0	1.069	1.88	20.97	0.02	-0.01
6/14/2024	9:48	192.1	1.062	2.29	15.79	0.03	-0.01
6/14/2024	9:49	191.8	1.060	2.34	15.51	0.02	-0.01
6/14/2024	9:50	191.8	1.064	1.53	20.27	-0.41	-0.01
6/14/2024	9:51	192.3	1.067	1.37	22.06	-0.34	-0.01
6/14/2024	9:52	192.0	1.060	2.34	15.60	0.03	-0.01
6/14/2024	9:53	191.8	1.061	2.26	15.63	0.02	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	9:54	191.9	1.065	1.92	18.75	-0.09	-0.01
6/14/2024	9:55	192.1	1.064	1.87	18.89	0.05	-0.01
6/14/2024	9:56	192.0	1.062	1.90	17.86	0.07	-0.01
6/14/2024	9:57	192.0	1.066	1.94	20.80	0.06	-0.01
6/14/2024	9:58	192.1	1.063	1.97	16.75	0.06	-0.01
6/14/2024	9:59	192.0	1.064	1.44	20.55	-0.18	-0.01
6/14/2024	10:00	192.1	1.062	2.35	16.24	0.03	-0.01
6/14/2024	10:01	191.9	1.064	1.45	20.99	-0.25	-0.01
6/14/2024	10:02	192.2	1.063	1.53	17.79	0.12	-0.01
6/14/2024	10:03	191.9	1.061	2.00	16.47	0.17	0.00
6/14/2024	10:04	191.9	1.065	2.14	16.17	0.10	-0.01
6/14/2024	10:05	192.1	1.066	1.12	22.55	-0.23	0.00
6/14/2024	10:06	192.1	1.061	2.28	15.70	0.02	-0.01
6/14/2024	10:07	191.9	1.064	1.45	20.51	-0.20	-0.01
6/14/2024	10:08	192.0	1.061	2.34	15.34	0.05	-0.01
6/14/2024	10:09	192.1	1.068	1.35	22.48	-0.49	-0.01
6/14/2024	10:11	192.1	1.063	2.00	17.33	0.09	-0.01
6/14/2024	10:12	191.9	1.061	1.91	15.54	0.08	-0.01
6/14/2024	10:13	191.8	1.060	2.46	16.92	-0.04	0.00
6/14/2024	10:14	192.1	1.066	1.24	23.31	-0.55	-0.01
6/14/2024	10:15	192.2	1.061	2.37	16.25	-0.01	-0.01
6/14/2024	10:16	192.0	1.061	2.38	16.40	-0.04	-0.01
6/14/2024	10:17	191.9	1.065	1.40	20.65	-0.27	-0.01
6/14/2024	10:18	192.1	1.063	1.58	18.25	-0.03	-0.01
6/14/2024	10:19	192.1	1.062	1.93	19.39	-0.10	-0.01
6/14/2024	10:20	192.0	1.062	1.54	17.78	0.08	-0.01
6/14/2024	10:21	191.9	1.062	1.94	17.44	0.02	-0.01
6/14/2024	10:22	192.0	1.066	2.00	17.09	-0.04	-0.01
6/14/2024	10:23	192.2	1.064	1.40	21.62	-0.27	-0.01
6/14/2024	10:24	192.2	1.065	1.44	21.15	-0.25	0.00
6/14/2024	10:25	192.0	1.060	2.30	15.74	0.00	-0.01
6/14/2024	10:26	191.8	1.063	2.47	16.40	-0.10	-0.01
6/14/2024	10:27	192.1	1.064	1.52	20.78	-0.18	-0.01
6/14/2024	10:28	192.0	1.060	2.25	15.51	0.02	-0.01
6/14/2024	10:29	192.0	1.065	1.37	20.66	-0.38	-0.01
6/14/2024	10:30	192.0	1.060	2.35	15.35	0.02	-0.01
6/14/2024	10:31	192.0	1.063	2.50	16.78	-0.10	0.00
6/14/2024	10:33	192.0	1.063	1.31	21.15	-0.39	-0.01
6/14/2024	10:34	192.1	1.062	1.56	19.28	-0.04	-0.01
6/14/2024	10:35	192.1	1.067	1.38	21.43	-0.26	-0.01
6/14/2024	10:36	192.1	1.062	1.59	17.83	0.06	-0.01
6/14/2024	10:37	192.0	1.063	1.90	17.72	0.02	-0.01
6/14/2024	10:38	192.1	1.063	1.49	19.56	0.03	-0.01
6/14/2024	10:39	192.1	1.064	1.47	19.83	-0.05	-0.01
6/14/2024	10:40	192.1	1.064	1.47	20.15	-0.11	-0.01
6/14/2024	10:41	192.1	1.063	1.94	16.86	0.03	-0.01
6/14/2024	10:42	192.1	1.064	1.41	20.20	-0.02	-0.01
6/14/2024	10:43	192.0	1.062	1.93	17.41	0.04	-0.01
6/14/2024	10:44	192.1	1.068	1.55	20.05	-0.18	-0.01
6/14/2024	10:45	192.1	1.076	1.42	7.26	-0.25	0.00
6/14/2024	10:46	192.0	1.069	0.75	1.88	-0.16	0.00
6/14/2024	10:47	191.9	1.067	0.05	0.53	-0.04	0.00
6/14/2024	10:48	191.8	1.066	-0.13	0.32	-0.05	0.00
6/14/2024	10:49	191.8	1.066	0.47	1.42	-0.06	0.00
6/14/2024	10:50	191.7	1.066	0.20	1.22	-0.03	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	10:51	191.7	1.065	0.43	1.59	-0.09	0.00
6/14/2024	10:52	191.8	1.056	1.71	8.51	0.02	-0.01
6/14/2024	10:53	191.7	1.054	1.94	13.47	0.00	-0.02
6/14/2024	10:55	191.7	1.057	2.01	14.65	-0.04	-0.01
6/14/2024	10:56	191.8	1.062	1.13	23.10	-0.75	-0.01
6/14/2024	10:57	192.2	1.065	1.93	17.24	0.00	-0.01
6/14/2024	10:58	192.0	1.067	1.96	17.76	0.00	-0.01
6/14/2024	10:59	192.0	1.060	2.39	15.66	0.06	-0.01
6/14/2024	11:00	191.8	1.058	2.33	15.62	-0.03	-0.01
6/14/2024	11:01	192.0	1.067	1.22	22.26	-0.76	0.00
6/14/2024	11:02	192.3	1.063	1.50	20.32	-0.20	-0.01
6/14/2024	11:03	192.1	1.059	2.41	15.89	-0.03	-0.01
6/14/2024	11:04	192.0	1.060	2.48	17.36	-0.07	-0.01
6/14/2024	11:05	192.1	1.062	2.00	17.47	0.08	-0.01
6/14/2024	11:06	192.1	1.064	1.37	20.72	-0.28	-0.01
6/14/2024	11:07	192.0	1.061	1.86	16.53	0.05	-0.01
6/14/2024	11:08	192.0	1.060	2.50	17.34	-0.11	-0.01
6/14/2024	11:09	192.1	1.064	1.54	20.45	-0.25	-0.01
6/14/2024	11:10	192.0	1.058	2.41	15.54	-0.01	-0.01
6/14/2024	11:11	191.9	1.063	1.48	20.73	-0.25	-0.01
6/14/2024	11:12	192.2	1.063	1.50	20.93	-0.22	-0.01
6/14/2024	11:13	192.1	1.061	1.96	16.91	0.03	-0.01
6/14/2024	11:14	192.0	1.062	1.45	20.11	-0.15	-0.01
6/14/2024	11:15	192.1	1.062	1.93	17.31	0.02	-0.01
6/14/2024	11:17	192.0	1.061	1.96	16.64	-0.04	-0.01
6/14/2024	11:18	191.9	1.062	2.05	18.65	0.02	-0.02
6/14/2024	11:19	192.2	1.064	1.92	18.81	0.02	-0.01
6/14/2024	11:20	192.0	1.062	1.97	19.29	0.02	-0.02
6/14/2024	11:21	192.3	1.063	1.61	20.11	-0.11	-0.01
6/14/2024	11:22	192.0	1.058	2.37	15.53	0.01	-0.01
6/14/2024	11:23	191.9	1.060	2.36	15.47	0.08	-0.01
6/14/2024	11:24	191.9	1.062	1.42	21.30	-0.46	-0.01
6/14/2024	11:25	192.3	1.062	1.61	18.76	0.00	-0.01
6/14/2024	11:26	192.0	1.061	1.99	17.49	0.04	-0.01
6/14/2024	11:27	192.2	1.065	1.34	22.63	-0.35	-0.01
6/14/2024	11:28	192.2	1.060	2.39	16.19	-0.01	0.00
6/14/2024	11:29	192.0	1.059	2.36	15.51	0.02	-0.01
6/14/2024	11:30	192.1	1.066	1.91	24.13	-0.43	-0.01
6/14/2024	11:31	192.2	1.059	2.39	15.71	0.03	-0.01
6/14/2024	11:32	192.0	1.060	2.03	18.79	-0.05	-0.01
6/14/2024	11:33	192.2	1.062	2.42	16.52	-0.05	-0.01
6/14/2024	11:34	192.0	1.060	2.55	17.05	0.00	-0.01
6/14/2024	11:35	192.1	1.064	1.53	20.07	-0.17	-0.01
6/14/2024	11:36	192.1	1.060	2.02	17.01	0.04	-0.01
6/14/2024	11:37	192.0	1.059	2.02	17.25	0.01	-0.01
6/14/2024	11:39	192.2	1.065	1.42	21.63	-0.29	-0.01
6/14/2024	11:40	192.0	1.057	2.38	15.71	-0.01	-0.01
6/14/2024	11:41	192.0	1.063	1.37	20.73	-0.29	-0.01
6/14/2024	11:42	192.2	1.062	1.65	17.93	0.09	-0.01
6/14/2024	11:43	192.1	1.062	2.02	17.97	-0.07	-0.02
6/14/2024	11:44	192.0	1.058	2.35	15.57	0.03	-0.01
6/14/2024	11:45	192.1	1.064	1.32	21.32	-0.43	-0.01
6/14/2024	11:46	192.1	1.059	2.39	15.65	0.04	-0.01
6/14/2024	11:47	192.0	1.063	1.36	20.78	-0.40	-0.01
6/14/2024	11:48	192.1	1.060	1.94	17.03	0.06	-0.01

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	11:49	192.0	1.059	1.96	15.75	0.02	-0.01
6/14/2024	11:50	192.2	1.065	1.46	21.37	-0.26	-0.01
6/14/2024	11:51	192.1	1.060	1.97	16.58	0.05	-0.01
6/14/2024	11:52	191.9	1.058	1.98	15.73	0.00	-0.01
6/14/2024	11:53	192.0	1.063	1.32	21.34	-0.37	-0.01
6/14/2024	11:54	192.2	1.074	1.74	12.43	-0.17	-0.01
6/14/2024	11:55	192.0	1.068	0.78	4.26	-0.12	-0.01
6/14/2024	11:56	191.9	1.066	0.66	2.37	-0.07	0.00
6/14/2024	11:57	191.8	1.065	0.56	1.87	-0.01	0.00
6/14/2024	11:58	191.8	1.064	1.00	2.68	-0.19	0.00
6/14/2024	11:59	191.8	1.065	0.16	0.86	-0.12	0.00
6/14/2024	12:01	191.8	1.064	-0.07	0.44	-0.08	0.00
6/14/2024	12:02	191.8	1.064	-0.16	0.22	-0.04	0.00
6/14/2024	12:03	191.8	1.060	0.91	2.75	-0.05	-0.01
6/14/2024	12:04	191.8	1.051	1.93	12.80	-0.06	-0.01
6/14/2024	12:05	191.7	1.054	2.00	14.75	-0.07	-0.01
6/14/2024	12:06	191.7	1.057	2.01	18.06	-0.18	-0.01
6/14/2024	12:07	192.1	1.062	2.00	19.85	-0.10	-0.01
6/14/2024	12:08	192.0	1.065	1.52	18.42	-0.01	-0.01
6/14/2024	12:09	192.0	1.059	2.02	17.02	0.00	-0.02
6/14/2024	12:10	191.9	1.060	2.05	17.69	0.04	-0.01
6/14/2024	12:11	191.9	1.058	1.95	15.88	0.09	-0.01
6/14/2024	12:12	192.0	1.059	1.55	20.02	-0.23	-0.01
6/14/2024	12:13	192.1	1.062	1.57	19.05	-0.09	-0.01
6/14/2024	12:14	192.1	1.062	1.32	21.96	-0.37	-0.01
6/14/2024	12:15	192.3	1.062	2.03	18.76	0.04	-0.01
6/14/2024	12:16	192.0	1.057	2.36	15.68	-0.01	-0.01
6/14/2024	12:17	192.0	1.059	1.94	18.28	0.06	-0.01
6/14/2024	12:18	192.2	1.063	2.02	18.84	0.00	-0.01
6/14/2024	12:19	192.1	1.062	2.05	19.37	0.03	-0.02
6/14/2024	12:20	192.1	1.058	2.35	15.70	0.00	-0.01
6/14/2024	12:21	192.0	1.058	2.46	16.65	0.04	-0.01
6/14/2024	12:23	192.2	1.065	1.25	22.84	-0.38	-0.01
6/14/2024	12:24	192.2	1.059	1.99	17.51	0.01	-0.01
6/14/2024	12:25	192.0	1.060	1.96	15.94	0.08	-0.01
6/14/2024	12:26	192.0	1.061	1.47	19.85	-0.03	-0.01
6/14/2024	12:27	192.1	1.059	1.90	17.19	0.06	-0.01
6/14/2024	12:28	192.1	1.062	1.41	19.97	-0.19	-0.01
6/14/2024	12:29	192.1	1.073	1.64	11.87	-0.24	-0.01
6/14/2024	12:30	192.0	1.067	0.76	2.42	-0.10	0.00
6/14/2024	12:31	191.9	1.065	0.36	1.24	-0.11	0.00
6/14/2024	12:32	191.9	1.064	0.01	0.65	-0.08	0.00
6/14/2024	12:33	191.8	1.064	-0.04	0.42	-0.07	0.00
6/14/2024	12:34	191.9	1.064	0.28	1.15	-0.11	0.00
6/14/2024	12:35	191.8	1.064	0.35	1.40	-0.07	0.00
6/14/2024	12:36	191.8	1.064	0.38	1.41	-0.07	-0.01
6/14/2024	12:37	191.8	1.066	0.39	1.41	-0.05	0.00
6/14/2024	12:38	191.8	1.024	0.14	0.80	-0.04	0.00
6/14/2024	12:39	191.8	1.024	-0.14	0.20	0.03	0.00
6/14/2024	12:40	191.7	1.023	-0.10	0.04	-0.02	0.00
6/14/2024	12:41	191.7	1.023	-0.11	0.01	-0.07	0.00
6/14/2024	12:42	191.7	1.023	-0.10	0.00	-0.04	0.00
6/14/2024	12:43	191.6	1.023	-0.12	0.00	-0.07	0.00
6/14/2024	12:44	191.6	1.023	0.00	0.00	-0.02	0.00
6/14/2024	12:46	191.6	1.023	-0.11	0.00	-0.05	0.00

BASF - McIntosh, AL
Boiler No. 7 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
6/14/2024	12:48	191.6	1.023	0.00	0.00	0.00	0.00
6/14/2024	12:49	191.6	1.023	-0.04	0.00	-0.05	0.00
6/14/2024	12:50	191.7	1.023	-0.02	0.00	-0.08	0.00
6/14/2024	12:51	191.6	1.022	0.00	0.01	72.46	-0.02
6/14/2024	12:52	191.7	1.024	-0.04	0.00	99.23	0.00
6/14/2024	12:53	191.7	1.024	-0.01	0.00	99.27	-0.01
6/14/2024	12:54	191.6	1.024	-0.07	0.00	99.36	-0.01
6/14/2024	12:56	191.6	1.024	-0.04	0.00	99.14	-0.01
6/14/2024	12:57	191.6	1.023	-0.11	0.00	44.76	-0.02
6/14/2024	12:58	191.7	1.023	-0.05	0.00	-0.03	0.00
6/14/2024	12:59	191.7	0.998	-0.05	0.00	-0.03	0.00
6/14/2024	13:00	191.6	0.989	-0.01	0.00	-0.04	0.00

Last Page of Report

Appendix E: ANALYTICAL DATA PACKAGES

Table of Contents

Appendix	Description
E.1	Waste Liquid Fuel Analyses
E.2	Stack Gas Analyses – Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls

Appendix E.1

Waste Liquid Fuel Analyses



ANALYTICAL REPORT

PREPARED FOR

Attn: Jason LaCroix
Alliance Source Testing, LLC
255 Grant St. SE Suite 600
Decatur AL 35601

Generated 7/22/2024 11:29 AM

JOB DESCRIPTION

BASF 2024-2594 - Waste Feeds D240

JOB NUMBER

140-37218-1

Eurofins Knoxville

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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7/22/2024 11:29 AM

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Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Method Summary	5
Sample Summary	6
Case Narrative	7
QC Association	8
Client Sample Results	9
Default Detection Limits	17
QC Sample Results	18
Chronicle	19
Certification Summary	21
Inorganic Sample Data	22
General Chemistry Data	22
Gen Chem Cover Page	23
Gen Chem Sample Data	24
Gen Chem QC Data	32
Gen Chem ICV/CCV	32
Gen Chem Duplicates	33
Gen Chem LCS/LCSD	34
Gen Chem MDL	36
Gen Chem Analysis Run Log	38
Gen Chem Prep Data	39
Gen Chem Raw Data	42
Shipping and Receiving Documents	55
Client Chain of Custody	56

Definitions/Glossary

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Method	Method Description	Protocol	Laboratory
D240	Heat of Combustion	ASTM	EET KNX

Protocol References:

ASTM = ASTM International

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-37218-1	WASTE FEED - RUN 1A	Waste	06/11/24 13:30	06/19/24 09:00
140-37218-3	WASTE FEED - RUN 2A	Waste	06/11/24 18:21	06/19/24 09:00
140-37218-5	WASTE FEED - RUN 3A	Waste	06/12/24 12:51	06/19/24 09:00
140-37218-7	WASTE FEED - RUN 4A	Waste	06/12/24 17:43	06/19/24 09:00
140-37218-9	WASTE FEED - RUN 5A	Waste	06/13/24 12:14	06/19/24 09:00
140-37218-11	WASTE FEED - RUN 6A	Waste	06/13/24 17:30	06/19/24 09:00
140-37218-13	WASTE FEED - RUN 7A	Waste	06/14/24 12:22	06/19/24 09:00
140-37218-15	WASTE FEED - RUN 4A DUP	Waste	06/12/24 17:45	06/19/24 09:00

**Job Narrative
140-37218-1**

Receipt

The samples were received on 6/19/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.1° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

General Chemistry

Gross Calorific Value: The heat of combustion (gross calorific value) of the samples was determined using SOP number KNOX-WC-0010 (based on ASTM Method D5865 for solids and ASTM Method D240 for liquids). A waste feed sample is combusted in an oxygen bomb that has been placed in a bomb calorimeter. The energy released during this combustion process is captured in the calorimeter, and the temperature rise of a water bath surrounding the bomb is measured. The temperature rise is proportional to the heat liberated during the combustion in calories. The gross calorific value is calculated from the temperature rise, the sample weight, and the calibration coefficient of the calorimeter. Certain extraneous sources of heat are assessed, and the effect of these heat sources is accounted for in the calculation, as well as the effect of various accelerants that are added to enhance combustion of the sample. The gross heat of combustion is calculated in units of cal/g using the following equation:

$$Q \text{ (gross)} = [(\Delta tEE) - (e1+e2+e3+e4)] / m$$

Where:

Q (gross) = Gross calorific value at constant volume as determined, cal/g

EE = Heat capacity of the calorimeter, cal/°C

Δt = Corrected temperature rise as measured by the calorimeter, °C

e1 = Correction for heat of formation of nitric acid in calories, calculated by the calorimeter based on the energy released by the sample

e2 = Correction for sulfur, which is usually 0

e3 = Correction for fuse wire

e4 = Correction for spike addition that is calculated by the calorimeter using the spike weight benzoic acid equivalent (grams) times the benzoic acid heat of combustion (6318 cal/g)

m = Mass of the sample, g

The results are converted to Btu/lb, as necessary using the following conversion factor: 1 cal/g = 1.8 Btu/lb.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

QC Association Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

General Chemistry

Analysis Batch: 88820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37218-1	WASTE FEED - RUN 1A	Total/NA	Waste	D240	
140-37218-3	WASTE FEED - RUN 2A	Total/NA	Waste	D240	
140-37218-5	WASTE FEED - RUN 3A	Total/NA	Waste	D240	
140-37218-7	WASTE FEED - RUN 4A	Total/NA	Waste	D240	
140-37218-9	WASTE FEED - RUN 5A	Total/NA	Waste	D240	
140-37218-11	WASTE FEED - RUN 6A	Total/NA	Waste	D240	
140-37218-13	WASTE FEED - RUN 7A	Total/NA	Waste	D240	
140-37218-15	WASTE FEED - RUN 4A DUP	Total/NA	Waste	D240	
LCS 140-88820/3	Lab Control Sample	Total/NA	Waste	D240	
LCSD 140-88820/4	Lab Control Sample Dup	Total/NA	Waste	D240	
140-37218-3 DU	WASTE FEED - RUN 2A	Total/NA	Waste	D240	

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 1A

Date Collected: 06/11/24 13:30

Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-1

Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11200		1560	311	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-37218-3

Date Collected: 06/11/24 18:21

Matrix: Waste

Date Received: 06/19/24 09:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11500		1630	327	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 3A

Date Collected: 06/12/24 12:51

Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-5

Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11300		1680	336	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 4A

Date Collected: 06/12/24 17:43

Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-7

Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11400		1690	339	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 5A
Date Collected: 06/13/24 12:14
Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-9
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11400		1630	326	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 6A
Date Collected: 06/13/24 17:30
Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-11
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11300		1660	333	BTU/lb			07/16/24 14:39	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 7A
Date Collected: 06/14/24 12:22
Date Received: 06/19/24 09:00

Lab Sample ID: 140-37218-13
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11300		1670	334	BTU/lb			07/16/24 14:43	1

Client Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-37218-15

Date Collected: 06/12/24 17:45

Matrix: Waste

Date Received: 06/19/24 09:00

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11200		1590	318	BTU/lb			07/16/24 14:44	1

Default Detection Limits

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

General Chemistry

Analyte	RL	MDL	Units
Gross Calorific Value	1800	360	BTU/lb

QC Sample Results

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Method: D240 - Heat of Combustion

Lab Sample ID: LCS 140-88820/3
Matrix: Waste
Analysis Batch: 88820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gross Calorific Value	20600	20200		BTU/lb		98	98 - 102

Lab Sample ID: LCSD 140-88820/4
Matrix: Waste
Analysis Batch: 88820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gross Calorific Value	20600	20220		BTU/lb		98	98 - 102	0	2.0

Lab Sample ID: 140-37218-3 DU
Matrix: Waste
Analysis Batch: 88820

Client Sample ID: WASTE FEED - RUN 2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	11500		11490		BTU/lb		0.2	10

Lab Chronicle

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 1A

Lab Sample ID: 140-37218-1

Date Collected: 06/11/24 13:30

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5781 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-37218-3

Date Collected: 06/11/24 18:21

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5510 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 3A

Lab Sample ID: 140-37218-5

Date Collected: 06/12/24 12:51

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5364 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 4A

Lab Sample ID: 140-37218-7

Date Collected: 06/12/24 17:43

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5316 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 5A

Lab Sample ID: 140-37218-9

Date Collected: 06/13/24 12:14

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5522 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 6A

Lab Sample ID: 140-37218-11

Date Collected: 06/13/24 17:30

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5407 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Client Sample ID: WASTE FEED - RUN 7A

Lab Sample ID: 140-37218-13

Date Collected: 06/14/24 12:22

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5396 g	0.5 g	88820	07/16/24 14:43	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-37218-15

Date Collected: 06/12/24 17:45

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5659 g	0.5 g	88820	07/16/24 14:44	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-88820/3

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.4979 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-88820/4

Date Collected: N/A

Matrix: Waste

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.4967 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-37218-3 DU

Date Collected: 06/11/24 18:21

Matrix: Waste

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5509 g	0.5 g	88820	07/16/24 14:39	TXR	EET KNX
Instrument ID: NOEQUIP										

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Alliance Source Testing, LLC
Project/Site: BASF 2024-2594 - Waste Feeds D240

Job ID: 140-37218-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-25
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-25
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	06-30-25
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	07-31-24
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380-23-18	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-31-24

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-37218-1

SDG No.:

Project: BASF 2024-2594 - Waste Feeds D240

Client Sample ID	Lab Sample ID
WASTE FEED - RUN 1A	140-37218-1
WASTE FEED - RUN 2A	140-37218-3
WASTE FEED - RUN 3A	140-37218-5
WASTE FEED - RUN 4A	140-37218-7
WASTE FEED - RUN 5A	140-37218-9
WASTE FEED - RUN 6A	140-37218-11
WASTE FEED - RUN 7A	140-37218-13
WASTE FEED - RUN 4A DUP	140-37218-15

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 1A

Lab Sample ID: 140-37218-1

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/11/2024 13:30

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11200	1560	311	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 2A

Lab Sample ID: 140-37218-3

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/11/2024 18:21

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11500	1630	327	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 3A

Lab Sample ID: 140-37218-5

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/12/2024 12:51

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11300	1680	336	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 4A

Lab Sample ID: 140-37218-7

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/12/2024 17:43

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11400	1690	339	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 5A

Lab Sample ID: 140-37218-9

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/13/2024 12:14

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11400	1630	326	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 6A
Lab Name: Eurofins Knoxville
SDG ID.:
Matrix: Waste
Reporting Basis: WET
Preparation Batch Number:

Lab Sample ID: 140-37218-11
Job No.: 140-37218-1
Date Sampled: 06/13/2024 17:30
Date Received: 06/19/2024 09:00
Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11300	1660	333	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 7A
Lab Name: Eurofins Knoxville
SDG ID.:
Matrix: Waste
Reporting Basis: WET
Preparation Batch Number:

Lab Sample ID: 140-37218-13
Job No.: 140-37218-1
Date Sampled: 06/14/2024 12:22
Date Received: 06/19/2024 09:00
Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11300	1670	334	BTU/lb			1	D240

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED - RUN 4A DUP

Lab Sample ID: 140-37218-15

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG ID.:

Matrix: Waste

Date Sampled: 06/12/2024 17:45

Reporting Basis: WET

Date Received: 06/19/2024 09:00

Preparation Batch Number:

Instrument ID: NONE

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11200	1590	318	BTU/lb			1	D240

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-37218-1
SDG No.: _____
Analyst: TXR Batch Start Date: 07/16/2024
Reporting Units: BTU/lb Analytical Batch No.: 88820

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:39	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010
2	CCV	14:39	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-37218-1
SDG No.: _____
Matrix: Waste

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 88820 Date: 07/16/2024 14:39								
D240	WASTE FEED - RUN 2A	140-37218-3	Gross Calorific Value	11500	BTU/lb			
D240	WASTE FEED - RUN 2A	140-37218-3 DU	Gross Calorific Value	11490	BTU/lb	0.2	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job No.: 140-37218-1

SDG No.:

Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 88820		Date: 07/16/2024 14:39									
						LCS Source: 85NTISOCTP_00005					
D240	LCS 140-88820/3	Gross Calorific Value	20200		BTU/lb	20600	98	98-102	0	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-37218-1
SDG No.:
Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 88820		Date: 07/16/2024 14:39									
						LCSD Source: 85NTISOCTP_00005					
D240	LCSD 140-88820/4	Gross Calorific Value	20220		BTU/lb	20600	98	98-102	0	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job Number: 140-37218-1

SDG Number: _____

Matrix: Waste

Instrument ID: NOEQUIP

Method: D240

MDL Date: 09/25/2019 10:07

Analyte	Wavelength/ Mass	RL (BTU/lb)	MDL (BTU/lb)
Gross Calorific Value		1800	360

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-37218-1
SDG Number: _____
Matrix: Waste Instrument ID: NOEQUIP
Method: D240 XMDL Date: 01/28/2015 15:50

Analyte	Wavelength/ Mass	XRL (BTU/lb)	XMDL (BTU/lb)
Gross Calorific Value		1800	130

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-37218-1
SDG No.: _____
Instrument ID: NOEQUIP Analysis Method: D240
Start Date: 07/16/2024 14:39 End Date: 07/16/2024 14:44

Lab Sample Id	D/F	T Y P e	Time	Analytes																			
				G C V																			
CCV 140-88820/1	1		14:39	X																			
CCV 140-88820/2	1		14:39	X																			
LCS 140-88820/3	1	T	14:39	X																			
LCSD 140-88820/4	1	T	14:39	X																			
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
140-37218-1	1	T	14:39	X																			
140-37218-3	1	T	14:39	X																			
140-37218-3 DU	1	T	14:39	X																			
140-37218-5	1	T	14:39	X																			
140-37218-7	1	T	14:39	X																			
140-37218-9	1	T	14:39	X																			
140-37218-11	1	T	14:39	X																			
140-37218-13	1	T	14:43	X																			
140-37218-15	1	T	14:44	X																			
ZZZZZZ			14:44																				
ZZZZZZ			14:44																				
ZZZZZZ			14:44																				
ZZZZZZ			14:44																				

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37218-1

SDG No.: _____

Batch Number: 88820 Batch Start Date: 07/16/24 14:39 Batch Analyst: Runions, Trinity GBatch Method: D240 Batch End Date: 07/18/24 14:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
CCV 140-88820/1		D240			1.0536 g	0.5 g	1	4992	2393.12 Cal/Degree C	
CCV 140-88820/2		D240			1.0467 g	0.5 g	4	4993	2403.93 Cal/Degree C	
LCS 140-88820/3		D240			0.4979 g	0.5 g	1	4994	2371.42 Cal/Degree C	0.0435 g
LCSD 140-88820/4		D240			0.4967 g	0.5 g	4	4995	2385.48 Cal/Degree C	0.0443 g
140-37218-A-1	WASTE FEED - RUN 1A	D240	Waste	T	0.5781 g	0.5 g	4	5008	2385.48 Cal/Degree C	0.0476 g
140-37218-A-3	WASTE FEED - RUN 2A	D240	Waste	T	0.5510 g	0.5 g	1	5009	2371.42 Cal/Degree C	0.0439 g
140-37218-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T	0.5509 g	0.5 g	4	5010	2385.48 Cal/Degree C	0.0429 g
140-37218-A-5	WASTE FEED - RUN 3A	D240	Waste	T	0.5364 g	0.5 g	1	5011	2371.42 Cal/Degree C	0.0466 g
140-37218-A-7	WASTE FEED - RUN 4A	D240	Waste	T	0.5316 g	0.5 g	4	5012	2385.48 Cal/Degree C	0.0432 g
140-37218-A-9	WASTE FEED - RUN 5A	D240	Waste	T	0.5522 g	0.5 g	1	5013	2371.42 Cal/Degree C	0.0435 g
140-37218-A-11	WASTE FEED - RUN 6A	D240	Waste	T	0.5407 g	0.5 g	4	5014	2385.48 Cal/Degree C	0.0431 g
140-37218-A-13	WASTE FEED - RUN 7A	D240	Waste	T	0.5396 g	0.5 g	1	5015	2371.42 Cal/Degree C	0.0424 g
140-37218-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T	0.5659 g	0.5 g	4	5016	2385.48 Cal/Degree C	0.0435 g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	PaperWt	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr
CCV 140-88820/1		D240					15.00 Cal	0 g	2.7922 Degrees C	10.00 Cal
CCV 140-88820/2		D240					15.00 Cal	0 g	2.7615 Degrees C	10.00 Cal
LCS 140-88820/3		D240					15.00 Cal	0.043031813865 1472 g	2.4815 Degrees C	10.00 Cal
LCSD 140-88820/4		D240					15.00 Cal	0.043823203545 4258 g	2.4654 Degrees C	10.00 Cal
140-37218-A-1	WASTE FEED - RUN 1A	D240	Waste	T	0.1947 g	0.3292 g	15.00 Cal	0.674675452674 897 g	3.3107 Degrees C	10.00 Cal
140-37218-A-3	WASTE FEED - RUN 2A	D240	Waste	T	0.1980 g	0.3413 g	15.00 Cal	0.691679518835 074 g	3.3345 Degrees C	10.00 Cal

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37218-1

SDG No.: _____

Batch Number: 88820 Batch Start Date: 07/16/24 14:39 Batch Analyst: Runions, Trinity GBatch Method: D240 Batch End Date: 07/18/24 14:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	PaperWt	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr
140-37218-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T	0.2063 g	0.3438 g	15.00 Cal	0.699707310857866 g	3.3382 Degrees C	10.00 Cal
140-37218-A-5	WASTE FEED - RUN 3A	D240	Waste	T	0.2004 g	0.3263 g	15.00 Cal	0.672778683127572 g	3.2167 Degrees C	10.00 Cal
140-37218-A-7	WASTE FEED - RUN 4A	D240	Waste	T	0.2067 g	0.3286 g	15.00 Cal	0.676878364988921 g	3.2135 Degrees C	10.00 Cal
140-37218-A-9	WASTE FEED - RUN 5A	D240	Waste	T	0.2642 g	0.3285 g	15.00 Cal	0.712854647040203 g	3.3857 Degrees C	10.00 Cal
140-37218-A-11	WASTE FEED - RUN 6A	D240	Waste	T	0.2540 g	0.3268 g	15.00 Cal	0.703488129154796 g	3.2946 Degrees C	10.00 Cal
140-37218-A-13	WASTE FEED - RUN 7A	D240	Waste	T	0.2530 g	0.3294 g	15.00 Cal	0.706170829376385 g	3.3231 Degrees C	10.00 Cal
140-37218-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T	0.2569 g	0.3417 g	15.00 Cal	0.728604711934156 g	3.4192 Degrees C	10.00 Cal

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	HeatofComb	85INBENZACIDP 00010	85NTISOCTP 00005			
CCV 140-88820/1		D240			6318.40324981017 Cal/g	1.0536 mL				
CCV 140-88820/2		D240			6318.38415496322 Cal/g	1.0467 mL				
LCS 140-88820/3		D240			11222.7429805182 Cal/g		0.4979 g			
LCSD 140-88820/4		D240			11232.7106744514 Cal/g		0.4967 g			
140-37218-A-1	WASTE FEED - RUN 1A	D240	Waste	T	6244.61014703339 Cal/g					
140-37218-A-3	WASTE FEED - RUN 2A	D240	Waste	T	6374.71649727768 Cal/g					
140-37218-A-3 DU	WASTE FEED - RUN 2A	D240	Waste	T	6384.93110546379 Cal/g					
140-37218-A-5	WASTE FEED - RUN 3A	D240	Waste	T	6250.05778150634 Cal/g					
140-37218-A-7	WASTE FEED - RUN 4A	D240	Waste	T	6328.48470654628 Cal/g					
140-37218-A-9	WASTE FEED - RUN 5A	D240	Waste	T	6338.46619703006 Cal/g					
140-37218-A-11	WASTE FEED - RUN 6A	D240	Waste	T	6268.84484557056 Cal/g					
140-37218-A-13	WASTE FEED - RUN 7A	D240	Waste	T	6289.61916604893 Cal/g					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37218-1

SDG No.: _____

Batch Number: 88820 Batch Start Date: 07/16/24 14:39 Batch Analyst: Runions, Trinity GBatch Method: D240 Batch End Date: 07/18/24 14:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	HeatofComb	85INBENZACIDP 00010	85NTISOOCTP 00005			
140-37218-A-15	WASTE FEED - RUN 4A DUP	D240	Waste	T	6234.509005124 58 Cal/g					

Batch Notes	
Perform Calculation (0=No, 1=Yes)	Yes
Nominal Amount Used	0.5 g
Heat of Combustion Value of Tape	6250 Cal/g
Heat of Combustion Value of Paper	3937.3 Cal/g

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

General Chemistry Raw Data Report

Job ID: 140-37218-1

Batch: 88820
Method: D240Analyst Initials: TXR
Instrument: NONE

Lab Sample ID: CCV 140-88820/1

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13314.139328	Cal/g	1.0536 g	0.5 g

Lab Sample ID: CCV 140-88820/2

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13226.90539	Cal/g	1.0467 g	0.5 g

Lab Sample ID: LCS 140-88820/3

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11175.60746	Cal/g	0.4979 g	0.5 g

Lab Sample ID: LCSD 140-88820/4

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11158.574784	Cal/g	0.4967 g	0.5 g

Lab Sample ID: 140-37218-A-1

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7220.018252	Cal/g	0.5781 g	0.5 g

Lab Sample ID: 140-37218-A-3

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7024.93758	Cal/g	0.5510 g	0.5 g

Lab Sample ID: 140-37218-A-3 DU

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7034.917092	Cal/g	0.5509 g	0.5 g

Lab Sample ID: 140-37218-A-5

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6705.061988	Cal/g	0.5364 g	0.5 g

Lab Sample ID: 140-37218-A-7

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6728.44494	Cal/g	0.5316 g	0.5 g

Lab Sample ID: 140-37218-A-9

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7000.202068	Cal/g	0.5522 g	0.5 g

Lab Sample ID: 140-37218-A-11

Analysis Date: Jul 16, 2024 14:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6779.128816	Cal/g	0.5407 g	0.5 g

General Chemistry Raw Data Report

Job ID: 140-37218-1

Batch: 88820 (Continued)	Analyst Initials: TXR
Method: D240	Instrument: NONE

Lab Sample ID: 140-37218-A-13

Analysis Date: Jul 16, 2024 14:43

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6787.757004	Cal/g	0.5396 g	0.5 g

Lab Sample ID: 140-37218-A-15

Analysis Date: Jul 16, 2024 14:44

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7056.217292	Cal/g	0.5659 g	0.5 g

TestAmerica Knoxville
Calorimeter Calibration Worksheet
Determination of Energy Equivalent (EE)
per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<i>BOMB ID=1</i>					
CCV-062424-1b	06/24/24	2386.1100	2371.4170	12.6	0.53%
CCV-062624-1	06/26/24	2370.1100			
CCV-062724-1	06/27/24	2382.2100			
CCV-070124-1	07/01/24	2356.1600			
CCV-070224-1	07/02/24	2359.6000			
CCV-070824-1	07/08/24	2363.3400			
CCV-070924-1	07/09/24	2358.4300			
CCV-071124-1	07/11/24	2375.9900			
CCV-071524-1	07/15/24	2369.1000			
CCV-071724-1	07/17/24	2393.1200			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-071724-1	07/17/24	2393.1200	2371.4170	0.9%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCV-071724-1
 Work Order Number: NA
 Analysis Date: 7/17/24
 Std. or Determination? STD
 Analyst: TMB/T6R

Gross Heat of Combustion (cal/g): NA
 Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Parr 6200	1104420
Sample ID: 4992	07/17/24 08:41:36
Method	Dynamic Type Final
Standardization Bomb ID	1
Temp 24.0251	EE Value 2393.12
Jacket T 30.0036	Temp. Rise 2.7922
Weight 1.05360	Spike Wght 0.00000
Fuse 15.0000	Acid 10.0000
Sulfur 0.00000	
Gross Heat	11269.6
	Btu/lb

T6R
7/17/24

Determination of Energy Equivalent (EE) per SOP KNOX-WC-0010

Initial Calibration Data

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
BOMB ID=4					
CCV-062624-4	06/26/24	2397.2800	2385.4760	13.4	0.56%
CCV-062724-4	06/27/24	2397.6100			
CCV-070124-4	07/01/24	2378.5300			
CCV-070224-4a	07/02/24	2360.2100			
CCV-070224-4b	07/02/24	2380.4800			
CCV-070824-4	07/08/24	2385.4900			
CCV-070924-4	07/09/24	2372.7300			
CCV-071124-4	07/11/24	2383.1300			
CCV-071524-4	07/15/24	2395.3700			
CCV-071724-4	07/17/24	2403.9300			

Daily Calibration Check Standard

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-071724-4	07/17/24	2403.9300	2385.4760	0.8%

TestAmerica Laboratories
Bomb Calorimeter Data Worksheet
Measurement of Heat of Combustion
per SOP KNOX-WC-0010

Sample ID: CCV-071724-4
 Work Order Number: NA
 Analysis Date: 7/17/24
 Std. or Determination? STD
 Analyst: TMB/TGR

Gross Heat of Combustion (cal/g): NA
 Gross Heat of Combustion (Btu/lb): NA

Bomb Calorimeter Data Report

Parr	14104420
Sample ID:	4993 07/17/24 08:49:27
Method	Dynamic Type Final
Standardization Bomb ID	4
Init. Temp	22.6327 EE Value 2403.93
Bucket T	30.0024 Temp. Rise 2.7615
Weight	1.04670 Spike Wght 0.00000
Fuse	15.0000 Acid 10.0000
Sulfur	0.00000
	Gross Heat 11285.5
	Btu/lb

TGR
7/17/24

Parr 6200 14104420

Sample ID: 4994 07/17/24 09:00:49

Method Dynamic Type Final

Mode Determination Bomb ID 1

Init. Temp 26.1026 EE Value 2371.42

Jacket T 30.0020 Temp. Rise 2.4815

Weight 0.49790 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21183.4

Btu/lb

T6R
7/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4995 07/17/24 09:11:43

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 24.8028 EE Value 2385.48

Jacket T 30.0039 Temp. Rise 2.4654

Weight 0.49670 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21122.0

Btu/lb

T6R
7/17/24

Parr 6200

Sample ID: 4996 07/17/24 10:46:46

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.7274 EE Value 2371.42

Jacket T 30.0037 Temp. Rise 1.8721

Weight 0.50280 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 15804.0

Btu/lb

TmB
7/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4997 07/17/24 10:54:57

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 23.9233 EE Value 2385.48

Jacket T 30.0023 Temp. Rise 3.2486

Weight 0.50070 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27769.0

Btu/lb

Parr 62

Sample ID: 4998 07/17/24 11:14:34

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.4157 EE Value 2371.42

Jacket T 30.0059 Temp. Rise 3.2499

Weight 0.50440 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27413.7

Btu/lb

TMB
7/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5000 07/17/24 11:33:44

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.6434 EE Value 2371.42

Jacket T 30.0049 Temp. Rise 3.1992

Weight 0.52130 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26109.6

Btu/lb

TMB
7/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4999 07/17/24 11:21:57

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.9384 EE Value 2385.48

Jacket T 30.0027 Temp. Rise 3.2528

Weight 0.50240 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27711.4

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5001 07/17/24 11:44:29

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 28.1496 EE Value 2385.48

Jacket T 30.0004 Temp. Rise 3.1148

Weight 0.59720 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22320.0

Btu/lb

TMB
7/17/24

Parr

Sample ID: 5003 07/17/24 13:15:24

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Temp 26.9717 EE Value 2371.42

Bucket T 30.0021 Temp. Rise 3.4517

Weight 0.57810 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25408.4

Btu/lb

TmB
7/17/24

Parr

Sample ID: 5006 07/17/24 13:48:59

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Temp 28.4194 EE Value 2371.42

Bucket T 30.0016 Temp. Rise 3.1323

Weight 0.52820 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25228.0

Btu/lb

TmB
7/17/24

Parr

Sample ID: 5005 07/17/24 13:39:12

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Temp 25.8996 EE Value 2385.48

Bucket T 30.0026 Temp. Rise 3.2796

Weight 0.52790 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26590.8

Btu/lb

TmB
7/17/24

Parr

Sample ID: 5008 07/17/24 15:01:12

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Temp 27.2412 EE Value 2385.48

Bucket T 30.0037 Temp. Rise 3.3107

Weight 0.57810 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24512.4

Btu/lb

TmB
7/17/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5009 07/18/24 08:25:12

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 19.3998 EE Value 2371.42

Jacket T 30.0053 Temp. Rise 3.3345

Weight 0.55100 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25750.6

Btu/lb

TmB
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5011 07/18/24 08:41:33

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 22.5497 EE Value 2371.42

Jacket T 30.0016 Temp. Rise 3.2167

Weight 0.53640 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25513.9

Btu/lb

TmB
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5010 07/18/24 08:34:18

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 19.3192 EE Value 2385.48

Jacket T 30.0059 Temp. Rise 3.3382

Weight 0.55090 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25937.2

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5012 07/18/24 08:49:32

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 22.5475 EE Value 2385.48

Jacket T 30.0051 Temp. Rise 3.2135

Weight 0.53160 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25871.9

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5013 07/18/24 09:02:15

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.0228 EE Value 2371.42

Jacket T 30.0010 Temp. Rise 3.3857

Weight 0.55220 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26090.6

Btu/lb

TMB
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5015 07/18/24 09:20:17

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.5991 EE Value 2371.42

Jacket T 30.0023 Temp. Rise 3.3231

Weight 0.53960 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26204.5

Btu/lb

TGR
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5014 07/18/24 09:11:53

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.2490 EE Value 2385.48

Jacket T 30.0020 Temp. Rise 3.2946

Weight 0.54070 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26080.3

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5016 07/18/24 10:24:01

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.3210 EE Value 2385.48

Jacket T 29.9991 Temp. Rise 3.4192

Weight 0.56590 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25864.1

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5017 07/18/24 10:32:09

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.9361 EE Value 2371.42

Jacket T 30.0039 Temp. Rise 2.5337

Weight 0.53610 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20089.7

Btu/lb

T612
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5021 07/18/24 11:51:40

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.6994 EE Value 2371.42

Jacket T 30.0053 Temp. Rise 2.3801

Weight 0.51310 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19712.7

Btu/lb

T612
7/18/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5018 07/18/24 10:53:48

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 26.7346 EE Value 2385.48

Jacket T 30.0042 Temp. Rise 2.5080

Weight 0.53760 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19947.8

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 5022 07/18/24 12:08:57

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.3834 EE Value 2385.48

Jacket T 30.0045 Temp. Rise 2.3671

Weight 0.51580 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19617.9

Btu/lb

Eurofins TestAmerica Knoxville Heat of Combustion Data Review / Narrative Checklist

Methods: ASTM D5865, D240 by SOP KNOX-WC-0010, Rev. 8

Page 1 of 1

Batch Number:	88820	Job Number(s):	240-206767, 140-37550, 140-37572, 140-37218, 140-37611, 140-37537		
Analysis Date:	07-18-2024	Analyst Name:	TMB/TGR	Method Citation	<input type="checkbox"/> D5865 <input checked="" type="checkbox"/> D240

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
Section 1. Calibration					
1. Was a weekly calibration check performed for each bomb/bucket combination and %D ≤ 1%?		X			X
2. Is the %D for the weekly calibration check ≤1%?		X		If not ≤1.0%, discard data and repeat.	X
3. Was the final weekly calibration successful? (%D ≤1.0%)		X			X
4. Is the initial calibration complete, with at least ten calibration runs?		X			X
5. Are the previous ten calibration runs recorded on the calorimeter calibration worksheet?		X			X
6. Does the rolling average show a %RSD ≤1.0%?		X			X
Section 2. Client Sample Analysis					
1. Were all special project requirements met? (Review Project Notes, Project Documents, and Comments in Backlog)		X			X
2. Were sample IDs verified?		X			X
3. Were all weights entered directly into TALS?		X			X
4. Were all transcriptions checked? (Check transcription of data from calorimeter to TALS worksheet (Δt, Acid Correction)		X			X
5. Were any data collected by writing the values on paper?			X		X
6. Are all written entries neat, professional, and scanned into the documents section of the TALS batch?	N/A				X
7. Calculations checked for error? (Verify that the final instrument result = calculated result on spreadsheet (to 3 significant figures))		X			X
Section 3. Preparation/Matrix QC					
1. LCS/LCSD done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (98-102%)		X			X
3. LCS/LCSD RPD within laboratory established QC limits?(≤2.0% RPD)		X			X
4. Was a duplicate sample analyzed per batch of up to 10 samples?		X			X
5. DUP RPD ≤10.0%? If no, list ID:		X		____ [F5] OS &/or DUP < 5xRL, absolute difference <RL ____ [Option] MS/MSD/DUP-%RPD.NCM: _____	X
Section 4. TALS Reporting					
1. If Batch Information Complete?		X			X
2. Batch QC linked correctly?		X			X
3. Is raw data from calorimeter and calibration summary attached as a default file?		X			X
4. Are all non-conformances documented (NCM Manager)?	N/A			NCM Number(s): _____	X
5. Was appropriate narrative NCM added (NCM Create/Edit)?		X		<input checked="" type="checkbox"/> [5853]	X
6. Final report acceptable? (Results, units, analysis dates are correct. Flags and/or errors were addressed.)		X			X

Reviewed by: TMB/TGR	Date: 07-18-2024
Comments:	
2 nd Level Reviewer: DCW	Date: 7/18/24
Comments:	

Shipping and Receiving Documents

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:		COC No:	
Alliance Source Testing 6110 Copperhead Road Geismar, LA 70734		Tel/Fax: 225-773-8654		Lab Contact:		Carrier:		COCs	
256-351-0121 Phone BTRreports@stacktest.com		Analysis Turnaround Time		ASTM D240 - Higher Heating Value				Sampler:	
Project Name: BASF Corporation 2024-2594		CALENDAR DAYS <input type="checkbox"/> WORKING DAYS <input type="checkbox"/>		Perform MS / MSD (Y / N)				For Lab Use Only:	
Site: Pasadena, TX		TAT if different from Below		Filtered Sample (Y / N)				Walk-in Client:	
P O #		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Value				Lab Sampling:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Job / SDG No.:	
Waste Feed - Run 1A		6/11/24		1330		C		140-37218 Chain of Custody	
Waste Feed - Run 1B		6/11/24		1331		C		Sample Specific Notes:	
Waste Feed - Run 2A		6/11/24		1821		C		Archive at Lab	
Waste Feed - Run 2B		6/11/24		1822		C		Archive at Lab	
Waste Feed - Run 3A		6/12/24		1251		C		Archive at Lab	
Waste Feed - Run 3B		6/12/24		1252		C		Archive at Lab	
Waste Feed - Run 4A		6/12/24		1743		C		Archive at Lab	
Waste Feed - Run 4B		6/12/24		1744		C		Archive at Lab	
Waste Feed - Run 5A		6/13/24		1214		C		Archive at Lab	
Waste Feed - Run 5B		6/13/24		1215		C		Archive at Lab	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other									
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Corr'd:		Therm ID No.:	
Relinquished by: [Signature]		Company: A-11100001		Received by: [Signature]		Company: 15-11-11-11		Date/Time: 6/11/24 1000	
Relinquished by: [Signature]		Company: A-11100001		Received by: [Signature]		Company: 15-11-11-11		Date/Time: 6/11/24 09:00	
Relinquished by: [Signature]		Company: A-11100001		Received by: [Signature]		Company: 15-11-11-11		Date/Time: 6/11/24 09:00	

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Project Manager: Jason LaCroix

Tel/Fax: 225-773-8654

Client Contact

Alliance Source Testing AST Office: BTR

6110 Copperhead Road

Geismar, LA 70734

256-351-0121 Phone

BTRreports@stacktest.com

Project Name: BASF Corporation 2024-2594

Site: Pasadena, TX

P O #

Site Contact:

Lab Contact:

Carrier:

COC No: of COCs

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=Grab)

Matrix

of Cont.

Filtered Sample (Y / N)

Perform MS / MSD (Y / N)

ASTM D240 - Higher Heating Value

Sample Specific Notes:

Waste Feed - Run 6A

Waste Feed - Run 6B

Waste Feed - Run 7A

Waste Feed - Run 7B

Waste Feed - Run 4 A Dup

Waste Feed - Run 4 B Dup

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Received by: Date/Time: Company:

Received by: Date/Time: Company:

Received by: Date/Time: Company:

Custody Seal No.: Therm ID No.:

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Page 57 of 58

11:29:32 AM

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	HAND DELIVERED
2. Were ambient air containers received intact?		/		<input type="checkbox"/> Checked in lab	NO CUSTODY SEALS
3. The coolers/containers custody seal if present, is it intact?		/		<input type="checkbox"/> Yes <input type="checkbox"/> NA	RECEIVED AMBIENT AT 20.0/CT-20.1C DATE 6-19-24
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: SC76 Correction factor: +0.1°C		/		<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	10
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/	/		<input checked="" type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?		/		<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____
17. Were VOA samples received without headspace?		/		<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	Exp Date: _____
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____		/			Analyst: _____
19. For 1613B water samples is pH<9?		/			Date: _____
20. For rad samples was sample activity info. Provided?		/		<input type="checkbox"/> If no, notify lab to adjust <input type="checkbox"/> Project missing info	Time: _____
Project #: _____ PM Instructions: _____					

Sample Receiving Associate: *[Signature]*

Date: 6-19-24

QA026R33.doc, 11/10/23

Appendix E.2

Stack Gas Analyses –

Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls



ANALYTICAL REPORT

PREPARED FOR

Attn: Jason LaCroix
Alliance Source Testing LLC
255 Grant St. SE Suite 600
Decatur AL 35601

Generated 9/6/2024 4:11 PM Revision 2

JOB DESCRIPTION

BASF 24-2594 - M23 PAH/PCB

JOB NUMBER

140-37232-1

Eurofins Knoxville

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Revision 2

Authorized for release by
Courtney M Adkins, Project Manager II
Courtney.Adkins@et.eurofinsus.com
865 291-3019

Table of Contents

Cover Title Page	1
Data Summaries	5
Definitions	5
Method Summary	6
Sample Summary	7
Case Narrative	8
QC Association	10
Client Sample Results	12
Default Detection Limits	39
Surrogate Summary	40
Isotope Dilution Summary	41
QC Sample Results	46
Chronicle	53
Certification Summary	58
Manual Integration Summary	59
Organic Sample Data	96
Dioxin	96
Method 23 Revised (PAHs)	96
Method 23 Revised (PAHs) QC Summary	97
Method 23 Revised (PAHs) Sample Data	103
Standards Data	461
Method 23 Revised (PAHs) ICAL Data	461
Method 23 Revised (PAHs) CCAL Data	728
Raw QC Data	889
Method 23 Revised (PAHs) Blank Data	889
Method 23 Revised (PAHs) LCS/LCSD Data	923

Table of Contents

Method 23 Revised (PAHs) Run Logs	976
Method 23 Revised (PAHs) Prep Data	991
Method 23 Revised (PCBs)	999
Method 23 Revised (PCBs) QC Summary	1000
Method 23 Revised (PCBs) Sample Data	1018
Standards Data	1667
Method 23 Revised (PCBs) ICAL Data	1667
Method 23 Revised (PCBs) Resolution Data	2533
Method 23 Revised (PCBs) CCAL Data	2539
Raw QC Data	2836
Method 23 Revised (PCBs) Blank Data	2836
Method 23 Revised (PCBs) LCS/LCSD Data	2902
Method 23 Revised (PCBs) Run Logs	3028
Method 23 Revised (PCBs) Prep Data	3036
Shipping and Receiving Documents	3044
Client Chain of Custody	3045

Definitions/Glossary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
C	The compound co-eluted with other compounds
C129	The compound co-eluted with PCB-129
C156	The compound co-eluted with PCB-156
C20	The compound co-eluted with PCB-20
C90	The compound co-eluted with PCB-90
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
S	Ion suppression

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method	Method Description	Protocol	Laboratory
23	Chlorinated Biphenyl Congeners (Stationary Source)	EPA	EET KNX
23	Polycyclic Aromatic Hydrocarbons (Stationary Source)	EPA	EET KNX
Combined Prep	Extraction, Source Air Samples (Combined)	None	EET KNX
Split	Source Air Split	None	EET KNX

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Air	06/11/24 15:40	06/19/24 09:00
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Air	06/11/24 18:55	06/19/24 09:00
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Air	06/12/24 14:00	06/19/24 09:00
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Air	06/12/24 18:30	06/19/24 09:00
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Air	06/13/24 15:30	06/19/24 09:00
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Air	06/13/24 18:05	06/19/24 09:00
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Air	06/14/24 13:15	06/19/24 09:00
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Air	06/14/24 16:00	06/19/24 09:00
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Air	06/11/24 00:00	06/19/24 09:00

Job Narrative
140-37232-1

Revision

The report being provided is a revision of the original report sent on 7/26/2024. The report (revision 2) is being revised due to: Revising report to update various M23 data issues, IDAs, FS, MDLs.

Report revision history

Revision 1 - 8/6/2024 - Reason - Sampling Site Correction Needed on COC.

Receipt

The samples were received on 6/19/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7° C, 2.1° C and 3.3° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

High-Res

The Pre-Sampling Adsorbent Standards and Pre-Extraction Filter Recovery Standard for the PAH analysis were not quantitated by isotope dilution technique, but rather by internal standards that were added after extraction & concentration. These standards were removed from the final report forms. The recoveries were recalculated by isotope dilution technique outside the LIMS system and are presented in a table in the narrative. The target analytes were quantitated by isotope dilution technique.

Sample #	13C6-Benzo(c)fluorene	13C12-Benzo(j)fluoranthene	Anthracene-d10
1	107	98	89
2	118	110	95
3	115	104	80
4	113	104	101
5	128	107	76
6	127	98	72
7	122	109	69
8	129	100	93

The EPA Method 23 states to quantitate the sample results against the continuing calibration verification. Knoxville's approach is to quantitate the sample results against the initial calibration, consistent with other Hi-Res methodology.

The reporting limit (RL) and method detection limit (MDL) for the PAH analytes have not been established. The MDL is set equal to the RL. The reporting limit is supported by the initial calibration.

The Pre-Extraction Filter Surrogate, PCB-159L, was not spiked onto the filter due to unavailability of the standard when the extraction started.

Method 23: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 140-88192 and 140-88337 and analytical batch 140-88920 recovered outside acceptance limits for Naphthalene. The entire sample was consumed during analysis or extraction therefore, the data have been reported.

Method 23: The method blank for preparation batch 140-88192 and 140-88337 contained multiple analytes above the reporting limit (RL). The entire sample was consumed during analysis or extraction, therefore, the data have been reported.

Method 23: One or more Isotope Dilution Analyte (IDA) recoveries associated with the following samples are below the method recommended limit: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED (140-37232-6) and M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED (140-37232-8). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 23: Filter surrogate recovery for Anthracene-d10 was slightly below QC limits for the following sample, even after recalculating vs its respective IDA. See the recovery table in the narrative:

M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED (140-37232-7)

Method 23: The opening PAH Continuing Calibration Verification, (CCV 140-88999/1) was slightly outside QC limits for one or more Isotope Dilution Analyte (IDA) recoveries. All target analyte recoveries are in QC limits. After discussion with the project manager, it was decided to report the data with narration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

PAH Filter Surrogate Anthracene-d10 was spiked 10 x lower than the method requirement. Recoveries were calculated based on the amount spiked.

Method Split: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED (140-37232-1), M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED (140-37232-2), M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED (140-37232-3), M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED (140-37232-4), M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED (140-37232-5), M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED (140-37232-6), M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED (140-37232-7), M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED (140-37232-8) and A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER (140-37232-14).

Method Split: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: During column cleanup, the 2:3 methylene chloride and hexane mixture was not added to the column after the 35 mL hexane elution step. all samples were affected.

Method Split: original samples were pulled from archive and continued through SIM PAH column clean ups.

M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED (140-37232-1), M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED (140-37232-2), M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED (140-37232-3), M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED (140-37232-4), M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED (140-37232-5), M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED (140-37232-6), M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED (140-37232-7), M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED (140-37232-8) and A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER (140-37232-14)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

QC Association Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Specialty Organics

Prep Batch: 88192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	Combined Prep	
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Combined Prep	
MB 140-88192/21-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-88192/19-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-88192/20-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

Prep Batch: 88193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	Combined Prep	
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	Combined Prep	
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Combined Prep	
MB 140-88193/21-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-88193/19-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-88193/20-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

Cleanup Batch: 88337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	Split	88192
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	Split	88192
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	Split	88192
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	Split	88192
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	Split	88192
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	Split	88192
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	Split	88192
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	Split	88192
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Split	88192
MB 140-88192/21-B	Method Blank	Total/NA	Air	Split	88192
LCS 140-88192/19-B	Lab Control Sample	Total/NA	Air	Split	88192
LCSD 140-88192/20-B	Lab Control Sample Dup	Total/NA	Air	Split	88192

Cleanup Batch: 88338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	Split	88193
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	Split	88193
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	Split	88193
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	Split	88193
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	Split	88193
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	Split	88193

QC Association Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Specialty Organics (Continued)

Cleanup Batch: 88338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	Split	88193
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	Split	88193
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Split	88193
MB 140-88193/21-B	Method Blank	Total/NA	Air	Split	88193
LCS 140-88193/19-B	Lab Control Sample	Total/NA	Air	Split	88193
LCSD 140-88193/20-B	Lab Control Sample Dup	Total/NA	Air	Split	88193

Analysis Batch: 88747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	23	88338
MB 140-88193/21-B	Method Blank	Total/NA	Air	23	88338
LCS 140-88193/19-B	Lab Control Sample	Total/NA	Air	23	88338
LCSD 140-88193/20-B	Lab Control Sample Dup	Total/NA	Air	23	88338

Analysis Batch: 88780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	23	88338
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	23	88338
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	23	88338
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	23	88338
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	23	88338
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	23	88338
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	23	88338
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	23	88338

Analysis Batch: 88920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 140-88192/19-B	Lab Control Sample	Total/NA	Air	23	88337
LCSD 140-88192/20-B	Lab Control Sample Dup	Total/NA	Air	23	88337

Analysis Batch: 88945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBIN	Total/NA	Air	23	88337
MB 140-88192/21-B	Method Blank	Total/NA	Air	23	88337

Analysis Batch: 88978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBIN	Total/NA	Air	23	88337
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBIN	Total/NA	Air	23	88337
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	23	88337

Analysis Batch: 88999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBIN	Total/NA	Air	23	88337
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBIN	Total/NA	Air	23	88337
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBIN	Total/NA	Air	23	88337
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBIN	Total/NA	Air	23	88337
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMB	Total/NA	Air	23	88337

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED

Lab Sample ID: 140-37232-1

Date Collected: 06/11/24 15:40

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.584	J S	0.600	0.132	0.0199	ng/Sample		07/15/24 18:33	1
PCB-18	ND	C	0.600	0.285	0.0157	ng/Sample		07/15/24 18:33	1
PCB-28	2.77	C20 B	0.600	0.252	0.0174	ng/Sample		07/15/24 18:33	1
PCB-44	4.65	C B	0.900	0.390	0.0190	ng/Sample		07/15/24 18:33	1
PCB-52	1.33		0.300	0.132	0.0201	ng/Sample		07/15/24 18:33	1
PCB-66	1.42		0.300	0.120	0.0147	ng/Sample		07/15/24 18:33	1
PCB-77	0.145	J	0.300	0.126	0.0167	ng/Sample		07/15/24 18:33	1
PCB-81	ND		0.300	0.0960	0.0175	ng/Sample		07/15/24 18:33	1
PCB-101	0.304	J C90	0.900	0.390	0.0105	ng/Sample		07/15/24 18:33	1
PCB-105	0.0771	J	0.300	0.102	0.0197	ng/Sample		07/15/24 18:33	1
PCB-114	ND		0.300	0.165	0.0209	ng/Sample		07/15/24 18:33	1
PCB-118	0.159	J q	0.300	0.183	0.0200	ng/Sample		07/15/24 18:33	1
PCB-123	ND		0.300	0.171	0.0230	ng/Sample		07/15/24 18:33	1
PCB-126	ND		0.300	0.123	0.0237	ng/Sample		07/15/24 18:33	1
PCB-128	ND	C	0.600	0.204	0.00208	ng/Sample		07/15/24 18:33	1
PCB-138	0.182	J C129	1.20	0.510	0.00216	ng/Sample		07/15/24 18:33	1
PCB-153	0.109	J q C B	0.600	0.249	0.00187	ng/Sample		07/15/24 18:33	1
PCB-156	0.0179	J q C	0.600	0.255	0.00217	ng/Sample		07/15/24 18:33	1
PCB-157	0.0179	J q C156	0.600	0.255	0.00217	ng/Sample		07/15/24 18:33	1
PCB-167	0.0103	J q	0.300	0.180	0.00161	ng/Sample		07/15/24 18:33	1
PCB-169	0.00302	J q	0.300	0.123	0.00151	ng/Sample		07/15/24 18:33	1
PCB-170	0.00901	J q	0.300	0.132	0.000605	ng/Sample		07/15/24 18:33	1
PCB-180	0.0302	J C	0.600	0.204	0.000474	ng/Sample		07/15/24 18:33	1
PCB-187	0.00960	J q	0.300	0.126	0.000503	ng/Sample		07/15/24 18:33	1
PCB-189	ND		0.300	0.147	0.0182	ng/Sample		07/15/24 18:33	1
PCB-195	ND		0.300	0.159	0.000854	ng/Sample		07/15/24 18:33	1
PCB-206	ND		0.300	0.171	0.0236	ng/Sample		07/15/24 18:33	1
PCB-209	0.0302	J	0.300	0.138	0.00143	ng/Sample		07/15/24 18:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	61		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-3L	73		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-4L	70		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-15L	72	S	20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-19L	77		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-37L	80		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-54L	94		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-77L	84		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-81L	83		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-104L	95		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-105L	100		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-114L	100		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-118L	92		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-123L	95		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-126L	99		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-155L	87		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-156L	94	C	20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-157L	94	C156	20 - 145	06/27/24 14:35	07/15/24 18:33	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED

Lab Sample ID: 140-37232-1

Date Collected: 06/11/24 15:40

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	86		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-169L	91		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-170L	96		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-188L	93		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-189L	97		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-202L	89		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-205L	97		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-206L	96		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-208L	95		20 - 145	06/27/24 14:35	07/15/24 18:33	1
PCB-209L	97		20 - 145	06/27/24 14:35	07/15/24 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	75		20 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-111L	81		20 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-178L	78		20 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-8L	99	S	70 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-79L	110		70 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-95L	111		70 - 130	06/27/24 14:35	07/15/24 18:33	1
PCB-153L	91		70 - 130	06/27/24 14:35	07/15/24 18:33	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	874	B **	750	750	1.11	ng/Sample		07/19/24 02:02	10
2-Methylnaphthalene	438	J B	750	750	0.530	ng/Sample		07/19/24 02:02	10
Acenaphthylene	40.1	B	30.0	30.0	0.295	ng/Sample		07/19/24 02:02	10
Acenaphthene	119	J B	300	300	0.625	ng/Sample		07/19/24 02:02	10
Fluorene	261	J B	300	300	0.373	ng/Sample		07/19/24 02:02	10
Phenanthrene	887	B	60.0	60.0	0.639	ng/Sample		07/19/24 02:02	10
Anthracene	104	J B	300	300	0.624	ng/Sample		07/19/24 02:02	10
Fluoranthene	125	B	60.0	60.0	0.325	ng/Sample		07/19/24 02:02	10
Pyrene	132	B	60.0	60.0	0.325	ng/Sample		07/19/24 02:02	10
Benzo[a]anthracene	3.94	J B	60.0	60.0	0.348	ng/Sample		07/19/24 02:02	10
Chrysene	22.1	J B	60.0	60.0	0.346	ng/Sample		07/19/24 02:02	10
Benzo[b]fluoranthene	16.2	J B	300	300	0.0928	ng/Sample		07/19/24 02:02	10
Benzo[k]fluoranthene	5.79	J B	60.0	60.0	0.0943	ng/Sample		07/19/24 02:02	10
Benzo[e]pyrene	211	B	60.0	60.0	0.0812	ng/Sample		07/19/24 02:02	10
Benzo[a]pyrene	9.68	J B	30.0	30.0	0.0778	ng/Sample		07/19/24 02:02	10
Perylene	4.81	J B	30.0	30.0	0.0726	ng/Sample		07/19/24 02:02	10
Indeno[1,2,3-cd]pyrene	10.1	J B	30.0	30.0	0.0822	ng/Sample		07/19/24 02:02	10
Dibenz(a,h)anthracene	4.14	J B	60.0	60.0	0.0489	ng/Sample		07/19/24 02:02	10
Benzo[g,h,i]perylene	20.8	J B	60.0	60.0	0.0631	ng/Sample		07/19/24 02:02	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	56		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-2-Methylnaphthalene	56		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Acenaphthylene	81		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Acenaphthene	74		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Fluorene	93		20 - 130	06/27/24 14:06	07/19/24 02:02	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 -
COMBINED**

Lab Sample ID: 140-37232-1

Date Collected: 06/11/24 15:40

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	94		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C3-Pyrene	89		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Benzo(a)anthracene	60		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Chrysene	64		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Benzo(b)fluoranthene	82		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Benzo(k)fluoranthene	85		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C4-Benzo(e)pyrene	78		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C4-Benzo(a)pyrene	87		20 - 130	06/27/24 14:06	07/19/24 02:02	10
Perylene-d12	85		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Indeno(1,2,3-cd)pyrene	72		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Dibenz(a,h)anthracene	81		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C12-Benzo(ghi)perylene	70		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Anthracene	92		20 - 130	06/27/24 14:06	07/19/24 02:02	10
13C6-Phenanthrene	87		20 - 130	06/27/24 14:06	07/19/24 02:02	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

Lab Sample ID: 140-37232-2

Date Collected: 06/11/24 18:55

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.270	J	0.600	0.132	0.0133	ng/Sample		07/16/24 03:58	1
PCB-18	0.284	J C	0.600	0.285	0.00251	ng/Sample		07/16/24 03:58	1
PCB-28	0.180	J C20 B	0.600	0.252	0.00957	ng/Sample		07/16/24 03:58	1
PCB-44	0.345	J C B	0.900	0.390	0.0240	ng/Sample		07/16/24 03:58	1
PCB-52	0.198	J q	0.300	0.132	0.0254	ng/Sample		07/16/24 03:58	1
PCB-66	0.0901	J	0.300	0.120	0.0186	ng/Sample		07/16/24 03:58	1
PCB-77	0.0979	J q	0.300	0.126	0.0215	ng/Sample		07/16/24 03:58	1
PCB-81	ND		0.300	0.0960	0.0217	ng/Sample		07/16/24 03:58	1
PCB-101	0.178	J q C90	0.900	0.390	0.00579	ng/Sample		07/16/24 03:58	1
PCB-105	0.0595	J q	0.300	0.102	0.0171	ng/Sample		07/16/24 03:58	1
PCB-114	ND		0.300	0.165	0.0186	ng/Sample		07/16/24 03:58	1
PCB-118	0.155	J	0.300	0.183	0.0172	ng/Sample		07/16/24 03:58	1
PCB-123	ND		0.300	0.171	0.0194	ng/Sample		07/16/24 03:58	1
PCB-126	ND		0.300	0.123	0.0200	ng/Sample		07/16/24 03:58	1
PCB-128	0.0752	J q C B	0.600	0.204	0.00172	ng/Sample		07/16/24 03:58	1
PCB-138	0.418	J C129	1.20	0.510	0.00179	ng/Sample		07/16/24 03:58	1
PCB-153	0.244	J q C B	0.600	0.249	0.00155	ng/Sample		07/16/24 03:58	1
PCB-156	0.0180	J q C	0.600	0.255	0.00187	ng/Sample		07/16/24 03:58	1
PCB-157	0.0180	J q C156	0.600	0.255	0.00187	ng/Sample		07/16/24 03:58	1
PCB-167	ND		0.300	0.180	0.00126	ng/Sample		07/16/24 03:58	1
PCB-169	0.00638	J	0.300	0.123	0.00125	ng/Sample		07/16/24 03:58	1
PCB-170	0.0233	J q	0.300	0.132	0.000312	ng/Sample		07/16/24 03:58	1
PCB-180	0.0294	J C	0.600	0.204	0.000246	ng/Sample		07/16/24 03:58	1
PCB-187	0.0244	J q	0.300	0.126	0.000261	ng/Sample		07/16/24 03:58	1
PCB-189	ND		0.300	0.147	0.00651	ng/Sample		07/16/24 03:58	1
PCB-195	ND		0.300	0.159	0.00218	ng/Sample		07/16/24 03:58	1
PCB-206	ND		0.300	0.171	0.0462	ng/Sample		07/16/24 03:58	1
PCB-209	0.0231	J	0.300	0.138	0.00123	ng/Sample		07/16/24 03:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	61		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-3L	66		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-4L	67		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-15L	73		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-19L	71		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-37L	78		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-54L	82		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-77L	84		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-81L	83		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-104L	84		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-105L	92		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-114L	89		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-118L	88		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-123L	86		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-126L	90		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-155L	83		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-156L	93 C		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-157L	93 C156		20 - 145	06/27/24 14:35	07/16/24 03:58	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

Lab Sample ID: 140-37232-2

Date Collected: 06/11/24 18:55

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	88		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-169L	92		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-170L	92		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-188L	89		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-189L	90		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-202L	89		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-205L	91		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-206L	97		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-208L	90		20 - 145	06/27/24 14:35	07/16/24 03:58	1
PCB-209L	107		20 - 145	06/27/24 14:35	07/16/24 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	69		20 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-111L	75		20 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-178L	77		20 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-8L	114		70 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-79L	111		70 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-95L	115		70 - 130	06/27/24 14:35	07/16/24 03:58	1
PCB-153L	97		70 - 130	06/27/24 14:35	07/16/24 03:58	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	417	J B **	750	750	0.518	ng/Sample		07/20/24 05:09	10
2-Methylnaphthalene	153	J B	750	750	0.333	ng/Sample		07/20/24 05:09	10
Acenaphthylene	2.31	J B	30.0	30.0	0.310	ng/Sample		07/20/24 05:09	10
Acenaphthene	17.1	J B	300	300	0.448	ng/Sample		07/20/24 05:09	10
Fluorene	19.2	J B	300	300	0.521	ng/Sample		07/20/24 05:09	10
Phenanthrene	76.7	B	60.0	60.0	0.564	ng/Sample		07/20/24 05:09	10
Anthracene	3.50	J B	300	300	0.550	ng/Sample		07/20/24 05:09	10
Fluoranthene	57.2	J B	60.0	60.0	0.183	ng/Sample		07/20/24 05:09	10
Pyrene	97.2	B	60.0	60.0	0.187	ng/Sample		07/20/24 05:09	10
Benzo[a]anthracene	7.76	J B	60.0	60.0	0.143	ng/Sample		07/20/24 05:09	10
Chrysene	21.1	J B	60.0	60.0	0.134	ng/Sample		07/20/24 05:09	10
Benzo[b]fluoranthene	18.7	J B	300	300	0.0865	ng/Sample		07/20/24 05:09	10
Benzo[k]fluoranthene	5.47	J B	60.0	60.0	0.0786	ng/Sample		07/20/24 05:09	10
Benzo[e]pyrene	68.9	B	60.0	60.0	0.0682	ng/Sample		07/20/24 05:09	10
Benzo[a]pyrene	5.64	J B	30.0	30.0	0.0666	ng/Sample		07/20/24 05:09	10
Perylene	1.28	J B	30.0	30.0	0.0618	ng/Sample		07/20/24 05:09	10
Indeno[1,2,3-cd]pyrene	14.6	J B	30.0	30.0	0.0741	ng/Sample		07/20/24 05:09	10
Dibenz(a,h)anthracene	5.39	J B	60.0	60.0	0.0370	ng/Sample		07/20/24 05:09	10
Benzo[g,h,i]perylene	67.2	B	60.0	60.0	0.0574	ng/Sample		07/20/24 05:09	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	64		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-2-Methylnaphthalene	68		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Acenaphthylene	91		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Acenaphthene	81		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Fluorene	89		20 - 130	06/27/24 14:06	07/20/24 05:09	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 -
COMBINED**

Lab Sample ID: 140-37232-2

Date Collected: 06/11/24 18:55

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	91		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C3-Pyrene	84		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Benzo(a)anthracene	65		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Chrysene	69		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Benzo(b)fluoranthene	76		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Benzo(k)fluoranthene	80		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C4-Benzo(e)pyrene	77		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C4-Benzo(a)pyrene	87		20 - 130	06/27/24 14:06	07/20/24 05:09	10
Perylene-d12	86		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Indeno(1,2,3-cd)pyrene	91		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Dibenz(a,h)anthracene	96		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C12-Benzo(ghi)perylene	87		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Anthracene	83		20 - 130	06/27/24 14:06	07/20/24 05:09	10
13C6-Phenanthrene	69		20 - 130	06/27/24 14:06	07/20/24 05:09	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

Lab Sample ID: 140-37232-3

Date Collected: 06/12/24 14:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.186	J S	0.600	0.132	0.0156	ng/Sample		07/16/24 04:59	1
PCB-18	0.155	J C S	0.600	0.285	0.00491	ng/Sample		07/16/24 04:59	1
PCB-28	0.691	B C20	0.600	0.252	0.0131	ng/Sample		07/16/24 04:59	1
PCB-44	1.79	C B	0.900	0.390	0.0143	ng/Sample		07/16/24 04:59	1
PCB-52	0.500		0.300	0.132	0.0152	ng/Sample		07/16/24 04:59	1
PCB-66	0.381		0.300	0.120	0.0111	ng/Sample		07/16/24 04:59	1
PCB-77	0.0610	J	0.300	0.126	0.0129	ng/Sample		07/16/24 04:59	1
PCB-81	ND		0.300	0.0960	0.0129	ng/Sample		07/16/24 04:59	1
PCB-101	0.131	J C90 q	0.900	0.390	0.00685	ng/Sample		07/16/24 04:59	1
PCB-105	0.0515	J q	0.300	0.102	0.0111	ng/Sample		07/16/24 04:59	1
PCB-114	ND		0.300	0.165	0.0116	ng/Sample		07/16/24 04:59	1
PCB-118	0.116	J	0.300	0.183	0.0116	ng/Sample		07/16/24 04:59	1
PCB-123	ND		0.300	0.171	0.0131	ng/Sample		07/16/24 04:59	1
PCB-126	ND		0.300	0.123	0.0137	ng/Sample		07/16/24 04:59	1
PCB-128	0.0384	J C B	0.600	0.204	0.00263	ng/Sample		07/16/24 04:59	1
PCB-138	0.117	J C129 q	1.20	0.510	0.00273	ng/Sample		07/16/24 04:59	1
PCB-153	0.160	J C B q	0.600	0.249	0.00236	ng/Sample		07/16/24 04:59	1
PCB-156	0.00585	J C q	0.600	0.255	0.00278	ng/Sample		07/16/24 04:59	1
PCB-157	0.00585	J C156 q	0.600	0.255	0.00278	ng/Sample		07/16/24 04:59	1
PCB-167	ND		0.300	0.180	0.00200	ng/Sample		07/16/24 04:59	1
PCB-169	ND		0.300	0.123	0.00191	ng/Sample		07/16/24 04:59	1
PCB-170	0.00509	J q	0.300	0.132	0.000271	ng/Sample		07/16/24 04:59	1
PCB-180	0.187	J C q	0.600	0.204	0.000209	ng/Sample		07/16/24 04:59	1
PCB-187	0.246	J	0.300	0.126	0.000222	ng/Sample		07/16/24 04:59	1
PCB-189	ND		0.300	0.147	0.00473	ng/Sample		07/16/24 04:59	1
PCB-195	0.0221	J	0.300	0.159	0.00768	ng/Sample		07/16/24 04:59	1
PCB-206	ND		0.300	0.171	0.0925	ng/Sample		07/16/24 04:59	1
PCB-209	ND		0.300	0.138	0.000978	ng/Sample		07/16/24 04:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	58		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-3L	67		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-4L	68		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-15L	72		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-19L	76		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-37L	73		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-54L	95		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-77L	81		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-81L	81		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-104L	92		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-105L	98		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-114L	95		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-118L	88		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-123L	91		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-126L	91		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-155L	85		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-156L	95 C		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-157L	95 C156		20 - 145	06/27/24 14:35	07/16/24 04:59	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

Lab Sample ID: 140-37232-3

Date Collected: 06/12/24 14:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	87		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-169L	88		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-170L	92		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-188L	93		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-189L	93		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-202L	87		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-205L	93		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-206L	96		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-208L	93		20 - 145	06/27/24 14:35	07/16/24 04:59	1
PCB-209L	106		20 - 145	06/27/24 14:35	07/16/24 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		20 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-111L	82		20 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-178L	77		20 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-8L	98		70 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-79L	115		70 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-95L	114		70 - 130	06/27/24 14:35	07/16/24 04:59	1
PCB-153L	101		70 - 130	06/27/24 14:35	07/16/24 04:59	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	754	B **	750	750	0.661	ng/Sample		07/19/24 19:27	10
2-Methylnaphthalene	271	J B	750	750	0.452	ng/Sample		07/19/24 19:27	10
Acenaphthylene	9.30	J B	30.0	30.0	0.464	ng/Sample		07/19/24 19:27	10
Acenaphthene	55.7	J B	300	300	0.544	ng/Sample		07/19/24 19:27	10
Fluorene	109	J B	300	300	0.710	ng/Sample		07/19/24 19:27	10
Phenanthrene	334	B	60.0	60.0	0.756	ng/Sample		07/19/24 19:27	10
Anthracene	36.1	J B	300	300	0.731	ng/Sample		07/19/24 19:27	10
Fluoranthene	49.5	J B	60.0	60.0	0.234	ng/Sample		07/19/24 19:27	10
Pyrene	56.4	J B	60.0	60.0	0.229	ng/Sample		07/19/24 19:27	10
Benzo[a]anthracene	3.25	J B	60.0	60.0	0.967	ng/Sample		07/19/24 19:27	10
Chrysene	18.1	J B	60.0	60.0	0.908	ng/Sample		07/19/24 19:27	10
Benzo[b]fluoranthene	17.7	J B	300	300	0.189	ng/Sample		07/19/24 19:27	10
Benzo[k]fluoranthene	5.25	J B	60.0	60.0	0.139	ng/Sample		07/19/24 19:27	10
Benzo[e]pyrene	22.8	J B	60.0	60.0	0.179	ng/Sample		07/19/24 19:27	10
Benzo[a]pyrene	8.42	J B	30.0	30.0	0.123	ng/Sample		07/19/24 19:27	10
Perylene	4.00	J B	30.0	30.0	0.117	ng/Sample		07/19/24 19:27	10
Indeno[1,2,3-cd]pyrene	10.0	J B	30.0	30.0	0.119	ng/Sample		07/19/24 19:27	10
Dibenz(a,h)anthracene	10.2	J B	60.0	60.0	0.0735	ng/Sample		07/19/24 19:27	10
Benzo[g,h,i]perylene	21.2	J B	60.0	60.0	0.101	ng/Sample		07/19/24 19:27	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	62		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-2-Methylnaphthalene	63		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Acenaphthylene	90		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Acenaphthene	84		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Fluorene	89		20 - 130	06/27/24 14:06	07/19/24 19:27	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 -
COMBINED**

Lab Sample ID: 140-37232-3

Date Collected: 06/12/24 14:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	92		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C3-Pyrene	89		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Benzo(a)anthracene	60		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Chrysene	63		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Benzo(b)fluoranthene	67		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Benzo(k)fluoranthene	83		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C4-Benzo(e)pyrene	63		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C4-Benzo(a)pyrene	85		20 - 130	06/27/24 14:06	07/19/24 19:27	10
Perylene-d12	85		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Indeno(1,2,3-cd)pyrene	81		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Dibenz(a,h)anthracene	89		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C12-Benzo(ghi)perylene	80		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Anthracene	84		20 - 130	06/27/24 14:06	07/19/24 19:27	10
13C6-Phenanthrene	81		20 - 130	06/27/24 14:06	07/19/24 19:27	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Lab Sample ID: 140-37232-4

Date Collected: 06/12/24 18:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.363	J	0.600	0.132	0.0180	ng/Sample		07/16/24 06:00	1
PCB-18	0.262	J C S	0.600	0.285	0.00849	ng/Sample		07/16/24 06:00	1
PCB-28	0.560	J B C20	0.600	0.252	0.0125	ng/Sample		07/16/24 06:00	1
PCB-44	1.62	C B	0.900	0.390	0.00874	ng/Sample		07/16/24 06:00	1
PCB-52	0.393		0.300	0.132	0.00925	ng/Sample		07/16/24 06:00	1
PCB-66	0.236	J	0.300	0.120	0.00676	ng/Sample		07/16/24 06:00	1
PCB-77	0.0793	J q	0.300	0.126	0.00757	ng/Sample		07/16/24 06:00	1
PCB-81	ND		0.300	0.0960	0.00818	ng/Sample		07/16/24 06:00	1
PCB-101	0.188	J C90	0.900	0.390	0.00582	ng/Sample		07/16/24 06:00	1
PCB-105	0.0839	J q	0.300	0.102	0.0151	ng/Sample		07/16/24 06:00	1
PCB-114	ND		0.300	0.165	0.0157	ng/Sample		07/16/24 06:00	1
PCB-118	0.162	J	0.300	0.183	0.0147	ng/Sample		07/16/24 06:00	1
PCB-123	ND		0.300	0.171	0.0168	ng/Sample		07/16/24 06:00	1
PCB-126	ND		0.300	0.123	0.0175	ng/Sample		07/16/24 06:00	1
PCB-128	0.0576	J C B q	0.600	0.204	0.00813	ng/Sample		07/16/24 06:00	1
PCB-138	0.350	J C129	1.20	0.510	0.00845	ng/Sample		07/16/24 06:00	1
PCB-153	0.220	J C B	0.600	0.249	0.00731	ng/Sample		07/16/24 06:00	1
PCB-156	0.0312	J C q	0.600	0.255	0.00857	ng/Sample		07/16/24 06:00	1
PCB-157	0.0312	J C156 q	0.600	0.255	0.00857	ng/Sample		07/16/24 06:00	1
PCB-167	ND		0.300	0.180	0.00606	ng/Sample		07/16/24 06:00	1
PCB-169	ND		0.300	0.123	0.00605	ng/Sample		07/16/24 06:00	1
PCB-170	0.0127	J q	0.300	0.132	0.000528	ng/Sample		07/16/24 06:00	1
PCB-180	0.0376	J C q	0.600	0.204	0.000393	ng/Sample		07/16/24 06:00	1
PCB-187	0.0246	J q	0.300	0.126	0.000416	ng/Sample		07/16/24 06:00	1
PCB-189	ND		0.300	0.147	0.00227	ng/Sample		07/16/24 06:00	1
PCB-195	ND		0.300	0.159	0.000865	ng/Sample		07/16/24 06:00	1
PCB-206	ND		0.300	0.171	0.0315	ng/Sample		07/16/24 06:00	1
PCB-209	0.0171	J q	0.300	0.138	0.000787	ng/Sample		07/16/24 06:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	52		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-3L	63		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-4L	61		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-15L	73		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-19L	68		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-37L	70		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-54L	88		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-77L	78		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-81L	77		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-104L	89		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-105L	94		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-114L	95		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-118L	87		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-123L	89		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-126L	91		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-155L	84		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-156L	92 C		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-157L	92 C156		20 - 145	06/27/24 14:35	07/16/24 06:00	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Lab Sample ID: 140-37232-4

Date Collected: 06/12/24 18:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	83		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-169L	85		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-170L	91		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-188L	98		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-189L	90		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-202L	90		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-205L	93		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-206L	96		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-208L	93		20 - 145	06/27/24 14:35	07/16/24 06:00	1
PCB-209L	104		20 - 145	06/27/24 14:35	07/16/24 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	70		20 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-111L	76		20 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-178L	78		20 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-8L	99		70 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-79L	116		70 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-95L	111		70 - 130	06/27/24 14:35	07/16/24 06:00	1
PCB-153L	100		70 - 130	06/27/24 14:35	07/16/24 06:00	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	899	B **	750	750	1.18	ng/Sample		07/19/24 20:31	10
2-Methylnaphthalene	398	J B	750	750	1.12	ng/Sample		07/19/24 20:31	10
Acenaphthylene	9.70	J B	30.0	30.0	0.758	ng/Sample		07/19/24 20:31	10
Acenaphthene	76.2	J B	300	300	0.977	ng/Sample		07/19/24 20:31	10
Fluorene	128	J B	300	300	1.27	ng/Sample		07/19/24 20:31	10
Phenanthrene	331	B	60.0	60.0	1.17	ng/Sample		07/19/24 20:31	10
Anthracene	32.7	J B	300	300	1.19	ng/Sample		07/19/24 20:31	10
Fluoranthene	79.8	B	60.0	60.0	0.427	ng/Sample		07/19/24 20:31	10
Pyrene	114	B	60.0	60.0	0.443	ng/Sample		07/19/24 20:31	10
Benzo[a]anthracene	5.89	J B	60.0	60.0	0.699	ng/Sample		07/19/24 20:31	10
Chrysene	19.9	J B	60.0	60.0	0.670	ng/Sample		07/19/24 20:31	10
Benzo[b]fluoranthene	23.6	J B	300	300	0.189	ng/Sample		07/19/24 20:31	10
Benzo[k]fluoranthene	9.67	J B	60.0	60.0	0.186	ng/Sample		07/19/24 20:31	10
Benzo[e]pyrene	93.6	B	60.0	60.0	0.149	ng/Sample		07/19/24 20:31	10
Benzo[a]pyrene	11.2	J B	30.0	30.0	0.170	ng/Sample		07/19/24 20:31	10
Perylene	42.0	B	30.0	30.0	0.130	ng/Sample		07/19/24 20:31	10
Indeno[1,2,3-cd]pyrene	40.2	B	30.0	30.0	0.165	ng/Sample		07/19/24 20:31	10
Dibenz(a,h)anthracene	10.0	J B	60.0	60.0	0.136	ng/Sample		07/19/24 20:31	10
Benzo[g,h,i]perylene	127	B	60.0	60.0	0.131	ng/Sample		07/19/24 20:31	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	41		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-2-Methylnaphthalene	39		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Acenaphthylene	61		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Acenaphthene	57		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Fluorene	64		20 - 130	06/27/24 14:06	07/19/24 20:31	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Lab Sample ID: 140-37232-4

Date Collected: 06/12/24 18:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	77		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C3-Pyrene	74		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Benzo(a)anthracene	55		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Chrysene	63		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Benzo(b)fluoranthene	67		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Benzo(k)fluoranthene	76		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C4-Benzo(e)pyrene	73		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C4-Benzo(a)pyrene	77		20 - 130	06/27/24 14:06	07/19/24 20:31	10
Perylene-d12	83		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Indeno(1,2,3-cd)pyrene	74		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Dibenz(a,h)anthracene	81		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C12-Benzo(ghi)perylene	73		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Anthracene	63		20 - 130	06/27/24 14:06	07/19/24 20:31	10
13C6-Phenanthrene	61		20 - 130	06/27/24 14:06	07/19/24 20:31	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

Lab Sample ID: 140-37232-5

Date Collected: 06/13/24 15:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.476	J S	0.600	0.132	0.0146	ng/Sample		07/16/24 07:01	1
PCB-18	0.458	J C S	0.600	0.285	0.00889	ng/Sample		07/16/24 07:01	1
PCB-28	1.03	B C20	0.600	0.252	0.0154	ng/Sample		07/16/24 07:01	1
PCB-44	3.62	C B	0.900	0.390	0.0214	ng/Sample		07/16/24 07:01	1
PCB-52	0.845		0.300	0.132	0.0227	ng/Sample		07/16/24 07:01	1
PCB-66	0.366		0.300	0.120	0.0166	ng/Sample		07/16/24 07:01	1
PCB-77	ND		0.300	0.126	0.0192	ng/Sample		07/16/24 07:01	1
PCB-81	ND		0.300	0.0960	0.0193	ng/Sample		07/16/24 07:01	1
PCB-101	0.228	J C90	0.900	0.390	0.00760	ng/Sample		07/16/24 07:01	1
PCB-105	0.0851	J q	0.300	0.102	0.0154	ng/Sample		07/16/24 07:01	1
PCB-114	ND		0.300	0.165	0.0144	ng/Sample		07/16/24 07:01	1
PCB-118	0.167	J q	0.300	0.183	0.0147	ng/Sample		07/16/24 07:01	1
PCB-123	ND		0.300	0.171	0.0168	ng/Sample		07/16/24 07:01	1
PCB-126	ND		0.300	0.123	0.0176	ng/Sample		07/16/24 07:01	1
PCB-128	0.0405	J C B	0.600	0.204	0.00353	ng/Sample		07/16/24 07:01	1
PCB-138	0.260	J C129	1.20	0.510	0.00367	ng/Sample		07/16/24 07:01	1
PCB-153	0.153	J C B	0.600	0.249	0.00317	ng/Sample		07/16/24 07:01	1
PCB-156	0.0242	J C q	0.600	0.255	0.00356	ng/Sample		07/16/24 07:01	1
PCB-157	0.0242	J C156 q	0.600	0.255	0.00356	ng/Sample		07/16/24 07:01	1
PCB-167	ND		0.300	0.180	0.00275	ng/Sample		07/16/24 07:01	1
PCB-169	ND		0.300	0.123	0.00269	ng/Sample		07/16/24 07:01	1
PCB-170	0.0116	J q	0.300	0.132	0.000275	ng/Sample		07/16/24 07:01	1
PCB-180	0.0327	J C q	0.600	0.204	0.000201	ng/Sample		07/16/24 07:01	1
PCB-187	0.0199	J q	0.300	0.126	0.000213	ng/Sample		07/16/24 07:01	1
PCB-189	ND		0.300	0.147	0.00396	ng/Sample		07/16/24 07:01	1
PCB-195	ND		0.300	0.159	0.00251	ng/Sample		07/16/24 07:01	1
PCB-206	ND		0.300	0.171	0.0261	ng/Sample		07/16/24 07:01	1
PCB-209	ND		0.300	0.138	0.000959	ng/Sample		07/16/24 07:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	59		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-3L	68		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-4L	70		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-15L	77		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-19L	76		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-37L	75		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-54L	94		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-77L	81		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-81L	81		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-104L	96		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-105L	98		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-114L	107		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-118L	95		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-123L	94		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-126L	96		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-155L	89		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-156L	106	C	20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-157L	106	C156	20 - 145	06/27/24 14:35	07/16/24 07:01	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

Lab Sample ID: 140-37232-5

Date Collected: 06/13/24 15:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	92		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-169L	95		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-170L	95		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-188L	102		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-189L	98		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-202L	93		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-205L	98		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-206L	103		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-208L	100		20 - 145	06/27/24 14:35	07/16/24 07:01	1
PCB-209L	113		20 - 145	06/27/24 14:35	07/16/24 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	74		20 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-111L	81		20 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-178L	78		20 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-8L	97		70 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-79L	113		70 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-95L	107		70 - 130	06/27/24 14:35	07/16/24 07:01	1
PCB-153L	95		70 - 130	06/27/24 14:35	07/16/24 07:01	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	768	B **	750	750	0.953	ng/Sample		07/20/24 06:13	10
2-Methylnaphthalene	248	J B	750	750	0.555	ng/Sample		07/20/24 06:13	10
Acenaphthylene	21.4	J B	30.0	30.0	0.420	ng/Sample		07/20/24 06:13	10
Acenaphthene	69.1	J B	300	300	0.547	ng/Sample		07/20/24 06:13	10
Fluorene	204	J B	300	300	0.568	ng/Sample		07/20/24 06:13	10
Phenanthrene	675	B	60.0	60.0	0.746	ng/Sample		07/20/24 06:13	10
Anthracene	78.3	J B	300	300	0.682	ng/Sample		07/20/24 06:13	10
Fluoranthene	87.6	B	60.0	60.0	0.235	ng/Sample		07/20/24 06:13	10
Pyrene	92.0	B	60.0	60.0	0.249	ng/Sample		07/20/24 06:13	10
Benzo[a]anthracene	6.85	J B	60.0	60.0	0.172	ng/Sample		07/20/24 06:13	10
Chrysene	17.6	J B	60.0	60.0	0.175	ng/Sample		07/20/24 06:13	10
Benzo[b]fluoranthene	7.28	J B	300	300	0.0889	ng/Sample		07/20/24 06:13	10
Benzo[k]fluoranthene	4.50	J B	60.0	60.0	0.0881	ng/Sample		07/20/24 06:13	10
Benzo[e]pyrene	17.0	J B	60.0	60.0	0.0753	ng/Sample		07/20/24 06:13	10
Benzo[a]pyrene	4.27	J B	30.0	30.0	0.0701	ng/Sample		07/20/24 06:13	10
Perylene	1.76	J B	30.0	30.0	0.0654	ng/Sample		07/20/24 06:13	10
Indeno[1,2,3-cd]pyrene	7.79	J B	30.0	30.0	0.0671	ng/Sample		07/20/24 06:13	10
Dibenz(a,h)anthracene	7.43	J B	60.0	60.0	0.0521	ng/Sample		07/20/24 06:13	10
Benzo[g,h,i]perylene	29.1	J B	60.0	60.0	0.0601	ng/Sample		07/20/24 06:13	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	48		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-2-Methylnaphthalene	52		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Acenaphthylene	70		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Acenaphthene	65		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Fluorene	73		20 - 130	06/27/24 14:06	07/20/24 06:13	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 -
COMBINED**

Lab Sample ID: 140-37232-5

Date Collected: 06/13/24 15:30

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	79		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C3-Pyrene	72		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Benzo(a)anthracene	61		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Chrysene	63		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Benzo(b)fluoranthene	69		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Benzo(k)fluoranthene	75		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C4-Benzo(e)pyrene	69		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C4-Benzo(a)pyrene	76		20 - 130	06/27/24 14:06	07/20/24 06:13	10
Perylene-d12	74		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Indeno(1,2,3-cd)pyrene	87		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Dibenz(a,h)anthracene	88		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C12-Benzo(ghi)perylene	77		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Anthracene	71		20 - 130	06/27/24 14:06	07/20/24 06:13	10
13C6-Phenanthrene	63		20 - 130	06/27/24 14:06	07/20/24 06:13	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

Lab Sample ID: 140-37232-6

Date Collected: 06/13/24 18:05

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.254	J	0.600	0.132	0.0137	ng/Sample		07/16/24 08:02	1
PCB-18	0.268	J C	0.600	0.285	0.00766	ng/Sample		07/16/24 08:02	1
PCB-28	0.731	B C20	0.600	0.252	0.0116	ng/Sample		07/16/24 08:02	1
PCB-44	1.81	C B	0.900	0.390	0.0127	ng/Sample		07/16/24 08:02	1
PCB-52	0.523		0.300	0.132	0.0135	ng/Sample		07/16/24 08:02	1
PCB-66	0.366		0.300	0.120	0.00984	ng/Sample		07/16/24 08:02	1
PCB-77	0.0649	J q	0.300	0.126	0.0110	ng/Sample		07/16/24 08:02	1
PCB-81	ND		0.300	0.0960	0.0120	ng/Sample		07/16/24 08:02	1
PCB-101	0.113	J C90 q	0.900	0.390	0.00426	ng/Sample		07/16/24 08:02	1
PCB-105	0.0427	J	0.300	0.102	0.0102	ng/Sample		07/16/24 08:02	1
PCB-114	ND		0.300	0.165	0.0105	ng/Sample		07/16/24 08:02	1
PCB-118	0.0909	J	0.300	0.183	0.0102	ng/Sample		07/16/24 08:02	1
PCB-123	ND		0.300	0.171	0.0112	ng/Sample		07/16/24 08:02	1
PCB-126	ND		0.300	0.123	0.0119	ng/Sample		07/16/24 08:02	1
PCB-128	0.00536	J C B q	0.600	0.204	0.00258	ng/Sample		07/16/24 08:02	1
PCB-138	0.0532	J C129 q	1.20	0.510	0.00268	ng/Sample		07/16/24 08:02	1
PCB-153	0.0504	J C B q	0.600	0.249	0.00232	ng/Sample		07/16/24 08:02	1
PCB-156	ND	C	0.600	0.255	0.00269	ng/Sample		07/16/24 08:02	1
PCB-157	ND	C156	0.600	0.255	0.00269	ng/Sample		07/16/24 08:02	1
PCB-167	ND		0.300	0.180	0.00191	ng/Sample		07/16/24 08:02	1
PCB-169	ND		0.300	0.123	0.00197	ng/Sample		07/16/24 08:02	1
PCB-170	0.0197	J q	0.300	0.132	0.000665	ng/Sample		07/16/24 08:02	1
PCB-180	0.0149	J C q	0.600	0.204	0.000505	ng/Sample		07/16/24 08:02	1
PCB-187	0.00826	J q	0.300	0.126	0.000535	ng/Sample		07/16/24 08:02	1
PCB-189	ND		0.300	0.147	0.00434	ng/Sample		07/16/24 08:02	1
PCB-195	ND		0.300	0.159	0.00231	ng/Sample		07/16/24 08:02	1
PCB-206	ND		0.300	0.171	0.0314	ng/Sample		07/16/24 08:02	1
PCB-209	0.0102	J q	0.300	0.138	0.00234	ng/Sample		07/16/24 08:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	56		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-3L	64		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-4L	64		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-15L	75		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-19L	71		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-37L	70		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-54L	90		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-77L	78		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-81L	77		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-104L	89		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-105L	95		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-114L	97		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-118L	88		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-123L	88		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-126L	92		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-155L	85		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-156L	96	C	20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-157L	96	C156	20 - 145	06/27/24 14:35	07/16/24 08:02	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

Lab Sample ID: 140-37232-6

Date Collected: 06/13/24 18:05

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	88		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-169L	88		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-170L	92		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-188L	97		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-189L	93		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-202L	90		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-205L	95		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-206L	98		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-208L	93		20 - 145	06/27/24 14:35	07/16/24 08:02	1
PCB-209L	109		20 - 145	06/27/24 14:35	07/16/24 08:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	72		20 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-111L	80		20 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-178L	82		20 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-8L	101		70 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-79L	115		70 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-95L	115		70 - 130	06/27/24 14:35	07/16/24 08:02	1
PCB-153L	100		70 - 130	06/27/24 14:35	07/16/24 08:02	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	529	J B **	750	750	1.15	ng/Sample		07/20/24 07:18	10
2-Methylnaphthalene	150	J B	750	750	0.148	ng/Sample		07/20/24 07:18	10
Acenaphthylene	10.8	J B	30.0	30.0	0.181	ng/Sample		07/20/24 07:18	10
Acenaphthene	35.8	J B	300	300	0.182	ng/Sample		07/20/24 07:18	10
Fluorene	76.1	J B	300	300	0.200	ng/Sample		07/20/24 07:18	10
Phenanthrene	281	B	60.0	60.0	0.272	ng/Sample		07/20/24 07:18	10
Anthracene	29.2	J B	300	300	0.259	ng/Sample		07/20/24 07:18	10
Fluoranthene	41.1	J B	60.0	60.0	0.0732	ng/Sample		07/20/24 07:18	10
Pyrene	50.0	J B	60.0	60.0	0.0792	ng/Sample		07/20/24 07:18	10
Benzo[a]anthracene	3.21	J B	60.0	60.0	0.0611	ng/Sample		07/20/24 07:18	10
Chrysene	10.4	J B	60.0	60.0	0.0605	ng/Sample		07/20/24 07:18	10
Benzo[b]fluoranthene	5.15	J B	300	300	0.0268	ng/Sample		07/20/24 07:18	10
Benzo[k]fluoranthene	2.56	J B	60.0	60.0	0.0271	ng/Sample		07/20/24 07:18	10
Benzo[e]pyrene	16.1	J B	60.0	60.0	0.0236	ng/Sample		07/20/24 07:18	10
Benzo[a]pyrene	3.64	J B	30.0	30.0	0.0222	ng/Sample		07/20/24 07:18	10
Perylene	1.13	J B	30.0	30.0	0.0209	ng/Sample		07/20/24 07:18	10
Indeno[1,2,3-cd]pyrene	9.37	J B	30.0	30.0	0.0253	ng/Sample		07/20/24 07:18	10
Dibenz(a,h)anthracene	5.77	J B	60.0	60.0	0.0161	ng/Sample		07/20/24 07:18	10
Benzo[g,h,i]perylene	51.5	J B	60.0	60.0	0.0222	ng/Sample		07/20/24 07:18	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	16	*5-	20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-2-Methylnaphthalene	56		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Acenaphthylene	78		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Acenaphthene	75		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Fluorene	81		20 - 130	06/27/24 14:06	07/20/24 07:18	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 -
COMBINED**

Lab Sample ID: 140-37232-6

Date Collected: 06/13/24 18:05

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	84		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C3-Pyrene	76		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Benzo(a)anthracene	69		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Chrysene	71		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Benzo(b)fluoranthene	82		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Benzo(k)fluoranthene	81		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C4-Benzo(e)pyrene	77		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C4-Benzo(a)pyrene	82		20 - 130	06/27/24 14:06	07/20/24 07:18	10
Perylene-d12	79		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Indeno(1,2,3-cd)pyrene	95		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Dibenz(a,h)anthracene	93		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C12-Benzo(ghi)perylene	74		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Anthracene	91		20 - 130	06/27/24 14:06	07/20/24 07:18	10
13C6-Phenanthrene	78		20 - 130	06/27/24 14:06	07/20/24 07:18	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Lab Sample ID: 140-37232-7

Date Collected: 06/14/24 13:15

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.371	J	0.600	0.132	0.0189	ng/Sample		07/16/24 09:03	1
PCB-18	0.370	J C S	0.600	0.285	0.00904	ng/Sample		07/16/24 09:03	1
PCB-28	0.855	B C20	0.600	0.252	0.0124	ng/Sample		07/16/24 09:03	1
PCB-44	2.42	C B	0.900	0.390	0.0188	ng/Sample		07/16/24 09:03	1
PCB-52	0.718		0.300	0.132	0.0199	ng/Sample		07/16/24 09:03	1
PCB-66	0.347		0.300	0.120	0.0146	ng/Sample		07/16/24 09:03	1
PCB-77	0.0399	J q	0.300	0.126	0.0166	ng/Sample		07/16/24 09:03	1
PCB-81	ND		0.300	0.0960	0.0173	ng/Sample		07/16/24 09:03	1
PCB-101	0.217	J C90	0.900	0.390	0.00619	ng/Sample		07/16/24 09:03	1
PCB-105	0.0579	J q	0.300	0.102	0.0149	ng/Sample		07/16/24 09:03	1
PCB-114	ND		0.300	0.165	0.0144	ng/Sample		07/16/24 09:03	1
PCB-118	0.144	J	0.300	0.183	0.0148	ng/Sample		07/16/24 09:03	1
PCB-123	ND		0.300	0.171	0.0162	ng/Sample		07/16/24 09:03	1
PCB-126	ND		0.300	0.123	0.0179	ng/Sample		07/16/24 09:03	1
PCB-128	0.0264	J C B	0.600	0.204	0.00748	ng/Sample		07/16/24 09:03	1
PCB-138	0.171	J C129	1.20	0.510	0.00777	ng/Sample		07/16/24 09:03	1
PCB-153	0.0882	J C B q	0.600	0.249	0.00672	ng/Sample		07/16/24 09:03	1
PCB-156	0.0146	J C q	0.600	0.255	0.00774	ng/Sample		07/16/24 09:03	1
PCB-157	0.0146	J C156 q	0.600	0.255	0.00774	ng/Sample		07/16/24 09:03	1
PCB-167	ND		0.300	0.180	0.00563	ng/Sample		07/16/24 09:03	1
PCB-169	ND		0.300	0.123	0.00564	ng/Sample		07/16/24 09:03	1
PCB-170	0.0129	J	0.300	0.132	0.000282	ng/Sample		07/16/24 09:03	1
PCB-180	0.0237	J C	0.600	0.204	0.000207	ng/Sample		07/16/24 09:03	1
PCB-187	0.0122	J	0.300	0.126	0.000219	ng/Sample		07/16/24 09:03	1
PCB-189	ND		0.300	0.147	0.00233	ng/Sample		07/16/24 09:03	1
PCB-195	ND		0.300	0.159	0.00545	ng/Sample		07/16/24 09:03	1
PCB-206	ND		0.300	0.171	0.0334	ng/Sample		07/16/24 09:03	1
PCB-209	0.0174	J q	0.300	0.138	0.000853	ng/Sample		07/16/24 09:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	55		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-3L	64		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-4L	64		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-15L	70		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-19L	71		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-37L	70		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-54L	89		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-77L	76		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-81L	76		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-104L	91		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-105L	92		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-114L	98		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-118L	89		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-123L	89		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-126L	88		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-155L	85		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-156L	98	C	20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-157L	98	C156	20 - 145	06/27/24 14:35	07/16/24 09:03	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Lab Sample ID: 140-37232-7

Date Collected: 06/14/24 13:15

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	87		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-169L	89		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-170L	91		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-188L	98		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-189L	93		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-202L	87		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-205L	91		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-206L	95		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-208L	93		20 - 145	06/27/24 14:35	07/16/24 09:03	1
PCB-209L	104		20 - 145	06/27/24 14:35	07/16/24 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	72		20 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-111L	81		20 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-178L	82		20 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-8L	100		70 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-79L	117		70 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-95L	115		70 - 130	06/27/24 14:35	07/16/24 09:03	1
PCB-153L	100		70 - 130	06/27/24 14:35	07/16/24 09:03	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	667	J B **	750	750	0.765	ng/Sample		07/20/24 08:22	10
2-Methylnaphthalene	191	J B	750	750	0.619	ng/Sample		07/20/24 08:22	10
Acenaphthylene	13.7	J B	30.0	30.0	0.498	ng/Sample		07/20/24 08:22	10
Acenaphthene	42.9	J B	300	300	0.543	ng/Sample		07/20/24 08:22	10
Fluorene	103	J B	300	300	0.646	ng/Sample		07/20/24 08:22	10
Phenanthrene	411	B	60.0	60.0	0.809	ng/Sample		07/20/24 08:22	10
Anthracene	42.9	J B	300	300	0.816	ng/Sample		07/20/24 08:22	10
Fluoranthene	65.4	B	60.0	60.0	0.257	ng/Sample		07/20/24 08:22	10
Pyrene	72.8	B	60.0	60.0	0.265	ng/Sample		07/20/24 08:22	10
Benzo[a]anthracene	4.71	J B	60.0	60.0	0.198	ng/Sample		07/20/24 08:22	10
Chrysene	13.6	J B	60.0	60.0	0.207	ng/Sample		07/20/24 08:22	10
Benzo[b]fluoranthene	5.79	J B	300	300	0.125	ng/Sample		07/20/24 08:22	10
Benzo[k]fluoranthene	3.25	J B	60.0	60.0	0.115	ng/Sample		07/20/24 08:22	10
Benzo[e]pyrene	12.9	J B	60.0	60.0	0.0984	ng/Sample		07/20/24 08:22	10
Benzo[a]pyrene	3.81	J B	30.0	30.0	0.0969	ng/Sample		07/20/24 08:22	10
Perylene	2.14	J B	30.0	30.0	0.0842	ng/Sample		07/20/24 08:22	10
Indeno[1,2,3-cd]pyrene	6.47	J B	30.0	30.0	0.0799	ng/Sample		07/20/24 08:22	10
Dibenz(a,h)anthracene	5.88	J B	60.0	60.0	0.0568	ng/Sample		07/20/24 08:22	10
Benzo[g,h,i]perylene	20.3	J B	60.0	60.0	0.0661	ng/Sample		07/20/24 08:22	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	59		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-2-Methylnaphthalene	61		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Acenaphthylene	86		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Acenaphthene	79		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Fluorene	87		20 - 130	06/27/24 14:06	07/20/24 08:22	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Lab Sample ID: 140-37232-7

Date Collected: 06/14/24 13:15

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	84		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C3-Pyrene	80		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Benzo(a)anthracene	71		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Chrysene	72		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Benzo(b)fluoranthene	80		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Benzo(k)fluoranthene	89		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C4-Benzo(e)pyrene	80		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C4-Benzo(a)pyrene	92		20 - 130	06/27/24 14:06	07/20/24 08:22	10
Perylene-d12	91		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Indeno(1,2,3-cd)pyrene	94		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Dibenz(a,h)anthracene	109		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C12-Benzo(ghi)perylene	95		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Anthracene	81		20 - 130	06/27/24 14:06	07/20/24 08:22	10
13C6-Phenanthrene	71		20 - 130	06/27/24 14:06	07/20/24 08:22	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Lab Sample ID: 140-37232-8

Date Collected: 06/14/24 16:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.188	J q	0.600	0.132	0.0157	ng/Sample		07/16/24 10:05	1
PCB-18	0.209	J C S	0.600	0.285	0.0104	ng/Sample		07/16/24 10:05	1
PCB-28	0.527	J B C20	0.600	0.252	0.0115	ng/Sample		07/16/24 10:05	1
PCB-44	1.48	C B	0.900	0.390	0.0122	ng/Sample		07/16/24 10:05	1
PCB-52	0.411		0.300	0.132	0.0129	ng/Sample		07/16/24 10:05	1
PCB-66	0.168	J	0.300	0.120	0.00946	ng/Sample		07/16/24 10:05	1
PCB-77	ND		0.300	0.126	0.0108	ng/Sample		07/16/24 10:05	1
PCB-81	ND		0.300	0.0960	0.0112	ng/Sample		07/16/24 10:05	1
PCB-101	0.0817	J C90	0.900	0.390	0.00687	ng/Sample		07/16/24 10:05	1
PCB-105	0.0279	J q	0.300	0.102	0.00850	ng/Sample		07/16/24 10:05	1
PCB-114	ND		0.300	0.165	0.00802	ng/Sample		07/16/24 10:05	1
PCB-118	0.0418	J	0.300	0.183	0.00785	ng/Sample		07/16/24 10:05	1
PCB-123	ND		0.300	0.171	0.00931	ng/Sample		07/16/24 10:05	1
PCB-126	ND		0.300	0.123	0.00972	ng/Sample		07/16/24 10:05	1
PCB-128	ND	C	0.600	0.204	0.00288	ng/Sample		07/16/24 10:05	1
PCB-138	0.0202	J C129 q	1.20	0.510	0.00299	ng/Sample		07/16/24 10:05	1
PCB-153	0.0242	J C B	0.600	0.249	0.00259	ng/Sample		07/16/24 10:05	1
PCB-156	ND	C	0.600	0.255	0.00302	ng/Sample		07/16/24 10:05	1
PCB-157	ND	C156	0.600	0.255	0.00302	ng/Sample		07/16/24 10:05	1
PCB-167	ND		0.300	0.180	0.00216	ng/Sample		07/16/24 10:05	1
PCB-169	ND		0.300	0.123	0.00215	ng/Sample		07/16/24 10:05	1
PCB-170	ND		0.300	0.132	0.000595	ng/Sample		07/16/24 10:05	1
PCB-180	ND	C	0.600	0.204	0.000438	ng/Sample		07/16/24 10:05	1
PCB-187	ND		0.300	0.126	0.000464	ng/Sample		07/16/24 10:05	1
PCB-189	ND		0.300	0.147	0.00427	ng/Sample		07/16/24 10:05	1
PCB-195	ND		0.300	0.159	0.00265	ng/Sample		07/16/24 10:05	1
PCB-206	ND		0.300	0.171	0.00573	ng/Sample		07/16/24 10:05	1
PCB-209	ND		0.300	0.138	0.00276	ng/Sample		07/16/24 10:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	59		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-3L	69		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-4L	69		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-15L	75		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-19L	75		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-37L	72		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-54L	95		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-77L	77		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-81L	77		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-104L	94		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-105L	93		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-114L	100		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-118L	93		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-123L	92		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-126L	94		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-155L	87		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-156L	97	C	20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-157L	97	C156	20 - 145	06/27/24 14:35	07/16/24 10:05	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Lab Sample ID: 140-37232-8

Date Collected: 06/14/24 16:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	87		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-169L	90		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-170L	92		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-188L	100		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-189L	94		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-202L	89		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-205L	96		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-206L	100		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-208L	94		20 - 145	06/27/24 14:35	07/16/24 10:05	1
PCB-209L	111		20 - 145	06/27/24 14:35	07/16/24 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	75		20 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-111L	81		20 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-178L	84		20 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-8L	100		70 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-79L	119		70 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-95L	114		70 - 130	06/27/24 14:35	07/16/24 10:05	1
PCB-153L	104		70 - 130	06/27/24 14:35	07/16/24 10:05	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	559	J B **	750	750	0.836	ng/Sample		07/20/24 09:27	10
2-Methylnaphthalene	147	J B	750	750	0.106	ng/Sample		07/20/24 09:27	10
Acenaphthylene	8.46	J B	30.0	30.0	0.0689	ng/Sample		07/20/24 09:27	10
Acenaphthene	35.0	J B	300	300	0.0868	ng/Sample		07/20/24 09:27	10
Fluorene	74.4	J B	300	300	0.0875	ng/Sample		07/20/24 09:27	10
Phenanthrene	262	B	60.0	60.0	0.173	ng/Sample		07/20/24 09:27	10
Anthracene	28.1	J B	300	300	0.157	ng/Sample		07/20/24 09:27	10
Fluoranthene	28.8	J B	60.0	60.0	0.0478	ng/Sample		07/20/24 09:27	10
Pyrene	29.1	J B	60.0	60.0	0.0501	ng/Sample		07/20/24 09:27	10
Benzo[a]anthracene	3.08	J B	60.0	60.0	0.0307	ng/Sample		07/20/24 09:27	10
Chrysene	8.32	J B	60.0	60.0	0.0310	ng/Sample		07/20/24 09:27	10
Benzo[b]fluoranthene	2.23	J B	300	300	0.0162	ng/Sample		07/20/24 09:27	10
Benzo[k]fluoranthene	2.29	J B	60.0	60.0	0.0150	ng/Sample		07/20/24 09:27	10
Benzo[e]pyrene	2.12	J B	60.0	60.0	0.0131	ng/Sample		07/20/24 09:27	10
Benzo[a]pyrene	2.28	J B	30.0	30.0	0.0128	ng/Sample		07/20/24 09:27	10
Perylene	0.706	J B	30.0	30.0	0.0114	ng/Sample		07/20/24 09:27	10
Indeno[1,2,3-cd]pyrene	1.83	J B	30.0	30.0	0.0122	ng/Sample		07/20/24 09:27	10
Dibenz(a,h)anthracene	6.23	J B	60.0	60.0	0.00965	ng/Sample		07/20/24 09:27	10
Benzo[g,h,i]perylene	6.98	J B	60.0	60.0	0.0103	ng/Sample		07/20/24 09:27	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	18	*5-	20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-2-Methylnaphthalene	50		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Acenaphthylene	73		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Acenaphthene	69		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Fluorene	87		20 - 130	06/27/24 14:06	07/20/24 09:27	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Lab Sample ID: 140-37232-8

Date Collected: 06/14/24 16:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Fluoranthrene	79		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C3-Pyrene	74		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Benzo(a)anthracene	69		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Chrysene	67		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Benzo(b)fluoranthene	82		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Benzo(k)fluoranthene	81		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C4-Benzo(e)pyrene	80		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C4-Benzo(a)pyrene	84		20 - 130	06/27/24 14:06	07/20/24 09:27	10
Perylene-d12	85		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Indeno(1,2,3-cd)pyrene	99		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Dibenz(a,h)anthracene	93		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C12-Benzo(ghi)perylene	83		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Anthracene	95		20 - 130	06/27/24 14:06	07/20/24 09:27	10
13C6-Phenanthrene	79		20 - 130	06/27/24 14:06	07/20/24 09:27	10

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK

Lab Sample ID: 140-37232-14

XAD,FILTER

Date Collected: 06/11/24 00:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	ND		0.600	0.132	0.0102	ng/Sample		07/16/24 02:56	1
PCB-18	ND	C	0.600	0.285	0.00417	ng/Sample		07/16/24 02:56	1
PCB-28	0.0266	J B C20	0.600	0.252	0.00927	ng/Sample		07/16/24 02:56	1
PCB-44	ND	C	0.900	0.390	0.0187	ng/Sample		07/16/24 02:56	1
PCB-52	ND		0.300	0.132	0.0198	ng/Sample		07/16/24 02:56	1
PCB-66	ND		0.300	0.120	0.0145	ng/Sample		07/16/24 02:56	1
PCB-77	ND		0.300	0.126	0.0165	ng/Sample		07/16/24 02:56	1
PCB-81	ND		0.300	0.0960	0.0172	ng/Sample		07/16/24 02:56	1
PCB-101	ND	C90	0.900	0.390	0.00623	ng/Sample		07/16/24 02:56	1
PCB-105	ND		0.300	0.102	0.00782	ng/Sample		07/16/24 02:56	1
PCB-114	ND		0.300	0.165	0.00861	ng/Sample		07/16/24 02:56	1
PCB-118	ND		0.300	0.183	0.00759	ng/Sample		07/16/24 02:56	1
PCB-123	ND		0.300	0.171	0.00875	ng/Sample		07/16/24 02:56	1
PCB-126	ND		0.300	0.123	0.00864	ng/Sample		07/16/24 02:56	1
PCB-128	ND	C	0.600	0.204	0.000308	ng/Sample		07/16/24 02:56	1
PCB-138	0.00876	J C129 q	1.20	0.510	0.000320	ng/Sample		07/16/24 02:56	1
PCB-153	0.00527	J C B q	0.600	0.249	0.000276	ng/Sample		07/16/24 02:56	1
PCB-156	ND	C	0.600	0.255	0.000340	ng/Sample		07/16/24 02:56	1
PCB-157	ND	C156	0.600	0.255	0.000340	ng/Sample		07/16/24 02:56	1
PCB-167	ND		0.300	0.180	0.000223	ng/Sample		07/16/24 02:56	1
PCB-169	ND		0.300	0.123	0.000219	ng/Sample		07/16/24 02:56	1
PCB-170	ND		0.300	0.132	0.000546	ng/Sample		07/16/24 02:56	1
PCB-180	ND	C	0.600	0.204	0.000466	ng/Sample		07/16/24 02:56	1
PCB-187	ND		0.300	0.126	0.000494	ng/Sample		07/16/24 02:56	1
PCB-189	ND		0.300	0.147	0.00653	ng/Sample		07/16/24 02:56	1
PCB-195	ND		0.300	0.159	0.00347	ng/Sample		07/16/24 02:56	1
PCB-206	ND		0.300	0.171	0.0511	ng/Sample		07/16/24 02:56	1
PCB-209	ND		0.300	0.138	0.00230	ng/Sample		07/16/24 02:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	77		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-3L	73		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-4L	74		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-15L	74		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-19L	71		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-37L	75		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-54L	80		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-77L	82		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-81L	79		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-104L	76		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-105L	84		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-114L	80		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-118L	81		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-123L	80		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-126L	87		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-155L	76		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-156L	89	C	20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-157L	89	C156	20 - 145	06/27/24 14:35	07/16/24 02:56	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK

Lab Sample ID: 140-37232-14

XAD,FILTER

Date Collected: 06/11/24 00:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	86		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-169L	91		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-170L	89		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-188L	78		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-189L	87		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-202L	80		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-205L	89		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-206L	96		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-208L	85		20 - 145	06/27/24 14:35	07/16/24 02:56	1
PCB-209L	106		20 - 145	06/27/24 14:35	07/16/24 02:56	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	72		20 - 130	06/27/24 14:35	07/16/24 02:56	1
PCB-111L	74		20 - 130	06/27/24 14:35	07/16/24 02:56	1
PCB-178L	75		20 - 130	06/27/24 14:35	07/16/24 02:56	1

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	44.9	J B **	75.0	75.0	0.0621	ng/Sample		07/19/24 15:05	1
2-Methylnaphthalene	20.1	J B	75.0	75.0	0.0576	ng/Sample		07/19/24 15:05	1
Acenaphthylene	0.248	J B	3.00	3.00	0.0375	ng/Sample		07/19/24 15:05	1
Acenaphthene	8.17	J B	30.0	30.0	0.0661	ng/Sample		07/19/24 15:05	1
Fluorene	5.42	J B	30.0	30.0	0.0679	ng/Sample		07/19/24 15:05	1
Phenanthrene	9.99	B	6.00	6.00	0.0811	ng/Sample		07/19/24 15:05	1
Anthracene	0.819	J B	30.0	30.0	0.0686	ng/Sample		07/19/24 15:05	1
Fluoranthene	2.09	J B	6.00	6.00	0.0144	ng/Sample		07/19/24 15:05	1
Pyrene	3.23	J B	6.00	6.00	0.0132	ng/Sample		07/19/24 15:05	1
Benzo[a]anthracene	0.0840	J B	6.00	6.00	0.0129	ng/Sample		07/19/24 15:05	1
Chrysene	1.07	J B	6.00	6.00	0.0126	ng/Sample		07/19/24 15:05	1
Benzo[b]fluoranthene	0.277	J B	30.0	30.0	0.00563	ng/Sample		07/19/24 15:05	1
Benzo[k]fluoranthene	0.177	J B	6.00	6.00	0.00531	ng/Sample		07/19/24 15:05	1
Benzo[e]pyrene	0.384	J B	6.00	6.00	0.00459	ng/Sample		07/19/24 15:05	1
Benzo[a]pyrene	0.157	J B	3.00	3.00	0.00453	ng/Sample		07/19/24 15:05	1
Perylene	0.141	J B	3.00	3.00	0.00394	ng/Sample		07/19/24 15:05	1
Indeno[1,2,3-cd]pyrene	0.245	J B	3.00	3.00	0.00456	ng/Sample		07/19/24 15:05	1
Dibenz(a,h)anthracene	0.270	J B	6.00	6.00	0.00394	ng/Sample		07/19/24 15:05	1
Benzo[g,h,i]perylene	0.300	J B	6.00	6.00	0.00359	ng/Sample		07/19/24 15:05	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
13C6-Naphthalene	65		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-2-Methylnaphthalene	63		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Acenaphthylene	85		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Acenaphthene	78		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Fluorene	90		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Fluoranthrene	59		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C3-Pyrene	61		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Benzo(a)anthracene	40		20 - 130			06/27/24 14:06		07/19/24 15:05	1
13C6-Chrysene	40		20 - 130			06/27/24 14:06		07/19/24 15:05	1

Client Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

**Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK
XAD,FILTER**

Lab Sample ID: 140-37232-14

Date Collected: 06/11/24 00:00

Matrix: Air

Date Received: 06/19/24 09:00

Sample Container: Air Train

Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Benzo(b)fluoranthene	59		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C6-Benzo(k)fluoranthene	57		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C4-Benzo(e)pyrene	58		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C4-Benzo(a)pyrene	58		20 - 130	06/27/24 14:06	07/19/24 15:05	1
Perylene-d12	61		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C6-Indeno(1,2,3-cd)pyrene	50		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C6-Dibenz(a,h)anthracene	48		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C12-Benzo(ghi)perylene	46		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C6-Anthracene	33		20 - 130	06/27/24 14:06	07/19/24 15:05	1
13C6-Phenanthrene	29		20 - 130	06/27/24 14:06	07/19/24 15:05	1

Default Detection Limits

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Prep: Combined Prep

Analyte	RL	Units
PCB-101	0.300	ng/Sample
PCB-105	0.100	ng/Sample
PCB-114	0.100	ng/Sample
PCB-118	0.100	ng/Sample
PCB-123	0.100	ng/Sample
PCB-126	0.100	ng/Sample
PCB-128	0.200	ng/Sample
PCB-138	0.400	ng/Sample
PCB-153	0.200	ng/Sample
PCB-156	0.200	ng/Sample
PCB-157	0.200	ng/Sample
PCB-167	0.100	ng/Sample
PCB-169	0.100	ng/Sample
PCB-170	0.100	ng/Sample
PCB-18	0.200	ng/Sample
PCB-180	0.200	ng/Sample
PCB-187	0.100	ng/Sample
PCB-189	0.100	ng/Sample
PCB-195	0.100	ng/Sample
PCB-206	0.100	ng/Sample
PCB-209	0.100	ng/Sample
PCB-28	0.200	ng/Sample
PCB-44	0.300	ng/Sample
PCB-52	0.100	ng/Sample
PCB-66	0.100	ng/Sample
PCB-77	0.100	ng/Sample
PCB-8	0.200	ng/Sample
PCB-81	0.100	ng/Sample

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Prep: Combined Prep

Analyte	RL	Units
2-Methylnaphthalene	25.0	ng/Sample
Acenaphthene	10.0	ng/Sample
Acenaphthylene	1.00	ng/Sample
Anthracene	10.0	ng/Sample
Benzo[a]anthracene	2.00	ng/Sample
Benzo[a]pyrene	1.00	ng/Sample
Benzo[b]fluoranthene	10.0	ng/Sample
Benzo[e]pyrene	2.00	ng/Sample
Benzo[g,h,i]perylene	2.00	ng/Sample
Benzo[k]fluoranthene	2.00	ng/Sample
Chrysene	2.00	ng/Sample
Dibenz(a,h)anthracene	2.00	ng/Sample
Fluoranthene	2.00	ng/Sample
Fluorene	10.0	ng/Sample
Indeno[1,2,3-cd]pyrene	1.00	ng/Sample
Naphthalene	25.0	ng/Sample
Perylene	1.00	ng/Sample
Phenanthrene	2.00	ng/Sample
Pyrene	2.00	ng/Sample

Surrogate Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		PCB28L (20-130)	PCB111L (20-130)	PCB178L (20-130)	PCB8L (70-130)	PCB79L (70-130)	PCB95L (70-130)	PCB153L (70-130)
140-37232-1	M23 - NO.7 BOILER OUTLET -	75	81	78	99 S	110	111	91
140-37232-2	M23 - NO.7 BOILER OUTLET -	69	75	77	114	111	115	97
	RUN 2 - COMBINED							
140-37232-3	M23 - NO.7 BOILER OUTLET -	73	82	77	98	115	114	101
	RUN 3 - COMBINED							
140-37232-4	M23 - NO.7 BOILER OUTLET -	70	76	78	99	116	111	100
	RUN 4 - COMBINED							
140-37232-5	M23 - NO.7 BOILER OUTLET -	74	81	78	97	113	107	95
	RUN 5 - COMBINED							
140-37232-6	M23 - NO.7 BOILER OUTLET -	72	80	82	101	115	115	100
	RUN 6 - COMBINED							
140-37232-7	M23 - NO.7 BOILER OUTLET -	72	81	82	100	117	115	100
	RUN 7 - COMBINED							
140-37232-8	M23 - NO.7 BOILER OUTLET -	75	81	84	100	119	114	104
	RUN FB - COMBINED							
140-37232-14	A-2232,A-2233 M23 MEDIA	72	74	75				
	CHECK XAD,FILTER							
MB 140-88193/21-B	Method Blank	72	73	75				

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L
PCB8L = PCB-8L
PCB79L = PCB-79L
PCB95L = PCB-95L
PCB153L = PCB-153L

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCB28L (15-145)	PCB111L (40-145)	PCB178L (40-145)
LCS 140-88193/19-B	Lab Control Sample	67	72	70
LCSD 140-88193/20-B	Lab Control Sample Dup	66	69	68

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB1L (20-145)	PCB3L (20-145)	PCB4L (20-145)	PCB15L (20-145)	PCB19L (20-145)	PCB37L (20-145)	PCB54L (20-145)	PCB77L (20-145)
140-37232-1	M23 - NO.7 BOILER OUTLET -	61	73	70	72 S	77	80	94	84
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	61	66	67	73	71	78	82	84
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	58	67	68	72	76	73	95	81
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	52	63	61	73	68	70	88	78
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	59	68	70	77	76	75	94	81
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	56	64	64	75	71	70	90	78
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	55	64	64	70	71	70	89	76
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	59	69	69	75	75	72	95	77
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	77	73	74	74	71	75	80	82
MB 140-88193/21-B	Method Blank	69	76	66	72	69	75	80	80

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB81L (20-145)	PCB104L (20-145)	PCB105L (20-145)	PCB114L (20-145)	PCB118L (20-145)	PCB123L (20-145)	PCB126L (20-145)	PCB155L (20-145)
140-37232-1	M23 - NO.7 BOILER OUTLET -	83	95	100	100	92	95	99	87
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	83	84	92	89	88	86	90	83
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	81	92	98	95	88	91	91	85
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	77	89	94	95	87	89	91	84
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	81	96	98	107	95	94	96	89
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	77	89	95	97	88	88	92	85
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	76	91	92	98	89	89	88	85
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	77	94	93	100	93	92	94	87
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	79	76	84	80	81	80	87	76
MB 140-88193/21-B	Method Blank	80	80	87	82	83	82	88	77

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-37232-1	M23 - NO.7 BOILER OUTLET -	94 C	94 C156	86	91	96	93	97	89
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	93 C	93 C156	88	92	92	89	90	89
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	95 C	95 C156	87	88	92	93	93	87
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	92 C	92 C156	83	85	91	98	90	90
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	106 C	106 C156	92	95	95	102	98	93
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	96 C	96 C156	88	88	92	97	93	90

Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-37232-7	M23 - NO.7 BOILER OUTLET -	98 C	98 C156	87	89	91	98	93	87
140-37232-8	M23 - NO.7 BOILER OUTLET -	97 C	97 C156	87	90	92	100	94	89
	RUN FB - COMBINED								
140-37232-14	A-2232,A-2233 M23 MEDIA	89 C	89 C156	86	91	89	78	87	80
	CHECK XAD,FILTER								
MB 140-88193/21-B	Method Blank	88 C	88 C156	83	90	86	80	88	81

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)			
		PCB205L (20-145)	PCB206L (20-145)	PCB208L (20-145)	PCB209L (20-145)
140-37232-1	M23 - NO.7 BOILER OUTLET -	97	96	95	97
140-37232-2	M23 - NO.7 BOILER OUTLET -	91	97	90	107
	RUN 2 - COMBINED				
140-37232-3	M23 - NO.7 BOILER OUTLET -	93	96	93	106
	RUN 3 - COMBINED				
140-37232-4	M23 - NO.7 BOILER OUTLET -	93	96	93	104
	RUN 4 - COMBINED				
140-37232-5	M23 - NO.7 BOILER OUTLET -	98	103	100	113
	RUN 5 - COMBINED				
140-37232-6	M23 - NO.7 BOILER OUTLET -	95	98	93	109
	RUN 6 - COMBINED				
140-37232-7	M23 - NO.7 BOILER OUTLET -	91	95	93	104
	RUN 7 - COMBINED				
140-37232-8	M23 - NO.7 BOILER OUTLET -	96	100	94	111
	RUN FB - COMBINED				
140-37232-14	A-2232,A-2233 M23 MEDIA	89	96	85	106
	CHECK XAD,FILTER				
MB 140-88193/21-B	Method Blank	91	93	90	102

Surrogate Legend

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
PCB114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L
PCB156L = PCB-156L
PCB157L = PCB-157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB170L = PCB-170L
PCB188L = PCB-188L
PCB189L = PCB-189L
PCB202L = PCB-202L

Isotope Dilution Summary

Client: Alliance Source Testing LLC

Job ID: 140-37232-1

Project/Site: BASF 24-2594 - M23 PAH/PCB

PCB205L = PCB-205L

PCB206L = PCB-206L

PCB208L = PCB-208L

PCB209L = PCB-209L

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB1L (15-145)	PCB3L (15-145)	PCB4L (15-145)	PCB15L (15-145)	PCB19L (15-145)	PCB37L (15-145)	PCB54L (15-145)	PCB77L (40-145)
LCS 140-88193/19-B	Lab Control Sample	74	73	72	71	68	73	78	79
LCSD 140-88193/20-B	Lab Control Sample Dup	67	70	65	69	66	72	75	78

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB81L (40-145)	PCB104L (40-145)	PCB105L (40-145)	PCB114L (40-145)	PCB118L (40-145)	PCB123L (40-145)	PCB126L (40-145)	PCB155L (40-145)
LCS 140-88193/19-B	Lab Control Sample	78	74	85	80	81	79	84	74
LCSD 140-88193/20-B	Lab Control Sample Dup	77	72	82	77	77	76	84	70

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB156L (40-145)	PCB157L (40-145)	PCB167L (40-145)	PCB169L (40-145)	PCB170L (40-145)	PCB188L (40-145)	PCB189L (40-145)	PCB202L (40-145)
LCS 140-88193/19-B	Lab Control Sample	86 C	86 C156	83	86	86	77	86	79
LCSD 140-88193/20-B	Lab Control Sample Dup	84 C	84 C156	81	86	83	73	82	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB205L (40-145)	PCB206L (40-145)	PCB208L (40-145)	PCB209L (40-145)				
LCS 140-88193/19-B	Lab Control Sample	86	88	86	96				
LCSD 140-88193/20-B	Lab Control Sample Dup	81	87	83	94				

Surrogate Legend

PCB1L = PCB-1L

PCB3L = PCB-3L

PCB4L = PCB-4L

PCB15L = PCB-15L

PCB19L = PCB-19L

PCB37L = PCB-37L

PCB54L = PCB-54L

PCB77L = PCB-77L

PCB81L = PCB-81L

PCB104L = PCB-104L

PCB105L = PCB-105L

PCB114L = PCB-114L

PCB118L = PCB-118L

PCB123L = PCB-123L

PCB126L = PCB-126L

PCB155L = PCB-155L

PCB156L = PCB-156L

PCB157L = PCB-157L

PCB167L = PCB-167L

PCB169L = PCB-169L

PCB170L = PCB-170L

PCB188L = PCB-188L

PCB189L = PCB-189L

PCB202L = PCB-202L

PCB205L = PCB-205L

PCB206L = PCB-206L

Isotope Dilution Summary

Client: Alliance Source Testing LLC

Job ID: 140-37232-1

Project/Site: BASF 24-2594 - M23 PAH/PCB

PCB208L = PCB-208L

PCB209L = PCB-209L

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6N (20-130)	C62MN (20-130)	C6Acy (20-130)	C6Ace (20-130)	C6Fle (20-130)	C6Fla (20-130)	C3Pyr (20-130)	C6BaA (20-130)
140-37232-1	M23 - NO.7 BOILER OUTLET -	56	56	81	74	93	94	89	60
140-37232-2	M23 - NO.7 BOILER OUTLET -	64	68	91	81	89	91	84	65
	RUN 2 - COMBINED								
140-37232-3	M23 - NO.7 BOILER OUTLET -	62	63	90	84	89	92	89	60
	RUN 3 - COMBINED								
140-37232-4	M23 - NO.7 BOILER OUTLET -	41	39	61	57	64	77	74	55
	RUN 4 - COMBINED								
140-37232-5	M23 - NO.7 BOILER OUTLET -	48	52	70	65	73	79	72	61
	RUN 5 - COMBINED								
140-37232-6	M23 - NO.7 BOILER OUTLET -	16 *5-	56	78	75	81	84	76	69
	RUN 6 - COMBINED								
140-37232-7	M23 - NO.7 BOILER OUTLET -	59	61	86	79	87	84	80	71
	RUN 7 - COMBINED								
140-37232-8	M23 - NO.7 BOILER OUTLET -	18 *5-	50	73	69	87	79	74	69
	RUN FB - COMBINED								
140-37232-14	A-2232,A-2233 M23 MEDIA	65	63	85	78	90	59	61	40
	CHECK XAD,FILTER								
LCS 140-88192/19-B	Lab Control Sample	82	70	91	84	91	91	93	94
LCSD 140-88192/20-B	Lab Control Sample Dup	83	73	90	84	91	91	91	91
MB 140-88192/21-B	Method Blank	72	67	93	84	96	93	94	78

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6Chr (20-130)	C6BbF (20-130)	C6BkF (20-130)	C4BeP (20-130)	C4BaP (20-130)	PRY (20-130)	IND (20-130)	DBA (20-130)
140-37232-1	M23 - NO.7 BOILER OUTLET -	64	82	85	78	87	85	72	81
140-37232-2	M23 - NO.7 BOILER OUTLET -	69	76	80	77	87	86	91	96
	RUN 2 - COMBINED								
140-37232-3	M23 - NO.7 BOILER OUTLET -	63	67	83	63	85	85	81	89
	RUN 3 - COMBINED								
140-37232-4	M23 - NO.7 BOILER OUTLET -	63	67	76	73	77	83	74	81
	RUN 4 - COMBINED								
140-37232-5	M23 - NO.7 BOILER OUTLET -	63	69	75	69	76	74	87	88
	RUN 5 - COMBINED								
140-37232-6	M23 - NO.7 BOILER OUTLET -	71	82	81	77	82	79	95	93
	RUN 6 - COMBINED								
140-37232-7	M23 - NO.7 BOILER OUTLET -	72	80	89	80	92	91	94	109
	RUN 7 - COMBINED								
140-37232-8	M23 - NO.7 BOILER OUTLET -	67	82	81	80	84	85	99	93
	RUN FB - COMBINED								
140-37232-14	A-2232,A-2233 M23 MEDIA	40	59	57	58	58	61	50	48
	CHECK XAD,FILTER								
LCS 140-88192/19-B	Lab Control Sample	91	103	94	92	95	95	103	90
LCSD 140-88192/20-B	Lab Control Sample Dup	88	99	92	92	93	96	104	98
MB 140-88192/21-B	Method Blank	76	96	94	87	89	92	99	99

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		BghiP (20-130)	AN (20-130)	C6Ph (20-130)
140-37232-1	M23 - NO.7 BOILER OUTLET -	70	92	87
140-37232-2	M23 - NO.7 BOILER OUTLET -	87	83	69
	RUN 2 - COMBINED			
140-37232-3	M23 - NO.7 BOILER OUTLET -	80	84	81
	RUN 3 - COMBINED			

Isotope Dilution Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		BghiP (20-130)	AN (20-130)	C6Ph (20-130)
140-37232-4	M23 - NO.7 BOILER OUTLET -	73	63	61
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	77	71	63
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	74	91	78
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	95	81	71
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	83	95	79
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	46	33	29
LCS 140-88192/19-B	Lab Control Sample	82	78	68
LCSD 140-88192/20-B	Lab Control Sample Dup	81	80	70
MB 140-88192/21-B	Method Blank	86	92	79

Surrogate Legend

C6N = 13C6-Naphthalene
 C62MN = 13C6-2-Methylnaphthalene
 C6Acy = 13C6-Acenaphthylene
 C6Ace = 13C6-Acenaphthene
 C6Fle = 13C6-Fluorene
 C6Fla = 13C6-Fluoranthrene
 C3Pyr = 13C3-Pyrene
 C6BaA = 13C6-Benzo(a)anthracene
 C6Chr = 13C6-Chrysene
 C6BbF = 13C6-Benzo(b)fluoranthene
 C6BkF = 13C6-Benzo(k)fluoranthene
 C4BeP = 13C4-Benzo(e)pyrene
 C4BaP = 13C4-Benzo(a)pyrene
 PRY = Perylene-d12
 IND = 13C6-Indeno(1,2,3-cd)pyrene
 DBA = 13C6-Dibenz(a,h)anthracene
 BghiP = 13C12-Benzo(ghi)perylene
 AN = 13C6-Anthracene
 C6Ph = 13C6-Phenanthrene

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Lab Sample ID: MB 140-88193/21-B

Matrix: Air

Analysis Batch: 88747

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88193

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	ND		0.600	0.132	0.0112	ng/Sample		07/15/24 16:31	1
PCB-18	ND	C	0.600	0.285	0.00504	ng/Sample		07/15/24 16:31	1
PCB-28	0.03705	J C20 q	0.600	0.252	0.0106	ng/Sample		07/15/24 16:31	1
PCB-44	0.04942	J C	0.900	0.390	0.0120	ng/Sample		07/15/24 16:31	1
PCB-52	ND		0.300	0.132	0.0127	ng/Sample		07/15/24 16:31	1
PCB-66	ND		0.300	0.120	0.00925	ng/Sample		07/15/24 16:31	1
PCB-77	ND		0.300	0.126	0.0106	ng/Sample		07/15/24 16:31	1
PCB-81	ND		0.300	0.0960	0.0110	ng/Sample		07/15/24 16:31	1
PCB-101	ND	C90	0.900	0.390	0.0101	ng/Sample		07/15/24 16:31	1
PCB-105	ND		0.300	0.102	0.0141	ng/Sample		07/15/24 16:31	1
PCB-114	ND		0.300	0.165	0.0149	ng/Sample		07/15/24 16:31	1
PCB-118	ND		0.300	0.183	0.0133	ng/Sample		07/15/24 16:31	1
PCB-123	ND		0.300	0.171	0.0154	ng/Sample		07/15/24 16:31	1
PCB-126	ND		0.300	0.123	0.0156	ng/Sample		07/15/24 16:31	1
PCB-128	0.005771	J C q	0.600	0.204	0.00396	ng/Sample		07/15/24 16:31	1
PCB-138	ND	C129	1.20	0.510	0.00411	ng/Sample		07/15/24 16:31	1
PCB-153	0.005324	J C q	0.600	0.249	0.00356	ng/Sample		07/15/24 16:31	1
PCB-156	ND	C	0.600	0.255	0.00443	ng/Sample		07/15/24 16:31	1
PCB-157	ND	C156	0.600	0.255	0.00443	ng/Sample		07/15/24 16:31	1
PCB-167	ND		0.300	0.180	0.00289	ng/Sample		07/15/24 16:31	1
PCB-169	ND		0.300	0.123	0.00276	ng/Sample		07/15/24 16:31	1
PCB-170	ND		0.300	0.132	0.00421	ng/Sample		07/15/24 16:31	1
PCB-180	ND	C	0.600	0.204	0.00338	ng/Sample		07/15/24 16:31	1
PCB-187	ND		0.300	0.126	0.00358	ng/Sample		07/15/24 16:31	1
PCB-189	ND		0.300	0.147	0.00459	ng/Sample		07/15/24 16:31	1
PCB-195	ND		0.300	0.159	0.00414	ng/Sample		07/15/24 16:31	1
PCB-206	ND		0.300	0.171	0.0152	ng/Sample		07/15/24 16:31	1
PCB-209	ND		0.300	0.138	0.00132	ng/Sample		07/15/24 16:31	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	69		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-3L	76		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-4L	66		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-15L	72		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-19L	69		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-37L	75		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-54L	80		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-77L	80		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-81L	80		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-104L	80		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-105L	87		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-114L	82		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-118L	83		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-123L	82		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-126L	88		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-155L	77		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-156L	88	C	20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-157L	88	C156	20 - 145	06/27/24 14:35	07/15/24 16:31	1

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: MB 140-88193/21-B
Matrix: Air
Analysis Batch: 88747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88193

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
PCB-167L	83		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-169L	90		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-170L	86		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-188L	80		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-189L	88		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-202L	81		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-205L	91		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-206L	93		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-208L	90		20 - 145	06/27/24 14:35	07/15/24 16:31	1
PCB-209L	102		20 - 145	06/27/24 14:35	07/15/24 16:31	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
PCB-28L	72		20 - 130	06/27/24 14:35	07/15/24 16:31	1
PCB-111L	73		20 - 130	06/27/24 14:35	07/15/24 16:31	1
PCB-178L	75		20 - 130	06/27/24 14:35	07/15/24 16:31	1

Lab Sample ID: LCS 140-88193/19-B
Matrix: Air
Analysis Batch: 88747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1	15.0	14.32		ng/Sample		95	60 - 135
PCB-3	15.0	14.23		ng/Sample		95	60 - 135
PCB-4	15.0	14.09		ng/Sample		94	60 - 135
PCB-15	15.0	14.44		ng/Sample		96	60 - 135
PCB-19	15.0	13.56		ng/Sample		90	60 - 135
PCB-37	15.0	13.98		ng/Sample		93	60 - 135
PCB-54	15.0	14.30		ng/Sample		95	60 - 135
PCB-77	15.0	13.34		ng/Sample		89	60 - 135
PCB-81	15.0	13.65		ng/Sample		91	60 - 135
PCB-104	15.0	13.97		ng/Sample		93	60 - 135
PCB-105	15.0	14.04		ng/Sample		94	60 - 135
PCB-114	15.0	13.87		ng/Sample		92	60 - 135
PCB-118	15.0	13.37		ng/Sample		89	60 - 135
PCB-123	15.0	14.01		ng/Sample		93	60 - 135
PCB-126	15.0	14.13		ng/Sample		94	60 - 135
PCB-155	15.0	14.46		ng/Sample		96	60 - 135
PCB-156	30.0	28.29	C	ng/Sample		94	60 - 135
PCB-157	30.0	28.29	C156	ng/Sample		94	60 - 135
PCB-167	15.0	13.90		ng/Sample		93	60 - 135
PCB-169	15.0	14.12		ng/Sample		94	60 - 135
PCB-188	15.0	13.94		ng/Sample		93	60 - 135
PCB-189	15.0	14.59		ng/Sample		97	60 - 135
PCB-202	15.0	14.63		ng/Sample		98	60 - 135
PCB-205	15.0	13.81		ng/Sample		92	60 - 135
PCB-206	15.0	13.02		ng/Sample		87	60 - 135
PCB-208	15.0	14.06		ng/Sample		94	60 - 135
PCB-209	15.0	14.30		ng/Sample		95	60 - 135

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
PCB-1L	74		15 - 145
PCB-3L	73		15 - 145
PCB-4L	72		15 - 145
PCB-15L	71		15 - 145
PCB-19L	68		15 - 145
PCB-37L	73		15 - 145
PCB-54L	78		15 - 145
PCB-77L	79		40 - 145
PCB-81L	78		40 - 145
PCB-104L	74		40 - 145
PCB-105L	85		40 - 145
PCB-114L	80		40 - 145
PCB-118L	81		40 - 145
PCB-123L	79		40 - 145
PCB-126L	84		40 - 145
PCB-155L	74		40 - 145
PCB-156L	86	C	40 - 145
PCB-157L	86	C156	40 - 145
PCB-167L	83		40 - 145
PCB-169L	86		40 - 145
PCB-170L	86		40 - 145
PCB-188L	77		40 - 145
PCB-189L	86		40 - 145
PCB-202L	79		40 - 145
PCB-205L	86		40 - 145
PCB-206L	88		40 - 145
PCB-208L	86		40 - 145
PCB-209L	96		40 - 145

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
PCB-28L	67		15 - 145
PCB-111L	72		40 - 145
PCB-178L	70		40 - 145

Lab Sample ID: LCSD 140-88193/20-B
Matrix: Air
Analysis Batch: 88747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
PCB-1	15.0	14.27		ng/Sample		95	60 - 135		0	50
PCB-3	15.0	13.98		ng/Sample		93	60 - 135		2	50
PCB-4	15.0	14.30		ng/Sample		95	60 - 135		1	50
PCB-15	15.0	14.03		ng/Sample		94	60 - 135		3	50
PCB-19	15.0	13.45		ng/Sample		90	60 - 135		1	50
PCB-37	15.0	14.09	G	ng/Sample		94	60 - 135		1	50
PCB-54	15.0	14.11		ng/Sample		94	60 - 135		1	50
PCB-77	15.0	13.57		ng/Sample		90	60 - 135		2	50
PCB-81	15.0	13.54		ng/Sample		90	60 - 135		1	50
PCB-104	15.0	14.24		ng/Sample		95	60 - 135		2	50
PCB-105	15.0	13.85		ng/Sample		92	60 - 135		1	50
PCB-114	15.0	13.99		ng/Sample		93	60 - 135		1	50

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-88193/20-B
Matrix: Air
Analysis Batch: 88747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88193

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-118	15.0	13.80		ng/Sample		92	60 - 135	3	50
PCB-123	15.0	13.15		ng/Sample		88	60 - 135	6	50
PCB-126	15.0	14.15		ng/Sample		94	60 - 135	0	50
PCB-155	15.0	14.74		ng/Sample		98	60 - 135	2	50
PCB-156	30.0	28.43	C	ng/Sample		95	60 - 135	0	50
PCB-157	30.0	28.43	C156	ng/Sample		95	60 - 135	0	50
PCB-167	15.0	13.86		ng/Sample		92	60 - 135	0	50
PCB-169	15.0	13.79		ng/Sample		92	60 - 135	2	50
PCB-188	15.0	13.59		ng/Sample		91	60 - 135	3	50
PCB-189	15.0	14.28		ng/Sample		95	60 - 135	2	50
PCB-202	15.0	14.79		ng/Sample		99	60 - 135	1	50
PCB-205	15.0	14.31		ng/Sample		95	60 - 135	4	50
PCB-206	15.0	13.16		ng/Sample		88	60 - 135	1	50
PCB-208	15.0	13.92		ng/Sample		93	60 - 135	1	50
PCB-209	15.0	14.25		ng/Sample		95	60 - 135	0	50

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
PCB-1L	67		15 - 145
PCB-3L	70		15 - 145
PCB-4L	65		15 - 145
PCB-15L	69		15 - 145
PCB-19L	66		15 - 145
PCB-37L	72		15 - 145
PCB-54L	75		15 - 145
PCB-77L	78		40 - 145
PCB-81L	77		40 - 145
PCB-104L	72		40 - 145
PCB-105L	82		40 - 145
PCB-114L	77		40 - 145
PCB-118L	77		40 - 145
PCB-123L	76		40 - 145
PCB-126L	84		40 - 145
PCB-155L	70		40 - 145
PCB-156L	84	C	40 - 145
PCB-157L	84	C156	40 - 145
PCB-167L	81		40 - 145
PCB-169L	86		40 - 145
PCB-170L	83		40 - 145
PCB-188L	73		40 - 145
PCB-189L	82		40 - 145
PCB-202L	76		40 - 145
PCB-205L	81		40 - 145
PCB-206L	87		40 - 145
PCB-208L	83		40 - 145
PCB-209L	94		40 - 145

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-28L	66		15 - 145

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-88193/20-B
Matrix: Air
Analysis Batch: 88747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88193

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-111L	69		40 - 145
PCB-178L	68		40 - 145

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Lab Sample ID: MB 140-88192/21-B
Matrix: Air
Analysis Batch: 88945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88192

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	1119		75.0	75.0	0.0862	ng/Sample		07/19/24 00:57	1
2-Methylnaphthalene	20.85	J	75.0	75.0	0.0421	ng/Sample		07/19/24 00:57	1
Acenaphthylene	0.6786	J	3.00	3.00	0.0314	ng/Sample		07/19/24 00:57	1
Acenaphthene	8.559	J	30.0	30.0	0.0426	ng/Sample		07/19/24 00:57	1
Fluorene	7.319	J	30.0	30.0	0.0447	ng/Sample		07/19/24 00:57	1
Phenanthrene	18.18		6.00	6.00	0.0509	ng/Sample		07/19/24 00:57	1
Anthracene	0.6294	J	30.0	30.0	0.0484	ng/Sample		07/19/24 00:57	1
Fluoranthene	15.46		6.00	6.00	0.0445	ng/Sample		07/19/24 00:57	1
Pyrene	55.75		6.00	6.00	0.0418	ng/Sample		07/19/24 00:57	1
Benzo[a]anthracene	0.1461	J	6.00	6.00	0.0525	ng/Sample		07/19/24 00:57	1
Chrysene	1.403	J	6.00	6.00	0.0542	ng/Sample		07/19/24 00:57	1
Benzo[b]fluoranthene	0.7774	J	30.0	30.0	0.00941	ng/Sample		07/19/24 00:57	1
Benzo[k]fluoranthene	0.1864	J	6.00	6.00	0.00948	ng/Sample		07/19/24 00:57	1
Benzo[e]pyrene	1.607	J	6.00	6.00	0.00870	ng/Sample		07/19/24 00:57	1
Benzo[a]pyrene	1.130	J	3.00	3.00	0.00791	ng/Sample		07/19/24 00:57	1
Perylene	0.3756	J	3.00	3.00	0.00747	ng/Sample		07/19/24 00:57	1
Indeno[1,2,3-cd]pyrene	0.9852	J	3.00	3.00	0.00865	ng/Sample		07/19/24 00:57	1
Dibenz(a,h)anthracene	0.1901	J	6.00	6.00	0.00432	ng/Sample		07/19/24 00:57	1
Benzo[g,h,i]perylene	4.009	J	6.00	6.00	0.00706	ng/Sample		07/19/24 00:57	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	72		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-2-Methylnaphthalene	67		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Acenaphthylene	93		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Acenaphthene	84		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Fluorene	96		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Fluoranthrene	93		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C3-Pyrene	94		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Benzo(a)anthracene	78		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Chrysene	76		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Benzo(b)fluoranthene	96		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Benzo(k)fluoranthene	94		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C4-Benzo(e)pyrene	87		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C4-Benzo(a)pyrene	89		20 - 130	06/27/24 14:06	07/19/24 00:57	1
Perylene-d12	92		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Indeno(1,2,3-cd)pyrene	99		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Dibenz(a,h)anthracene	99		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C12-Benzo(ghi)perylene	86		20 - 130	06/27/24 14:06	07/19/24 00:57	1
13C6-Anthracene	92		20 - 130	06/27/24 14:06	07/19/24 00:57	1

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: MB 140-88192/21-B
Matrix: Air
Analysis Batch: 88945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88192

Isotope Dilution	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Phenanthrene	79		20 - 130	06/27/24 14:06	07/19/24 00:57	1

Lab Sample ID: LCS 140-88192/19-B
Matrix: Air
Analysis Batch: 88920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88192

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	150	1224	*+	ng/Sample		816	60 - 140
2-Methylnaphthalene	150	163.8		ng/Sample		109	60 - 140
Acenaphthylene	150	125.0		ng/Sample		83	60 - 140
Acenaphthene	150	141.4		ng/Sample		94	60 - 140
Fluorene	150	147.0		ng/Sample		98	60 - 140
Phenanthrene	150	164.4		ng/Sample		110	60 - 140
Anthracene	150	131.1		ng/Sample		87	60 - 140
Fluoranthene	150	159.9		ng/Sample		107	60 - 140
Pyrene	150	202.9		ng/Sample		135	60 - 140
Benzo[a]anthracene	150	162.5		ng/Sample		108	60 - 140
Chrysene	150	160.9		ng/Sample		107	60 - 140
Benzo[b]fluoranthene	150	143.0		ng/Sample		95	60 - 140
Benzo[k]fluoranthene	150	132.3		ng/Sample		88	60 - 140
Benzo[e]pyrene	150	146.0		ng/Sample		97	60 - 140
Benzo[a]pyrene	150	129.5		ng/Sample		86	60 - 140
Perylene	150	137.5		ng/Sample		92	60 - 140
Indeno[1,2,3-cd]pyrene	150	148.1		ng/Sample		99	60 - 140
Dibenz(a,h)anthracene	150	146.9		ng/Sample		98	60 - 140
Benzo[g,h,i]perylene	150	145.8		ng/Sample		97	60 - 140

Isotope Dilution	LCS LCS %Recovery	Qualifier	Limits
13C6-Naphthalene	82		20 - 130
13C6-2-Methylnaphthalene	70		20 - 130
13C6-Acenaphthylene	91		20 - 130
13C6-Acenaphthene	84		20 - 130
13C6-Fluorene	91		20 - 130
13C6-Fluoranthrene	91		20 - 130
13C3-Pyrene	93		20 - 130
13C6-Benzo(a)anthracene	94		20 - 130
13C6-Chrysene	91		20 - 130
13C6-Benzo(b)fluoranthene	103		20 - 130
13C6-Benzo(k)fluoranthene	94		20 - 130
13C4-Benzo(e)pyrene	92		20 - 130
13C4-Benzo(a)pyrene	95		20 - 130
Perylene-d12	95		20 - 130
13C6-Indeno(1,2,3-cd)pyrene	103		20 - 130
13C6-Dibenz(a,h)anthracene	90		20 - 130
13C12-Benzo(ghi)perylene	82		20 - 130
13C6-Anthracene	78		20 - 130
13C6-Phenanthrene	68		20 - 130

QC Sample Results

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-88192/20-B

Matrix: Air

Analysis Batch: 88920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88192

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	150	1037	*+	ng/Sample		691	60 - 140	17	25
2-Methylnaphthalene	150	153.8		ng/Sample		103	60 - 140	6	25
Acenaphthylene	150	121.9		ng/Sample		81	60 - 140	2	25
Acenaphthene	150	135.5		ng/Sample		90	60 - 140	4	25
Fluorene	150	140.8		ng/Sample		94	60 - 140	4	25
Phenanthrene	150	158.6		ng/Sample		106	60 - 140	4	25
Anthracene	150	126.8		ng/Sample		85	60 - 140	3	25
Fluoranthene	150	153.2		ng/Sample		102	60 - 140	4	25
Pyrene	150	190.9		ng/Sample		127	60 - 140	6	25
Benzo[a]anthracene	150	160.0		ng/Sample		107	60 - 140	2	25
Chrysene	150	161.0		ng/Sample		107	60 - 140	0	25
Benzo[b]fluoranthene	150	142.3		ng/Sample		95	60 - 140	0	25
Benzo[k]fluoranthene	150	138.9		ng/Sample		93	60 - 140	5	25
Benzo[e]pyrene	150	144.6		ng/Sample		96	60 - 140	1	25
Benzo[a]pyrene	150	129.1		ng/Sample		86	60 - 140	0	25
Perylene	150	135.0		ng/Sample		90	60 - 140	2	25
Indeno[1,2,3-cd]pyrene	150	144.5		ng/Sample		96	60 - 140	2	25
Dibenz(a,h)anthracene	150	147.5		ng/Sample		98	60 - 140	0	25
Benzo[g,h,i]perylene	150	146.7		ng/Sample		98	60 - 140	1	25

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C6-Naphthalene	83		20 - 130
13C6-2-Methylnaphthalene	73		20 - 130
13C6-Acenaphthylene	90		20 - 130
13C6-Acenaphthene	84		20 - 130
13C6-Fluorene	91		20 - 130
13C6-Fluoranthrene	91		20 - 130
13C3-Pyrene	91		20 - 130
13C6-Benzo(a)anthracene	91		20 - 130
13C6-Chrysene	88		20 - 130
13C6-Benzo(b)fluoranthene	99		20 - 130
13C6-Benzo(k)fluoranthene	92		20 - 130
13C4-Benzo(e)pyrene	92		20 - 130
13C4-Benzo(a)pyrene	93		20 - 130
Perylene-d12	96		20 - 130
13C6-Indeno(1,2,3-cd)pyrene	104		20 - 130
13C6-Dibenz(a,h)anthracene	98		20 - 130
13C12-Benzo(ghi)perylene	81		20 - 130
13C6-Anthracene	80		20 - 130
13C6-Phenanthrene	70		20 - 130

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED

Lab Sample ID: 140-37232-1

Date Collected: 06/11/24 15:40

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88747	07/15/24 18:33	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88945	07/19/24 02:02	MSP	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

Lab Sample ID: 140-37232-2

Date Collected: 06/11/24 18:55

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 03:58	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88999	07/20/24 05:09	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

Lab Sample ID: 140-37232-3

Date Collected: 06/12/24 14:00

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 04:59	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88978	07/19/24 19:27	JMN	EET KNX
Instrument ID: D3PAH										

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Lab Sample ID: 140-37232-4

Date Collected: 06/12/24 18:30

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 06:00	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88978	07/19/24 20:31	JMN	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

Lab Sample ID: 140-37232-5

Date Collected: 06/13/24 15:30

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 07:01	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88999	07/20/24 06:13	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

Lab Sample ID: 140-37232-6

Date Collected: 06/13/24 18:05

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 08:02	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88999	07/20/24 07:18	LKM	EET KNX
Instrument ID: D3PAH										

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Lab Sample ID: 140-37232-7

Date Collected: 06/14/24 13:15

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 09:03	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88999	07/20/24 08:22	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Lab Sample ID: 140-37232-8

Date Collected: 06/14/24 16:00

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 10:05	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		10			88999	07/20/24 09:27	LKM	EET KNX
Instrument ID: D3PAH										

Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER

Lab Sample ID: 140-37232-14

Date Collected: 06/11/24 00:00

Matrix: Air

Date Received: 06/19/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88780	07/16/24 02:56	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		1			88978	07/19/24 15:05	JMN	EET KNX
Instrument ID: D3PAH										

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: Method Blank

Lab Sample ID: MB 140-88192/21-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		1			88945	07/19/24 00:57	MSP	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Method Blank

Lab Sample ID: MB 140-88193/21-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88747	07/15/24 16:31	LKM	EET KNX
Instrument ID: D2D										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-88192/19-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		1			88920	07/18/24 12:24	MSP	EET KNX
Instrument ID: D3PAH										

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-88193/19-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88747	07/15/24 13:44	LKM	EET KNX
Instrument ID: D2D										

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 140-88192/20-B

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88192	06/27/24 14:06	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	88337	07/02/24 10:15	DER	EET KNX
Total/NA	Analysis	23		1			88920	07/18/24 13:28	MSP	EET KNX
Instrument ID: D3PAH										

Lab Chronicle

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 140-88193/20-B
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	88193	06/27/24 14:35	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	88338	07/02/24 10:18	DER	EET KNX
Total/NA	Analysis	23		1			88747	07/15/24 14:45	LKM	EET KNX
Instrument ID: D2D										

Laboratory References:
EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Alliance Source Testing LLC
Project/Site: BASF 24-2594 - M23 PAH/PCB

Job ID: 140-37232-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-25
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-25
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	06-30-25
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	07-31-25
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-07-24

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: _____

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-23	21.82	Split Peak	V4XA	05/31/24 19:26
PCB-45	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-45/51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-21	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-21/33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-46	23.39	Incomplete Integration	P0IK	05/31/24 16:29
PCB-22	23.60	Baseline	V4XA	05/31/24 21:29
PCB-43	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-43/73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-40	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-40/41/71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-41	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-103	28.06	Baseline	V4XA	05/31/24 19:30
PCB-94	28.28	Invalid Compound ID	V4XA	05/31/24 19:30
PCB-102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98/102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88/91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-84	29.79	Incomplete Integration	P0IK	05/31/24 16:39
PCB-121	30.69	Baseline	P0IK	05/31/24 16:40
PCB-101	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-113	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90/101/113	31.63	Split Peak	V4XA	05/31/24 19:29

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: _____

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-83	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-83/99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-112	32.34	Baseline	V4XA	05/31/24 19:30
PCB-109	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-119	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86/87/97/109/119/125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-87	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-97	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-79	32.72	Baseline	P0IK	05/31/24 16:32
PCB-78	33.30	Incomplete Integration	P0IK	05/31/24 16:30
PCB-110	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-110/115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-81	33.71	Incomplete Integration	P0IK	05/31/24 16:31
PCB-77	34.27	Incomplete Integration	P0IK	05/31/24 16:31
PCB-135	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-135/151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-154	34.78	Baseline	V4XA	05/31/24 19:31
PCB-120	34.81	Split Peak	V4XA	05/31/24 21:31
PCB-144	35.13	Incomplete Integration	P0IK	05/31/24 16:42
PCB-147	35.47	Baseline	V4XA	05/31/24 19:32
PCB-147/149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-108	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-108/124	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-124	35.92	Split Peak	V4XA	05/31/24 21:31

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: _____

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-131	36.28	Baseline	P0IK	06/01/24 11:28
PCB-142	36.41	Baseline	P0IK	06/01/24 11:28
PCB-129	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-129/138/160/163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-138	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-160	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-158	40.13	Incomplete Integration	P0IK	05/31/24 16:43
PCB-126	40.87	Baseline	P0IK	05/31/24 16:41
PCB-128	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-128/166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-159L	41.95	Peak assignment corrected	P0IK	05/31/24 16:25
PCB-162	42.25	Baseline	P0IK	05/31/24 17:03
PCB-177	42.38	Baseline	V4XA	05/31/24 19:32
PCB-167	42.73	Incomplete Integration	P0IK	05/31/24 15:37
PCB-197	44.35	Incomplete Integration	P0IK	05/31/24 17:04
PCB-169	47.11	Incomplete Integration	P0IK	05/31/24 15:37
PCB-196	47.93	Incomplete Integration	P0IK	05/31/24 17:05
PCB-208	49.19	Baseline	P0IK	05/31/24 15:38
PCB-195	49.38	Baseline	V4XA	05/31/24 19:33
PCB-207	50.09	Incomplete Integration	P0IK	05/31/24 17:05
PCB-194	51.77	Incomplete Integration	P0IK	05/31/24 17:05
PCB-205	52.21	Incomplete Integration	P0IK	05/31/24 15:38
PCB-206	53.98	Baseline	P0IK	05/31/24 15:39

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2

Client Sample ID: _____

Date Analyzed: 05/31/24 16:53

Lab File ID: d2240531pi2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-6	16.42	Baseline	V4XA	05/31/24 19:42
PCB-54L	20.22	Baseline	V4XA	05/31/24 21:35
PCB-54	20.24	Baseline	P0IK	05/31/24 17:57
PCB-21	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-21/33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45/51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-43	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-43/73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49/69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-104	25.75	Baseline	P0IK	05/31/24 17:55
PCB-38	26.10	Split Peak	V4XA	05/31/24 21:34
PCB-40	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-40/41/71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-41	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-64	27.06	Split Peak	V4XA	05/31/24 21:35
PCB-102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98/102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-61	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-61/70/74/76	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-70	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-74	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-76	29.59	Incomplete Integration	P0IK	05/31/24 18:04

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2

Client Sample ID: _____

Date Analyzed: 05/31/24 16:53

Lab File ID: d2240531pi2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-89	30.29	Baseline	V4XA	05/31/24 19:36
PCB-121	30.69	Baseline	V4XA	05/31/24 19:36
PCB-92	31.07	Baseline	V4XA	05/31/24 19:36
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-109	32.74	Baseline	V4XA	05/31/24 19:36
PCB-119	32.74	Baseline	V4XA	05/31/24 19:36
PCB-125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86/87/97/109/119/125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-87	32.74	Baseline	V4XA	05/31/24 19:36
PCB-97	32.74	Baseline	V4XA	05/31/24 19:36
PCB-78	33.29	Baseline	V4XA	05/31/24 21:36
PCB-110	33.65	Baseline	V4XA	05/31/24 19:36
PCB-110/115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-81	33.71	Split Peak	V4XA	05/31/24 19:35
PCB-135	34.60	Baseline	V4XA	05/31/24 21:38
PCB-135/151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-134	35.68	Baseline	V4XA	05/31/24 21:38
PCB-134/143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-108	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-108/124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-107	36.18	Split Peak	V4XA	05/31/24 20:09
PCB-131	36.28	Baseline	V4XA	06/01/24 03:35
PCB-142	36.40	Baseline	V4XA	06/01/24 03:35

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2 Client Sample ID: _____

Date Analyzed: 05/31/24 16:53 Lab File ID: d2240531pi2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-105	37.78	Split Peak	V4XA	05/31/24 21:37
PCB-129	39.74	Baseline	V4XA	05/31/24 21:39
PCB-129/138/160/163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-138	39.74	Baseline	V4XA	05/31/24 21:39
PCB-160	39.74	Baseline	V4XA	05/31/24 21:39
PCB-163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-183	41.71	Baseline	V4XA	05/31/24 19:40
PCB-183/185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-159	41.96	Split Peak	V4XA	05/31/24 21:39
PCB-162	42.25	Split Peak	V4XA	05/31/24 21:39
PCB-177	42.38	Baseline	V4XA	05/31/24 19:41
PCB-170	46.55	Baseline	V4XA	05/31/24 19:40
PCB-169	47.12	Baseline	V4XA	05/31/24 21:40
PCB-208	49.20	Baseline	P0IK	05/31/24 17:56
PCB-195	49.39	Split Peak	V4XA	05/31/24 21:40
PCB-207	50.09	Baseline	V4XA	05/31/24 19:40
PCB-206	53.98	Baseline	P0IK	05/31/24 17:56

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3

Client Sample ID: _____

Date Analyzed: 05/31/24 18:00

Lab File ID: d2240531pi3.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.83	Baseline	P0IK	05/31/24 19:08
PCB-54L	20.20	Baseline	V4XA	05/31/24 21:43
PCB-21	23.13	Baseline	V4XA	05/31/24 21:42
PCB-21/33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-45	23.13	Baseline	V4XA	05/31/24 21:43
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-43	24.94	Baseline	V4XA	05/31/24 21:44
PCB-43/73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-40	26.80	Baseline	V4XA	05/31/24 21:44
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-41	26.80	Baseline	V4XA	05/31/24 21:44
PCB-71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98/102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-88	29.46	Baseline	V4XA	05/31/24 21:46
PCB-88/91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-61	29.57	Baseline	V4XA	05/31/24 21:44
PCB-61/70/74/76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-70	29.57	Baseline	V4XA	05/31/24 21:44
PCB-74	29.57	Baseline	V4XA	05/31/24 21:44
PCB-76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-56	30.56	Split Peak	V4XA	05/31/24 21:45
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:46

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3 Client Sample ID: _____

Date Analyzed: 05/31/24 18:00 Lab File ID: d2240531pi3.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-109	32.70	Baseline	V4XA	05/31/24 21:46
PCB-119	32.70	Baseline	V4XA	05/31/24 21:46
PCB-125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-87	32.70	Baseline	V4XA	05/31/24 21:46
PCB-97	32.70	Baseline	V4XA	05/31/24 21:46
PCB-78	33.25	Baseline	V4XA	05/31/24 21:45
PCB-116	33.43	Baseline	V4XA	05/31/24 21:47
PCB-117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85/116/117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-110	33.62	Baseline	V4XA	05/31/24 21:47
PCB-110/115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-81	33.70	Split Peak	V4XA	05/31/24 21:45
PCB-105	37.77	Split Peak	V4XA	05/31/24 21:47
PCB-127	39.25	Baseline	V4XA	05/31/24 21:48
PCB-129	39.73	Baseline	V4XA	05/31/24 21:50
PCB-129/138/160/163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-138	39.73	Baseline	V4XA	05/31/24 21:50
PCB-160	39.73	Baseline	V4XA	05/31/24 21:50
PCB-163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-183	41.69	Baseline	V4XA	05/31/24 21:50
PCB-183/185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-190	47.04	Split Peak	V4XA	05/31/24 21:51
PCB-208	49.18	Baseline	V4XA	05/31/24 21:51
PCB-207	50.11	Baseline	V4XA	05/31/24 21:51
PCB-206	53.97	Baseline	V4XA	05/31/24 21:51

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/4

Client Sample ID: _____

Date Analyzed: 05/31/24 19:10

Lab File ID: d2240531pi4.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.12	Baseline	V4XA	05/31/24 21:23
PCB-21/33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-45	23.13	Baseline	V4XA	05/31/24 21:23
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-52	24.78	Split Peak	V4XA	05/31/24 21:24
PCB-43	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-43/73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49/69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-40	26.80	Baseline	V4XA	05/31/24 21:25
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-41	26.80	Baseline	V4XA	05/31/24 21:25
PCB-71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-61	29.56	Baseline	V4XA	05/31/24 21:25
PCB-61/70/74/76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-70	29.56	Baseline	V4XA	05/31/24 21:25
PCB-74	29.56	Baseline	V4XA	05/31/24 21:25
PCB-76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-109	32.70	Baseline	V4XA	05/31/24 21:26
PCB-119	32.70	Baseline	V4XA	05/31/24 21:26
PCB-125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-87	32.70	Baseline	V4XA	05/31/24 21:26
PCB-97	32.70	Baseline	V4XA	05/31/24 21:26
PCB-135	34.53	Invalid Compound ID	V4XA	05/31/24 20:54

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/4 Client Sample ID: _____

Date Analyzed: 05/31/24 19:10 Lab File ID: d2240531pi4.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-135/151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-131	36.25	Baseline	V4XA	06/01/24 03:37
PCB-142	36.39	Baseline	V4XA	06/01/24 03:37
PCB-129	39.72	Baseline	V4XA	05/31/24 21:27
PCB-129/138/160/163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-138	39.72	Baseline	V4XA	05/31/24 21:27
PCB-160	39.72	Baseline	V4XA	05/31/24 21:27
PCB-163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-183	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-183/185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5

Client Sample ID: _____

Date Analyzed: 05/31/24 20:12

Lab File ID: d2240531pi5.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Baseline	V4XA	06/01/24 02:57
PCB-21/33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-45	23.12	Baseline	V4XA	06/01/24 02:57
PCB-45/51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-43	24.92	Baseline	V4XA	06/01/24 02:57
PCB-43/73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-40	26.79	Baseline	V4XA	06/01/24 02:58
PCB-40/41/71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-41	26.79	Baseline	V4XA	06/01/24 02:58
PCB-71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98/102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-61	29.55	Baseline	V4XA	06/01/24 02:58
PCB-61/70/74/76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-70	29.55	Baseline	V4XA	06/01/24 02:58
PCB-74	29.55	Baseline	V4XA	06/01/24 02:58
PCB-76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-109	32.68	Baseline	V4XA	06/01/24 02:58
PCB-119	32.68	Baseline	V4XA	06/01/24 02:58
PCB-125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-87	32.68	Baseline	V4XA	06/01/24 02:58
PCB-97	32.68	Baseline	V4XA	06/01/24 02:58
PCB-110	33.59	Baseline	V4XA	06/01/24 02:59
PCB-110/115	33.59	Baseline	V4XA	06/01/24 02:59

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5 Client Sample ID: _____

Date Analyzed: 05/31/24 20:12 Lab File ID: d2240531pi5.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-115	33.59	Baseline	V4XA	06/01/24 02:59
PCB-135	34.51	Baseline	V4XA	06/01/24 02:59
PCB-135/151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-129	39.72	Baseline	V4XA	06/01/24 03:00
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-138	39.72	Baseline	V4XA	06/01/24 03:00
PCB-160	39.72	Baseline	V4XA	06/01/24 03:00
PCB-163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-158	40.10	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/6

Client Sample ID: _____

Date Analyzed: 05/31/24 21:13

Lab File ID: d2240531pi6.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-54L	20.16	Baseline	V4XA	06/01/24 03:03
PCB-21	23.10	Baseline	V4XA	06/01/24 03:03
PCB-21/33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45/51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-43	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-43/73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-49	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-49/69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-40	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-40/41/71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-41	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-121	30.66	Baseline	V4XA	06/01/24 03:06
PCB-92	31.03	Baseline	V4XA	06/01/24 03:06
PCB-109	32.68	Baseline	V4XA	06/01/24 03:06
PCB-119	32.68	Baseline	V4XA	06/01/24 03:06
PCB-125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-87	32.68	Baseline	V4XA	06/01/24 03:06
PCB-97	32.68	Baseline	V4XA	06/01/24 03:06
PCB-135	34.51	Baseline	V4XA	06/01/24 03:06
PCB-135/151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-129	39.72	Baseline	V4XA	06/01/24 03:07

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/6 Client Sample ID: _____

Date Analyzed: 05/31/24 21:13 Lab File ID: d2240531pi6.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-138	39.72	Baseline	V4XA	06/01/24 03:07
PCB-160	39.72	Baseline	V4XA	06/01/24 03:07
PCB-163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: ICV 140-87130/7 Client Sample ID: _____

Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-21/33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45/51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-43	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-43/73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40/41/71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-41	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98/102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-109	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-119	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86/87/97/109/119/125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-87	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-97	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-135	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-135/151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129/138/160/163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-138	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-160	39.71	Incomplete Integration	P0IK	06/01/24 11:10

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: ICV 140-87130/7 Client Sample ID: _____

Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-183	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-183/185	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-185	41.67	Incomplete Integration	P0IK	06/01/24 11:11

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88747

Lab Sample ID: WDMCCV 140-88747/1 Client Sample ID: _____

Date Analyzed: 07/15/24 12:43 Lab File ID: d2240715c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-21/33	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-33	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-45	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-45/51	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-51	23.07	Incomplete Integration	F9EE	07/15/24 13:50
PCB-43	24.86	Incomplete Integration	F9EE	07/15/24 13:51
PCB-43/73	24.86	Incomplete Integration	F9EE	07/15/24 13:51
PCB-73	24.86	Incomplete Integration	F9EE	07/15/24 13:51
PCB-40	26.74	Incomplete Integration	F9EE	07/15/24 13:51
PCB-40/41/71	26.74	Incomplete Integration	F9EE	07/15/24 13:51
PCB-41	26.74	Incomplete Integration	F9EE	07/15/24 13:51
PCB-71	26.74	Incomplete Integration	F9EE	07/15/24 13:51
PCB-109	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-119	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-125	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-86	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-86/87/97/109/119/125	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-87	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-97	32.60	Incomplete Integration	F9EE	07/15/24 13:52
PCB-135	34.42	Incomplete Integration	F9EE	07/15/24 13:52
PCB-135/151	34.42	Incomplete Integration	F9EE	07/15/24 13:52
PCB-151	34.42	Incomplete Integration	F9EE	07/15/24 13:52
PCB-129	39.61	Incomplete Integration	F9EE	07/15/24 13:53
PCB-129/138/160/163	39.61	Incomplete Integration	F9EE	07/15/24 13:53
PCB-138	39.61	Incomplete Integration	F9EE	07/15/24 13:53
PCB-160	39.61	Incomplete Integration	F9EE	07/15/24 13:53
PCB-163	39.61	Incomplete Integration	F9EE	07/15/24 13:53
PCB-183	41.56	Incomplete Integration	F9EE	07/15/24 13:53
PCB-183/185	41.56	Incomplete Integration	F9EE	07/15/24 13:53

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88747

Lab Sample ID: WDMCCV 140-88747/1 Client Sample ID: _____

Date Analyzed: 07/15/24 12:43 Lab File ID: d2240715c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-185	41.56	Incomplete Integration	F9EE	07/15/24 13:53
PCB-190	46.92	Incomplete Integration	F9EE	07/15/24 13:54

Lab Sample ID: LCS 140-88193/19-B Client Sample ID: _____

Date Analyzed: 07/15/24 13:44 Lab File ID: lcs140-8819319-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-123	36.14	Invalid Compound ID	V4XA	07/15/24 19:43
PCB-138	39.60	Baseline	V4XA	07/15/24 19:41

Lab Sample ID: LCSD 140-88193/20-B Client Sample ID: _____

Date Analyzed: 07/15/24 14:45 Lab File ID: lcsd140-8819320-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-138	39.60	Baseline	V4XA	07/15/24 19:47

Lab Sample ID: MB 140-88193/21-B Client Sample ID: _____

Date Analyzed: 07/15/24 16:31 Lab File ID: mb140-8819321-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-19		Invalid Compound ID	V4XA	07/15/24 19:50
PCB-1	11.61	Baseline	V4XA	07/15/24 19:49
PCB-54L	20.14	Baseline	V4XA	07/15/24 19:51
PCB-153	38.35	Baseline	V4XA	07/15/24 19:53

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 88747
 Lab Sample ID: 140-37232-1 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
 Date Analyzed: 07/15/24 18:33 Lab File ID: 140-37232-a-1-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-195		Invalid Compound ID	P0IK	07/16/24 17:18
PCB-8L	16.84	Incomplete Integration	P0IK	07/16/24 17:06
PCB-8	16.87	Incomplete Integration	P0IK	07/16/24 17:07
PCB-52	24.76	Incomplete Integration	P0IK	07/16/24 17:11
PCB-44	25.75	Incomplete Integration	P0IK	07/16/24 17:12
PCB-101	31.53	Incomplete Integration	P0IK	07/16/24 17:14
PCB-170	46.38	Incomplete Integration	P0IK	07/16/24 17:17
PCB-209	55.42	Incomplete Integration	P0IK	07/16/24 17:18

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D

Analysis Batch Number: 88780

Lab Sample ID: WDMCCV 140-88780/1

Client Sample ID: _____

Date Analyzed: 07/16/24 00:00

Lab File ID: d2240715c2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.08	Baseline	V4XA	07/16/24 01:58
PCB-21/33	23.08	Baseline	V4XA	07/16/24 01:58
PCB-33	23.08	Baseline	V4XA	07/16/24 01:58
PCB-45	23.08	Baseline	V4XA	07/16/24 01:59
PCB-45/51	23.08	Baseline	V4XA	07/16/24 01:59
PCB-51	23.08	Baseline	V4XA	07/16/24 01:59
PCB-43	24.87	Baseline	V4XA	07/16/24 01:59
PCB-43/73	24.87	Baseline	V4XA	07/16/24 01:59
PCB-73	24.87	Baseline	V4XA	07/16/24 01:59
PCB-40	26.74	Baseline	V4XA	07/16/24 01:59
PCB-40/41/71	26.74	Baseline	V4XA	07/16/24 01:59
PCB-41	26.74	Baseline	V4XA	07/16/24 01:59
PCB-71	26.74	Baseline	V4XA	07/16/24 01:59
PCB-102	28.98	Baseline	V4XA	07/16/24 02:00
PCB-98	28.98	Baseline	V4XA	07/16/24 02:00
PCB-98/102	28.98	Baseline	V4XA	07/16/24 02:00
PCB-61	29.49	Baseline	V4XA	07/16/24 02:00
PCB-61/70/74/76	29.49	Baseline	V4XA	07/16/24 02:00
PCB-70	29.49	Baseline	V4XA	07/16/24 02:00
PCB-74	29.49	Baseline	V4XA	07/16/24 02:00
PCB-76	29.49	Baseline	V4XA	07/16/24 02:00
PCB-109	32.60	Baseline	V4XA	07/16/24 02:00
PCB-119	32.60	Baseline	V4XA	07/16/24 02:00
PCB-125	32.60	Baseline	V4XA	07/16/24 02:00
PCB-86	32.60	Baseline	V4XA	07/16/24 02:00
PCB-86/87/97/109/119/125	32.60	Baseline	V4XA	07/16/24 02:00
PCB-87	32.60	Baseline	V4XA	07/16/24 02:00
PCB-97	32.60	Baseline	V4XA	07/16/24 02:00
PCB-135	34.42	Baseline	V4XA	07/16/24 02:01
PCB-135/151	34.42	Baseline	V4XA	07/16/24 02:01

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D2D Analysis Batch Number: 88780
 Lab Sample ID: WDMCCV 140-88780/1 Client Sample ID: _____
 Date Analyzed: 07/16/24 00:00 Lab File ID: d2240715c2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-151	34.42	Baseline	V4XA	07/16/24 02:01
PCB-129	39.63	Baseline	V4XA	07/16/24 02:01
PCB-129/138/160/163	39.63	Baseline	V4XA	07/16/24 02:01
PCB-138	39.63	Baseline	V4XA	07/16/24 02:01
PCB-160	39.63	Baseline	V4XA	07/16/24 02:01
PCB-163	39.63	Baseline	V4XA	07/16/24 02:01
PCB-183	41.56	Invalid Compound ID	V4XA	07/16/24 02:02
PCB-183/185	41.56	Invalid Compound ID	V4XA	07/16/24 02:02
PCB-185	41.56	Invalid Compound ID	V4XA	07/16/24 02:02

Lab Sample ID: 140-37232-14 Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
 Date Analyzed: 07/16/24 02:56 Lab File ID: 140-37232-b-14-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-153	38.29	Baseline	V4XA	07/16/24 19:22

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88780

Lab Sample ID: 140-37232-2 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

Date Analyzed: 07/16/24 03:58 Lab File ID: 140-37232-a-2-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.79	Baseline	V4XA	07/16/24 19:24
PCB-18	18.95	Split Peak	V4XA	07/16/24 19:25
PCB-66	29.76	Baseline	V4XA	07/16/24 19:27
PCB-118	36.48	Baseline	V4XA	07/16/24 19:43
PCB-105	37.66	Baseline	V4XA	07/16/24 19:43
PCB-128	40.88	Baseline	V4XA	07/16/24 19:45
PCB-187	40.89	Baseline	V4XA	07/16/24 19:46
PCB-180	45.14	Baseline	V4XA	07/16/24 19:47
PCB-170	46.38	Baseline	V4XA	07/16/24 19:47
PCB-209	55.45	Baseline	V4XA	07/16/24 19:47

Lab Sample ID: 140-37232-3 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

Date Analyzed: 07/16/24 04:59 Lab File ID: 140-37232-a-3-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.88	Peak assignment corrected	V4XA	07/16/24 21:16
PCB-8	16.92	Baseline	V4XA	07/16/24 21:17
PCB-18	19.24	Split Peak	V4XA	07/16/24 21:19
PCB-15L	20.10	Peak assignment corrected	V4XA	07/16/24 21:16
PCB-52	24.78	Split Peak	V4XA	07/16/24 21:21
PCB-44	25.79	Split Peak	V4XA	07/16/24 21:22
PCB-101	31.57	Baseline	V4XA	07/16/24 21:25
PCB-77	34.20	Baseline	V4XA	07/16/24 21:24
PCB-105	37.69	Baseline	V4XA	07/16/24 21:26
PCB-138	39.63	Baseline	V4XA	07/16/24 21:40
PCB-128	40.90	Baseline	V4XA	07/16/24 21:40

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88780

Lab Sample ID: 140-37232-4 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Date Analyzed: 07/16/24 06:00 Lab File ID: 140-37232-a-4-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.85	Baseline	V4XA	07/16/24 21:45
PCB-8	16.88	Split Peak	V4XA	07/16/24 21:45
PCB-18	19.18	Baseline	V4XA	07/16/24 21:48
PCB-15L	20.04	Baseline	V4XA	07/16/24 21:45
PCB-52	24.75	Split Peak	V4XA	07/16/24 21:50
PCB-44	25.76	Baseline	V4XA	07/16/24 21:50
PCB-66	29.83	Baseline	V4XA	07/16/24 21:52
PCB-101	31.55	Split Peak	V4XA	07/16/24 22:02
PCB-77	34.17	Baseline	V4XA	07/16/24 22:01
PCB-156	43.68	Baseline	V4XA	07/16/24 22:04
PCB-157	43.68	Baseline	V4XA	07/16/24 22:04
PCB-180	45.13	Baseline	V4XA	07/16/24 22:05
PCB-170	46.36	Split Peak	V4XA	07/16/24 22:06

Lab Sample ID: 140-37232-5 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

Date Analyzed: 07/16/24 07:01 Lab File ID: 140-37232-a-5-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.86	Split Peak	V4XA	07/16/24 22:07
PCB-8	16.88	Split Peak	V4XA	07/16/24 22:07
PCB-18	19.21	Baseline	V4XA	07/16/24 22:10
PCB-15L	20.07	Split Peak	V4XA	07/16/24 22:07
PCB-52	24.76	Baseline	V4XA	07/16/24 23:33
PCB-44	25.77	Baseline	V4XA	07/16/24 23:33
PCB-128	40.91	Baseline	V4XA	07/16/24 23:42
PCB-170	46.43	Baseline	V4XA	07/16/24 23:43

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88780

Lab Sample ID: 140-37232-6 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

Date Analyzed: 07/16/24 08:02 Lab File ID: 140-37232-a-6-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-169		Invalid Compound ID	V4XA	07/17/24 00:19
PCB-8L	16.87	Peak assignment corrected	V4XA	07/17/24 00:06
PCB-8	16.88	Split Peak	V4XA	07/17/24 00:07
PCB-18	19.22	Baseline	V4XA	07/17/24 00:08
PCB-52	24.77	Split Peak	V4XA	07/17/24 00:11
PCB-44	25.79	Split Peak	V4XA	07/17/24 00:11
PCB-77	34.20	Baseline	V4XA	07/17/24 00:15
PCB-128	40.93	Baseline	V4XA	07/17/24 00:19
PCB-180	45.12	Baseline	V4XA	07/17/24 00:19
PCB-170	46.38	Baseline	V4XA	07/17/24 00:20

Lab Sample ID: 140-37232-7 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Date Analyzed: 07/16/24 09:03 Lab File ID: 140-37232-a-7-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.89	Baseline	V4XA	07/17/24 01:02
PCB-8	16.92	Baseline	V4XA	07/17/24 01:03
PCB-18	19.26	Split Peak	V4XA	07/17/24 01:04
PCB-15L	20.11	Baseline	V4XA	07/17/24 01:02
PCB-54L	20.40	Split Peak	V4XA	07/17/24 01:07
PCB-52	24.79	Split Peak	V4XA	07/17/24 01:08
PCB-44	25.81	Split Peak	V4XA	07/17/24 01:08
PCB-66	29.86	Split Peak	V4XA	07/17/24 01:09
PCB-101	31.56	Split Peak	V4XA	07/17/24 01:10
PCB-77	34.18	Baseline	V4XA	07/17/24 01:09
PCB-156	43.78	Baseline	V4XA	07/17/24 01:12
PCB-157	43.78	Baseline	V4XA	07/17/24 01:12
PCB-209	55.42	Baseline	V4XA	07/17/24 01:13

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Analysis Batch Number: 88780

Lab Sample ID: 140-37232-8 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Date Analyzed: 07/16/24 10:05 Lab File ID: 140-37232-a-8-d.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-206		Invalid Compound ID	V4XA	07/17/24 01:57
PCB-8L	16.86	Split Peak	V4XA	07/17/24 01:40
PCB-8	16.89	Baseline	V4XA	07/17/24 01:40
PCB-18	19.20	Baseline	V4XA	07/17/24 01:41
PCB-52	24.75	Split Peak	V4XA	07/17/24 01:43
PCB-44	25.76	Baseline	V4XA	07/17/24 01:43
PCB-66	29.80	Split Peak	V4XA	07/17/24 01:53
PCB-101	31.55	Baseline	V4XA	07/17/24 01:55
PCB-118	36.51	Baseline	V4XA	07/17/24 01:55
PCB-105	37.68	Baseline	V4XA	07/17/24 01:55
PCB-153	38.31	Baseline	V4XA	07/17/24 01:56

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/1 Client Sample ID: _____

Date Analyzed: 06/19/24 16:34 Lab File ID: d3240619ic1.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/19/24 18:15
13C12-Benzo (ghi) perylene	58.47	Incomplete Integration	F9EE	06/19/24 18:14
Benzo [g,h,i] perylene	58.49	Incomplete Integration	F9EE	06/19/24 18:14

Lab Sample ID: IC 140-87843/2 Client Sample ID: _____

Date Analyzed: 06/19/24 17:38 Lab File ID: d3240619ic2.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno (1,2,3-cd) pyrene	58.03	Incomplete Integration	F9EE	06/19/24 18:48
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/19/24 18:49
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/19/24 18:49
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/19/24 18:49

Lab Sample ID: IC 140-87843/3 Client Sample ID: _____

Date Analyzed: 06/19/24 18:42 Lab File ID: d3240619ic3.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:35
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/20/24 09:35

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/4 Client Sample ID: _____

Date Analyzed: 06/19/24 19:47 Lab File ID: d3240619ic4.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno(1,2,3-cd)pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:35
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:35
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/5 Client Sample ID: _____

Date Analyzed: 06/19/24 20:51 Lab File ID: d3240619ic5.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:36
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/6 Client Sample ID: _____

Date Analyzed: 06/19/24 21:56 Lab File ID: d3240619ic6.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.08	Incomplete Integration	F9EE	06/20/24 09:37
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:37
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/7 Client Sample ID: _____

Date Analyzed: 06/19/24 23:00 Lab File ID: d3240619ic7.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno(1,2,3-cd)pyrene	58.02	Incomplete Integration	F9EE	06/20/24 09:37
13C6-Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo(ghi)perylene	58.49	Incomplete Integration	F9EE	06/20/24 09:38
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:38

Lab Sample ID: IC 140-87843/8 Client Sample ID: _____

Date Analyzed: 06/20/24 00:04 Lab File ID: d3240619ic8.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:39

Lab Sample ID: IC 140-87843/9 Client Sample ID: _____

Date Analyzed: 06/20/24 01:09 Lab File ID: d3240619ic9.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:39
13C6-Dibenz(a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
Dibenz(a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 87843
 Lab Sample ID: ICV 140-87843/10 Client Sample ID: _____
 Date Analyzed: 06/20/24 02:46 Lab File ID: d3240619icv.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48
Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 88920
 Lab Sample ID: LCS 140-88192/19-B Client Sample ID: _____
 Date Analyzed: 07/18/24 12:24 Lab File ID: lcs140-8819219-b.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	57.91	Split Peak	Q9DB	07/18/24 16:25

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 88945

Lab Sample ID: MB 140-88192/21-B Client Sample ID: _____

Date Analyzed: 07/19/24 00:57 Lab File ID: mb140-8819221-b_20240719 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	25.26	Incomplete Integration	TT6I	07/20/24 10:14
Benzo[a]anthracene	45.87	Incomplete Integration	TT6I	07/20/24 10:08
Benzo[k]fluoranthene	54.63	Incomplete Integration	TT6I	07/20/24 10:08
Perylene	55.86	Incomplete Integration	TT6I	07/20/24 10:07
Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 10:08
13C12-Benzo (ghi) perylene	58.38	Incomplete Integration	TT6I	07/20/24 10:08
Benzo[g,h,i]perylene	58.38	Incomplete Integration	TT6I	07/20/24 10:07

Lab Sample ID: 140-37232-1 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED

Date Analyzed: 07/19/24 02:02 Lab File ID: 140-37232-a-1-c.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.62	Incomplete Integration	TT6I	07/20/24 10:17
Fluorene	19.58	Incomplete Integration	TT6I	07/20/24 10:18
Fluoranthene	33.65	Incomplete Integration	TT6I	07/20/24 10:17
13C6-Chrysene	46.12	Incomplete Integration	TT6I	07/20/24 10:15
Chrysene	46.12	Incomplete Integration	TT6I	07/20/24 10:17
Benzo[e]pyrene	55.47	Incomplete Integration	TT6I	07/20/24 10:15
Benzo[a]pyrene	55.59	Incomplete Integration	TT6I	07/20/24 10:17
Perylene-d12	55.78	Incomplete Integration	TT6I	07/20/24 10:15
Perylene	55.84	Incomplete Integration	TT6I	07/20/24 10:16
Indeno[1,2,3-cd]pyrene	57.93	Incomplete Integration	TT6I	07/20/24 10:15
13C6-Dibenz (a,h) anthracene	58.00	Incomplete Integration	TT6I	07/20/24 10:15
Dibenz (a,h) anthracene	58.00	Incomplete Integration	TT6I	07/20/24 10:17
13C12-Benzo (ghi) perylene	58.39	Incomplete Integration	TT6I	07/20/24 10:17
Benzo[g,h,i]perylene	58.39	Incomplete Integration	TT6I	07/20/24 10:17

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH

Analysis Batch Number: 88978

Lab Sample ID: 140-37232-14

Client Sample ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER

Date Analyzed: 07/19/24 15:05

Lab File ID: 140-37232-b-14-c_2024071 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorene	19.61	Incomplete Integration	TT6I	07/20/24 08:58
13C6-Phenanthrene	24.97	Incomplete Integration	TT6I	07/20/24 08:59
Phenanthrene	24.97	Incomplete Integration	TT6I	07/20/24 08:57
Anthracene	25.19	Incomplete Integration	TT6I	07/20/24 08:59
13C6-Anthracene	25.22	Incomplete Integration	TT6I	07/20/24 08:59
Benzo[b]fluoranthene	54.51	Incomplete Integration	TT6I	07/20/24 08:58
Benzo[k]fluoranthene	54.64	Incomplete Integration	TT6I	07/20/24 08:58
Benzo[a]pyrene	55.62	Incomplete Integration	TT6I	07/20/24 08:58
Perylene	55.85	Incomplete Integration	TT6I	07/20/24 08:57
Indeno[1,2,3-cd]pyrene	57.92	Incomplete Integration	TT6I	07/20/24 08:56
Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 08:57
Benzo[g,h,i]perylene	58.40	Incomplete Integration	TT6I	07/20/24 08:58

Lab Sample ID: 140-37232-3

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

Date Analyzed: 07/19/24 19:27

Lab File ID: 140-37232-a-3-c.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[a]anthracene	45.90	Incomplete Integration	TT6I	07/20/24 09:25
13C6-Chrysene	46.15	Incomplete Integration	TT6I	07/20/24 09:23
13C6-Benzo(k)fluoranthene	54.64	Incomplete Integration	TT6I	07/20/24 09:24
Benzo[k]fluoranthene	54.64	Incomplete Integration	TT6I	07/20/24 09:25
Benzo[a]pyrene	55.62	Incomplete Integration	TT6I	07/20/24 09:25
Perylene	55.85	Incomplete Integration	TT6I	07/20/24 09:24
Indeno[1,2,3-cd]pyrene	57.94	Incomplete Integration	TT6I	07/20/24 09:23
13C6-Dibenz (a,h) anthracene	58.01	Incomplete Integration	TT6I	07/20/24 09:24
Benzo[g,h,i]perylene	58.40	Incomplete Integration	TT6I	07/20/24 09:25

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Analysis Batch Number: 88978

Lab Sample ID: 140-37232-4 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED

Date Analyzed: 07/19/24 20:31 Lab File ID: 140-37232-a-4-c.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	11.45	Incomplete Integration	TT6I	07/20/24 09:27
Acenaphthylene	16.64	Incomplete Integration	TT6I	07/20/24 09:28
Anthracene	25.28	Incomplete Integration	TT6I	07/20/24 09:26
13C6-Chrysene	46.16	Incomplete Integration	TT6I	07/20/24 09:26
Benzo[k]fluoranthene	54.65	Incomplete Integration	TT6I	07/20/24 09:28
Perylene-d12	55.79	Incomplete Integration	TT6I	07/20/24 09:26
Perylene	55.86	Incomplete Integration	TT6I	07/20/24 09:27
Indeno[1,2,3-cd]pyrene	57.93	Incomplete Integration	TT6I	07/20/24 09:26
13C6-Dibenz (a,h) anthracene	58.00	Incomplete Integration	TT6I	07/20/24 09:26
Dibenz (a,h) anthracene	58.01	Incomplete Integration	TT6I	07/20/24 09:27
13C12-Benzo (ghi) perylene	58.39	Incomplete Integration	TT6I	07/20/24 09:28
Benzo[g,h,i]perylene	58.40	Incomplete Integration	TT6I	07/20/24 09:27

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D3PAH Analysis Batch Number: 88999
 Lab Sample ID: CCV 140-88999/1 Client Sample ID: _____
 Date Analyzed: 07/20/24 02:03 Lab File ID: d3240720c1a.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	57.90	Split Peak	V4XA	07/20/24 03:11

Lab Sample ID: 140-37232-2 Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
 Date Analyzed: 07/20/24 05:09 Lab File ID: 140-37232-a-2-c.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	11.44	Incomplete Integration	TT6I	07/20/24 11:23
2-Methylnaphthalene	13.78	Incomplete Integration	TT6I	07/20/24 11:23
Fluorene	19.58	Incomplete Integration	TT6I	07/20/24 11:24
Benzo[a]anthracene	45.86	Incomplete Integration	TT6I	07/20/24 11:24
13C6-Chrysene	46.13	Incomplete Integration	TT6I	07/20/24 11:23
Chrysene	46.13	Incomplete Integration	TT6I	07/20/24 11:24
13C6-Benzo(k)fluoranthene	54.62	Incomplete Integration	TT6I	07/20/24 11:23
Benzo[k]fluoranthene	54.62	Incomplete Integration	TT6I	07/20/24 11:24
Benzo[a]pyrene	55.60	Incomplete Integration	TT6I	07/20/24 11:24
Perylene-d12	55.79	Incomplete Integration	TT6I	07/20/24 11:23
Perylene	55.85	Incomplete Integration	TT6I	07/20/24 11:24
13C6-Dibenz(a,h)anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:23
Dibenz(a,h)anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:24
13C12-Benzo(ghi)perylene	58.38	Incomplete Integration	TT6I	07/20/24 11:24

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH

Analysis Batch Number: 88999

Lab Sample ID: 140-37232-5

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

Date Analyzed: 07/20/24 06:13

Lab File ID: 140-37232-a-5-c.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	46.11	Incomplete Integration	TT6I	07/20/24 11:26
Benzo[k]fluoranthene	54.62	Incomplete Integration	TT6I	07/20/24 11:27
Perylene-d12	55.77	Incomplete Integration	TT6I	07/20/24 11:25
Perylene	55.83	Incomplete Integration	TT6I	07/20/24 11:26
13C6-Indeno (1,2,3-cd)pyrene	57.90	Incomplete Integration	TT6I	07/20/24 11:25
13C6-Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:25
Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:26
Benzo[g,h,i]perylene	58.38	Incomplete Integration	TT6I	07/20/24 11:26

Lab Sample ID: 140-37232-6

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

Date Analyzed: 07/20/24 07:18

Lab File ID: 140-37232-a-6-c.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Naphthalene	11.65	Incomplete Integration	TT6I	07/20/24 11:27
Naphthalene	11.66	Incomplete Integration	TT6I	07/20/24 11:28
Benzo[k]fluoranthene	54.62	Incomplete Integration	TT6I	07/20/24 11:29
Benzo[a]pyrene	55.60	Incomplete Integration	TT6I	07/20/24 11:28
Perylene	55.83	Incomplete Integration	TT6I	07/20/24 11:28
13C6-Indeno (1,2,3-cd)pyrene	57.90	Incomplete Integration	TT6I	07/20/24 11:28
13C6-Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:27
Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/20/24 11:28

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.:

Instrument ID: D3PAH

Analysis Batch Number: 88999

Lab Sample ID: 140-37232-7

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

Date Analyzed: 07/20/24 08:22

Lab File ID: 140-37232-a-7-c.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	11.45	Incomplete Integration	TT6I	07/20/24 11:30
Acenaphthylene	16.63	Incomplete Integration	TT6I	07/20/24 11:31
Fluorene	19.60	Incomplete Integration	TT6I	07/20/24 11:31
Phenanthrene	24.95	Incomplete Integration	TT6I	07/20/24 11:30
Anthracene	25.27	Incomplete Integration	TT6I	07/20/24 11:29
13C6-Chrysene	46.14	Incomplete Integration	TT6I	07/20/24 11:29
13C6-Benzo (k) fluoranthene	54.63	Incomplete Integration	TT6I	07/20/24 11:30
Benzo [k] fluoranthene	54.64	Incomplete Integration	TT6I	07/20/24 11:31
Benzo [e] pyrene	55.47	Incomplete Integration	TT6I	07/20/24 11:29
13C4-Benzo (a) pyrene	55.62	Incomplete Integration	TT6I	07/20/24 11:31
Benzo [a] pyrene	55.62	Incomplete Integration	TT6I	07/20/24 11:31
Perylene-d12	55.79	Incomplete Integration	TT6I	07/20/24 11:29
Perylene	55.86	Incomplete Integration	TT6I	07/20/24 11:30
Indeno [1,2,3-cd] pyrene	57.93	Incomplete Integration	TT6I	07/20/24 11:29
13C6-Dibenz (a,h) anthracene	58.00	Incomplete Integration	TT6I	07/20/24 11:29
Benzo [g,h,i] perylene	58.40	Incomplete Integration	TT6I	07/20/24 11:30

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-37232-1

SDG No.:

Instrument ID: D3PAH

Analysis Batch Number: 88999

Lab Sample ID: 140-37232-8

Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

Date Analyzed: 07/20/24 09:27

Lab File ID: 140-37232-a-8-c.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Naphthalene	11.66	Incomplete Integration	TT6I	07/20/24 11:31
Naphthalene	11.67	Incomplete Integration	TT6I	07/20/24 11:32
Acenaphthylene	16.63	Incomplete Integration	TT6I	07/20/24 11:33
Fluorene	19.57	Incomplete Integration	TT6I	07/20/24 11:33
Pyrene	35.32	Incomplete Integration	TT6I	07/20/24 11:33
13C6-Benzo (k) fluoranthene	54.59	Incomplete Integration	TT6I	07/20/24 11:32
Benzo[e]pyrene	55.43	Incomplete Integration	TT6I	07/20/24 11:32
Perylene	55.82	Incomplete Integration	TT6I	07/20/24 11:32
13C6-Indeno (1,2,3-cd) pyrene	57.89	Incomplete Integration	TT6I	07/20/24 11:32
13C6-Dibenz (a,h) anthracene	57.96	Incomplete Integration	TT6I	07/20/24 11:32
Dibenz (a,h) anthracene	57.98	Incomplete Integration	TT6I	07/20/24 11:33
13C12-Benzo (ghi) perylene	58.35	Incomplete Integration	TT6I	07/20/24 11:33
Benzo[g,h,i]perylene	58.36	Incomplete Integration	TT6I	07/20/24 11:33

Method 23 Revised (PAHs)

Method 23 Revised (PAHs)

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C6N #	C62MN #	C6Acy #	C6Ace #	C6Fle #	C6Ph #	AN #	C6Fla #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	56	56	81	74	93	87	92	94
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	64	68	91	81	89	69	83	91
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	62	63	90	84	89	81	84	92
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	41	39	61	57	64	61	63	77
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	48	52	70	65	73	63	71	79
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	16 *5-	56	78	75	81	78	91	84
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	59	61	86	79	87	71	81	84
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	18 *5-	50	73	69	87	79	95	79
A-2232,A-2233 M23 MEDIA CHECK XAD, FILTER	140-37232-14	65	63	85	78	90	29	33	59
	MB 140-88192/21-B	72	67	93	84	96	79	92	93
	LCS 140-88192/19-B	82	70	91	84	91	68	78	91
	LCSD 140-88192/20-B	83	73	90	84	91	70	80	91

QC LIMITS

C6N = 13C6-Naphthalene	20-130
C62MN = 13C6-2-Methylnaphthalene	20-130
C6Acy = 13C6-Acenaphthylene	20-130
C6Ace = 13C6-Acenaphthene	20-130
C6Fle = 13C6-Fluorene	20-130
C6Ph = 13C6-Phenanthrene	20-130
AN = 13C6-Anthracene	20-130
C6Fla = 13C6-Fluoranthrene	20-130

Column to be used to flag recovery values

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C3Pyr #	C6BaA #	C6Chr #	C6BbF #	C6BkF #	C4BeP #	C4BaP #	PRY #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	89	60	64	82	85	78	87	85
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	84	65	69	76	80	77	87	86
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	89	60	63	67	83	63	85	85
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	74	55	63	67	76	73	77	83
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	72	61	63	69	75	69	76	74
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	76	69	71	82	81	77	82	79
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	80	71	72	80	89	80	92	91
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	74	69	67	82	81	80	84	85
A-2232,A-2233 M23 MEDIA CHECK XAD, FILTER	140-37232-14	61	40	40	59	57	58	58	61
	MB 140-88192/21-B	94	78	76	96	94	87	89	92
	LCS 140-88192/19-B	93	94	91	103	94	92	95	95
	LCSD 140-88192/20-B	91	91	88	99	92	92	93	96

QC LIMITS

C3Pyr = 13C3-Pyrene	20-130
C6BaA = 13C6-Benzo (a) anthracene	20-130
C6Chr = 13C6-Chrysene	20-130
C6BbF = 13C6-Benzo (b) fluoranthene	20-130
C6BkF = 13C6-Benzo (k) fluoranthene	20-130
C4BeP = 13C4-Benzo (e) pyrene	20-130
C4BaP = 13C4-Benzo (a) pyrene	20-130
PRY = Perylene-d12	20-130

Column to be used to flag recovery values

FORM II
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	IND #	DBA #	BghiP #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	72	81	70
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	91	96	87
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	81	89	80
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	74	81	73
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	87	88	77
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	95	93	74
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	94	109	95
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	99	93	83
A-2232,A-2233 M23 MEDIA CHECK XAD, FILTER	140-37232-14	50	48	46
	MB 140-88192/21-B	99	99	86
	LCS 140-88192/19-B	103	90	82
	LCSD 140-88192/20-B	104	98	81

IND = 13C6-Indeno (1,2,3-cd)pyrene	QC LIMITS
DBA = 13C6-Dibenz (a,h) anthracene	20-130
BghiP = 13C12-Benzo (ghi) perylene	20-130
	20-130

Column to be used to flag recovery values

FORM III
HI-RES PAHS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcs140-8819219-b.d
 Lab ID: LCS 140-88192/19-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
Naphthalene	150	1224	816	60-140	*+
2-Methylnaphthalene	150	163.8	109	60-140	
Acenaphthylene	150	125.0	83	60-140	
Acenaphthene	150	141.4	94	60-140	
Fluorene	150	147.0	98	60-140	
Phenanthrene	150	164.4	110	60-140	
Anthracene	150	131.1	87	60-140	
Fluoranthene	150	159.9	107	60-140	
Pyrene	150	202.9	135	60-140	
Benzo[a]anthracene	150	162.5	108	60-140	
Chrysene	150	160.9	107	60-140	
Benzo[b]fluoranthene	150	143.0	95	60-140	
Benzo[k]fluoranthene	150	132.3	88	60-140	
Benzo[e]pyrene	150	146.0	97	60-140	
Benzo[a]pyrene	150	129.5	86	60-140	
Perylene	150	137.5	92	60-140	
Indeno[1,2,3-cd]pyrene	150	148.1	99	60-140	
Dibenz(a,h)anthracene	150	146.9	98	60-140	
Benzo[g,h,i]perylene	150	145.8	97	60-140	
13C6-Naphthalene	150	123.3	82	20-130	
13C6-2-Methylnaphthalene	150	105.5	70	20-130	
13C6-Acenaphthylene	150	136.7	91	20-130	
13C6-Acenaphthene	150	126.4	84	20-130	
13C6-Fluorene	150	135.8	91	20-130	
13C6-Fluoranthrene	150	137.0	91	20-130	
13C3-Pyrene	150	139.3	93	20-130	
13C6-Benzo(a)anthracene	150	141.7	94	20-130	
13C6-Chrysene	150	136.8	91	20-130	
13C6-Benzo(b)fluoranthene	150	155.1	103	20-130	
13C6-Benzo(k)fluoranthene	150	141.5	94	20-130	
13C4-Benzo(e)pyrene	150	138.6	92	20-130	
13C4-Benzo(a)pyrene	150	142.9	95	20-130	
Perylene-d12	150	142.5	95	20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	154.1	103	20-130	
13C6-Dibenz(a,h)anthracene	150	135.3	90	20-130	
13C12-Benzo(ghi)perylene	150	123.4	82	20-130	
13C6-Anthracene	150	116.6	78	20-130	
13C6-Phenanthrene	150	101.5	68	20-130	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PAHS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcsd140-8819220-b.d
 Lab ID: LCSD 140-88192/20-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Naphthalene	150	1037	691	17	25	60-140	*+
2-Methylnaphthalene	150	153.8	103	6	25	60-140	
Acenaphthylene	150	121.9	81	2	25	60-140	
Acenaphthene	150	135.5	90	4	25	60-140	
Fluorene	150	140.8	94	4	25	60-140	
Phenanthrene	150	158.6	106	4	25	60-140	
Anthracene	150	126.8	85	3	25	60-140	
Fluoranthene	150	153.2	102	4	25	60-140	
Pyrene	150	190.9	127	6	25	60-140	
Benzo[a]anthracene	150	160.0	107	2	25	60-140	
Chrysene	150	161.0	107	0	25	60-140	
Benzo[b]fluoranthene	150	142.3	95	0	25	60-140	
Benzo[k]fluoranthene	150	138.9	93	5	25	60-140	
Benzo[e]pyrene	150	144.6	96	1	25	60-140	
Benzo[a]pyrene	150	129.1	86	0	25	60-140	
Perylene	150	135.0	90	2	25	60-140	
Indeno[1,2,3-cd]pyrene	150	144.5	96	2	25	60-140	
Dibenz(a,h)anthracene	150	147.5	98	0	25	60-140	
Benzo[g,h,i]perylene	150	146.7	98	1	25	60-140	
13C6-Naphthalene	150	124.3	83			20-130	
13C6-2-Methylnaphthalene	150	108.8	73			20-130	
13C6-Acenaphthylene	150	135.7	90			20-130	
13C6-Acenaphthene	150	126.5	84			20-130	
13C6-Fluorene	150	136.3	91			20-130	
13C6-Fluoranthrene	150	137.1	91			20-130	
13C3-Pyrene	150	136.1	91			20-130	
13C6-Benzo(a)anthracene	150	137.1	91			20-130	
13C6-Chrysene	150	132.2	88			20-130	
13C6-Benzo(b)fluoranthene	150	148.9	99			20-130	
13C6-Benzo(k)fluoranthene	150	138.4	92			20-130	
13C4-Benzo(e)pyrene	150	137.3	92			20-130	
13C4-Benzo(a)pyrene	150	139.1	93			20-130	
Perylene-d12	150	144.1	96			20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	155.3	104			20-130	
13C6-Dibenz(a,h)anthracene	150	146.6	98			20-130	
13C12-Benzo(ghi)perylene	150	121.7	81			20-130	
13C6-Anthracene	150	119.3	80			20-130	
13C6-Phenanthrene	150	105.6	70			20-130	

Column to be used to flag recovery and RPD values

FORM IV
HI-RES PAHS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab File ID: mb140-8819221-b_2024071900560 Lab Sample ID: MB 140-88192/21-B
Matrix: Air Date Extracted: 06/27/2024 14:06
Instrument ID: D3PAH Date Analyzed: 07/19/2024 00:57
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-88192/19-B	lcs140-8819 219-b.d	07/18/2024 12:24
	LCSD 140-88192/20-B	lcsd140-881 9220-b.d	07/18/2024 13:28
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	140-37232-a -1-c.d	07/19/2024 02:02
A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	140-37232-14	140-37232-b -14-c_20240 719150409.d	07/19/2024 15:05
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	140-37232-a -3-c.d	07/19/2024 19:27
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	140-37232-a -4-c.d	07/19/2024 20:31
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	140-37232-a -2-c.d	07/20/2024 05:09
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	140-37232-a -5-c.d	07/20/2024 06:13
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	140-37232-a -6-c.d	07/20/2024 07:18
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	140-37232-a -7-c.d	07/20/2024 08:22
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	140-37232-a -8-c.d	07/20/2024 09:27

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 1 - COMBINED</u>	Lab Sample ID: <u>140-37232-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 15:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 02:02</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	874	B *+	750	750	1.11
91-57-6	2-Methylnaphthalene	438	J B	750	750	0.530
208-96-8	Acenaphthylene	40.1	B	30.0	30.0	0.295
83-32-9	Acenaphthene	119	J B	300	300	0.625
86-73-7	Fluorene	261	J B	300	300	0.373
85-01-8	Phenanthrene	887	B	60.0	60.0	0.639
120-12-7	Anthracene	104	J B	300	300	0.624
206-44-0	Fluoranthene	125	B	60.0	60.0	0.325
129-00-0	Pyrene	132	B	60.0	60.0	0.325
56-55-3	Benzo[a]anthracene	3.94	J B	60.0	60.0	0.348
218-01-9	Chrysene	22.1	J B	60.0	60.0	0.346
205-99-2	Benzo[b]fluoranthene	16.2	J B	300	300	0.0928
207-08-9	Benzo[k]fluoranthene	5.79	J B	60.0	60.0	0.0943
192-97-2	Benzo[e]pyrene	211	B	60.0	60.0	0.0812
50-32-8	Benzo[a]pyrene	9.68	J B	30.0	30.0	0.0778
198-55-0	Perylene	4.81	J B	30.0	30.0	0.0726
193-39-5	Indeno[1,2,3-cd]pyrene	10.1	J B	30.0	30.0	0.0822
53-70-3	Dibenz(a,h)anthracene	4.14	J B	60.0	60.0	0.0489
191-24-2	Benzo[g,h,i]perylene	20.8	J B	60.0	60.0	0.0631

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 1 - COMBINED</u>	Lab Sample ID: <u>140-37232-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 15:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 02:02</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	56		20-130
STL03357	13C6-2-Methylnaphthalene	56		20-130
189811-56-1	13C6-Acenaphthylene	81		20-130
189811-57-2	13C6-Acenaphthene	74		20-130
STL00616	13C6-Fluorene	93		20-130
1397194-60-3	13C6-Fluoranthrene	94		20-130
1397214-90-2	13C3-Pyrene	89		20-130
917378-11-1	13C6-Benzo (a) anthracene	60		20-130
1397177-72-8	13C6-Chrysene	64		20-130
STL03358	13C6-Benzo (b) fluoranthene	82		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	85		20-130
STL03382	13C4-Benzo (e) pyrene	78		20-130
STL03359	13C4-Benzo (a) pyrene	87		20-130
1520-96-3	Perylene-d12	85		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	72		20-130
STL03360	13C6-Dibenz (a,h) anthracene	81		20-130
350820-11-0	13C12-Benzo (ghi) perylene	70		20-130
189811-60-7	13C6-Anthracene	92		20-130
1189955-53-0	13C6-Phenanthrene	87		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Lims ID: 140-37232-A-1-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 02:02:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033572-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 10:19:10 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:19:10

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	2167555		3.3746	5.634	5.634	0.002270	0.002270	56.34	
Naphthalene	11:24	16281309		1.2893	58.3	58.3	0.0739	0.0739		
D 13C6-2-Methylnaphthalene	13:46	1025155		1.6031	5.609	5.609	0.000736	0.000736	56.09	
2-Methylnaphthalene	13:47	3824201		1.2786	29.2	29.2	0.0353	0.0353		
D 13C6-Acenaphthylene	16:37	1518018		1.6520	8.059	8.059	0.001381	0.001381	80.59	
Acenaphthylene	16:38	525553		2.3661	2.674	2.674	0.0197	0.0197		M
* Acenaphthene-d10	17:11	570067		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:18	830613		0.9792	7.440	7.440	0.003268	0.003268	74.40	
Acenaphthene	17:19	836406		1.2697	7.931	7.931	0.0417	0.0417		
D 13C6-Fluorene	19:35	939450		0.8898	9.260	9.260	0.008548	0.008548	92.60	
Fluorene	19:35	2045176		1.2532	17.4	17.4	0.0249	0.0249		M
D 13C6-Phenanthrene	24:55	1525686		0.5724	8.705	8.705	0.001171	0.001171	87.05	
Phenanthrene	24:56	9959011		1.1044	59.1	59.1	0.0426	0.0426		
\$ Anthracin-d10	25:08	106690		0.4257	0.8185	0.8185	0.000675	0.000675	81.85	
D 13C6-Anthracene	25:16	1277002		0.4523	9.220	9.220	0.001481	0.001481	92.20	
Anthracene	25:16	1200596		1.3586	6.920	6.920	0.0416	0.0416		
D 13C6-Fluoranthrene	33:39	3433747		1.1994	9.350	9.350	0.0200	0.0200	93.50	
Fluoranthene	33:39	3307204		1.1513	8.366	8.366	0.0217	0.0217		M
* Pyrene-d10	35:12	1530939		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:20	3699510		1.3512	8.942	8.942	0.0112	0.0112	89.42	
Pyrene	35:20	3457593		1.0652	8.774	8.774	0.0217	0.0217		
\$ 13C6-Benzo(c)fluorene	39:03	1510656		0.5136	9.606	9.606	0.005666	0.005666	96.06	M
D 13C6-Benzo(a)anthracene	45:52	2820150		1.5189	6.030	6.030	0.005880	0.005880	60.30	
Benzo[a]anthracene	45:53	72082		0.9739	0.2625	0.2625	0.0232	0.0232		
D 13C6-Chrysene	46:08	3191349		1.6287	6.364	6.364	0.005484	0.005484	63.64	M
Chrysene	46:08	460642		0.9815	1.471	1.471	0.0231	0.0231		M
D 13C6-Benzo(b)fluoranthene	54:30	3694168		1.4621	8.206	8.206	0.002130	0.002130	82.06	
Benzo[b]fluoranthene	54:30	449554		1.1249	1.082	1.082	0.006189	0.006189		
\$ 13C12-Benzo(j)fluoranthene	54:32	3365355		1.3558	8.061	8.061	0.0100	0.0100	80.61	
D 13C6-Benzo(k)fluoranthene	54:38	4568543		1.7507	8.475	8.475	0.001779	0.001779	84.75	
Benzo[k]fluoranthene	54:38	198868		1.1271	0.3862	0.3862	0.006284	0.006284		
* Benzo(e)pyrene-d12	55:24	1539567		5.7E+04	5.000	5.000				
Benzo[e]pyrene	55:29	5496131		1.0013	14.0	14.0	0.005415	0.005415		M
D 13C4-Benzo(e)pyrene	55:28	3907701		1.6368	7.753	7.753	0.003323	0.003323	77.53	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	4152571		1.5508	8.696	8.696	0.003507	0.003507	86.96	
Benzo[a]pyrene	55:36	298182		1.1130	0.6451	0.6451	0.005188	0.005188		Ma
D Perylene-d12	55:47	3118320		1.1917	8.498	8.498	0.0101	0.0101	84.98	M
Perylene	55:51	143117		1.4307	0.3208	0.3208	0.004841	0.004841		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	2278570		1.0218	7.242	7.242	0.006667	0.006667	72.42	
Indeno[1,2,3-cd]pyrene	57:56	173128		1.1249	0.6754	0.6754	0.005481	0.005481		M
D 13C6-Dibenz(a,h)anthracene	58:00	2618080		1.0553	8.057	8.057	0.003689	0.003689	80.57	M
Dibenz(a,h)anthracene	58:00	81808		1.1314	0.2762	0.2762	0.003261	0.003261		M
D 13C12-Benzo(ghi)perylene	58:24	2767190		1.2749	7.049	7.049	0.003745	0.003745	70.49	M
Benzo[g,h,i]perylene	58:24	492362		1.2838	1.386	1.386	0.004207	0.004207		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
 Lims ID: 140-37232-A-1-C
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
 Sample Type: Client
 Inject. Date: 19-Jul-2024 02:02:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Misc. Info.: 140-0033572-007
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jul-2024 10:19:10 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 10:19:10

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:25	-2	0.663	2167555	747083	117	292	6385		
Naphthalene											
128.0626	11:24	11:24	-2	1.000	16281309	5754012	2847	7117	2021		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	-2	0.801	1025155	463562	18	45	25753		
2-Methylnaphthalene											
142.0783	13:47	13:46	-1	1.001	3824201	1710122	838	2095	2041		
13C6-Acenaphthylene											
158.0828	16:37	16:36	-1	0.967	1518018	524980	35	87	14999		
Acenaphthylene											
152.0626	16:38	16:38	-1	1.000	525553	179074	547	1367	327		M
Acenaphthene-d10											
164.1404	17:11	17:13	-1		570067	190633	9	22	21181		M
13C6-Acenaphthene											
160.0984	17:18	17:18	-2	1.007	830613	293939	49	122	5999		
Acenaphthene											
154.0783	17:19	17:18	-1	1.001	836406	286730	622	1555	461		
13C6-Fluorene											
172.0984	19:35	19:34	-2	1.139	939450	278399	116	290	2400		
Fluorene											
166.0783	19:35	19:35	-1	1.001	2045176	594467	347	867	1713		M
13C6-Phenanthrene											
184.0984	24:55	24:56	-2	0.708	1525686	335138	14	35	23938		
Phenanthrene											
178.0783	24:56	24:55	-1	1.000	9959011	2107025	631	1577	3339		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:08	25:10	-2	0.714	106690	27593	6	15	4599		
13C6-Anthracene											
184.0984	25:16	25:15	-1	0.718	1277002	278940	14	35	19924		
Anthracene											
178.0783	25:16	25:16	-1	1.000	1200596	218072	631	1577	346		
13C6-Fluoranthrene											
208.0984	33:39	33:38	-1	0.956	3433747	614936	501	1252	1227		
Fluoranthene											
202.0783	33:39	33:39	-1	1.000	3307204	585372	614	1535	953		M
Pyrene-d10											
212.1404	35:12	35:13	-1		1530939	261164	67	167	3898		M
13C3-Pyrene											
205.0883	35:20	35:19	-1	1.004	3699510	665396	315	787	2112		
Pyrene											
202.0783	35:20	35:19	-1	1.000	3457593	631257	614	1535	1028		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	-1	0.705	1510656	254925	61	152	4179		M
13C6-Benzo(a)anthracene											
234.1140	45:52	45:49	-1	1.303	2820150	443000	312	780	1420		
Benzo[a]anthracene											
228.0939	45:53	45:52	0	1.000	72082	12211	400	1000	31		
13C6-Chrysene											
234.1140	46:08	46:08	0	1.311	3191349	441857	312	780	1416		M
Chrysene											
228.0939	46:08	46:08	-1	1.000	460642	52395	400	1000	131		M
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:29	0	0.984	3694168	919276	109	272	8434		
Benzo[b]fluoranthene											
252.0939	54:30	54:30	-1	1.000	449554	89404	256	640	349		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:32	0	0.984	3365355	743247	473	1182	1571		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:37	0	0.986	4568543	903583	109	272	8290		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	198868	36607	256	640	143		
Benzo(e)pyrene-d12											
264.1692	55:24	55:23	0		1539567	436670	421	1052	1037		
Benzo[e]pyrene											
252.0939	55:29	55:29	0	1.000	5496131	1592308	256	640	6220		M
13C4-Benzo(e)pyrene											
256.1073	55:28	55:27	-1	1.001	3907701	1180300	190	475	6212		M
13C4-Benzo(a)pyrene											
256.1073	55:37	55:35	0	1.004	4152571	1108354	190	475	5833		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											Ma
252.0939	55:36	55:36	-2	1.000	298182	58580	256	640	229		M
Perylene-d12											M
264.1692	55:47	55:47	-1	1.007	3118320	924118	421	1052	2195		M
Perylene											M
252.0939	55:51	55:51	-1	1.001	143117	30783	256	640	120		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	0	1.046	2278570	665005	238	595	2794		
Indeno[1,2,3-cd]pyrene											M
276.0939	57:56	57:56	1	1.000	173128	42649	164	410	260		M
13C6-Dibenz(a,h)anthracene											M
284.1296	58:00	58:00	1	1.047	2618080	588148	136	340	4325		M
Dibenz(a,h)anthracene											M
278.1096	58:00	58:00	1	1.000	81808	15190	87	217	175		M
13C12-Benzo(ghi)perylene											M
288.1342	58:24	58:24	0	1.054	2767190	759170	167	417	4546		M
Benzo[g,h,i]perylene											M
276.0939	58:24	58:24	-1	1.000	492362	119383	164	410	728		M

QC Flag Legend

Processing Flags

Review Flags

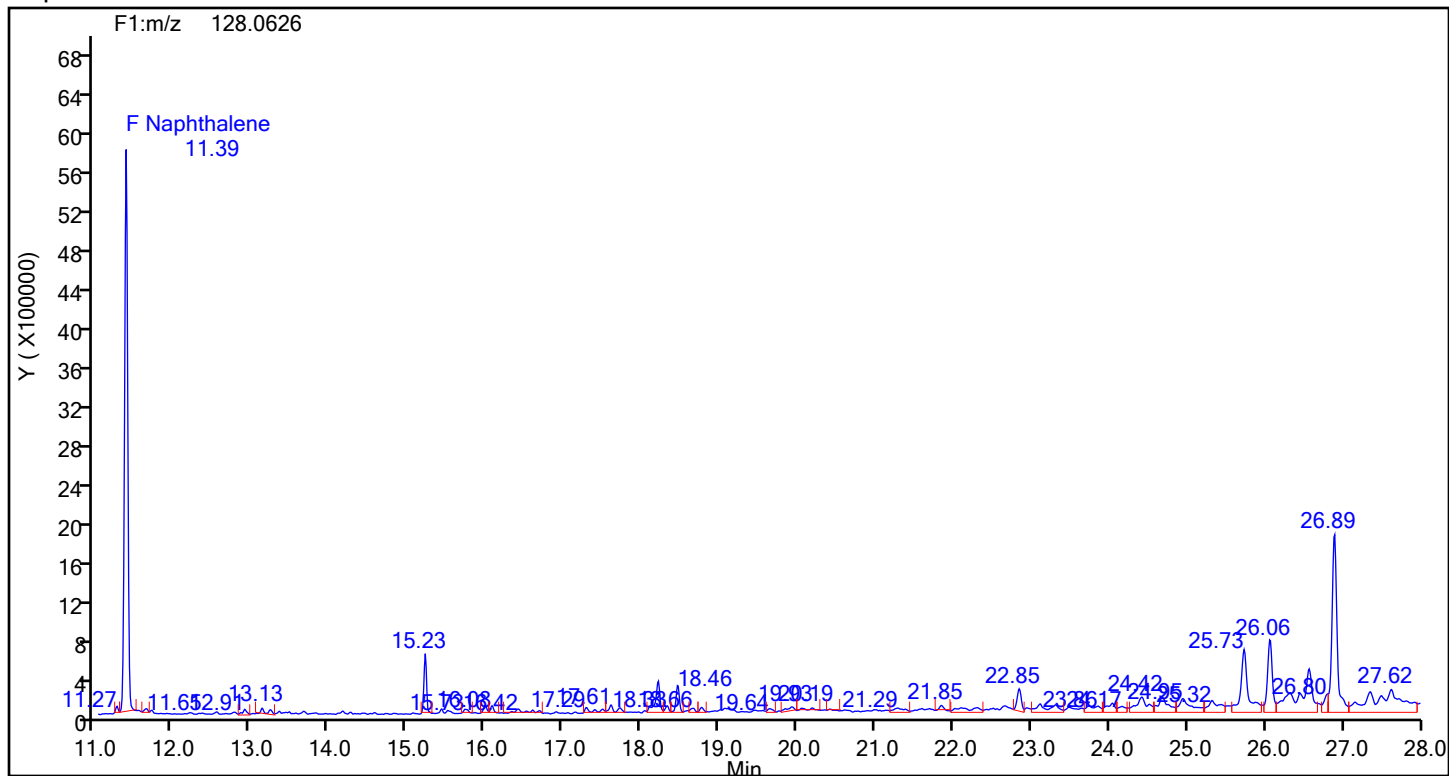
M - Manually Integrated

a - User Assigned ID

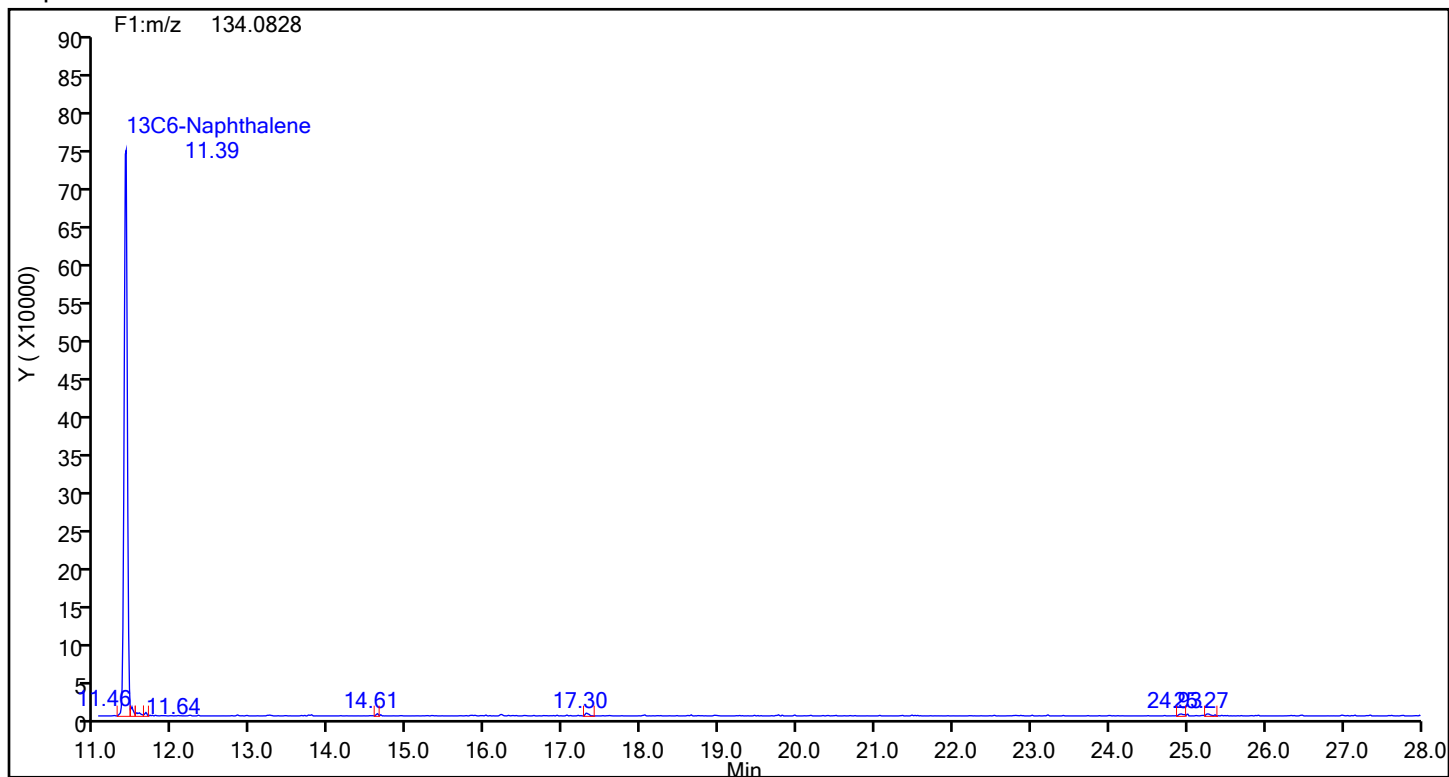
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



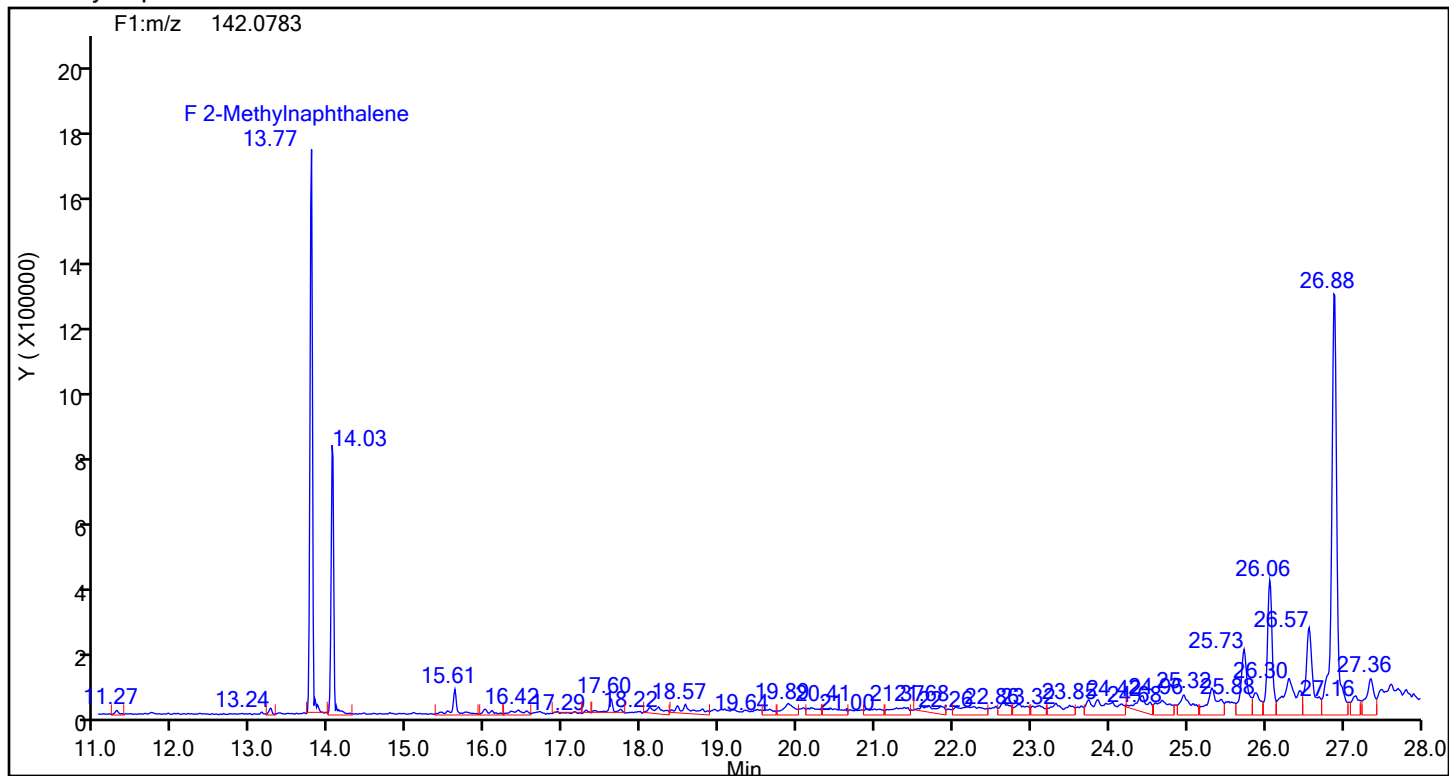
Naphthalene Standards



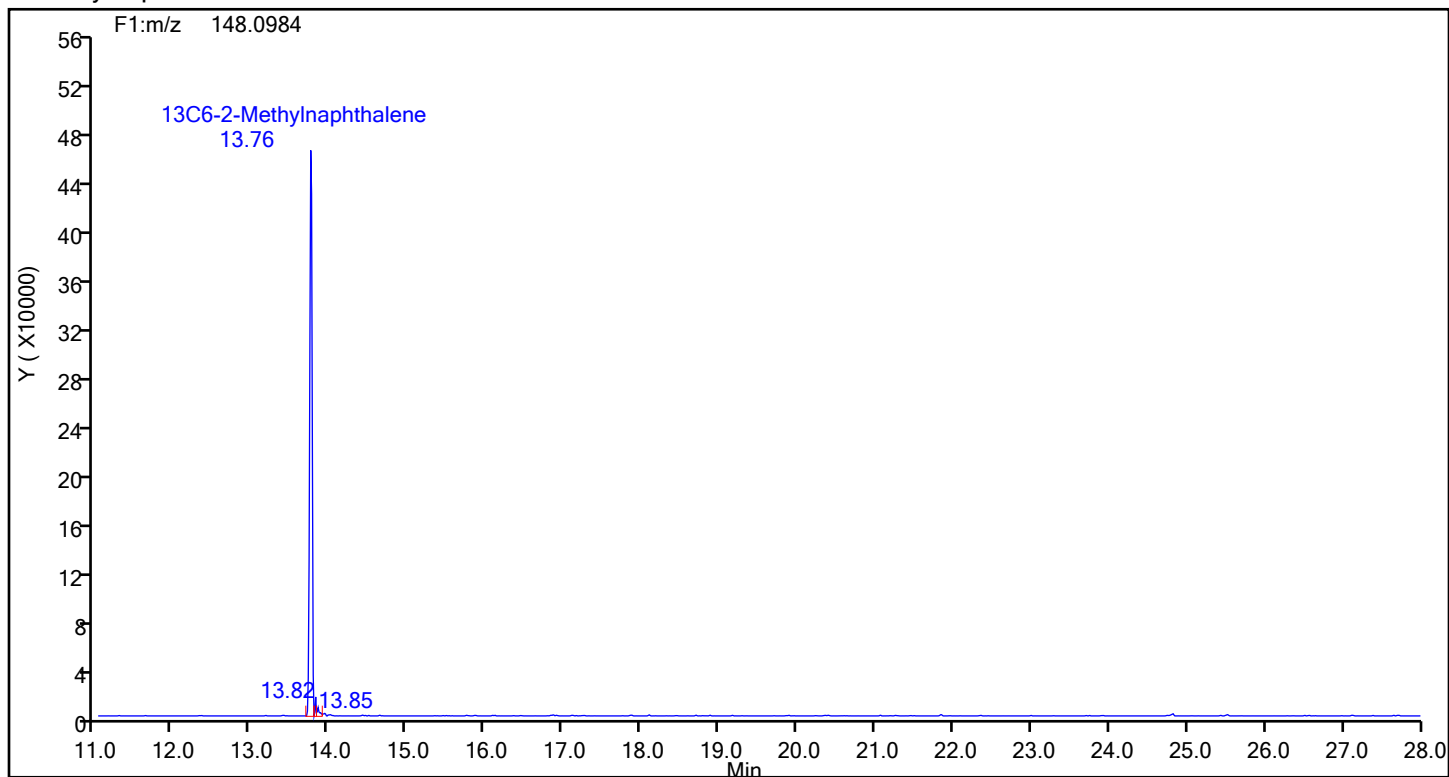
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



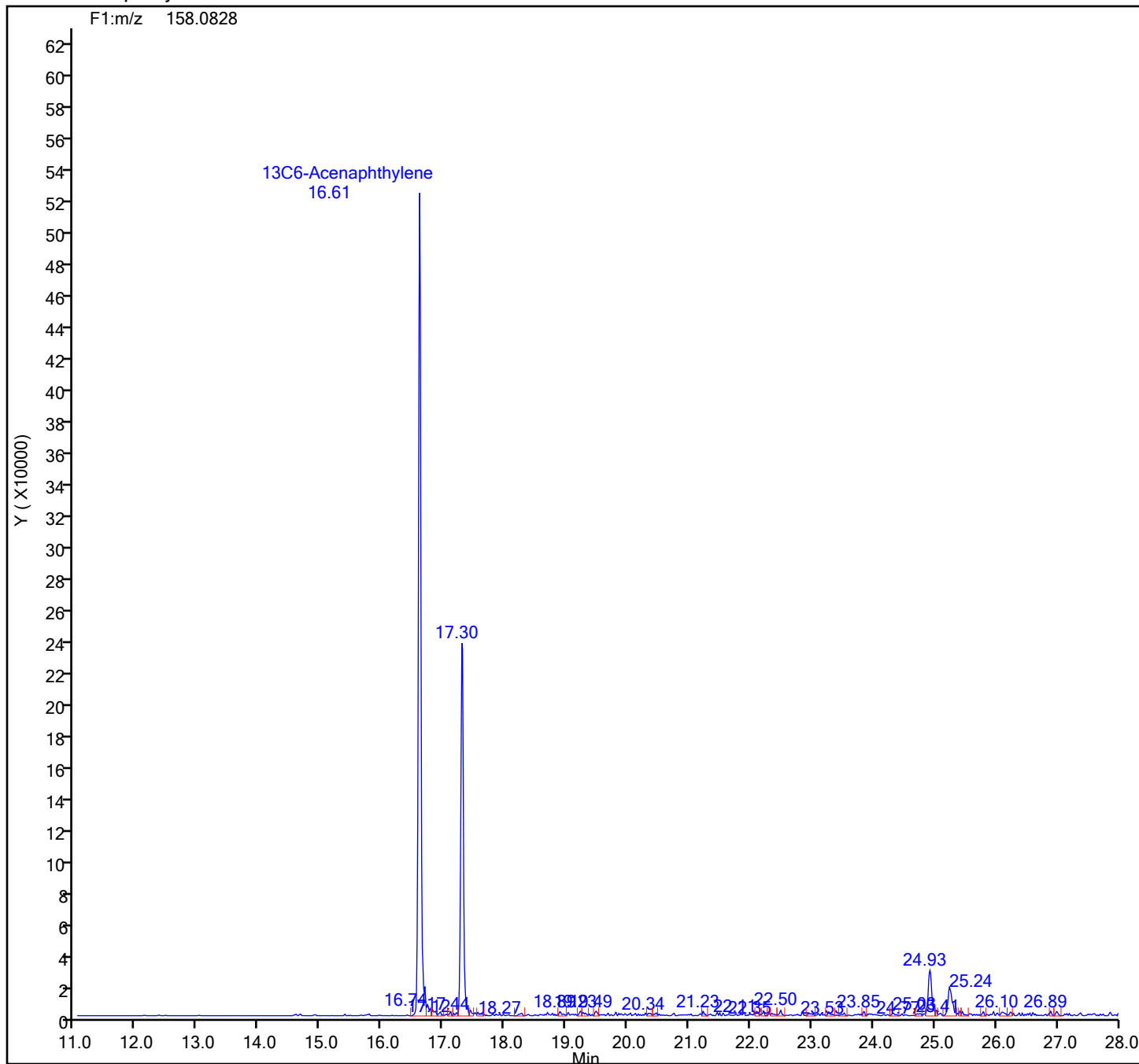
2-Methylnaphthalene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

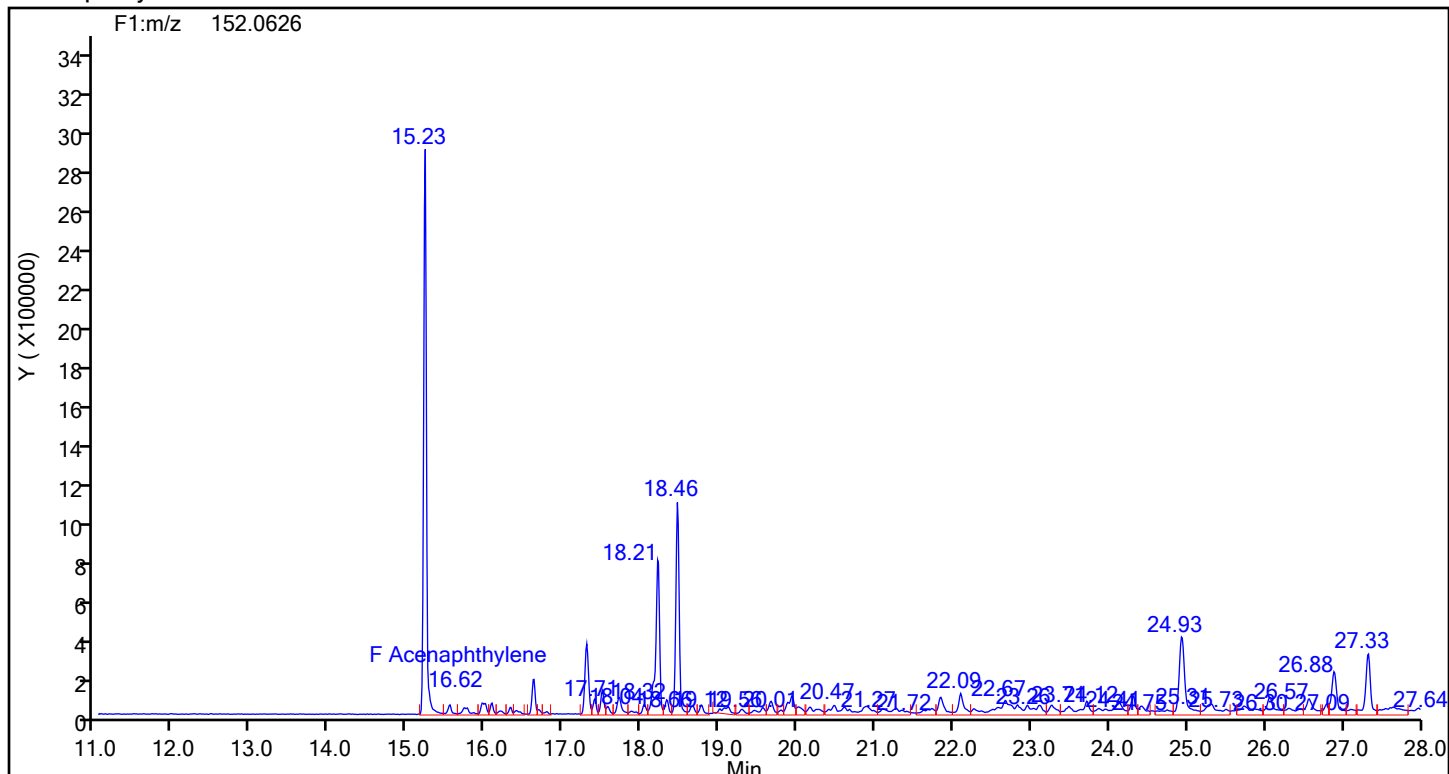
13C6-Acenaphthylene Standards



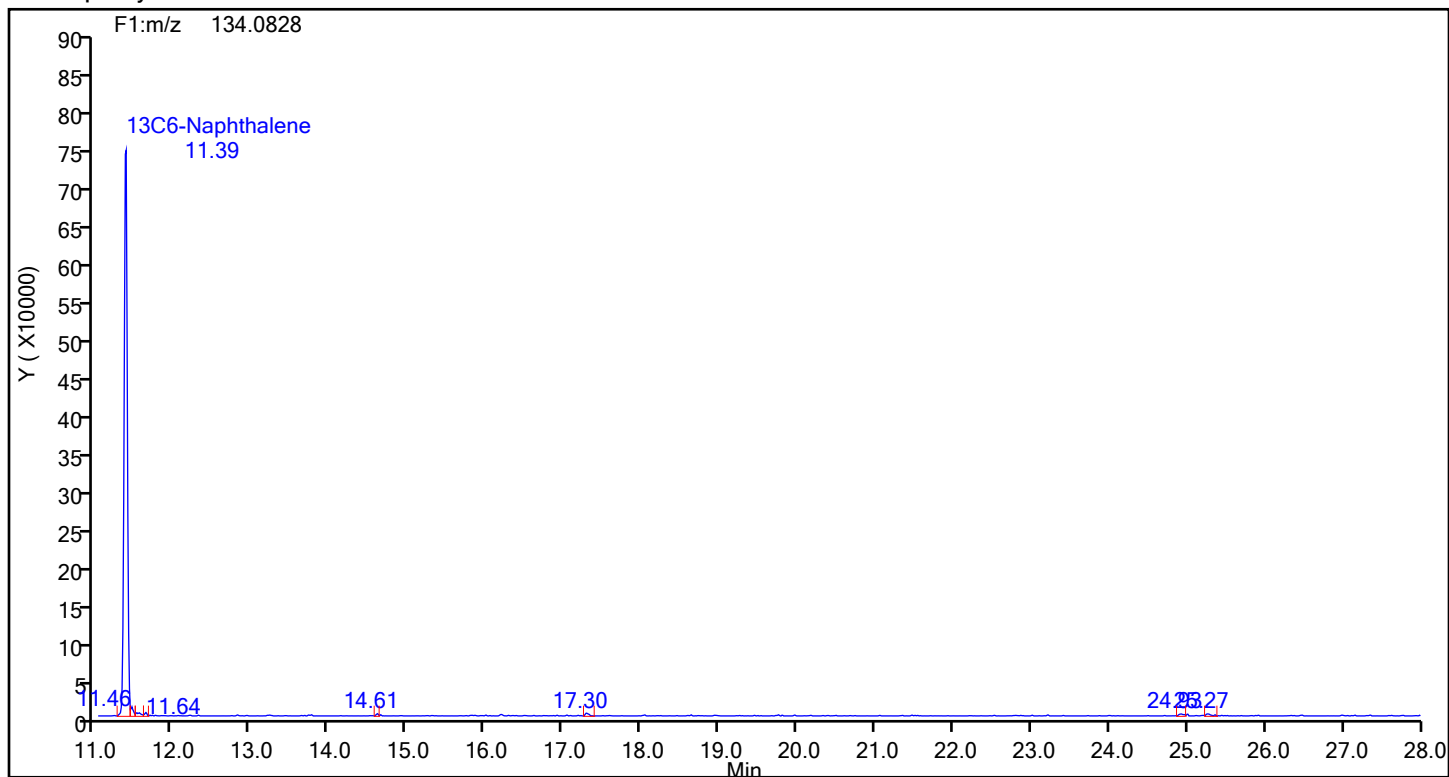
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

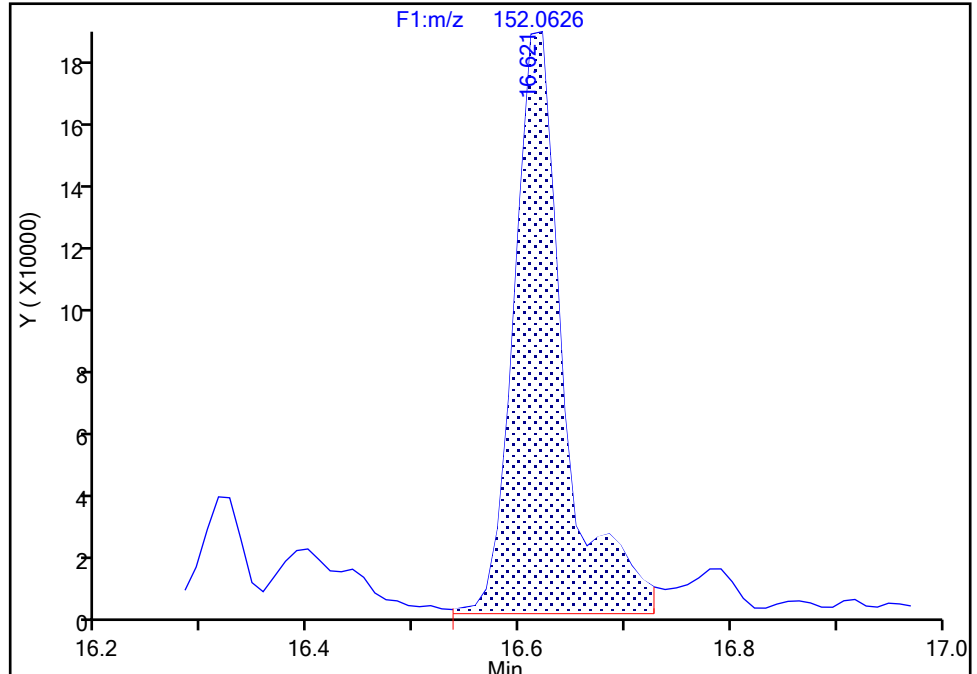
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Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

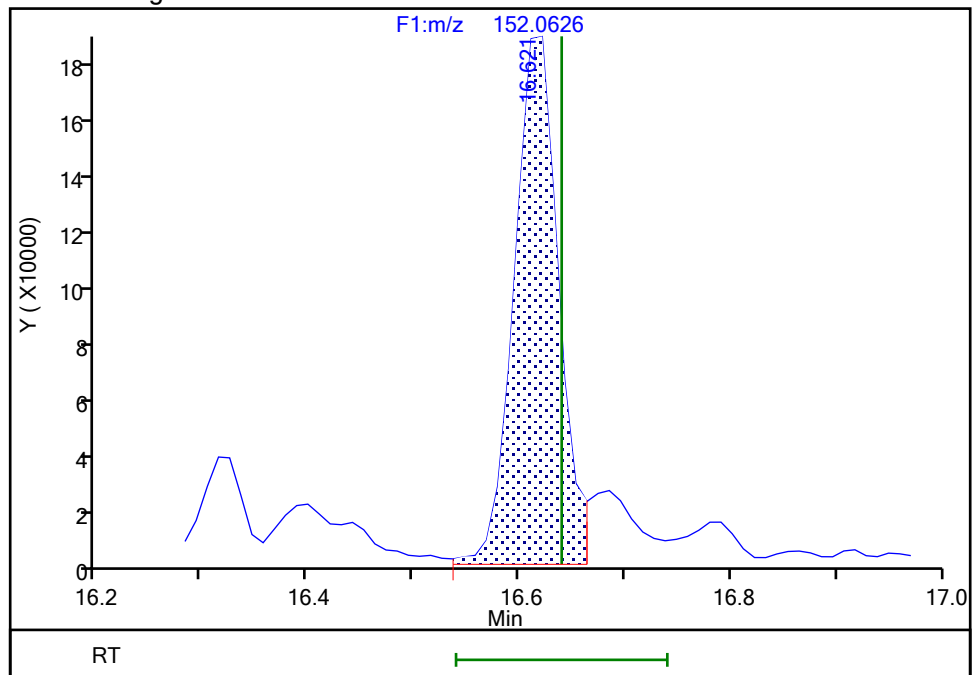
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Area: 588813
Amount: 2.995983
Amount Units: pg/ul

Processing Integration Results



RT: 16.62
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Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:37 -04:00:00 (UTC)

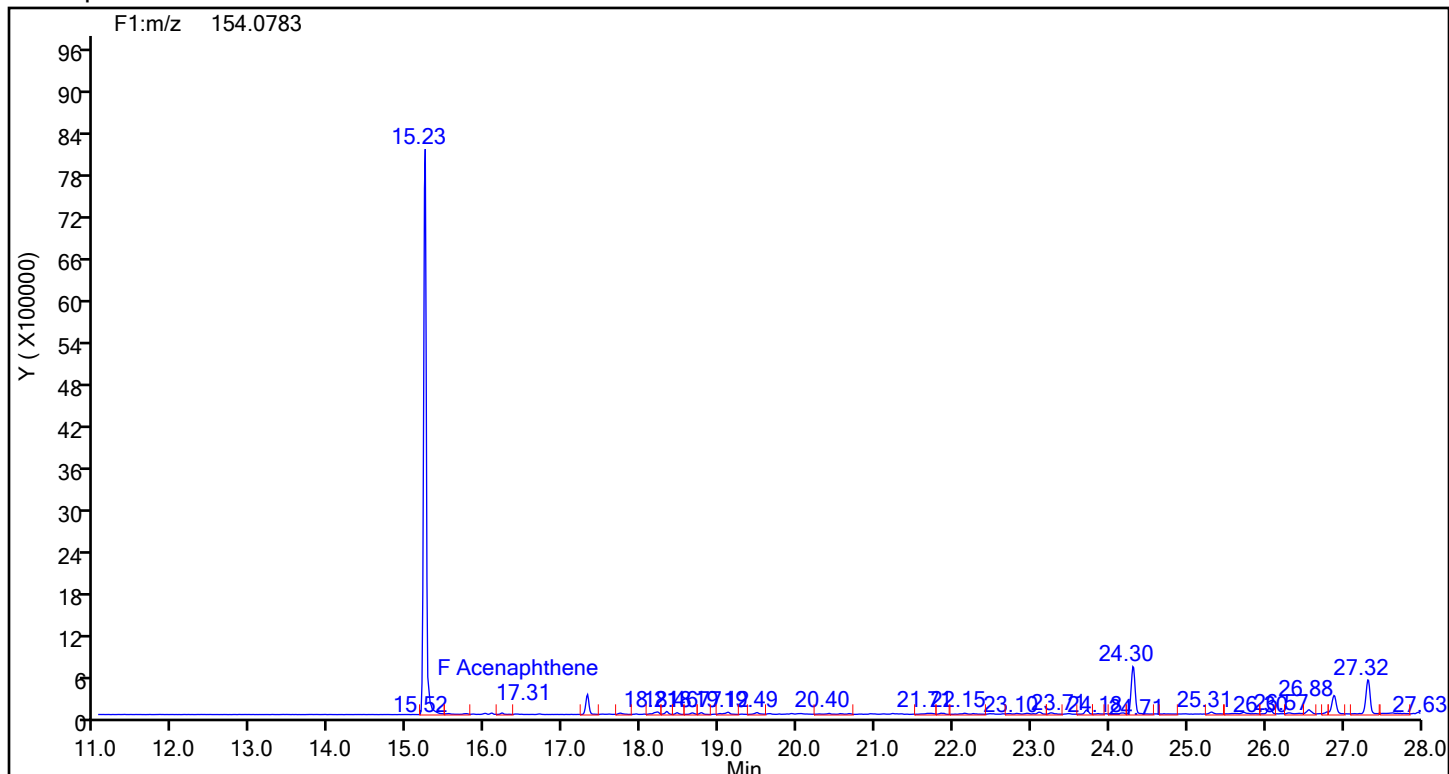
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

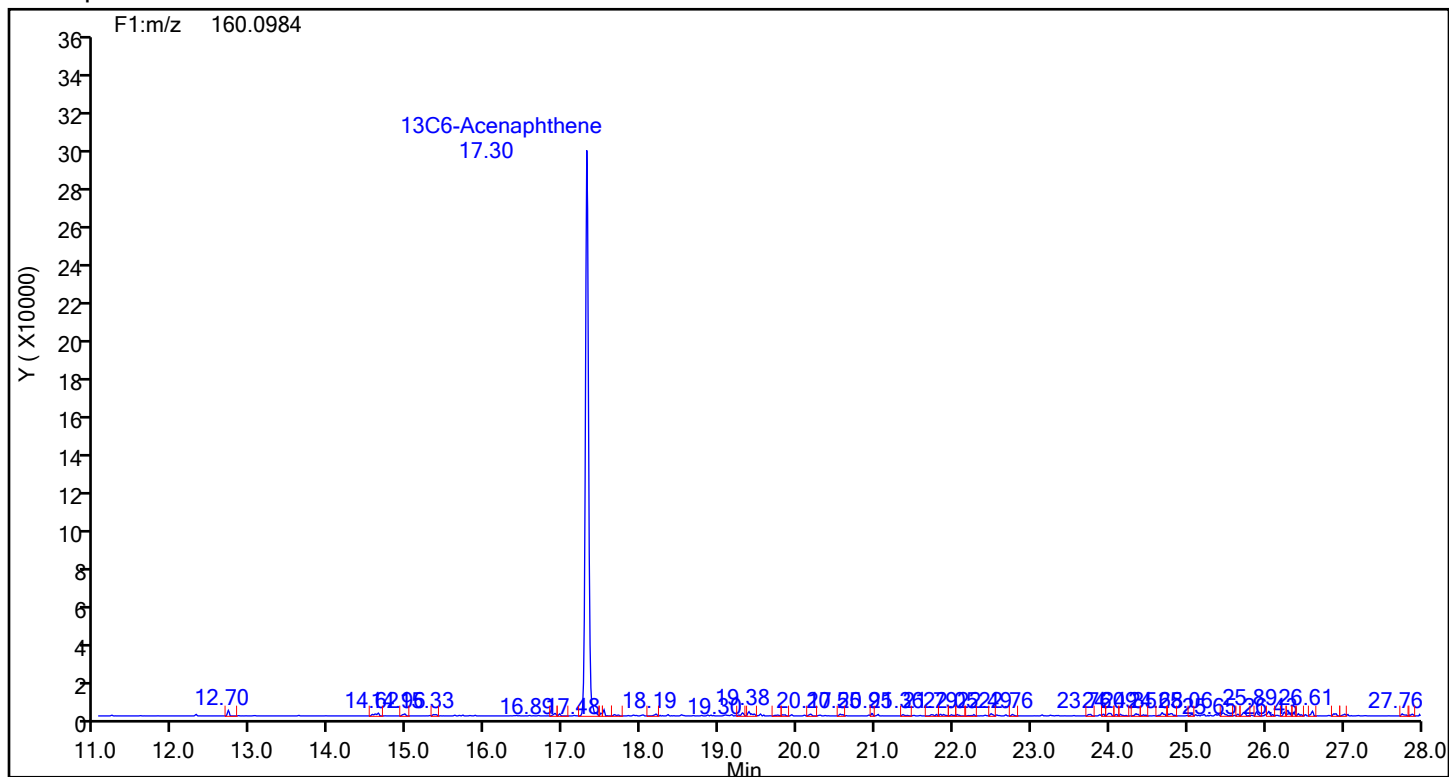
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



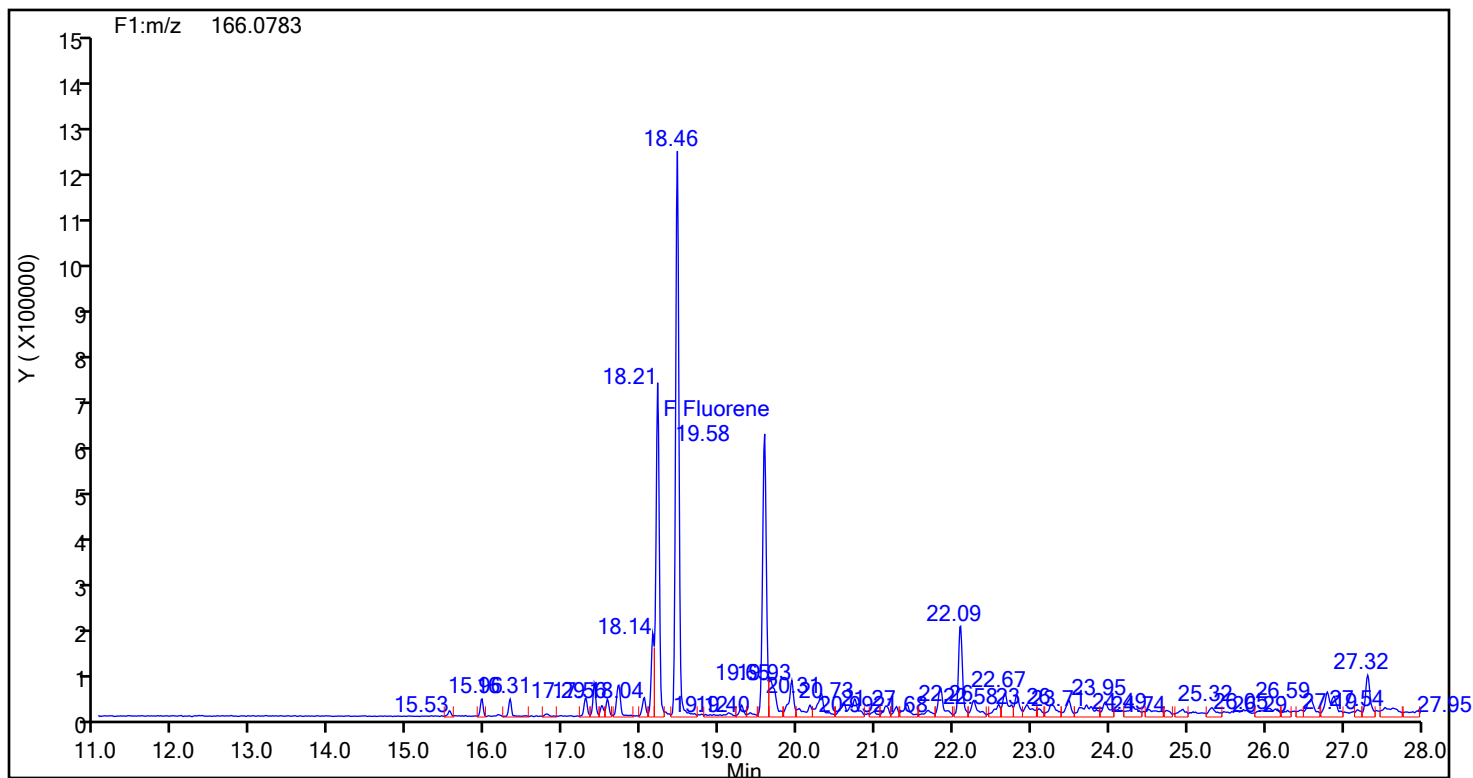
Acenaphthene Standards



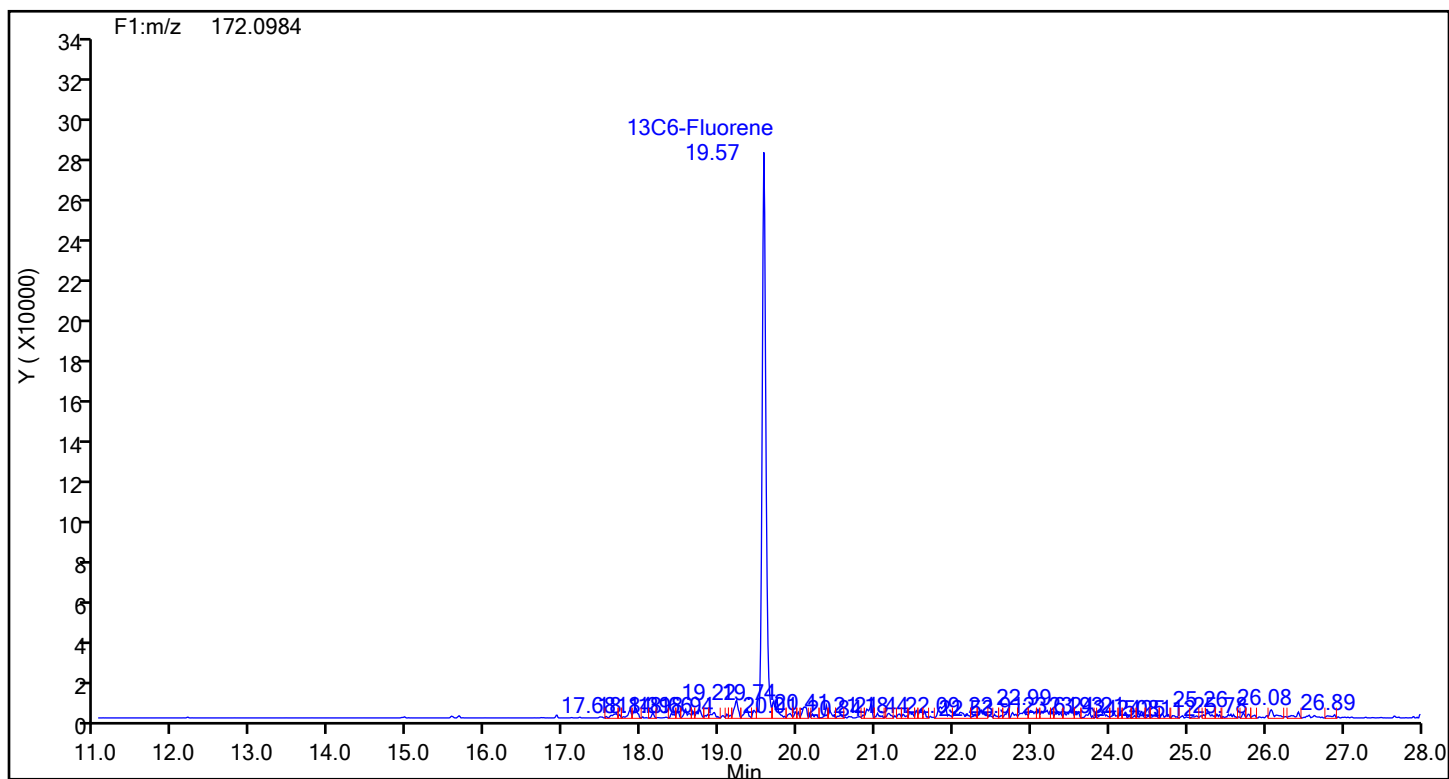
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

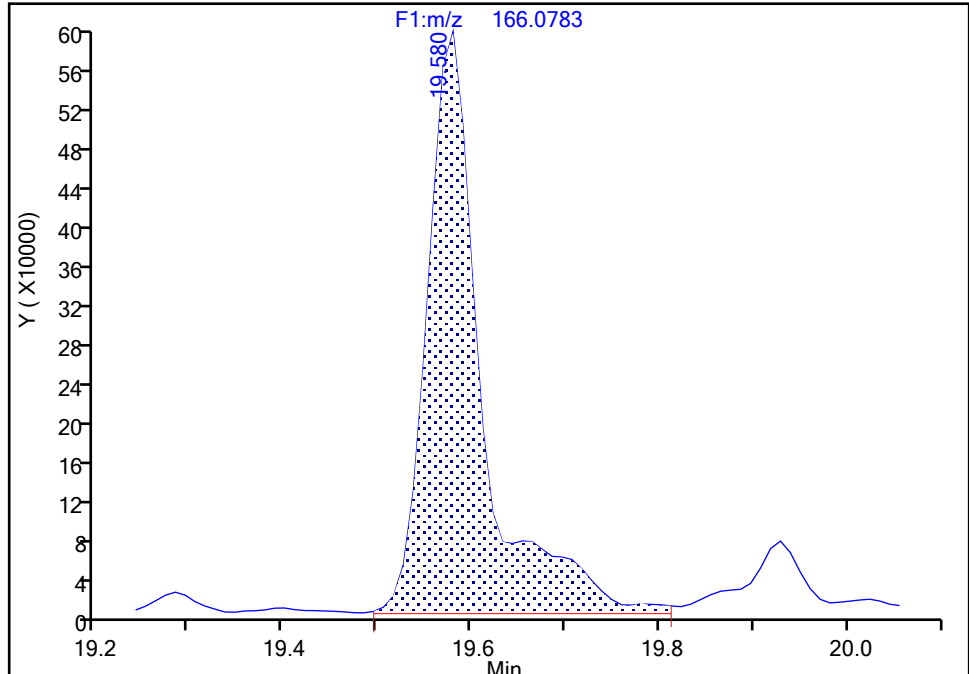
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Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Fluorene, CAS: 86-73-7

Signal: 1

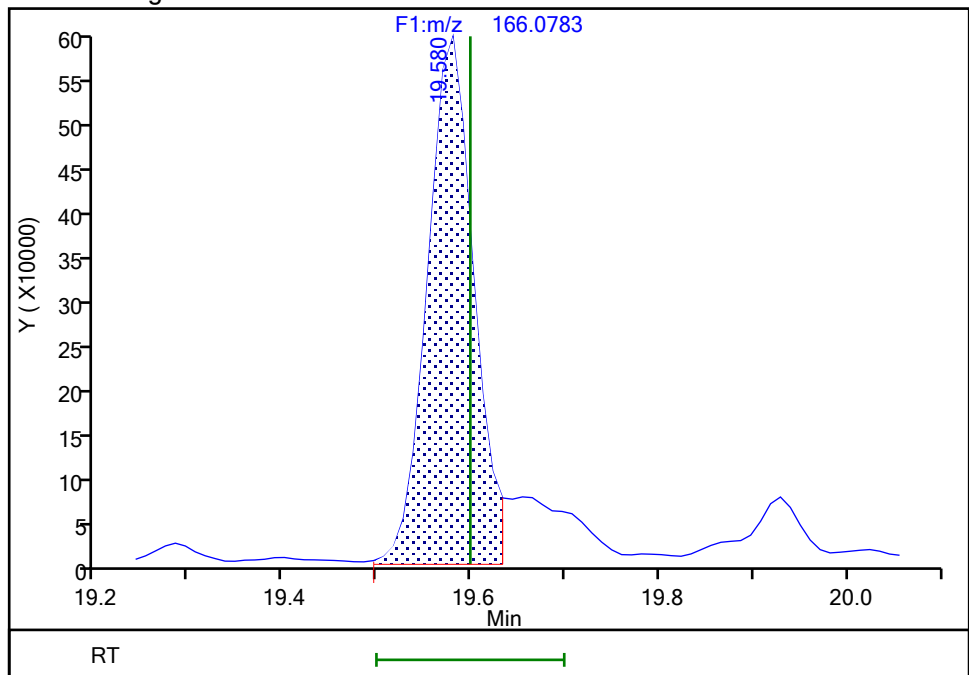
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Processing Integration Results



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Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:18:13 -04:00:00 (UTC)

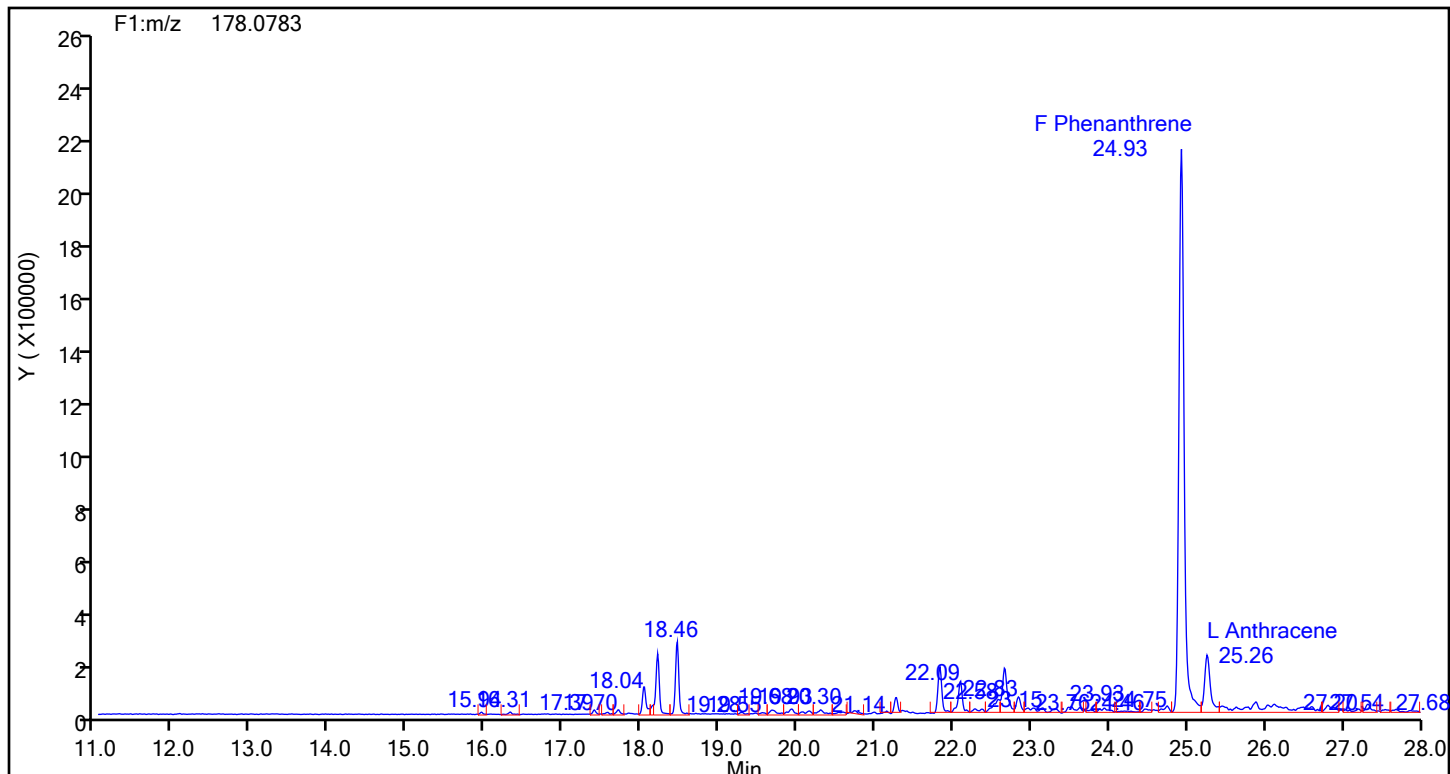
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

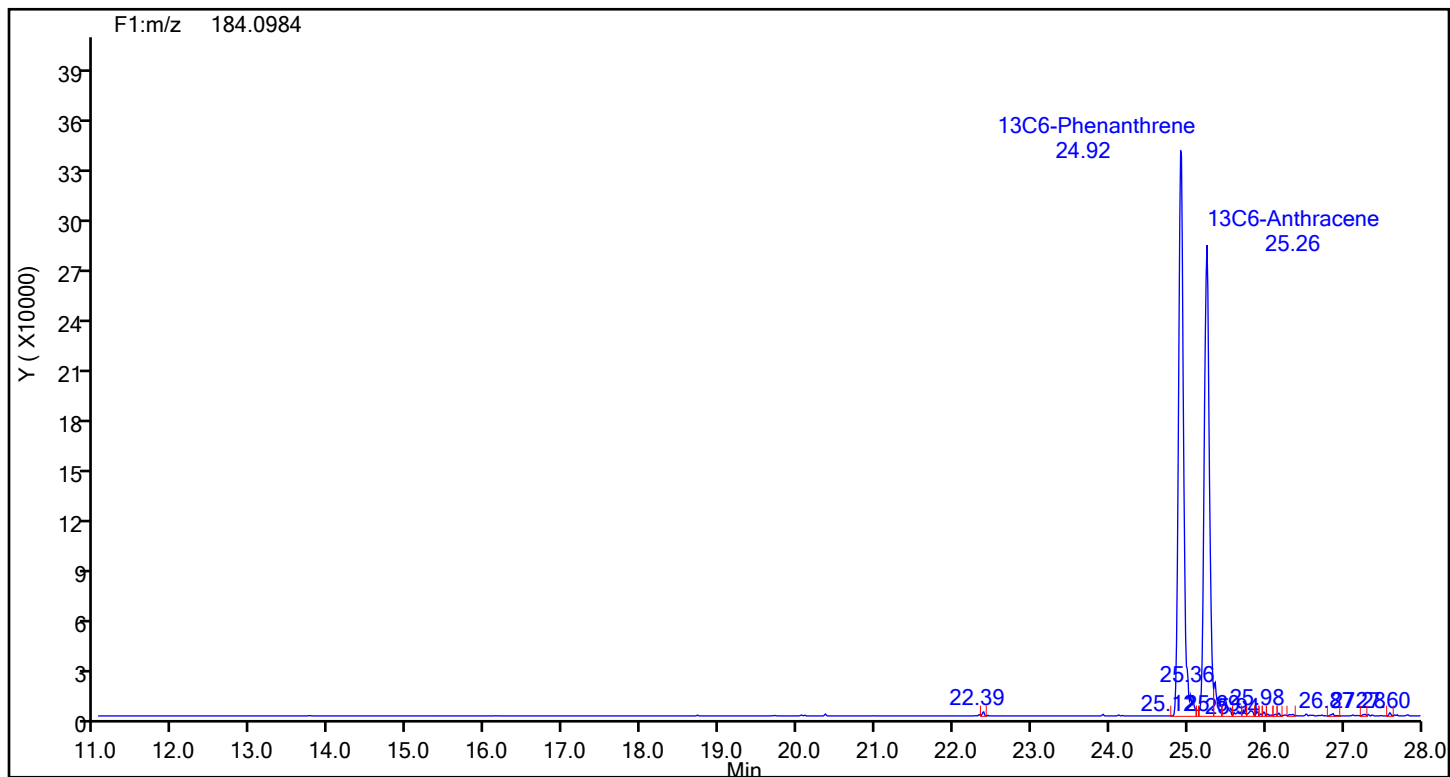
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

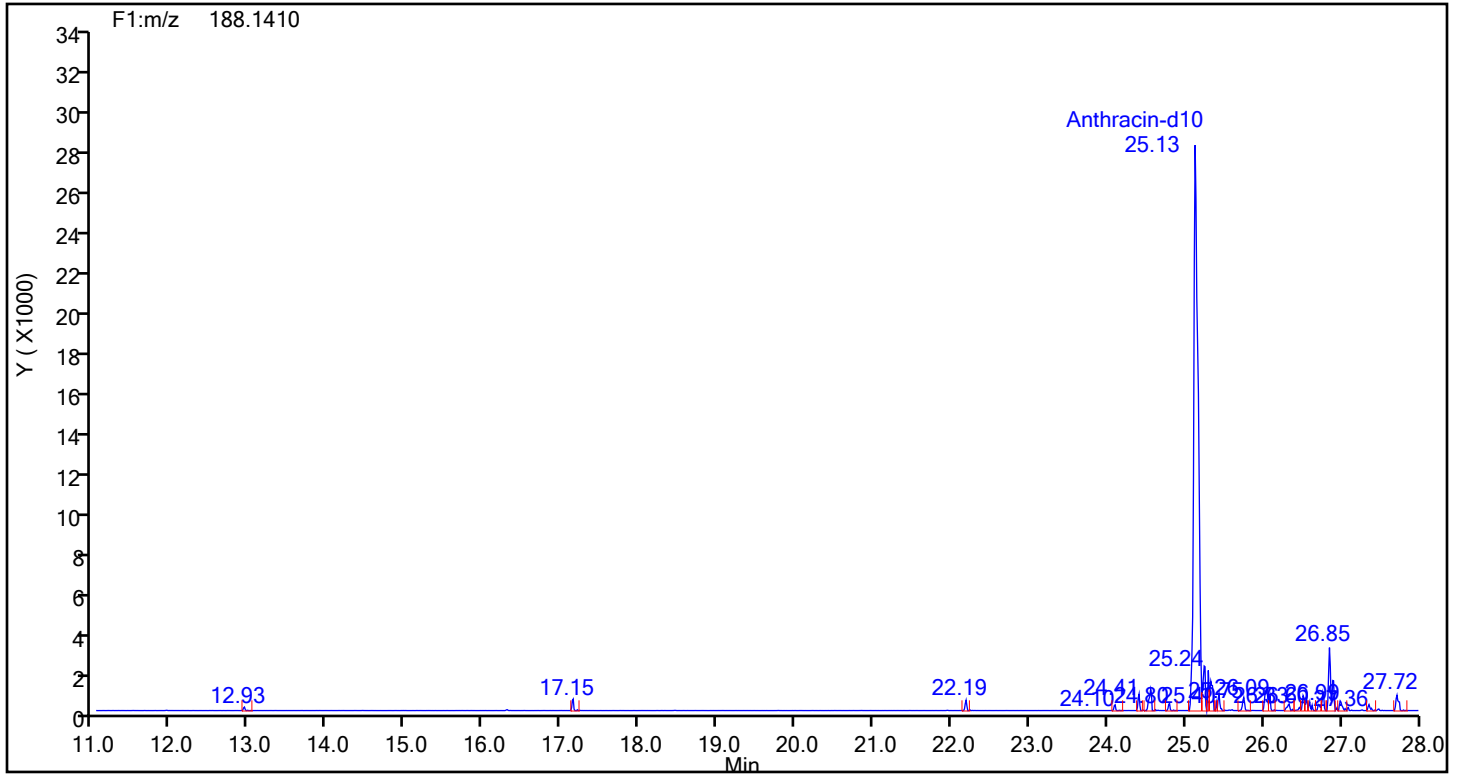


Phenanthrene Standards

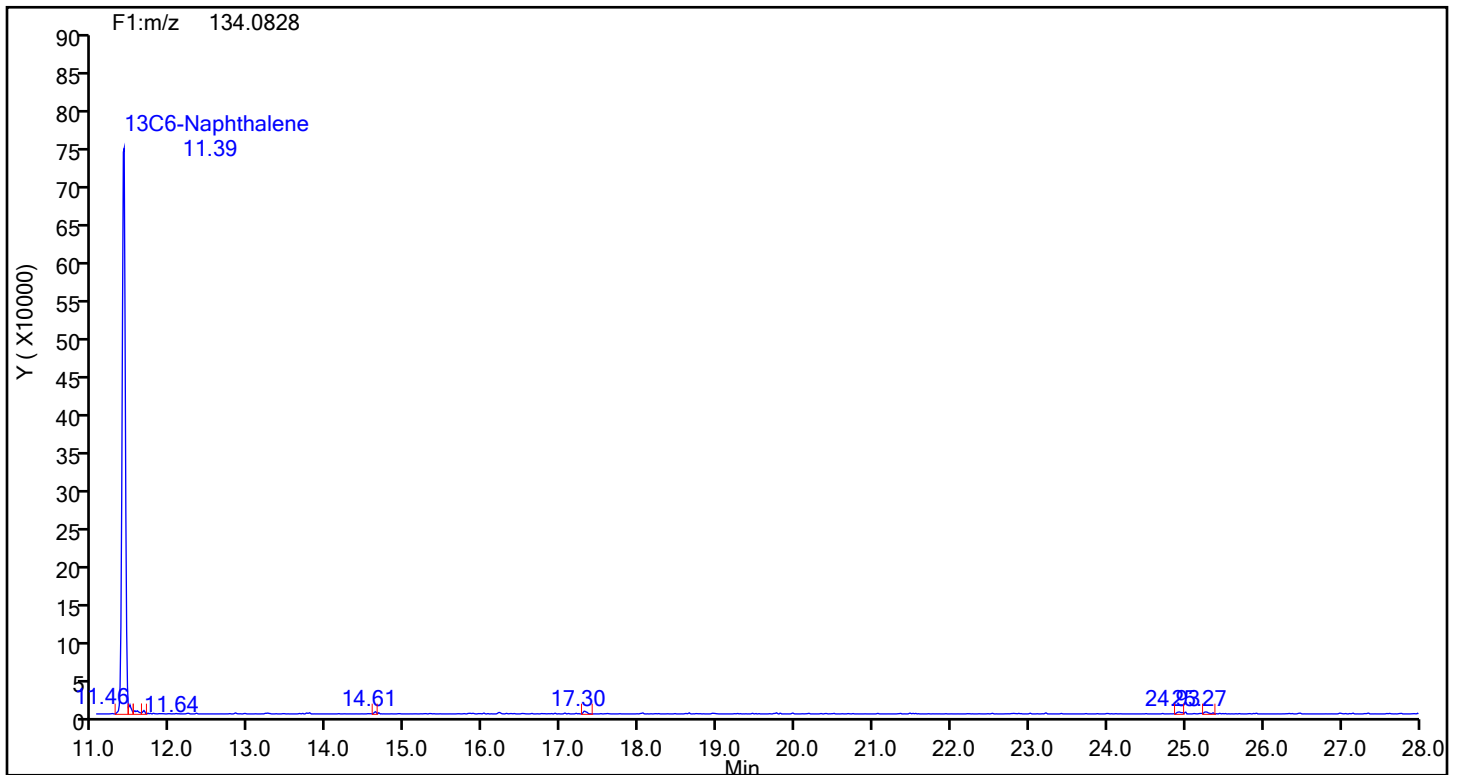


Eurofins Knoxville

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Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



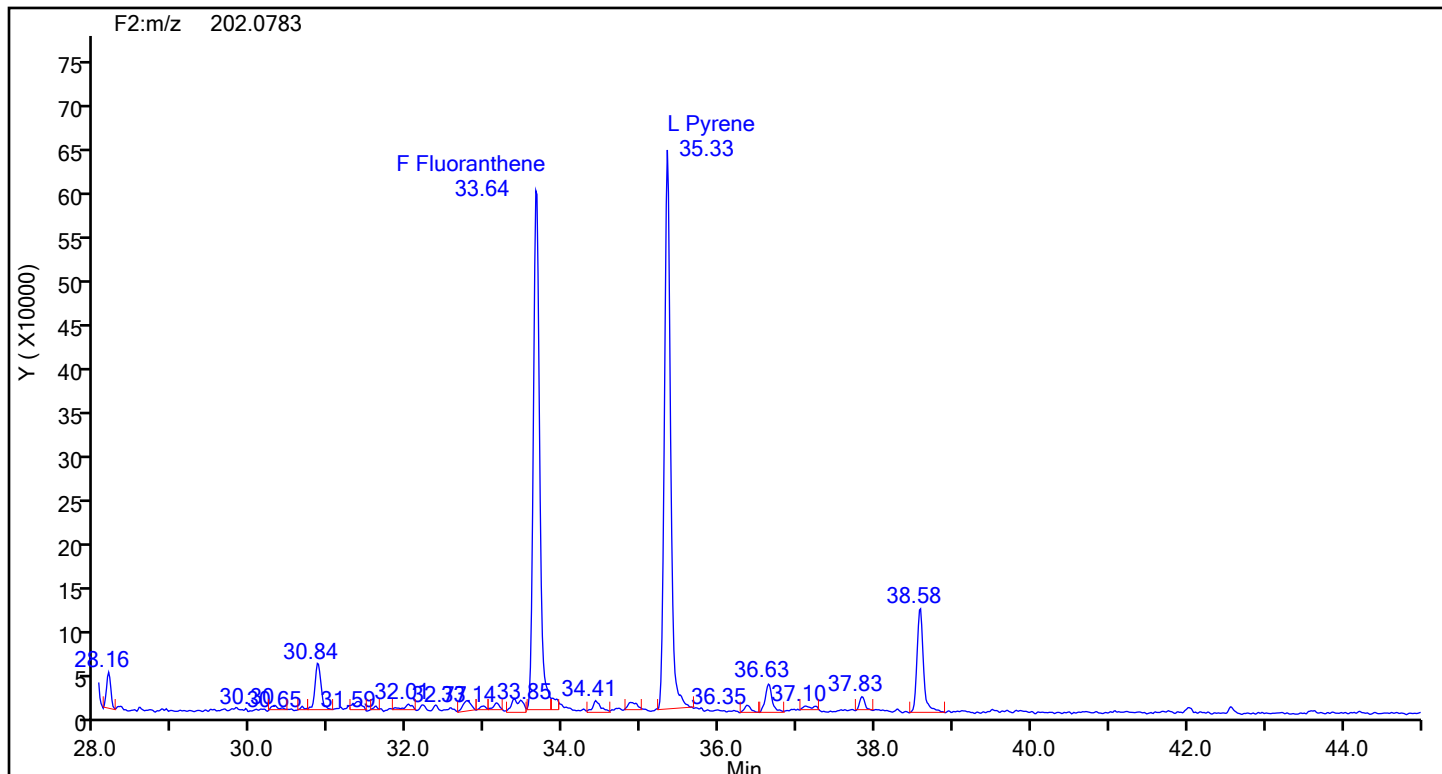
Anthracin-d10 Standards



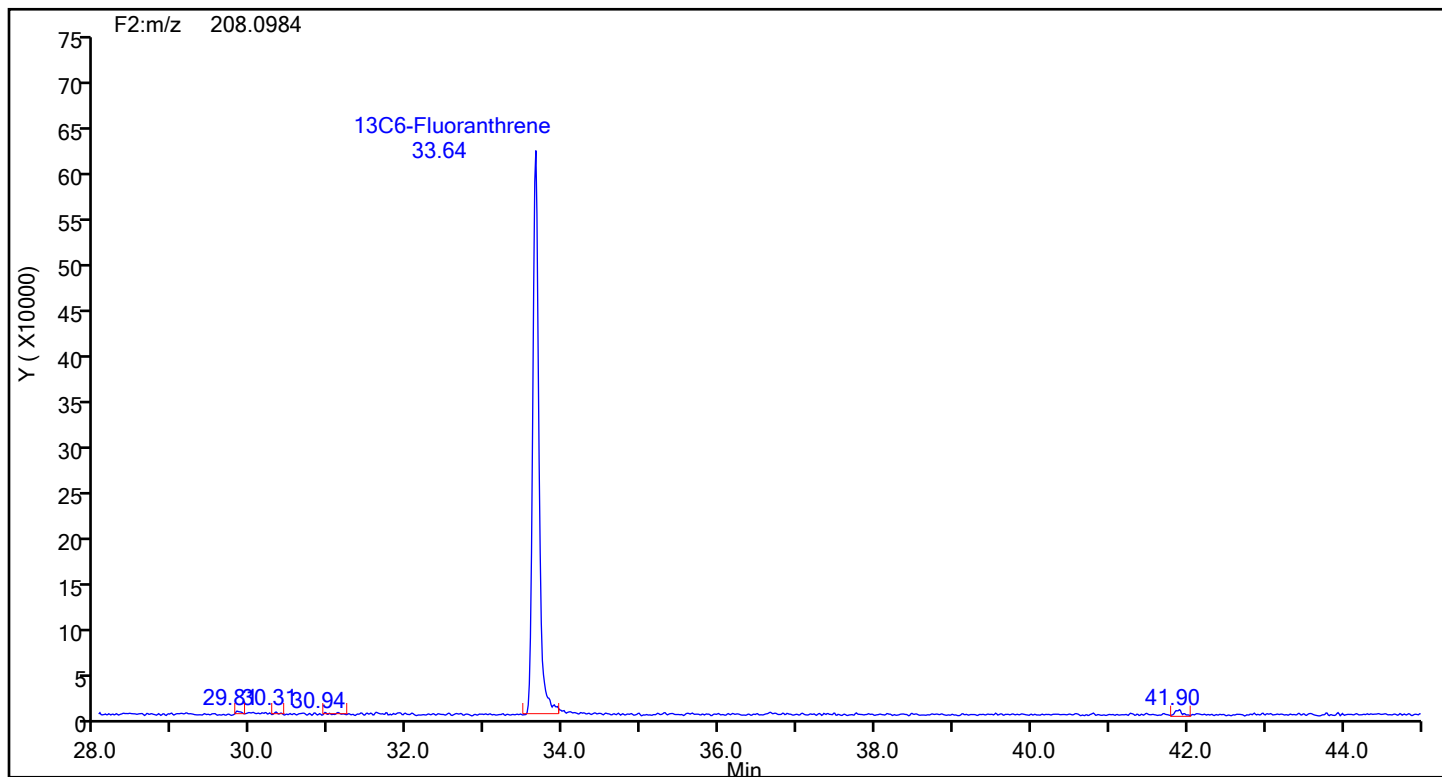
Eurofins Knoxville

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Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

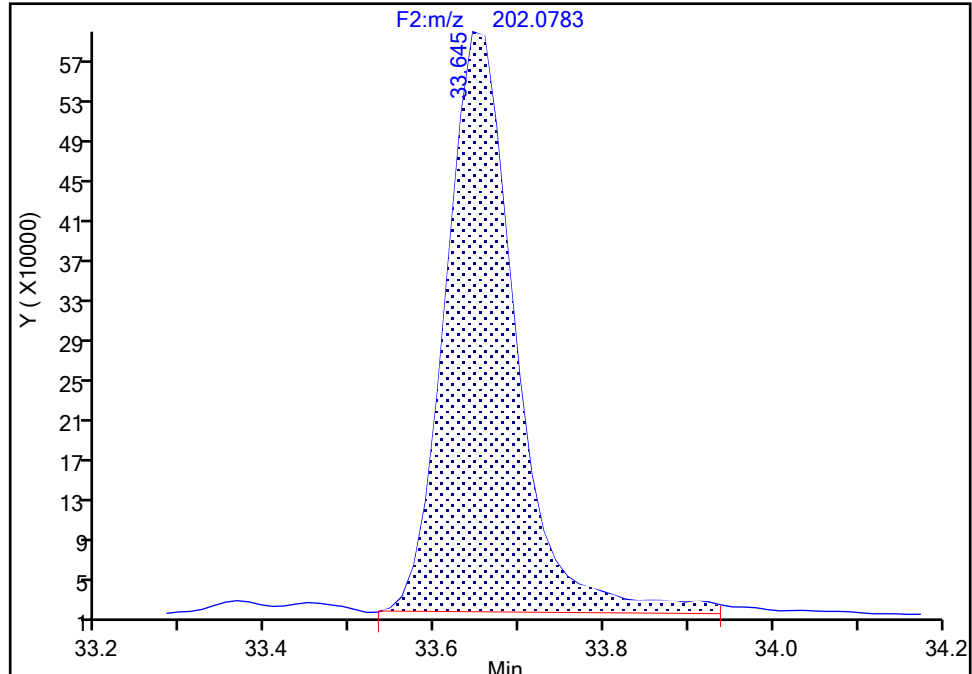
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Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F2(28.03 :43.99)

Fluoranthene, CAS: 206-44-0

Signal: 1

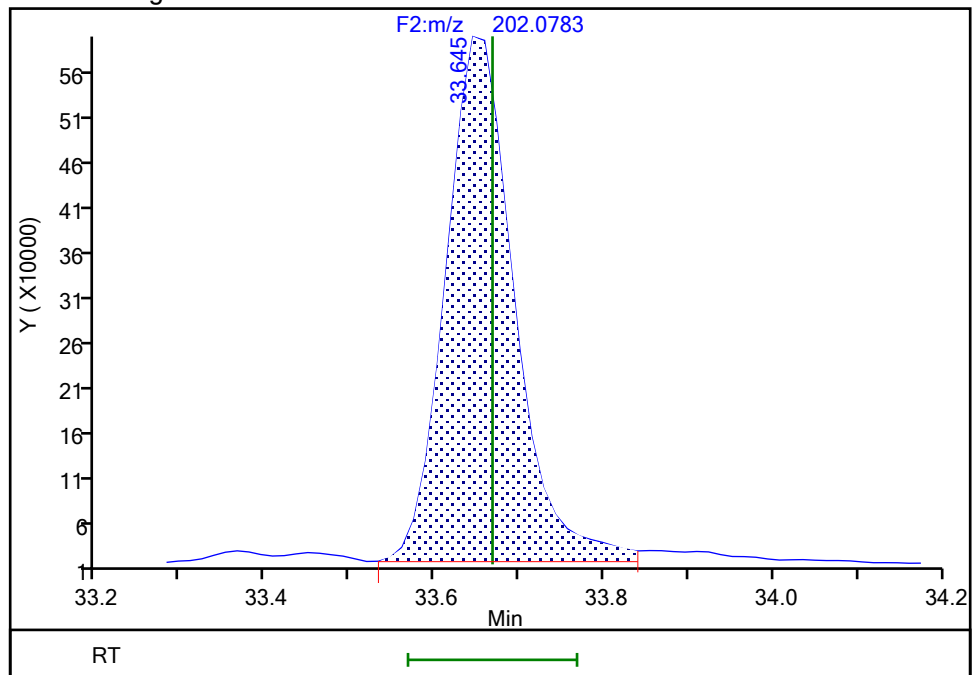
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Amount Units: pg/ul

Processing Integration Results



RT: 33.64
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Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:10 -04:00:00 (UTC)

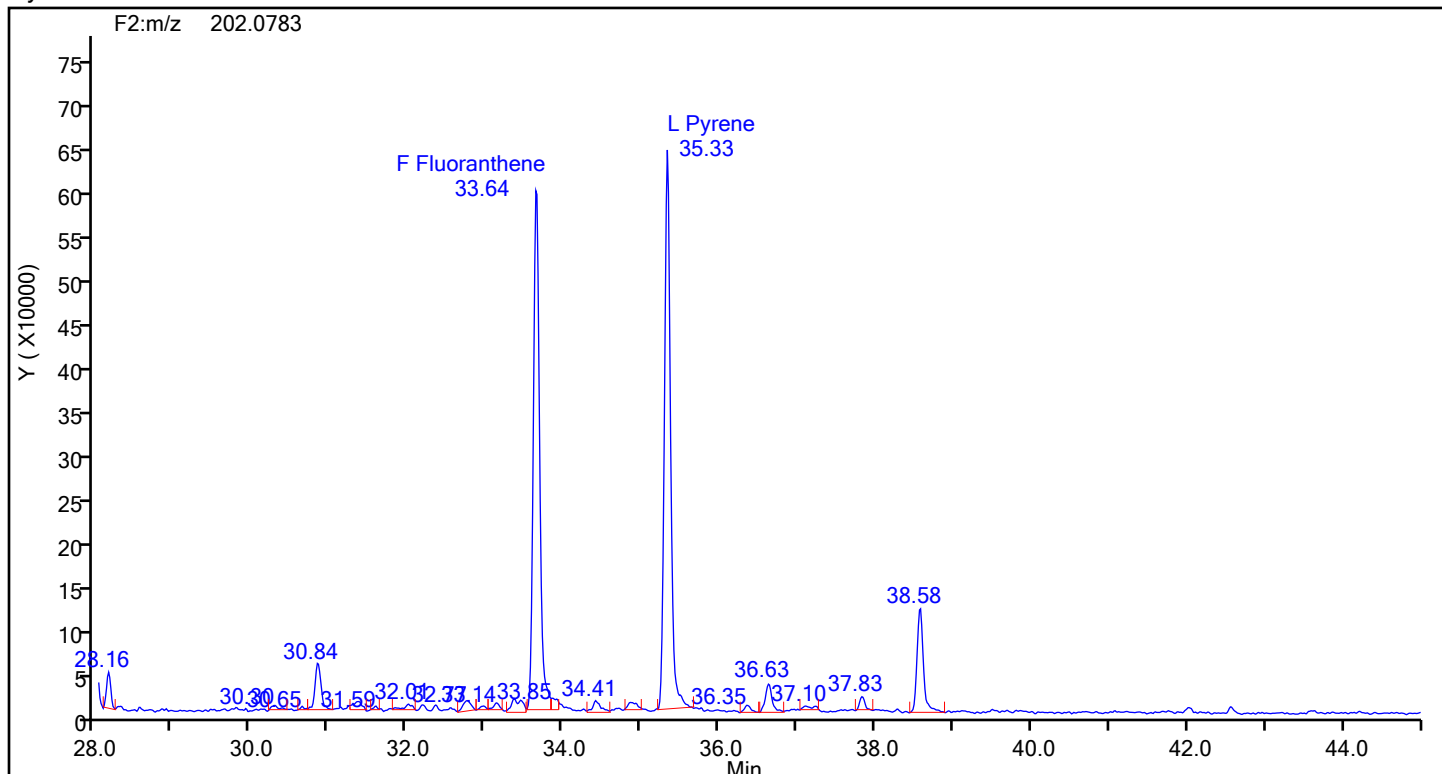
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

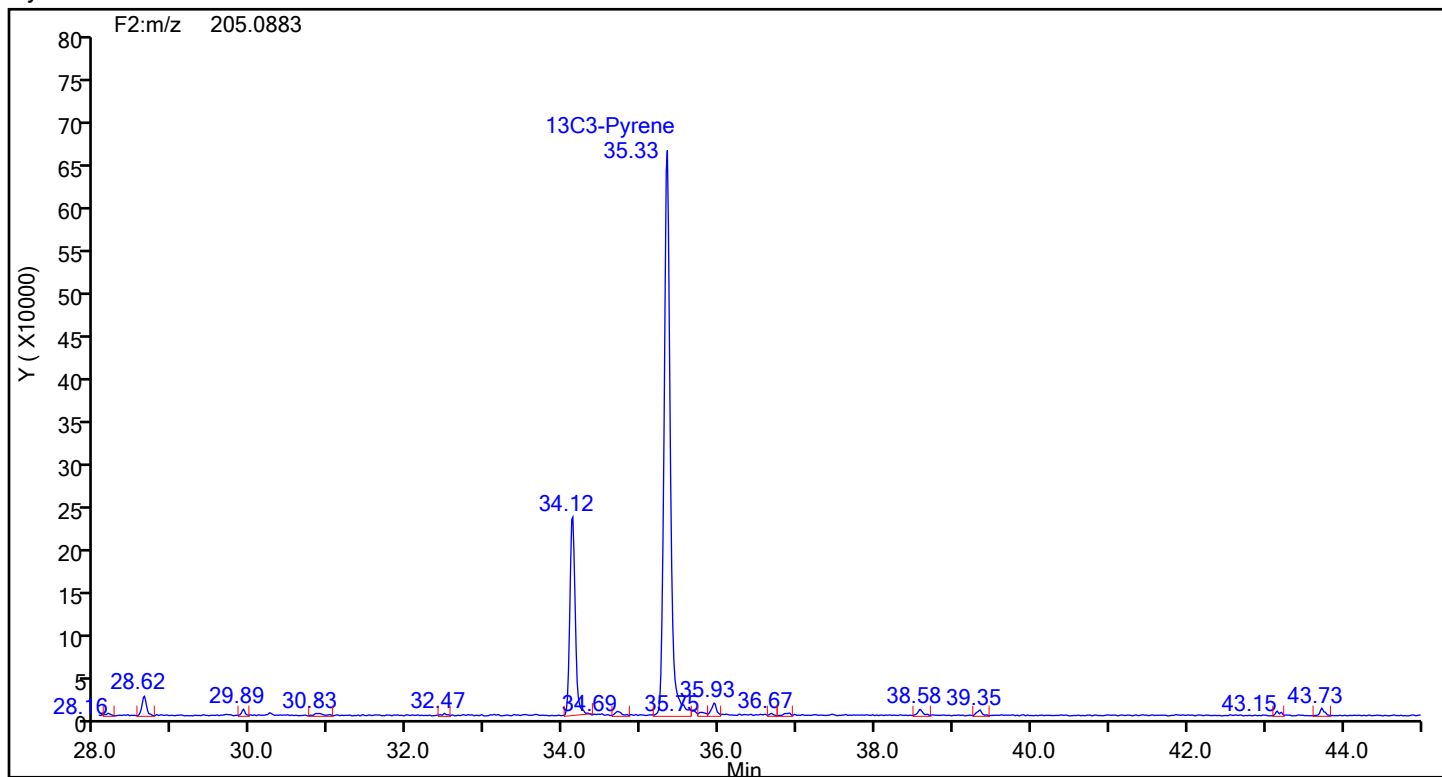
Eurofins Knoxville

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Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



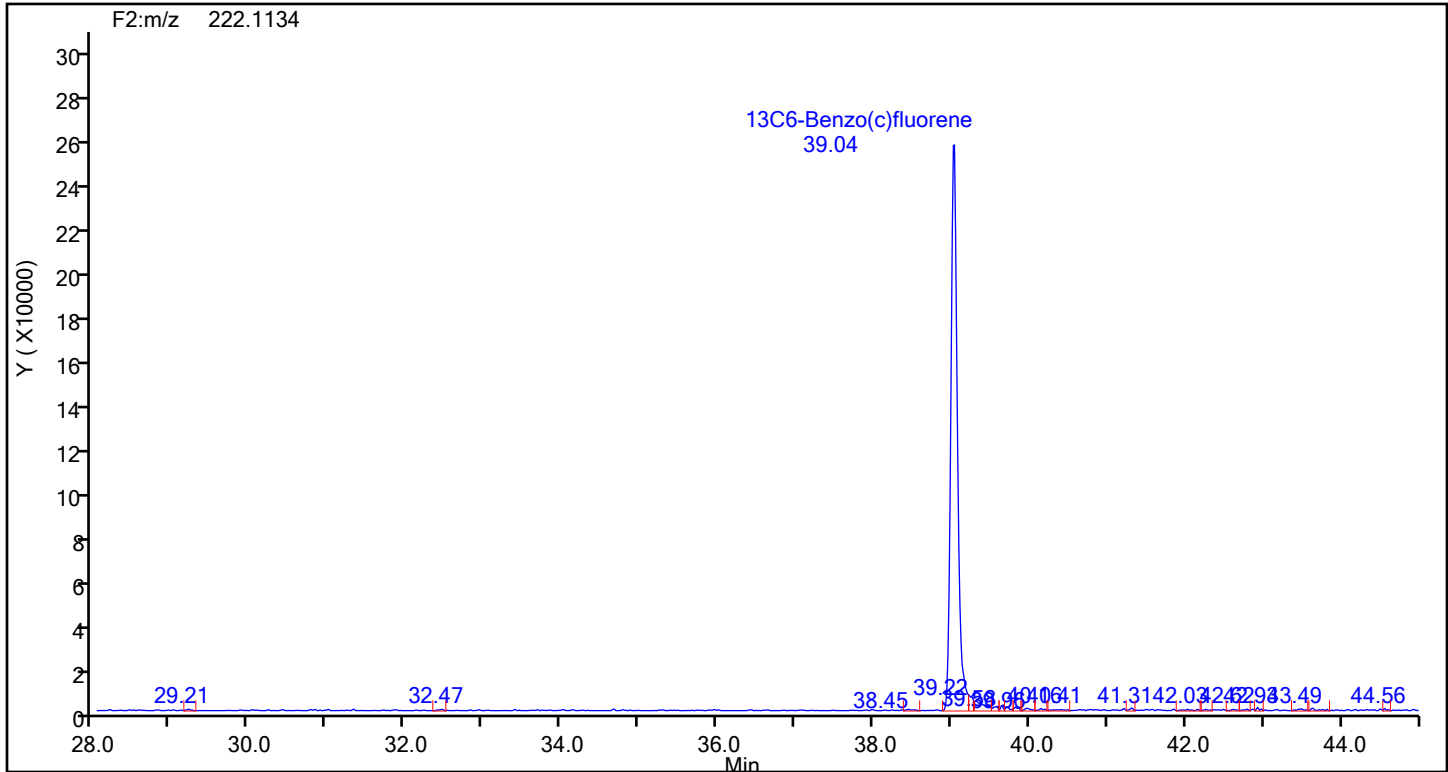
Pyrene Standards



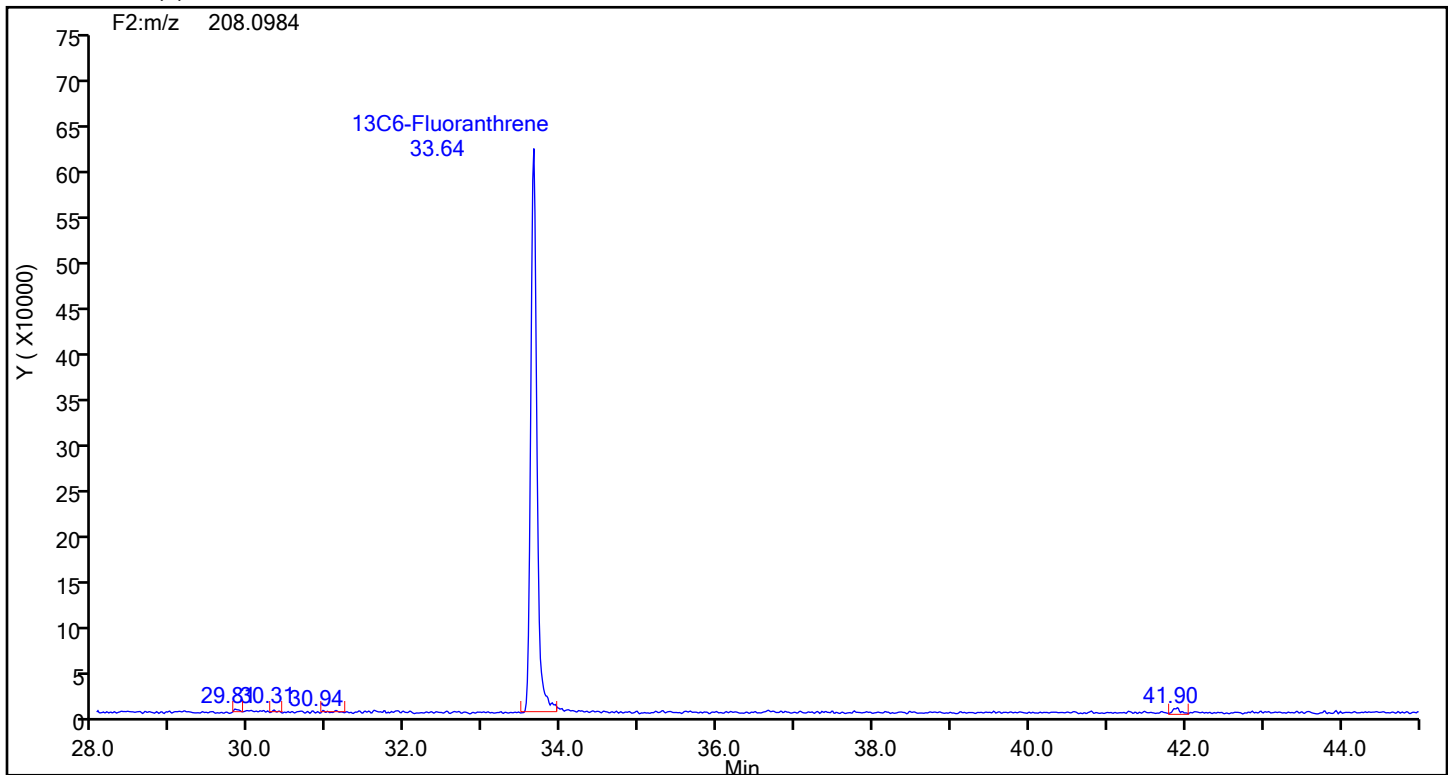
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



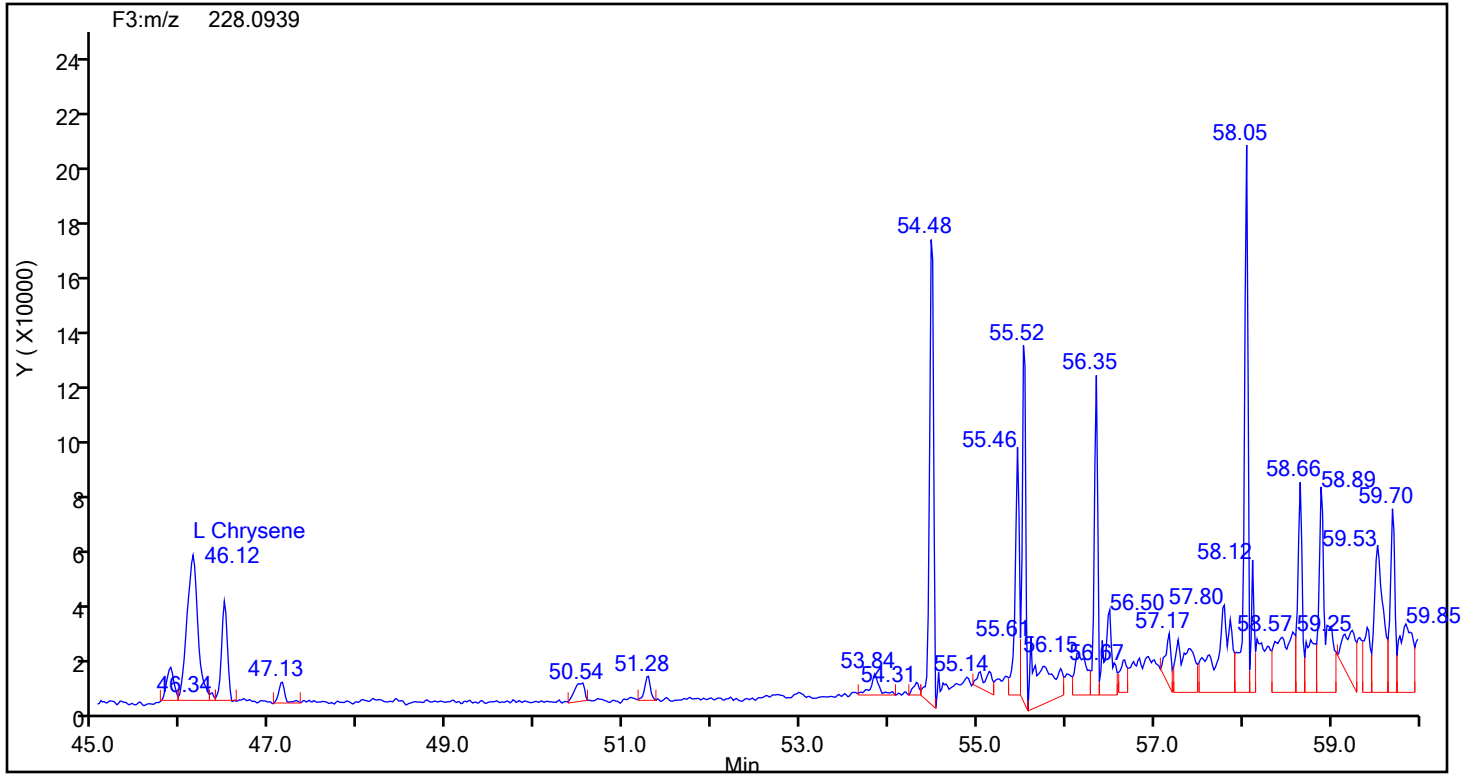
13C6-Benzo(c)fluorene Standards



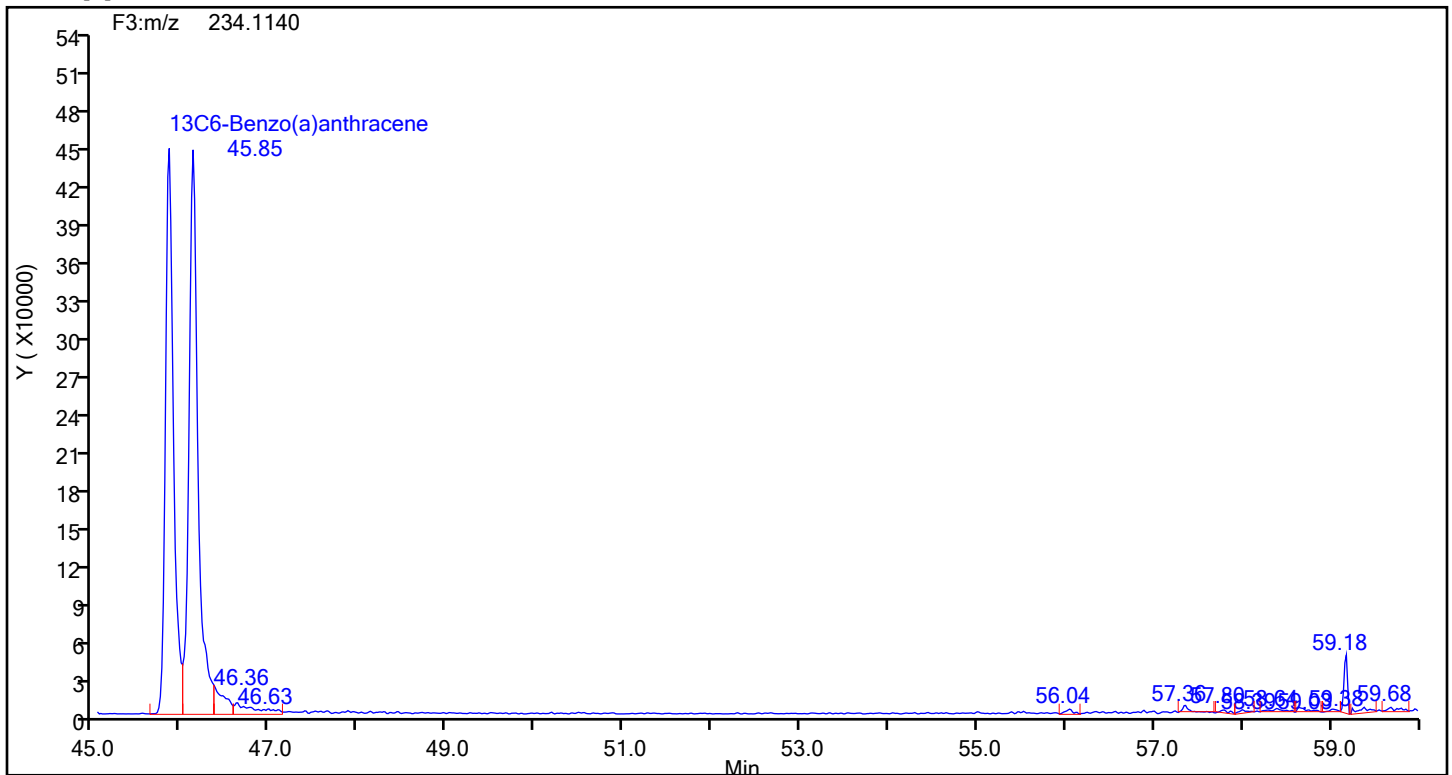
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

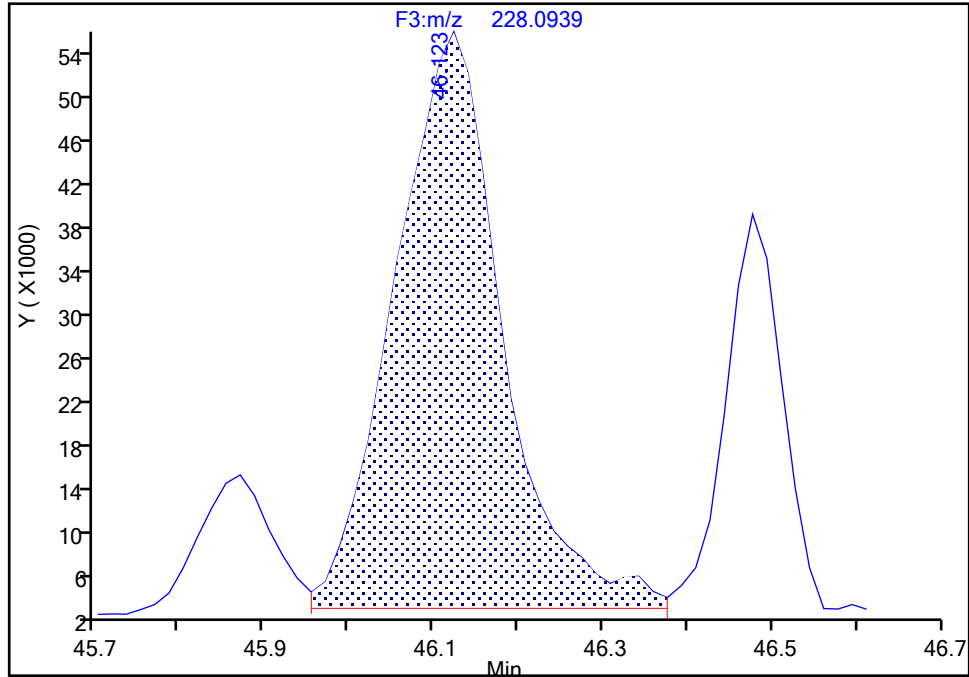
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Chrysene, CAS: 218-01-9

Signal: 1

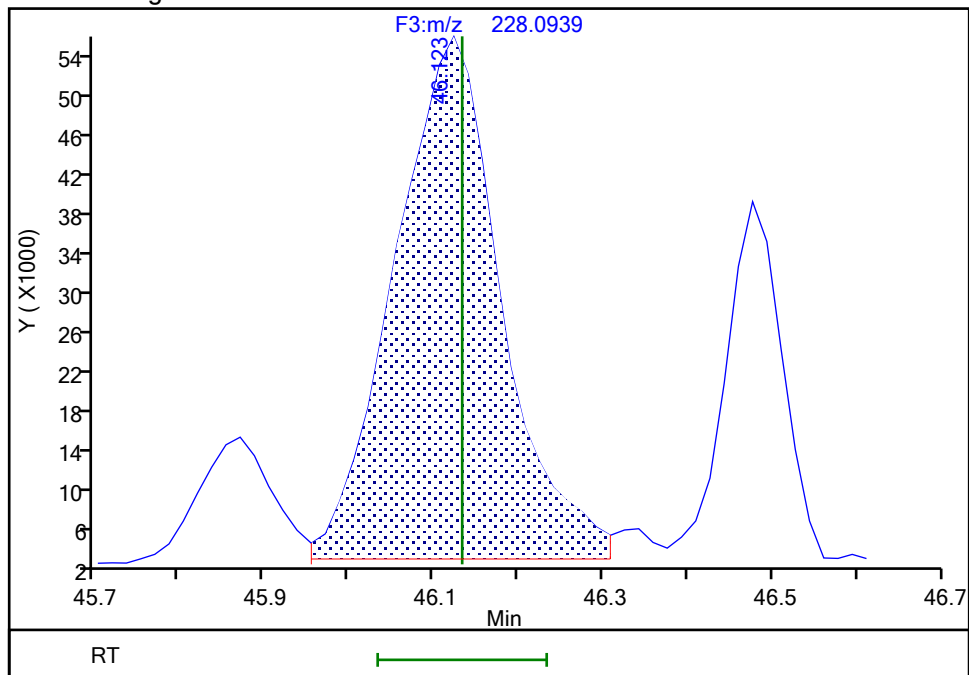
RT: 46.12
Area: 467905
Amount: 1.493872
Amount Units: pg/ul

Processing Integration Results



RT: 46.12
Area: 460642
Amount: 1.470684
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:05 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

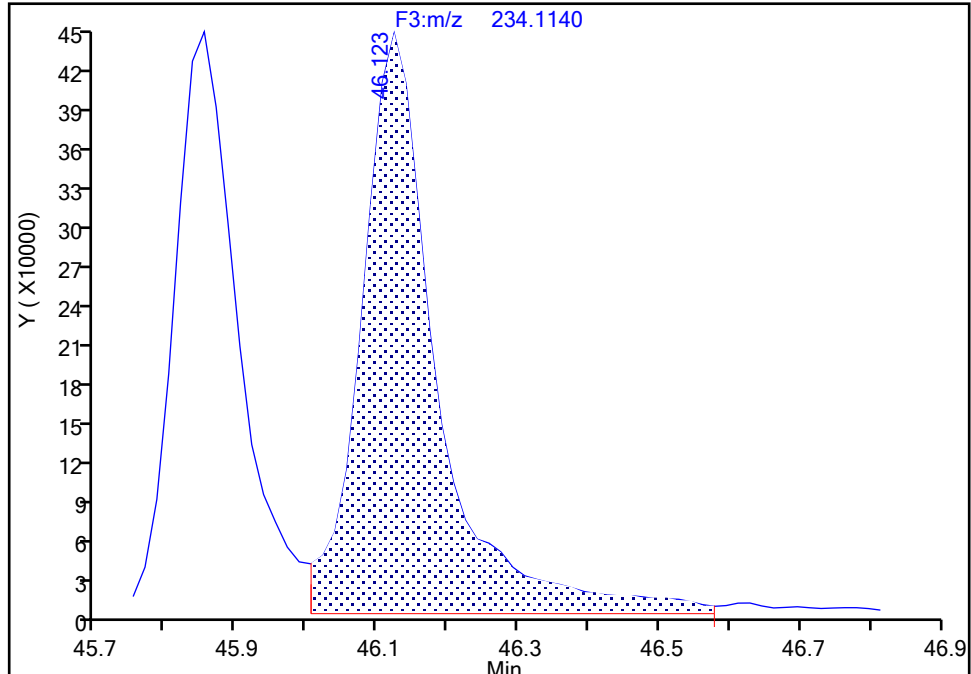
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Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Chrysene, CAS: 1397177-72-8

Signal: 1

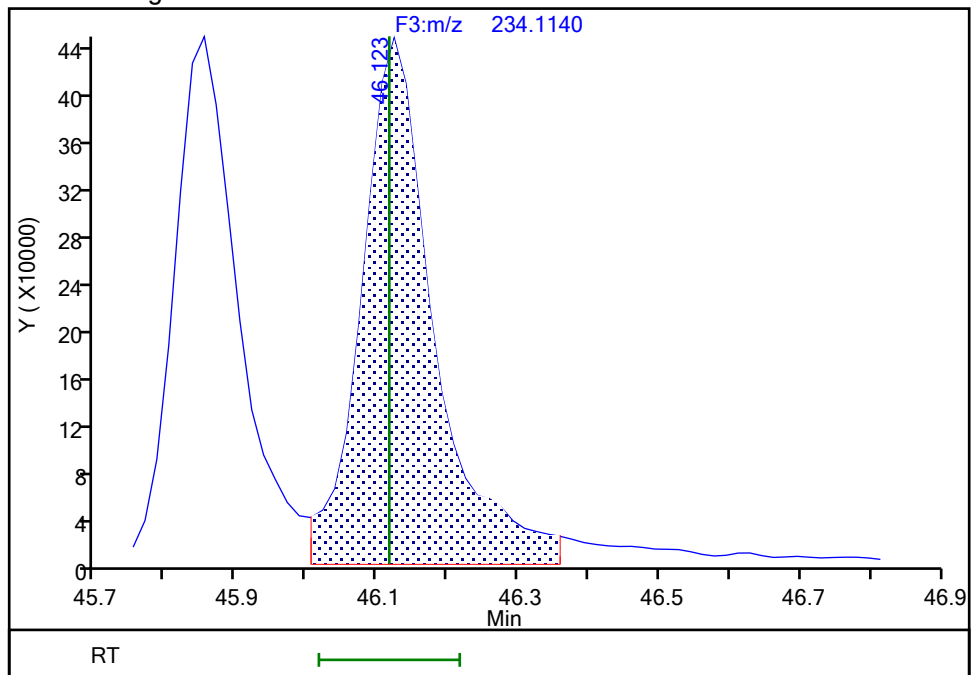
RT: 46.12
Area: 3338364
Amount: 6.656669
Amount Units: pg/ul

Processing Integration Results



RT: 46.12
Area: 3191349
Amount: 6.363522
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:29 -04:00:00 (UTC)

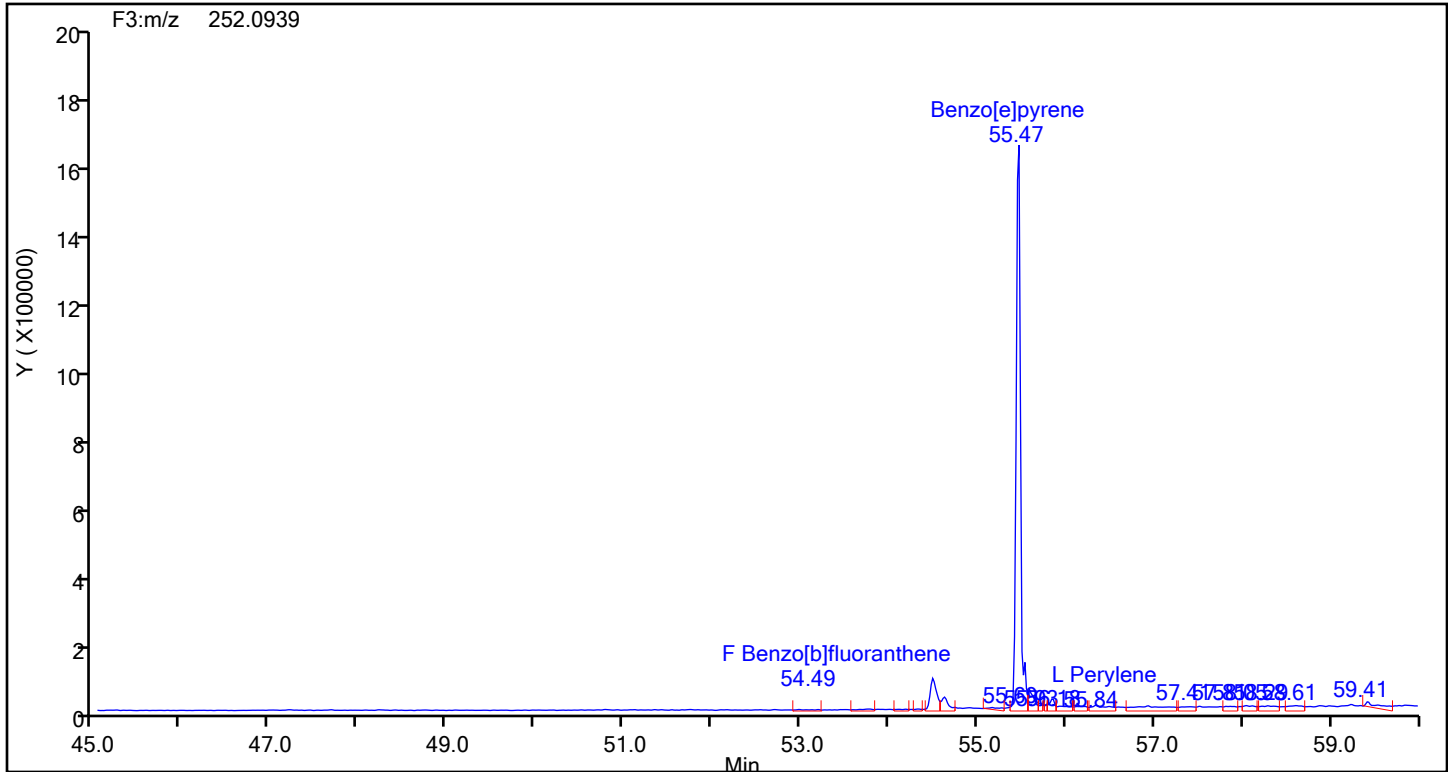
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

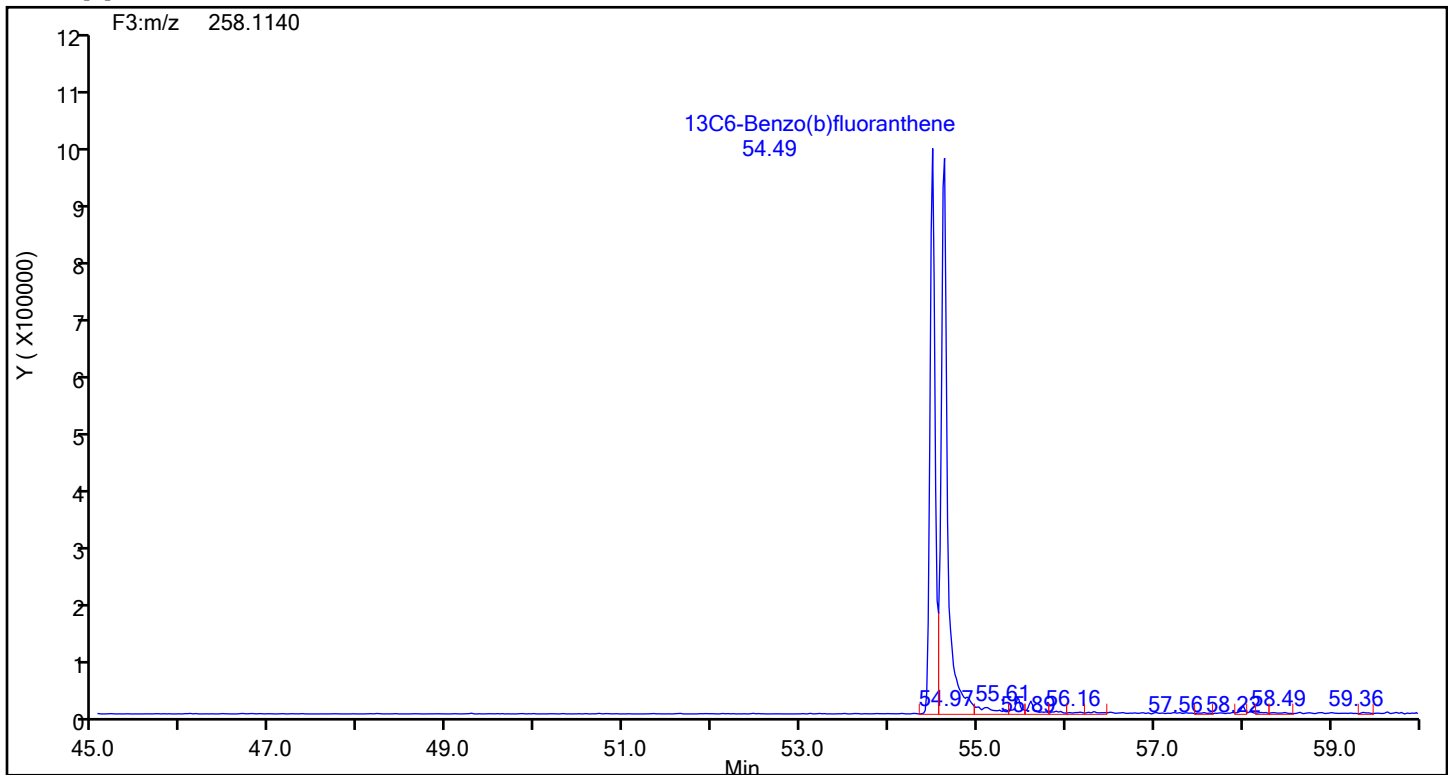
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



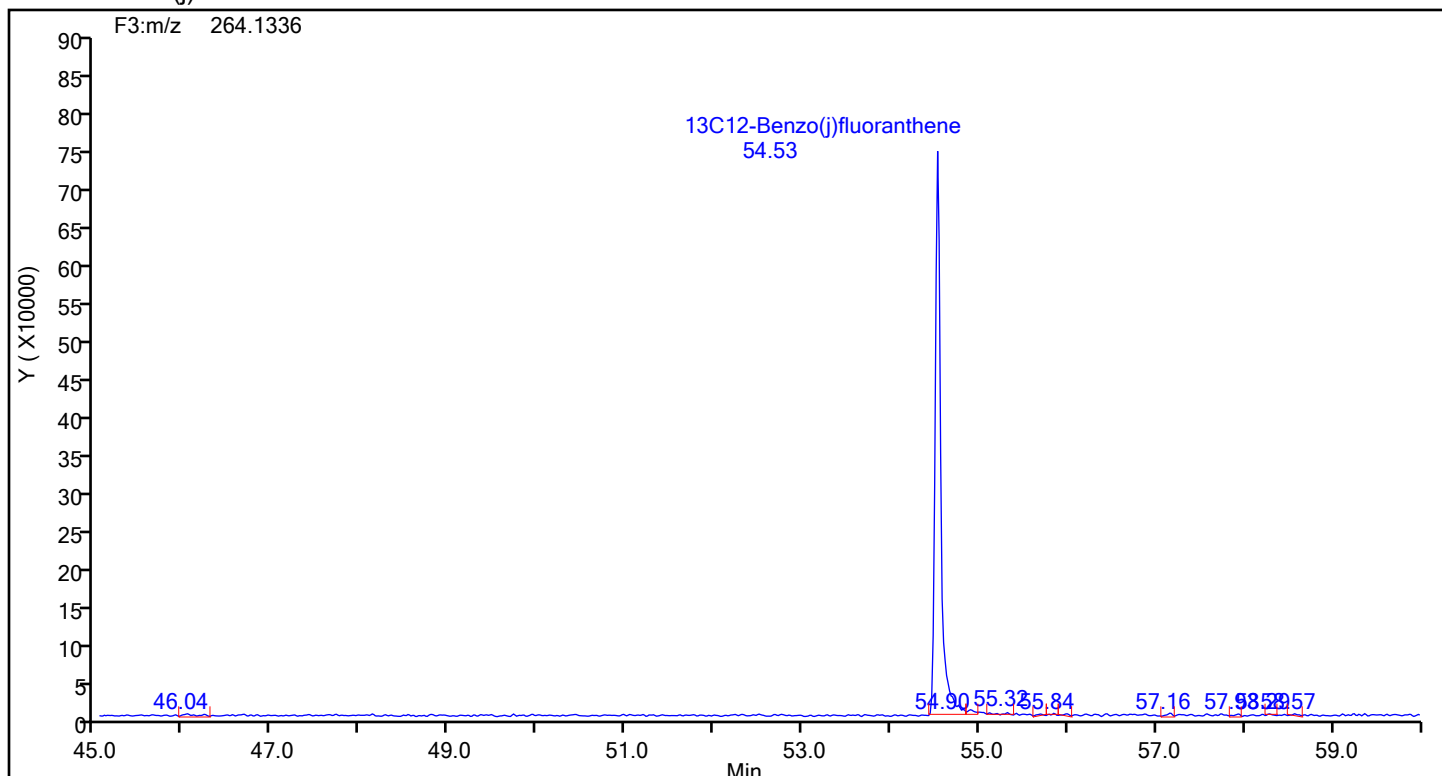
Benzo[b]fluoranthene Standards



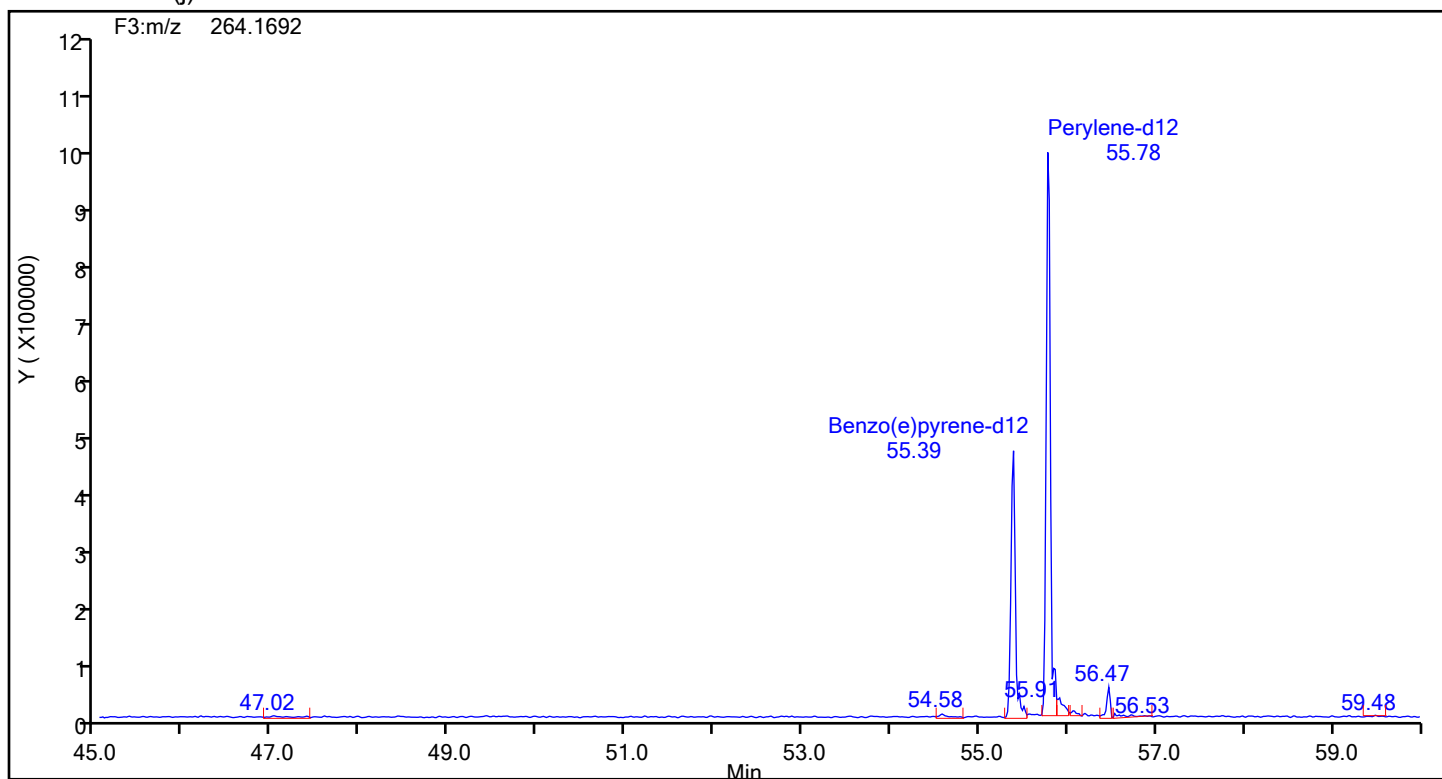
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

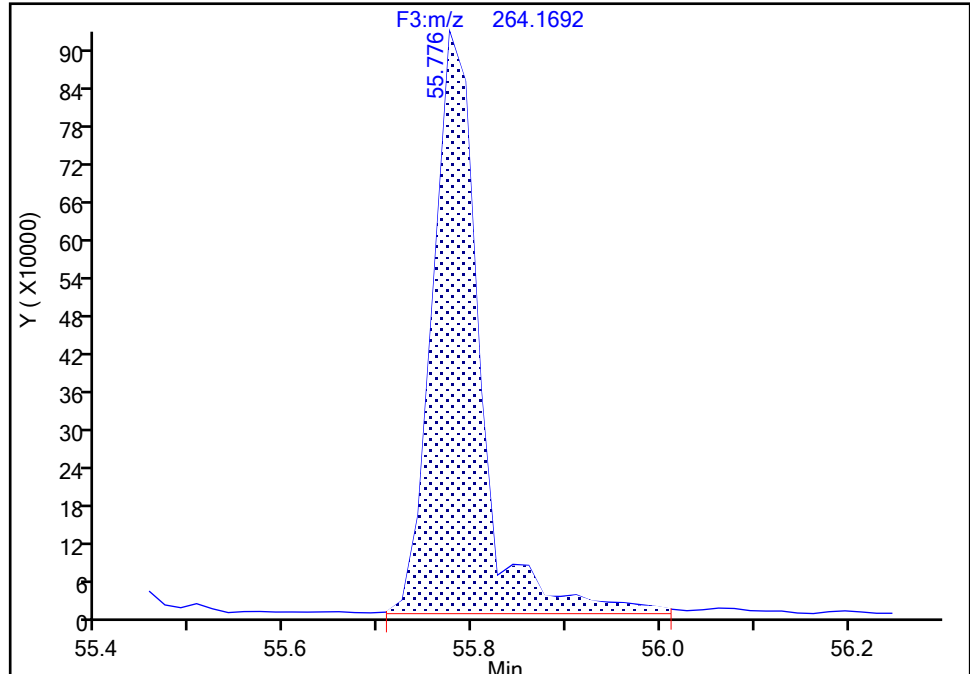
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

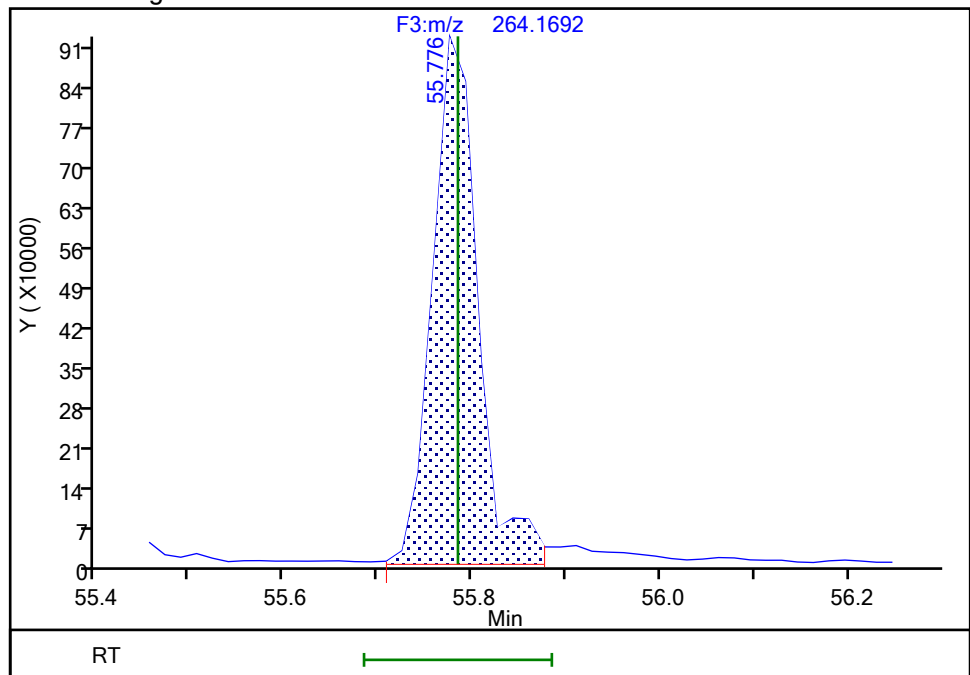
RT: 55.78
Area: 3268163
Amount: 8.906622
Amount Units: pg/ul

Processing Integration Results



RT: 55.78
Area: 3118320
Amount: 8.498260
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:25 -04:00:00 (UTC)

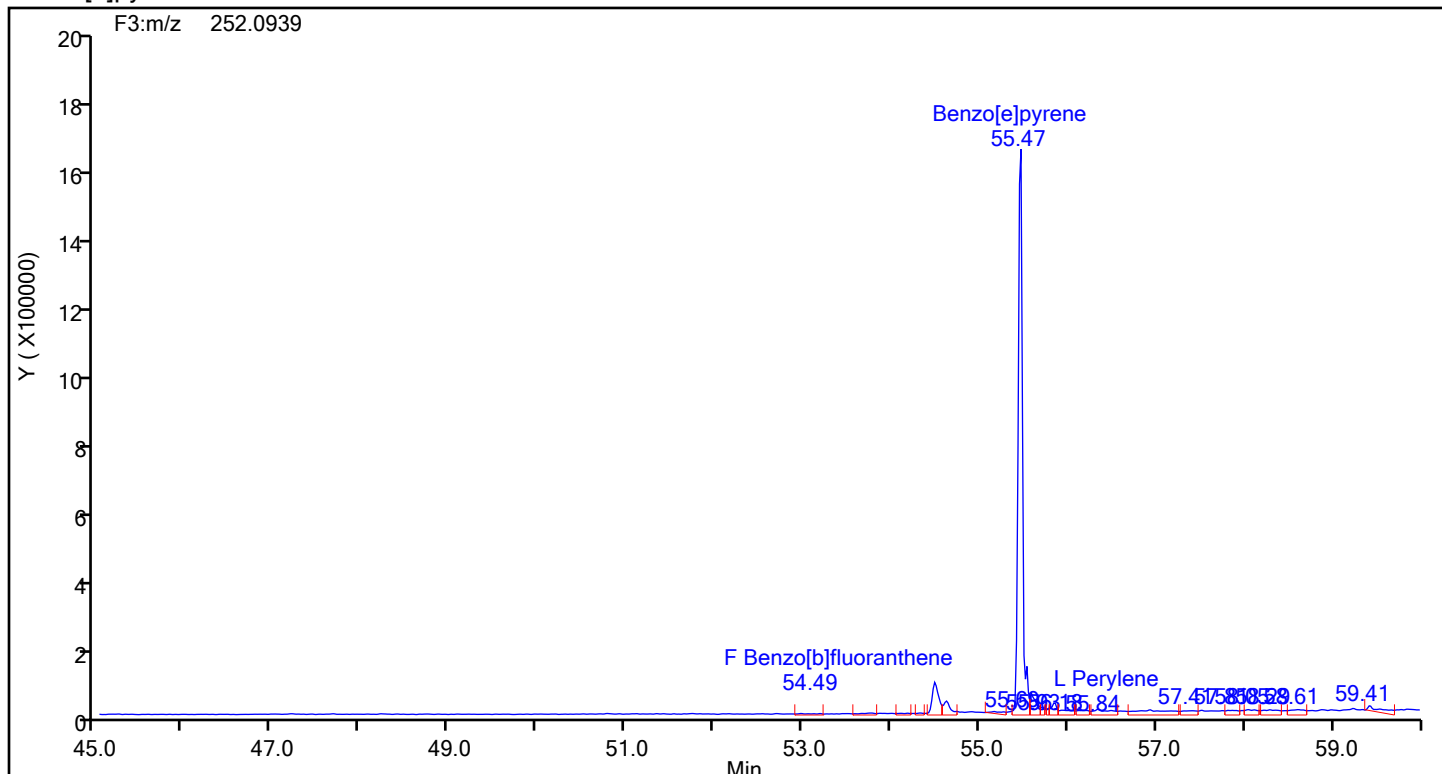
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

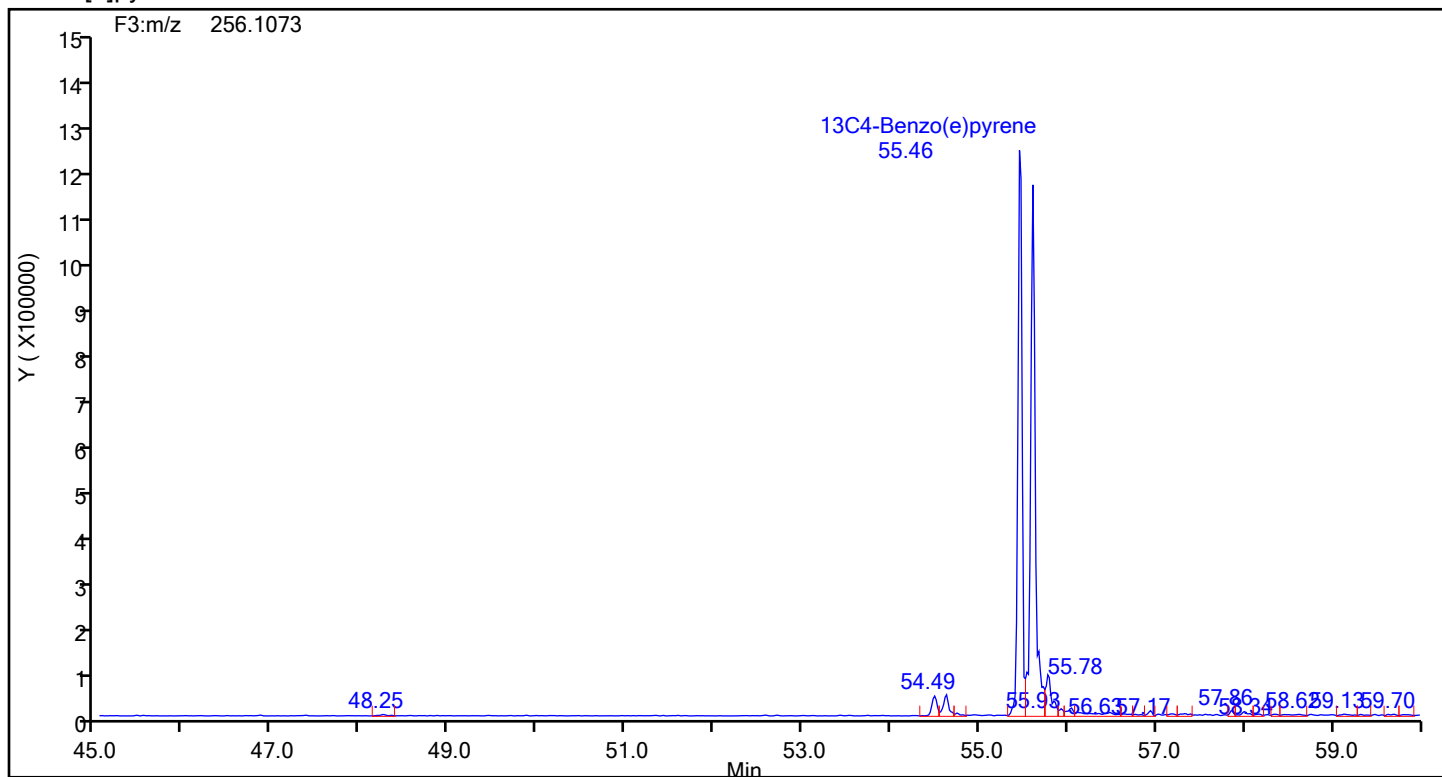
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

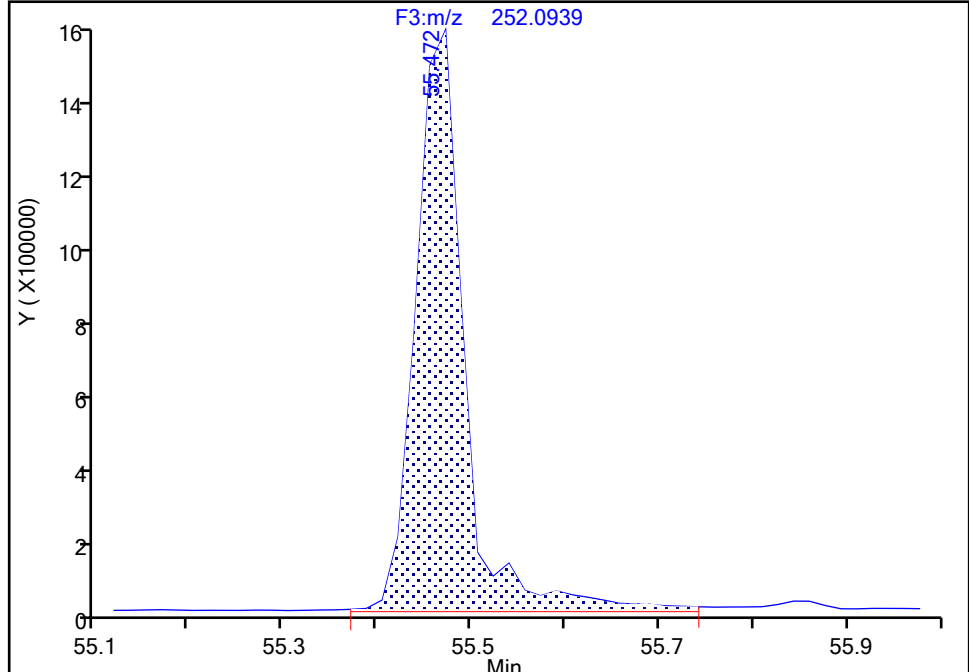
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

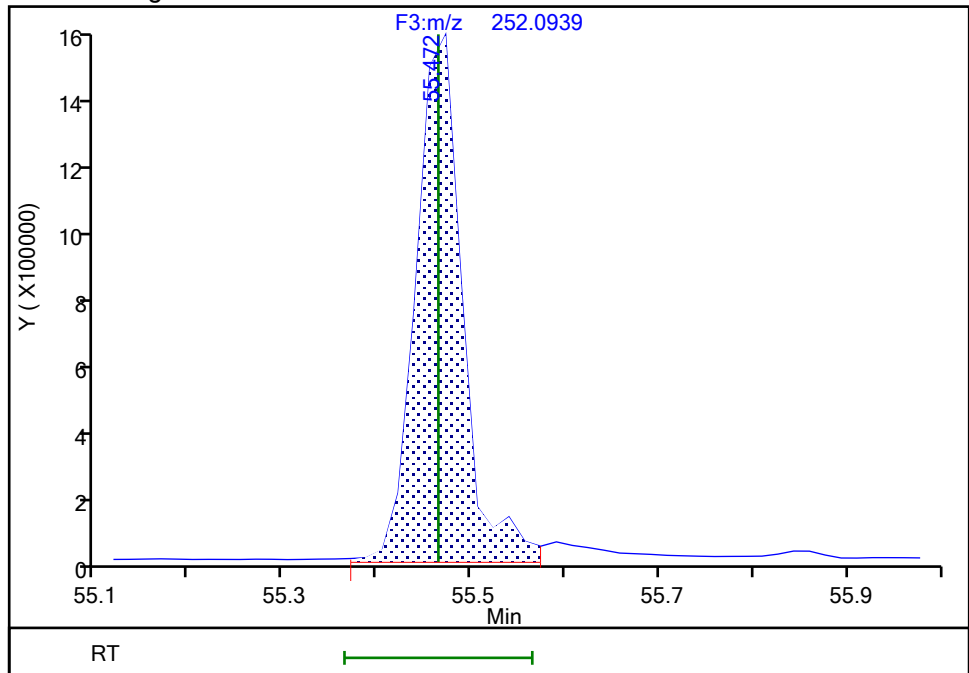
RT: 55.47
Area: 5793470
Amount: 14.806979
Amount Units: pg/ul

Processing Integration Results



RT: 55.47
Area: 5496131
Amount: 14.047039
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

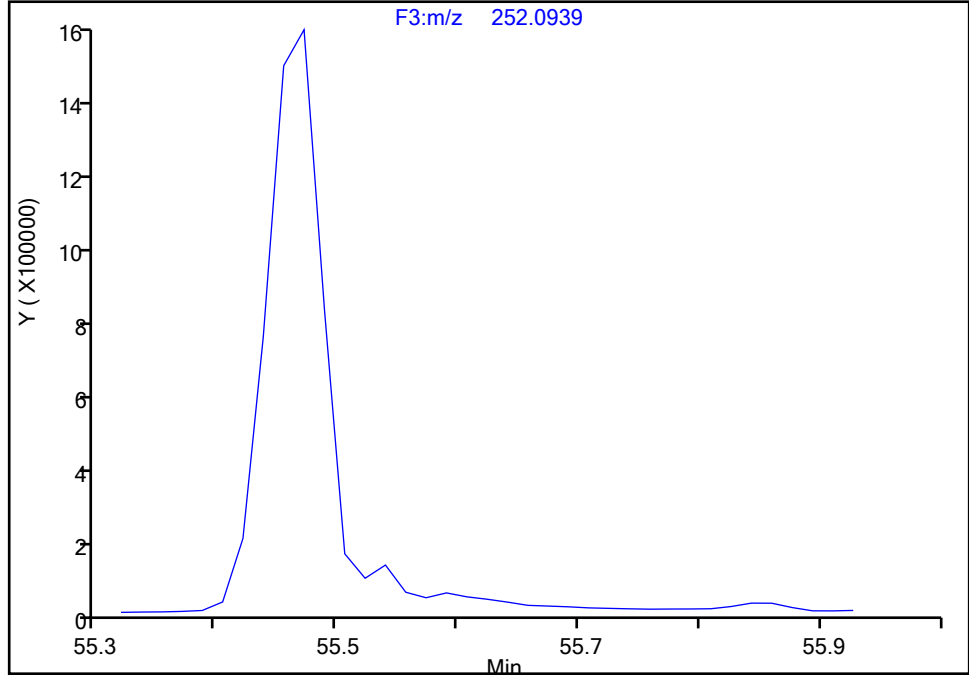
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

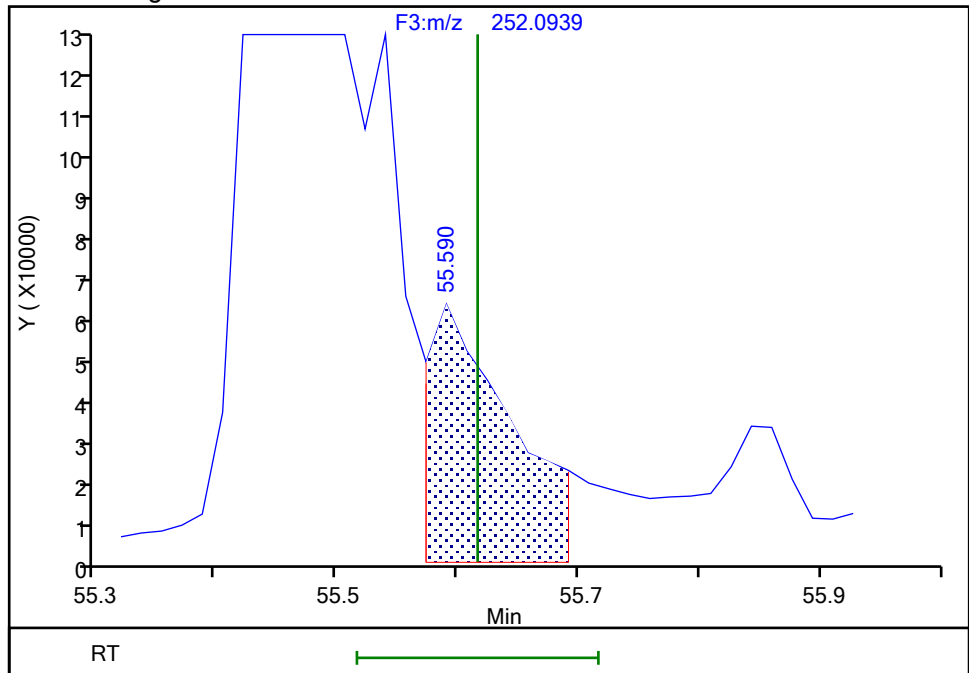
Not Detected
Expected RT: 55.62

Processing Integration Results



RT: 55.59
Area: 298182
Amount: 0.645144
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:57 -04:00:00 (UTC)

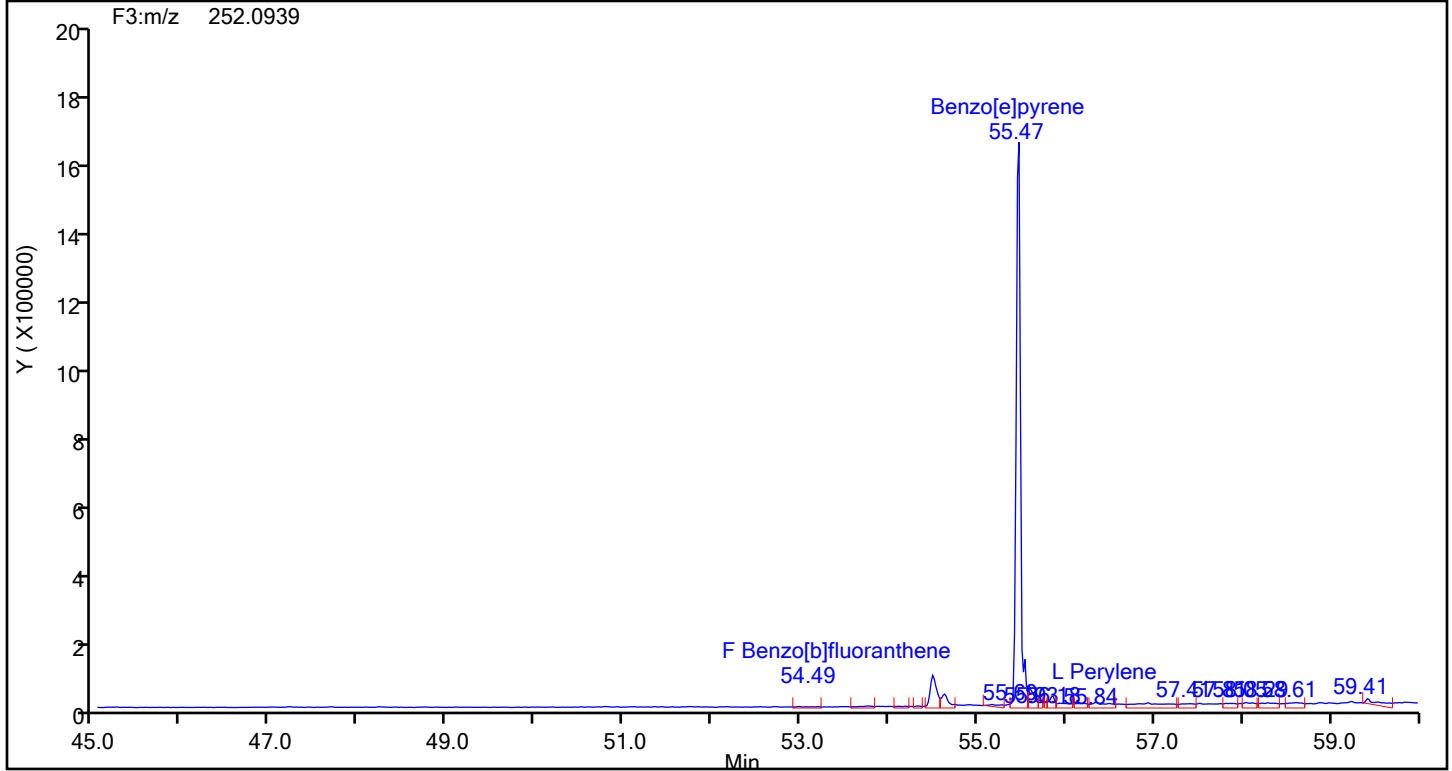
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

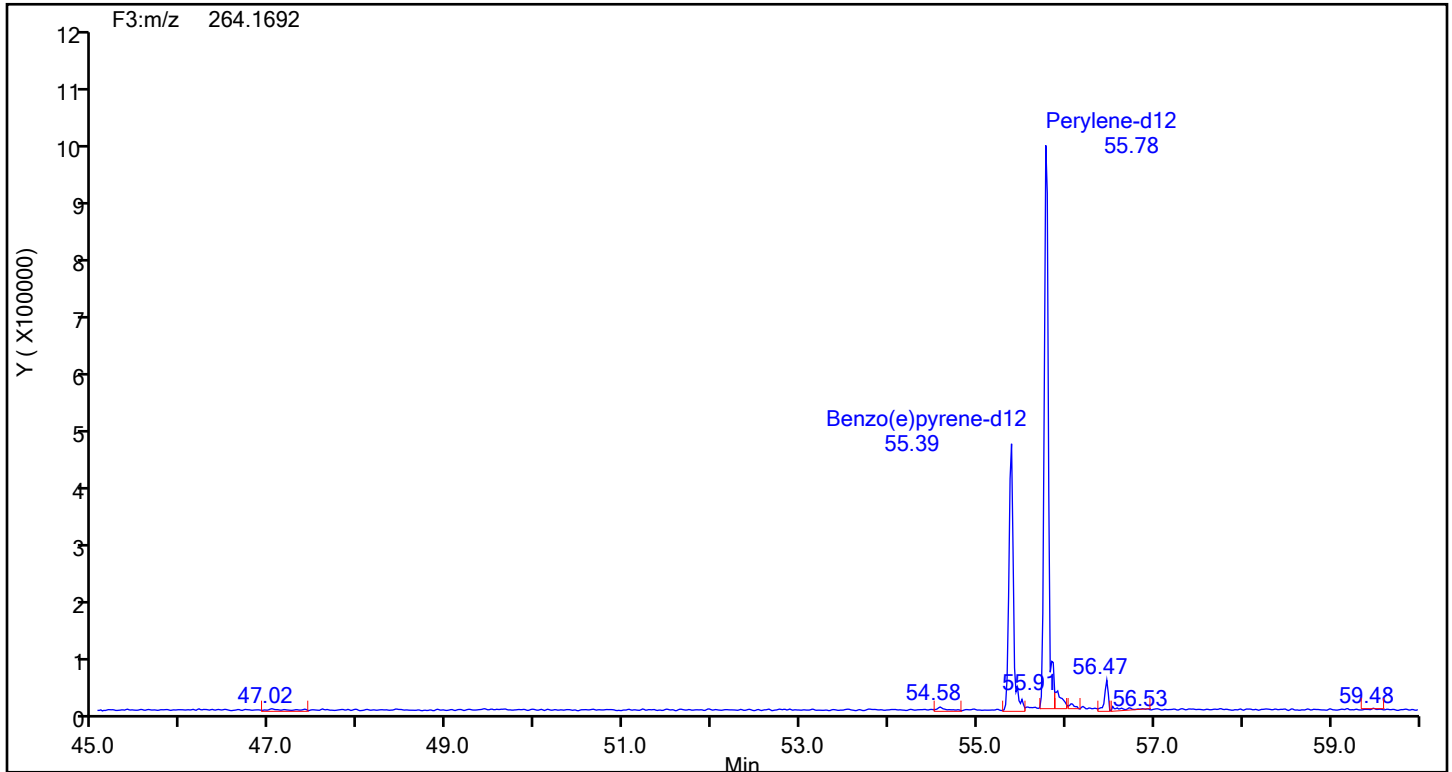
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

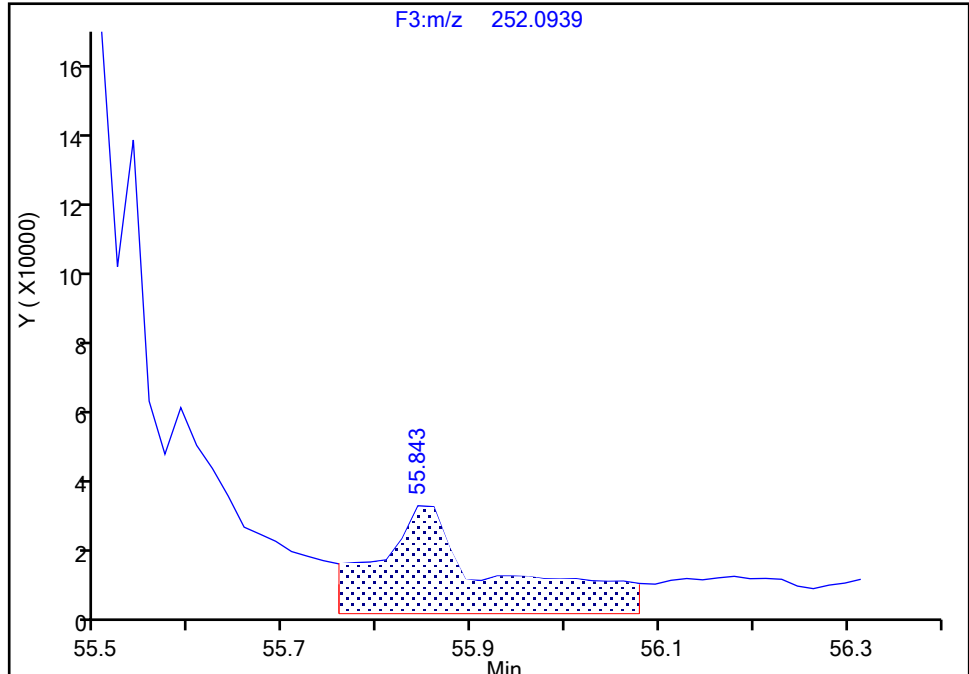
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

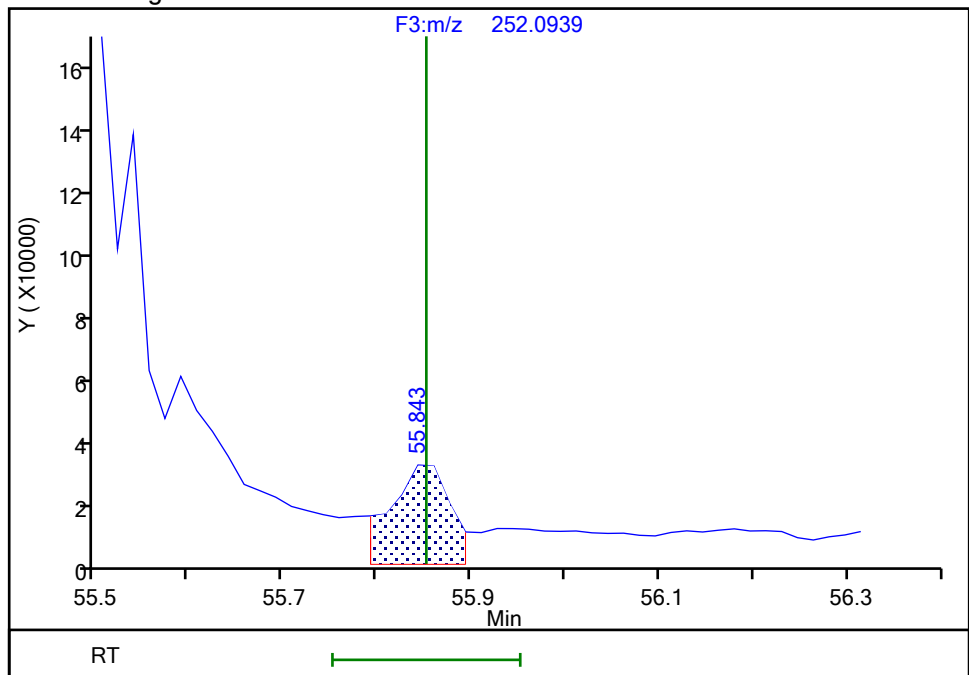
RT: 55.84
Area: 271116
Amount: 0.607707
Amount Units: pg/ul

Processing Integration Results



RT: 55.84
Area: 143117
Amount: 0.320797
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:16:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

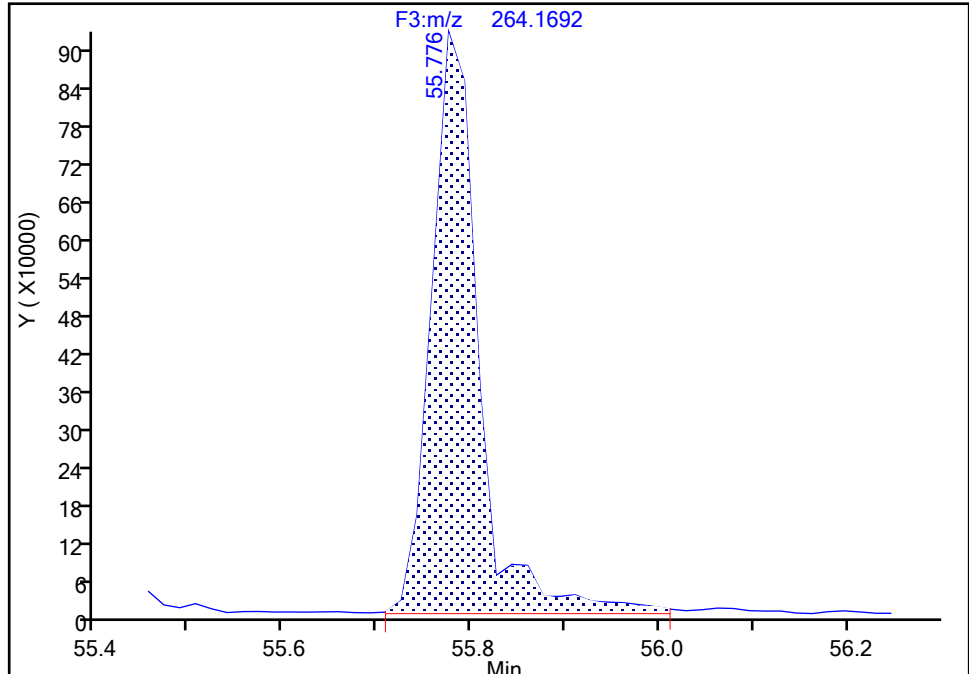
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

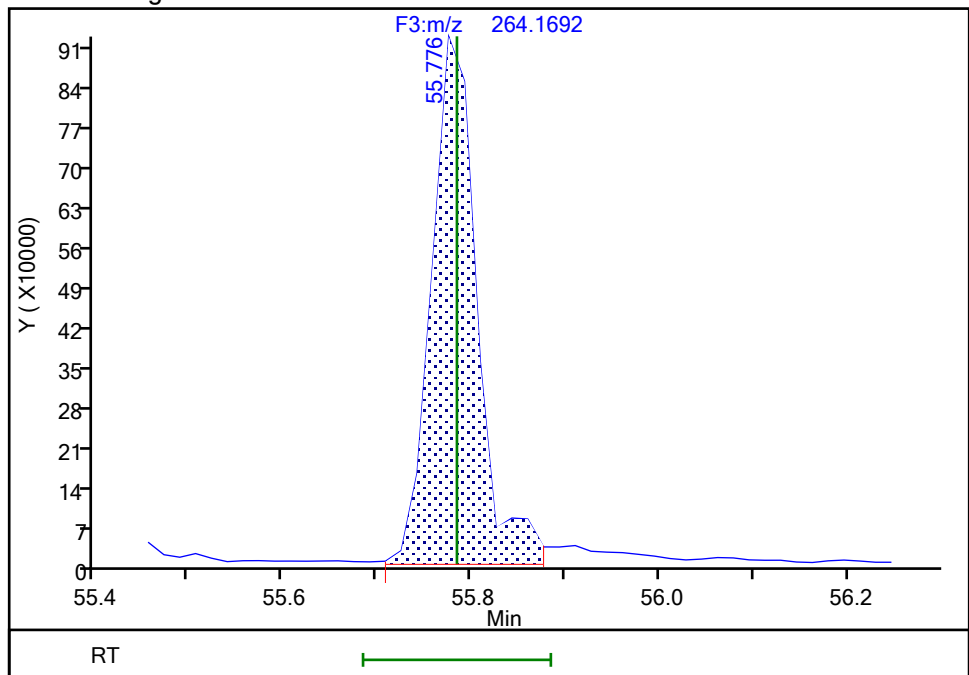
RT: 55.78
Area: 3268163
Amount: 8.906622
Amount Units: pg/ul

Processing Integration Results



RT: 55.78
Area: 3118320
Amount: 8.498260
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:25 -04:00:00 (UTC)

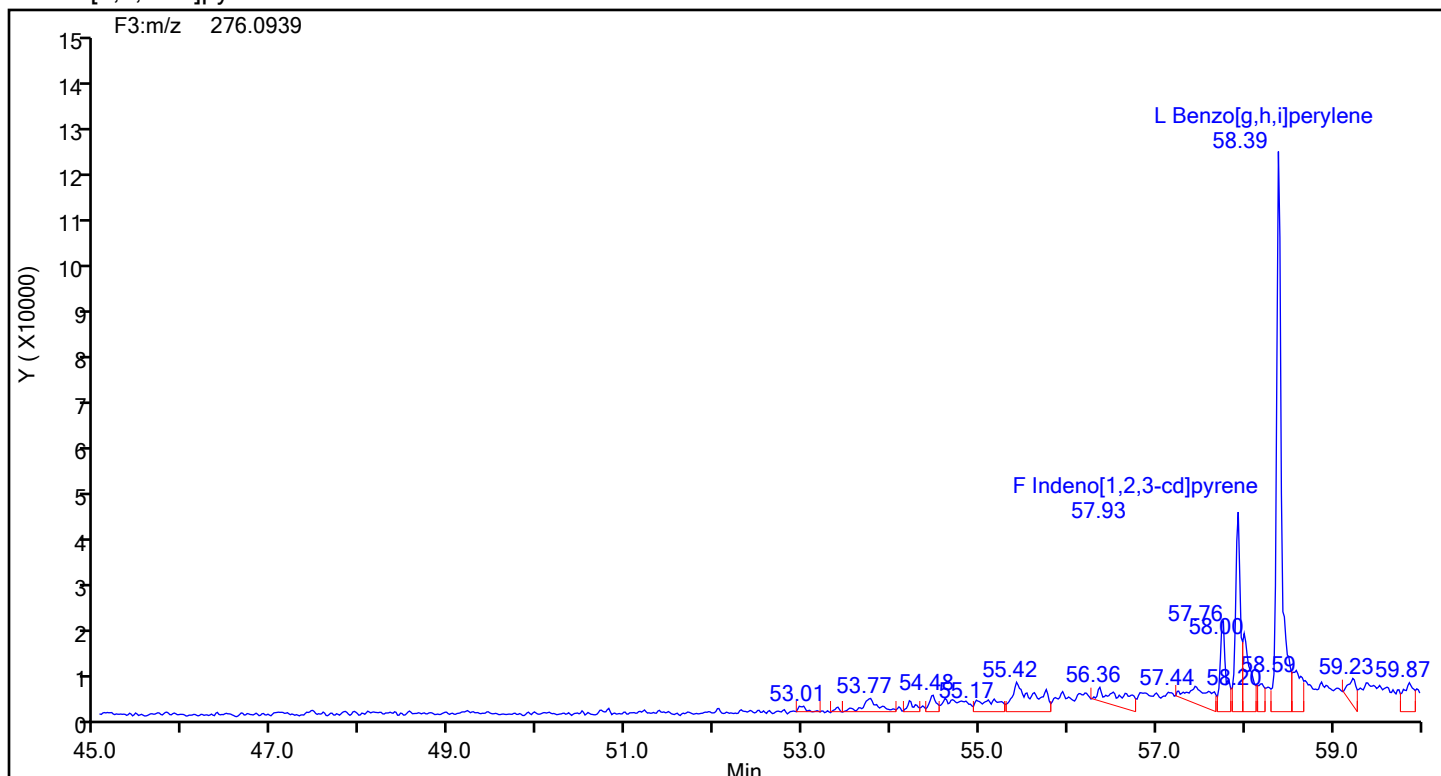
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

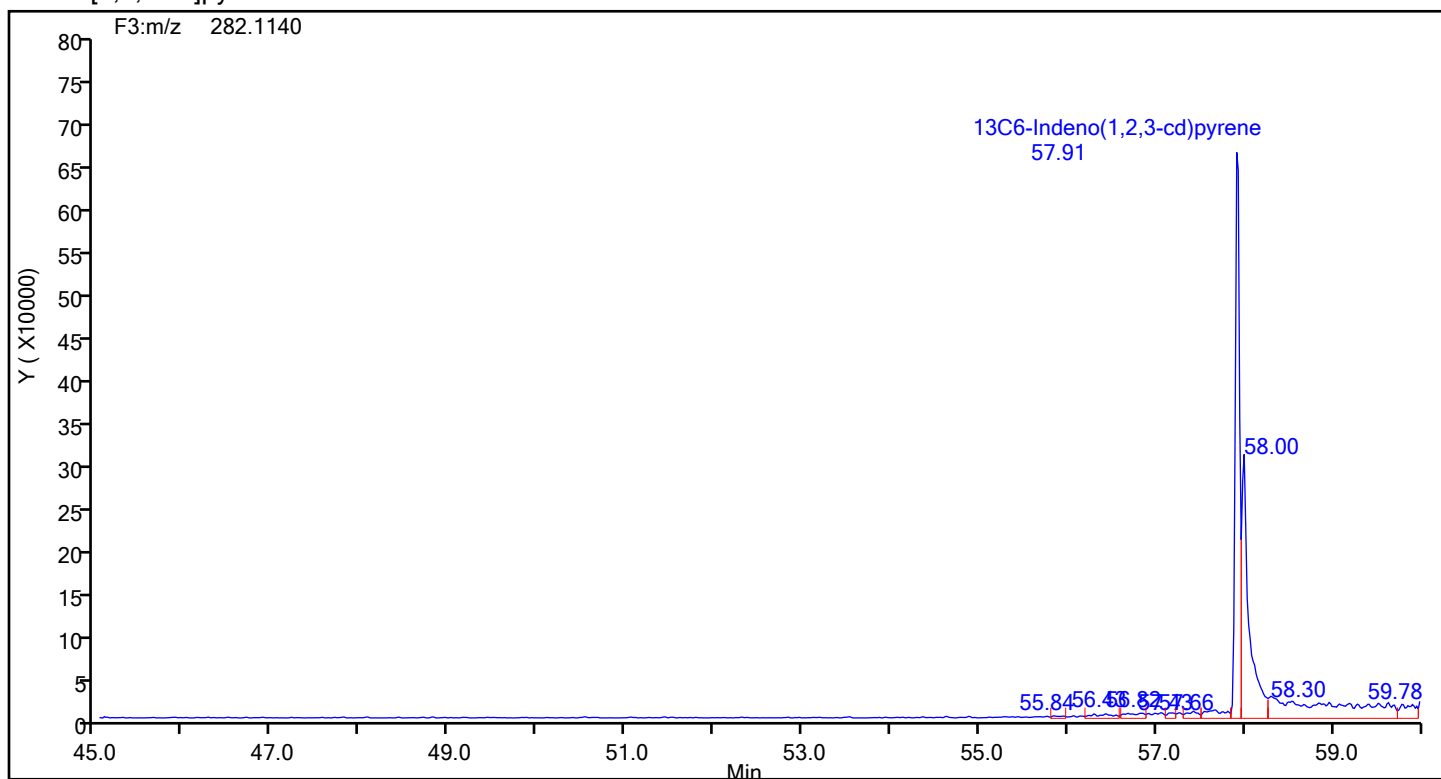
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

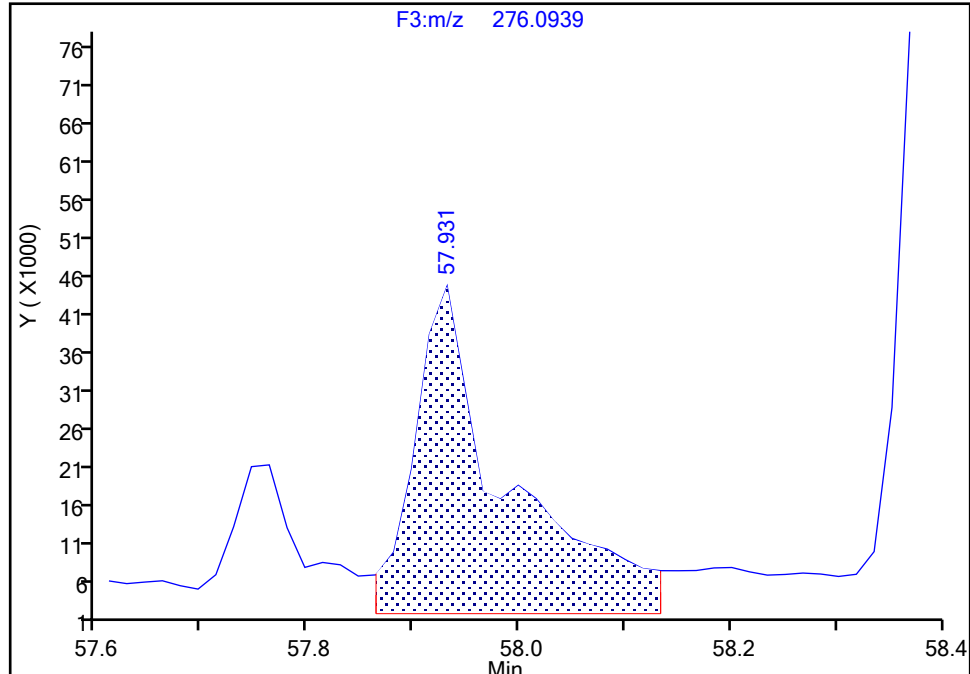
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

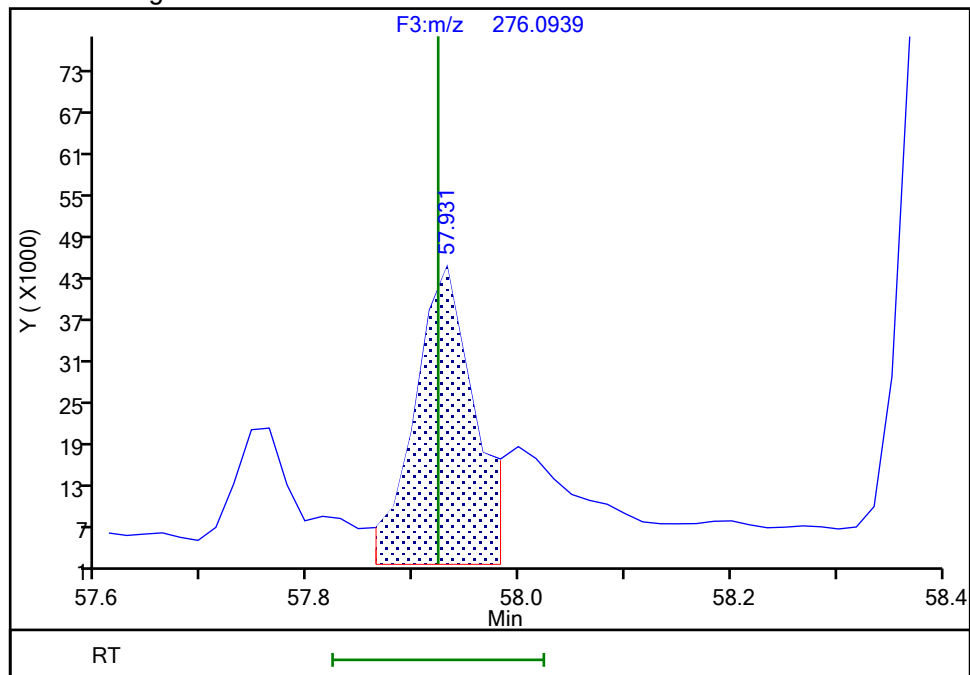
RT: 57.93
Area: 258741
Amount: 1.009421
Amount Units: pg/ul

Processing Integration Results



RT: 57.93
Area: 173128
Amount: 0.675421
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:18 -04:00:00 (UTC)

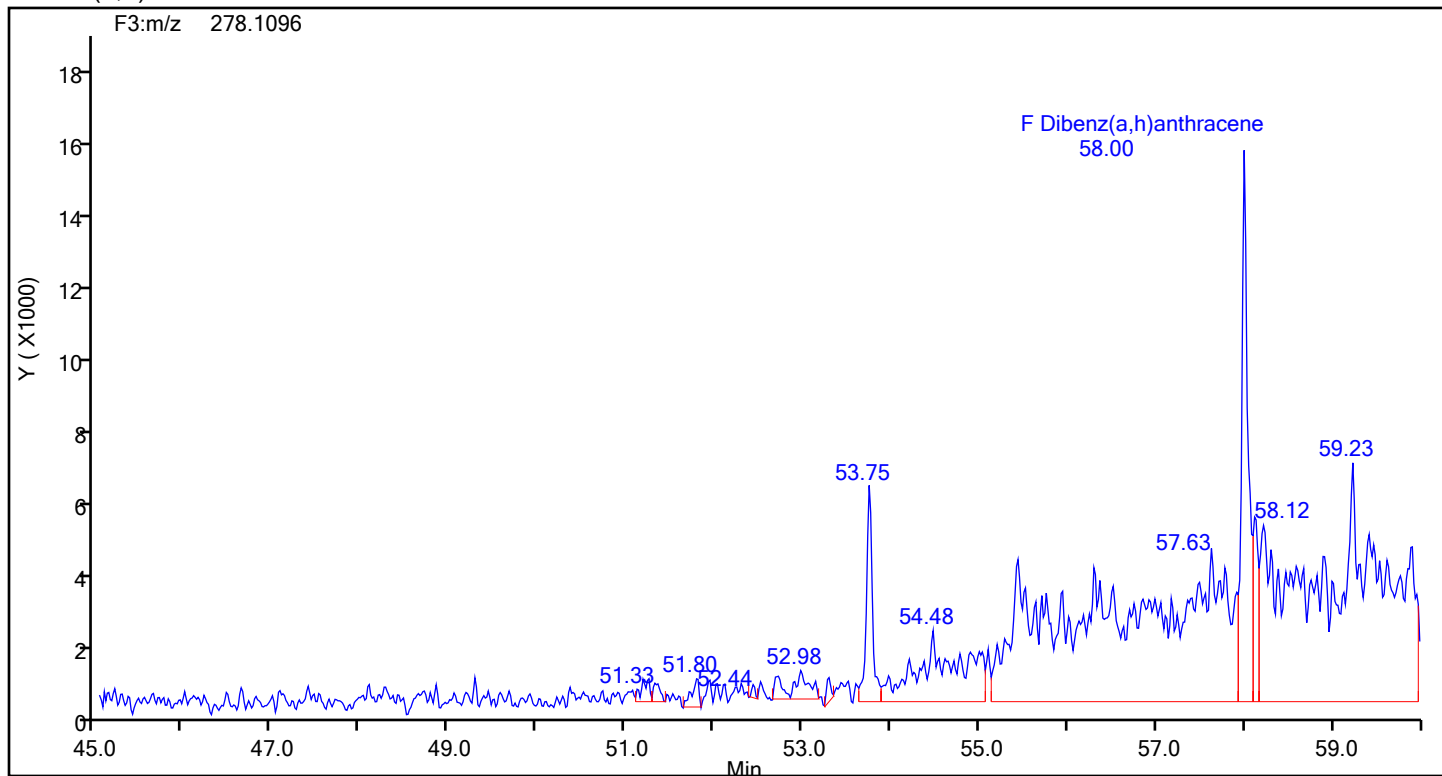
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

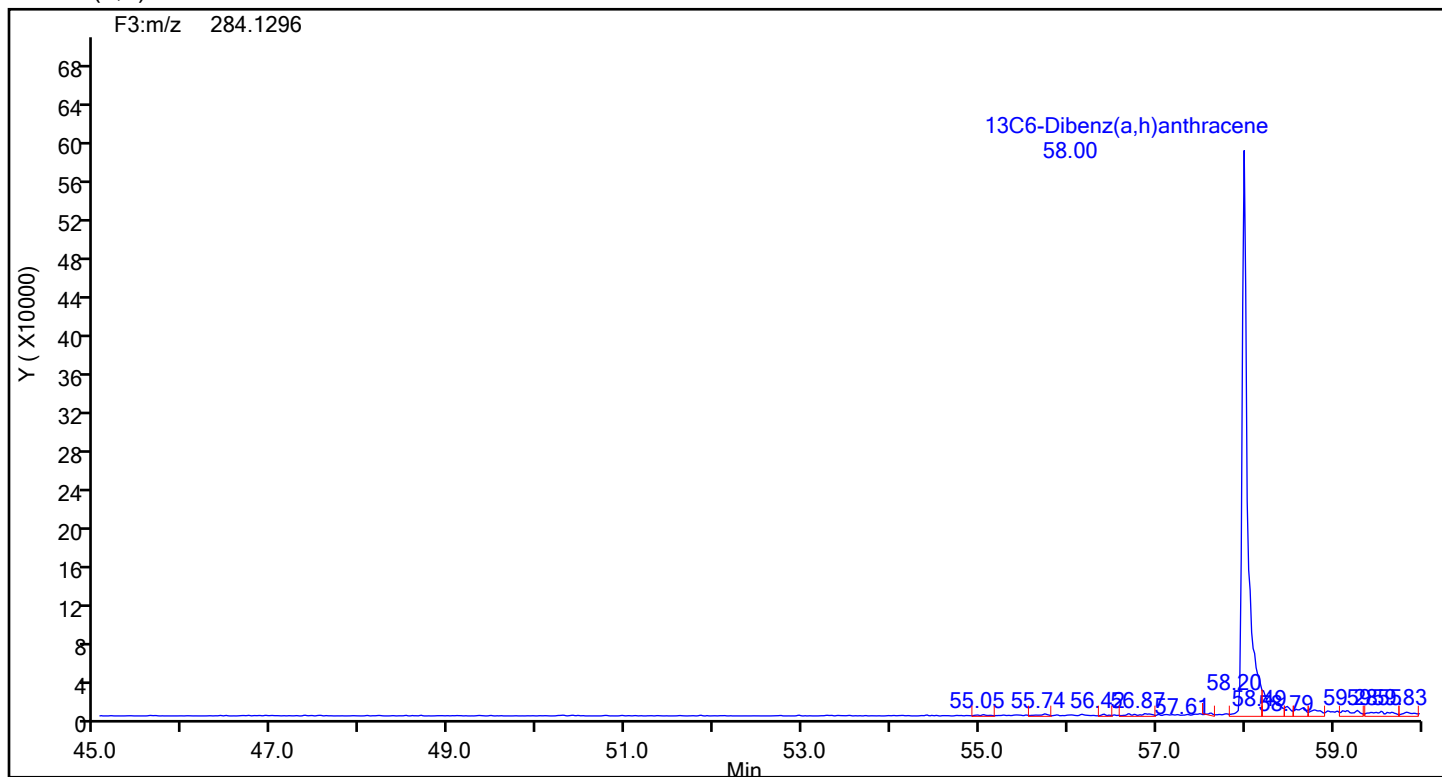
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

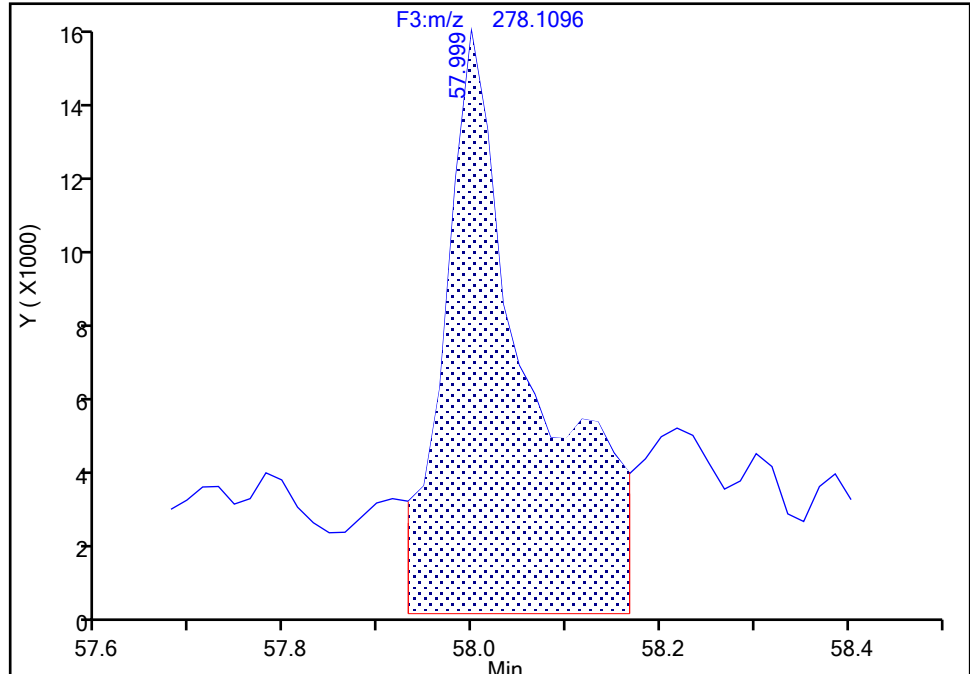
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

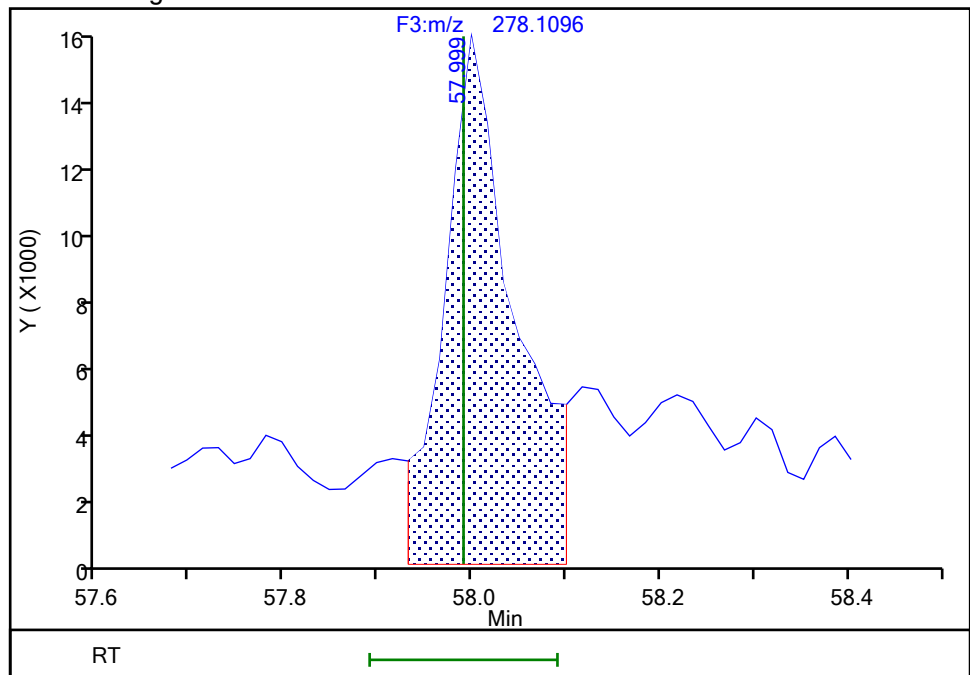
RT: 58.00
Area: 96636
Amount: 0.326250
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 81808
Amount: 0.276189
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

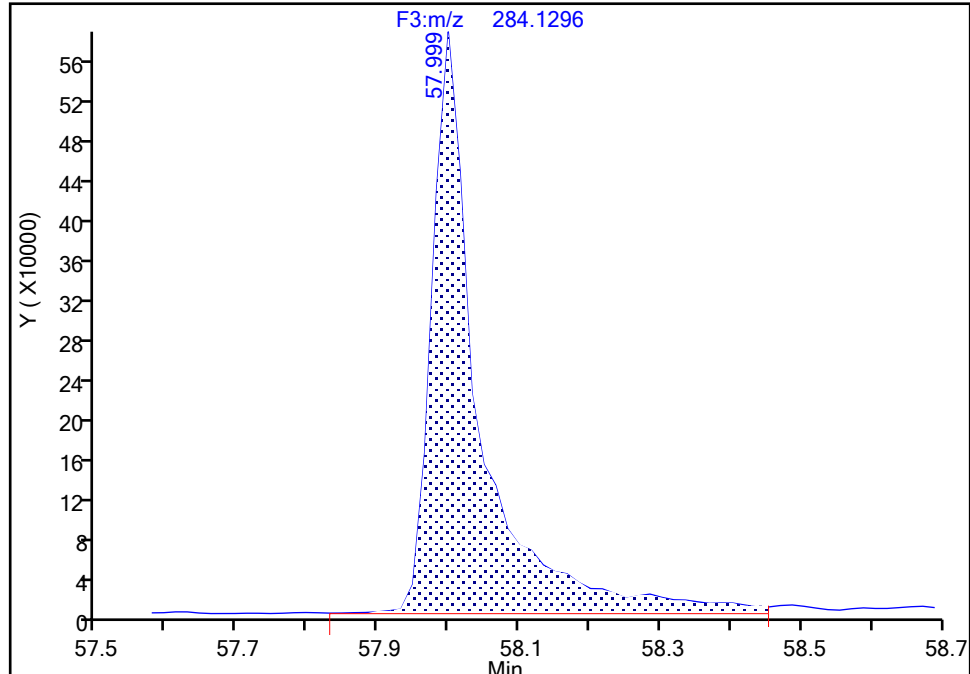
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

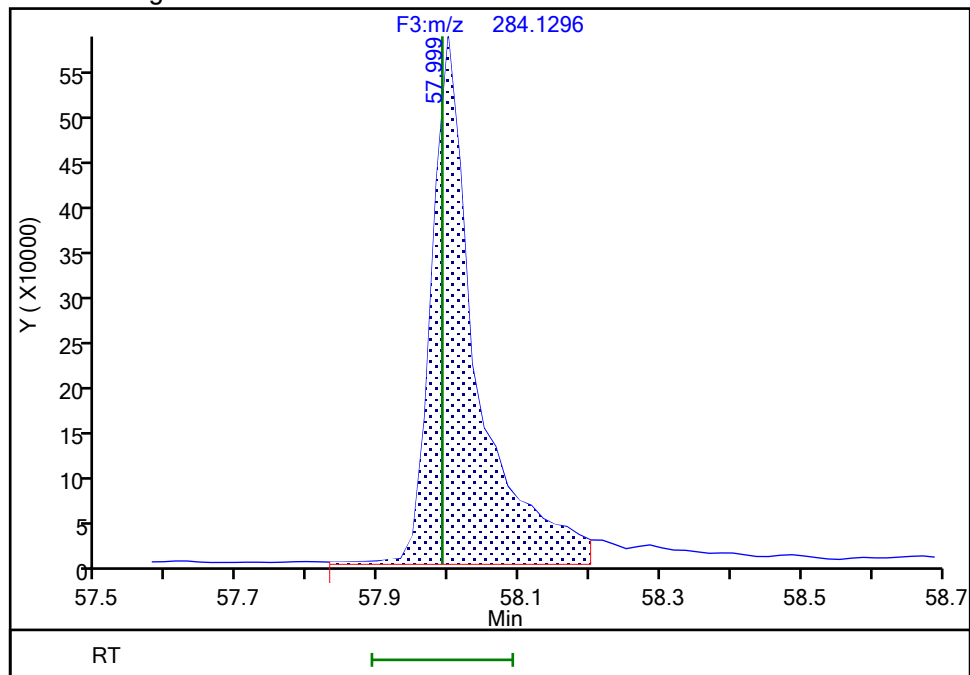
RT: 58.00
Area: 2836861
Amount: 8.730610
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 2618080
Amount: 8.057299
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:15:34 -04:00:00 (UTC)

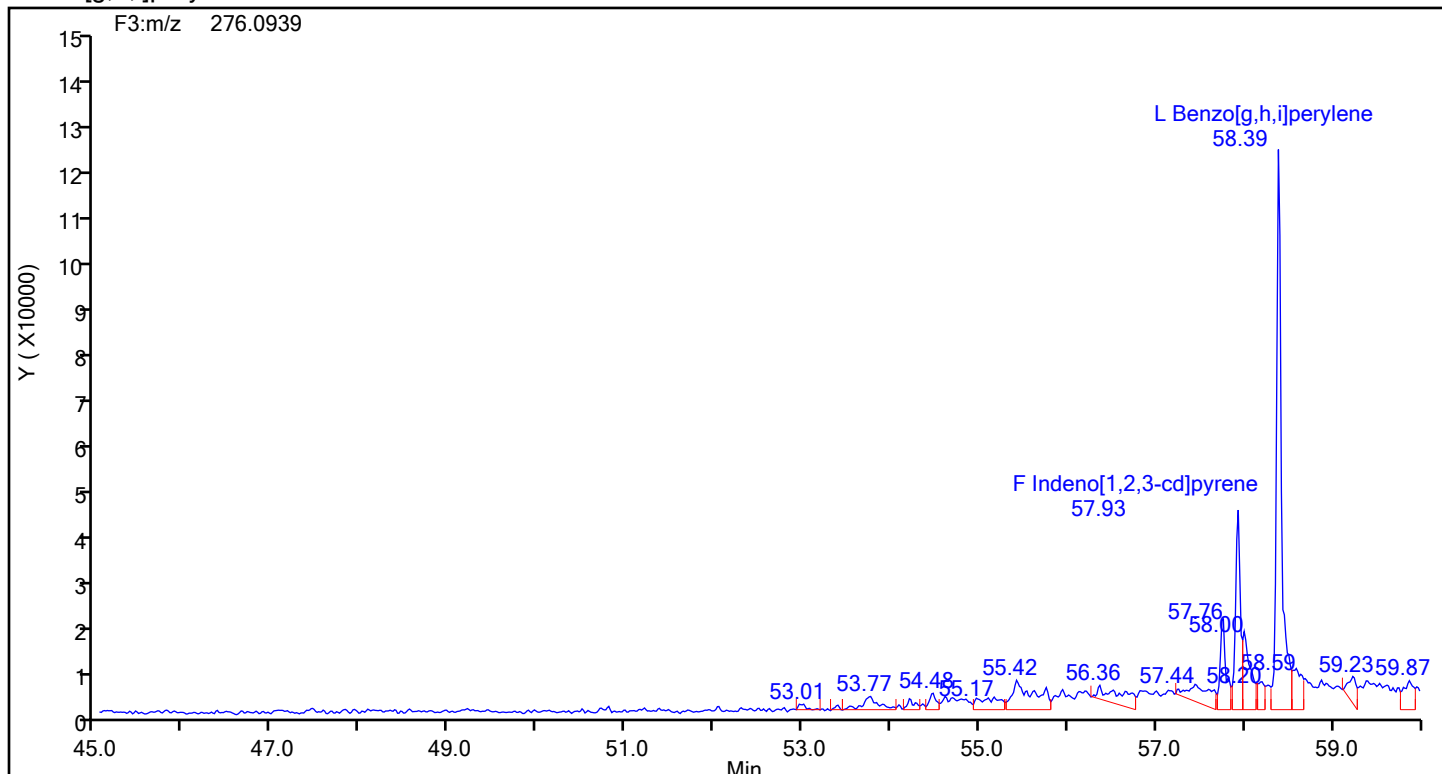
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

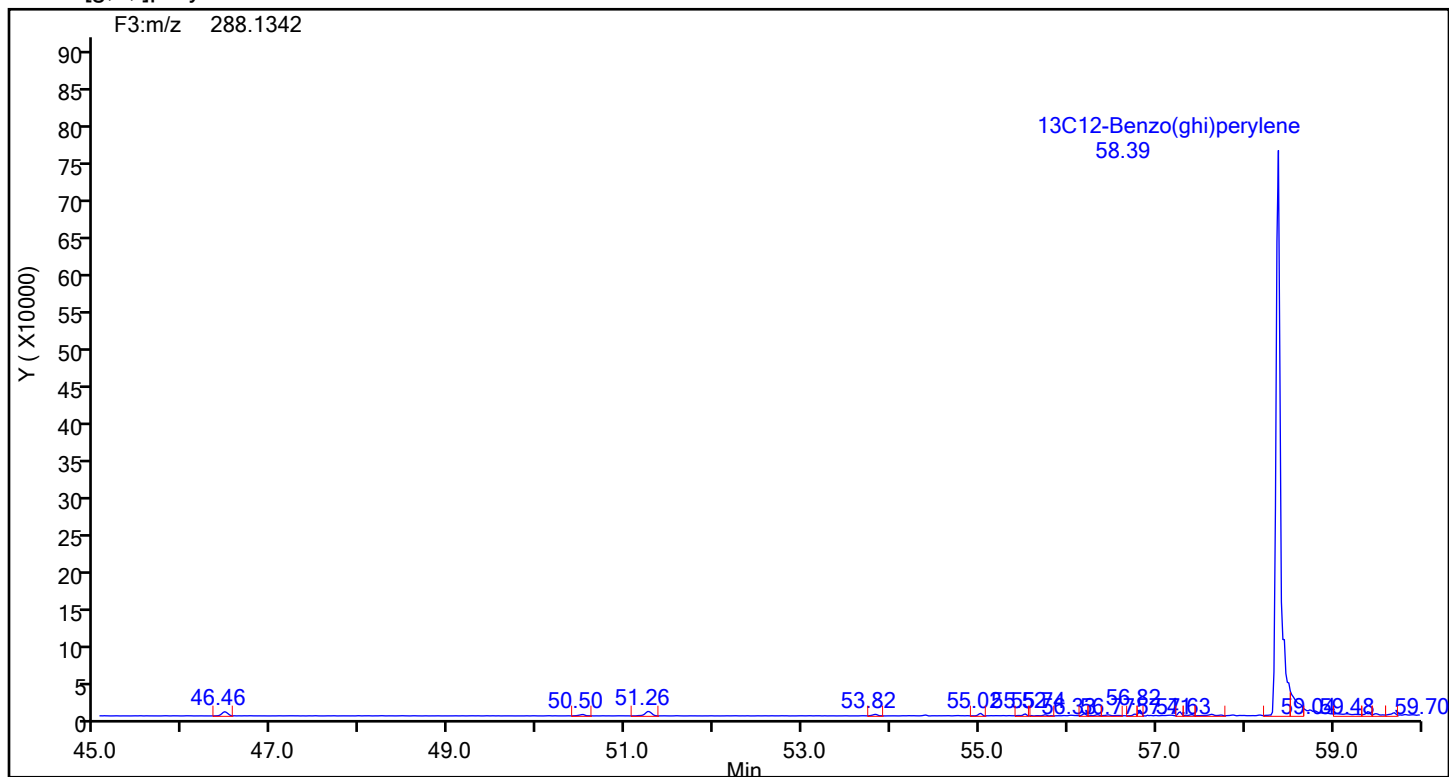
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88945 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



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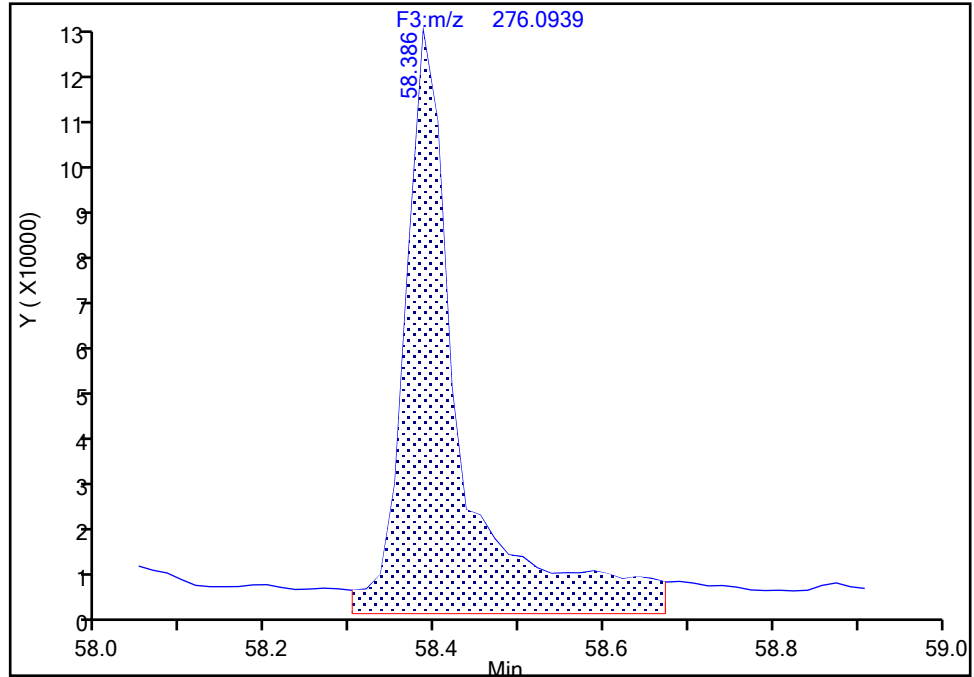
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

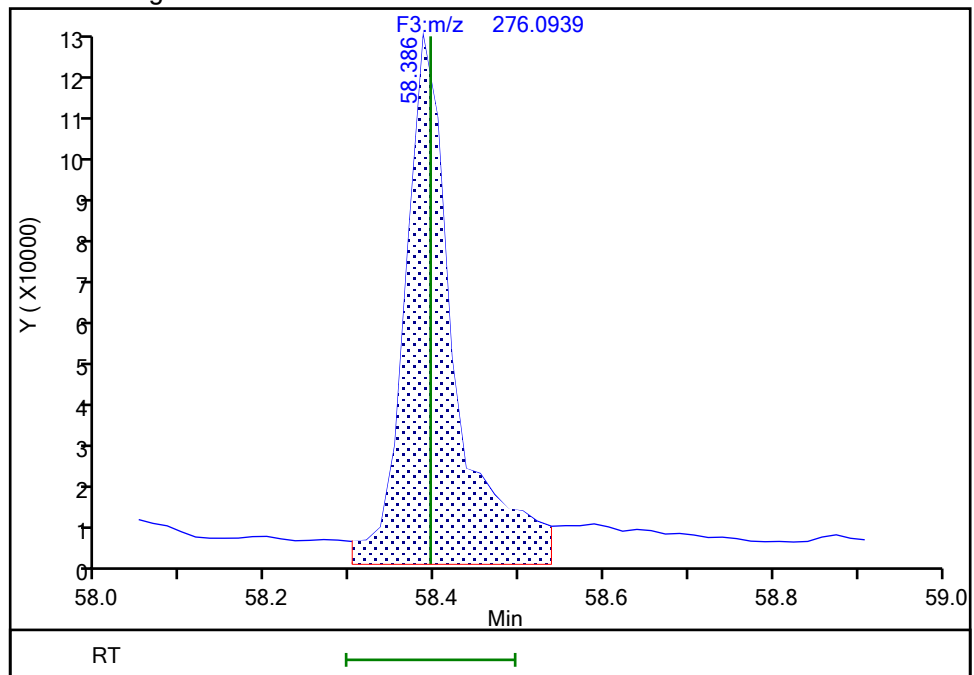
RT: 58.39
Area: 550230
Amount: 1.464567
Amount Units: pg/ul

Processing Integration Results



RT: 58.39
Area: 492362
Amount: 1.386000
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:23 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

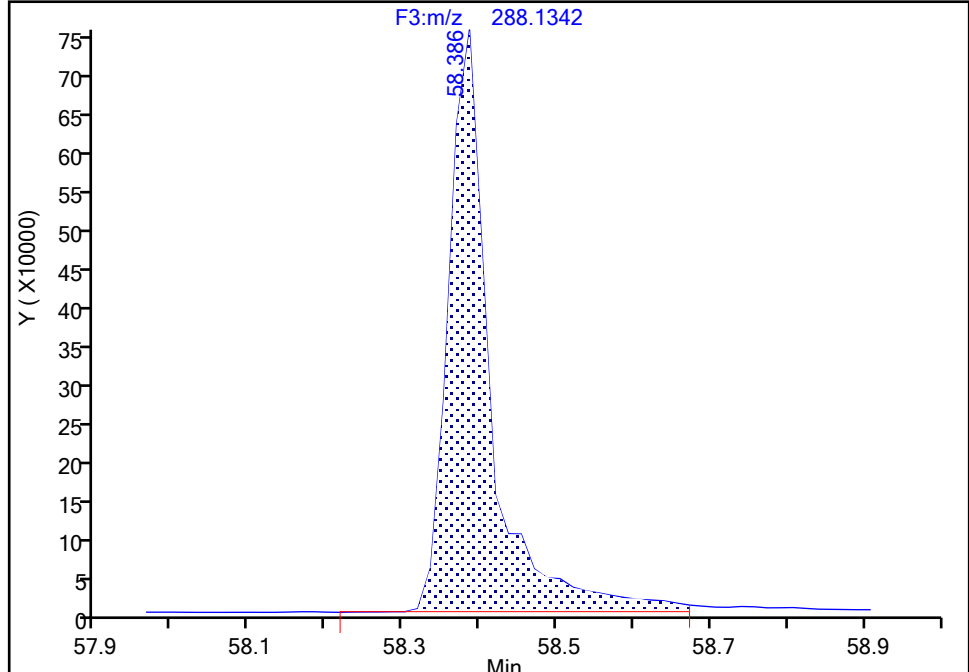
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Injection Date: 19-Jul-2024 02:02:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-1-C Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

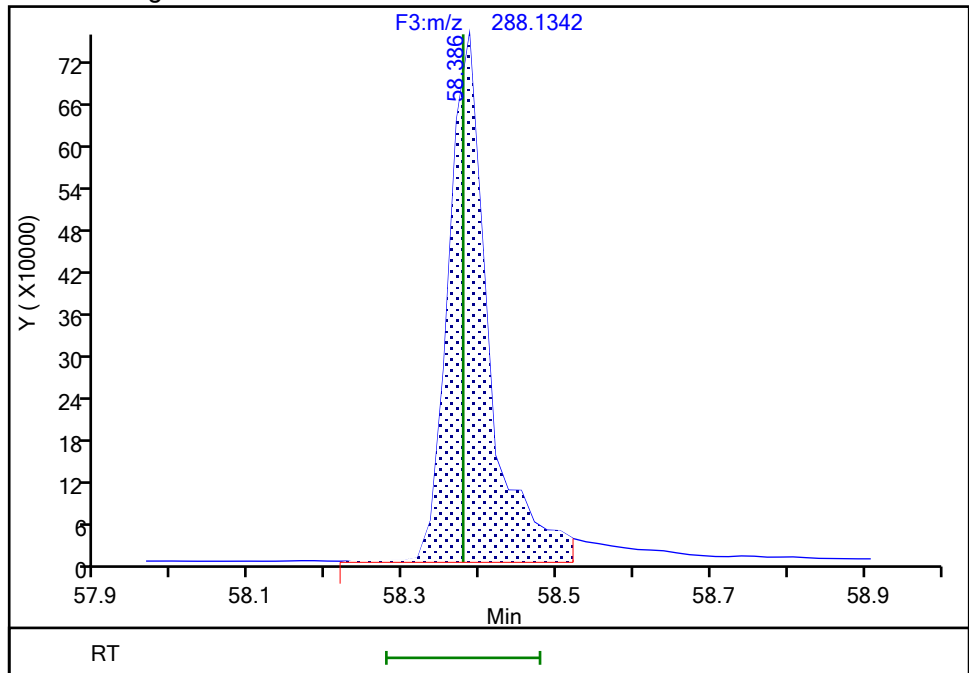
RT: 58.39
Area: 2926527
Amount: 7.455121
Amount Units: pg/ul

Processing Integration Results



RT: 58.39
Area: 2767190
Amount: 7.049221
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:17:46 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-37232-a-1-c.d
Lims ID: 140-37232-A-1-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 02:02:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033572-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 10:19:10 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:19:10

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.8185	81.85
13C6-Benzo(c)fluorene	100.0	9.61	96.06
13C12-Benzo(j)fluoranthene	100.0	8.06	80.61

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 2 - COMBINED</u>	Lab Sample ID: <u>140-37232-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-2-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 18:55</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 05:09</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	417	J B * +	750	750	0.518
91-57-6	2-Methylnaphthalene	153	J B	750	750	0.333
208-96-8	Acenaphthylene	2.31	J B	30.0	30.0	0.310
83-32-9	Acenaphthene	17.1	J B	300	300	0.448
86-73-7	Fluorene	19.2	J B	300	300	0.521
85-01-8	Phenanthrene	76.7	B	60.0	60.0	0.564
120-12-7	Anthracene	3.50	J B	300	300	0.550
206-44-0	Fluoranthene	57.2	J B	60.0	60.0	0.183
129-00-0	Pyrene	97.2	B	60.0	60.0	0.187
56-55-3	Benzo[a]anthracene	7.76	J B	60.0	60.0	0.143
218-01-9	Chrysene	21.1	J B	60.0	60.0	0.134
205-99-2	Benzo[b]fluoranthene	18.7	J B	300	300	0.0865
207-08-9	Benzo[k]fluoranthene	5.47	J B	60.0	60.0	0.0786
192-97-2	Benzo[e]pyrene	68.9	B	60.0	60.0	0.0682
50-32-8	Benzo[a]pyrene	5.64	J B	30.0	30.0	0.0666
198-55-0	Perylene	1.28	J B	30.0	30.0	0.0618
193-39-5	Indeno[1,2,3-cd]pyrene	14.6	J B	30.0	30.0	0.0741
53-70-3	Dibenz(a,h)anthracene	5.39	J B	60.0	60.0	0.0370
191-24-2	Benzo[g,h,i]perylene	67.2	B	60.0	60.0	0.0574

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 2 - COMBINED</u>	Lab Sample ID: <u>140-37232-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-2-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 18:55</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 05:09</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	64		20-130
STL03357	13C6-2-Methylnaphthalene	68		20-130
189811-56-1	13C6-Acenaphthylene	91		20-130
189811-57-2	13C6-Acenaphthene	81		20-130
STL00616	13C6-Fluorene	89		20-130
1397194-60-3	13C6-Fluoranthrene	91		20-130
1397214-90-2	13C3-Pyrene	84		20-130
917378-11-1	13C6-Benzo (a) anthracene	65		20-130
1397177-72-8	13C6-Chrysene	69		20-130
STL03358	13C6-Benzo (b) fluoranthene	76		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	80		20-130
STL03382	13C4-Benzo (e) pyrene	77		20-130
STL03359	13C4-Benzo (a) pyrene	87		20-130
1520-96-3	Perylene-d12	86		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	91		20-130
STL03360	13C6-Dibenz (a,h) anthracene	96		20-130
350820-11-0	13C12-Benzo (ghi) perylene	87		20-130
189811-60-7	13C6-Anthracene	83		20-130
1189955-53-0	13C6-Phenanthrene	69		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
 Lims ID: 140-37232-A-2-C
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
 Sample Type: Client
 Inject. Date: 20-Jul-2024 05:09:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Misc. Info.: 140-0033591-006
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jul-2024 11:25:06 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:25:06

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:27	3044938		3.3746	6.369	6.369	0.004290	0.004290	63.69	
Naphthalene	11:27	10906285		1.2893	27.8	27.8	0.0345	0.0345		M
D 13C6-2-Methylnaphthalene	13:47	1549528		1.6031	6.823	6.823	0.004640	0.004640	68.23	
2-Methylnaphthalene	13:47	2014736		1.2786	10.2	10.2	0.0222	0.0222		M
D 13C6-Acenaphthylene	16:38	2140404		1.6520	9.146	9.146	0.007483	0.007483	91.46	
Acenaphthylene	16:38	40821		2.3661	0.1540	0.1540	0.0207	0.0207		
* Acenaphthene-d10	17:12	708328		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:19	1119924		0.9792	8.074	8.074	0.008740	0.008740	80.74	
Acenaphthene	17:20	162062		1.2697	1.140	1.140	0.0299	0.0299		
D 13C6-Fluorene	19:35	1119447		0.8898	8.880	8.880	0.008074	0.008074	88.80	
Fluorene	19:35	179744		1.2532	1.281	1.281	0.0347	0.0347		M
D 13C6-Phenanthrene	24:56	1472658		0.5724	6.939	6.939	0.005330	0.005330	69.39	
Phenanthrene	24:57	832076		1.1044	5.116	5.116	0.0376	0.0376		
\$ Anthracin-d10	25:09	123701		0.4257	0.7837	0.7837	0.002377	0.002377	78.37	
D 13C6-Anthracene	25:16	1387383		0.4523	8.272	8.272	0.006745	0.006745	82.72	
Anthracene	25:16	44014		1.3586	0.2335	0.2335	0.0367	0.0367		
D 13C6-Fluoranthrene	33:40	4036394		1.1994	9.077	9.077	0.0129	0.0129	90.77	
Fluoranthrene	33:40	1771183		1.1513	3.811	3.811	0.0122	0.0122		
* Pyrene-d10	35:13	1853874		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:21	4203897		1.3512	8.391	8.391	0.007713	0.007713	83.91	
Pyrene	35:21	2901692		1.0652	6.480	6.480	0.0125	0.0125		
\$ 13C6-Benzo(c)fluorene	39:03	1892361		0.5136	9.938	9.938	0.007941	0.007941	99.38	
D 13C6-Benzo(a)anthracene	45:52	3212300		1.5189	6.468	6.468	0.005327	0.005327	64.68	
Benzo[a]anthracene	45:52	161898		0.9739	0.5175	0.5175	0.009506	0.009506		Ma
D 13C6-Chrysene	46:09	3676144		1.6287	6.903	6.903	0.004967	0.004967	69.03	M
Chrysene	46:09	506368		0.9815	1.403	1.403	0.008953	0.008953		M
D 13C6-Benzo(b)fluoranthene	54:30	3643497		1.4621	7.621	7.621	0.002249	0.002249	76.21	
Benzo[b]fluoranthene	54:31	512005		1.1249	1.249	1.249	0.005769	0.005769		
\$ 13C12-Benzo(j)fluoranthene	54:32	3723227		1.3558	8.398	8.398	0.009625	0.009625	83.98	
D 13C6-Benzo(k)fluoranthene	54:38	4561990		1.7507	7.969	7.969	0.001878	0.001878	79.69	M
Benzo[k]fluoranthene	54:38	187447		1.1271	0.3646	0.3646	0.005241	0.005241		M
* Benzo(e)pyrene-d12	55:23	1634942		5.7E+04	5.000	5.000				
Benzo[e]pyrene	55:28	1889391		1.0013	4.593	4.593	0.004548	0.004548		
D 13C4-Benzo(e)pyrene	55:28	4108511		1.6368	7.676	7.676	0.003999	0.003999	76.76	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:36	4416931		1.5508	8.710	8.710	0.004221	0.004221	87.10	
Benzo[a]pyrene	55:36	184917		1.1130	0.3761	0.3761	0.004443	0.004443		M
D Perylene-d12	55:48	3358192		1.1917	8.618	8.618	0.009128	0.009128	86.18	M
Perylene	55:52	40875		1.4307	0.0851	0.0851	0.004120	0.004120		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	3030963		1.0218	9.071	9.071	0.005312	0.005312	90.71	
Indeno[1,2,3-cd]pyrene	57:56	332662		1.1249	0.9756	0.9756	0.004937	0.004937		
D 13C6-Dibenz(a,h)anthracene	58:00	3326174		1.0553	9.639	9.639	0.002889	0.002889	96.39	M
Dibenz(a,h)anthracene	58:00	135224		1.1314	0.3593	0.3593	0.002469	0.002469		M
D 13C12-Benzo(ghi)perylene	58:23	3639903		1.2749	8.731	8.731	0.000901	0.000901	87.31	M
Benzo[g,h,i]perylene	58:23	2092034		1.2838	4.477	4.477	0.003828	0.003828		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Lims ID: 140-37232-A-2-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 05:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:25:06 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 11:25:06

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:27	11:24	3	0.666	3044938	1037587	274	685	3787		
Naphthalene											
128.0626	11:27	11:27	2	1.000	10906285	3732326	1847	4617	2021		M
13C6-2-Methylnaphthalene											
148.0984	13:47	13:46	1	0.801	1549528	676158	141	352	4795		
2-Methylnaphthalene											
142.0783	13:47	13:47	1	1.000	2014736	865929	767	1917	1129		M
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	2140404	725504	234	585	3100		
Acenaphthylene											
152.0626	16:38	16:38	0	1.000	40821	18567	737	1842	25		
Acenaphthene-d10											
164.1404	17:12	17:12	0		708328	236610	32	80	7394		
13C6-Acenaphthene											
160.0984	17:19	17:19	0	1.007	1119924	376927	162	405	2327		
Acenaphthene											
154.0783	17:20	17:20	0	1.001	162062	52064	572	1430	91		
13C6-Fluorene											
172.0984	19:35	19:35	0	1.139	1119447	298532	136	340	2195		
Fluorene											
166.0783	19:35	19:35	-1	1.000	179744	41091	520	1300	79		M
13C6-Phenanthrene											
184.0984	24:56	24:55	-1	0.708	1472658	337705	81	202	4169		
Phenanthrene											
178.0783	24:57	24:55	0	1.001	832076	180480	561	1402	322		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:08	0	0.714	123701	26893	27	67	996		
13C6-Anthracene											
184.0984	25:16	25:15	0	0.717	1387383	281304	81	202	3473		
Anthracene											
178.0783	25:16	25:14	0	1.000	44014	9641	561	1402	17		
13C6-Fluoranthrene											
208.0984	33:40	33:38	0	0.956	4036394	682669	409	1022	1669		
Fluoranthene											
202.0783	33:40	33:37	0	1.000	1771183	307236	383	957	802		
Pyrene-d10											
212.1404	35:13	35:12	1		1853874	331031	100	250	3310		
13C3-Pyrene											
205.0883	35:21	35:19	1	1.004	4203897	720520	276	690	2611		
Pyrene											
202.0783	35:21	35:19	0	1.000	2901692	490910	383	957	1282		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:02	0	0.705	1892361	328329	108	270	3040		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:49	1	1.303	3212300	502319	310	775	1620		
Benzo[a]anthracene											
228.0939	45:52	45:52	0	1.000	161898	25931	186	465	139		Ma
13C6-Chrysene											
234.1140	46:09	46:09	1	1.311	3676144	529204	310	775	1707		M
Chrysene											
228.0939	46:09	46:09	0	1.000	506368	68477	186	465	368		M
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:28	0	0.984	3643497	909096	126	315	7215		
Benzo[b]fluoranthene											
252.0939	54:31	54:29	1	1.000	512005	101976	236	590	432		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:30	0	0.984	3723227	797493	500	1250	1595		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	1	0.986	4561990	998877	126	315	7928		M
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	187447	39682	236	590	168		M
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		1634942	478952	417	1042	1149		
Benzo[e]pyrene											
252.0939	55:28	55:27	1	1.000	1889391	588953	236	590	2496		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:26	1	1.002	4108511	1295696	251	627	5162		
13C4-Benzo(a)pyrene											
256.1073	55:36	55:35	0	1.004	4416931	1193179	251	627	4754		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:36	55:36	0	1.000	184917	47797	236	590	203		M
Perylene-d12											M
264.1692	55:48	55:48	1	1.007	3358192	1001017	417	1042	2401		M
Perylene											M
252.0939	55:52	55:52	1	1.001	40875	8979	236	590	38		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:53	0	1.046	3030963	900188	208	520	4328		
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:54	1	1.000	332662	102633	200	500	513		
13C6-Dibenz(a,h)anthracene											M
284.1296	58:00	58:00	1	1.047	3326174	812786	117	292	6947		M
Dibenz(a,h)anthracene											M
278.1096	58:00	58:00	1	1.000	135224	31758	91	227	349		M
13C12-Benzo(ghi)perylene											M
288.1342	58:23	58:23	1	1.054	3639903	1017327	44	110	23121		M
Benzo[g,h,i]perylene											
276.0939	58:23	58:22	0	1.000	2092034	589240	200	500	2946		

QC Flag Legend

Processing Flags

Review Flags

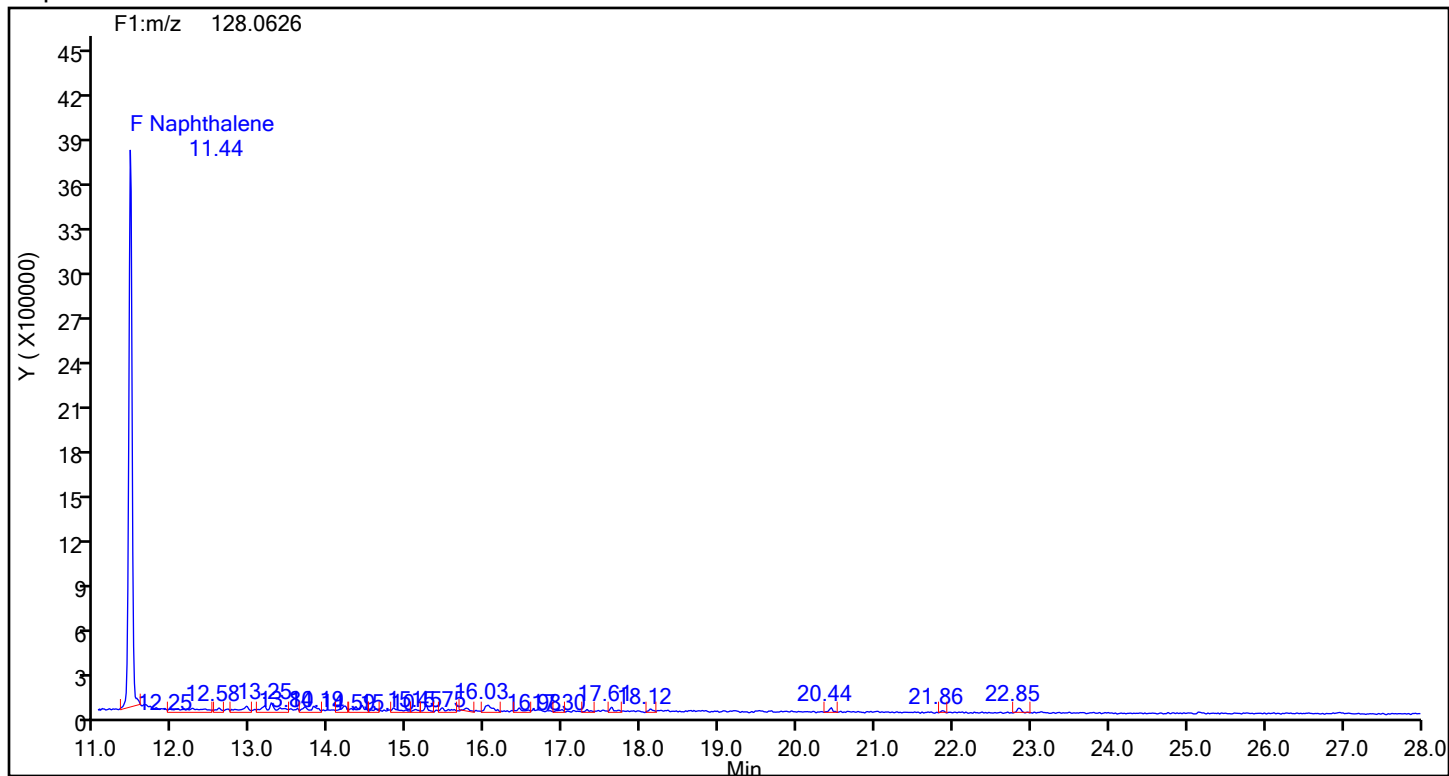
M - Manually Integrated

a - User Assigned ID

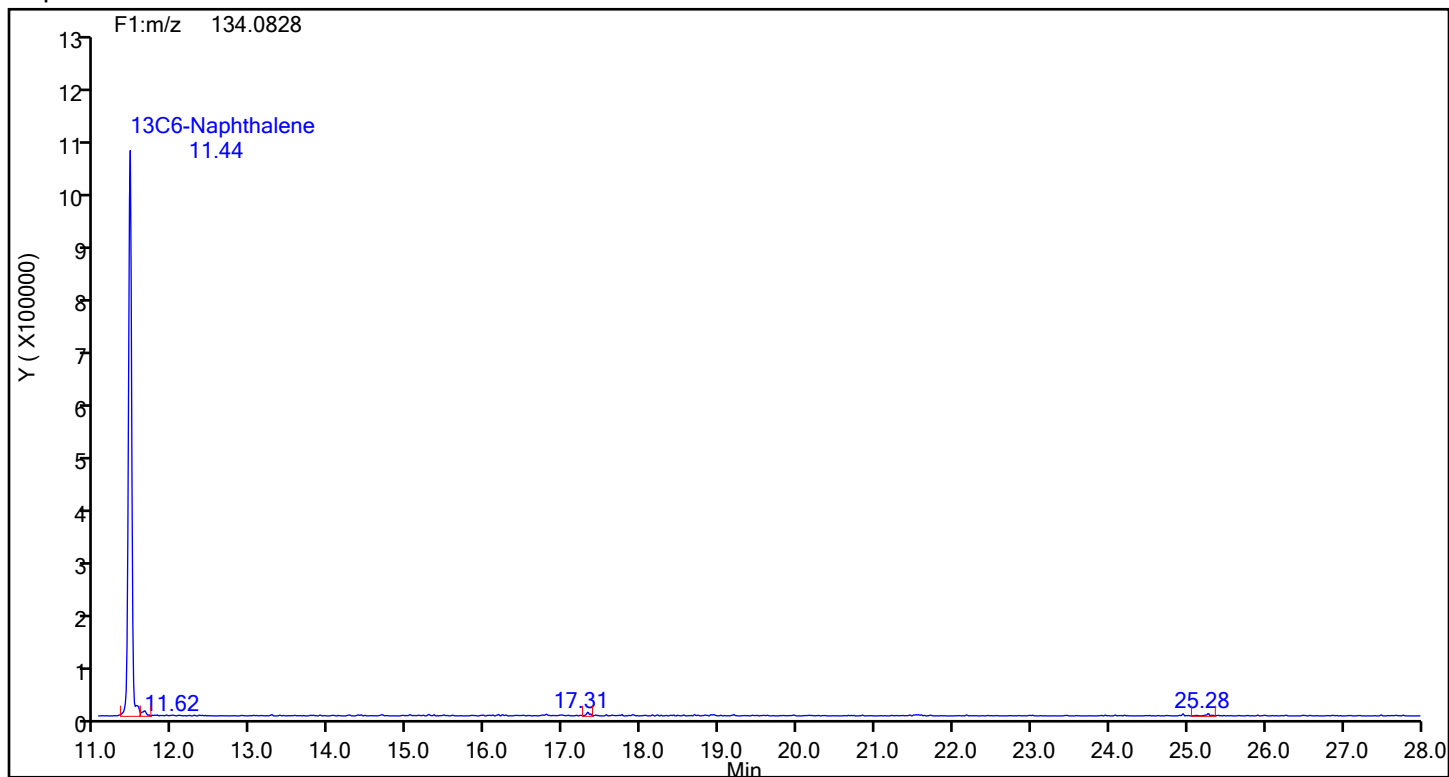
Eurofins Knoxville

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Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

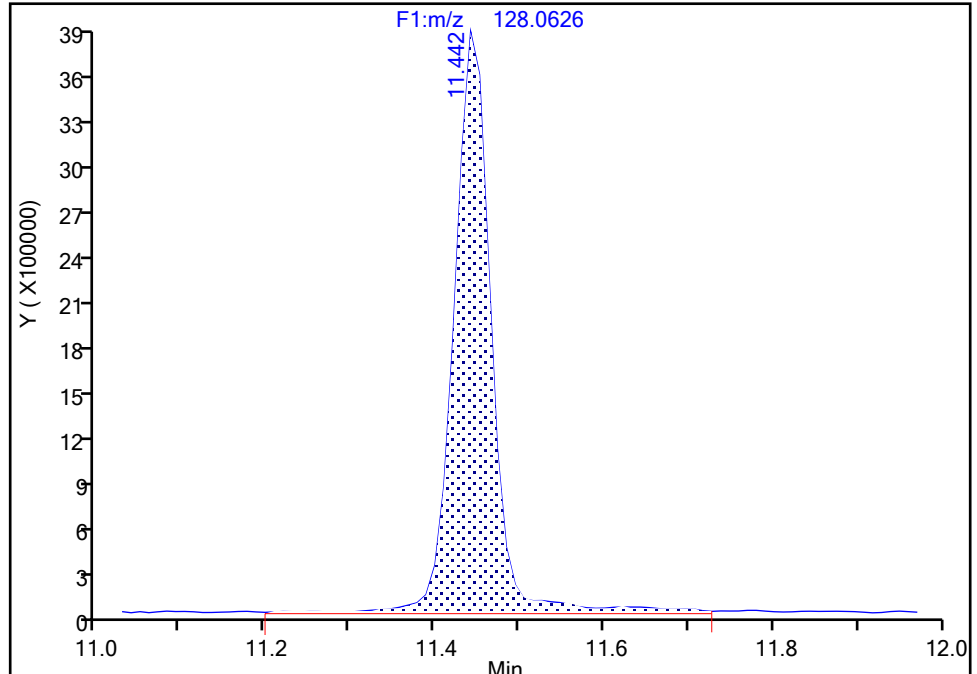
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

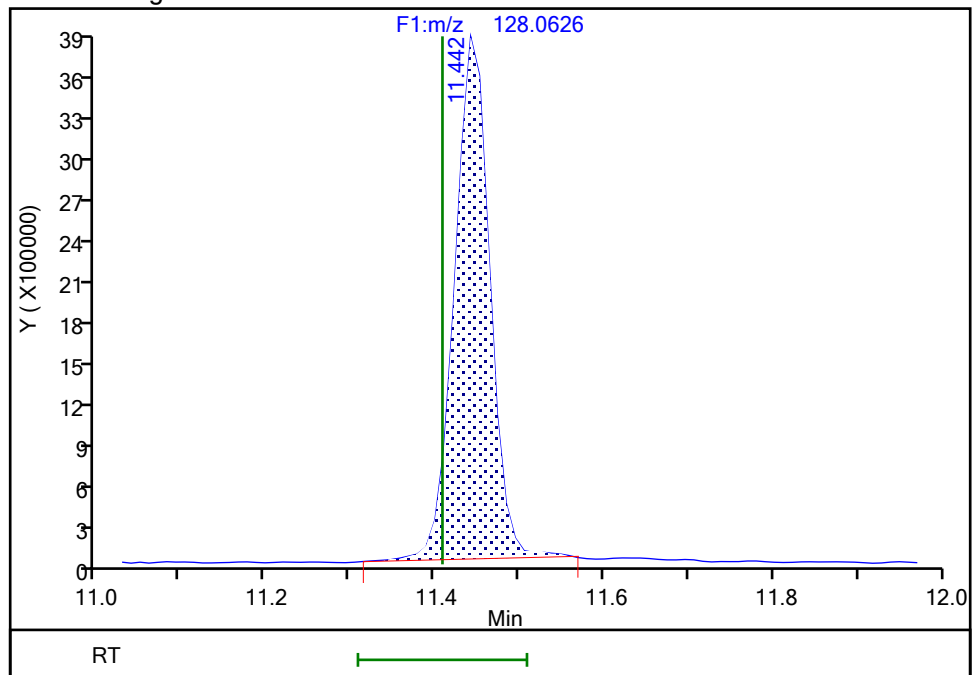
RT: 11.44
Area: 11942649
Amount: 30.421580
Amount Units: pg/ul

Processing Integration Results



RT: 11.44
Area: 10906285
Amount: 27.781644
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:54 -04:00:00 (UTC)

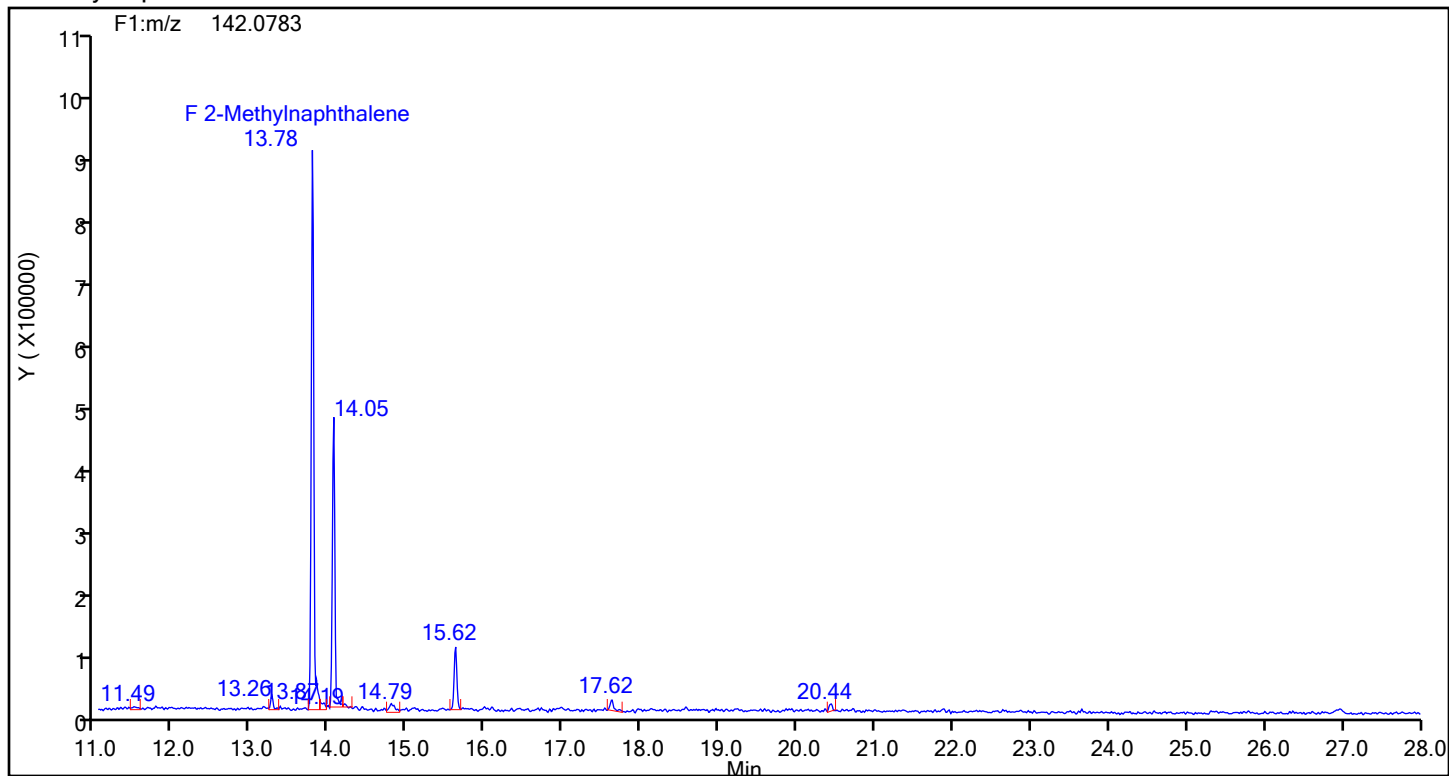
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

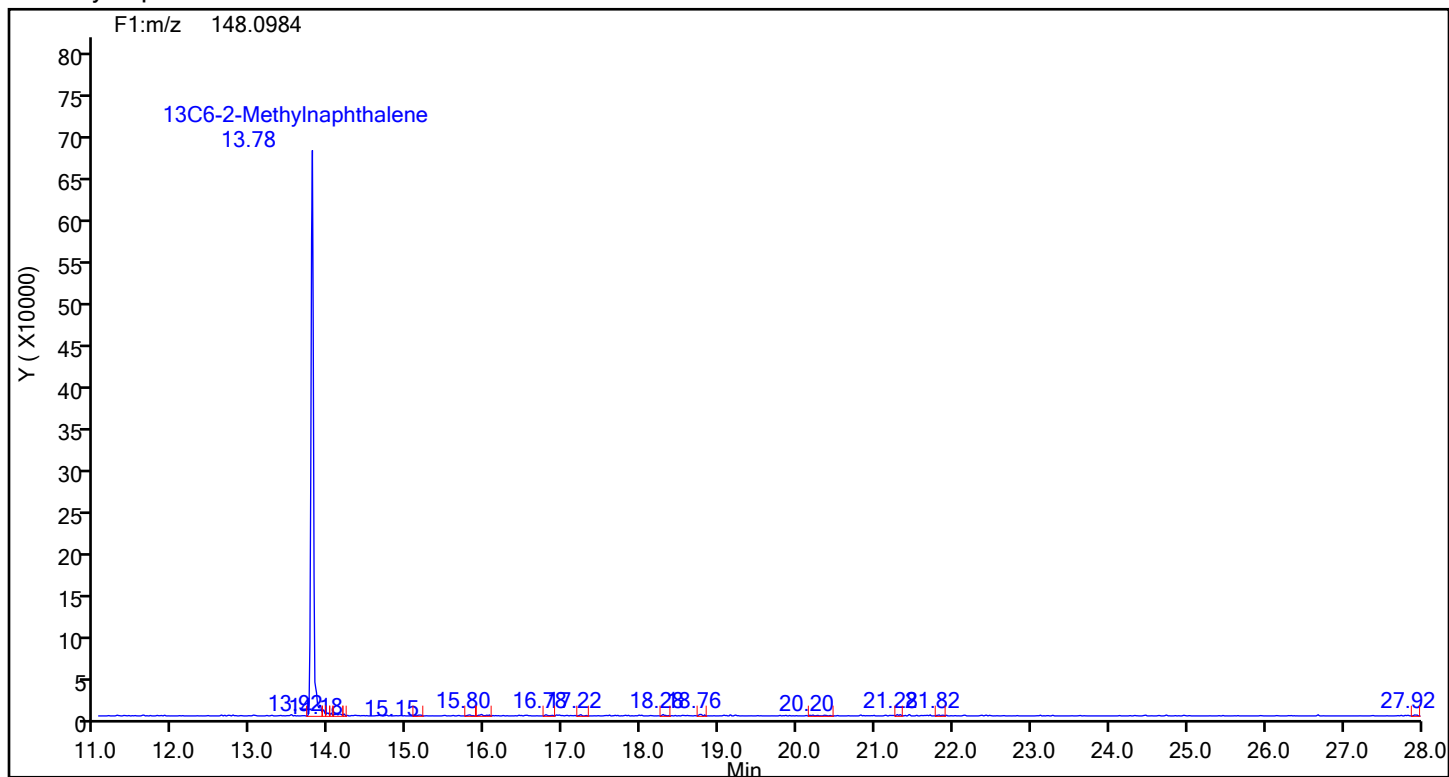
Eurofins Knoxville

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Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

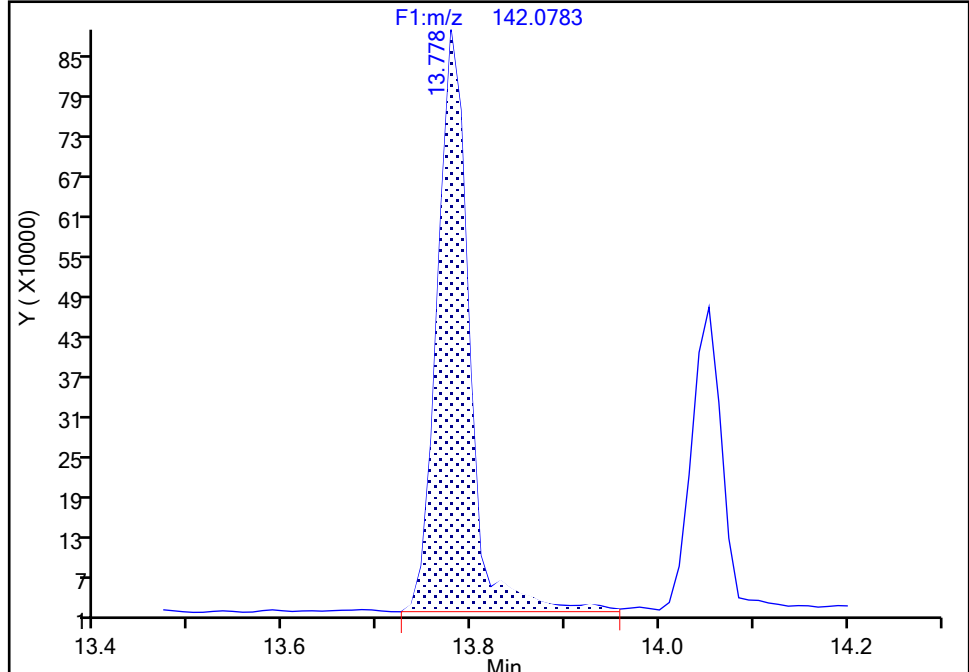
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

2-Methylnaphthalene, CAS: 91-57-6

Signal: 1

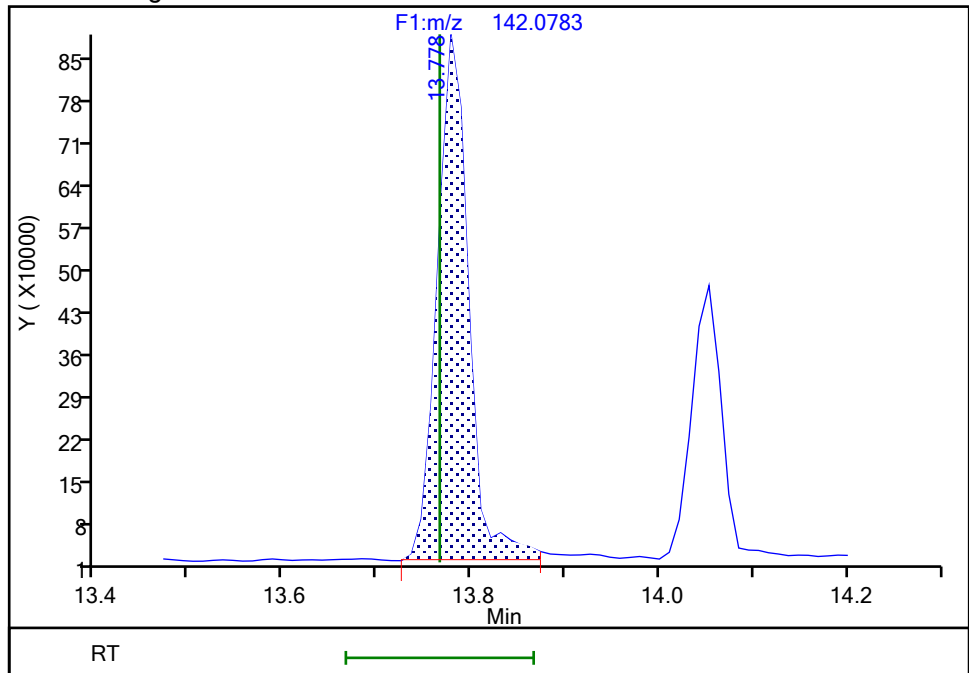
RT: 13.78
Area: 2055149
Amount: 10.373387
Amount Units: pg/ul

Processing Integration Results



RT: 13.78
Area: 2014736
Amount: 10.169402
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:36 -04:00:00 (UTC)

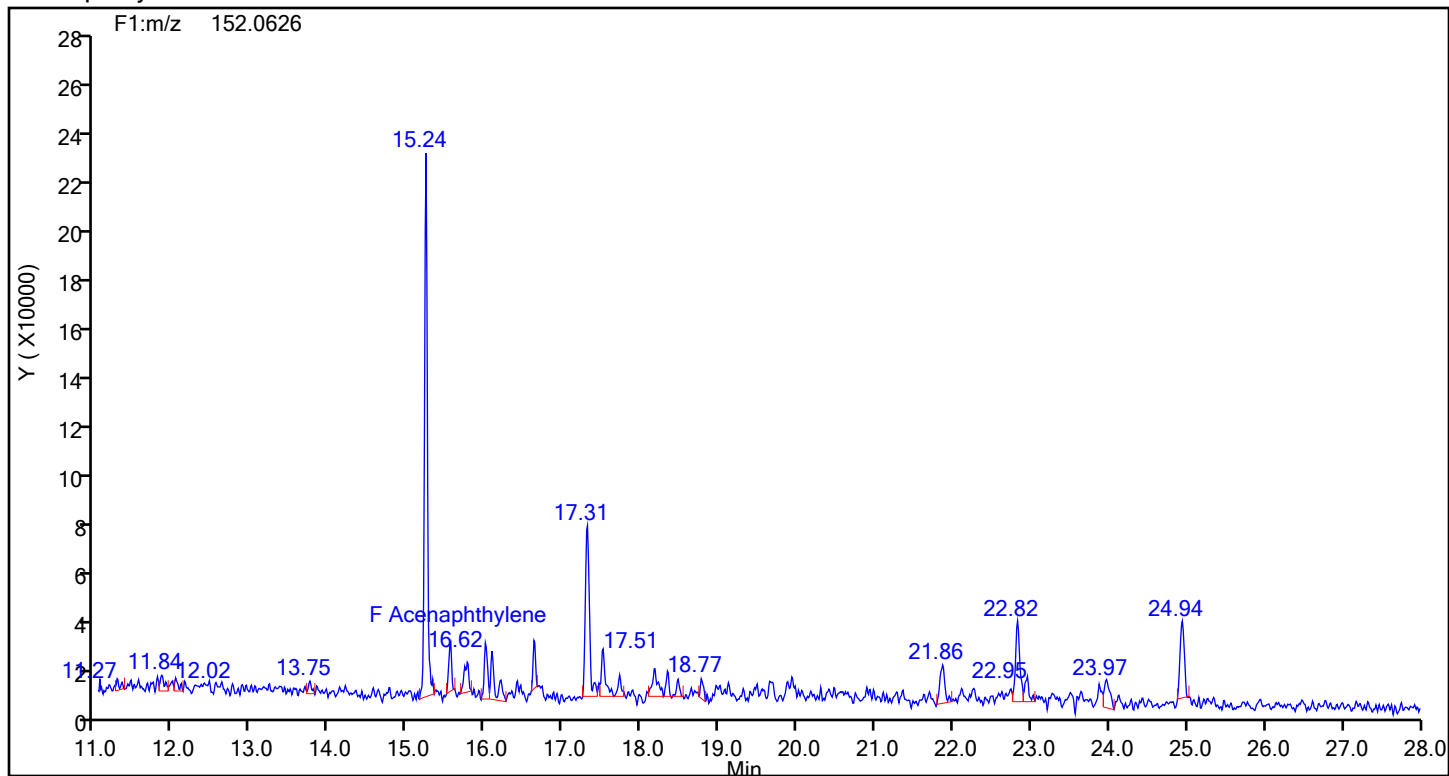
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

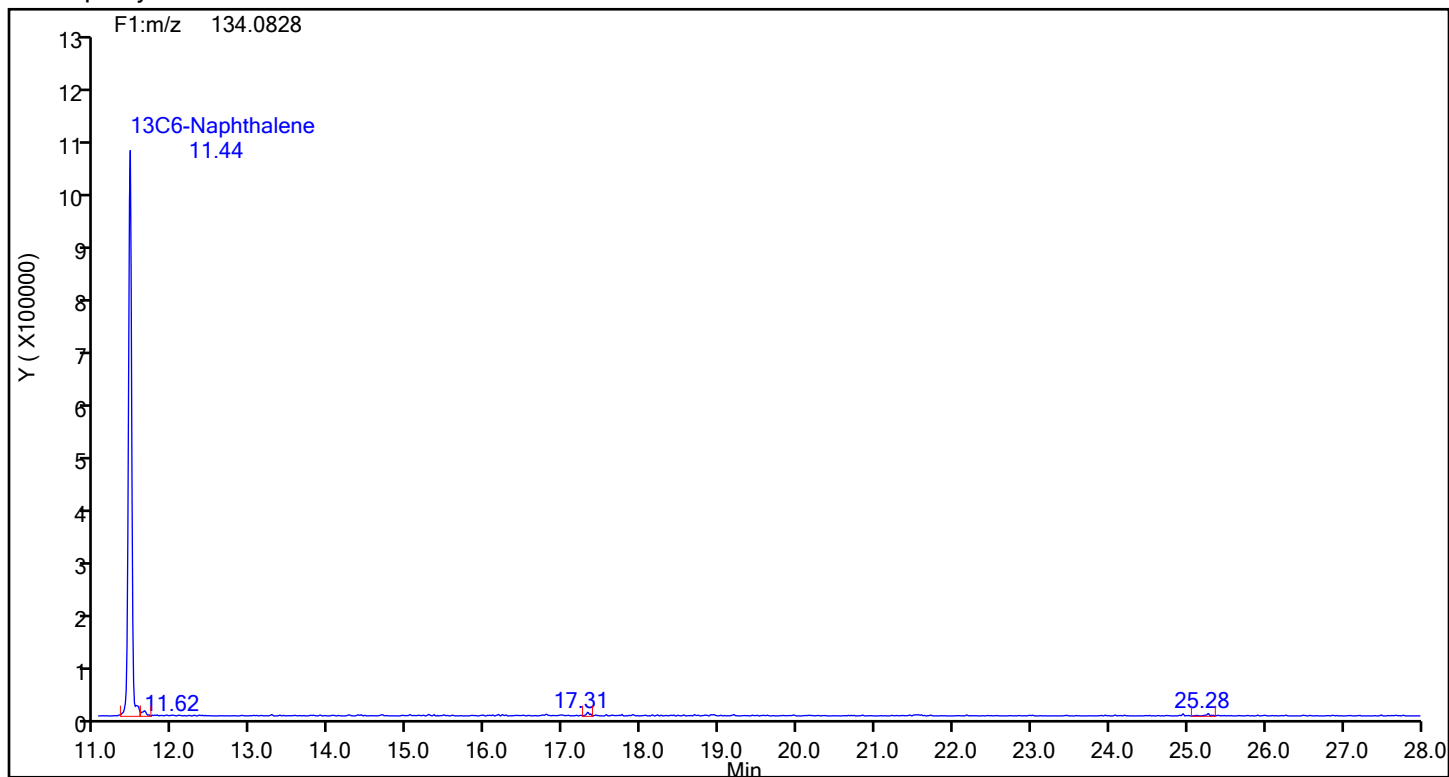
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



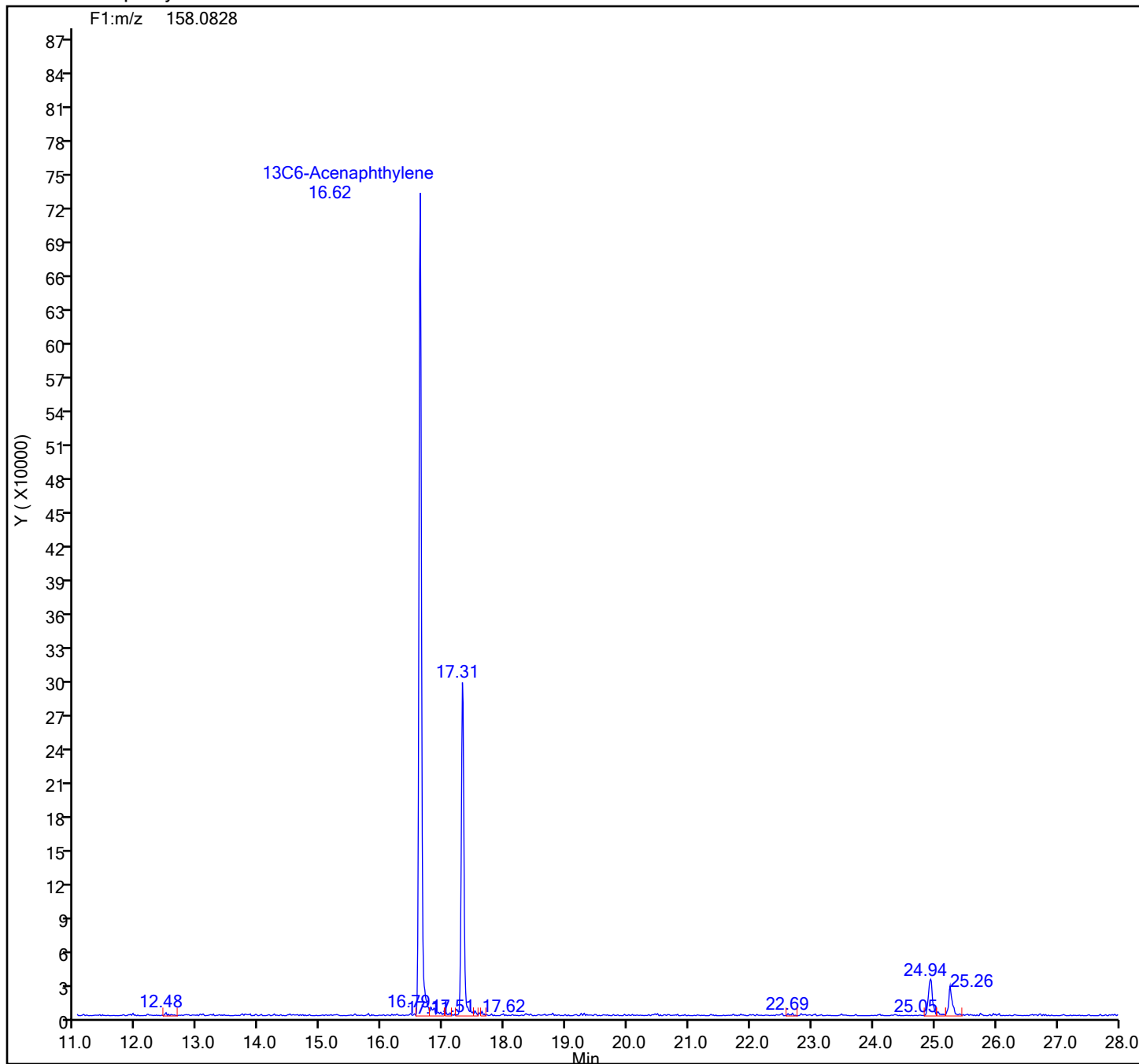
Acenaphthylene Standards



Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

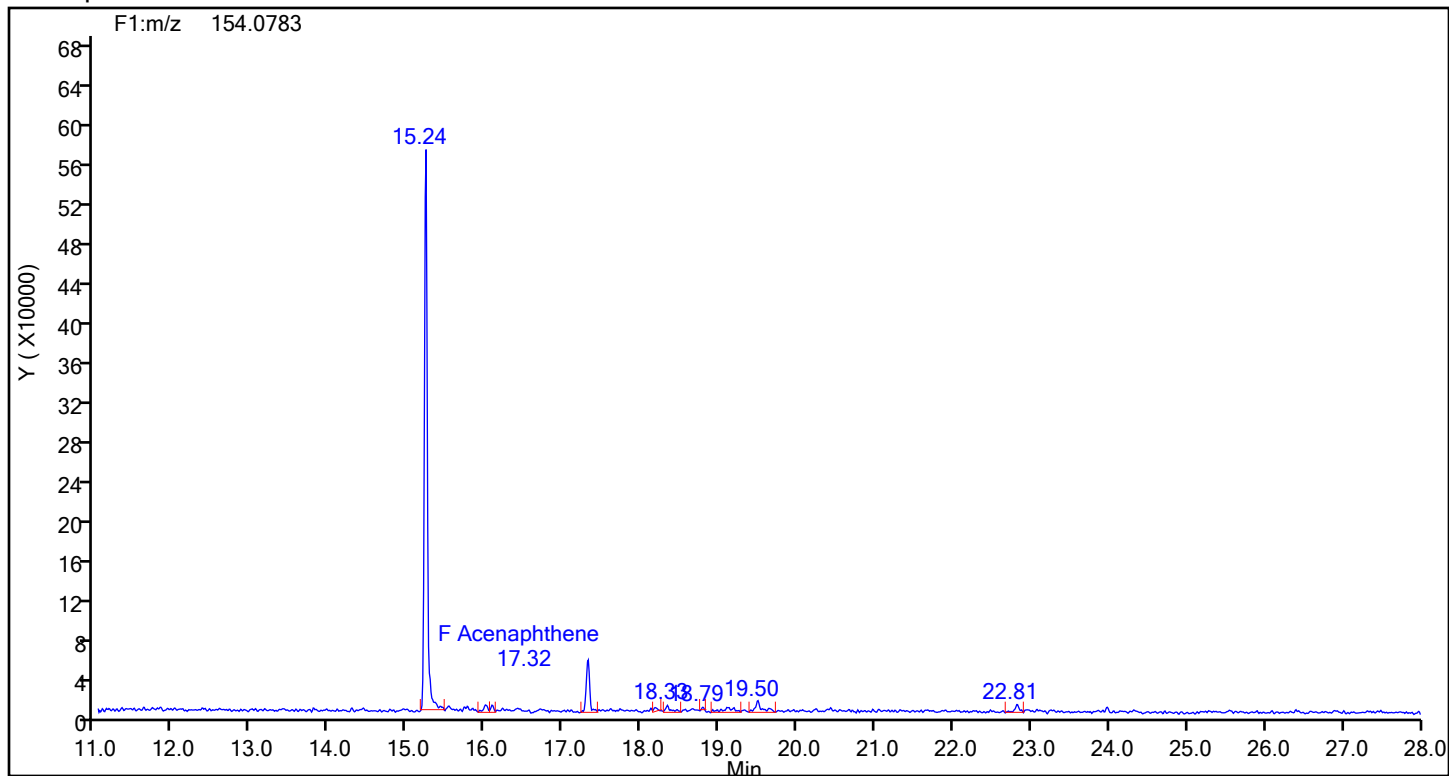
13C6-Acenaphthylene Standards



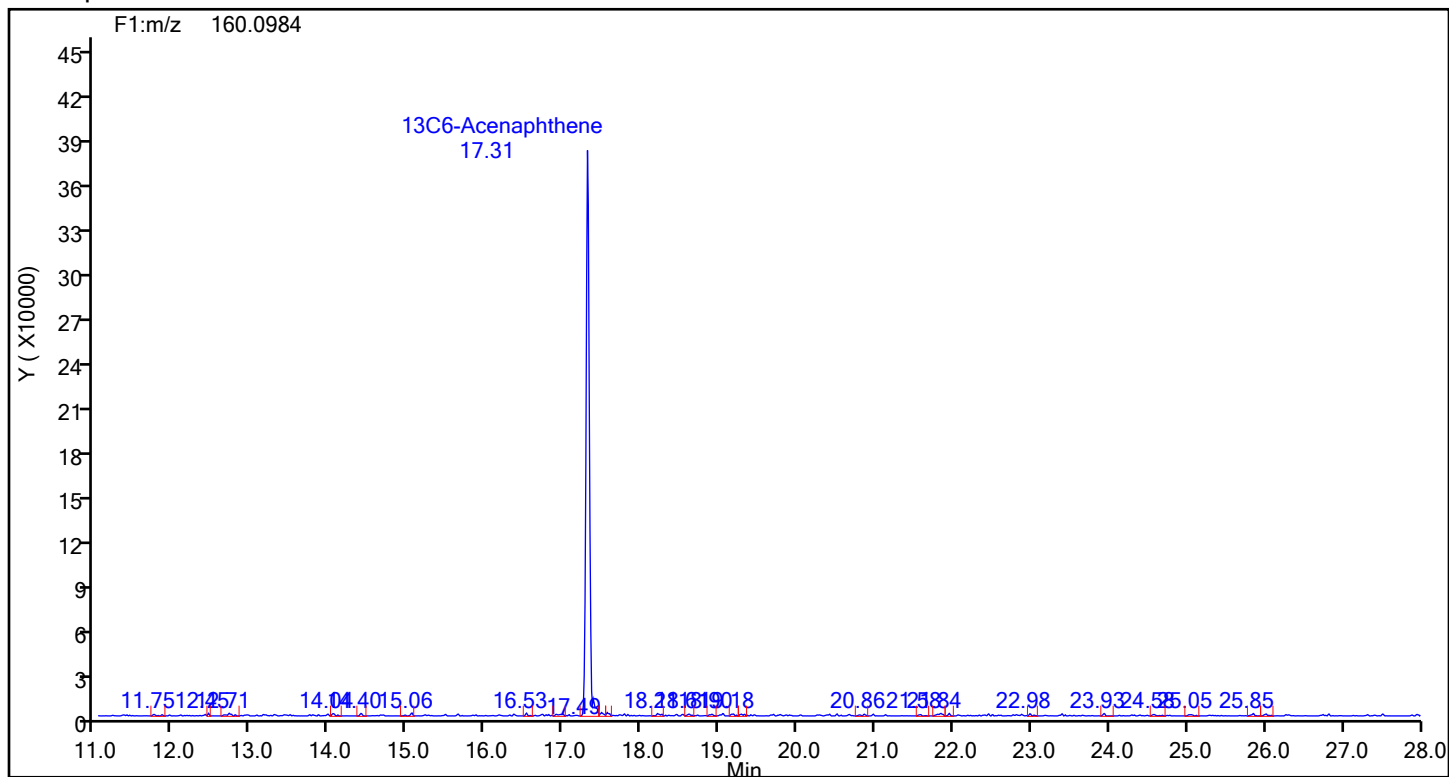
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



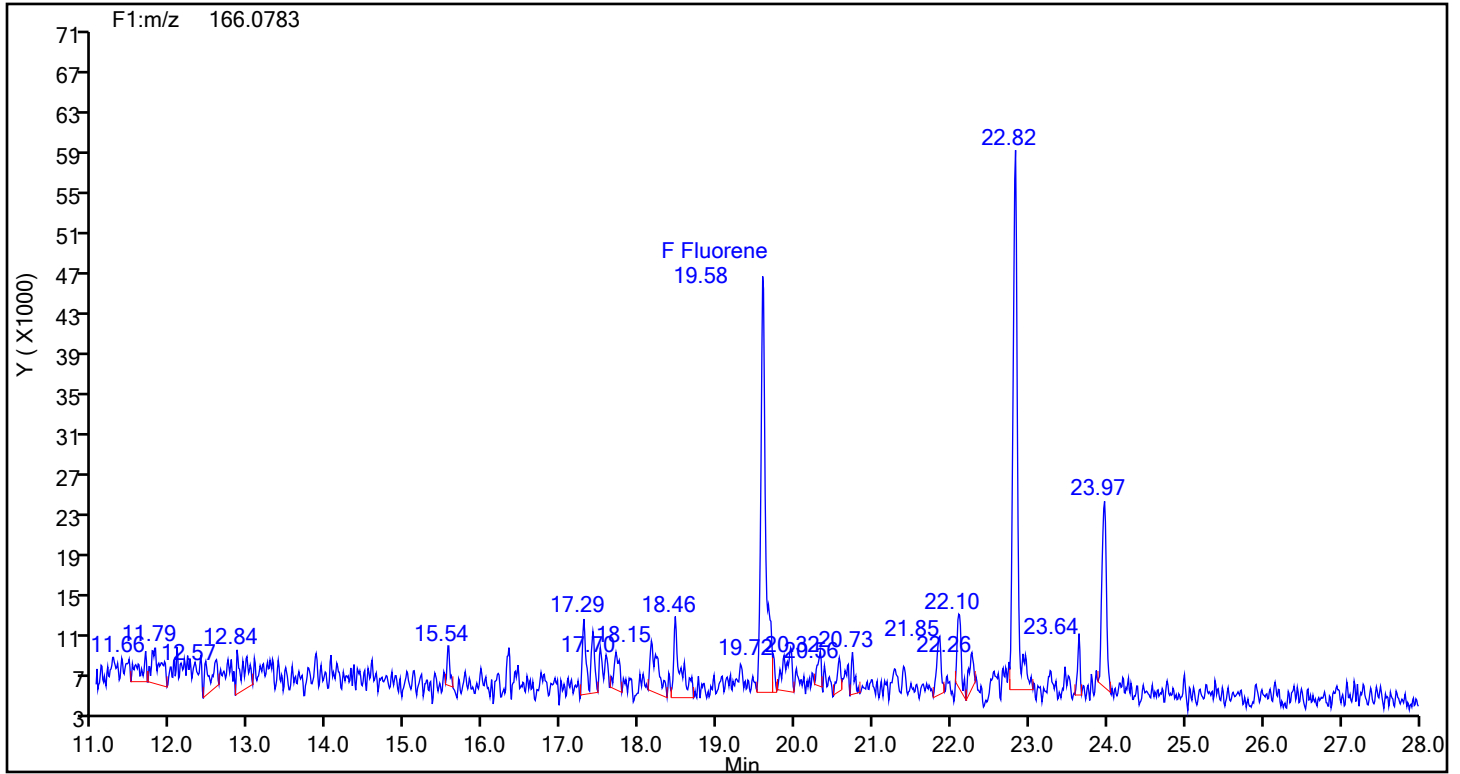
Acenaphthene Standards



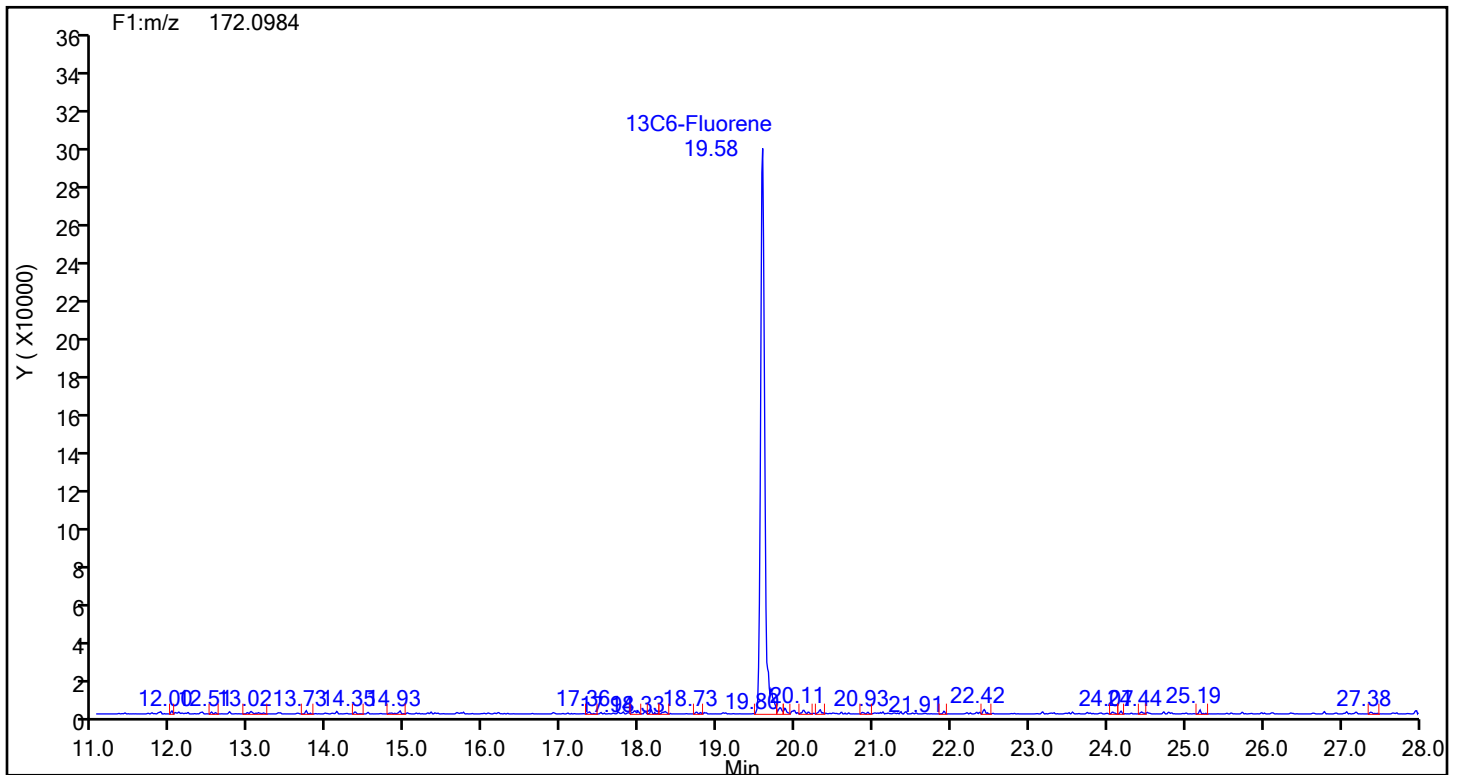
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

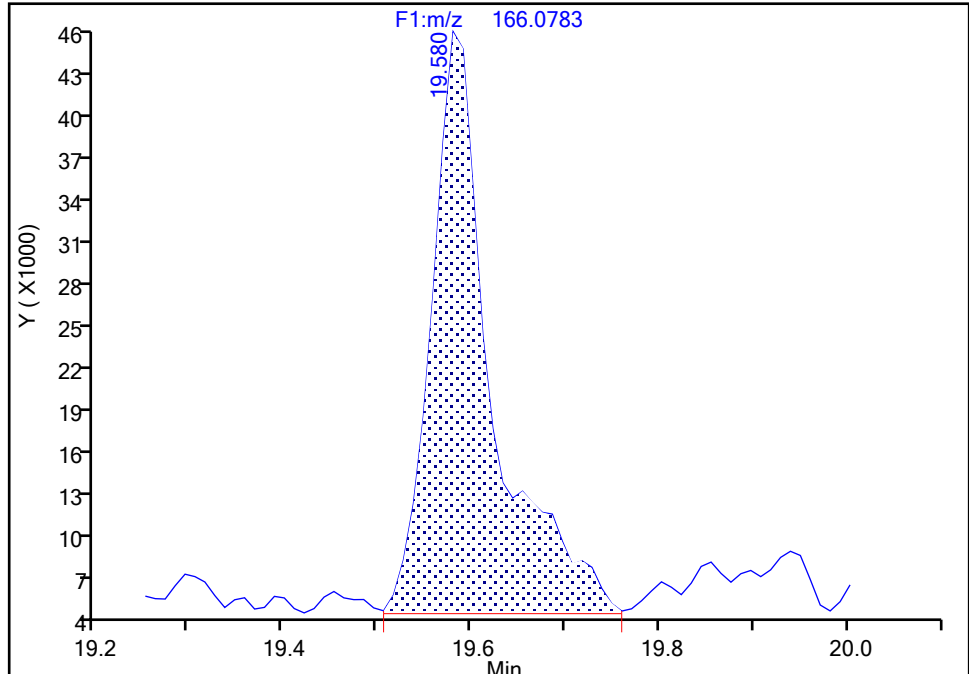
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Fluorene, CAS: 86-73-7

Signal: 1

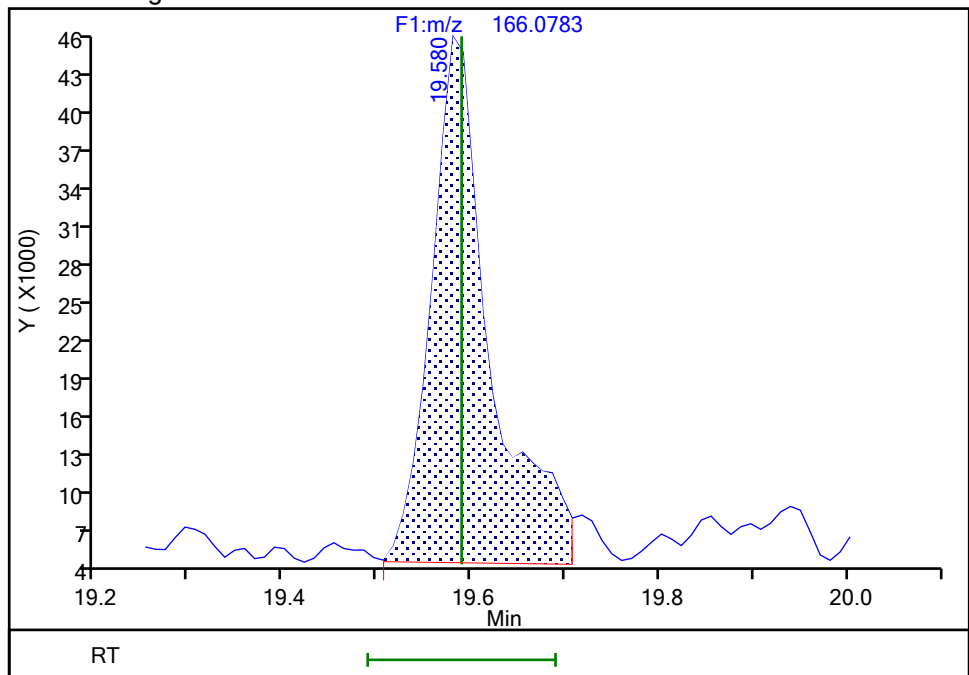
RT: 19.58
Area: 185991
Amount: 1.325816
Amount Units: pg/ul

Processing Integration Results



RT: 19.58
Area: 179744
Amount: 1.281285
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:48 -04:00:00 (UTC)

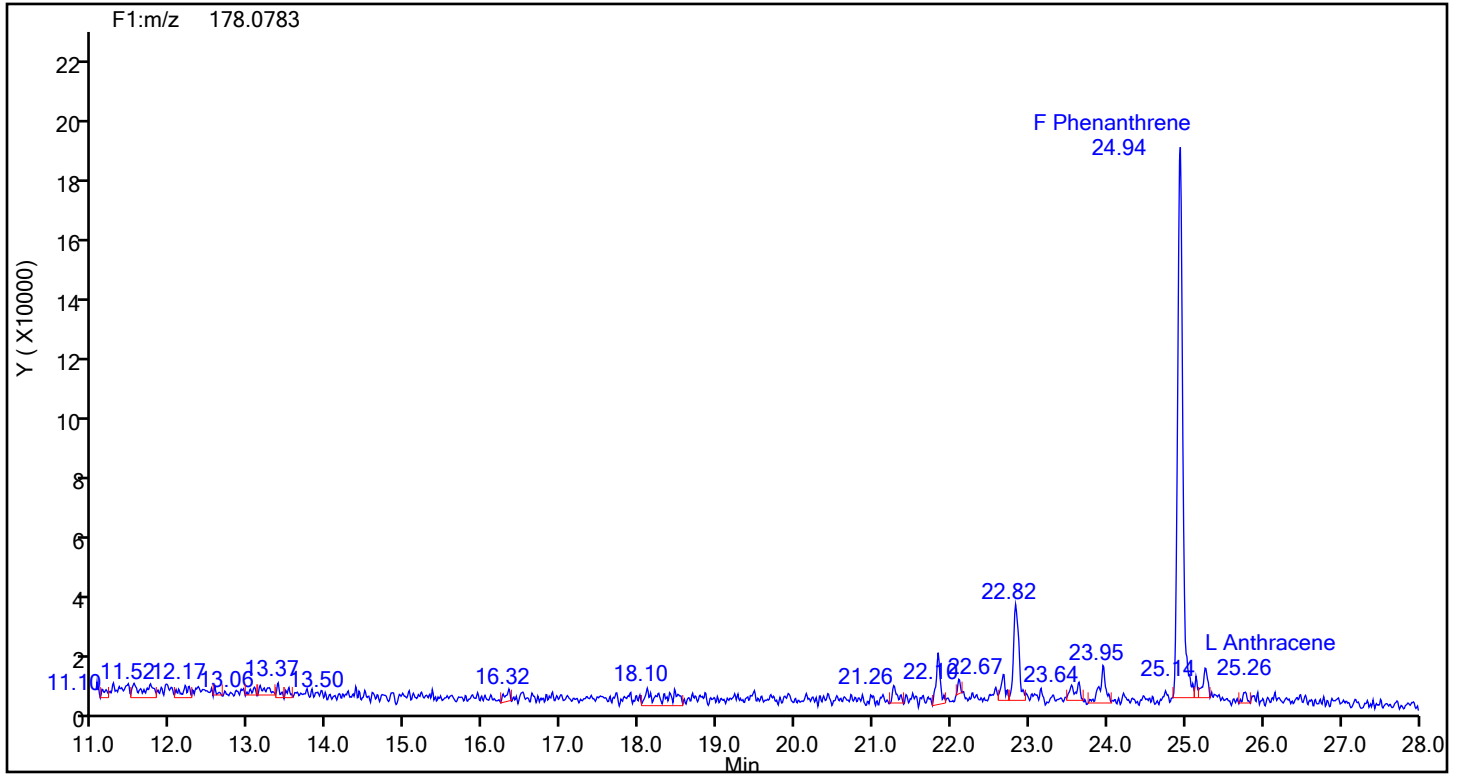
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

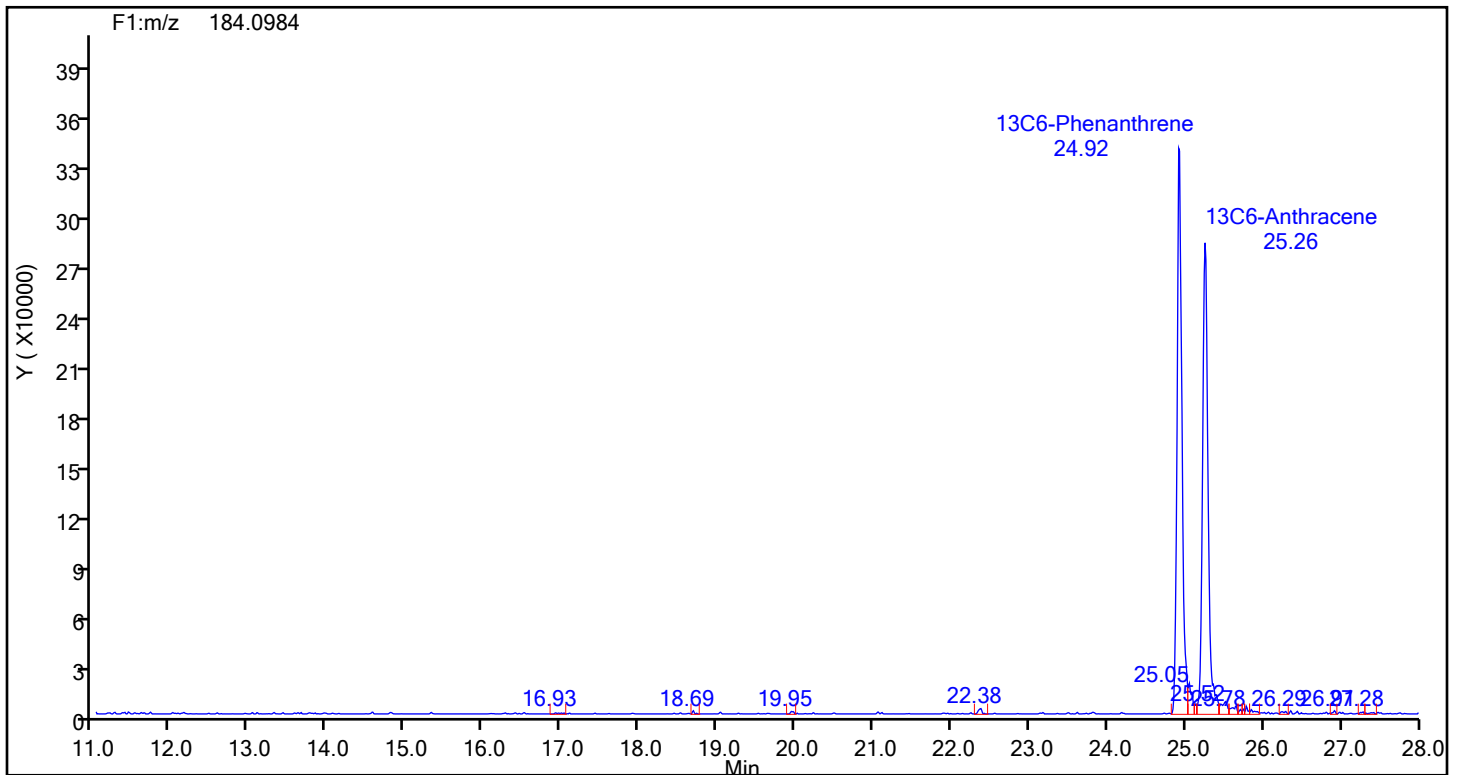
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

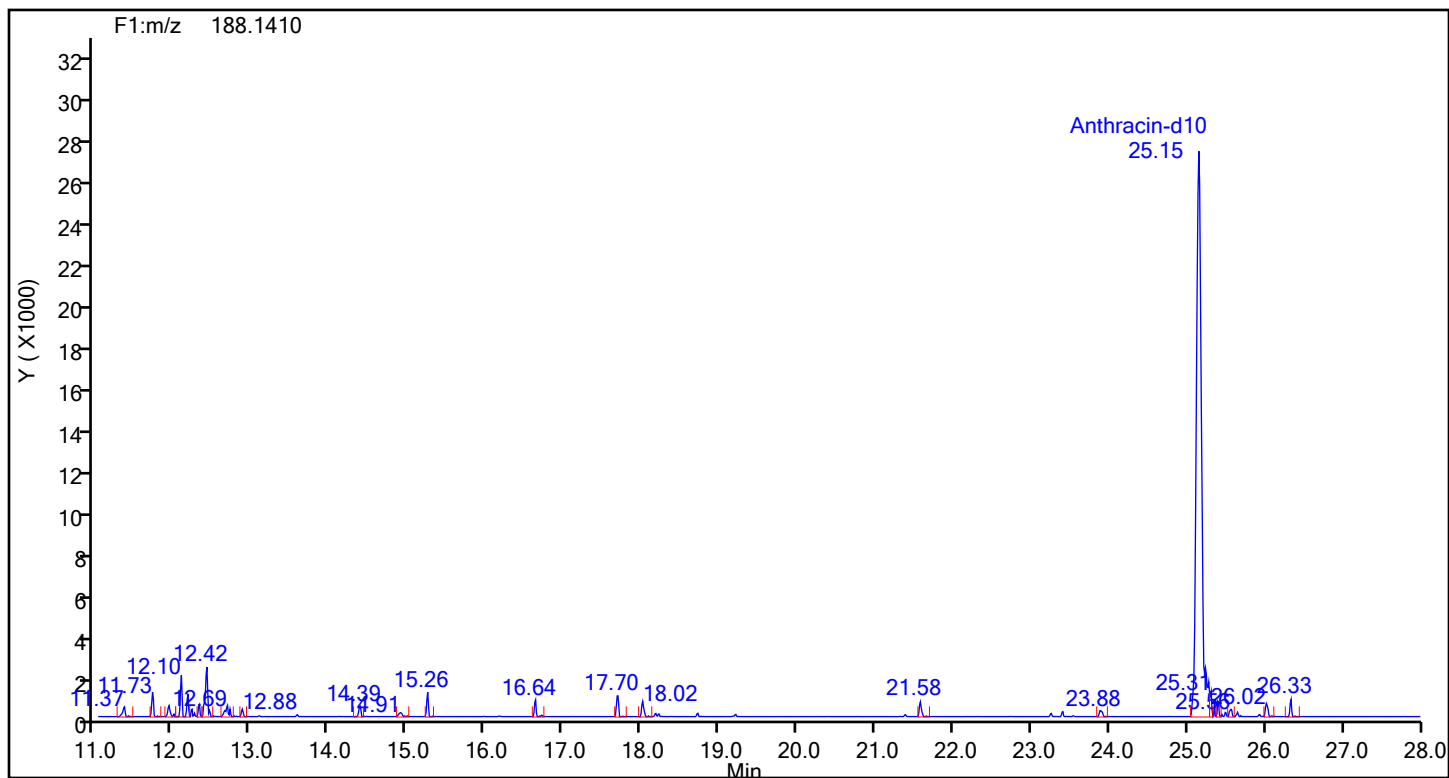


Phenanthrene Standards

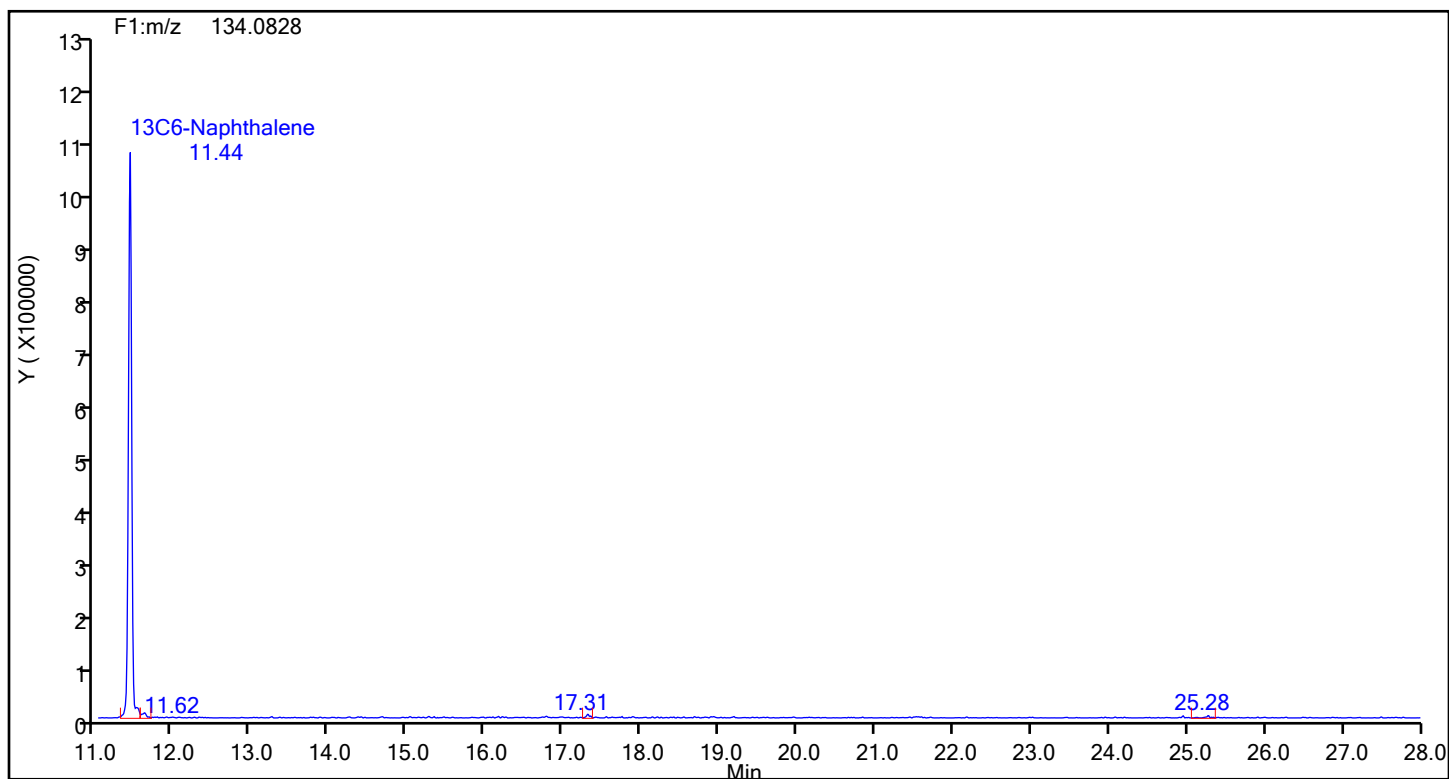


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



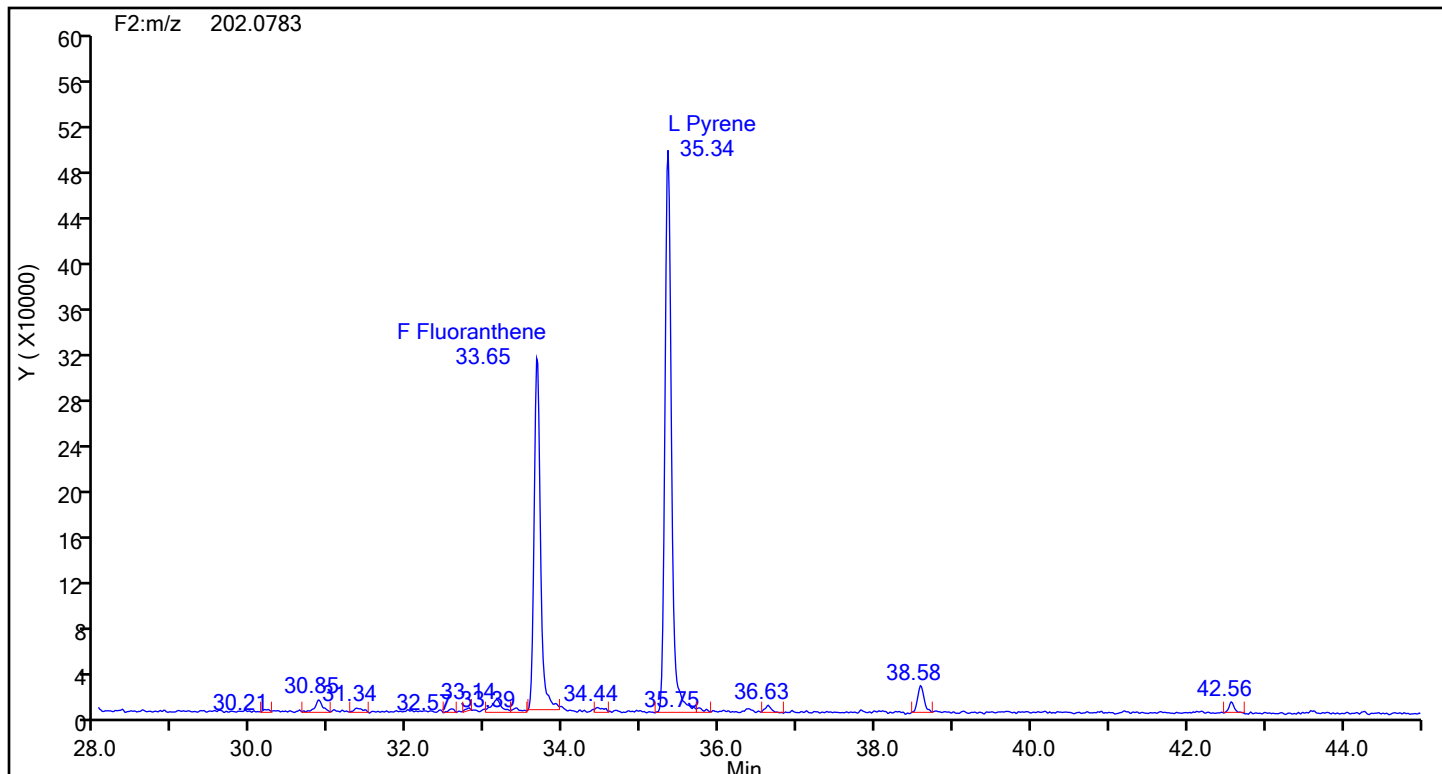
Anthracin-d10 Standards



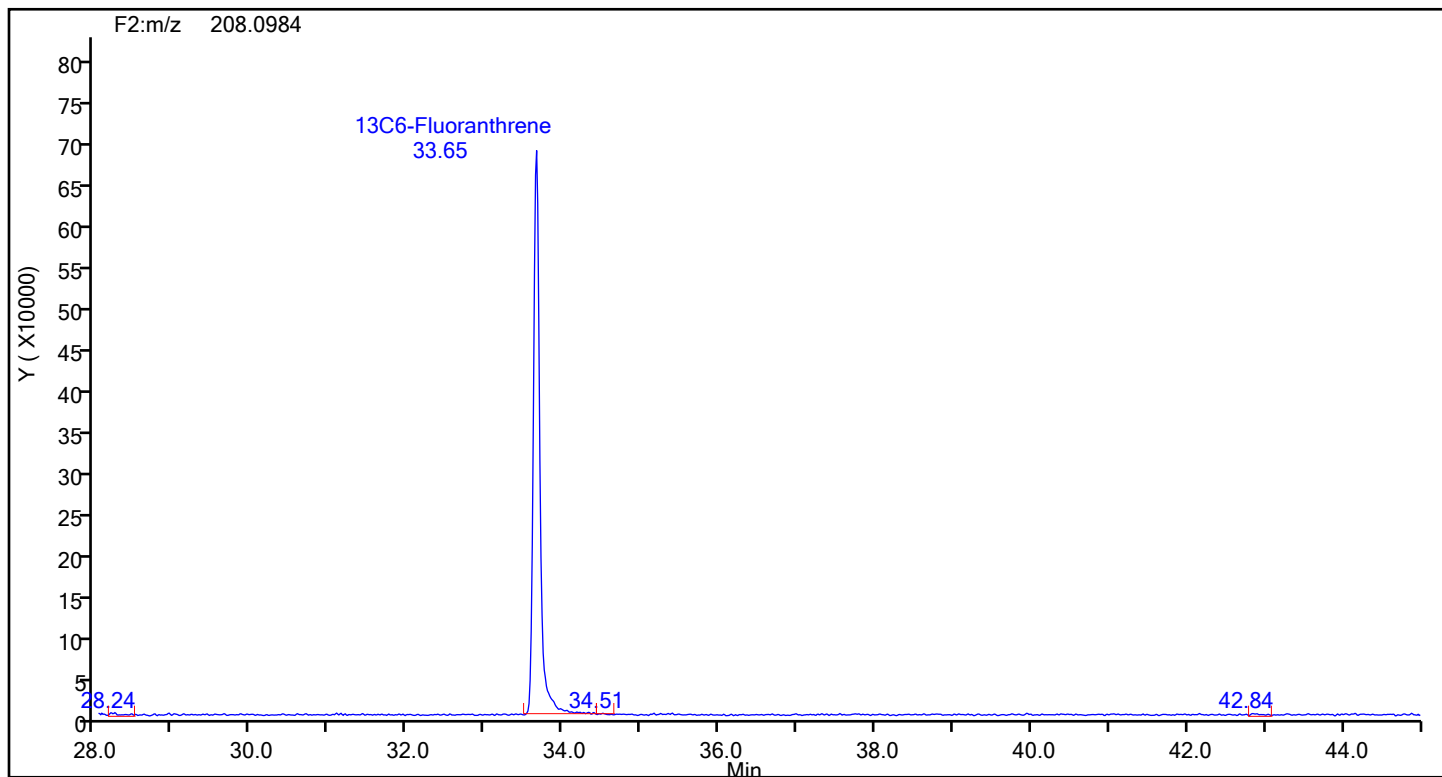
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



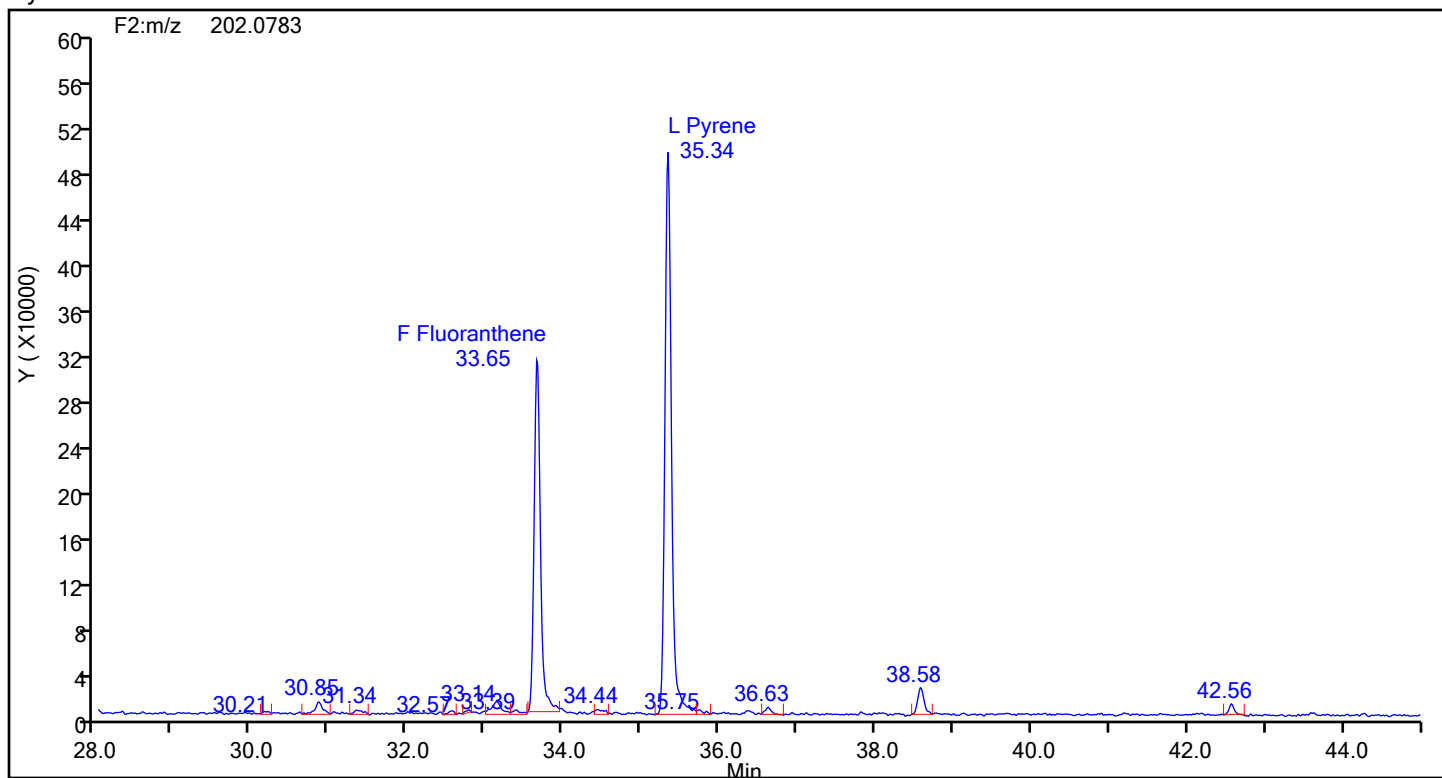
Fluoranthene Standards



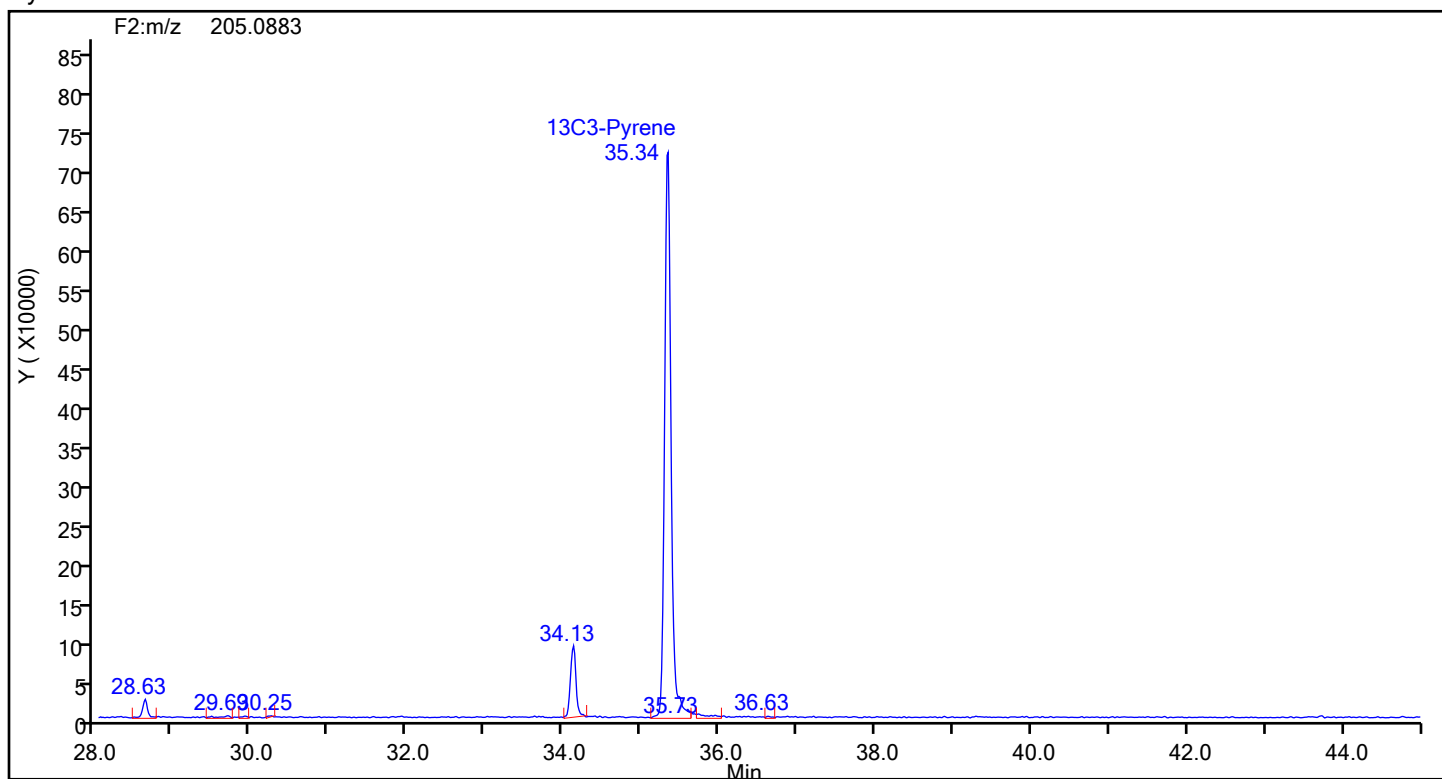
Eurofins Knoxville

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Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



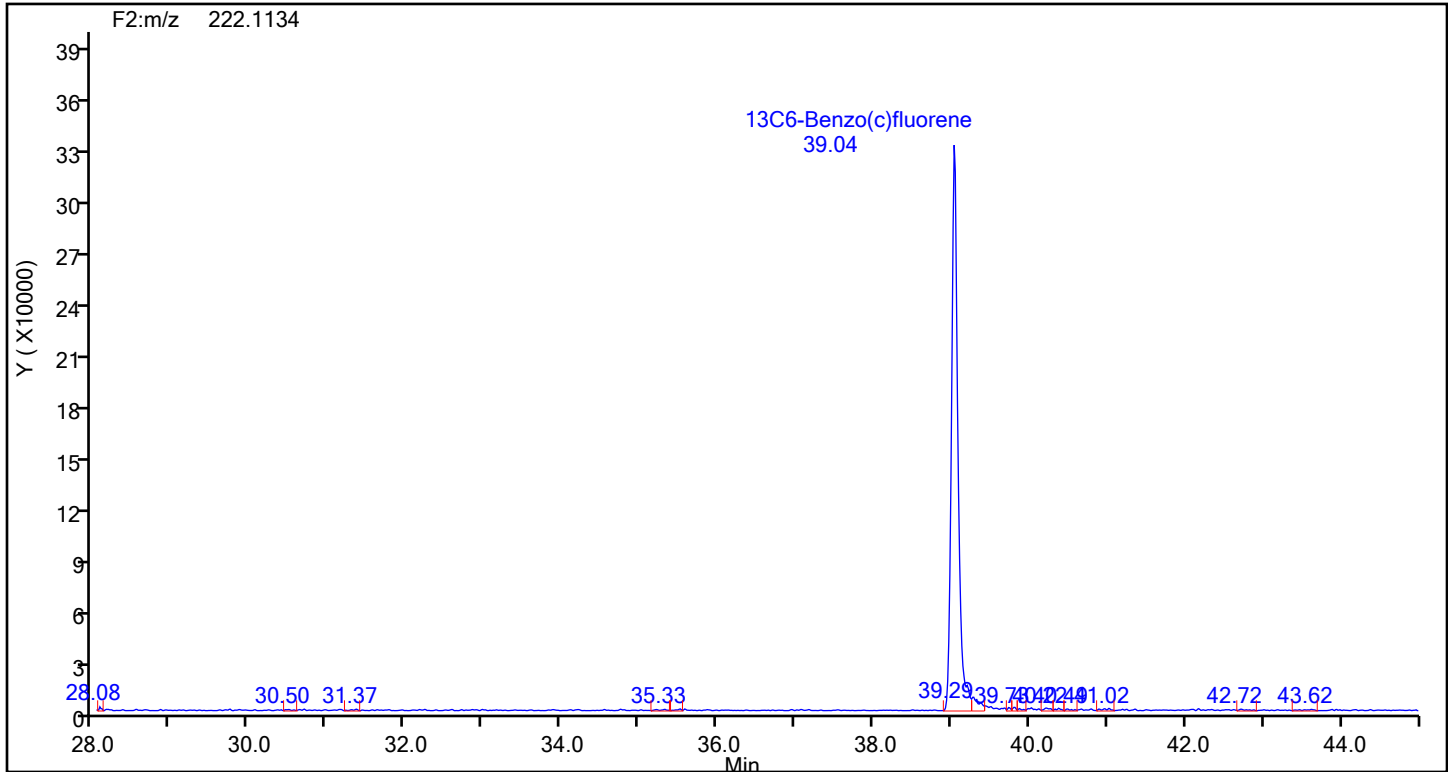
Pyrene Standards



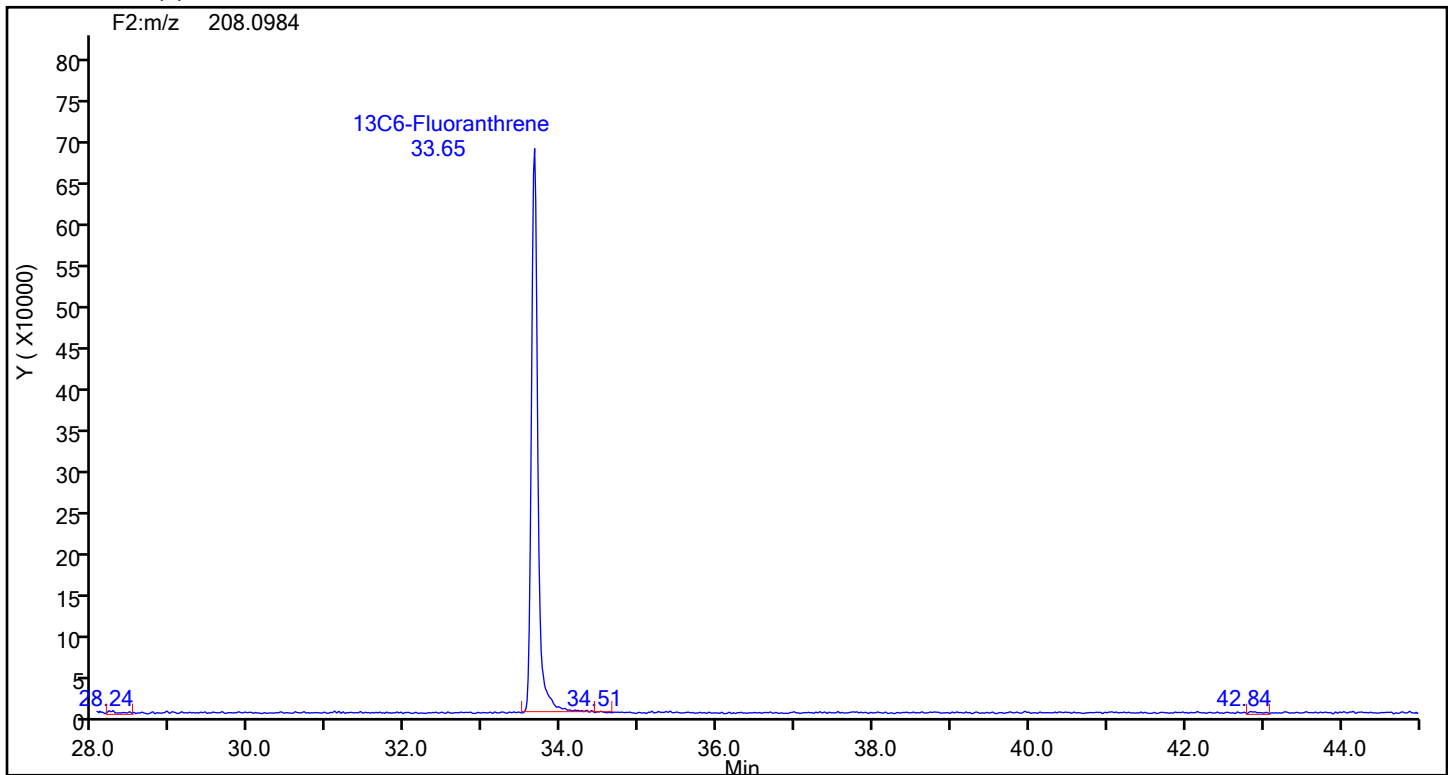
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



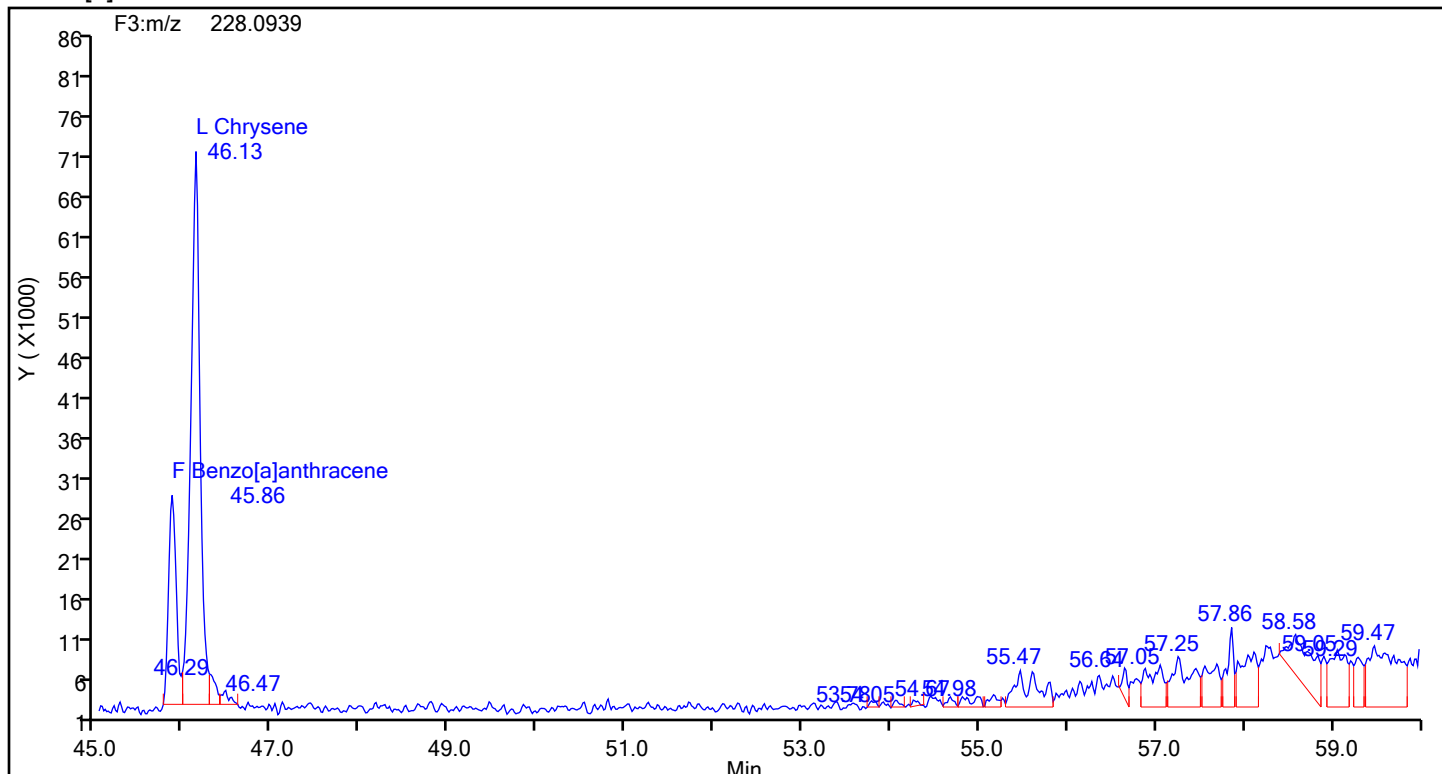
13C6-Benzo(c)fluorene Standards



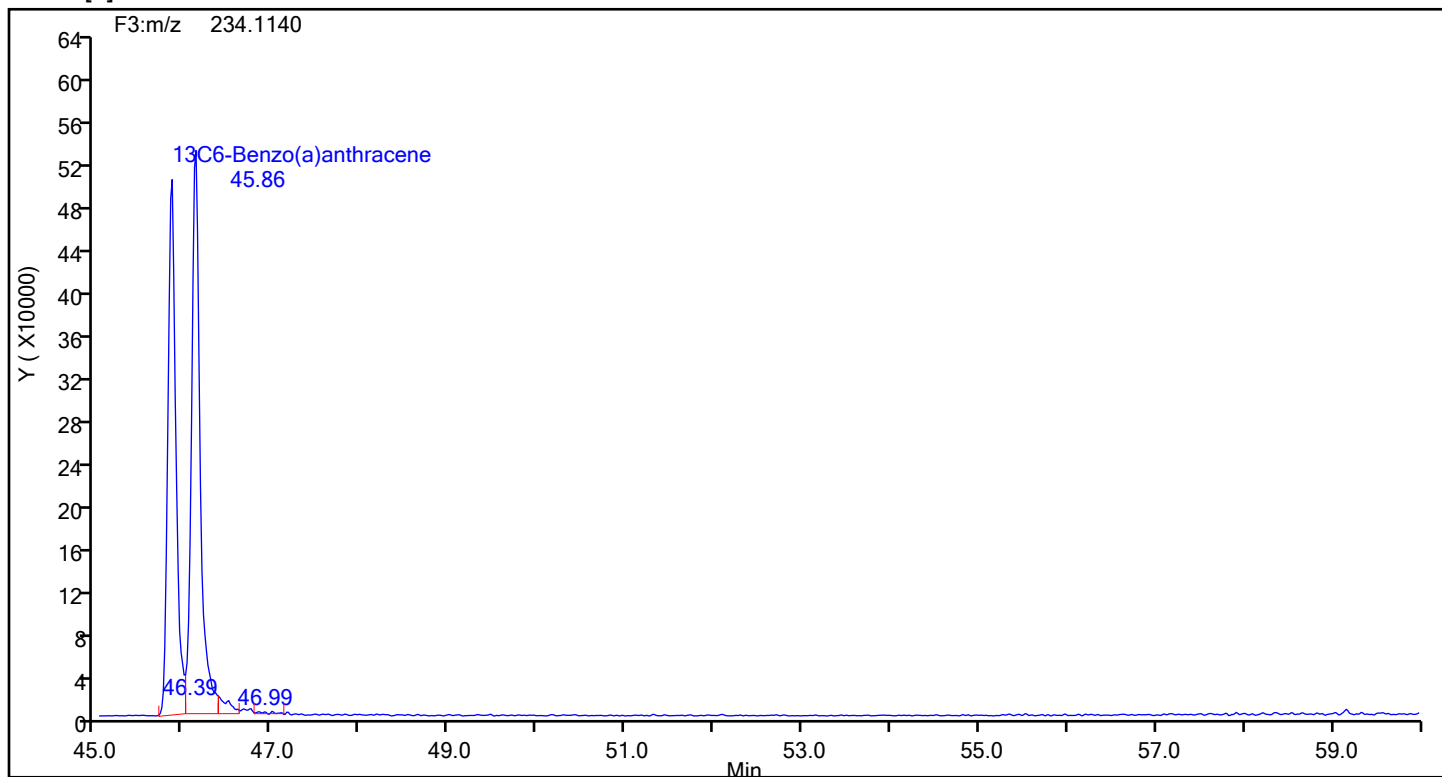
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

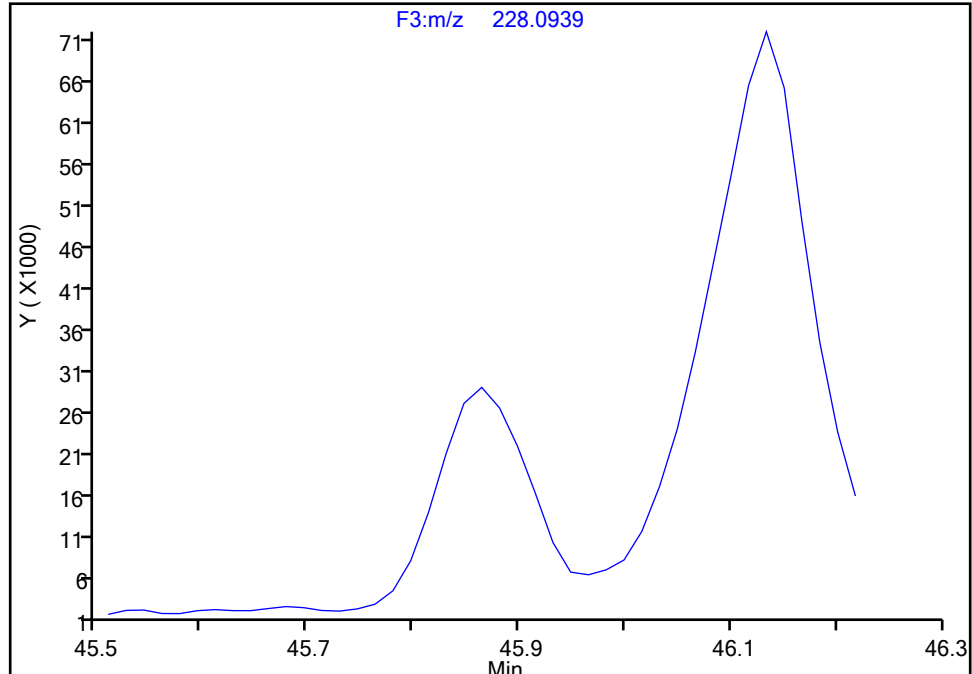
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

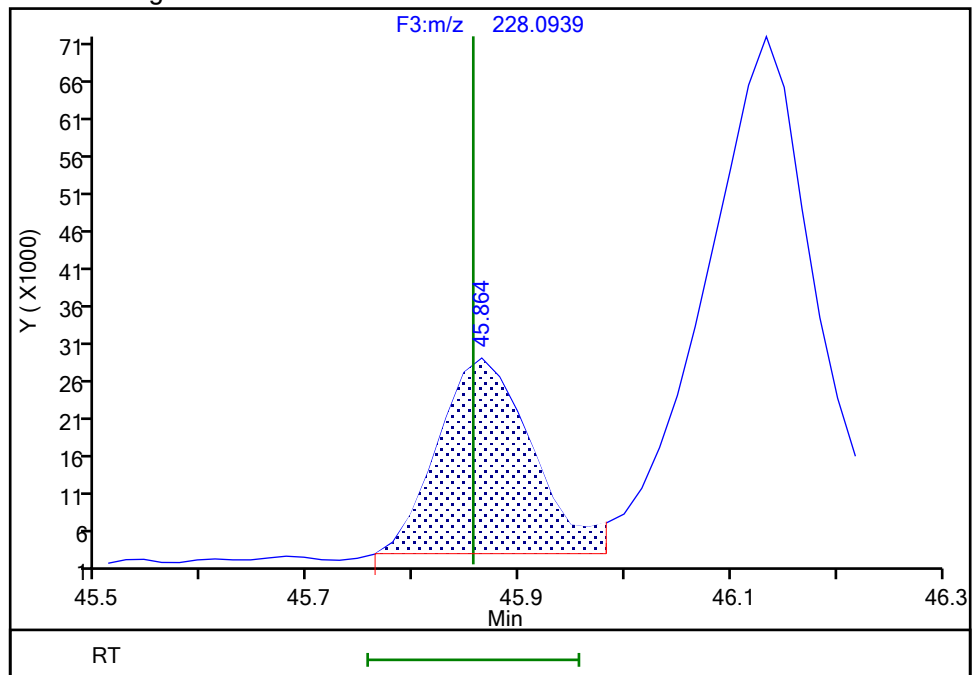
Not Detected
Expected RT: 45.86

Processing Integration Results



RT: 45.86
Area: 161898
Amount: 0.517522
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:32 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Knoxville

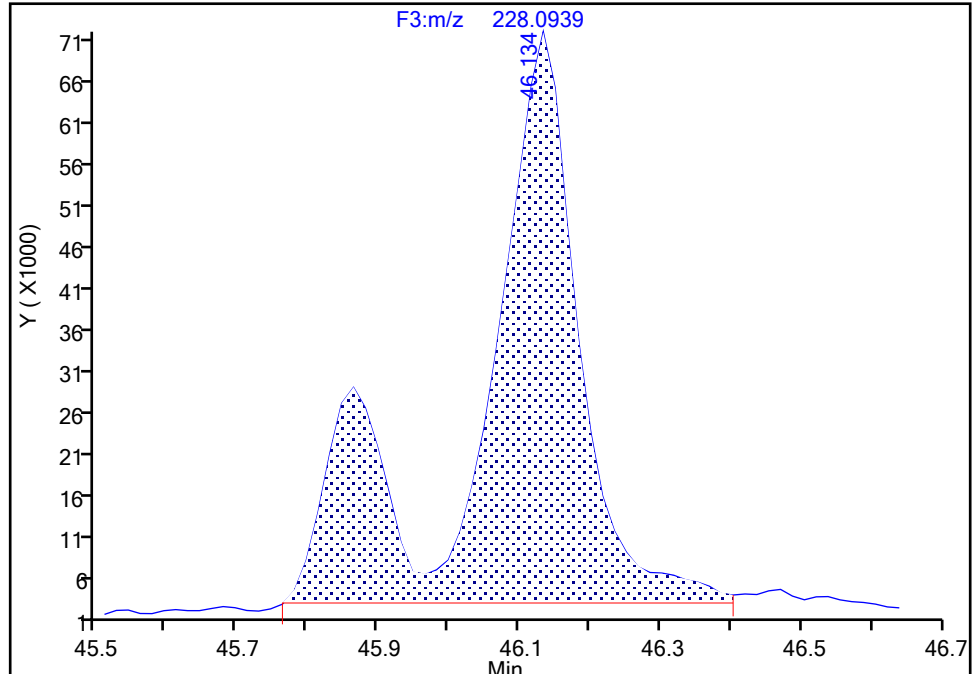
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Chrysene, CAS: 218-01-9

Signal: 1

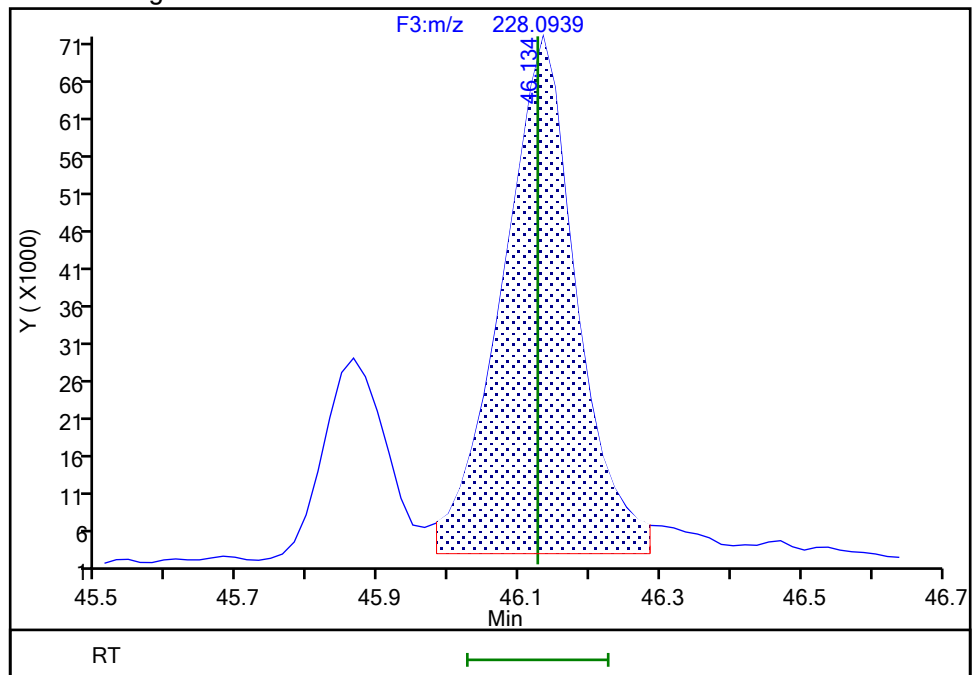
RT: 46.13
Area: 681230
Amount: 1.888127
Amount Units: pg/ul

Processing Integration Results



RT: 46.13
Area: 506368
Amount: 1.403472
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:11 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

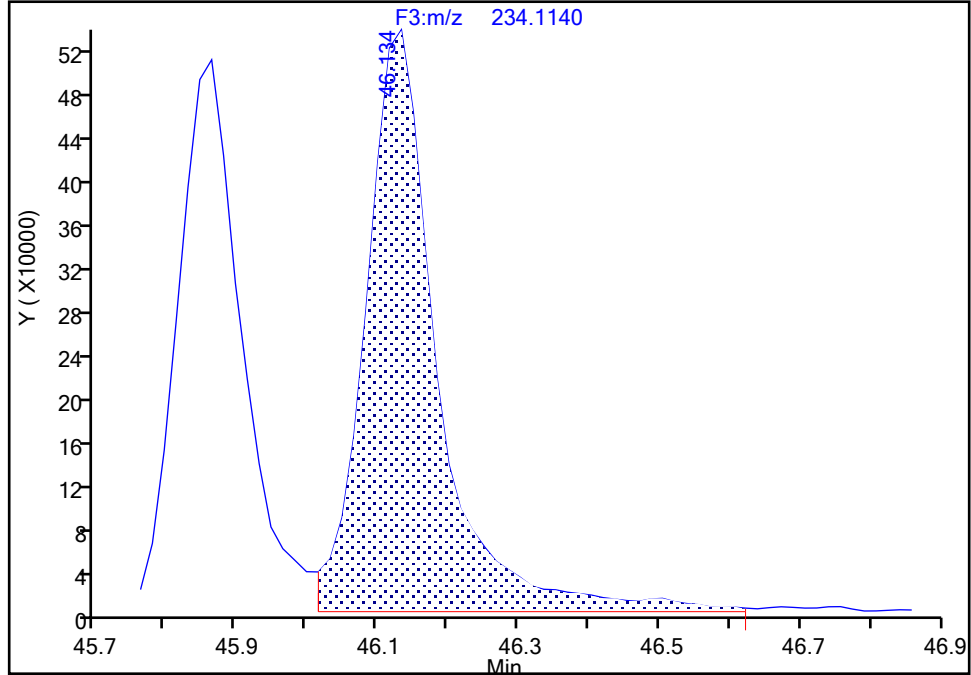
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Chrysene, CAS: 1397177-72-8

Signal: 1

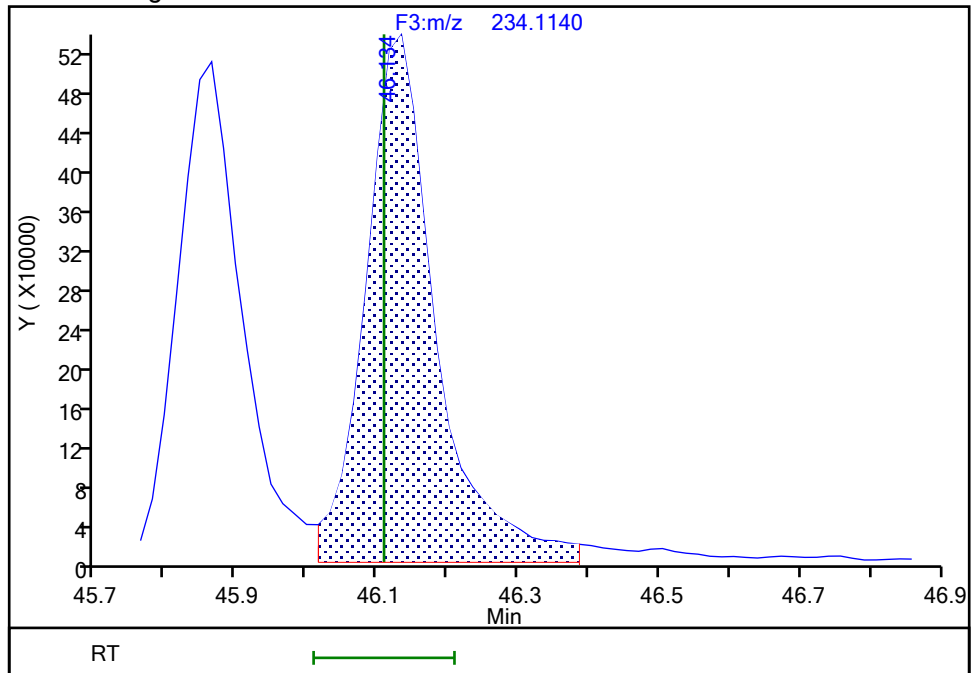
RT: 46.13
Area: 3787349
Amount: 7.111396
Amount Units: pg/ul

Processing Integration Results



RT: 46.13
Area: 3676144
Amount: 6.902589
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:22 -04:00:00 (UTC)

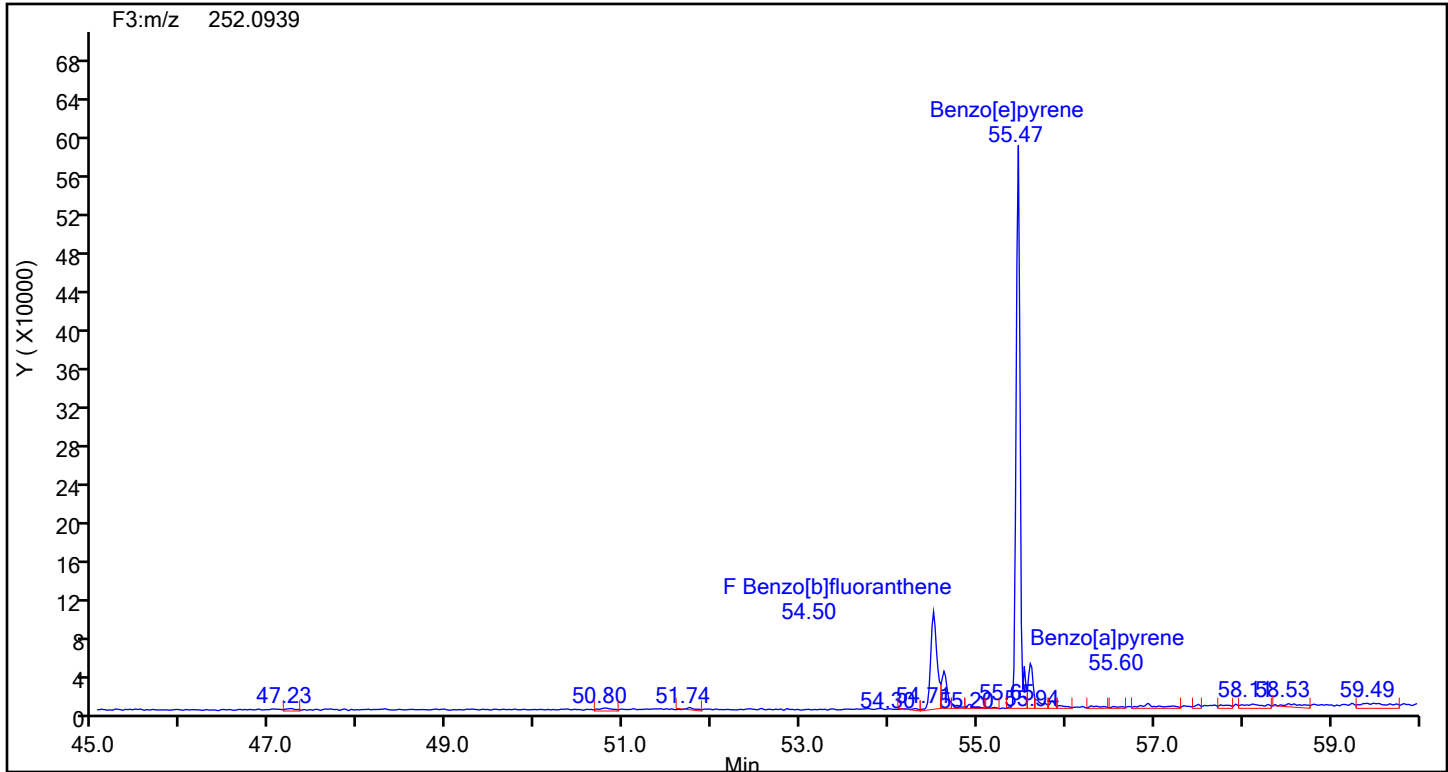
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

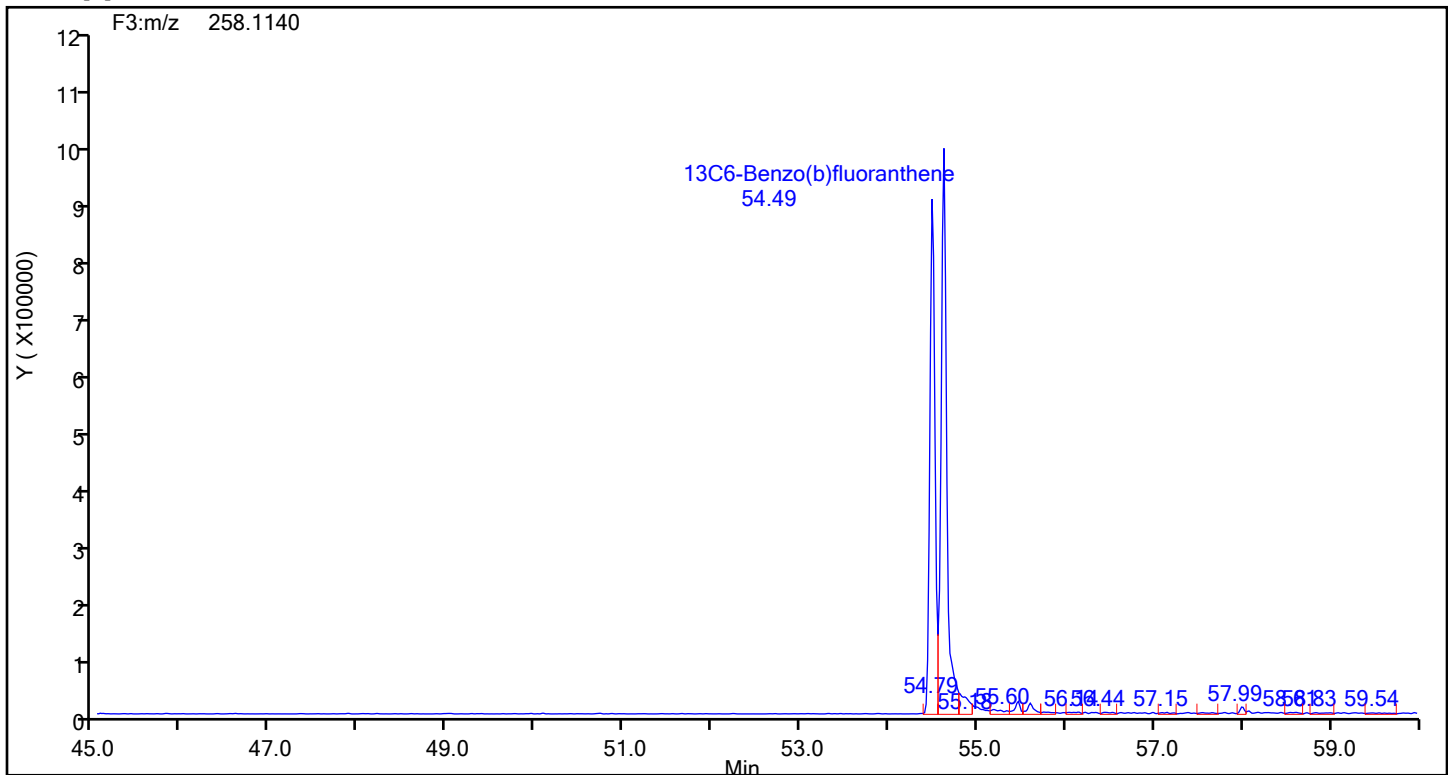
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

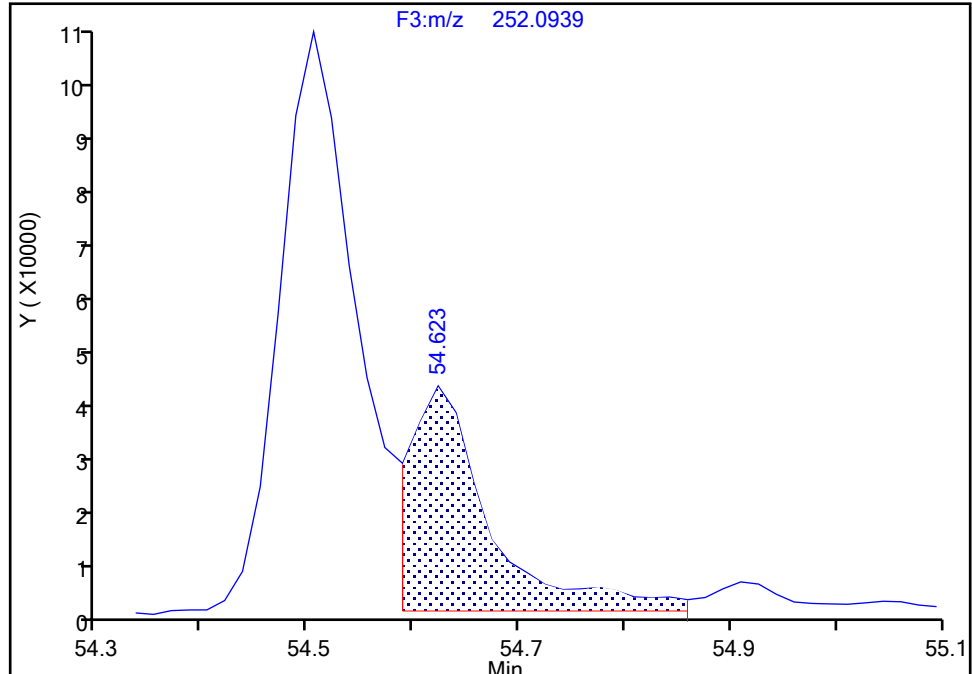
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

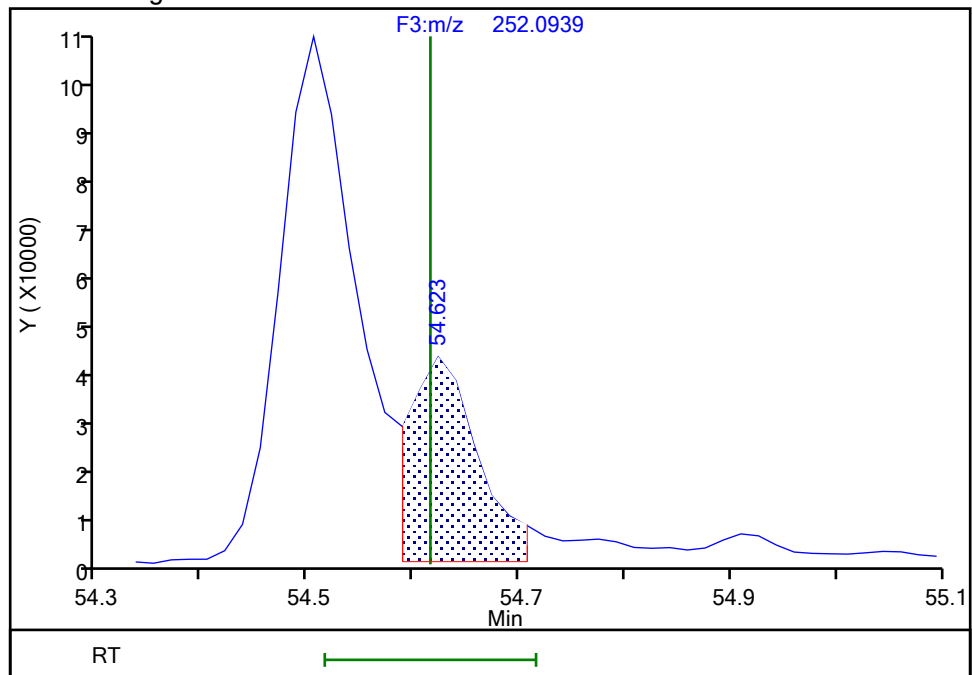
RT: 54.62
Area: 204363
Amount: 0.397459
Amount Units: pg/ul

Processing Integration Results



RT: 54.62
Area: 187447
Amount: 0.364559
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

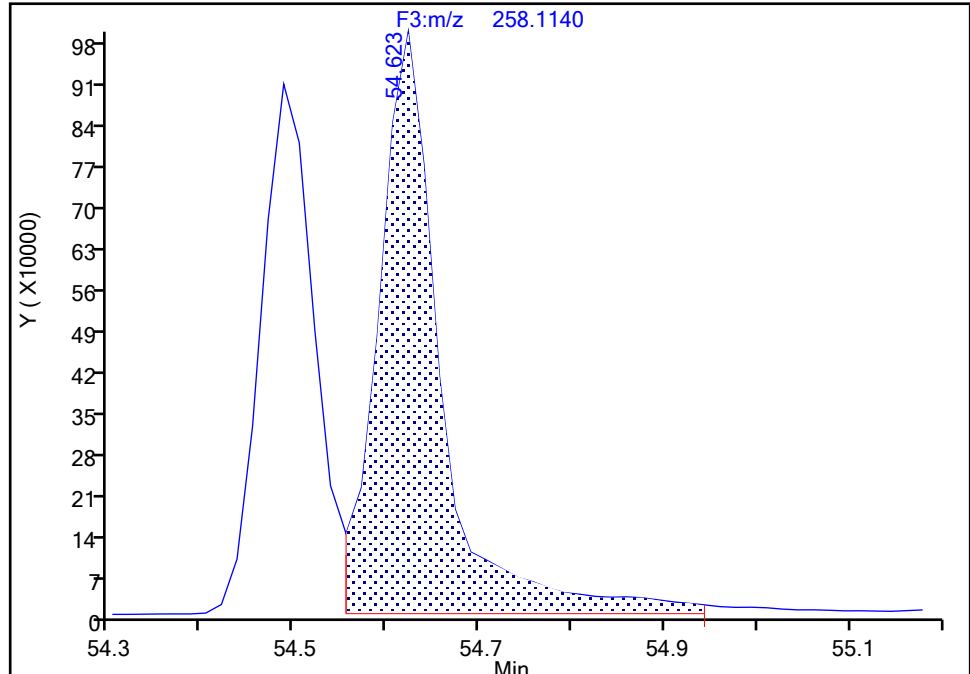
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Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Benzo(k)fluoranthene, CAS: 1397194-60-3

Signal: 1

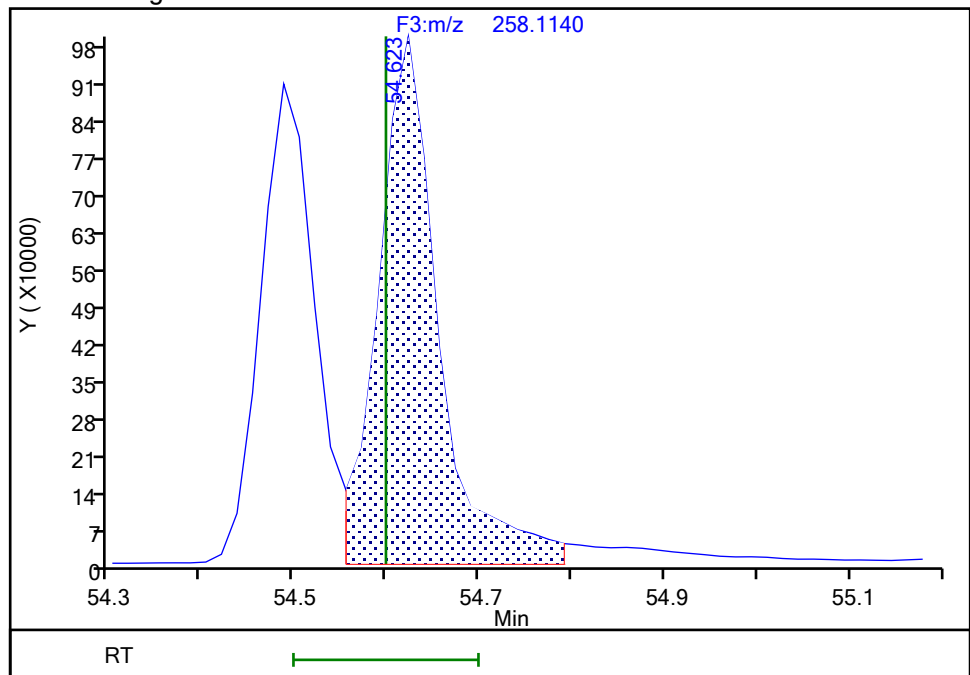
RT: 54.62
Area: 4718230
Amount: 8.242136
Amount Units: pg/ul

Processing Integration Results



RT: 54.62
Area: 4561990
Amount: 7.969205
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:41 -04:00:00 (UTC)

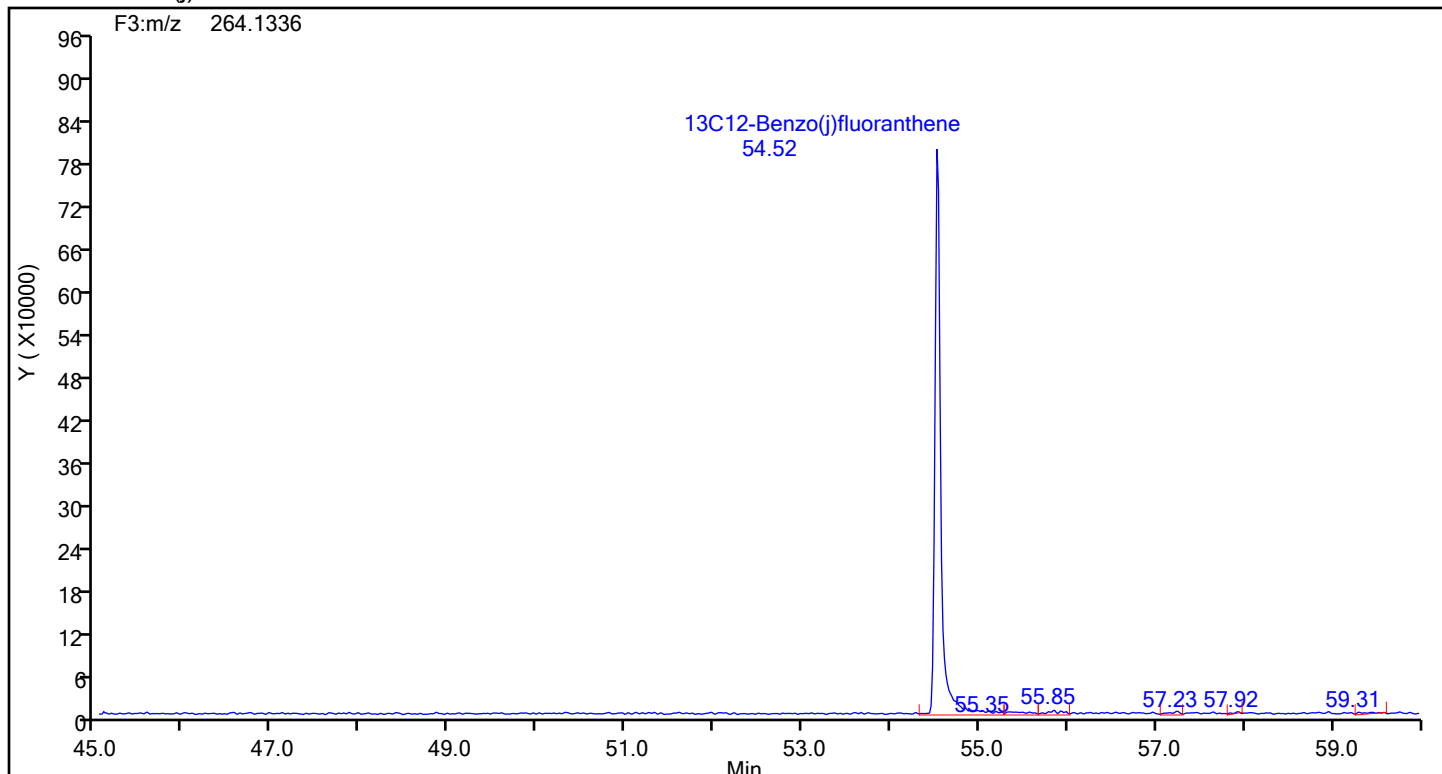
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

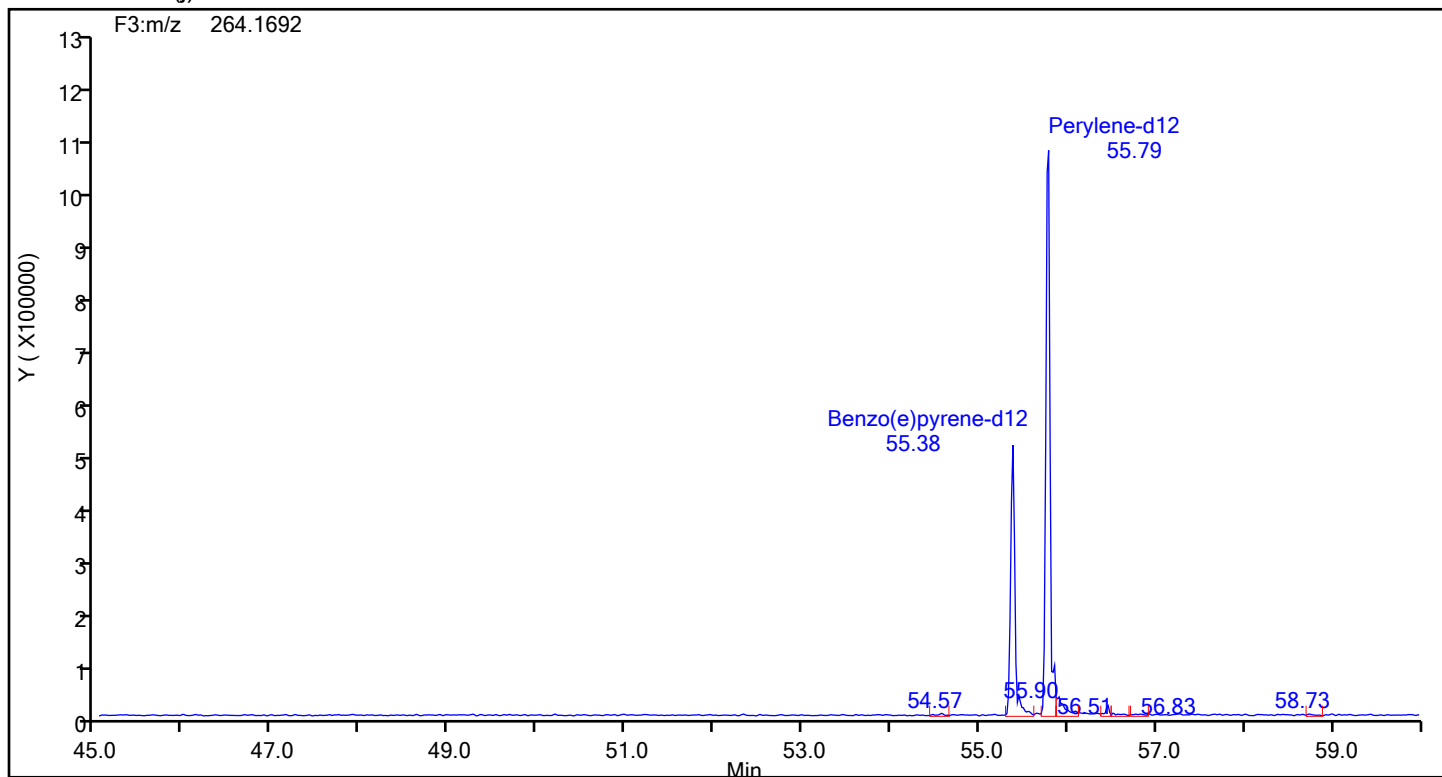
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

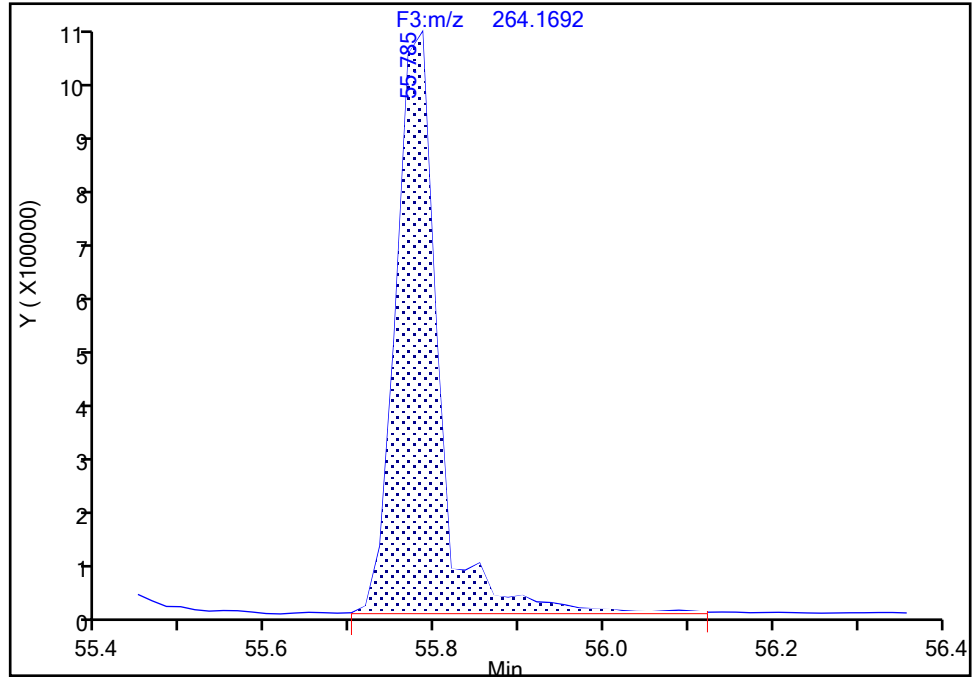
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

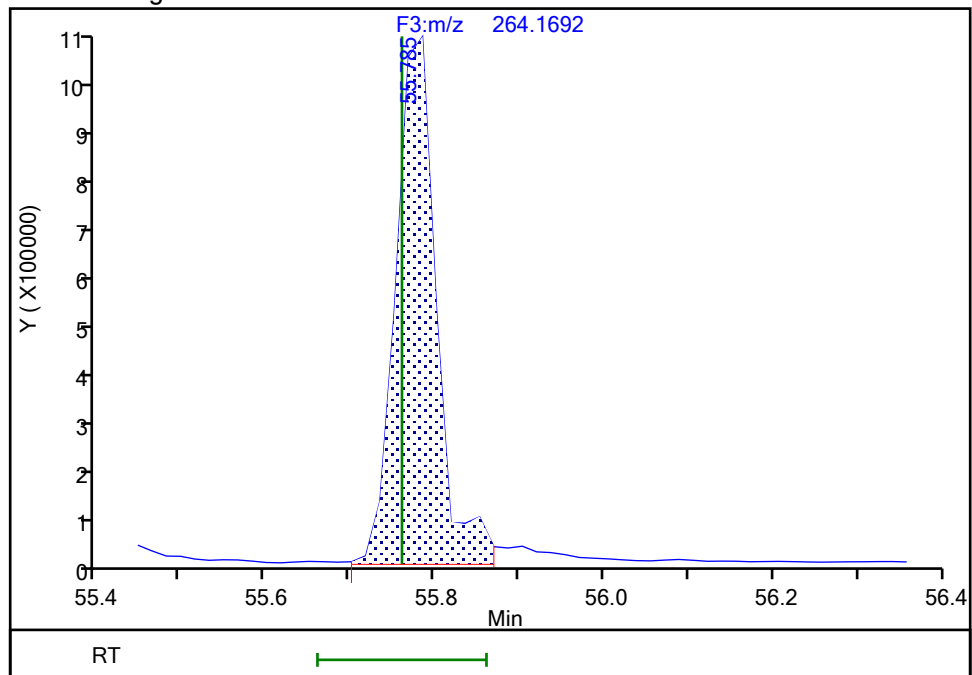
RT: 55.79
Area: 3540823
Amount: 9.086775
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 3358192
Amount: 8.618091
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:18 -04:00:00 (UTC)

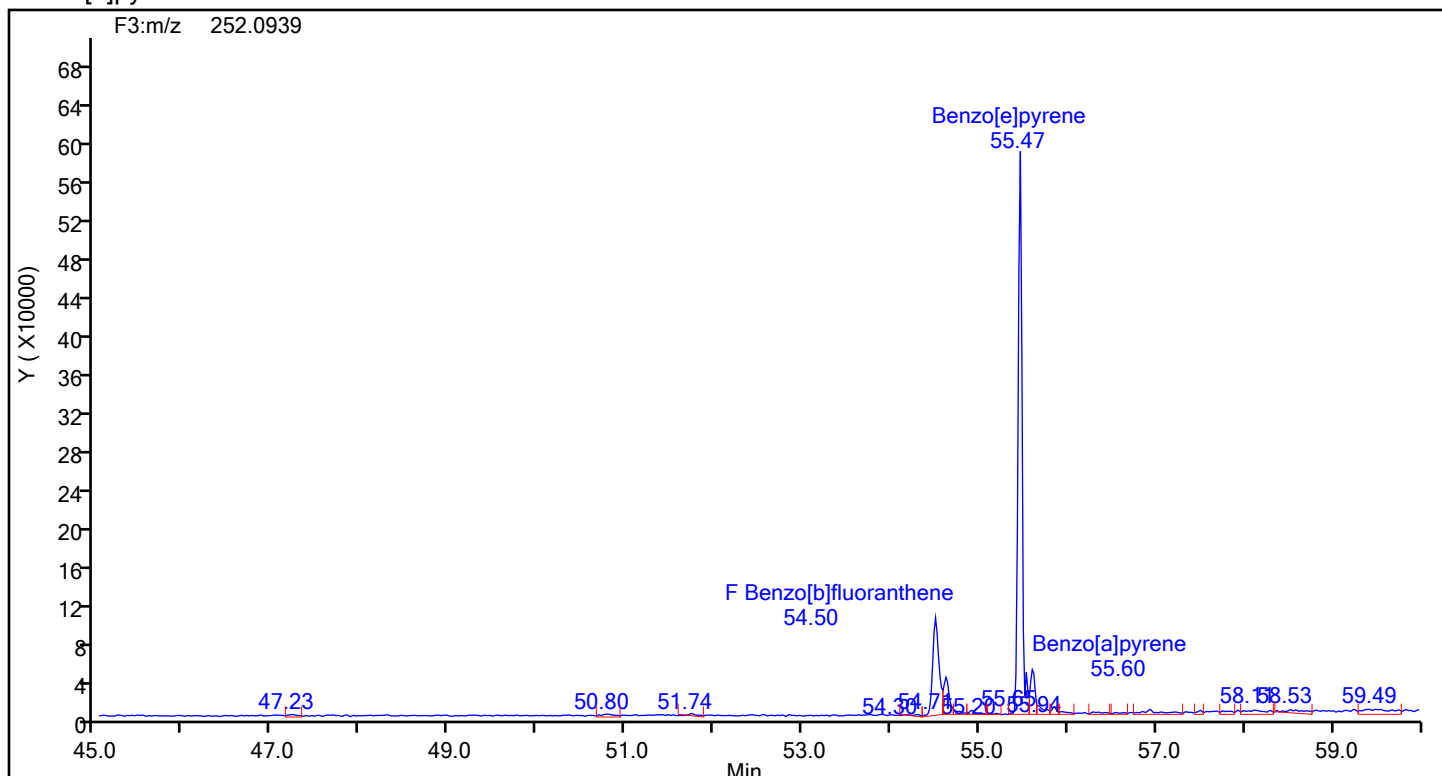
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

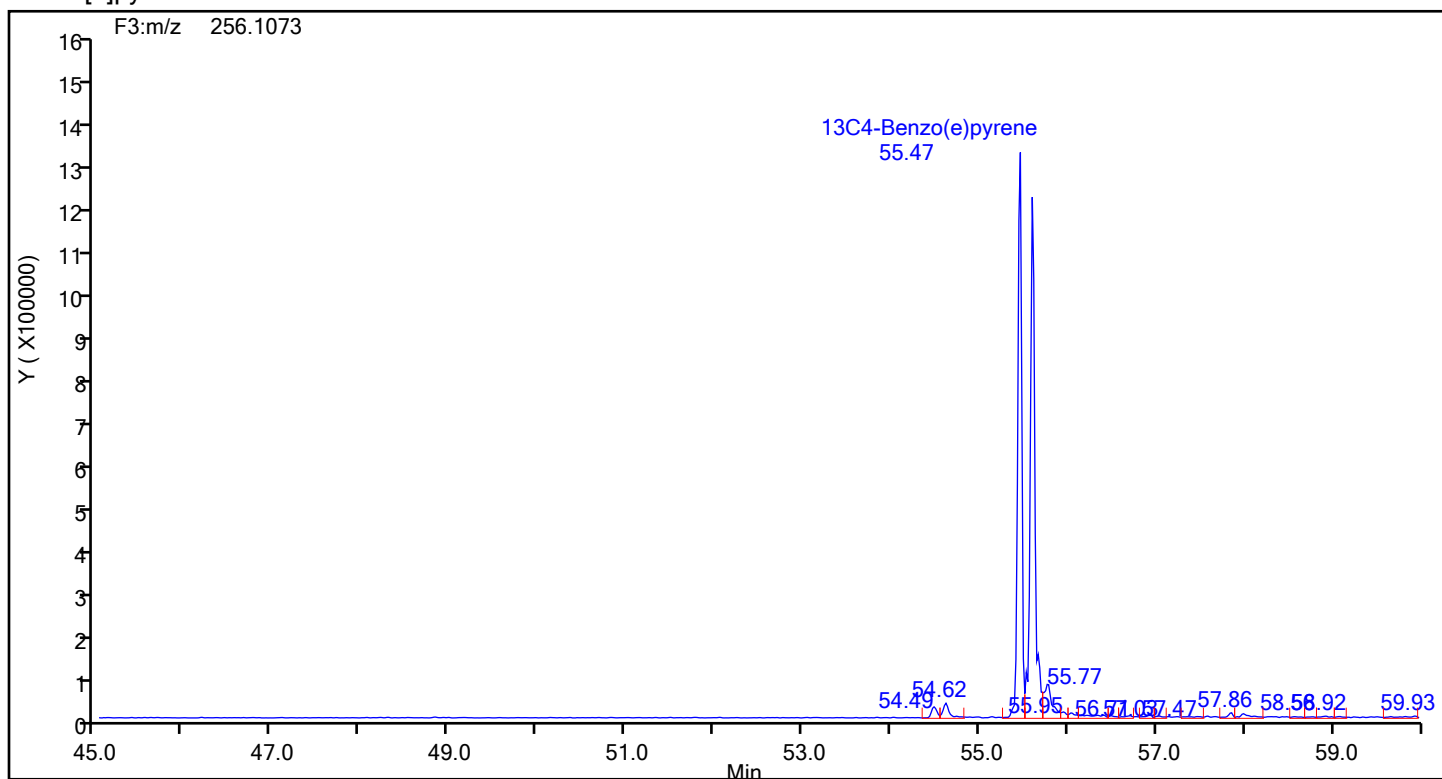
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

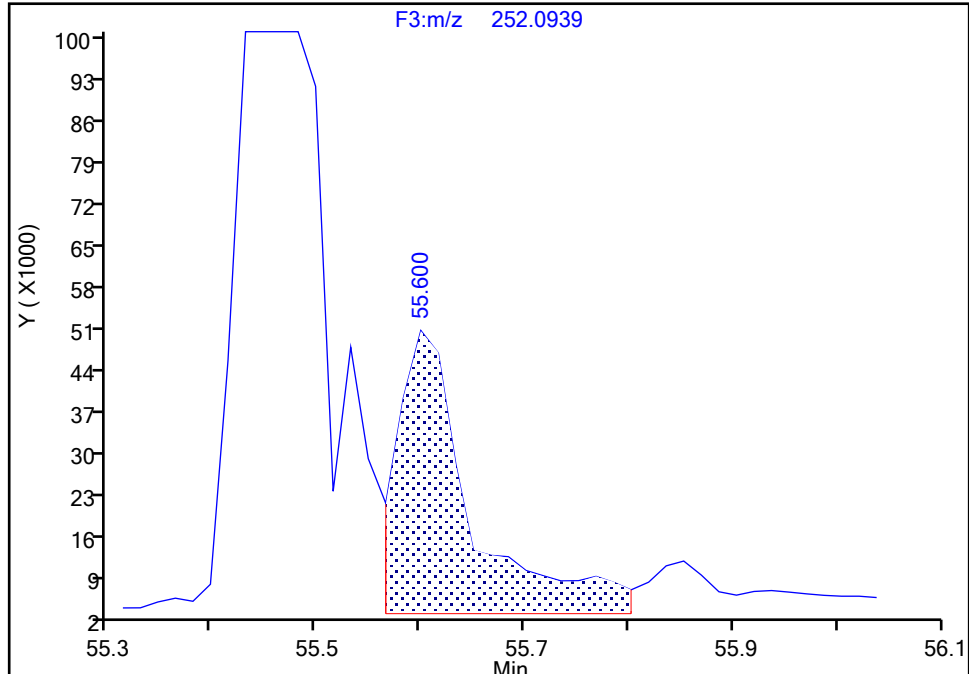
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

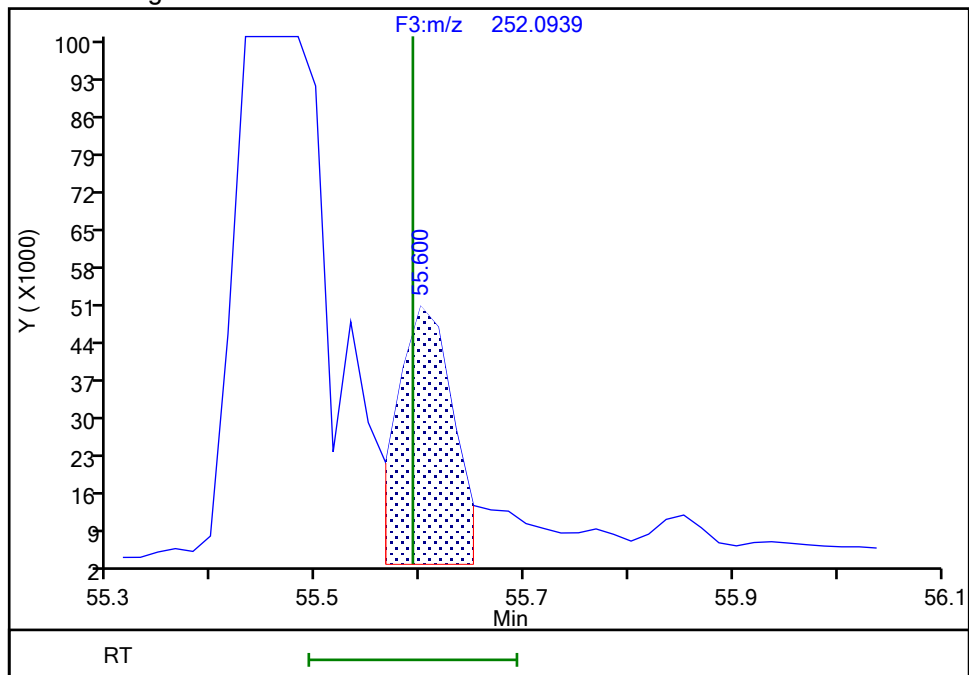
RT: 55.60
Area: 234640
Amount: 0.477281
Amount Units: pg/ul

Processing Integration Results



RT: 55.60
Area: 184917
Amount: 0.376139
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:42 -04:00:00 (UTC)

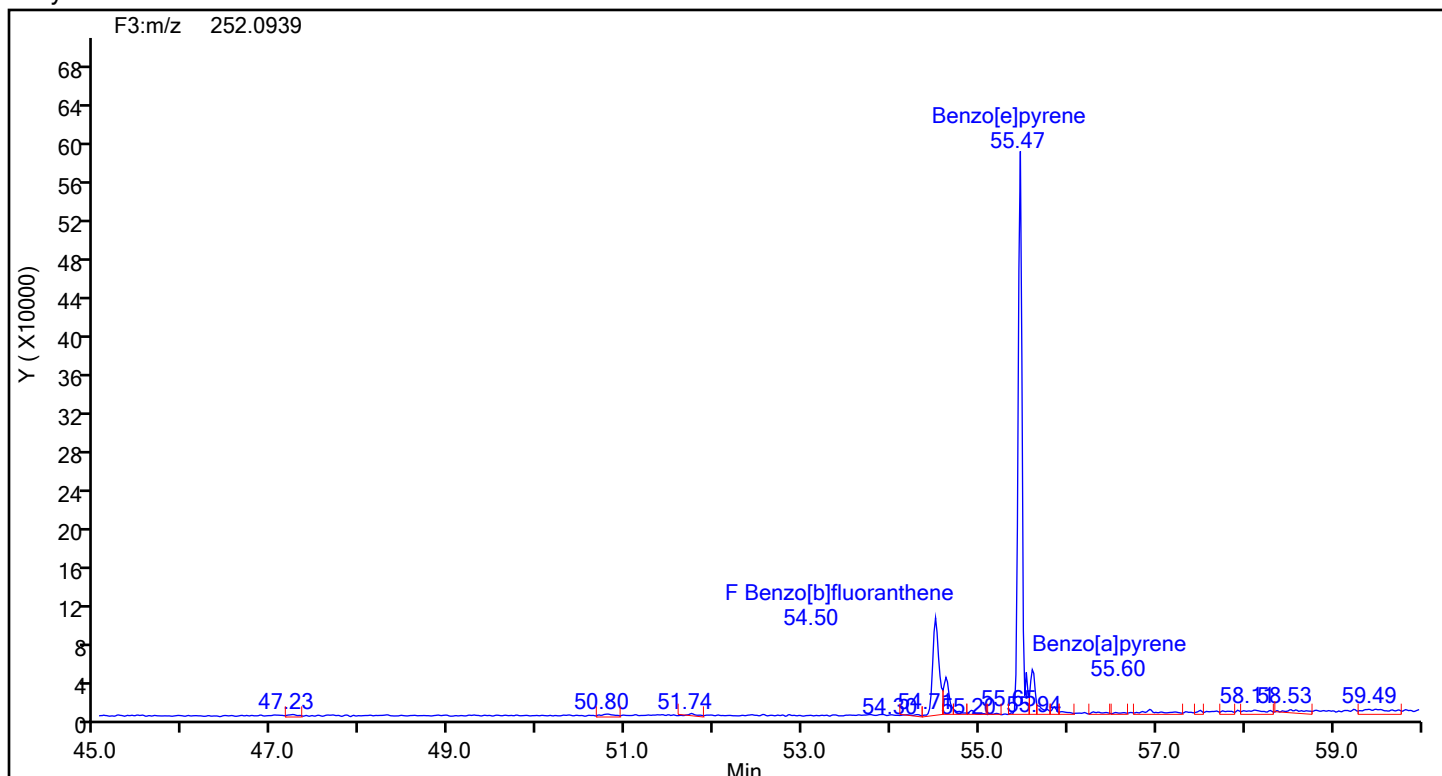
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

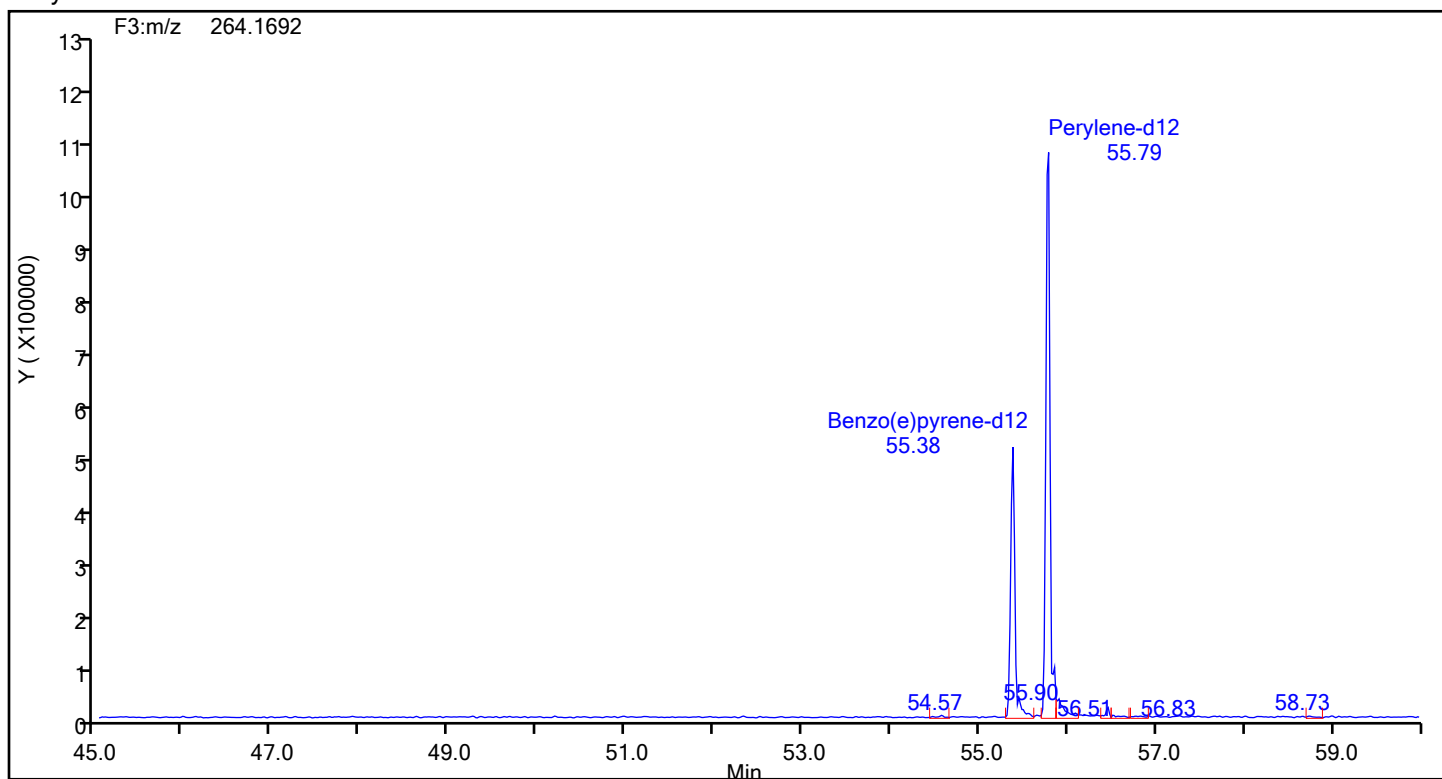
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88999 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

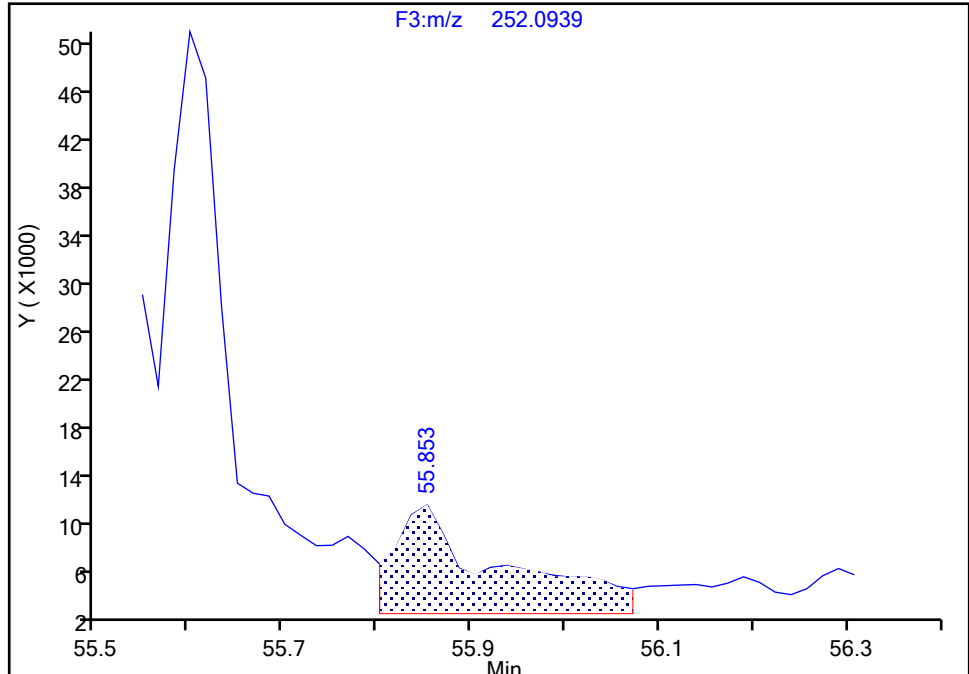
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

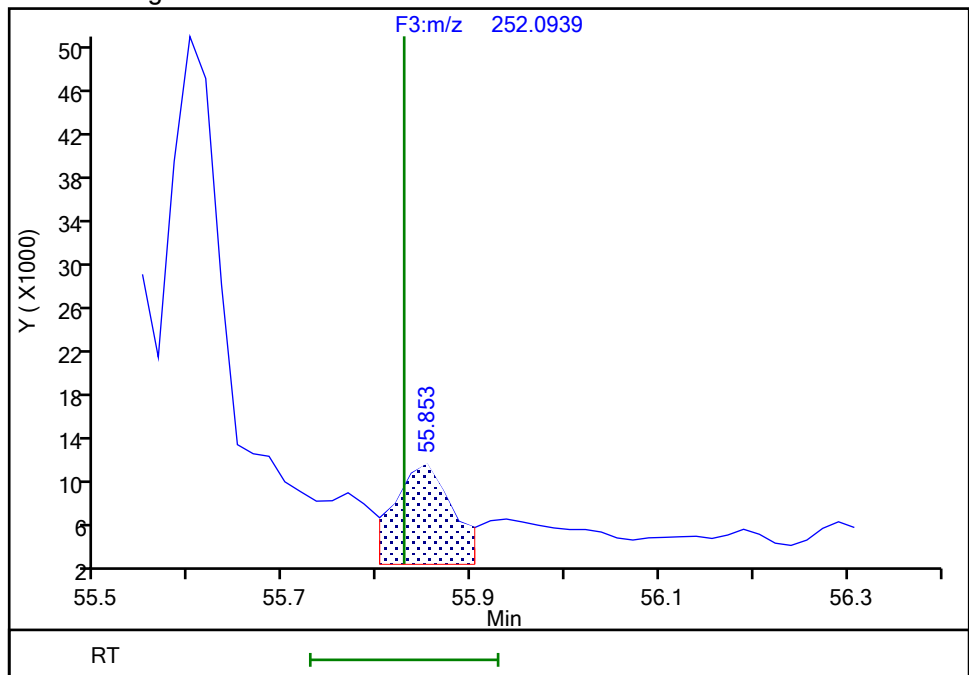
RT: 55.85
Area: 69685
Amount: 0.145042
Amount Units: pg/ul

Processing Integration Results



RT: 55.85
Area: 40875
Amount: 0.085077
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

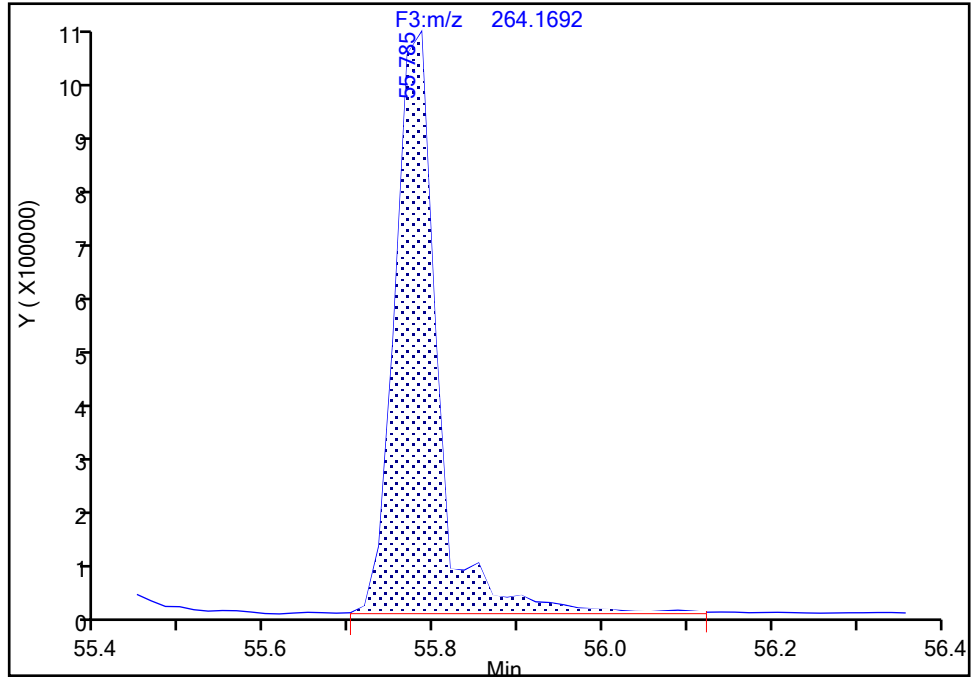
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

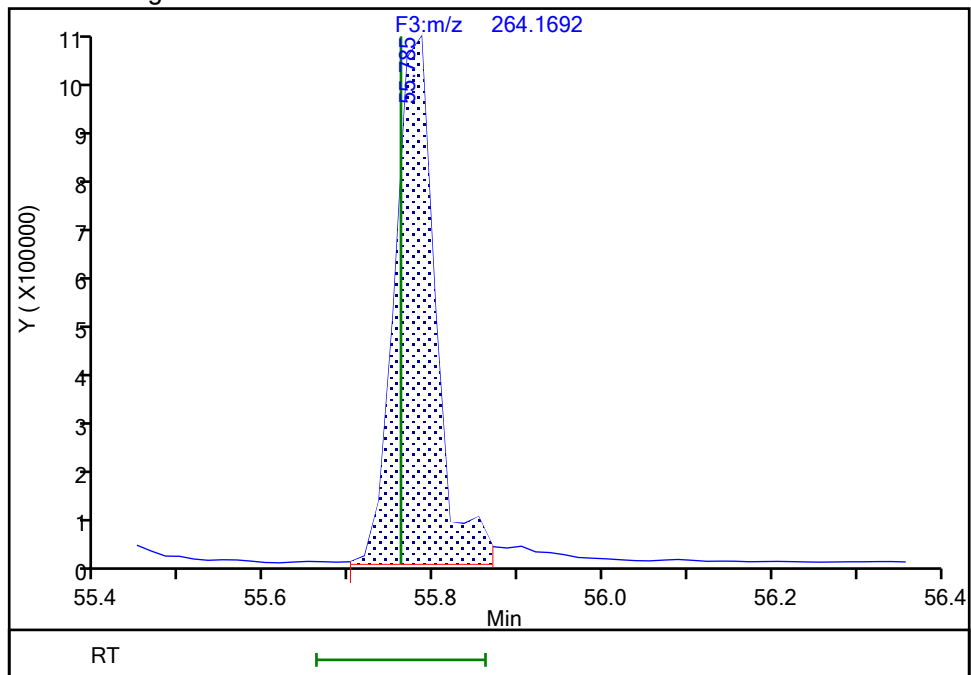
RT: 55.79
Area: 3540823
Amount: 9.086775
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 3358192
Amount: 8.618091
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:18 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d

Injection Date: 20-Jul-2024 05:09:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

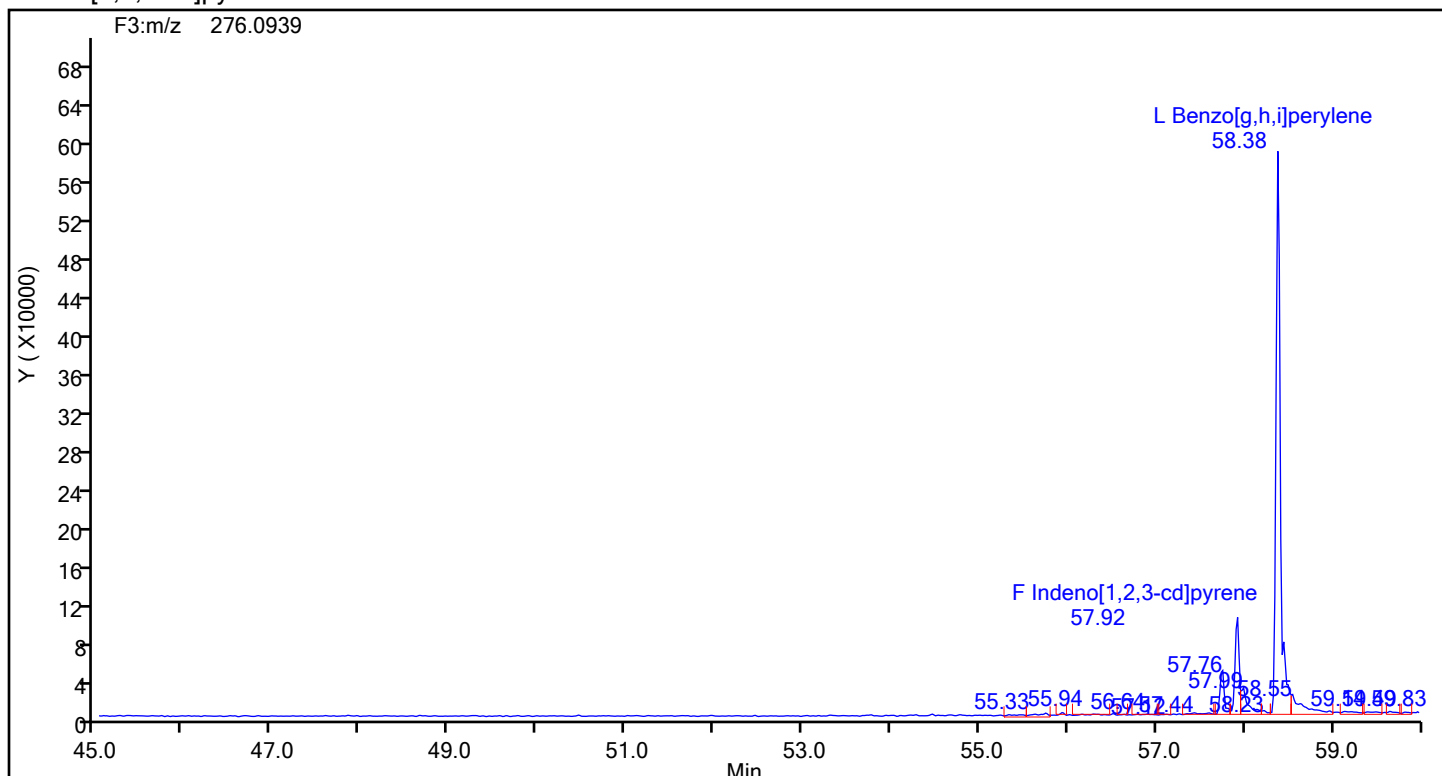
Worklist#: 88999

Sample Line#: 6

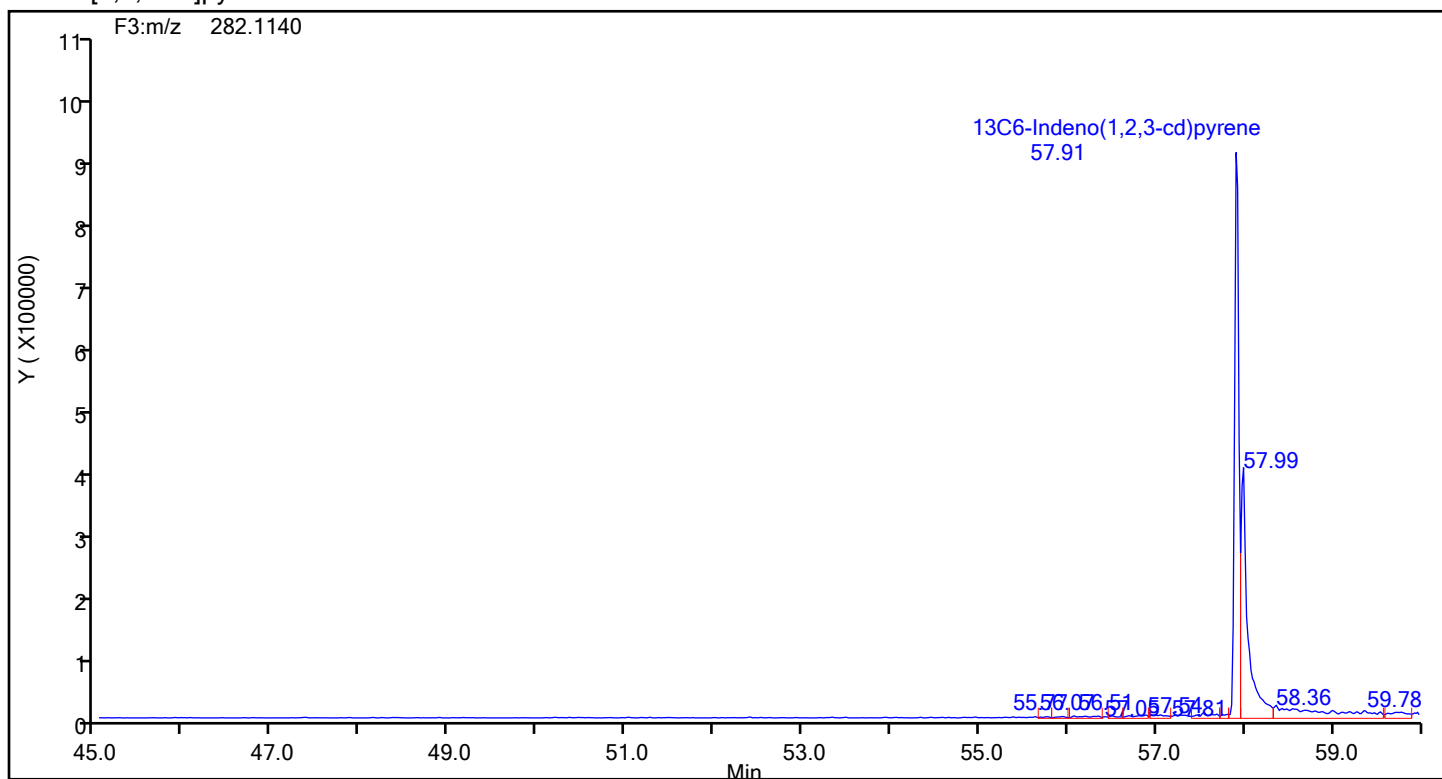
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d

Injection Date: 20-Jul-2024 05:09:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

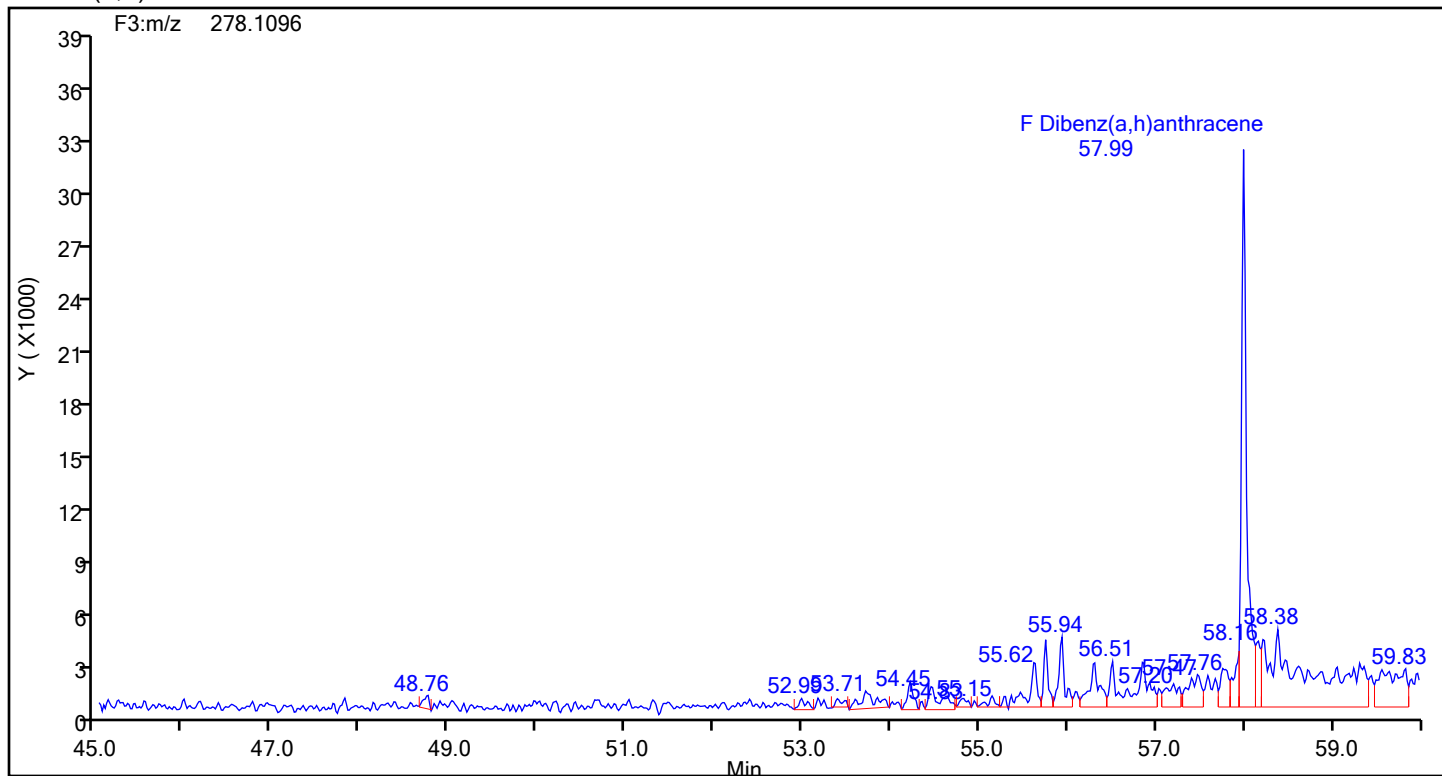
Worklist#: 88999

Sample Line#: 6

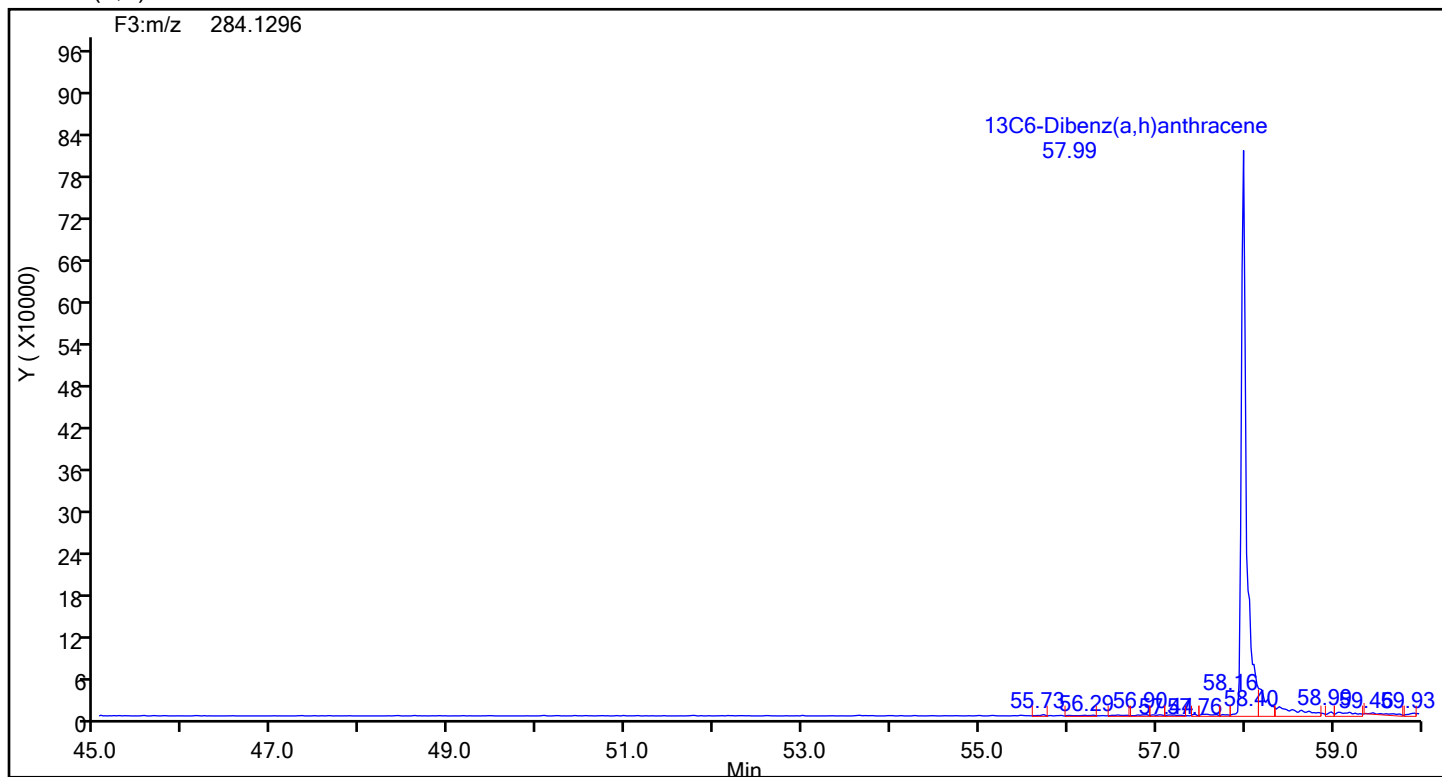
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

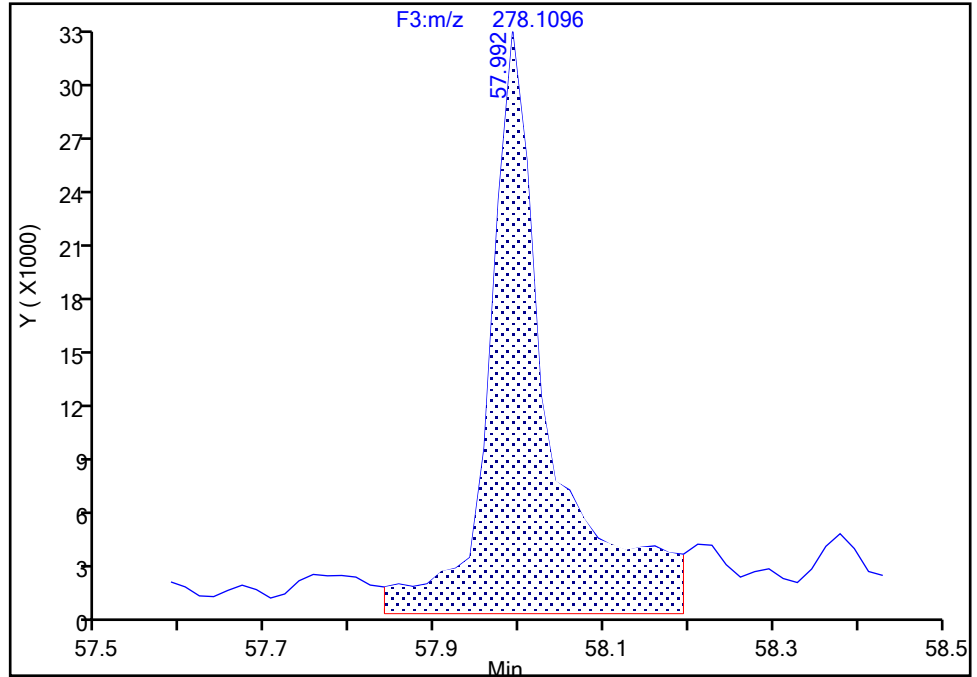
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

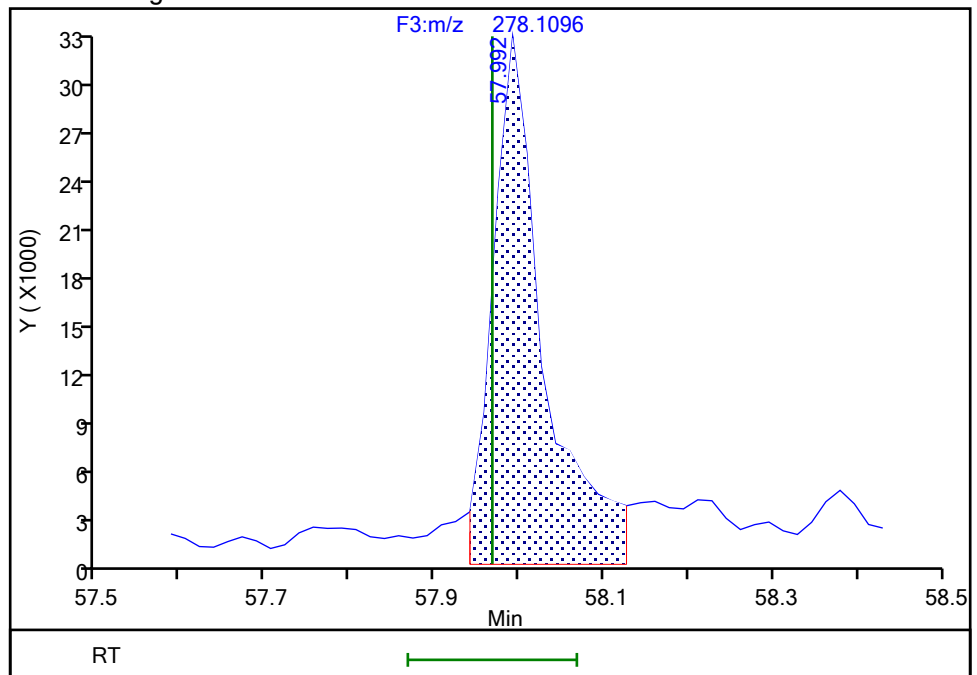
RT: 57.99
Area: 158346
Amount: 0.420781
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 135224
Amount: 0.359338
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:26 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

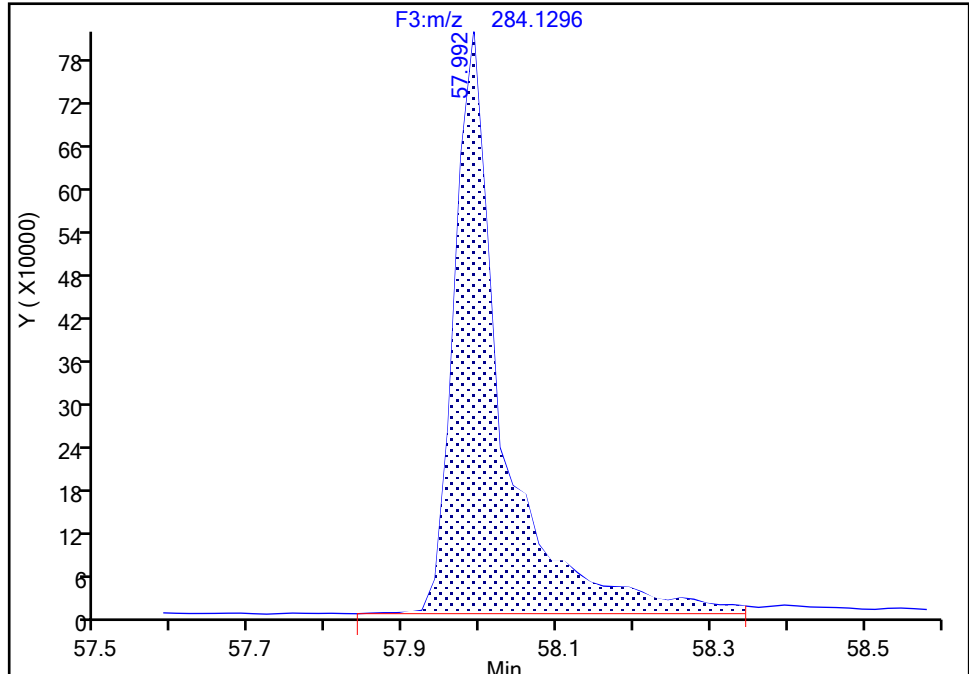
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

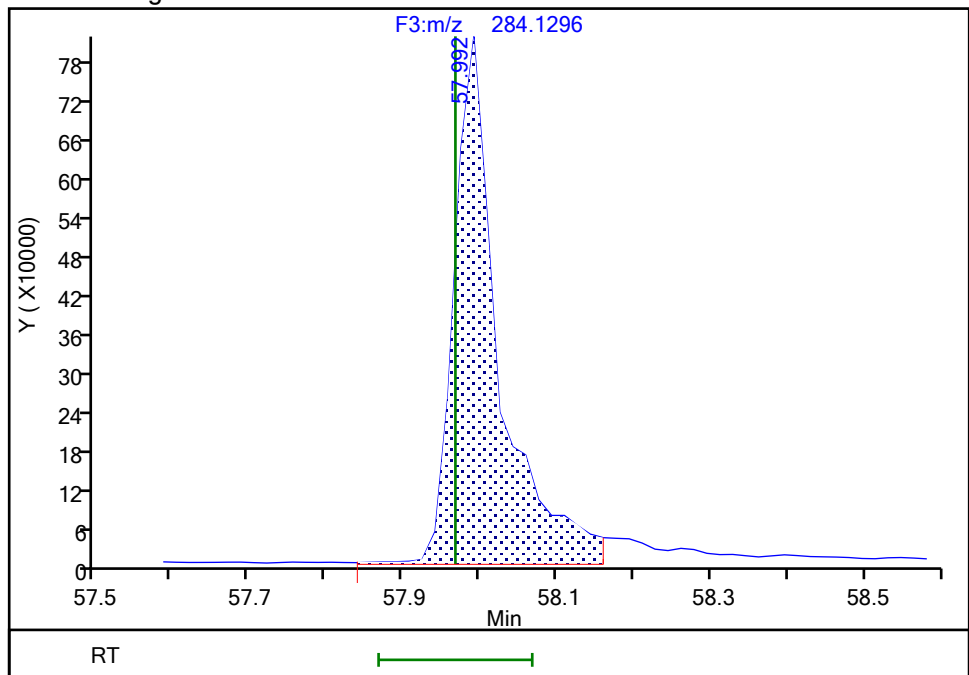
RT: 57.99
Area: 3570415
Amount: 10.347168
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 3326174
Amount: 9.639350
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:23:26 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d

Injection Date: 20-Jul-2024 05:09:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED

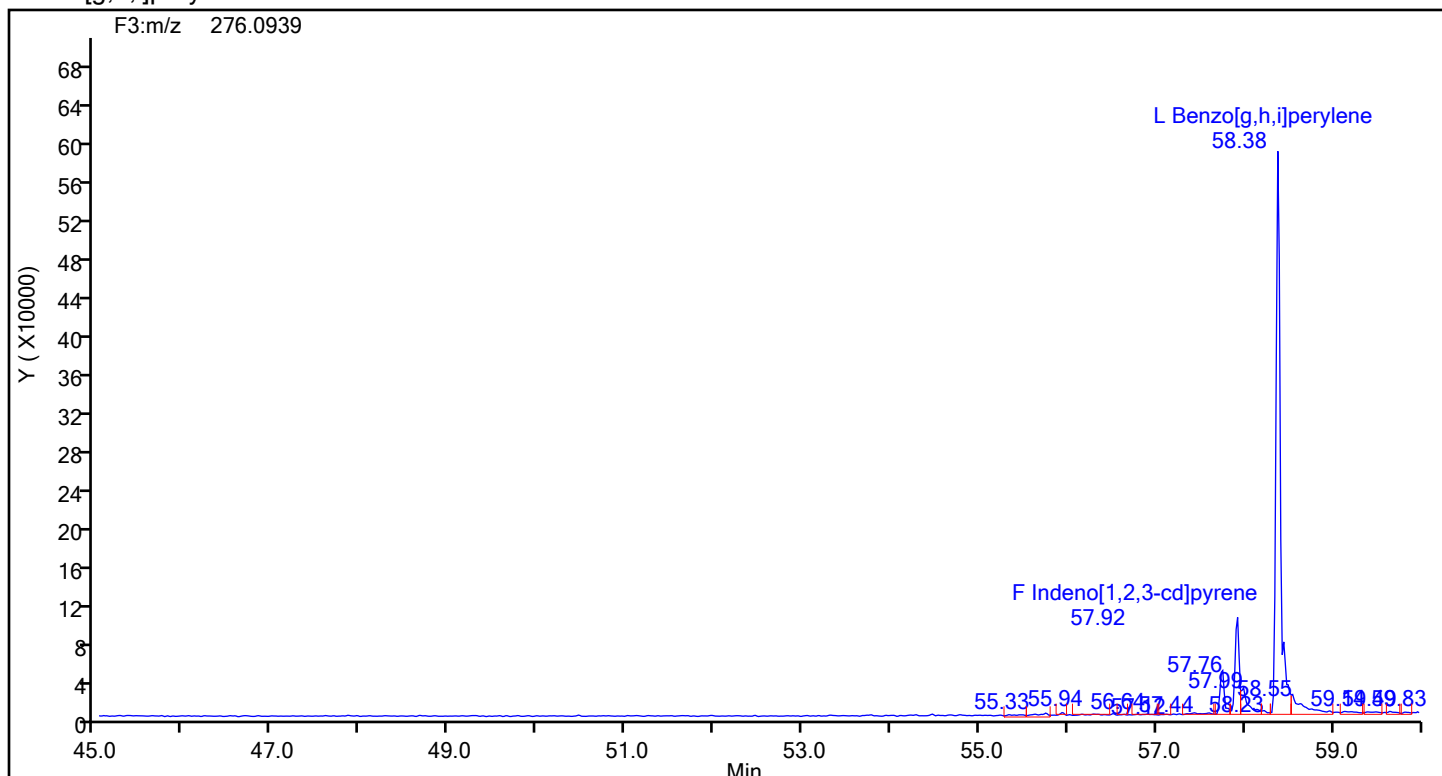
Worklist#: 88999

Sample Line#: 6

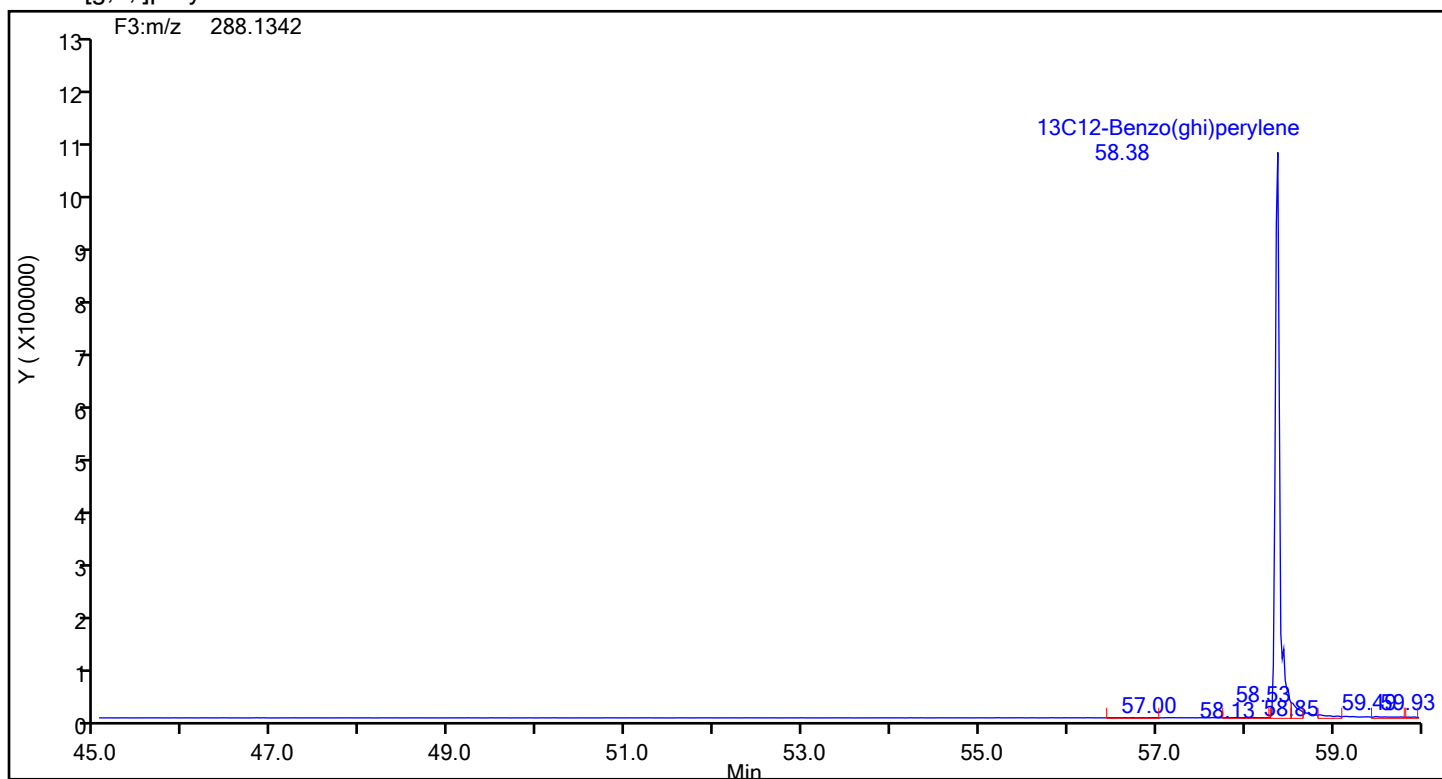
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

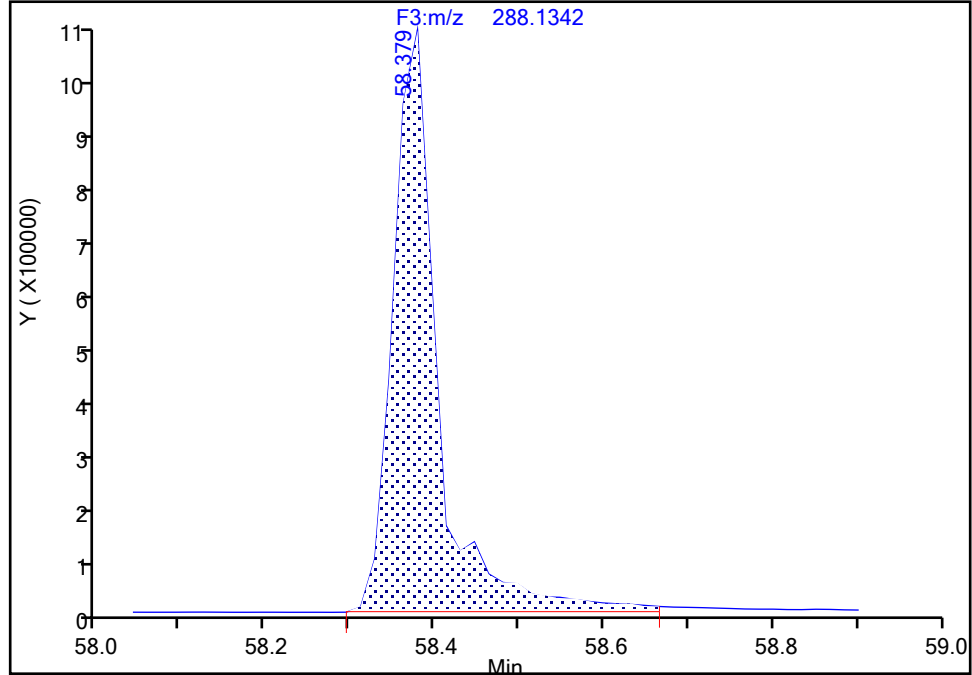
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Injection Date: 20-Jul-2024 05:09:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-2-C Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

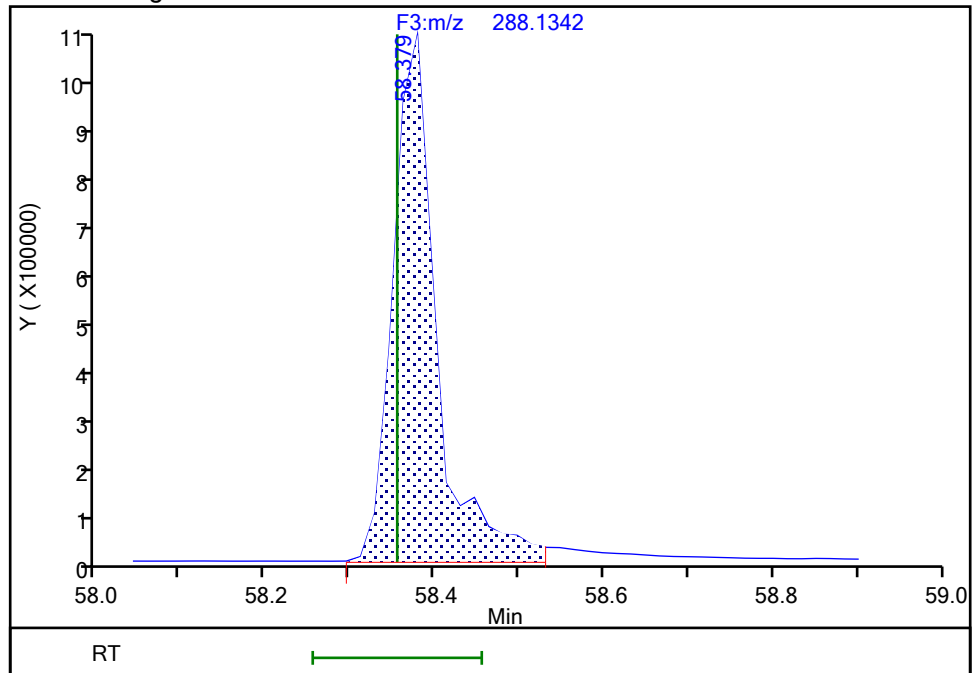
RT: 58.38
Area: 3771022
Amount: 9.046018
Amount Units: pg/ul

Processing Integration Results



RT: 58.38
Area: 3639903
Amount: 8.731487
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:24:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-2-c.d
Lims ID: 140-37232-A-2-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 05:09:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 11:25:06 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:25:06

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.7837	78.37
13C6-Benzo(c)fluorene	100.0	9.94	99.38
13C12-Benzo(j)fluoranthene	100.0	8.40	83.98

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 3 - COMBINED</u>	Lab Sample ID: <u>140-37232-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-3-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 14:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 19:27</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	754	B *+	750	750	0.661
91-57-6	2-Methylnaphthalene	271	J B	750	750	0.452
208-96-8	Acenaphthylene	9.30	J B	30.0	30.0	0.464
83-32-9	Acenaphthene	55.7	J B	300	300	0.544
86-73-7	Fluorene	109	J B	300	300	0.710
85-01-8	Phenanthrene	334	B	60.0	60.0	0.756
120-12-7	Anthracene	36.1	J B	300	300	0.731
206-44-0	Fluoranthene	49.5	J B	60.0	60.0	0.234
129-00-0	Pyrene	56.4	J B	60.0	60.0	0.229
56-55-3	Benzo[a]anthracene	3.25	J B	60.0	60.0	0.967
218-01-9	Chrysene	18.1	J B	60.0	60.0	0.908
205-99-2	Benzo[b]fluoranthene	17.7	J B	300	300	0.189
207-08-9	Benzo[k]fluoranthene	5.25	J B	60.0	60.0	0.139
192-97-2	Benzo[e]pyrene	22.8	J B	60.0	60.0	0.179
50-32-8	Benzo[a]pyrene	8.42	J B	30.0	30.0	0.123
198-55-0	Perylene	4.00	J B	30.0	30.0	0.117
193-39-5	Indeno[1,2,3-cd]pyrene	10.0	J B	30.0	30.0	0.119
53-70-3	Dibenz(a,h)anthracene	10.2	J B	60.0	60.0	0.0735
191-24-2	Benzo[g,h,i]perylene	21.2	J B	60.0	60.0	0.101

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 3 - COMBINED</u>	Lab Sample ID: <u>140-37232-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-3-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 14:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 19:27</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	62		20-130
STL03357	13C6-2-Methylnaphthalene	63		20-130
189811-56-1	13C6-Acenaphthylene	90		20-130
189811-57-2	13C6-Acenaphthene	84		20-130
STL00616	13C6-Fluorene	89		20-130
1397194-60-3	13C6-Fluoranthrene	92		20-130
1397214-90-2	13C3-Pyrene	89		20-130
917378-11-1	13C6-Benzo (a) anthracene	60		20-130
1397177-72-8	13C6-Chrysene	63		20-130
STL03358	13C6-Benzo (b) fluoranthene	67		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	83		20-130
STL03382	13C4-Benzo (e) pyrene	63		20-130
STL03359	13C4-Benzo (a) pyrene	85		20-130
1520-96-3	Perylene-d12	85		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	81		20-130
STL03360	13C6-Dibenz (a,h) anthracene	89		20-130
350820-11-0	13C12-Benzo (ghi) perylene	80		20-130
189811-60-7	13C6-Anthracene	84		20-130
1189955-53-0	13C6-Phenanthrene	81		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Lims ID: 140-37232-A-3-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 19:27:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033585-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 09:26:00 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 09:26:00

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	2802420		3.3746	6.181	6.181	0.001264	0.001264	61.81	
Naphthalene	11:28	18169318		1.2893	50.3	50.3	0.0441	0.0441		
D 13C6-2-Methylnaphthalene	13:48	1360345		1.6031	6.316	6.316	0.000409	0.000409	63.16	
2-Methylnaphthalene	13:48	3147471		1.2786	18.1	18.1	0.0302	0.0302		
D 13C6-Acenaphthylene	16:38	2002588		1.6520	9.022	9.022	0.001549	0.001549	90.22	
Acenaphthylene	16:38	161491		2.3661	0.6202	0.6202	0.0309	0.0309		
* Acenaphthene-d10	17:13	671826		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	1100389		0.9792	8.364	8.364	0.001787	0.001787	83.64	
Acenaphthene	17:20	518827		1.2697	3.714	3.714	0.0362	0.0362		
Fluorene	19:36	971449		1.2532	7.296	7.296	0.0473	0.0473		
D 13C6-Fluorene	19:36	1062434		0.8898	8.886	8.886	0.006637	0.006637	88.86	
D 13C6-Phenanthrene	24:57	1648131		0.5724	8.062	8.062	0.001039	0.001039	80.62	
Phenanthrene	24:57	4052274		1.1044	22.3	22.3	0.0504	0.0504		
\$ Anthracin-d10	25:10	102313		0.4257	0.6730	0.6730	0.000642	0.000642	67.30	
D 13C6-Anthracene	25:17	1353934		0.4523	8.381	8.381	0.001315	0.001315	83.81	
Anthracene	25:17	442387		1.3586	2.405	2.405	0.0487	0.0487		
D 13C6-Fluoranthrene	33:41	3954011		1.1994	9.231	9.231	0.0180	0.0180	92.31	
Fluoranthene	33:42	1502943		1.1513	3.301	3.301	0.0156	0.0156		
* Pyrene-d10	35:14	1785610		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:22	4311803		1.3512	8.935	8.935	0.009872	0.009872	89.35	
Pyrene	35:22	1727903		1.0652	3.762	3.762	0.0153	0.0153		
\$ 13C6-Benzo(c)fluorene	39:05	1891709		0.5136	10.3	10.3	0.005069	0.005069	103	
D 13C6-Benzo(a)anthracene	45:53	3583017		1.5189	5.991	5.991	0.007492	0.007492	59.91	
Benzo[a]anthracene	45:54	75703		0.9739	0.2170	0.2170	0.0644	0.0644		M
D 13C6-Chrysene	46:10	4035021		1.6287	6.292	6.292	0.006987	0.006987	62.92	M
Chrysene	46:09	478016		0.9815	1.207	1.207	0.0605	0.0605		
D 13C6-Benzo(b)fluoranthene	54:31	3848680		1.4621	6.686	6.686	0.001542	0.001542	66.86	
Benzo[b]fluoranthene	54:31	510035		1.1249	1.178	1.178	0.0126	0.0126		
\$ 13C12-Benzo(j)fluoranthene	54:34	3695324		1.3558	6.922	6.922	0.007177	0.007177	69.22	M
D 13C6-Benzo(k)fluoranthene	54:39	5712549		1.7507	8.287	8.287	0.001288	0.001288	82.87	M
Benzo[k]fluoranthene	54:39	225260		1.1271	0.3499	0.3499	0.009268	0.009268		M
* Benzo(e)pyrene-d12	55:24	1968684		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:29	4046386		1.6368	6.278	6.278	0.004091	0.004091	62.78	
Benzo[e]pyrene	55:29	616844		1.0013	1.522	1.522	0.0119	0.0119		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:38	5209958		1.5508	8.532	8.532	0.004318	0.004318	85.32	
Benzo[a]pyrene	55:38	325375		1.1130	0.5611	0.5611	0.008206	0.008206		M
D Perylene-d12	55:48	4009419		1.1917	8.545	8.545	0.007729	0.007729	85.45	
Perylene	55:52	152929		1.4307	0.2666	0.2666	0.007782	0.007782		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	3272553		1.0218	8.134	8.134	0.008462	0.008462	81.34	
Indeno[1,2,3-cd]pyrene	57:57	246300		1.1249	0.6690	0.6690	0.007957	0.007957		M
D 13C6-Dibenz(a,h)anthracene	58:01	3697600		1.0553	8.899	8.899	0.004562	0.004562	88.99	M
Dibenz(a,h)anthracene	58:01	283960		1.1314	0.6788	0.6788	0.004902	0.004902		
D 13C12-Benzo(ghi)perylene	58:24	3997355		1.2749	7.963	7.963	0.001680	0.001680	79.63	
Benzo[g,h,i]perylene	58:24	724437		1.2838	1.412	1.412	0.006711	0.006711		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Lims ID: 140-37232-A-3-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 19:27:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033585-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 09:26:00 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 09:26:00

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:28	11:27	1	0.666	2802420	965993	78	195	12385		
Naphthalene											
128.0626	11:28	11:27	1	1.001	18169318	6081439	2195	5487	2771		
13C6-2-Methylnaphthalene											
148.0984	13:48	13:49	-1	0.802	1360345	587373	12	30	48948		
2-Methylnaphthalene											
142.0783	13:48	13:47	-1	1.000	3147471	1393369	906	2265	1538		
13C6-Acenaphthylene											
158.0828	16:38	16:40	-1	0.967	2002588	661361	47	117	14072		
Acenaphthylene											
152.0626	16:38	16:40	-1	1.000	161491	52847	1060	2650	50		
Acenaphthene-d10											
164.1404	17:13	17:14	-1		671826	228590	11	27	20781		
13C6-Acenaphthene											
160.0984	17:20	17:21	-1	1.007	1100389	362264	32	80	11321		
Acenaphthene											
154.0783	17:20	17:20	-2	1.000	518827	169934	667	1667	255		
Fluorene											
166.0783	19:36	19:37	-2	1.000	971449	255930	744	1860	344		
13C6-Fluorene											
172.0984	19:36	19:38	-2	1.139	1062434	313723	108	270	2905		
13C6-Phenanthrene											
184.0984	24:57	24:58	-3	0.708	1648131	339041	15	37	22603		
Phenanthrene											
178.0783	24:57	24:58	-2	1.000	4052274	832420	755	1887	1103		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:11	-2	0.714	102313	24388	7	17	3484		
13C6-Anthracene											
184.0984	25:17	25:14	-2	0.718	1353934	285076	15	37	19005		
Anthracene											
178.0783	25:17	25:17	-2	1.000	442387	89571	755	1887	119		
13C6-Fluoranthrene											
208.0984	33:41	33:42	-2	0.956	3954011	675806	537	1342	1258		
Fluoranthene											
202.0783	33:42	33:42	-2	1.000	1502943	263870	486	1215	543		
Pyrene-d10											
212.1404	35:14	35:15	-2		1785610	311109	60	150	5185		
13C3-Pyrene											
205.0883	35:22	35:23	-2	1.004	4311803	746898	332	830	2250		
Pyrene											
202.0783	35:22	35:24	-2	1.000	1727903	289985	486	1215	597		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:05	-1	0.705	1891709	320649	65	162	4933		
13C6-Benzo(a)anthracene											
234.1140	45:53	45:55	-1	1.303	3583017	521370	525	1312	993		
Benzo[a]anthracene											
228.0939	45:54	45:54	0	1.000	75703	12317	1309	3272	9		M
13C6-Chrysene											
234.1140	46:10	46:10	-1	1.310	4035021	550854	525	1312	1049		M
Chrysene											
228.0939	46:09	46:11	-2	1.000	478016	51296	1309	3272	39		M
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:32	-1	0.984	3848680	876546	104	260	8428		
Benzo[b]fluoranthene											
252.0939	54:31	54:33	-1	1.000	510035	94876	497	1242	191		
13C12-Benzo(j)fluoranthene											
264.1336	54:34	54:34	0	0.985	3695324	881875	449	1122	1964		M
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.986	5712549	1188949	104	260	11432		M
Benzo[k]fluoranthene											
252.0939	54:39	54:39	-1	1.000	225260	38643	497	1242	78		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:25	0		1968684	576484	425	1062	1356		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:30	0	1.002	4046386	1038868	309	772	3362		
Benzo[e]pyrene											
252.0939	55:29	55:29	0	1.000	616844	146322	497	1242	294		
13C4-Benzo(a)pyrene											
256.1073	55:38	55:38	0	1.004	5209958	1359824	309	772	4401		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:38	55:38	-1	1.000	325375	41478	497	1242	83		M
Perylene-d12											
264.1692	55:48	55:48	-1	1.007	4009419	1115567	425	1062	2625		
Perylene											M
252.0939	55:52	55:52	-1	1.001	152929	30354	497	1242	61		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	-1	1.046	3272553	996548	399	997	2498		
Indeno[1,2,3-cd]pyrene											M
276.0939	57:57	57:57	0	1.000	246300	51656	357	892	145		M
13C6-Dibenz(a,h)anthracene											M
284.1296	58:01	58:01	0	1.047	3697600	896192	222	555	4037		M
Dibenz(a,h)anthracene											
278.1096	58:01	58:01	0	1.000	283960	53248	199	497	268		
13C12-Benzo(ghi)perylene											
288.1342	58:24	58:23	0	1.054	3997355	1035332	99	247	10458		
Benzo[g,h,i]perylene											M
276.0939	58:24	58:24	-1	1.000	724437	186563	357	892	523		M

QC Flag Legend

Processing Flags

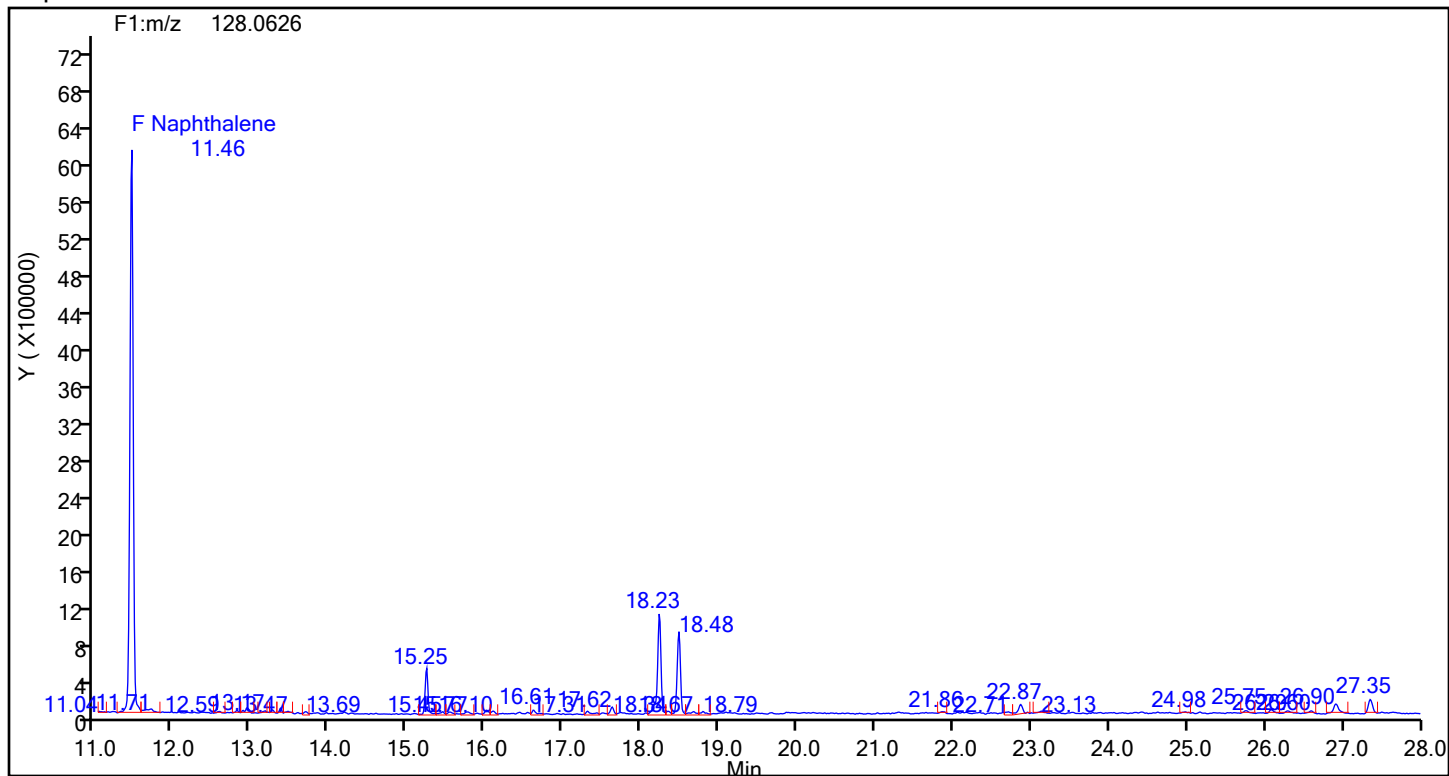
Review Flags

M - Manually Integrated

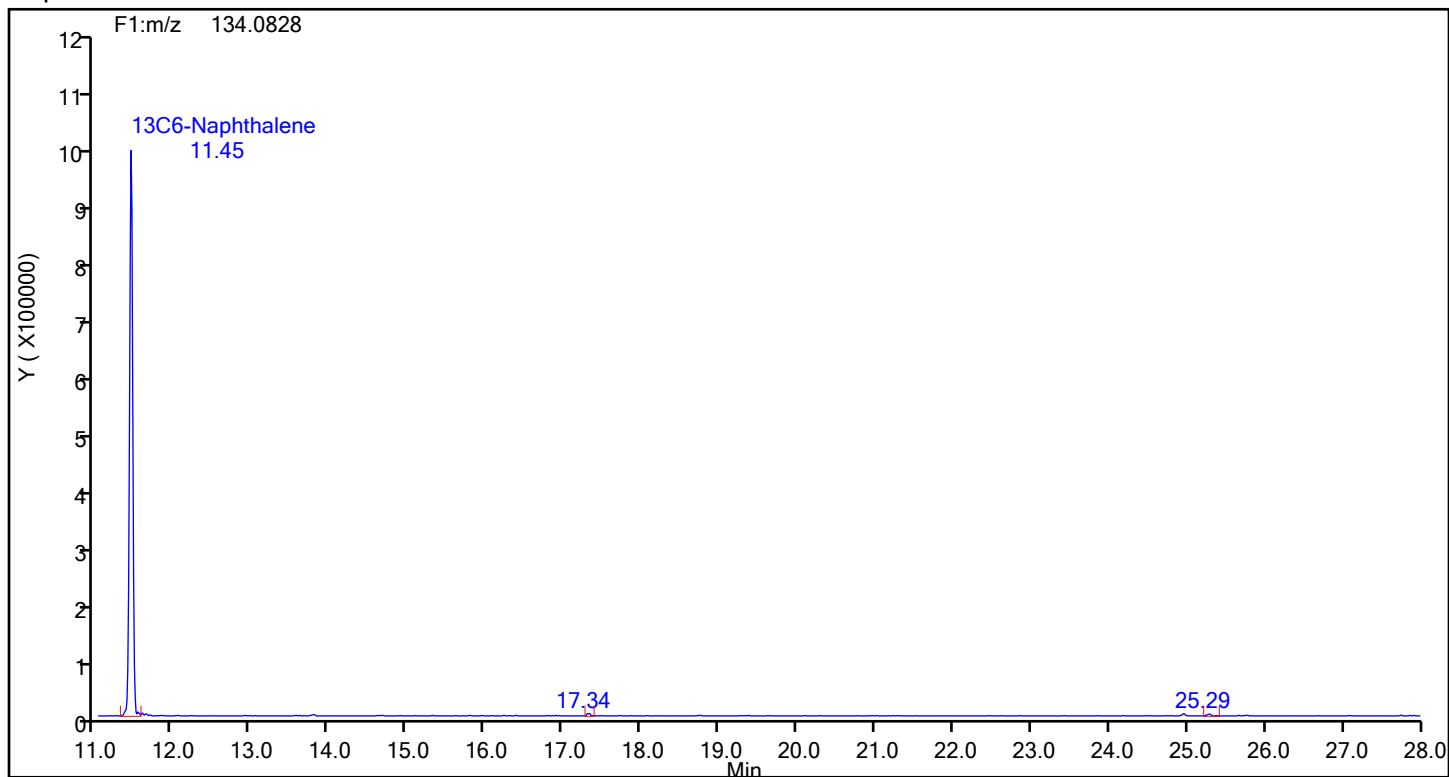
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



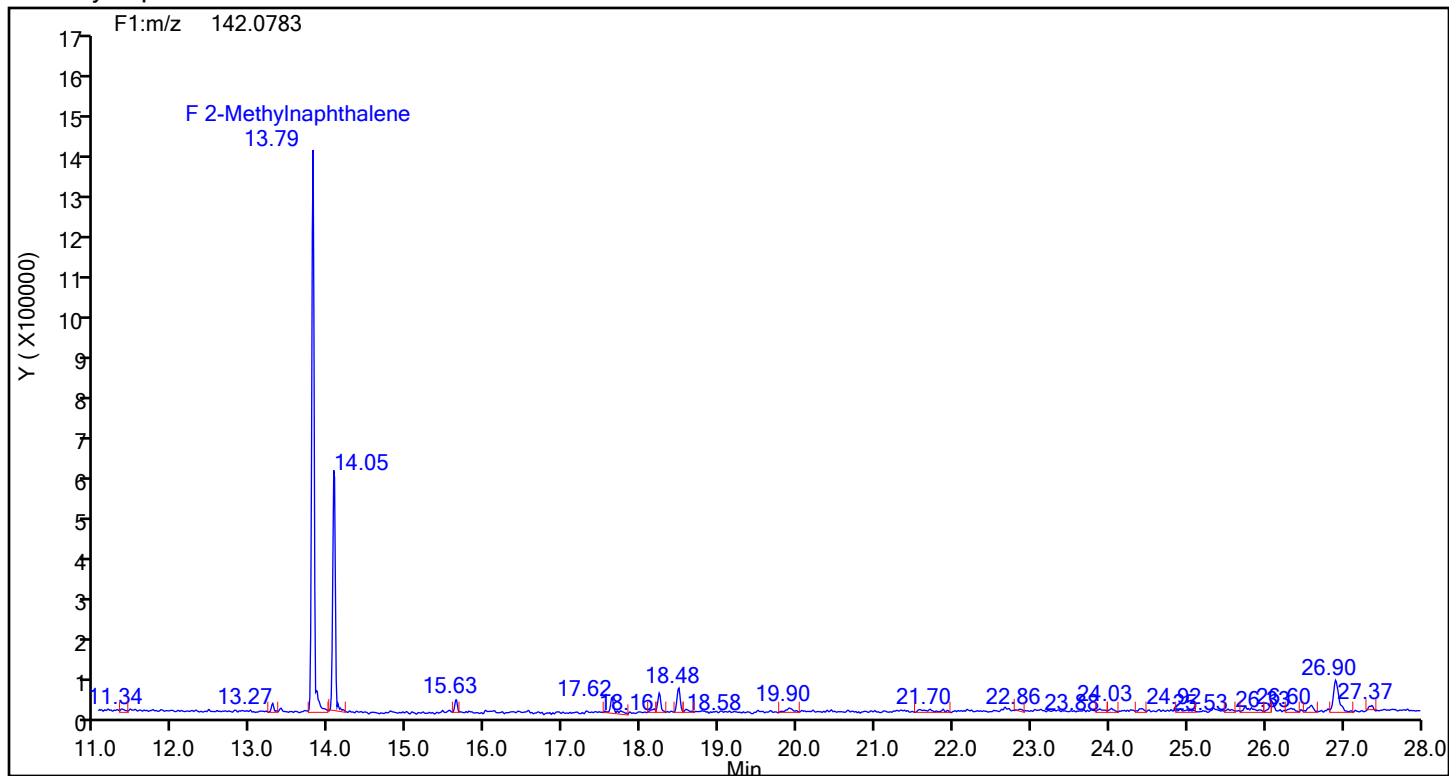
Naphthalene Standards



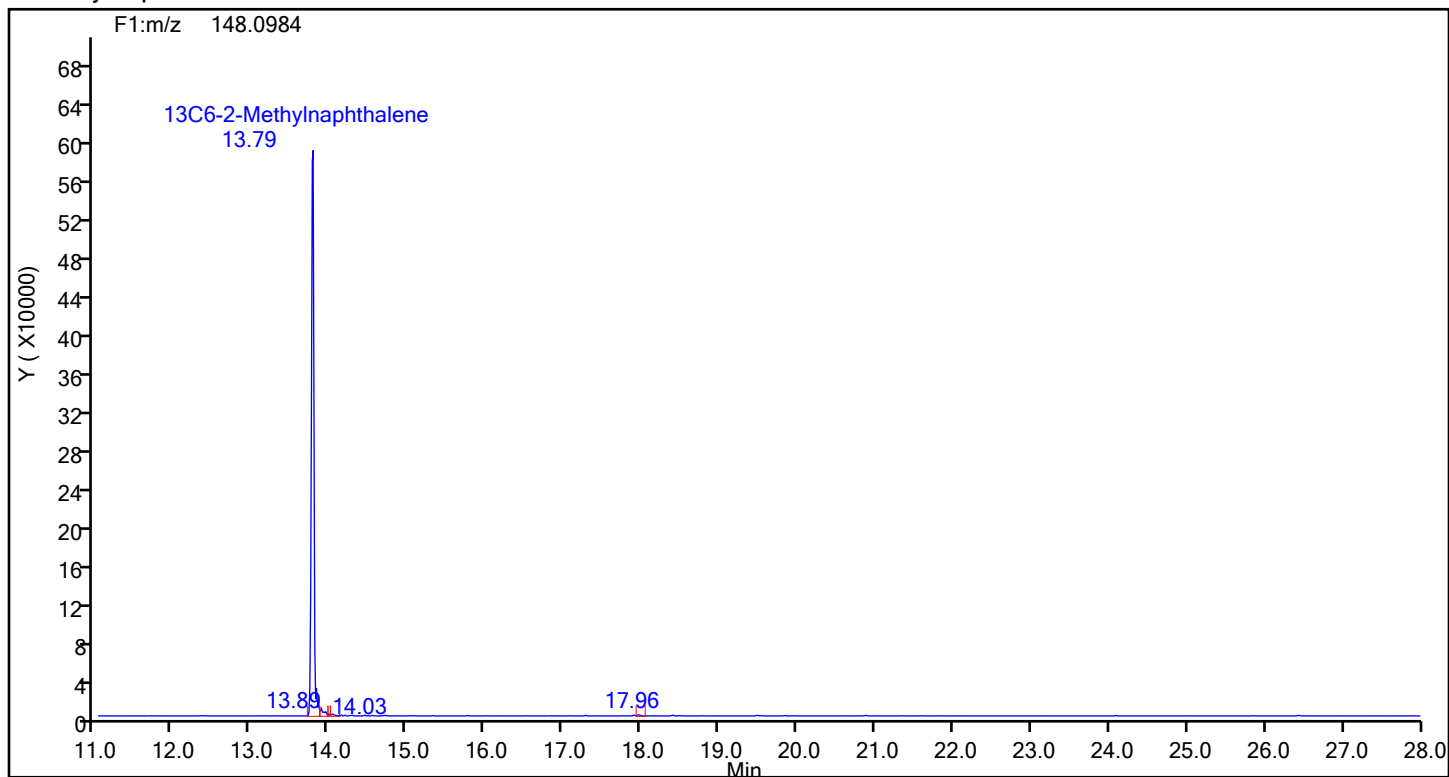
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



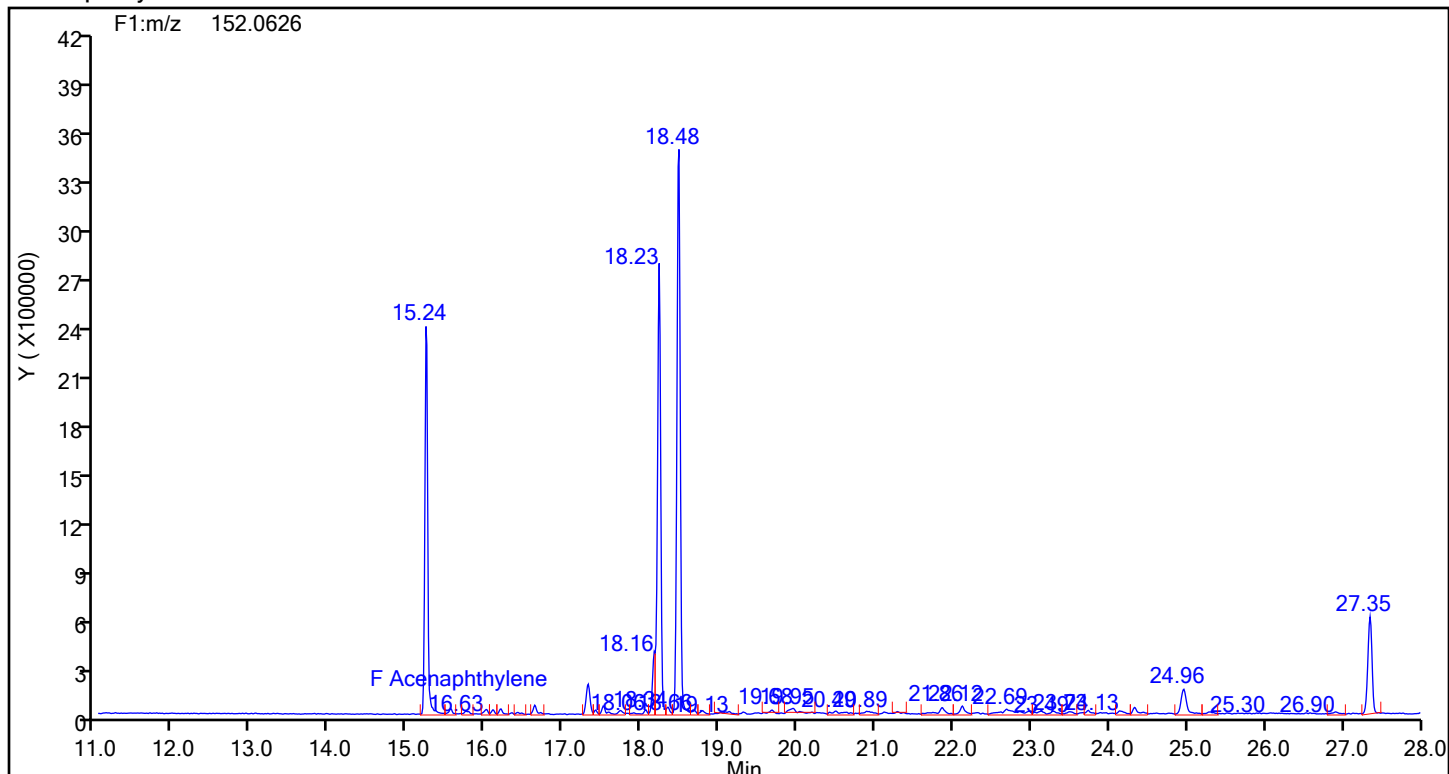
2-Methylnaphthalene Standards



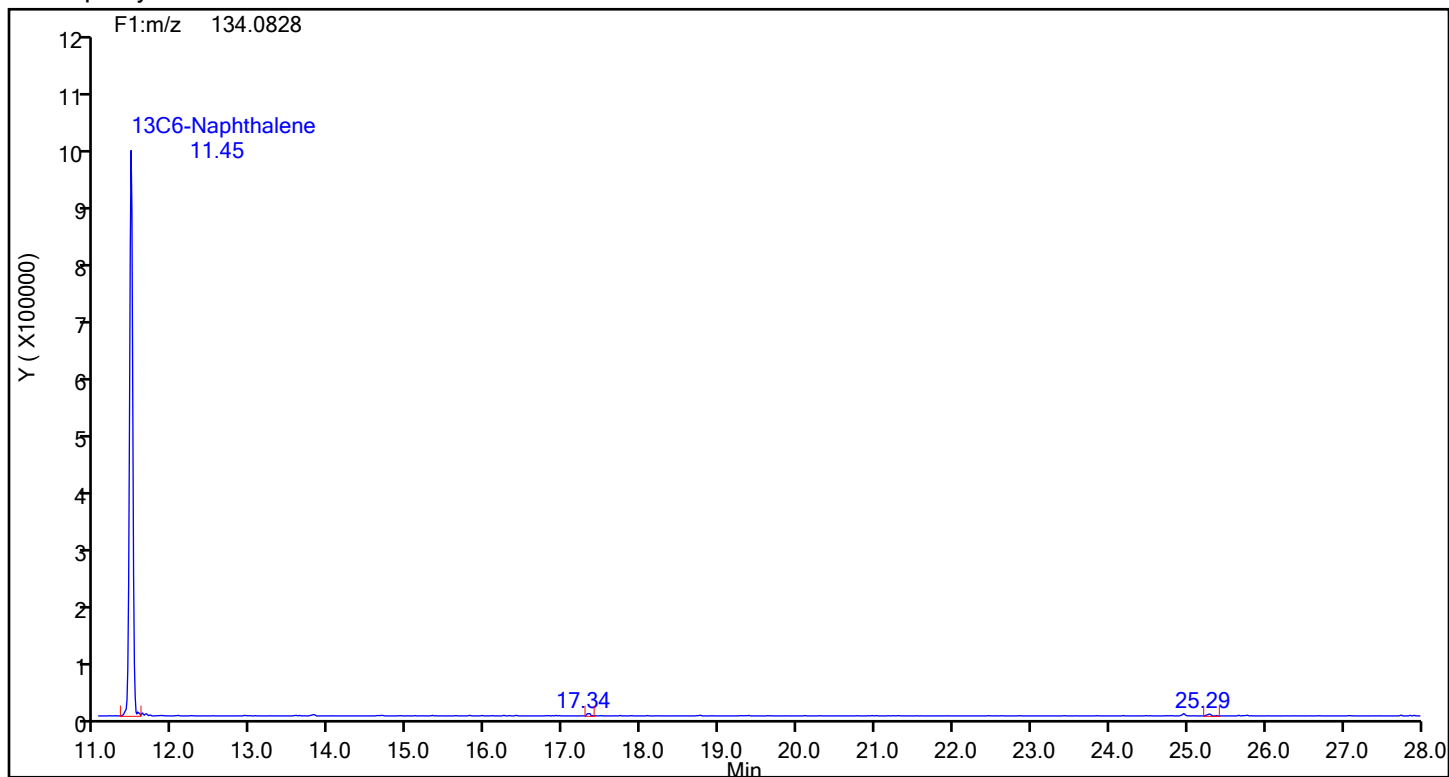
Eurofins Knoxville

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Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



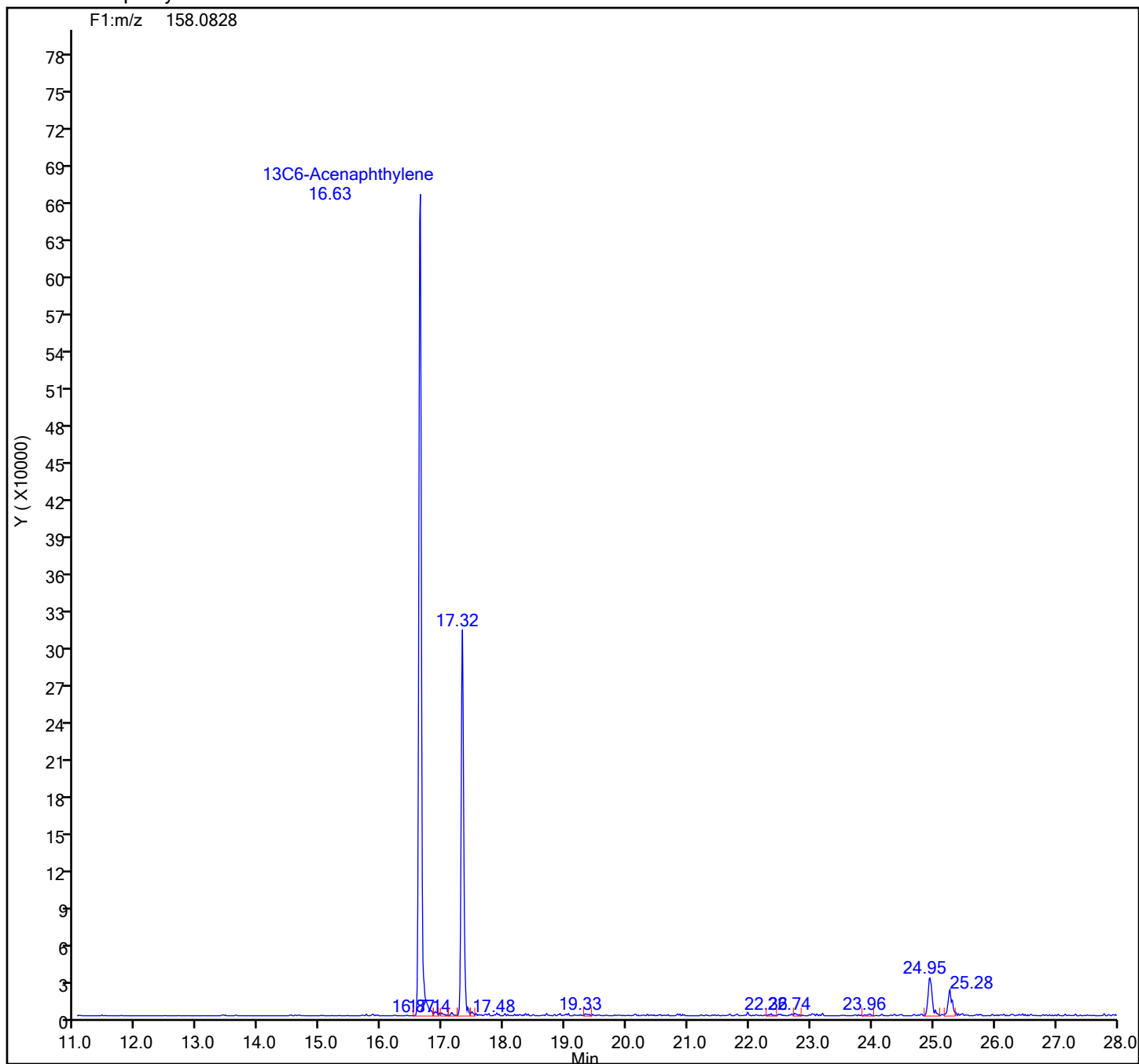
Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

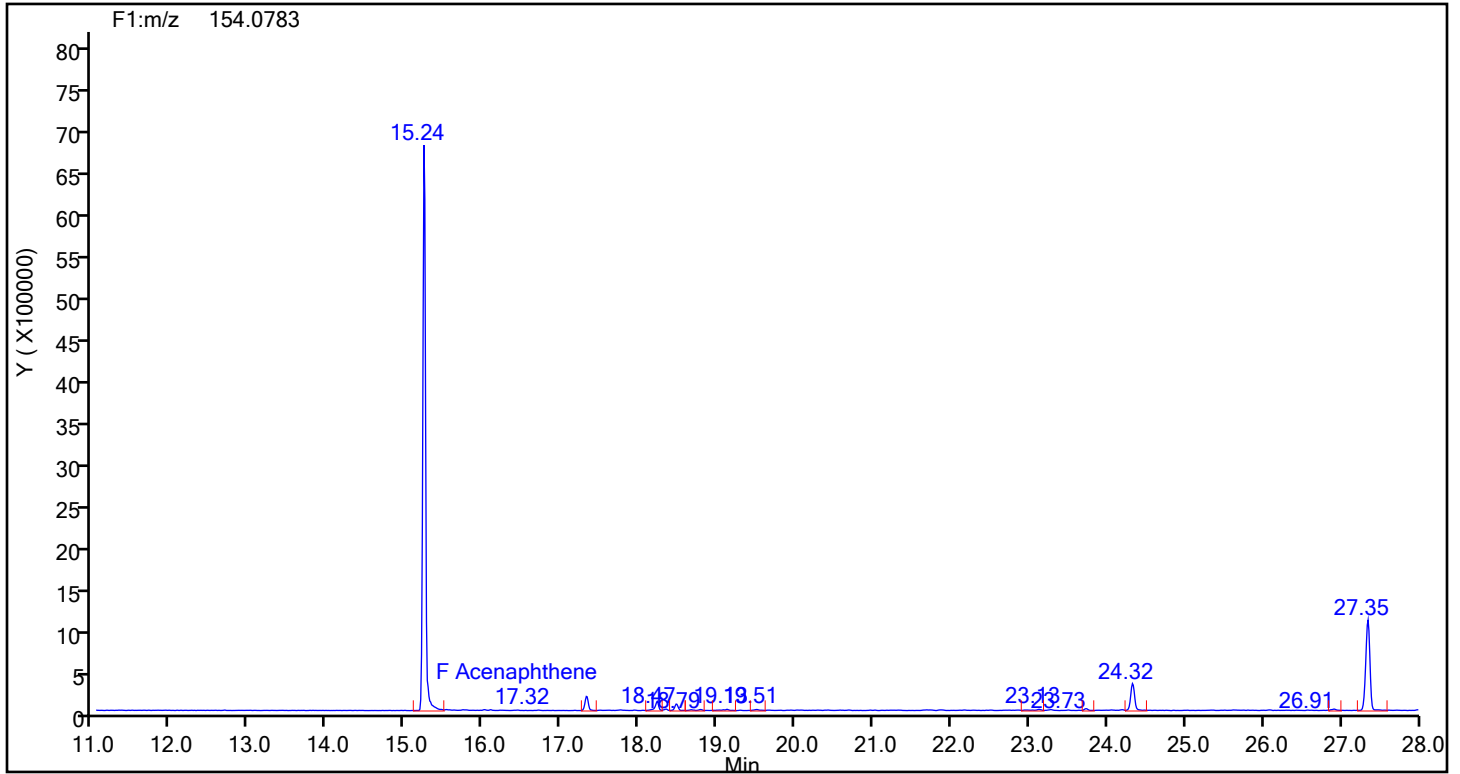
13C6-Acenaphthylene Standards



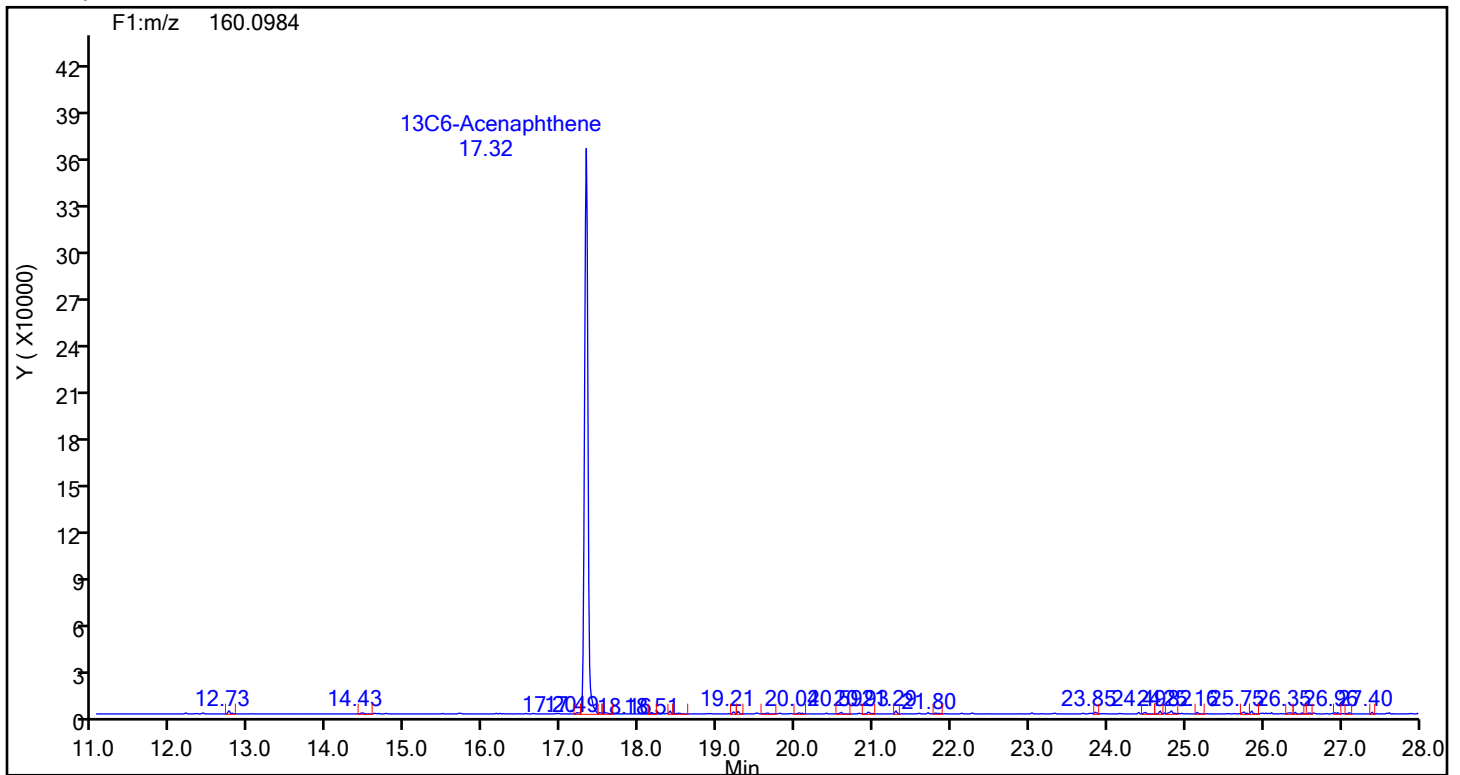
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



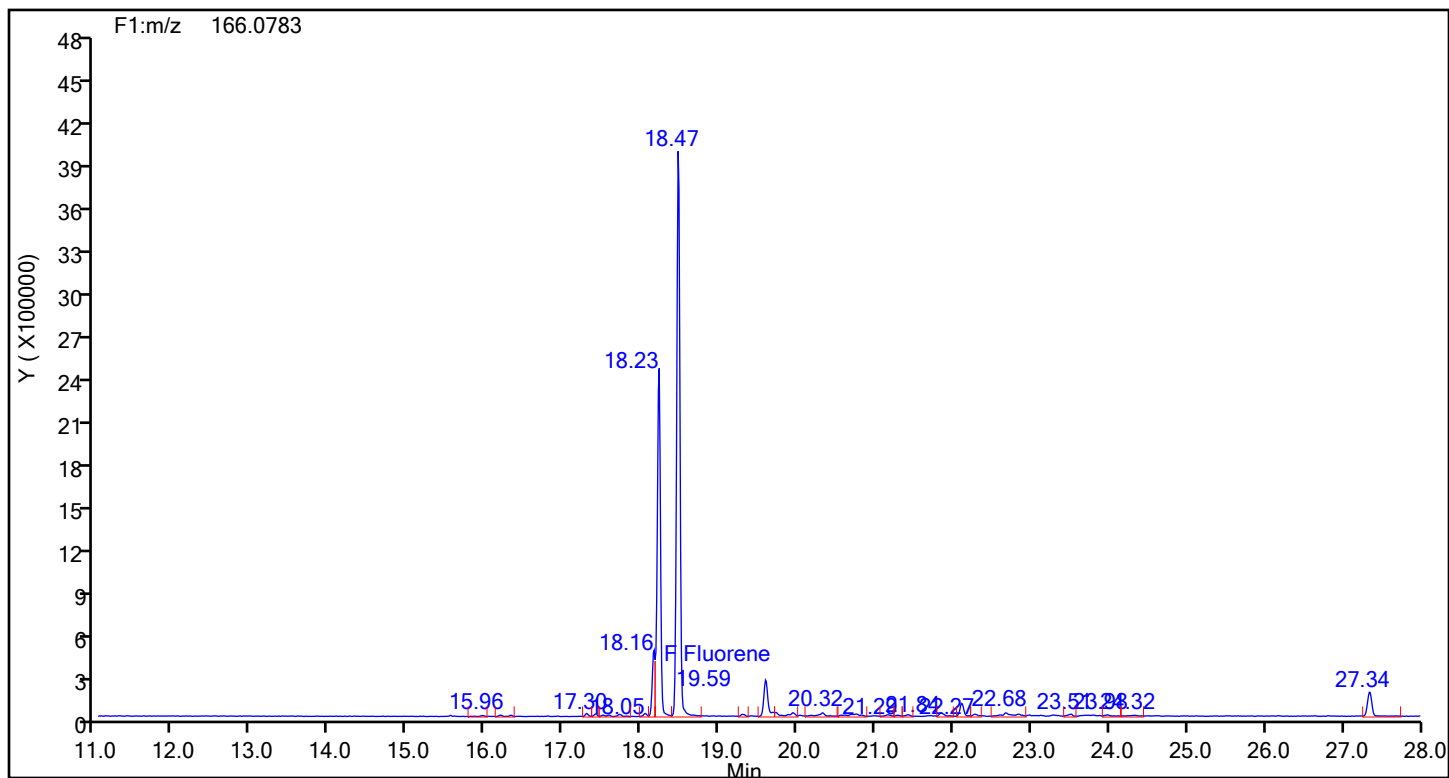
Acenaphthene Standards



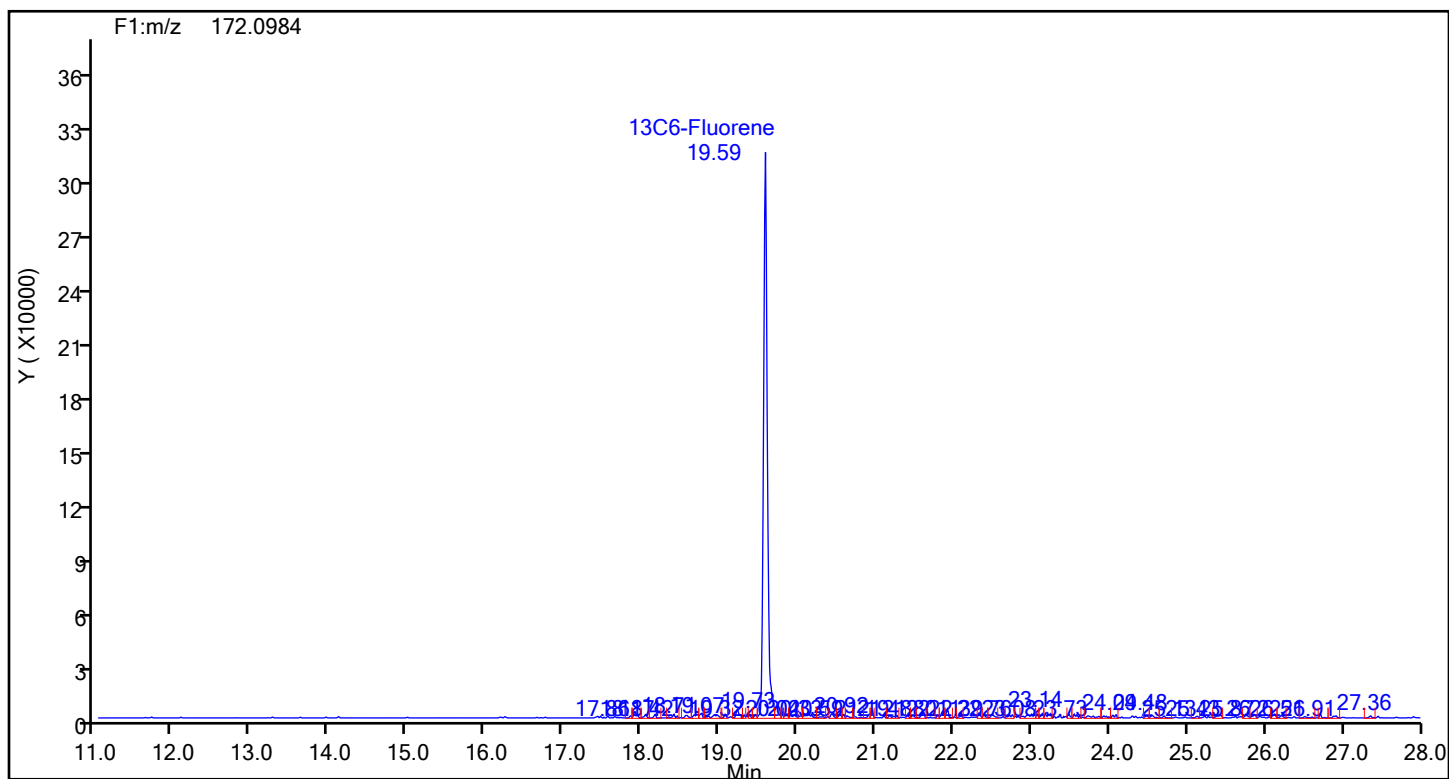
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



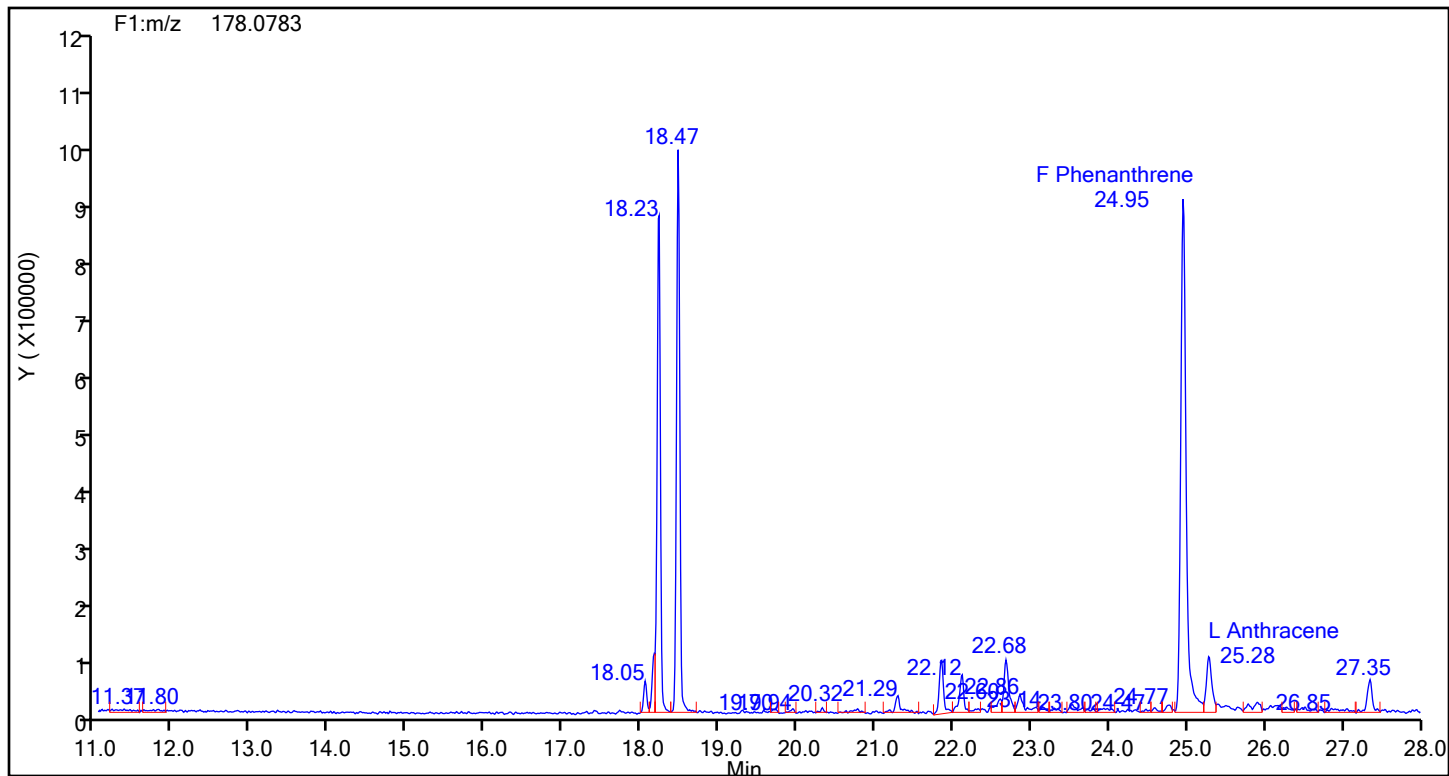
Fluorene Standards



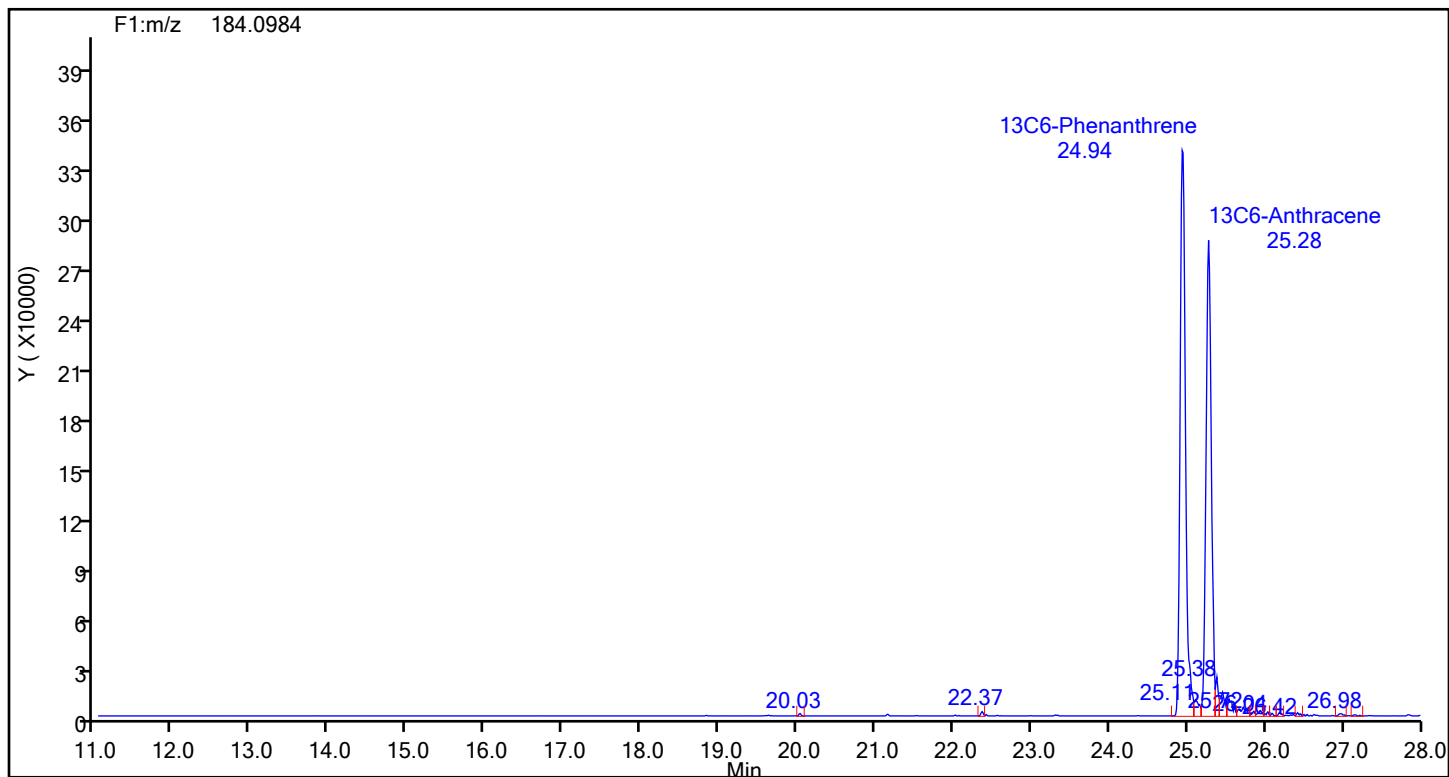
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

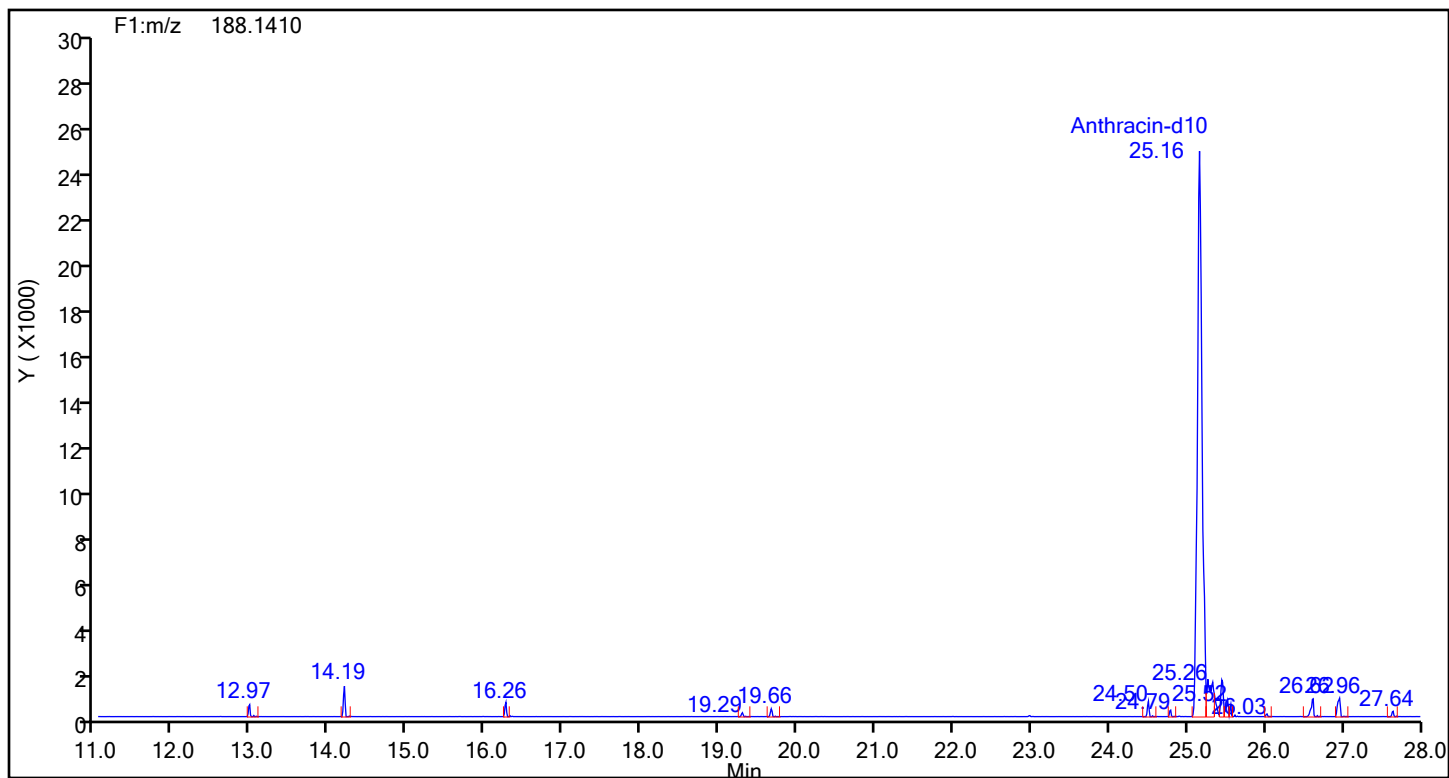


Phenanthrene Standards

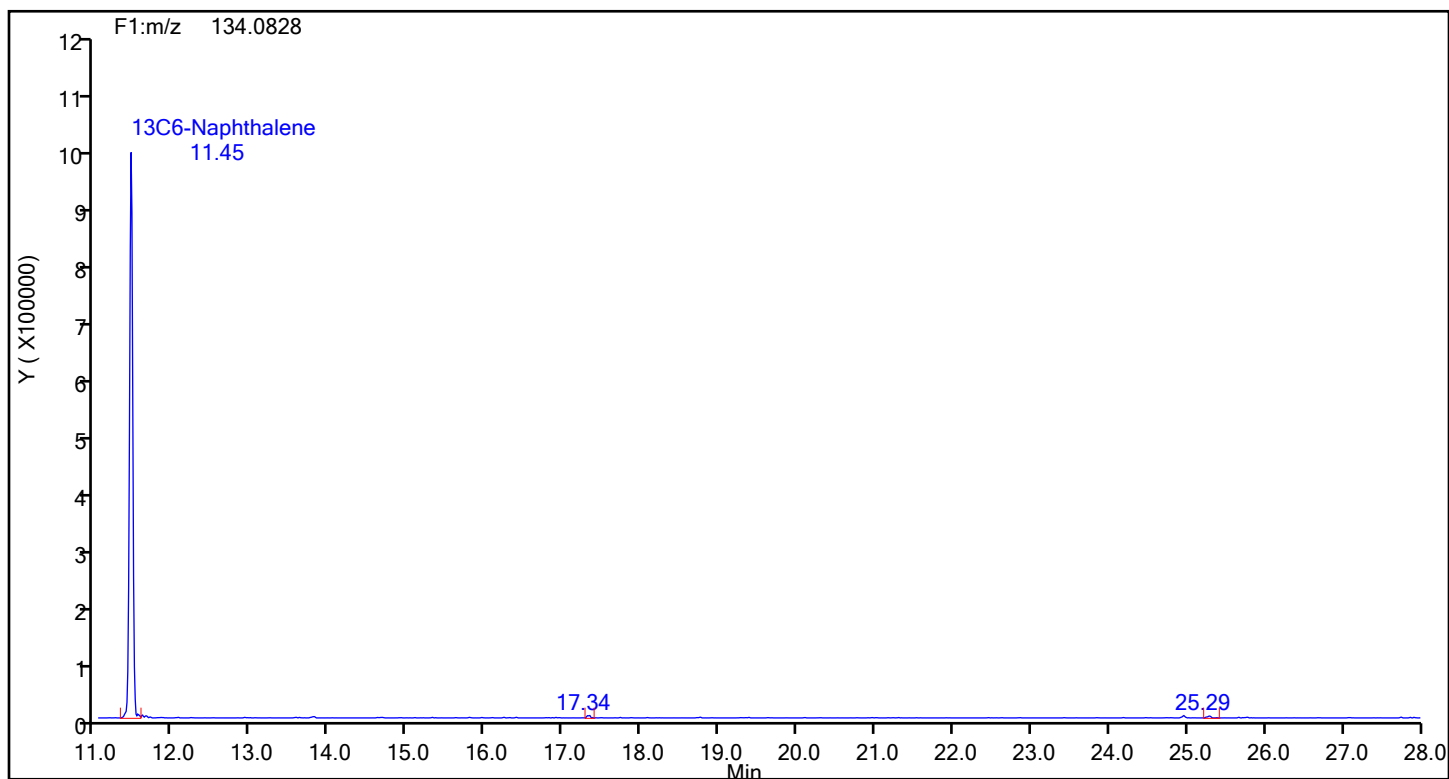


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

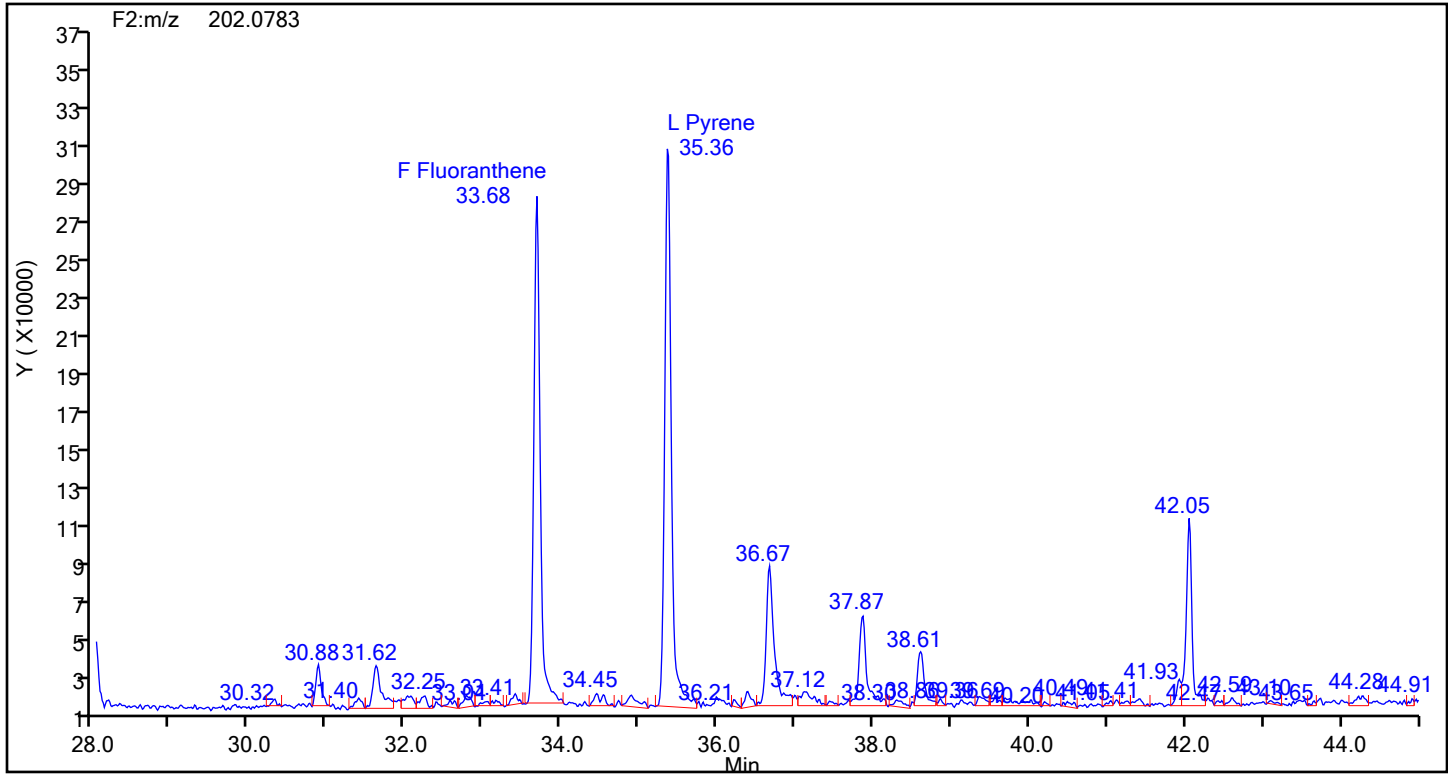


Anthracin-d10 Standards

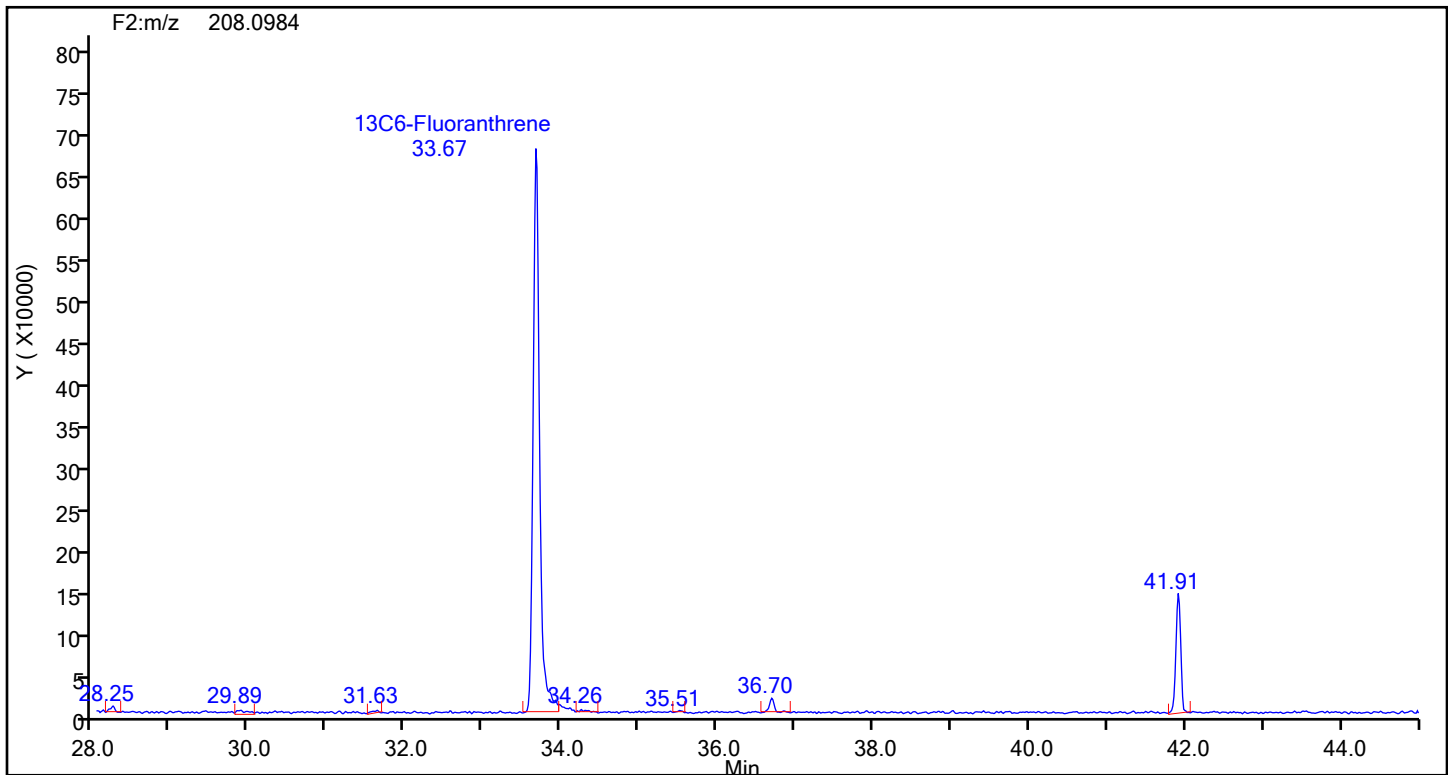


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



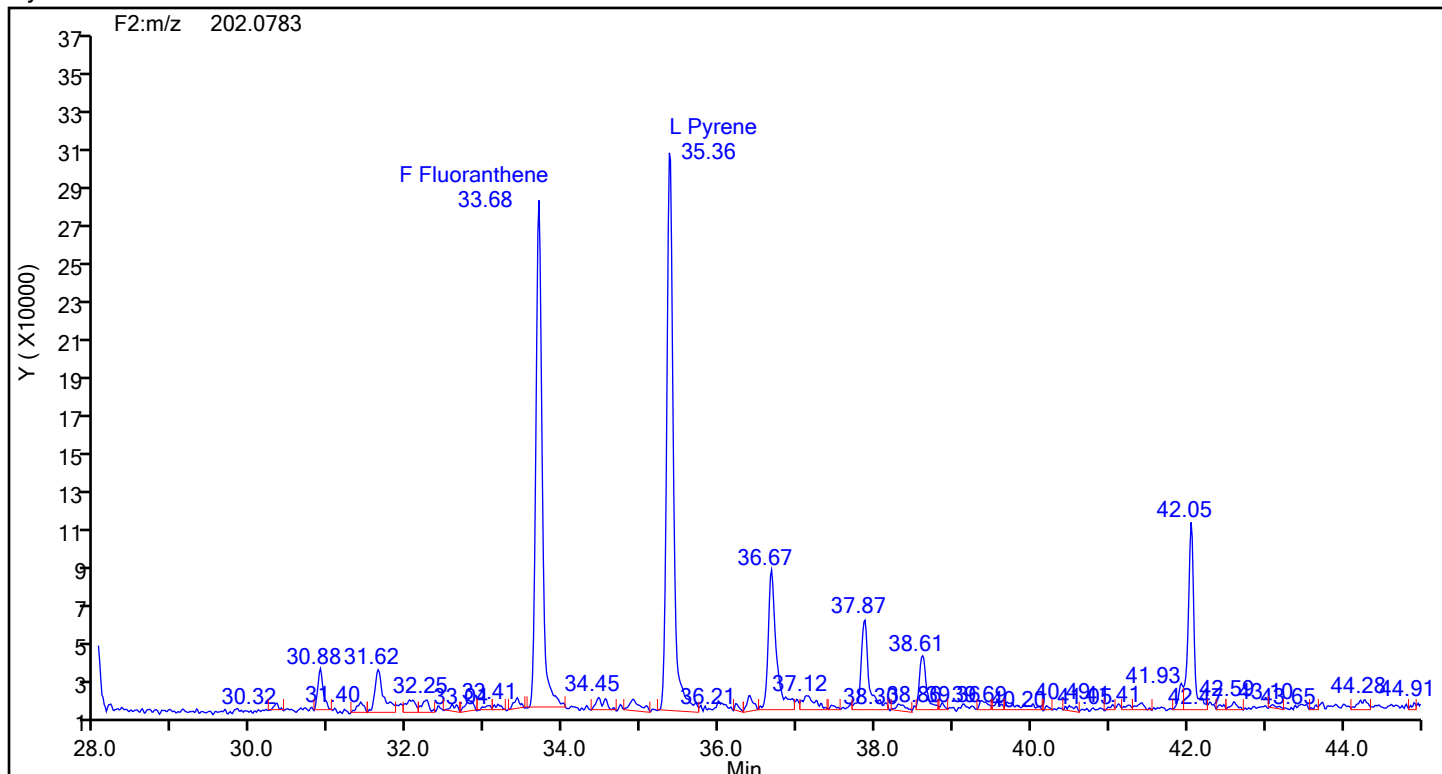
Fluoranthene Standards



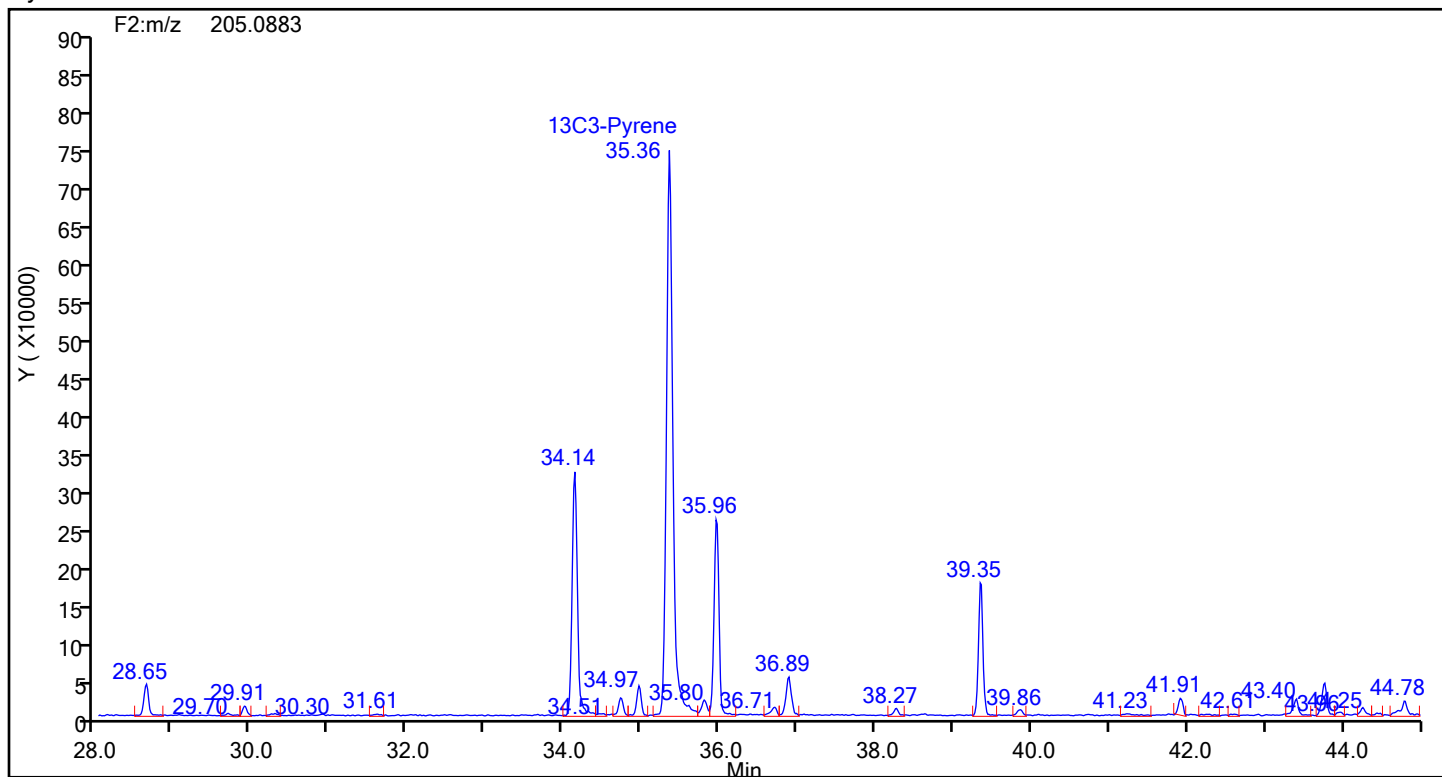
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



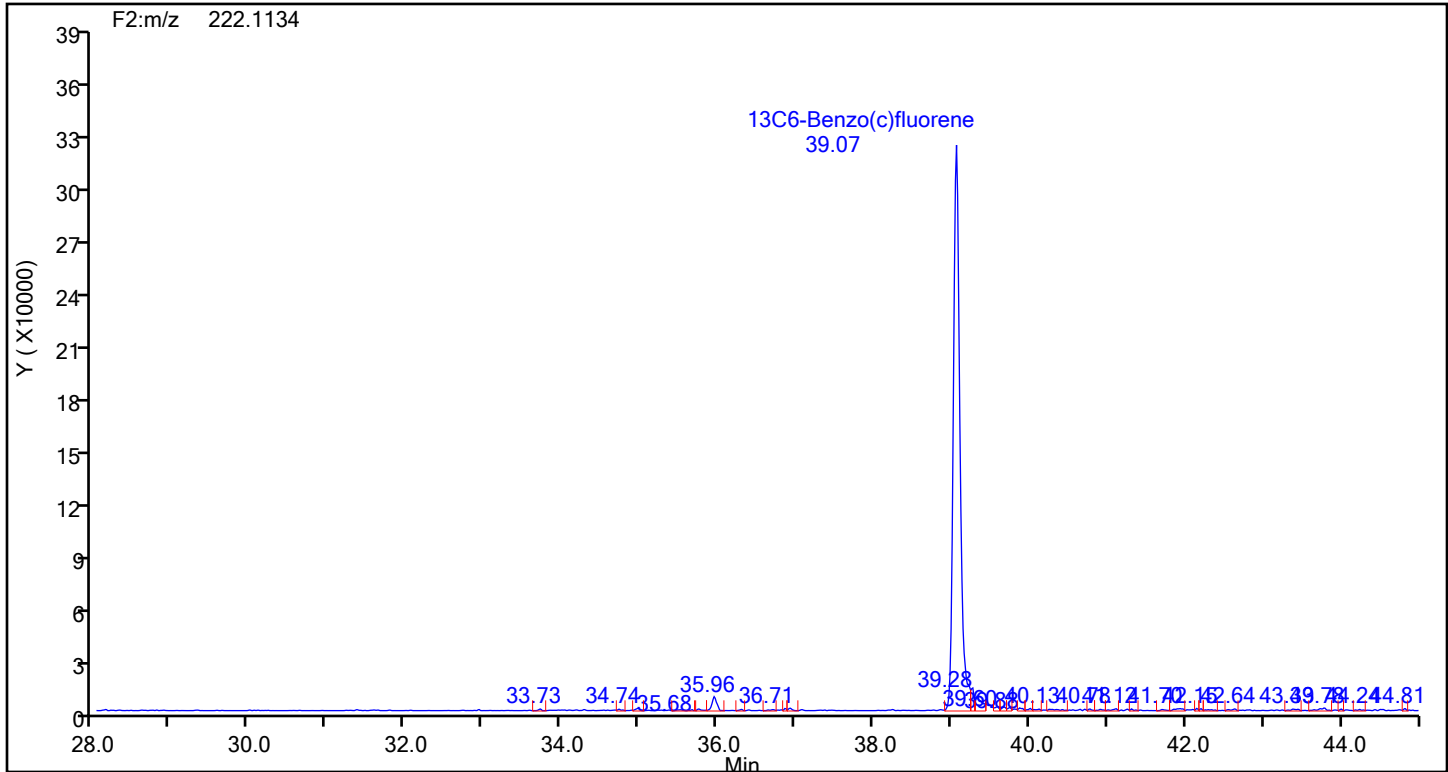
Pyrene Standards



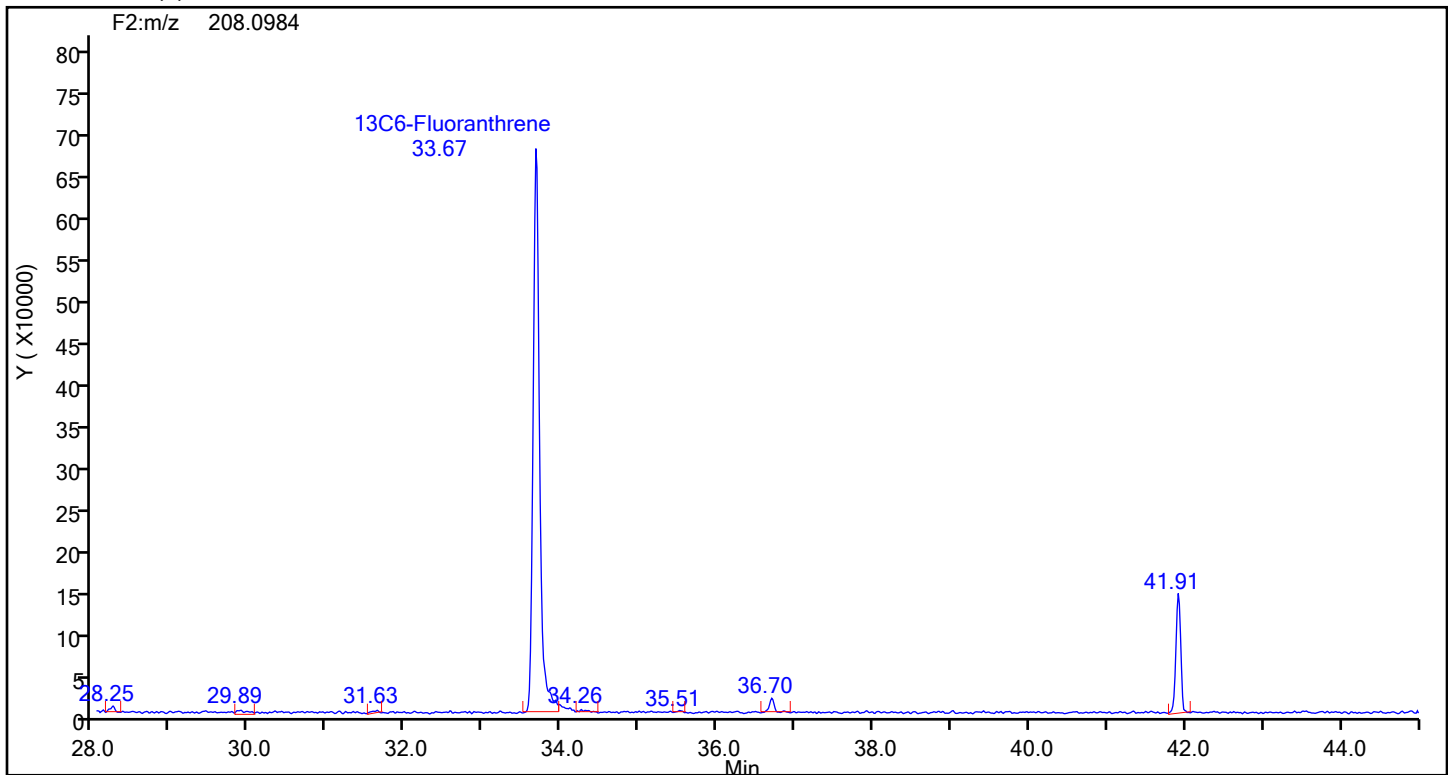
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



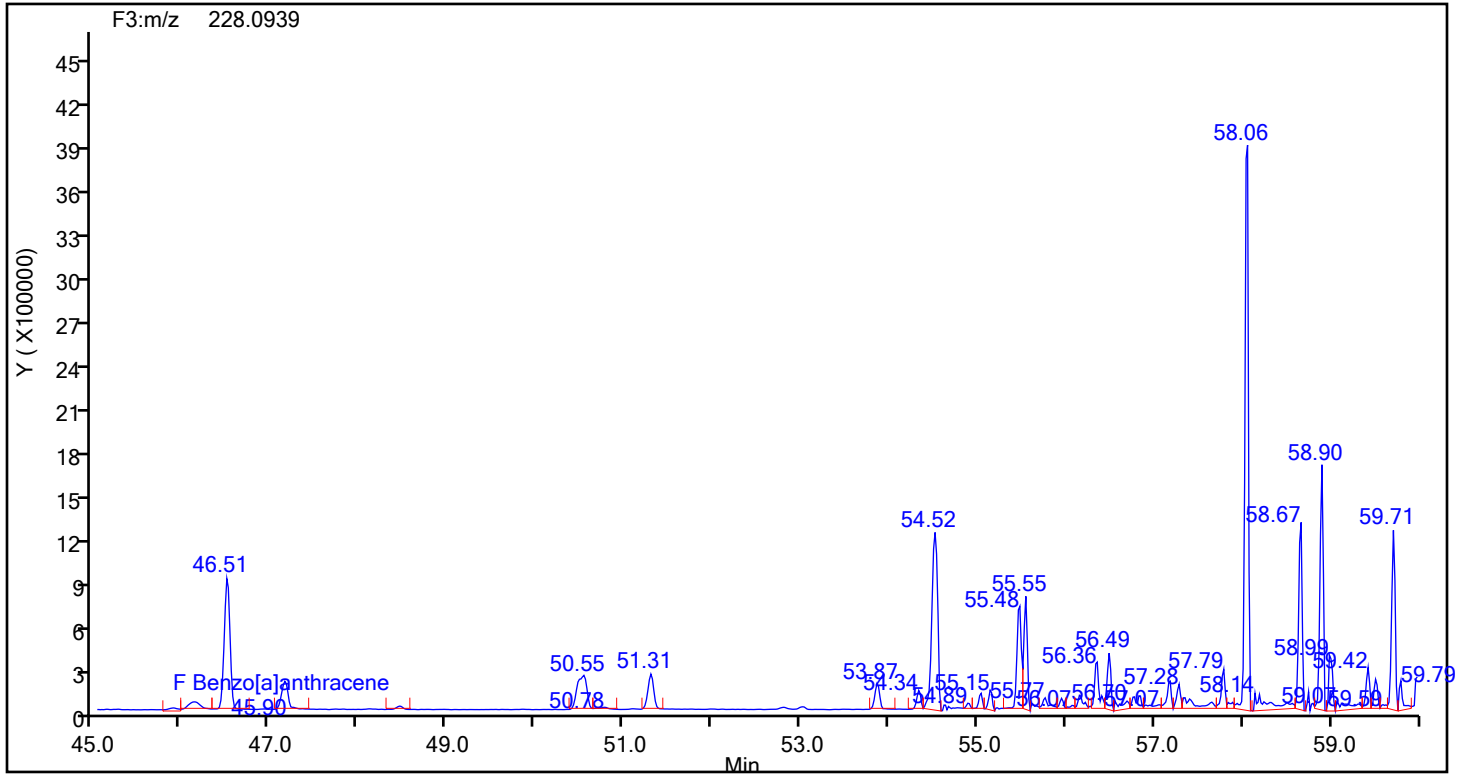
13C6-Benzo(c)fluorene Standards



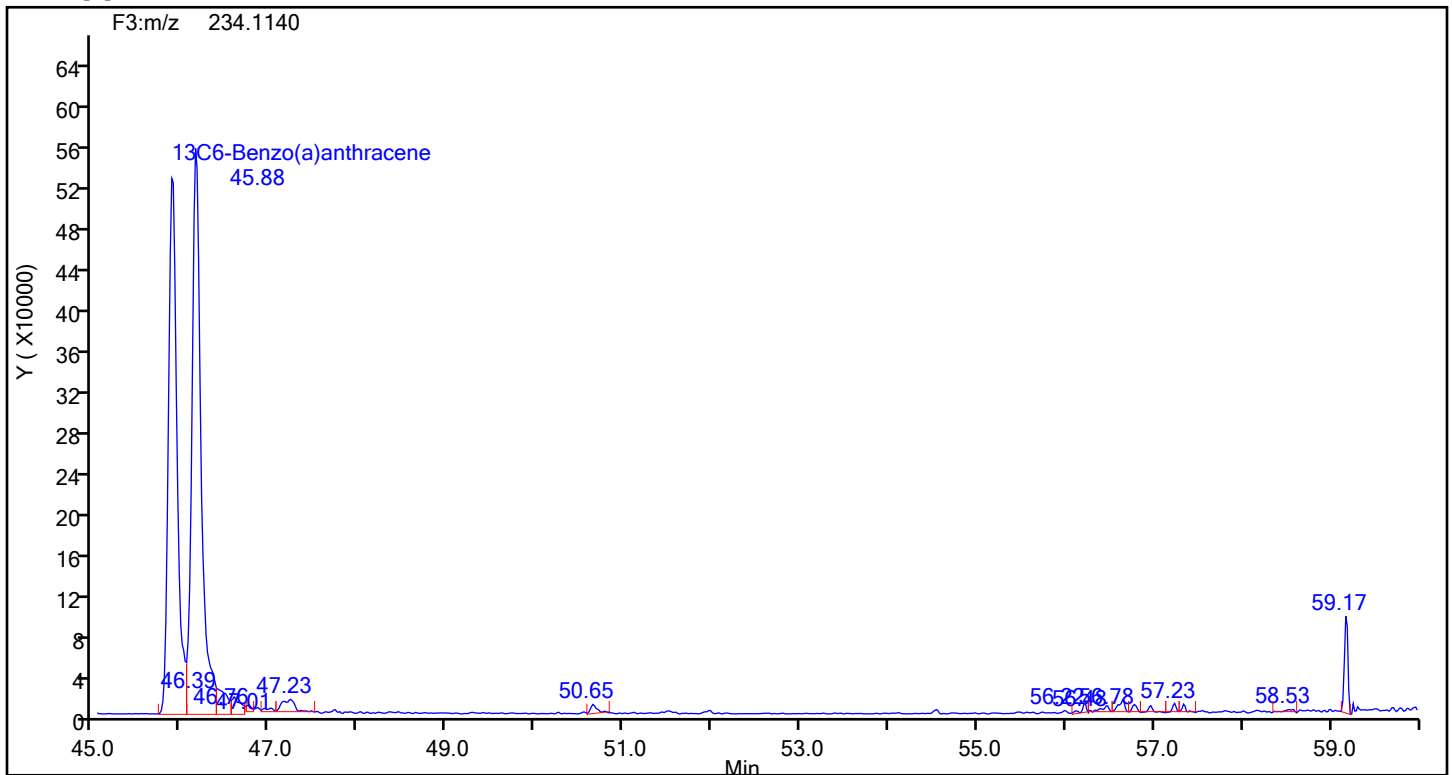
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

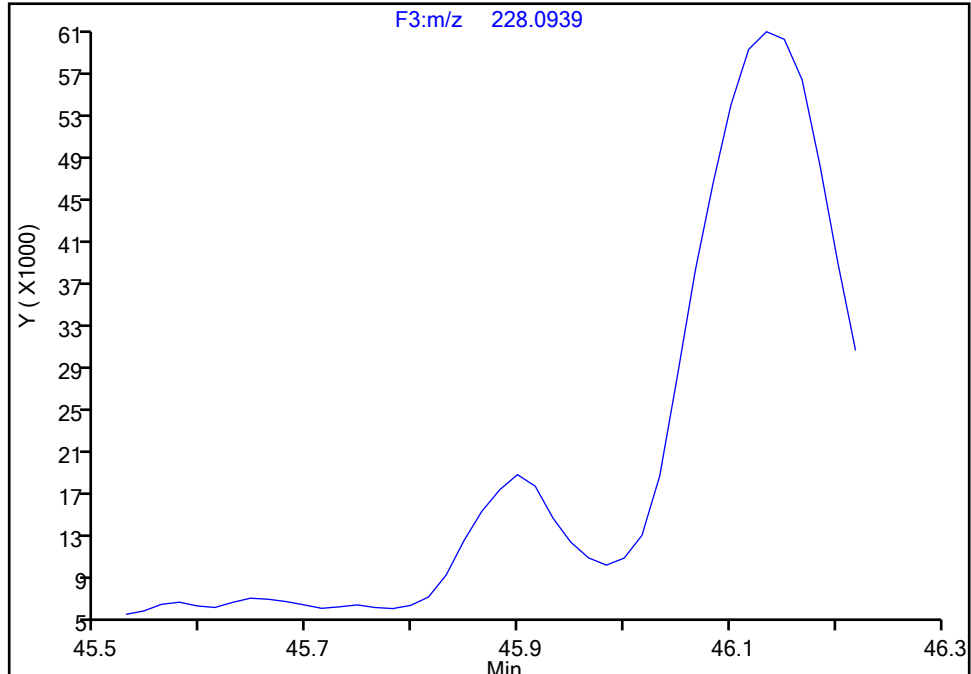
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[a]anthracene, CAS: 56-55-3

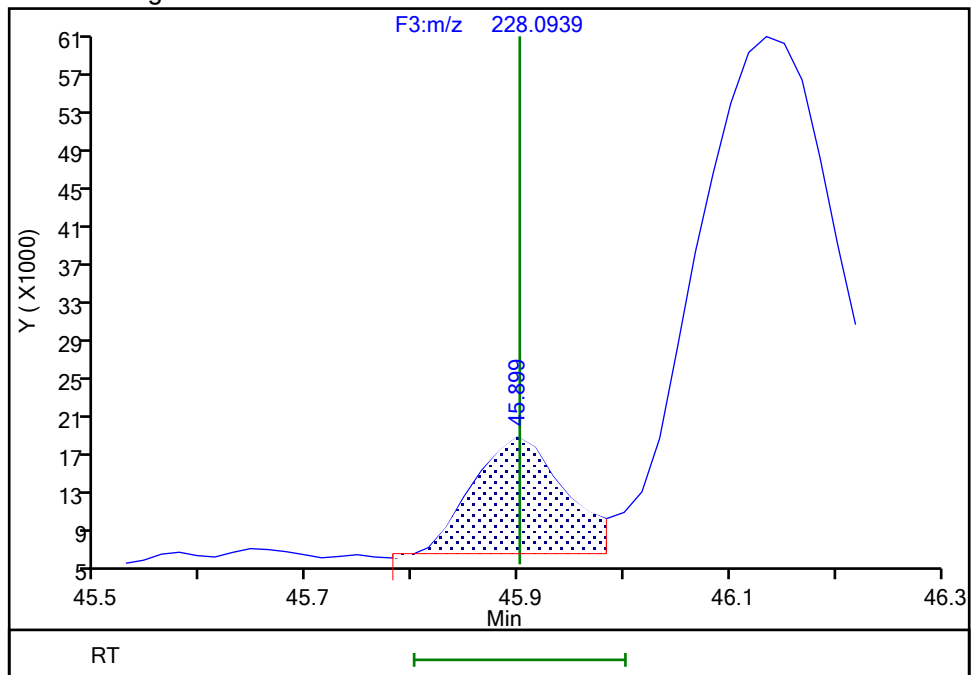
Signal: 1

Not Detected
Expected RT: 45.90

Processing Integration Results



Manual Integration Results



RT: 45.90
Area: 75703
Amount: 0.216954
Amount Units: pg/ul

Reviewer: TT6I, 20-Jul-2024 09:25:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

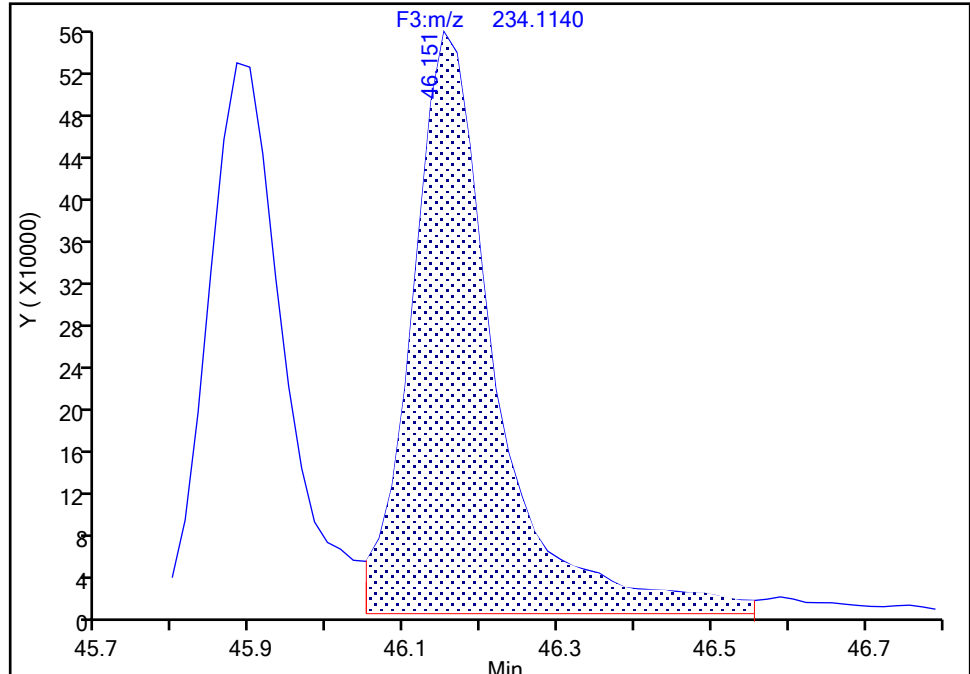
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

13C6-Chrysene, CAS: 1397177-72-8

Signal: 1

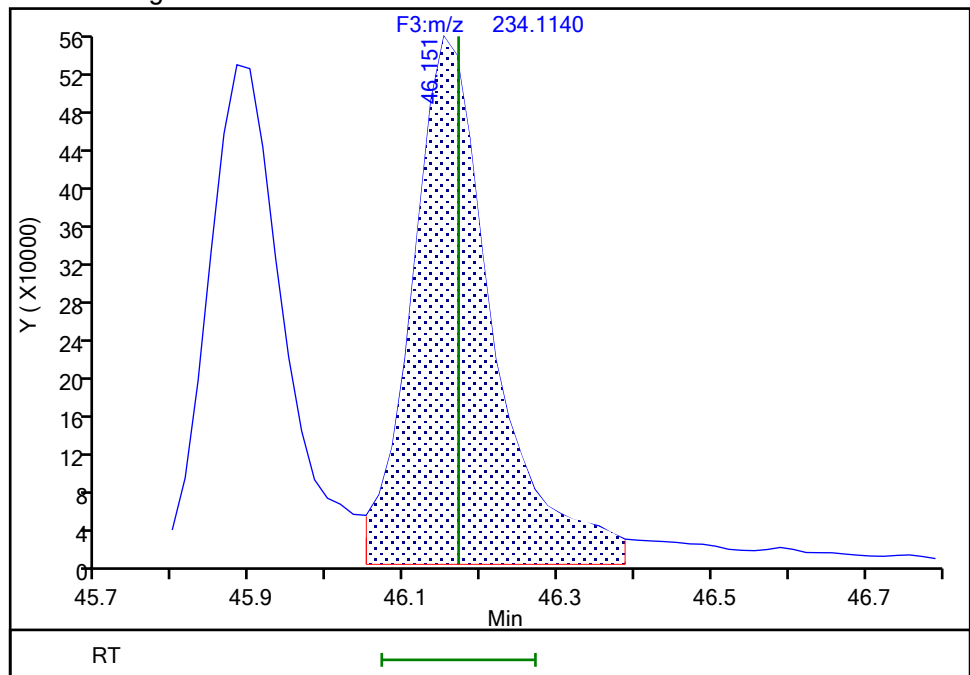
RT: 46.15
Area: 4198600
Amount: 6.547121
Amount Units: pg/ul

Processing Integration Results



RT: 46.15
Area: 4035021
Amount: 6.292042
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:23:59 -04:00:00 (UTC)

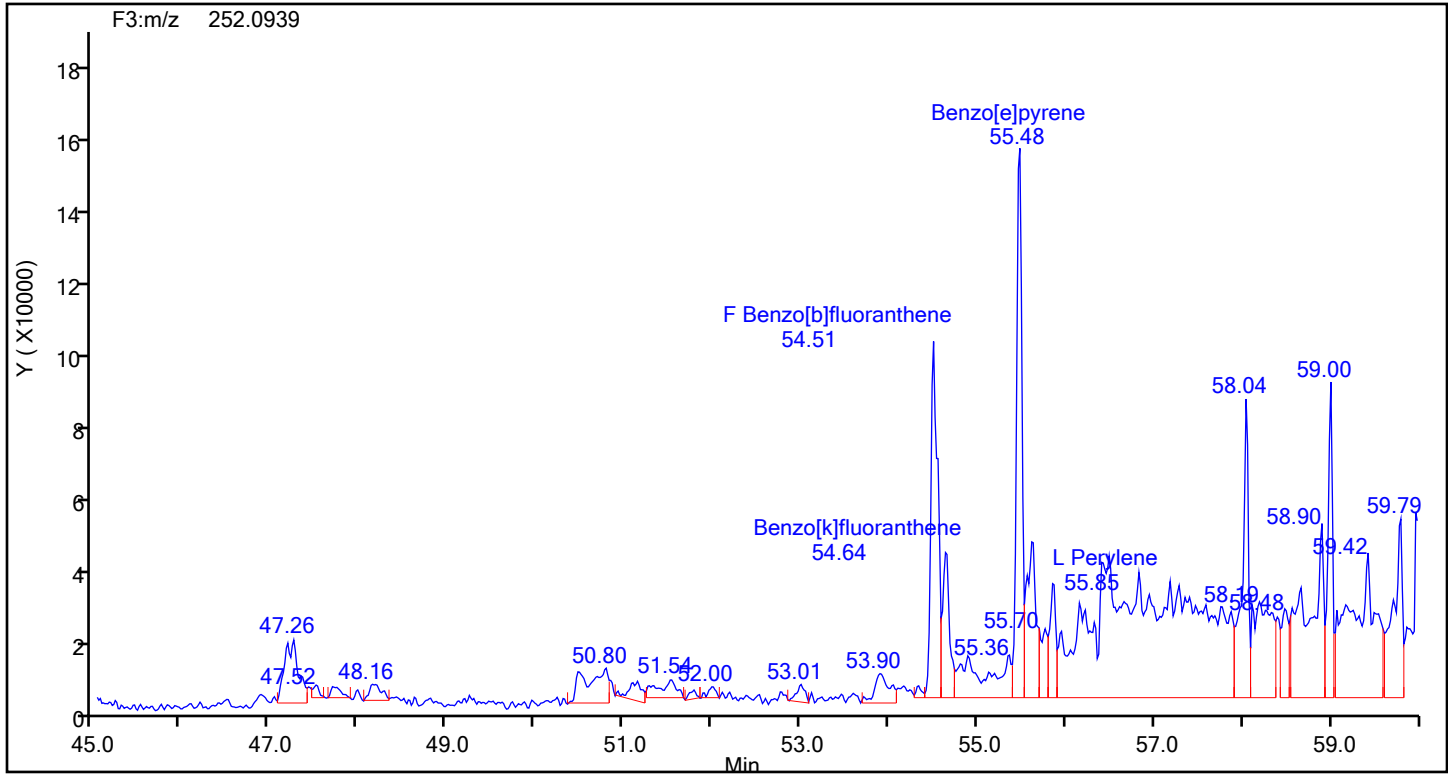
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

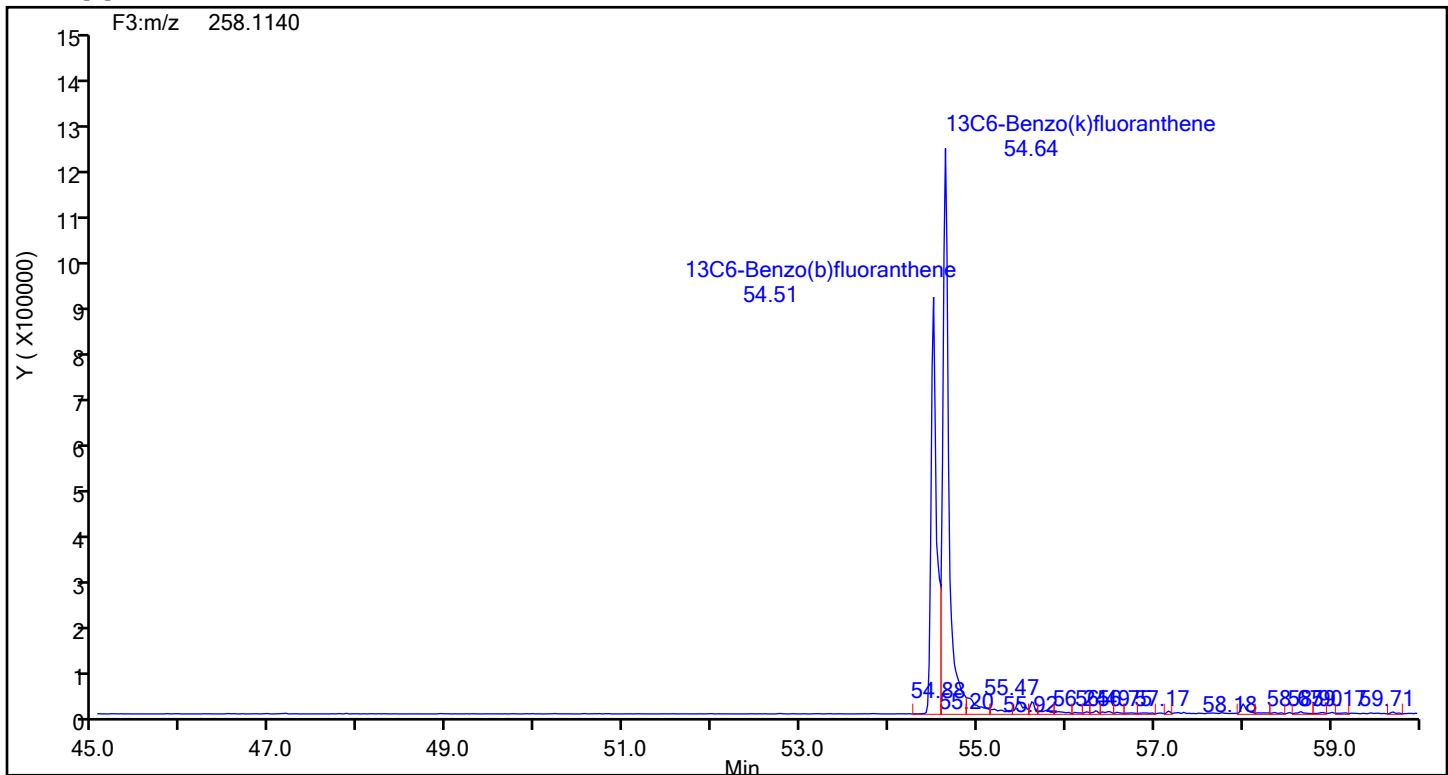
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

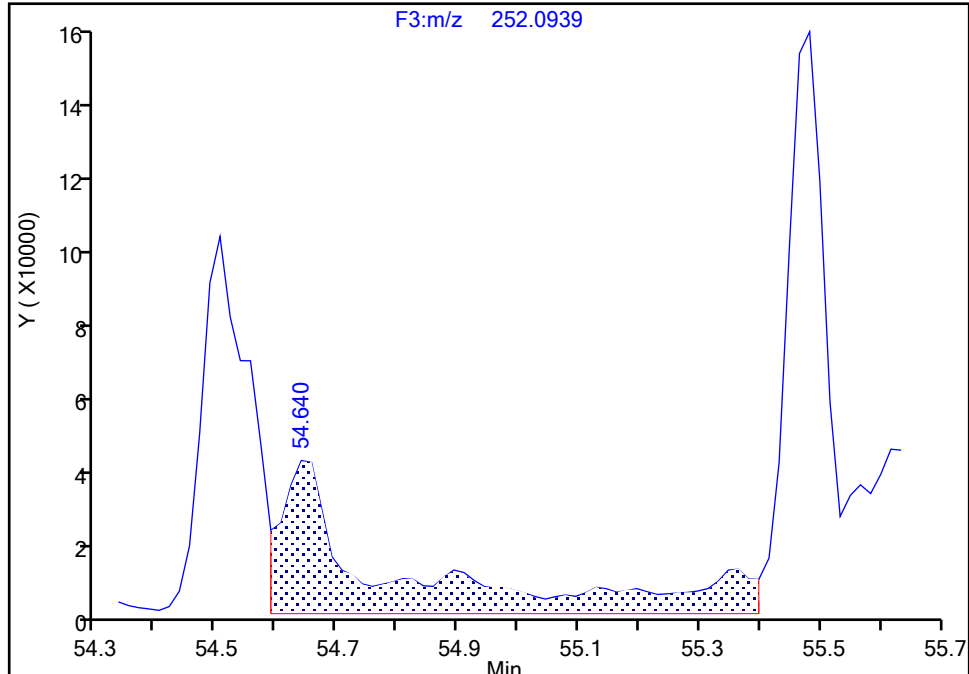
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

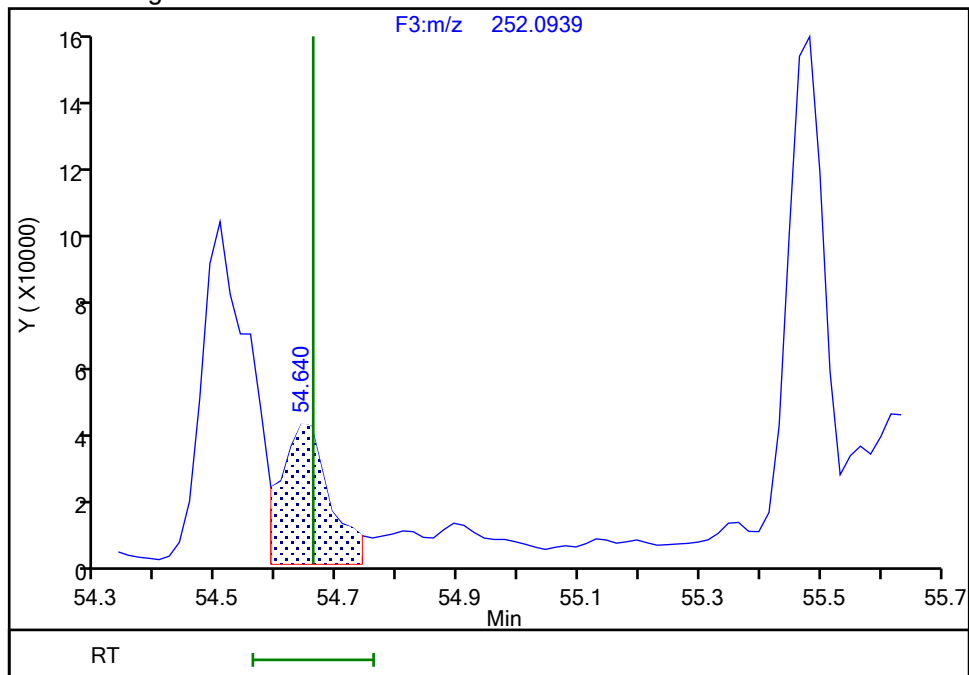
RT: 54.64
Area: 485132
Amount: 0.753484
Amount Units: pg/ul

Processing Integration Results



RT: 54.64
Area: 225260
Amount: 0.349863
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:25:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

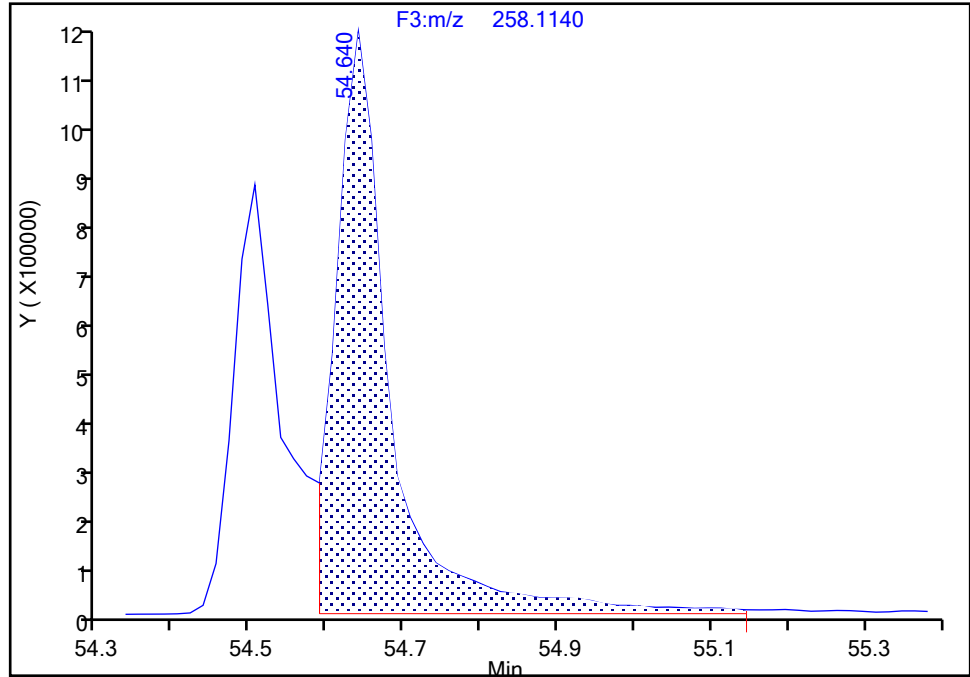
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Benzo(k)fluoranthene, CAS: 1397194-60-3

Signal: 1

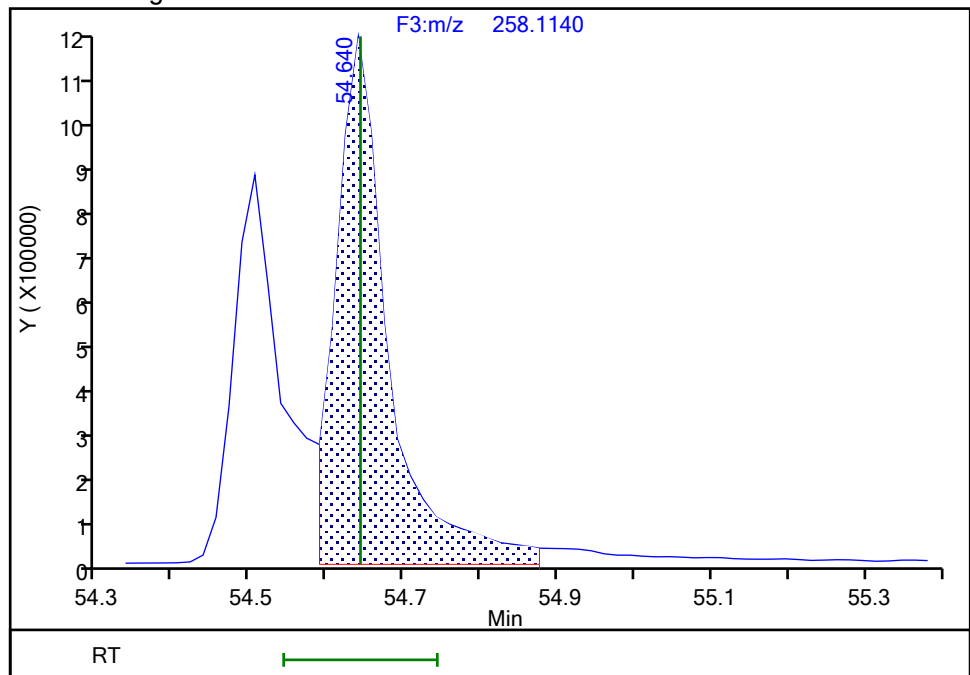
RT: 54.64
Area: 5879843
Amount: 8.530072
Amount Units: pg/ul

Processing Integration Results



RT: 54.64
Area: 5712549
Amount: 8.287374
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:24:17 -04:00:00 (UTC)

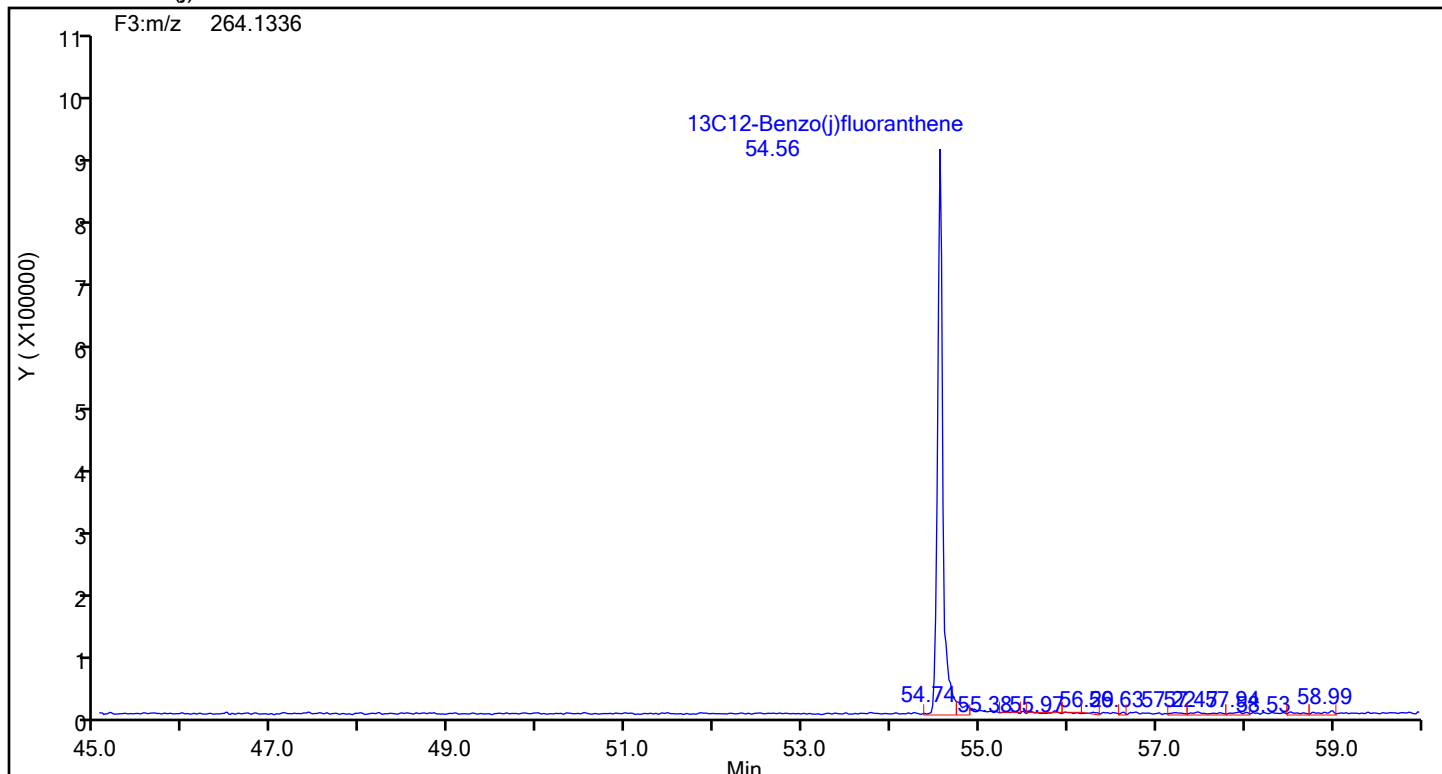
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

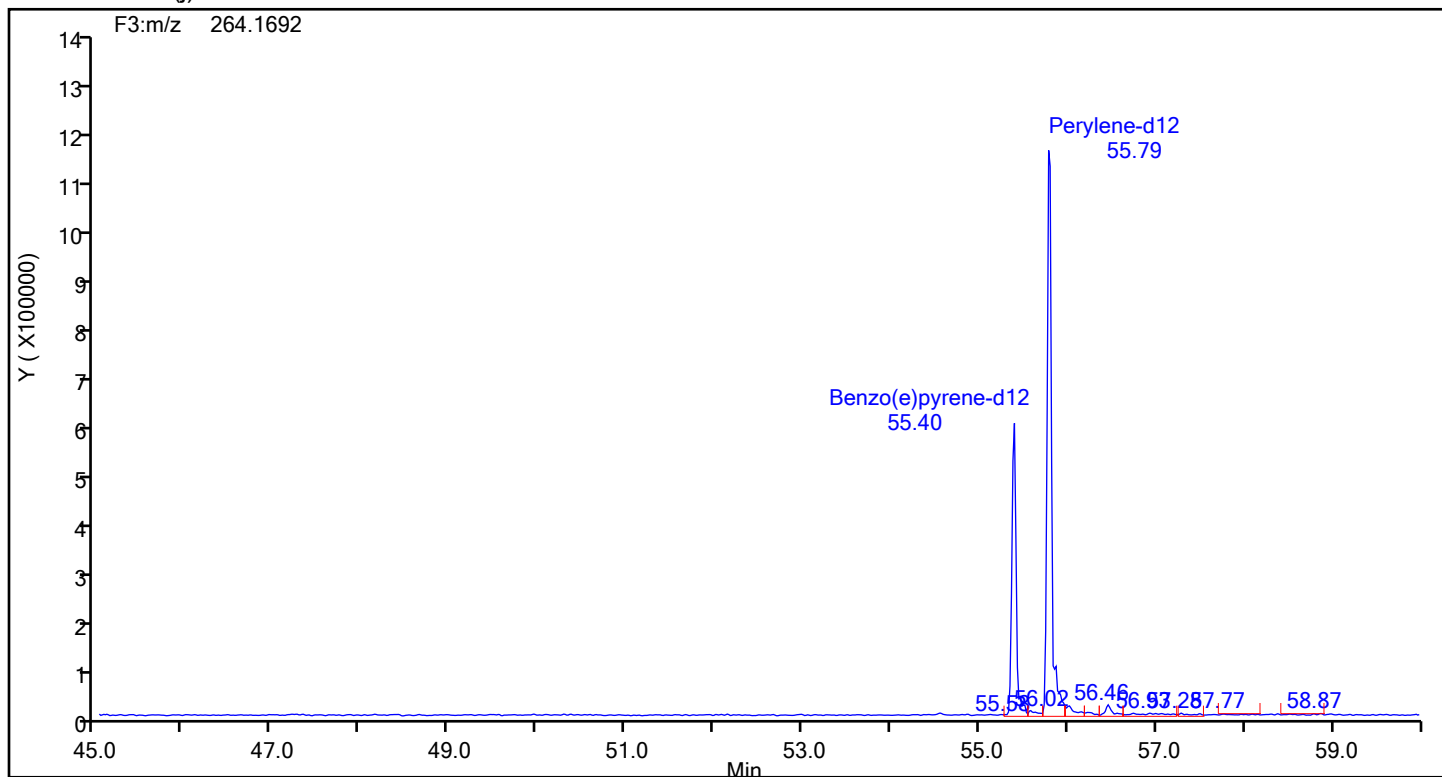
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



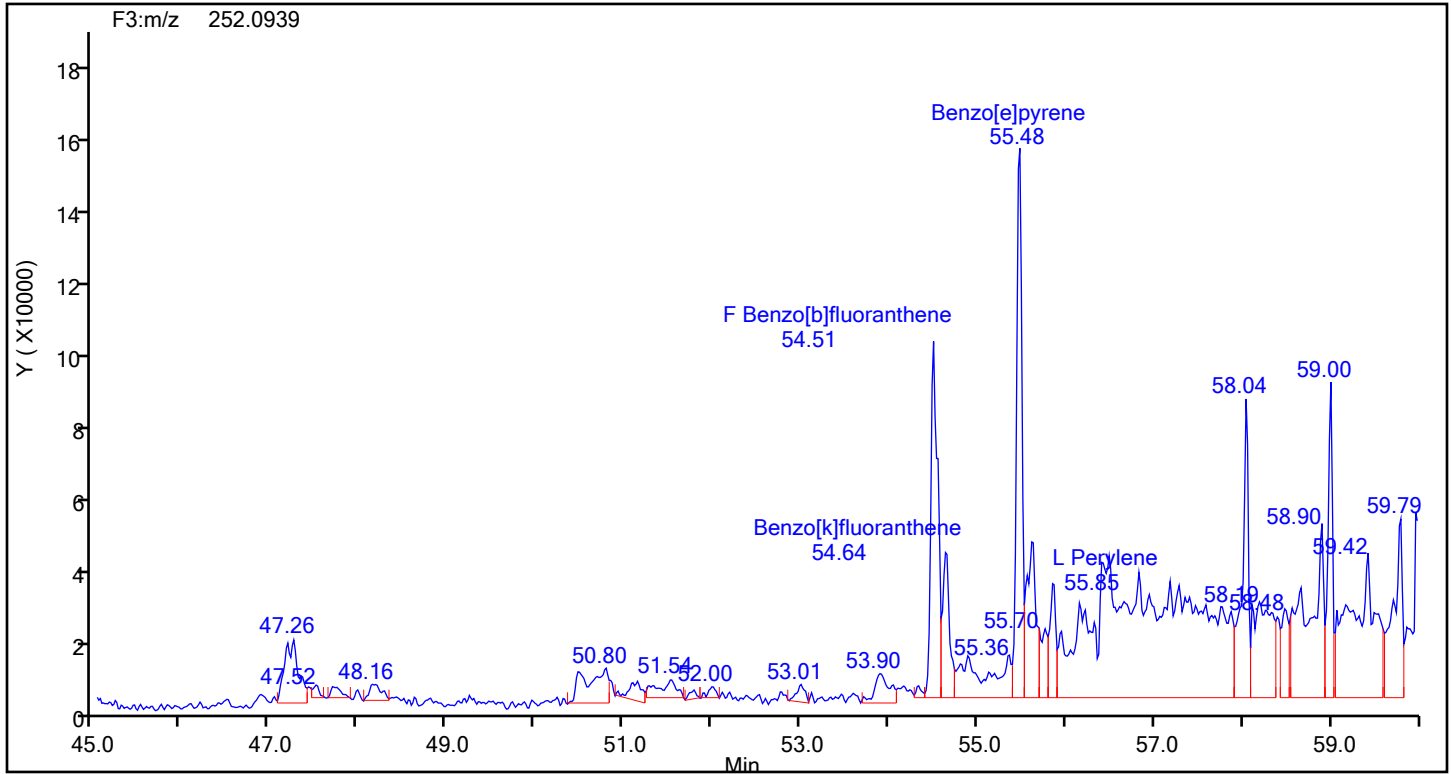
13C12-Benzo(j)fluoranthene Standards



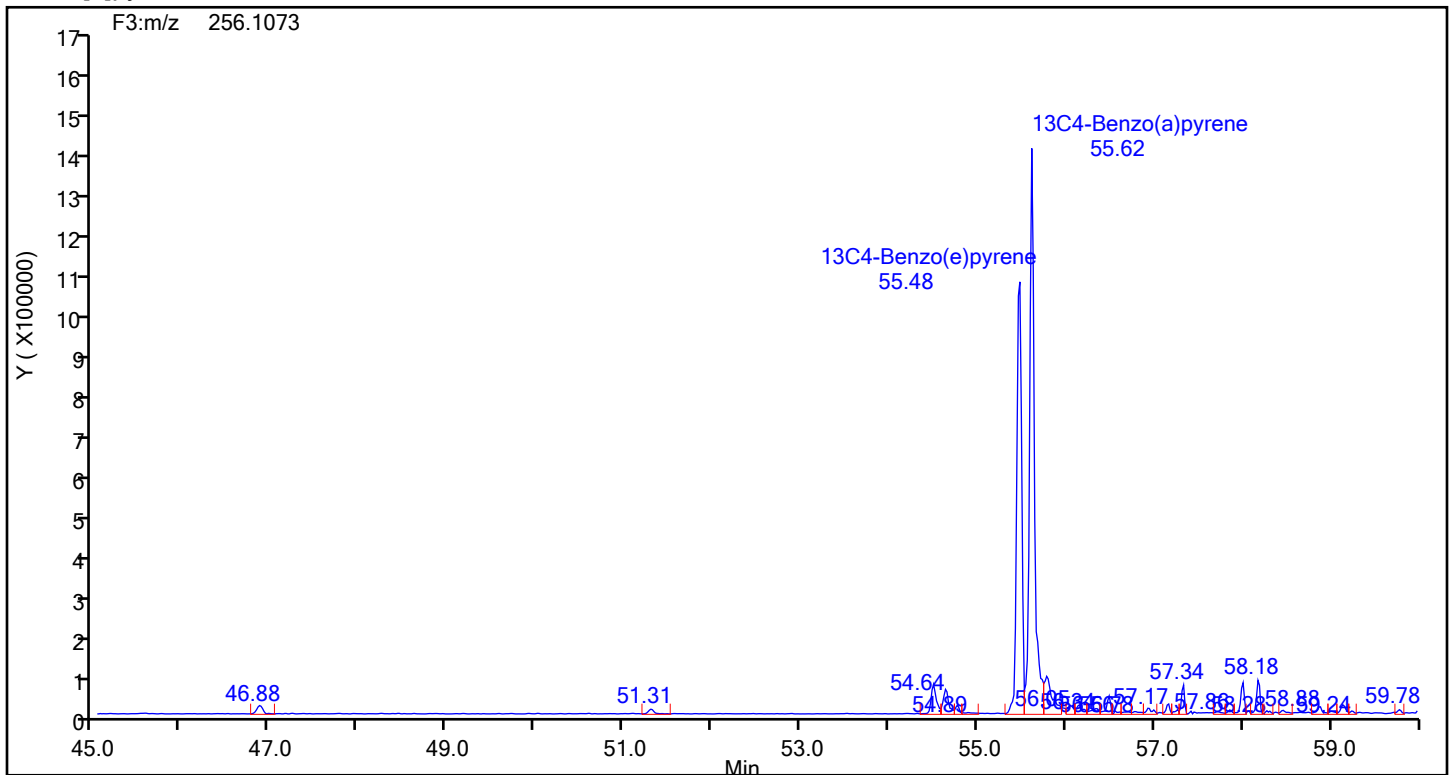
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

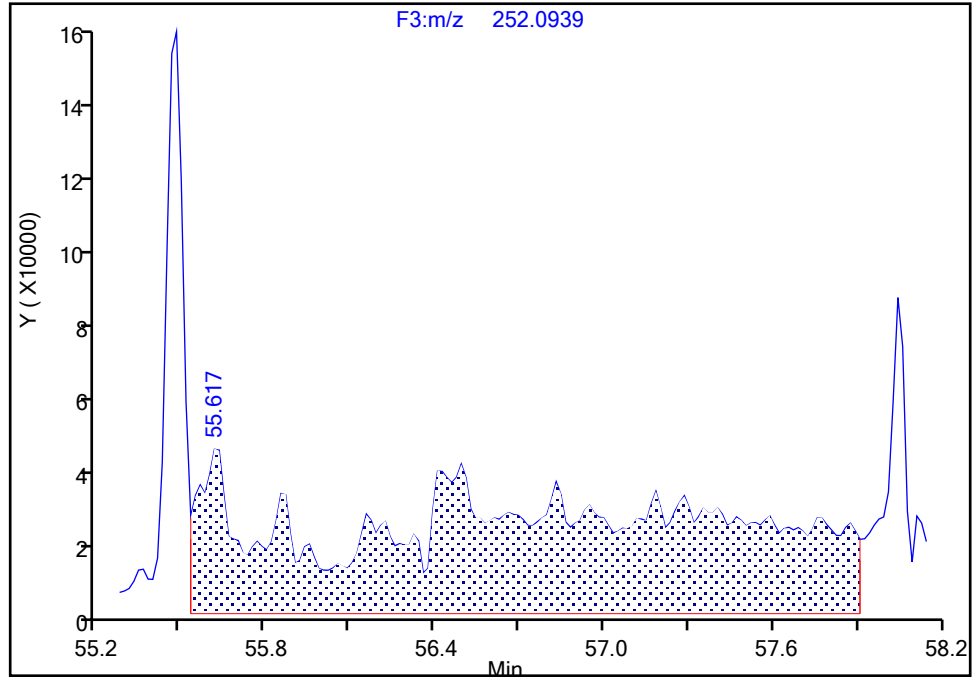
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

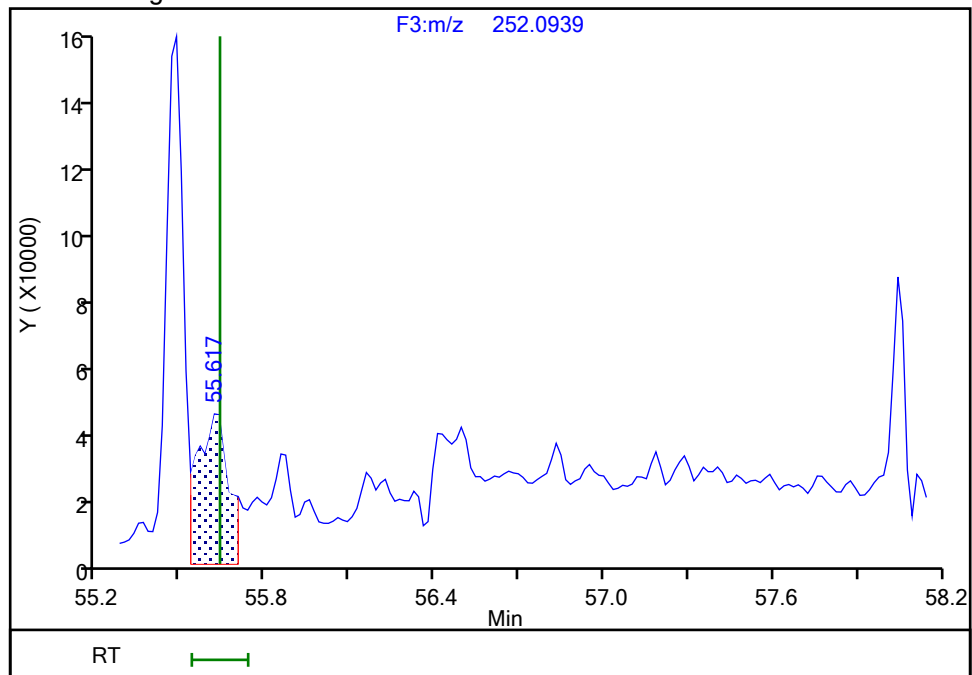
RT: 55.62
Area: 3277264
Amount: 5.651576
Amount Units: pg/ul

Processing Integration Results



RT: 55.62
Area: 325375
Amount: 0.561103
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:25:38 -04:00:00 (UTC)

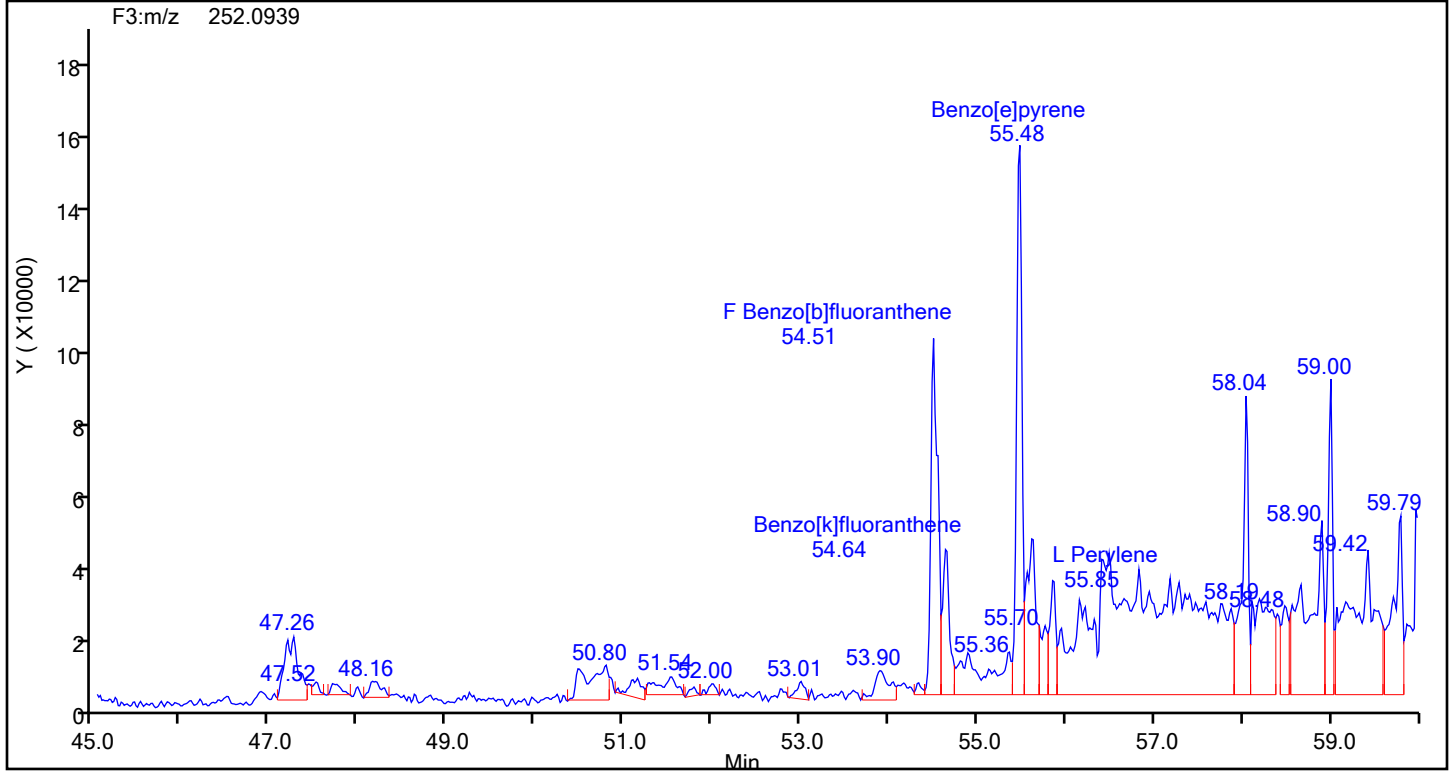
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

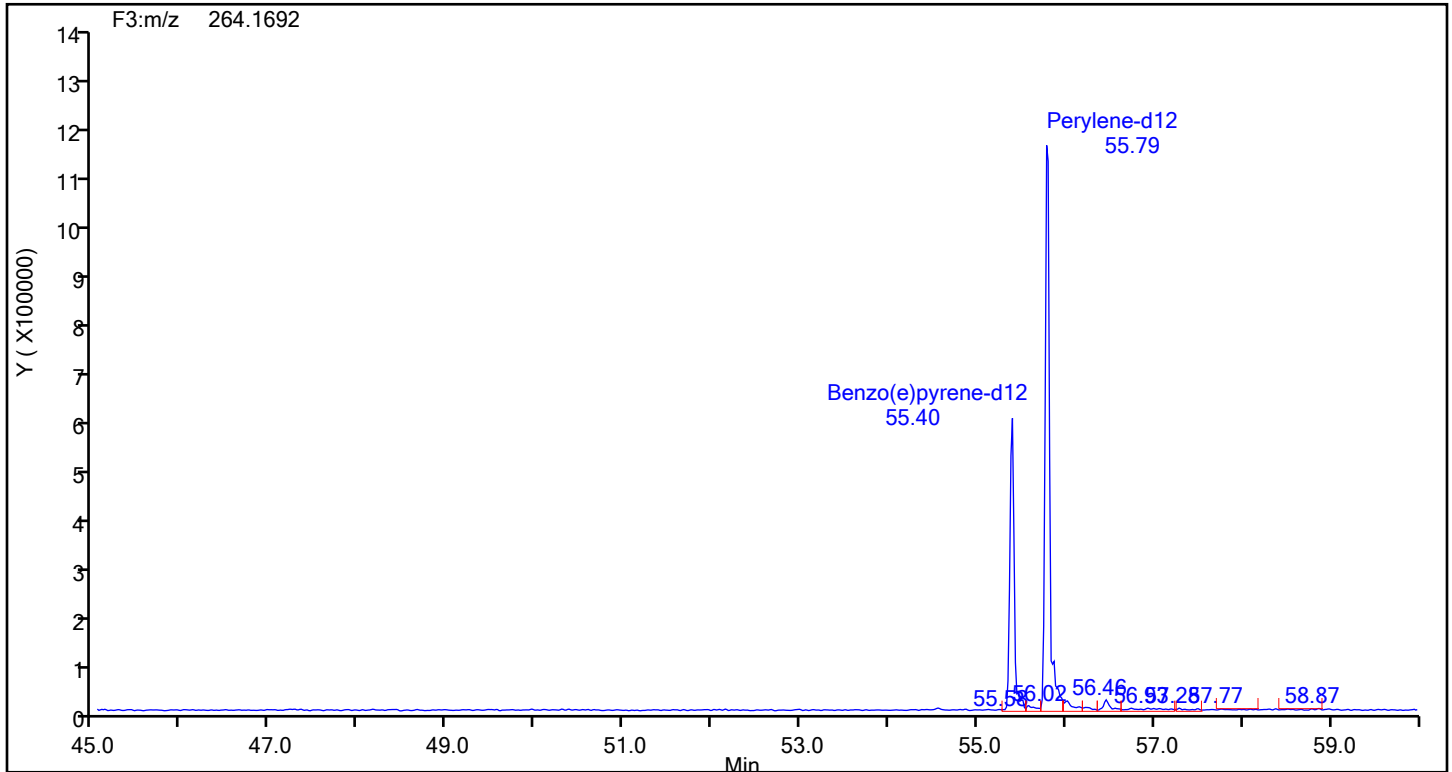
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

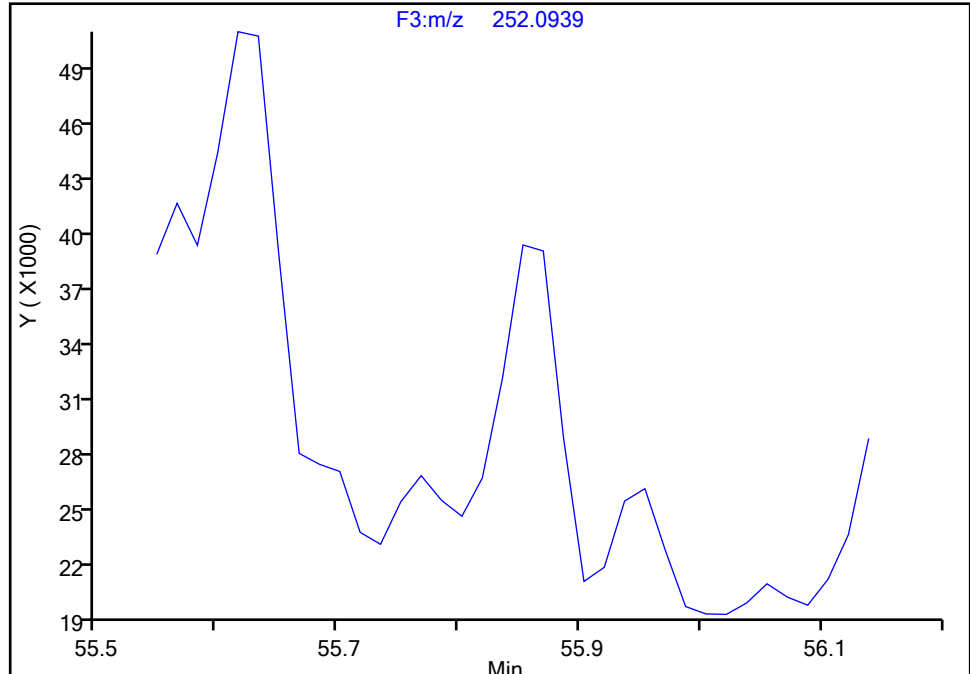
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

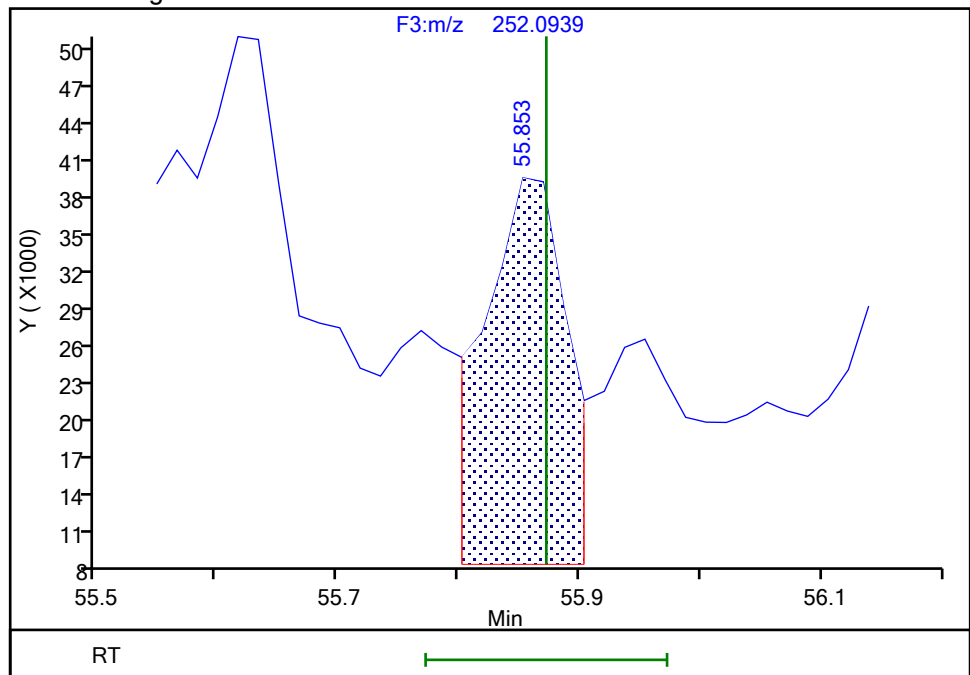
Not Detected
Expected RT: 55.87

Processing Integration Results



RT: 55.85
Area: 152929
Amount: 0.266605
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:24:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d

Injection Date: 19-Jul-2024 19:27:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAL ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

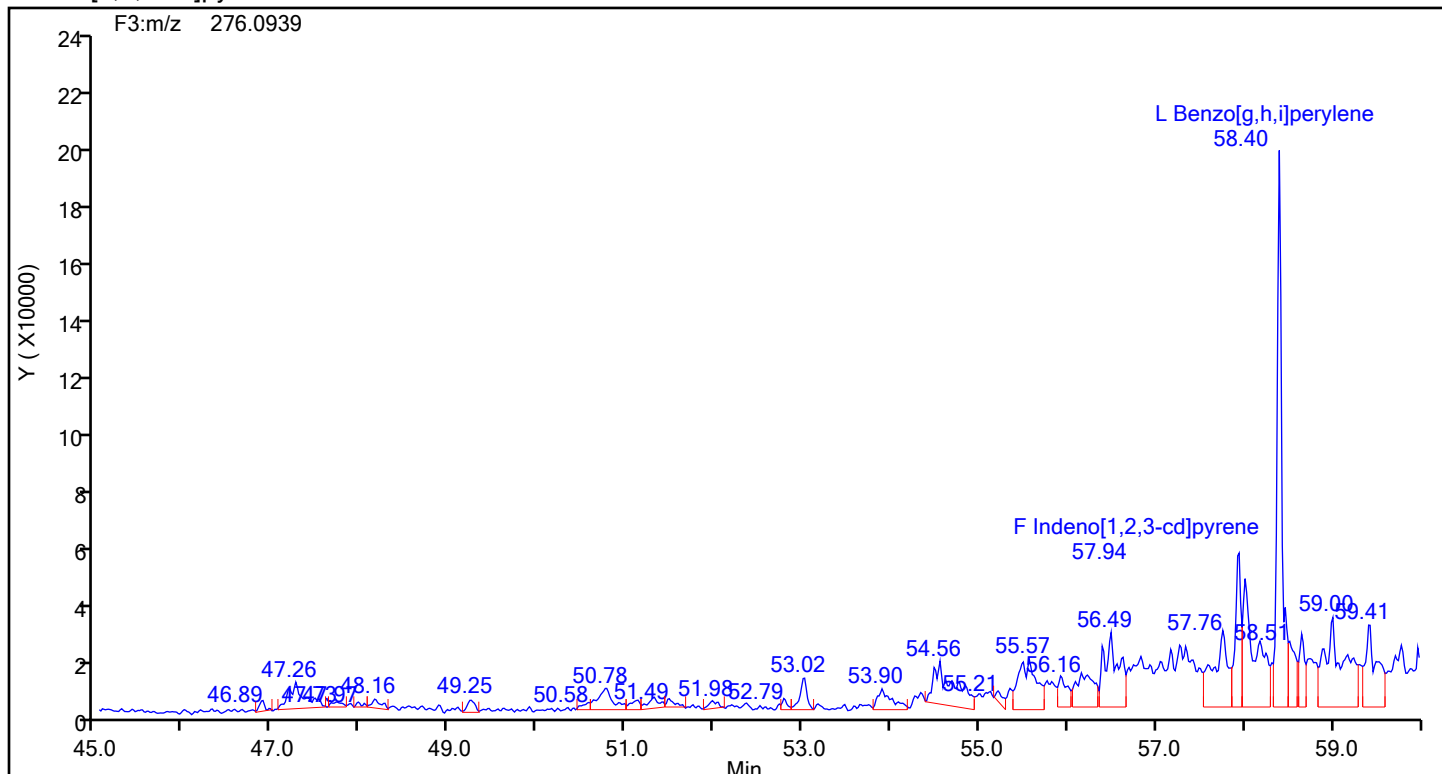
Worklist#: 88978

Sample Line#: 9

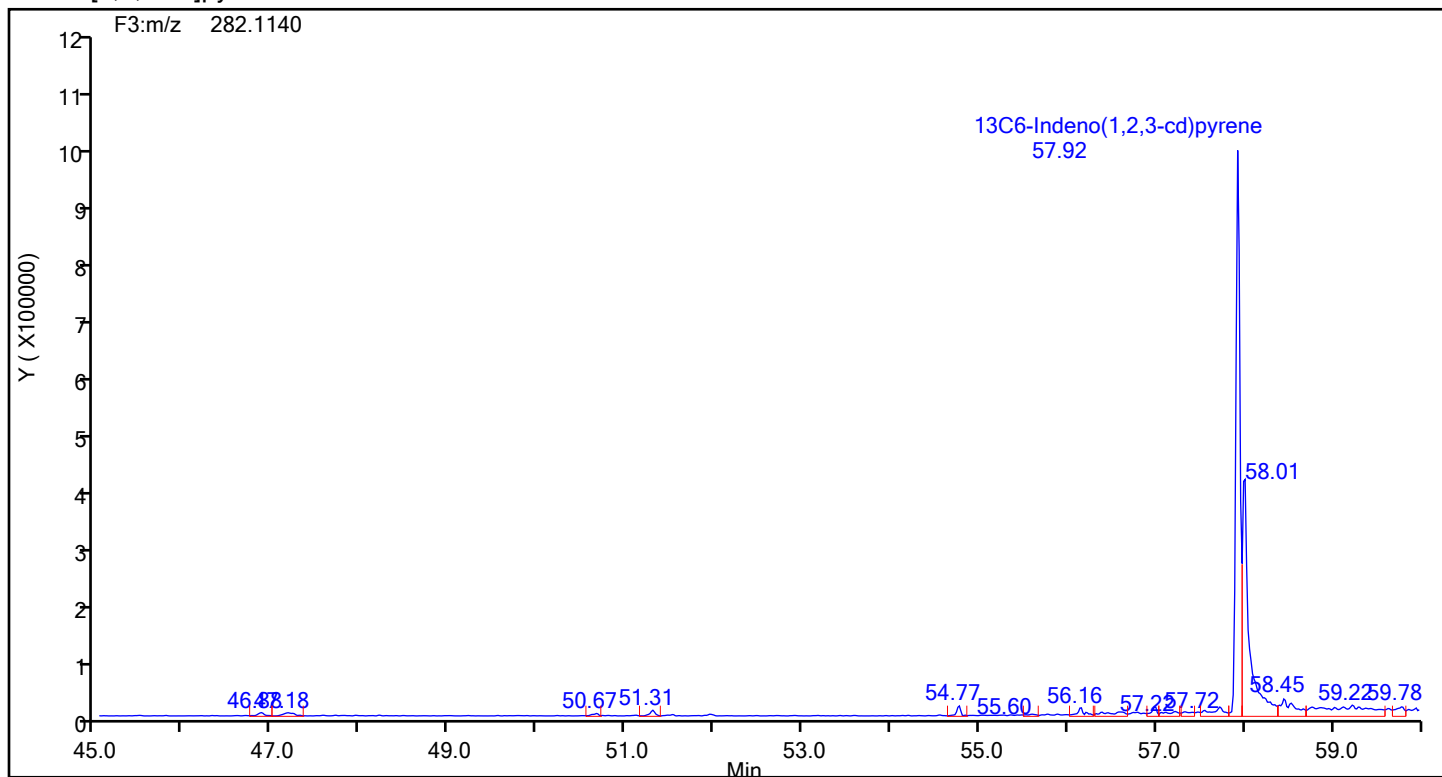
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

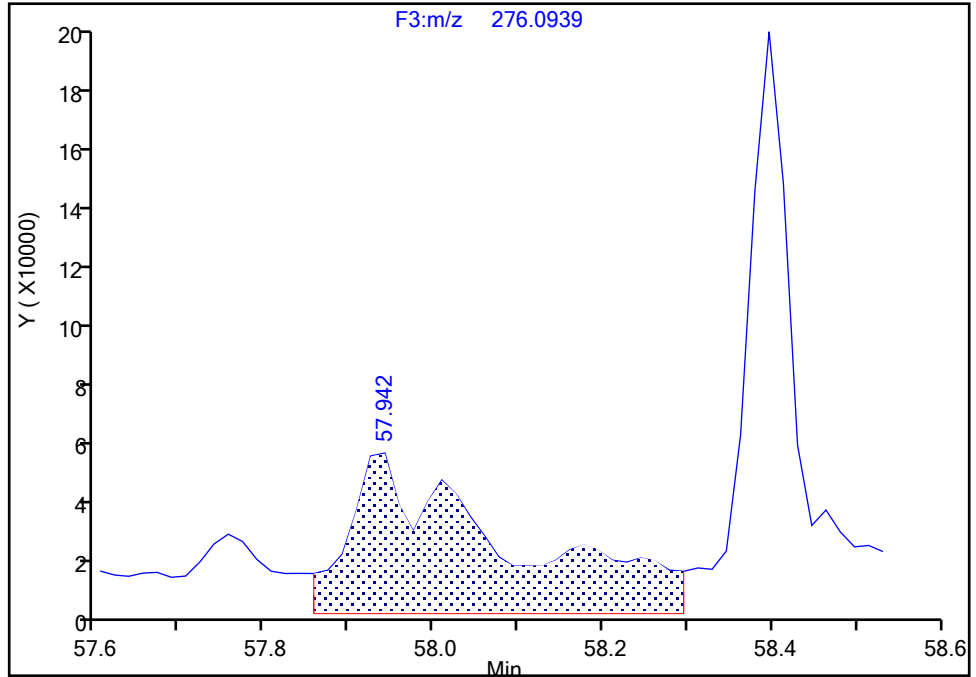
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

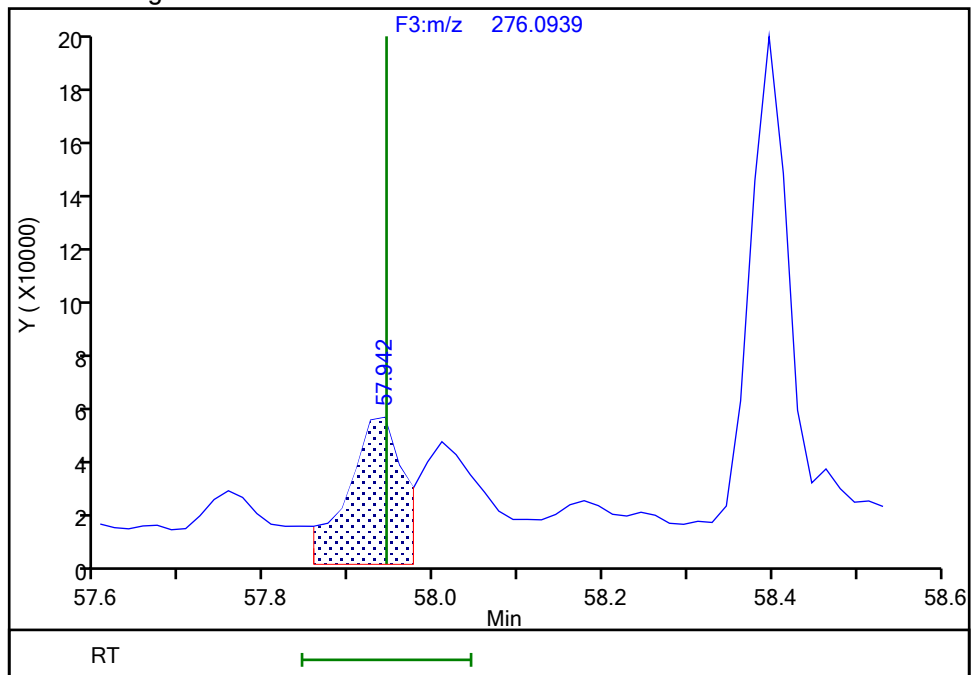
RT: 57.94
Area: 653305
Amount: 1.774594
Amount Units: pg/ul

Processing Integration Results



RT: 57.94
Area: 246300
Amount: 0.669033
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:23:51 -04:00:00 (UTC)

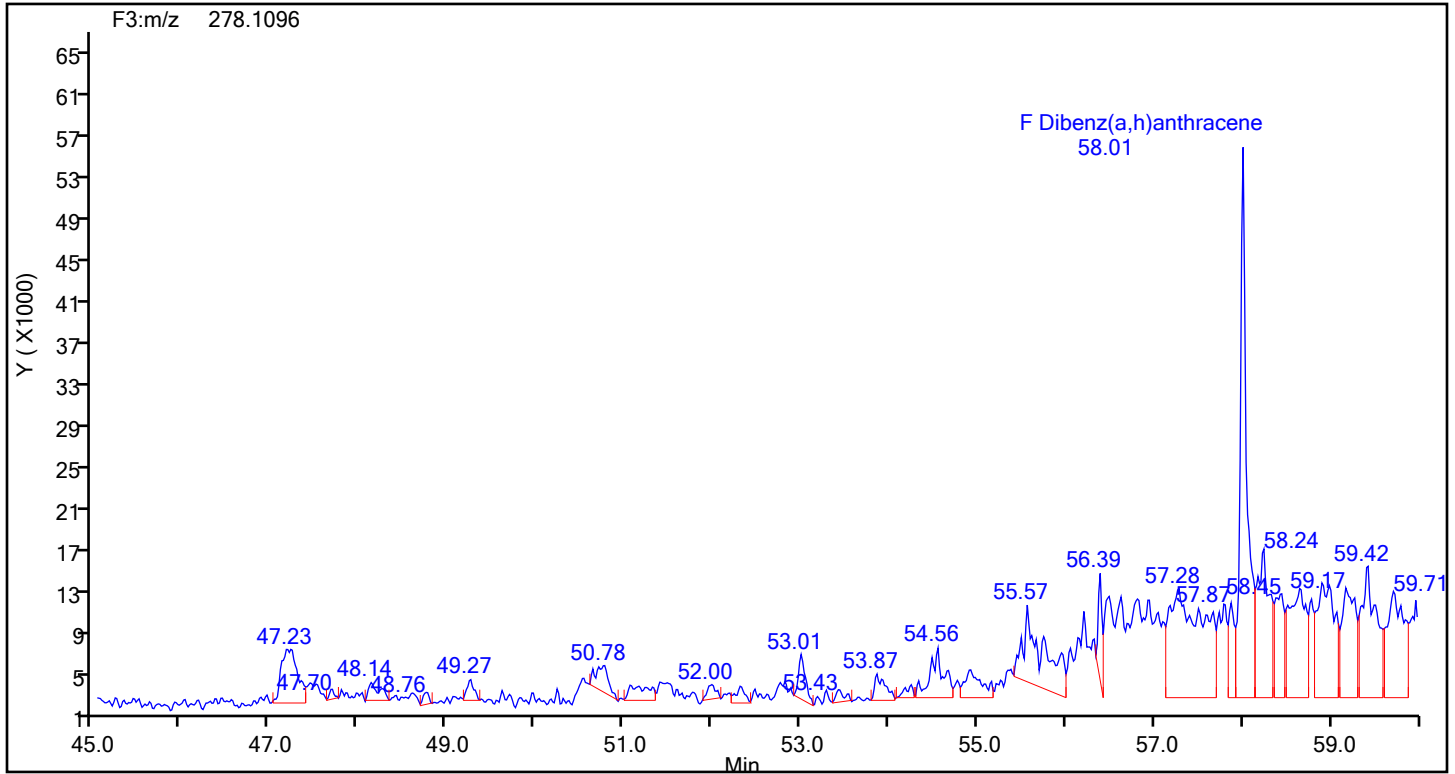
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

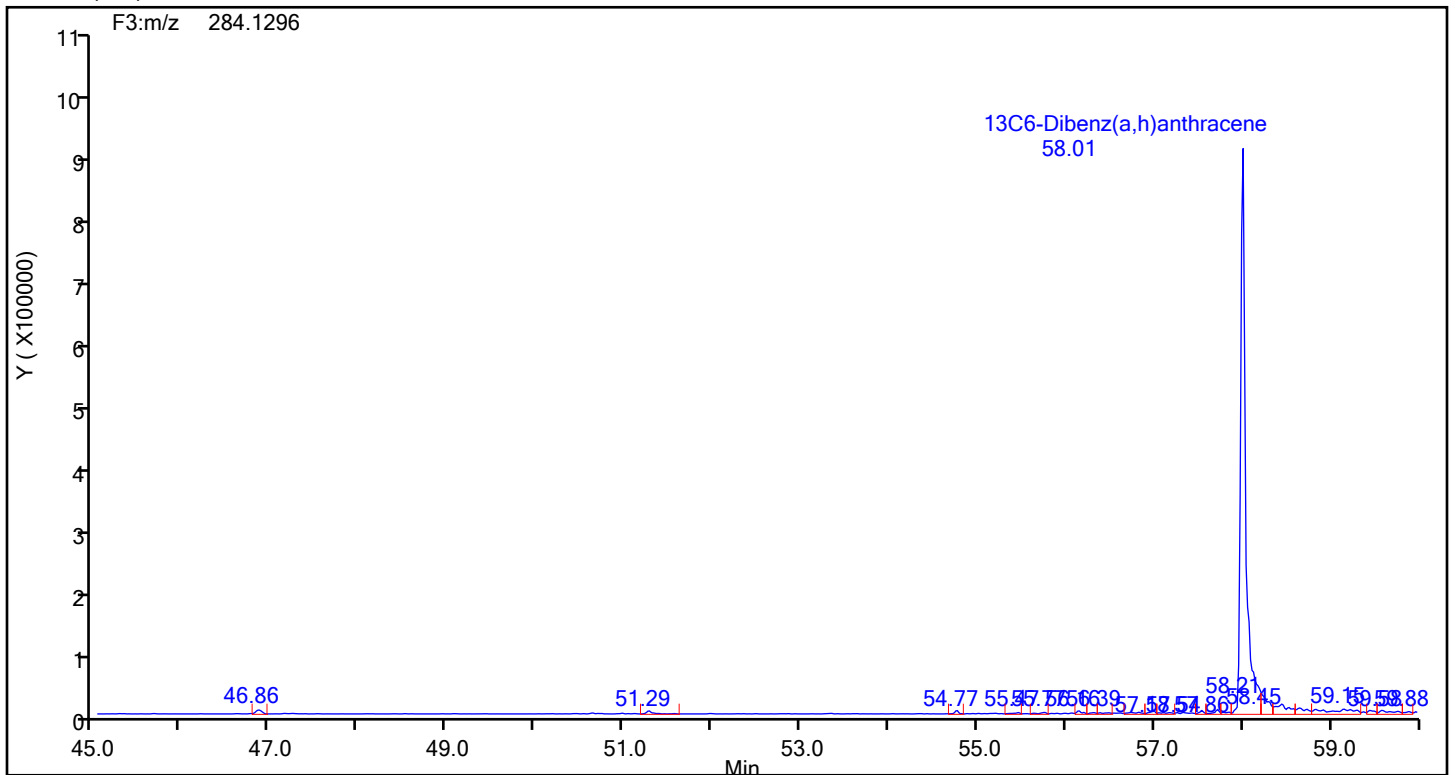
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88978 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

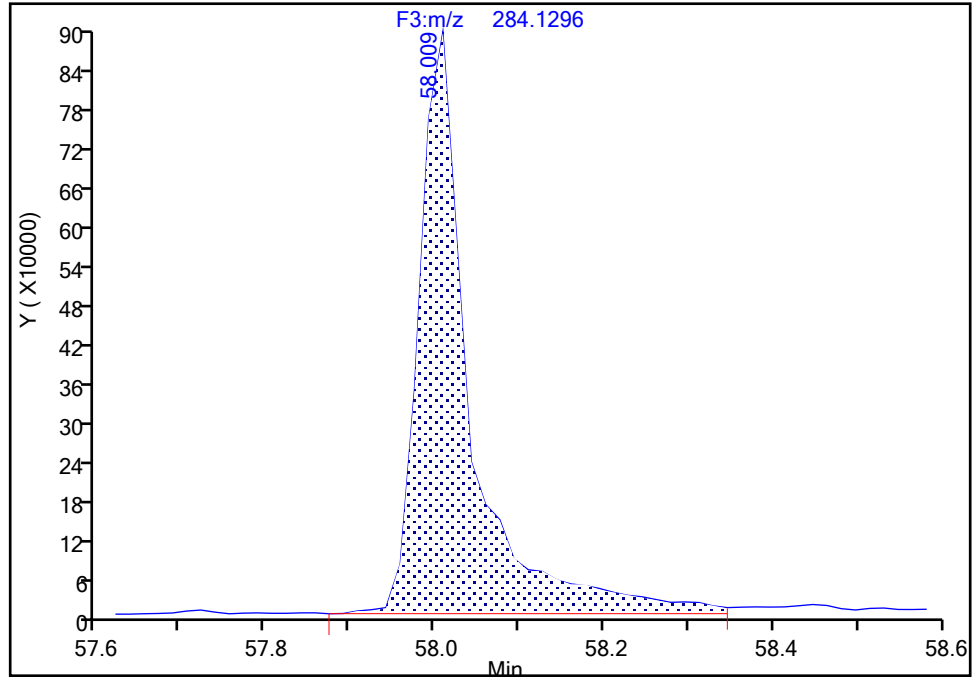
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

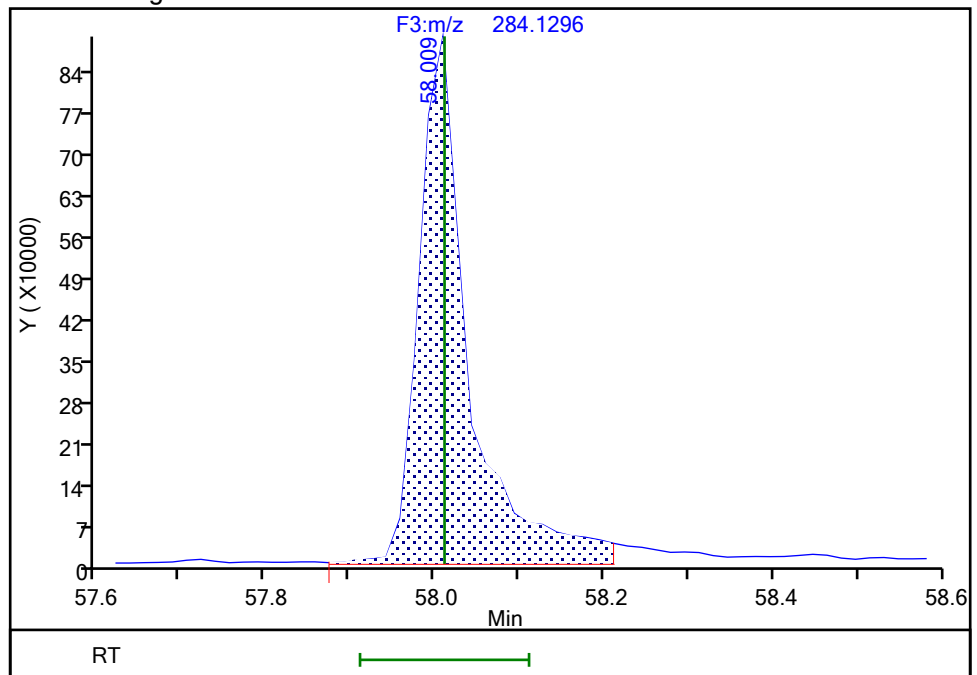
RT: 58.01
Area: 3852589
Amount: 9.272179
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 3697600
Amount: 8.899161
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:24:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d

Injection Date: 19-Jul-2024 19:27:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED

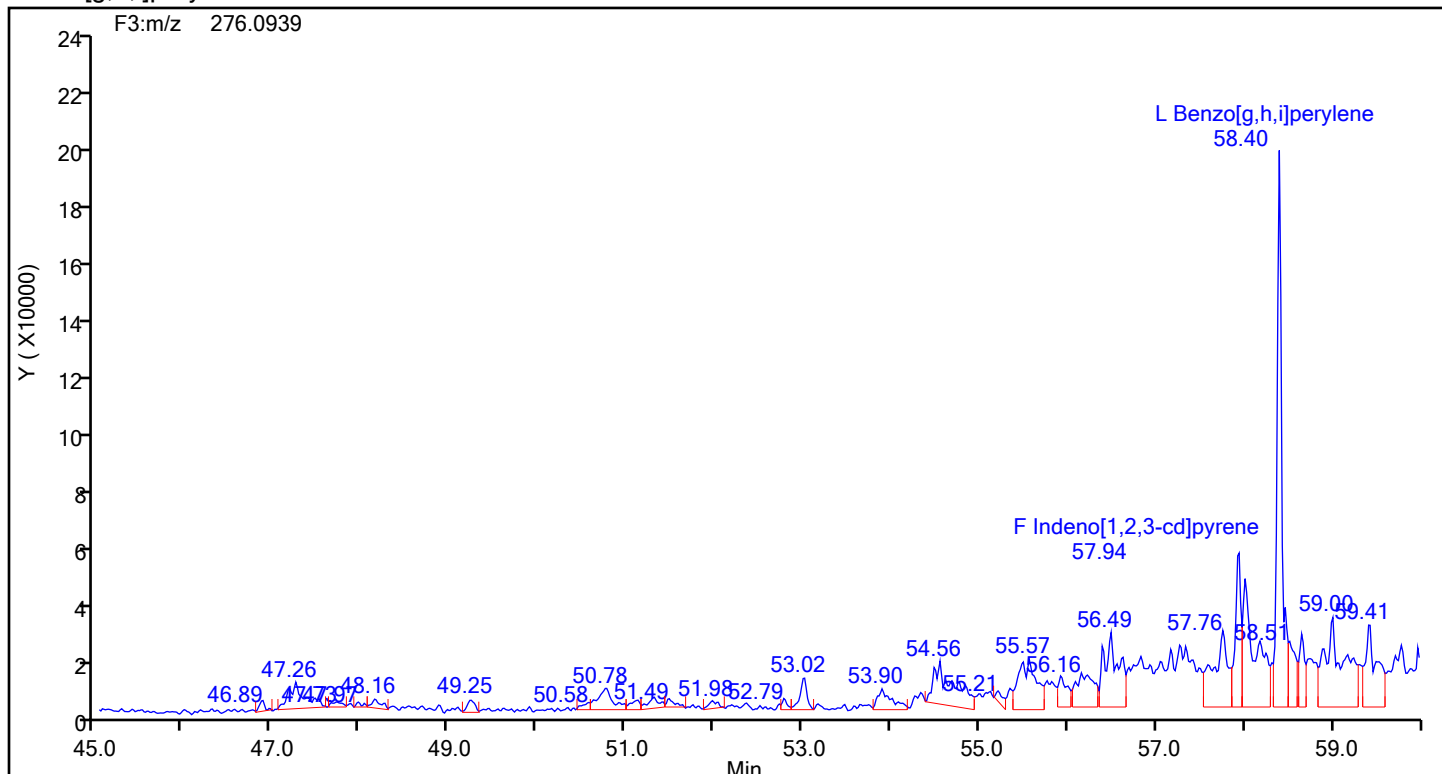
Worklist#: 88978

Sample Line#: 9

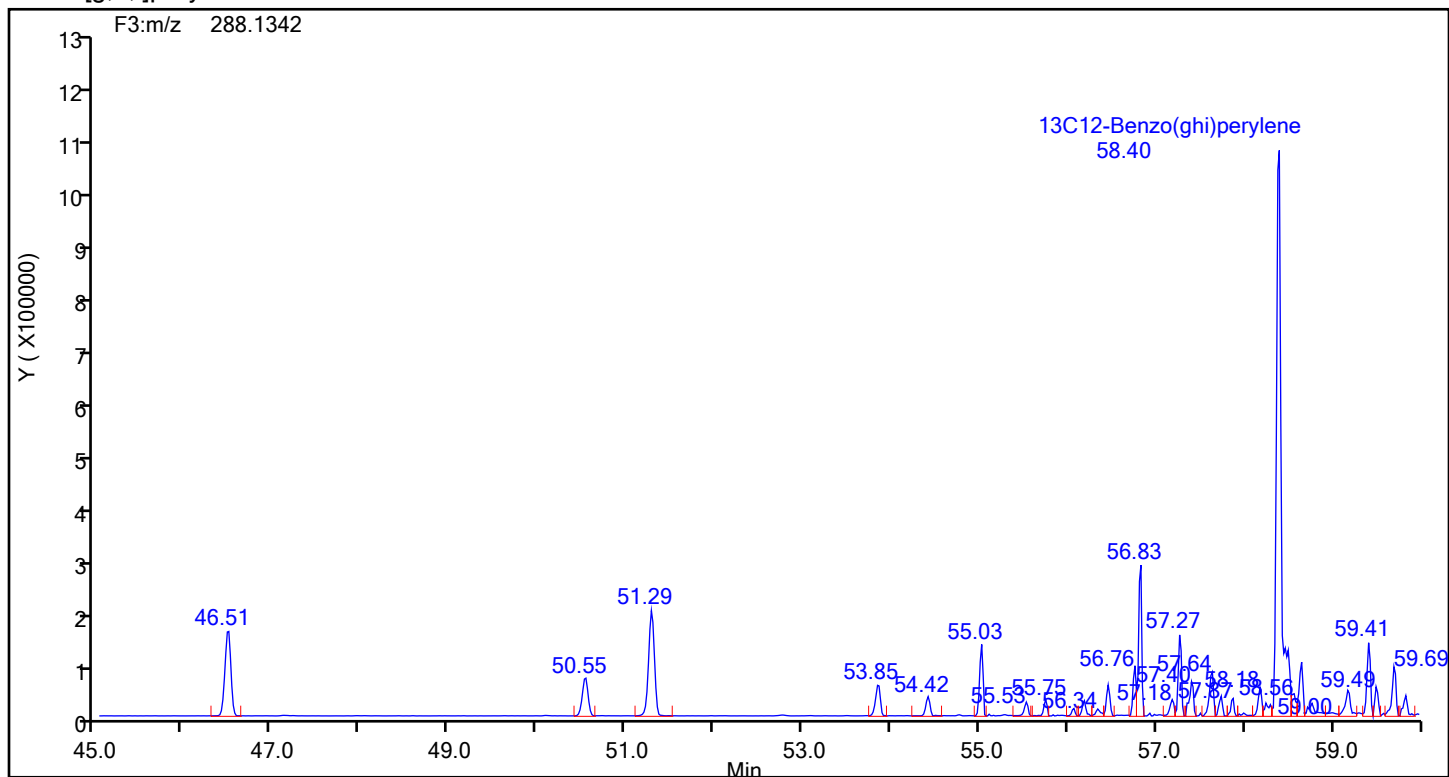
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

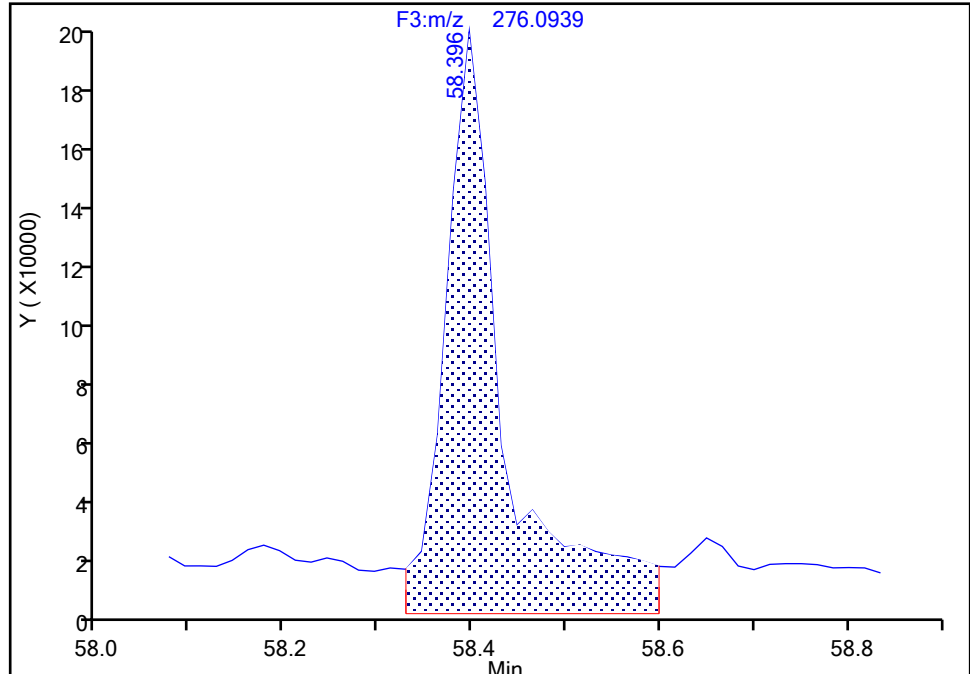
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Injection Date: 19-Jul-2024 19:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-3-C Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

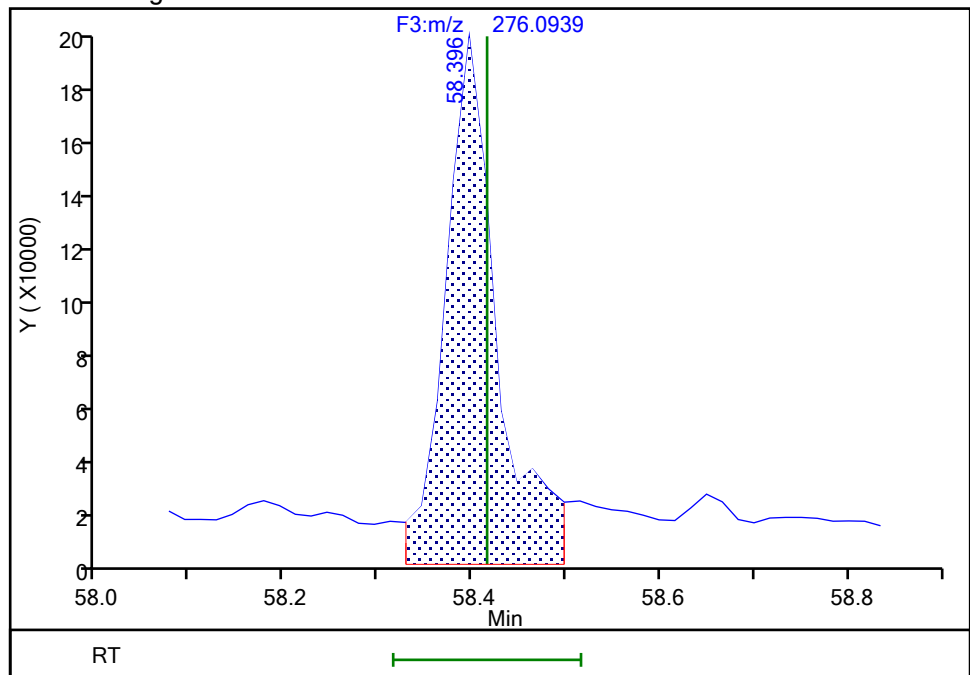
RT: 58.40
Area: 822323
Amount: 1.602460
Amount Units: pg/ul

Processing Integration Results



RT: 58.40
Area: 724437
Amount: 1.411710
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:25:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-3-c.d
Lims ID: 140-37232-A-3-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 19:27:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033585-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 09:26:00 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 09:26:00

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.6730	67.30
13C6-Benzo(c)fluorene	100.0	10.3	103.14
13C12-Benzo(j)fluoranthene	100.0	6.92	69.22

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 4 - COMBINED</u>	Lab Sample ID: <u>140-37232-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-4-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 18:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 20:31</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	899	B *+	750	750	1.18
91-57-6	2-Methylnaphthalene	398	J B	750	750	1.12
208-96-8	Acenaphthylene	9.70	J B	30.0	30.0	0.758
83-32-9	Acenaphthene	76.2	J B	300	300	0.977
86-73-7	Fluorene	128	J B	300	300	1.27
85-01-8	Phenanthrene	331	B	60.0	60.0	1.17
120-12-7	Anthracene	32.7	J B	300	300	1.19
206-44-0	Fluoranthene	79.8	B	60.0	60.0	0.427
129-00-0	Pyrene	114	B	60.0	60.0	0.443
56-55-3	Benzo[a]anthracene	5.89	J B	60.0	60.0	0.699
218-01-9	Chrysene	19.9	J B	60.0	60.0	0.670
205-99-2	Benzo[b]fluoranthene	23.6	J B	300	300	0.189
207-08-9	Benzo[k]fluoranthene	9.67	J B	60.0	60.0	0.186
192-97-2	Benzo[e]pyrene	93.6	B	60.0	60.0	0.149
50-32-8	Benzo[a]pyrene	11.2	J B	30.0	30.0	0.170
198-55-0	Perylene	42.0	B	30.0	30.0	0.130
193-39-5	Indeno[1,2,3-cd]pyrene	40.2	B	30.0	30.0	0.165
53-70-3	Dibenz(a,h)anthracene	10.0	J B	60.0	60.0	0.136
191-24-2	Benzo[g,h,i]perylene	127	B	60.0	60.0	0.131

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 4 - COMBINED</u>	Lab Sample ID: <u>140-37232-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-4-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 18:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 20:31</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	41		20-130
STL03357	13C6-2-Methylnaphthalene	39		20-130
189811-56-1	13C6-Acenaphthylene	61		20-130
189811-57-2	13C6-Acenaphthene	57		20-130
STL00616	13C6-Fluorene	64		20-130
1397194-60-3	13C6-Fluoranthrene	77		20-130
1397214-90-2	13C3-Pyrene	74		20-130
917378-11-1	13C6-Benzo (a) anthracene	55		20-130
1397177-72-8	13C6-Chrysene	63		20-130
STL03358	13C6-Benzo (b) fluoranthene	67		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	76		20-130
STL03382	13C4-Benzo (e) pyrene	73		20-130
STL03359	13C4-Benzo (a) pyrene	77		20-130
1520-96-3	Perylene-d12	83		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	74		20-130
STL03360	13C6-Dibenz (a,h) anthracene	81		20-130
350820-11-0	13C12-Benzo (ghi) perylene	73		20-130
189811-60-7	13C6-Anthracene	63		20-130
1189955-53-0	13C6-Phenanthrene	61		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Lims ID: 140-37232-A-4-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 20:31:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033585-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 09:28:33 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 09:28:33

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	1213685		3.3746	4.145	4.145	0.001220	0.001220	41.45	
Naphthalene	11:28	9375197		1.2893	59.9	59.9	0.0786	0.0786		M
D 13C6-2-Methylnaphthalene	13:48	544070		1.6031	3.912	3.912	0.000040	0.000040	39.12	
2-Methylnaphthalene	13:48	1847156		1.2786	26.6	26.6	0.0747	0.0747		
D 13C6-Acenaphthylene	16:38	880451		1.6520	6.142	6.142	0.001477	0.001477	61.42	
Acenaphthylene	16:39	74354		2.3661	0.6469	0.6469	0.0506	0.0506		M
* Acenaphthene-d10	17:13	433832		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	485764		0.9792	5.718	5.718	0.002168	0.002168	57.18	
Acenaphthene	17:20	313183		1.2697	5.078	5.078	0.0651	0.0651		
Fluorene	19:37	528997		1.2532	8.514	8.514	0.0846	0.0846		
D 13C6-Fluorene	19:36	495785		0.8898	6.421	6.421	0.004166	0.004166	64.21	
D 13C6-Phenanthrene	24:57	820444		0.5724	6.142	6.142	0.000758	0.000758	61.42	
Phenanthrene	24:57	2000549		1.1044	22.1	22.1	0.0777	0.0777		
\$ Anthracin-d10	25:10	63841		0.4257	0.6427	0.6427	0.000719	0.000719	64.27	
D 13C6-Anthracene	25:17	667803		0.4523	6.327	6.327	0.000959	0.000959	63.27	
Anthracene	25:17	197497		1.3586	2.177	2.177	0.0791	0.0791		M
D 13C6-Fluoranthrene	33:41	2143733		1.1994	7.660	7.660	0.0227	0.0227	76.60	
Fluoranthene	33:42	1312956		1.1513	5.320	5.320	0.0285	0.0285		
* Pyrene-d10	35:14	1166745		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:22	2324997		1.3512	7.374	7.374	0.0131	0.0131	73.74	
Pyrene	35:22	1888900		1.0652	7.627	7.627	0.0295	0.0295		
\$ 13C6-Benzo(c)fluorene	39:05	1000111		0.5136	8.345	8.345	0.005963	0.005963	83.45	
D 13C6-Benzo(a)anthracene	45:54	1728949		1.5189	5.467	5.467	0.007565	0.007565	54.67	
Benzo[a]anthracene	45:55	66080		0.9739	0.3925	0.3925	0.0466	0.0466		
D 13C6-Chrysene	46:10	2136902		1.6287	6.301	6.301	0.007055	0.007055	63.01	M
Chrysene	46:10	277652		0.9815	1.324	1.324	0.0446	0.0446		
D 13C6-Benzo(b)fluoranthene	54:31	2053371		1.4621	6.745	6.745	0.001556	0.001556	67.45	
Benzo[b]fluoranthene	54:31	363073		1.1249	1.572	1.572	0.0126	0.0126		
\$ 13C12-Benzo(j)fluoranthene	54:33	1977403		1.3558	7.004	7.004	0.0139	0.0139	70.04	
D 13C6-Benzo(k)fluoranthene	54:39	2779342		1.7507	7.625	7.625	0.001299	0.001299	76.25	
Benzo[k]fluoranthene	54:39	201852		1.1271	0.6444	0.6444	0.0124	0.0124		M
* Benzo(e)pyrene-d12	55:24	1041084		5.7E+04	5.000	5.000				M
D 13C4-Benzo(e)pyrene	55:29	2472186		1.6368	7.254	7.254	0.003726	0.003726	72.54	
Benzo[e]pyrene	55:29	1544012		1.0013	6.238	6.238	0.0099	0.0099		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:38	2496844		1.5508	7.733	7.733	0.003933	0.003933	77.33	
Benzo[a]pyrene	55:38	207858		1.1130	0.7479	0.7479	0.0113	0.0113		
D Perylene-d12	55:48	2066477		1.1917	8.328	8.328	0.0136	0.0136	83.28	M
Perylene	55:52	828786		1.4307	2.803	2.803	0.008688	0.008688		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	1576986		1.0218	7.412	7.412	0.009514	0.009514	74.12	
Indeno[1,2,3-cd]pyrene	57:56	474959		1.1249	2.677	2.677	0.0110	0.0110		M
D 13C6-Dibenz(a,h)anthracene	58:00	1789717		1.0553	8.145	8.145	0.004183	0.004183	81.45	M
Dibenz(a,h)anthracene	58:01	135645		1.1314	0.6699	0.6699	0.009069	0.009069		M
D 13C12-Benzo(ghi)perylene	58:24	1942568		1.2749	7.318	7.318	0.0106	0.0106	73.18	M
Benzo[g,h,i]perylene	58:25	2105082		1.2838	8.441	8.441	0.008762	0.008762		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
 Lims ID: 140-37232-A-4-C
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
 Sample Type: Client
 Inject. Date: 19-Jul-2024 20:31:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Misc. Info.: 140-0033585-010
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jul-2024 09:28:33 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 09:28:33

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:28	11:27	1	0.666	1213685	409252	52	130	7870		
Naphthalene											
128.0626	11:28	11:28	0	1.000	9375197	3053107	1659	4147	1840		M
13C6-2-Methylnaphthalene											
148.0984	13:48	13:49	-1	0.802	544070	236661	1	2	236661		M
2-Methylnaphthalene											
142.0783	13:48	13:47	-1	1.000	1847156	793293	904	2260	878		
13C6-Acenaphthylene											
158.0828	16:38	16:40	-1	0.967	880451	292993	31	77	9451		
Acenaphthylene											
152.0626	16:39	16:39	-1	1.000	74354	24828	787	1967	32		M
Acenaphthene-d10											
164.1404	17:13	17:14	-1		433832	157824	20	50	7891		
13C6-Acenaphthene											
160.0984	17:20	17:21	-1	1.007	485764	164443	27	67	6090		
Acenaphthene											
154.0783	17:20	17:20	-2	1.000	313183	101664	544	1360	187		
Fluorene											
166.0783	19:37	19:37	-1	1.001	528997	116928	560	1400	209		
13C6-Fluorene											
172.0984	19:36	19:38	-2	1.139	495785	132055	47	117	2810		
13C6-Phenanthrene											
184.0984	24:57	24:58	-2	0.708	820444	166097	7	17	23728		
Phenanthrene											
178.0783	24:57	24:58	-2	1.000	2000549	398543	570	1425	699		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:11	-2	0.714	63841	14342	5	12	2868		
13C6-Anthracene											
184.0984	25:17	25:14	-2	0.718	667803	132567	7	17	18938		
Anthracene											
178.0783	25:17	25:17	-2	1.000	197497	35997	570	1425	63		M
13C6-Fluoranthrene											
208.0984	33:41	33:42	-2	0.956	2143733	364989	427	1067	855		
Fluoranthene											
202.0783	33:42	33:42	-2	1.000	1312956	211832	479	1197	442		
Pyrene-d10											
212.1404	35:14	35:15	-2		1166745	195911	42	105	4665		
13C3-Pyrene											
205.0883	35:22	35:23	-2	1.004	2324997	380897	278	695	1370		
Pyrene											
202.0783	35:22	35:24	-2	1.000	1888900	316302	479	1197	660		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:05	-1	0.705	1000111	155331	48	120	3236		
13C6-Benzo(a)anthracene											
234.1140	45:54	45:55	-1	1.303	1728949	251058	273	682	920		
Benzo[a]anthracene											
228.0939	45:55	45:54	0	1.000	66080	10486	456	1140	23		
13C6-Chrysene											
234.1140	46:10	46:10	-1	1.311	2136902	260161	273	682	953		M
Chrysene											
228.0939	46:10	46:11	-1	1.000	277652	31503	456	1140	69		M
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:32	-1	0.984	2053371	516829	54	135	9571		
Benzo[b]fluoranthene											
252.0939	54:31	54:33	-1	1.000	363073	71094	293	732	243		
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:34	-1	0.985	1977403	417849	447	1117	935		
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.987	2779342	523175	54	135	9688		
Benzo[k]fluoranthene											
252.0939	54:39	54:39	-1	1.000	201852	36416	293	732	124		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:25	-1		1041084	296767	385	962	771		M
13C4-Benzo(e)pyrene											
256.1073	55:29	55:30	-1	1.002	2472186	738395	145	362	5092		M
Benzo[e]pyrene											
252.0939	55:29	55:29	-1	1.000	1544012	454320	293	732	1551		M
13C4-Benzo(a)pyrene											
256.1073	55:38	55:38	0	1.004	2496844	581302	145	362	4009		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:38	55:38	-1	1.000	207858	40191	293	732	137		
Perylene-d12											
264.1692	55:48	55:48	-1	1.007	2066477	588930	385	962	1530		M
Perylene											
252.0939	55:52	55:52	-1	1.001	828786	139223	293	732	475		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	-1	1.046	1576986	486259	231	577	2105		
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	-1	1.000	474959	109326	240	600	456		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	-1	1.047	1789717	338192	105	262	3221		M
Dibenz(a,h)anthracene											
278.1096	58:01	58:01	0	1.000	135645	22377	139	347	161		M
13C12-Benzo(ghi)perylene											
288.1342	58:24	58:24	-1	1.054	1942568	533395	322	805	1657		M
Benzo[g,h,i]perylene											
276.0939	58:25	58:25	-1	1.000	2105082	532796	240	600	2220		M

QC Flag Legend

Processing Flags

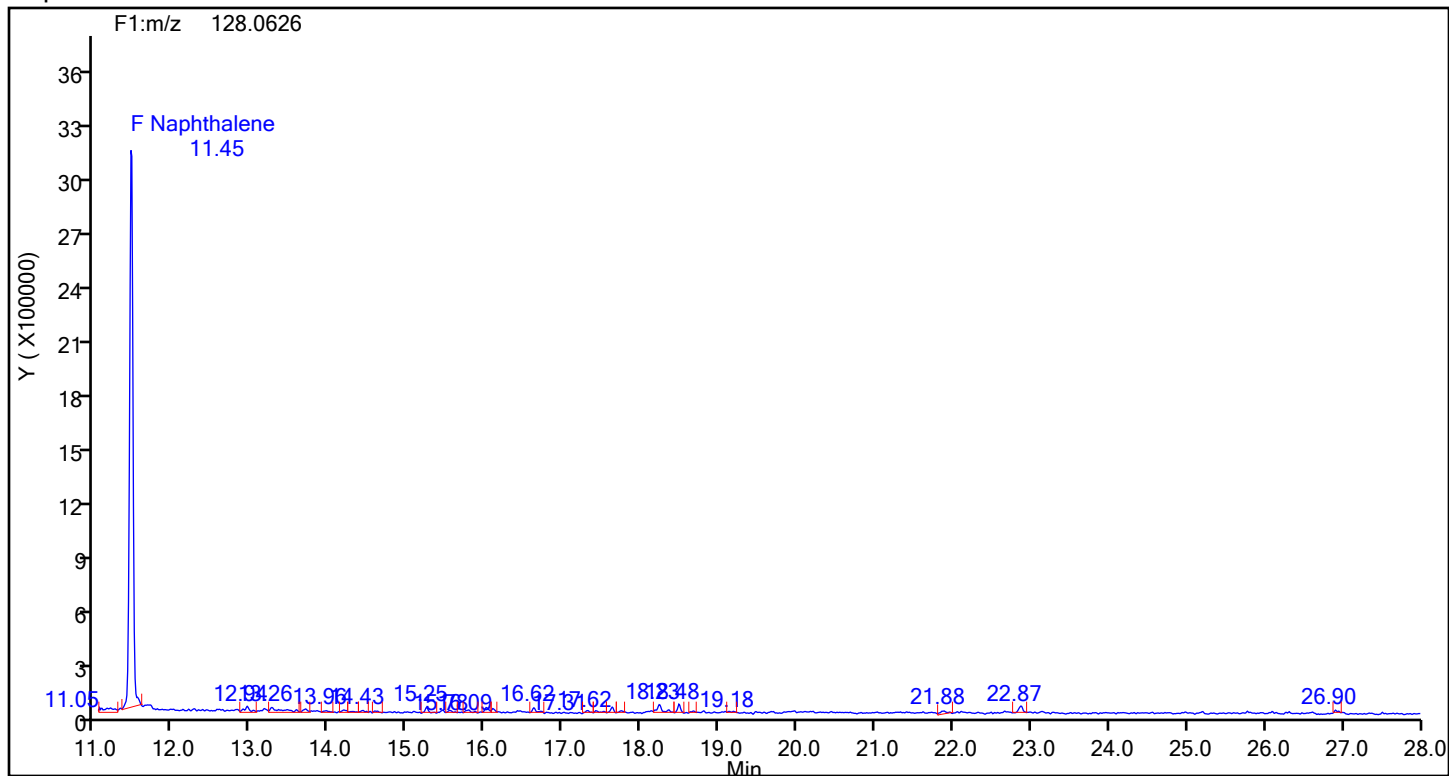
Review Flags

M - Manually Integrated

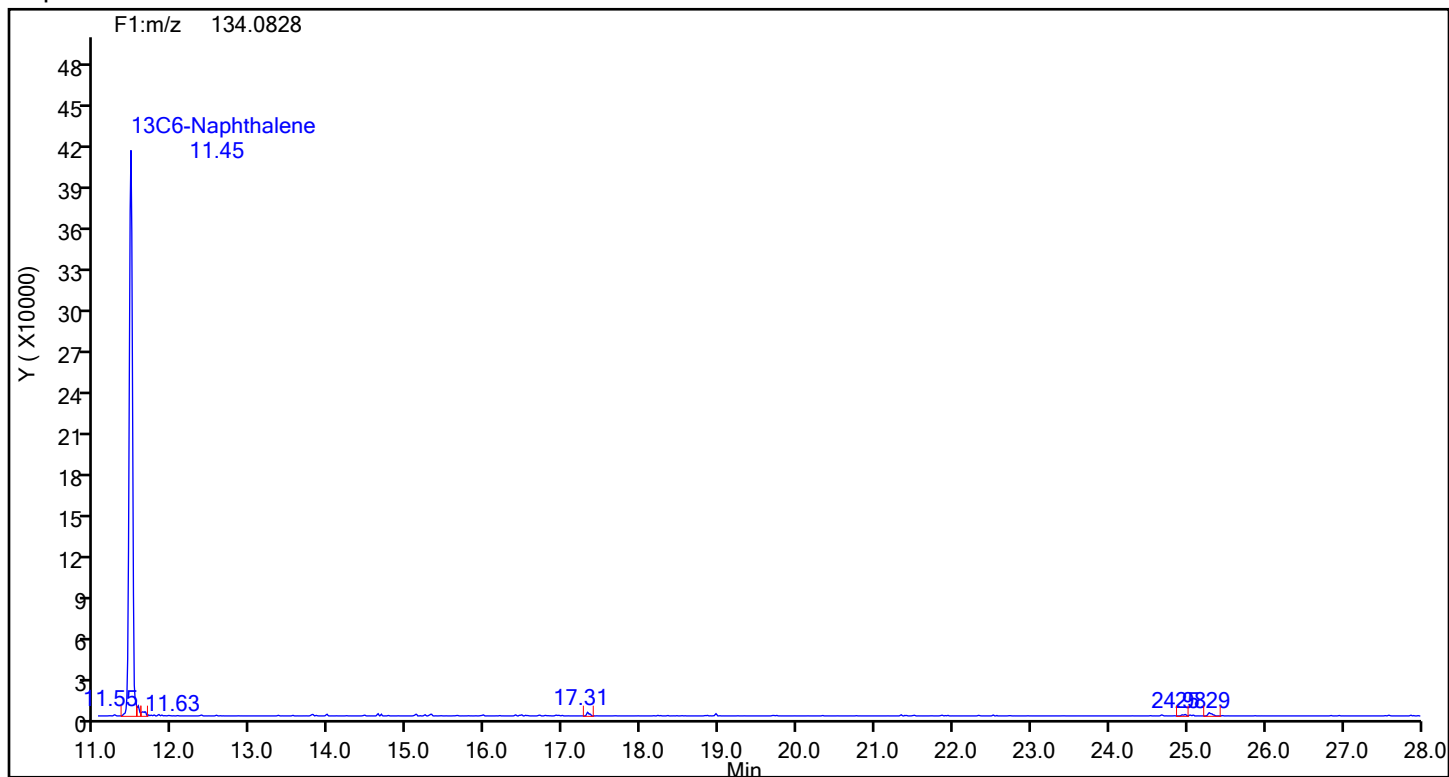
Eurofins Knoxville

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Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

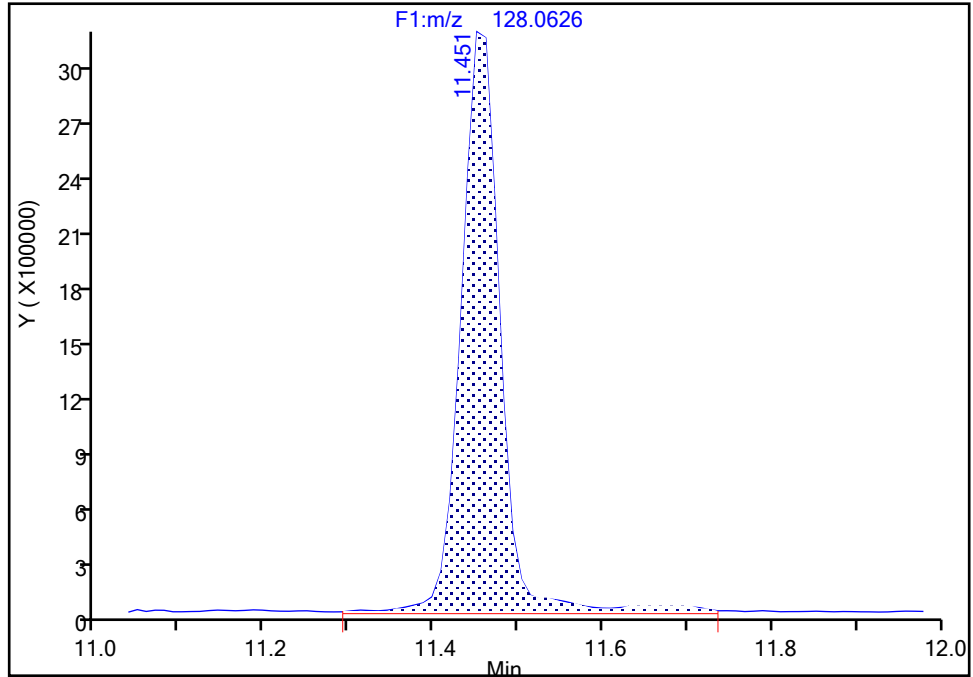
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Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

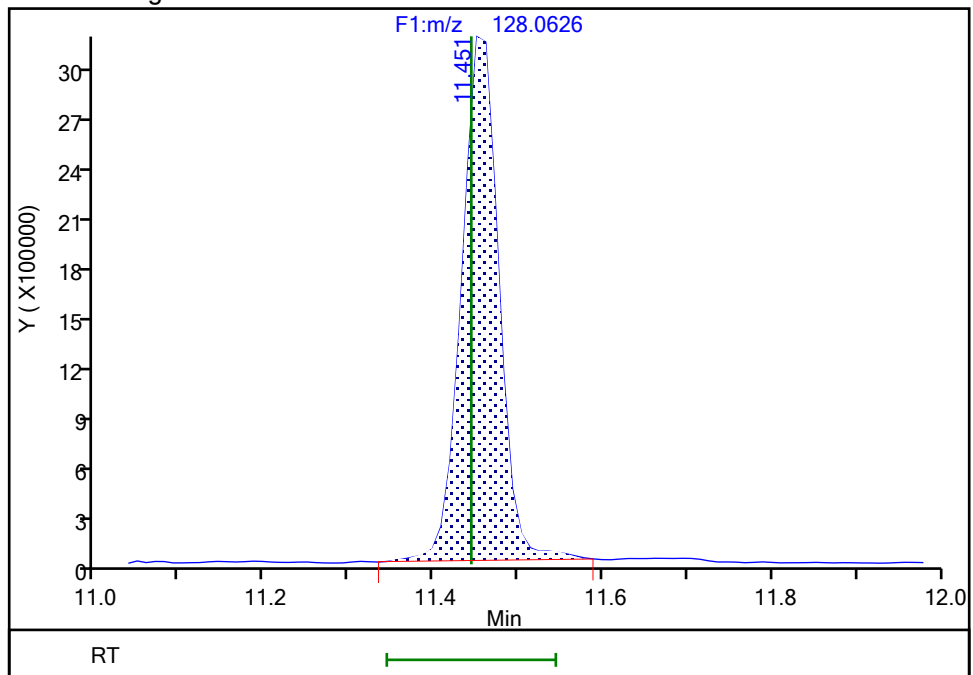
RT: 11.45
Area: 10182693
Amount: 65.075306
Amount Units: pg/ul

Processing Integration Results



RT: 11.45
Area: 9375197
Amount: 59.914780
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:27:13 -04:00:00 (UTC)

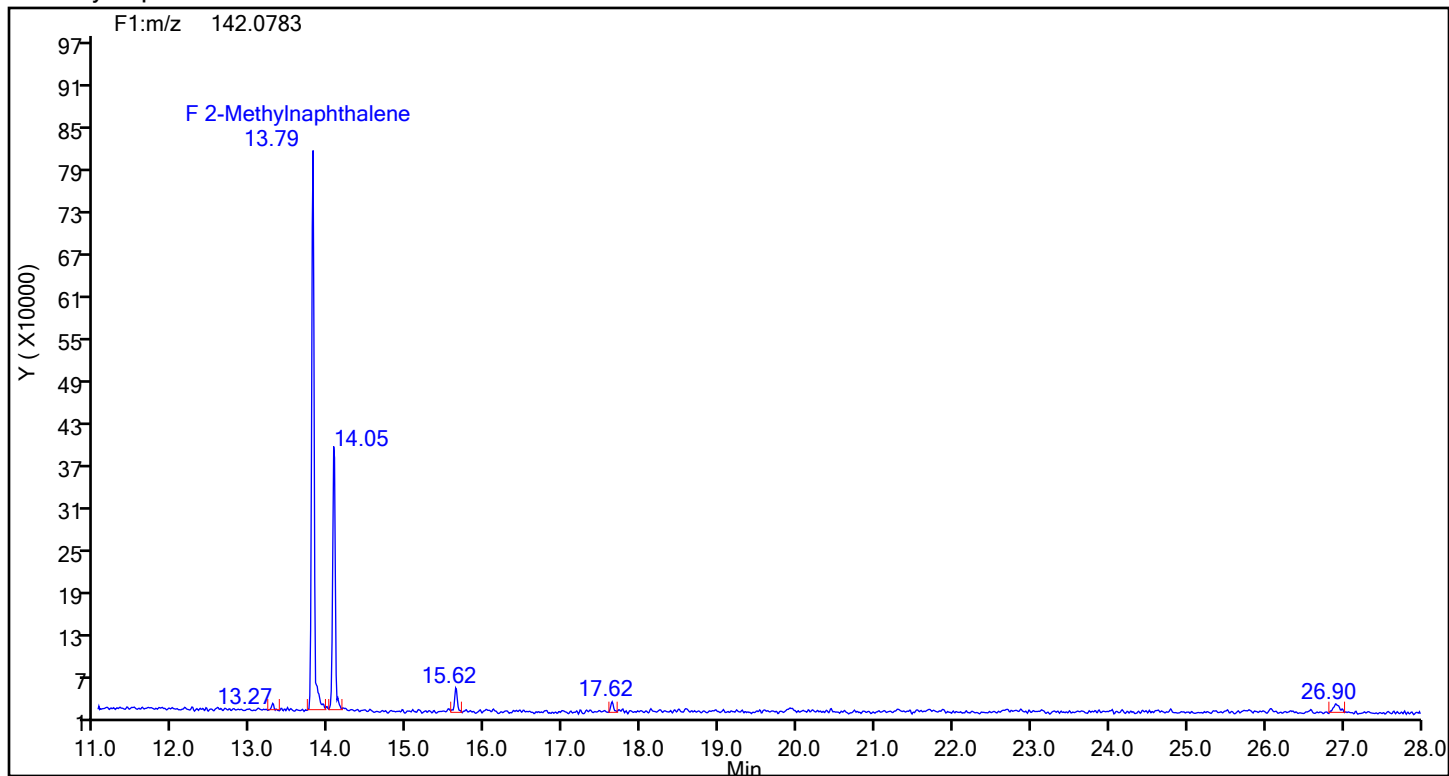
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

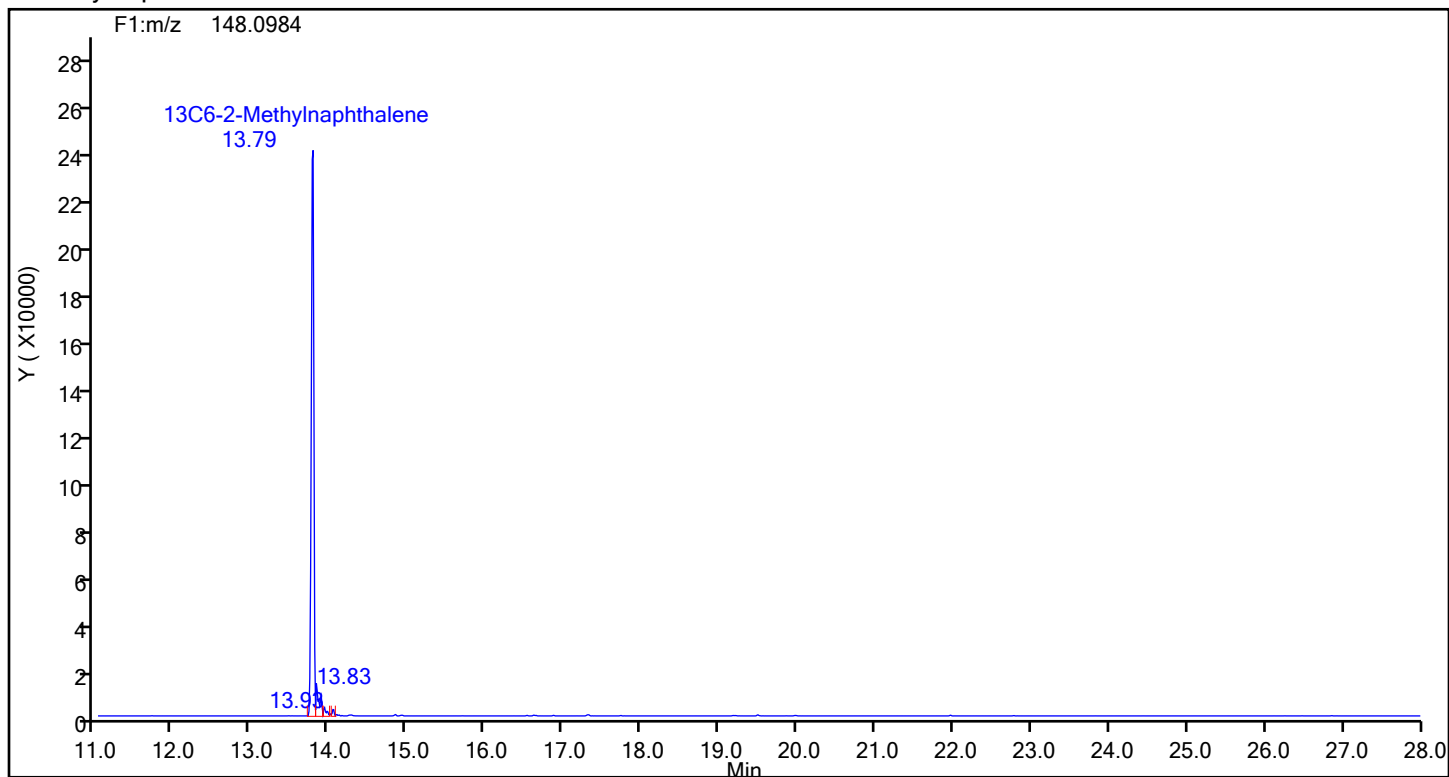
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



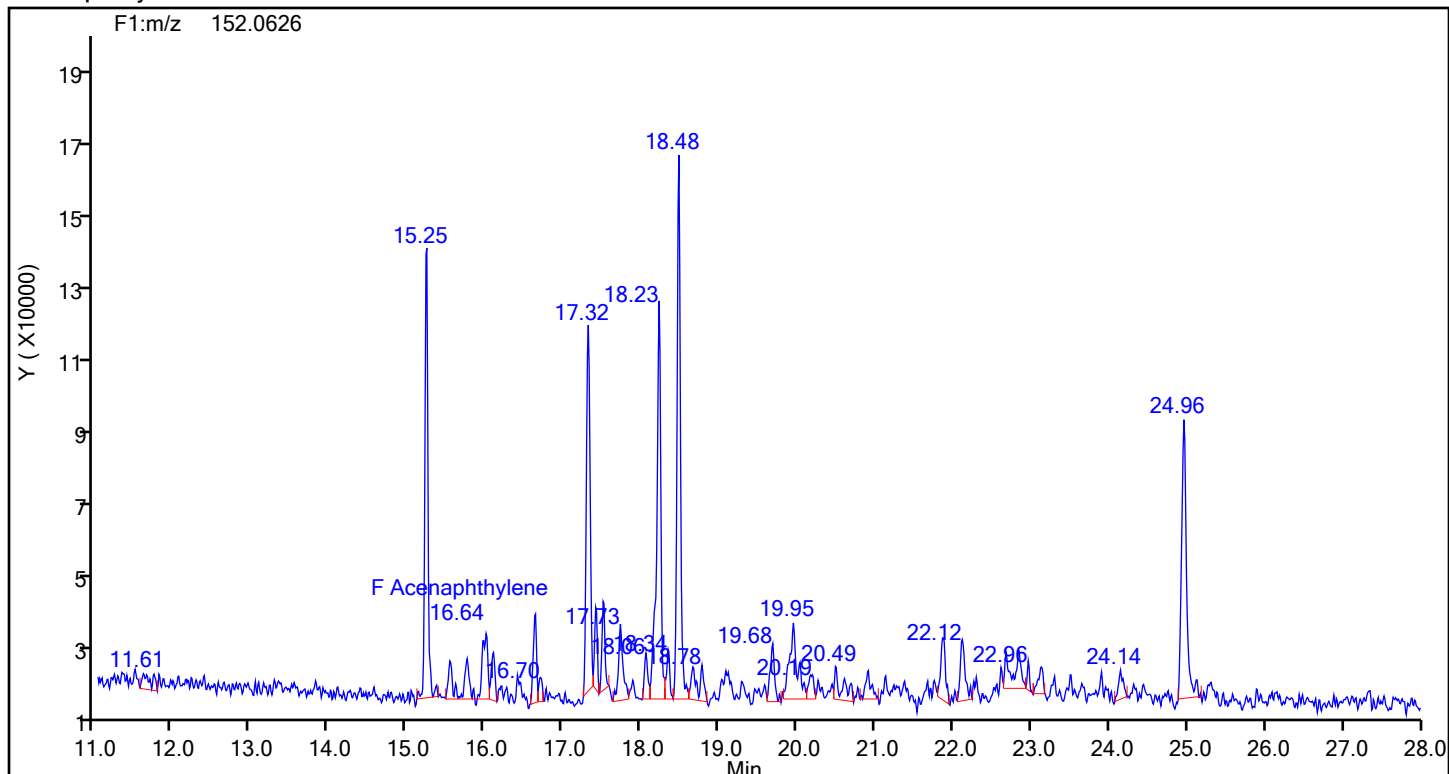
2-Methylnaphthalene Standards



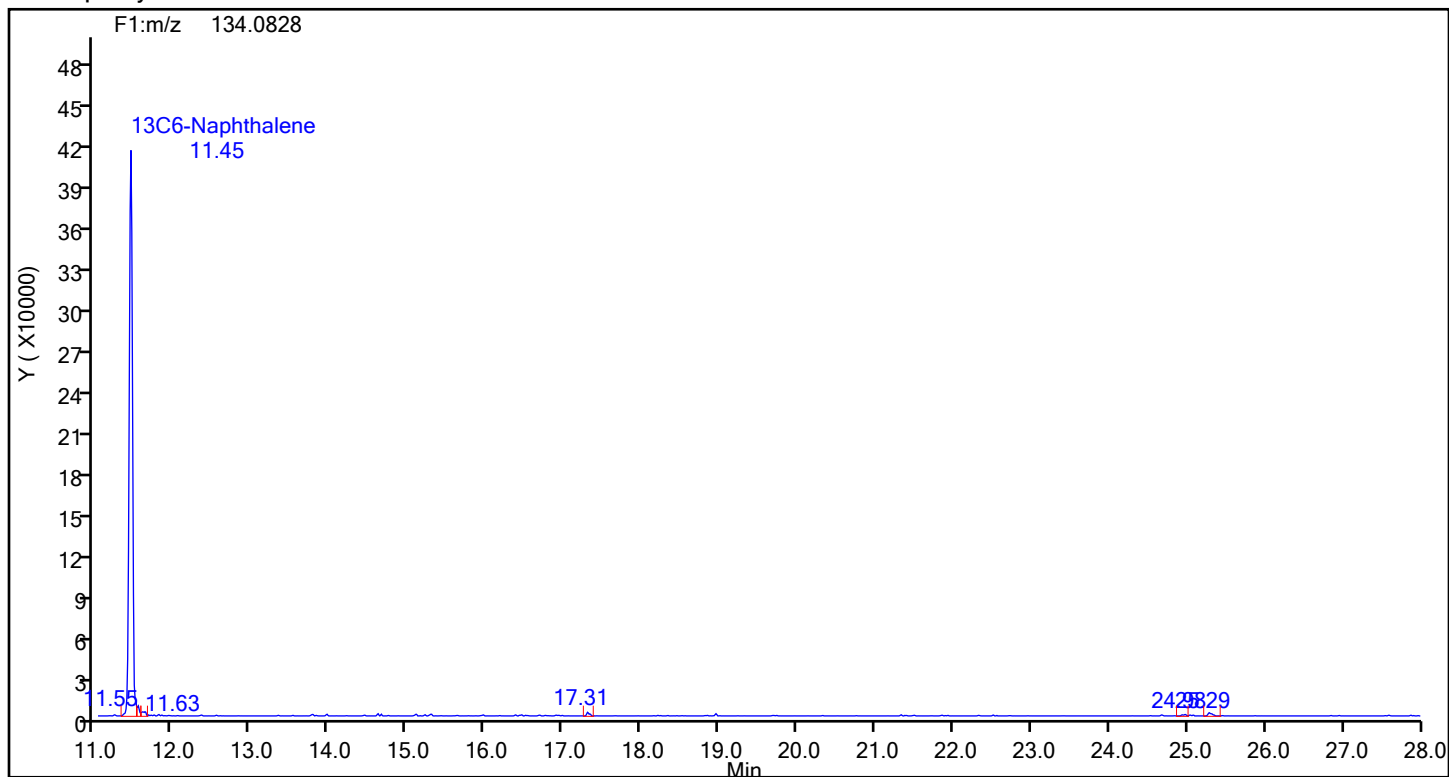
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

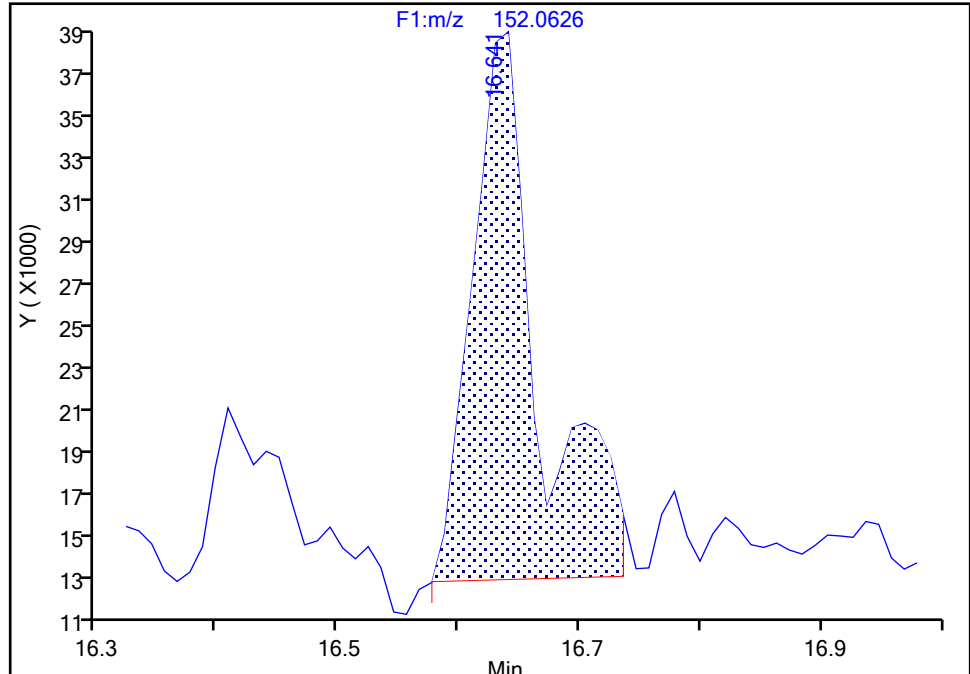
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Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

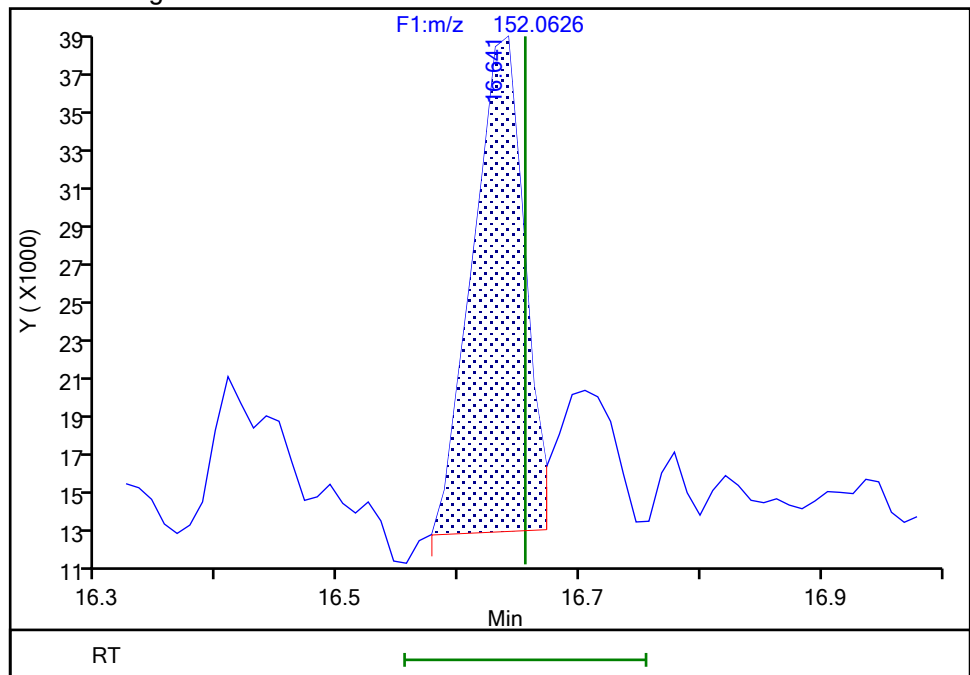
RT: 16.64
Area: 94584
Amount: 0.822911
Amount Units: pg/ul

Processing Integration Results



RT: 16.64
Area: 74354
Amount: 0.646904
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:28:00 -04:00:00 (UTC)

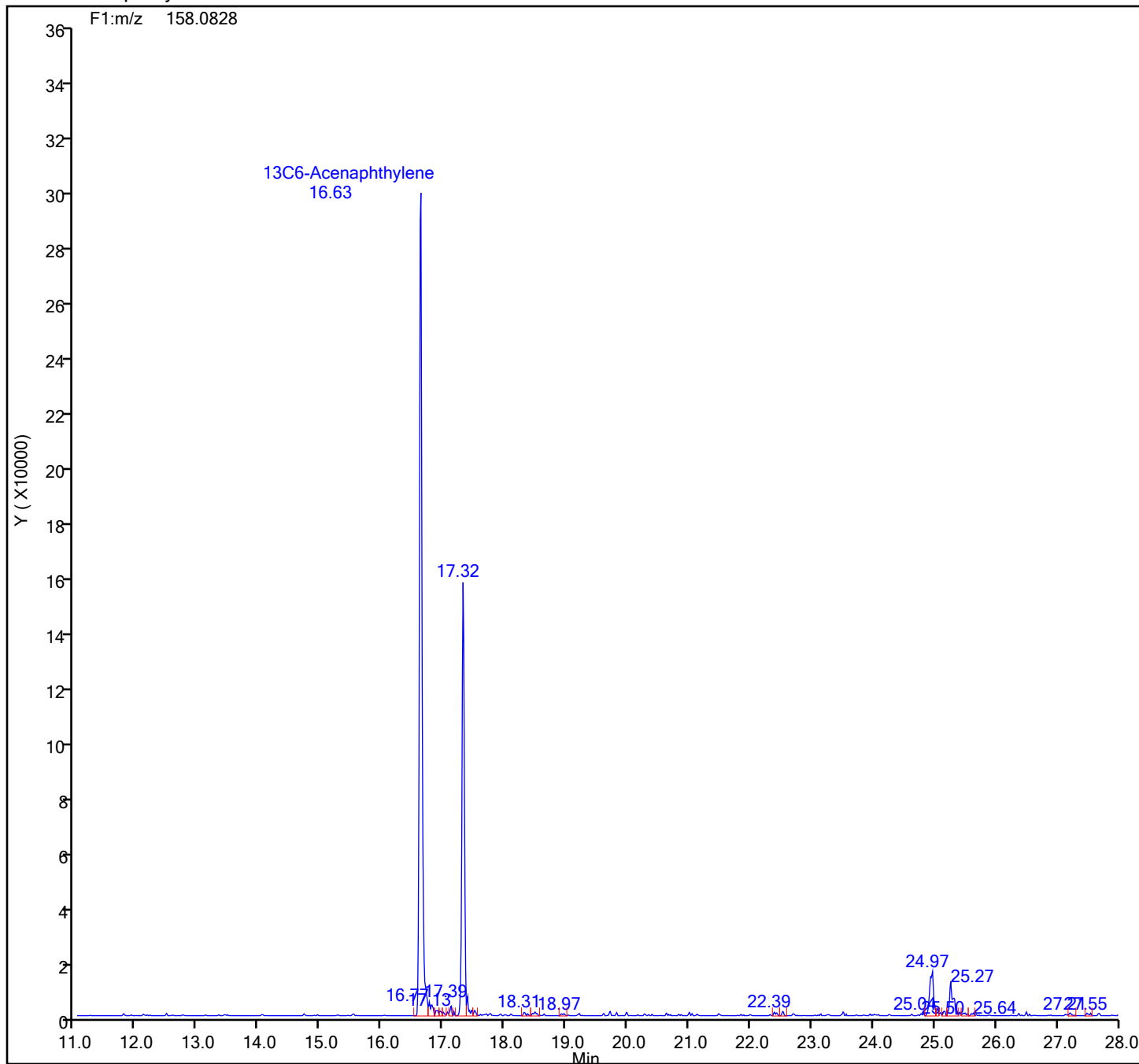
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

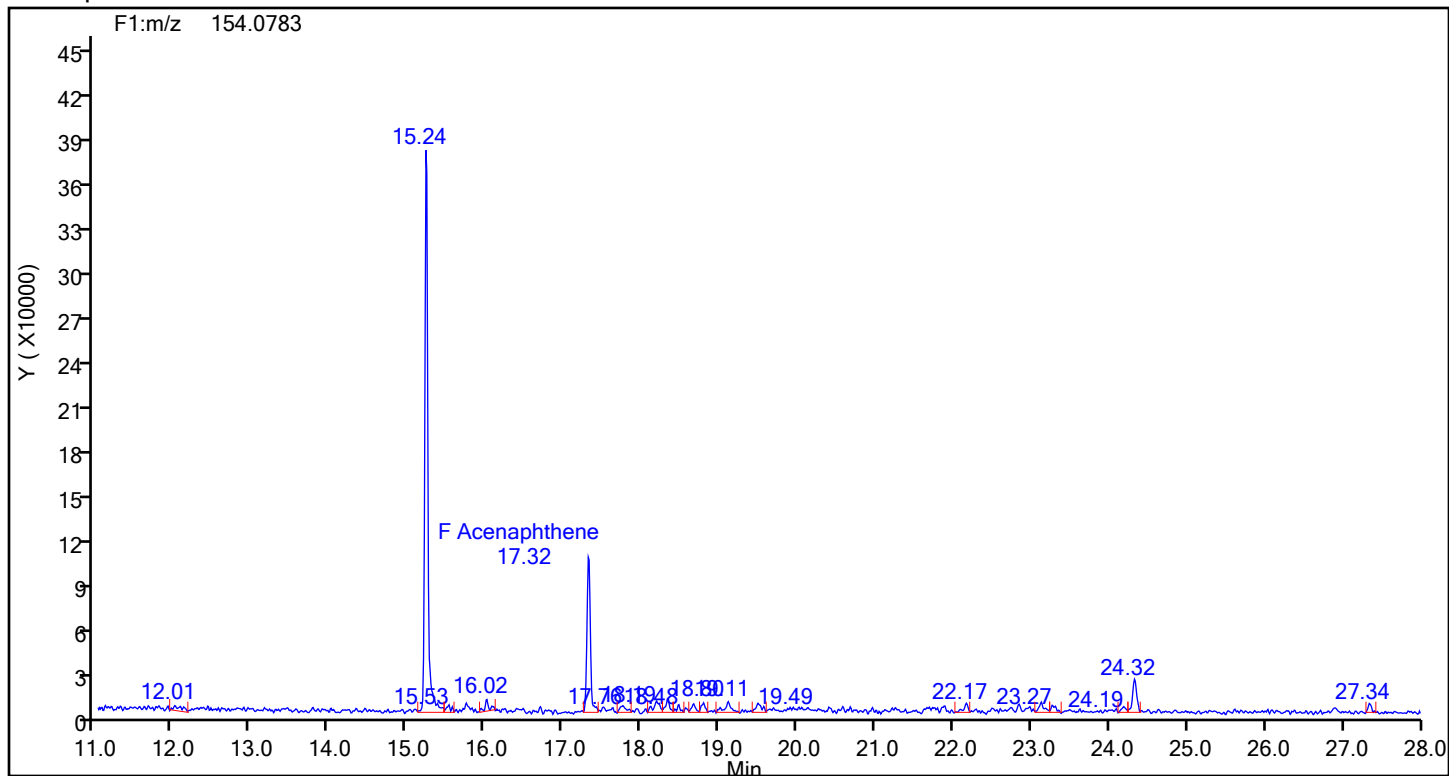
13C6-Acenaphthylene Standards



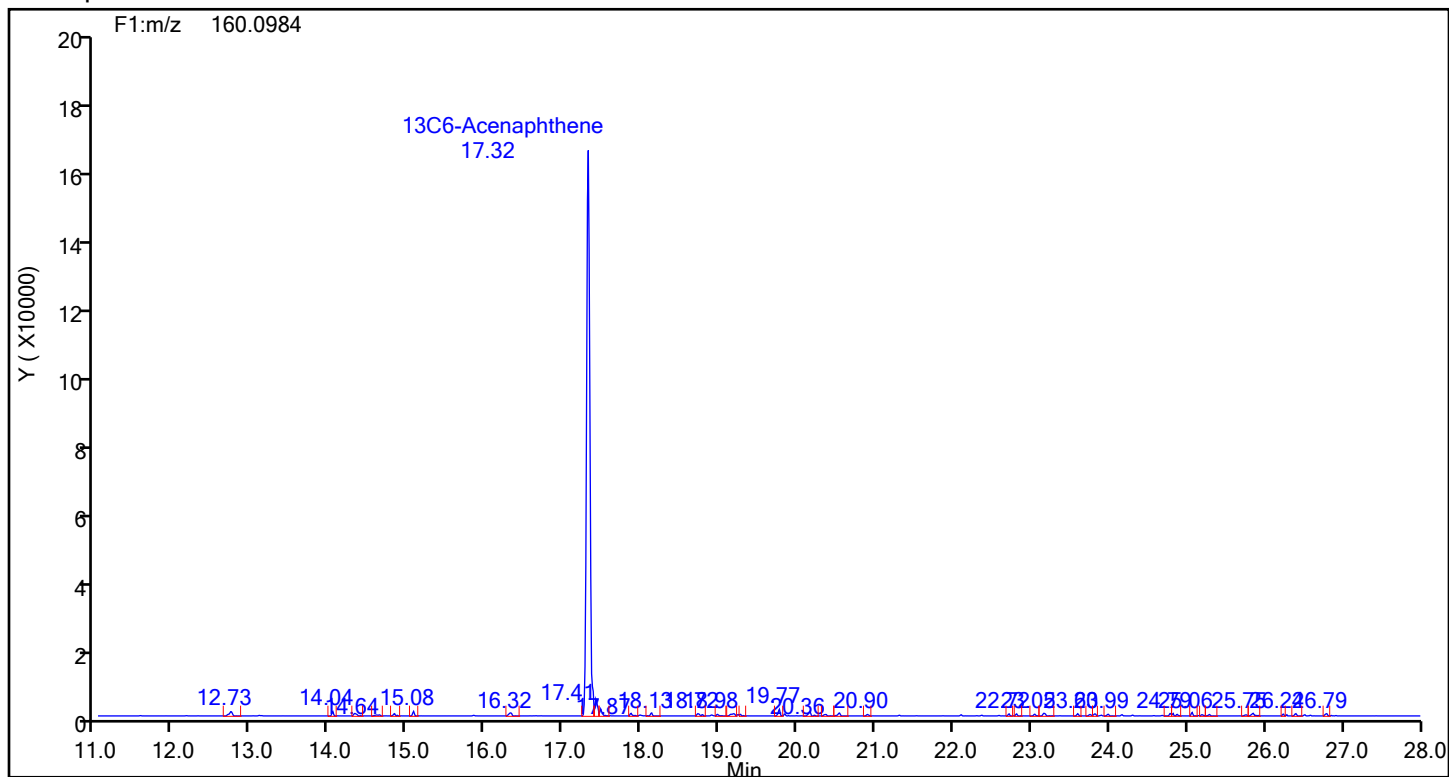
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



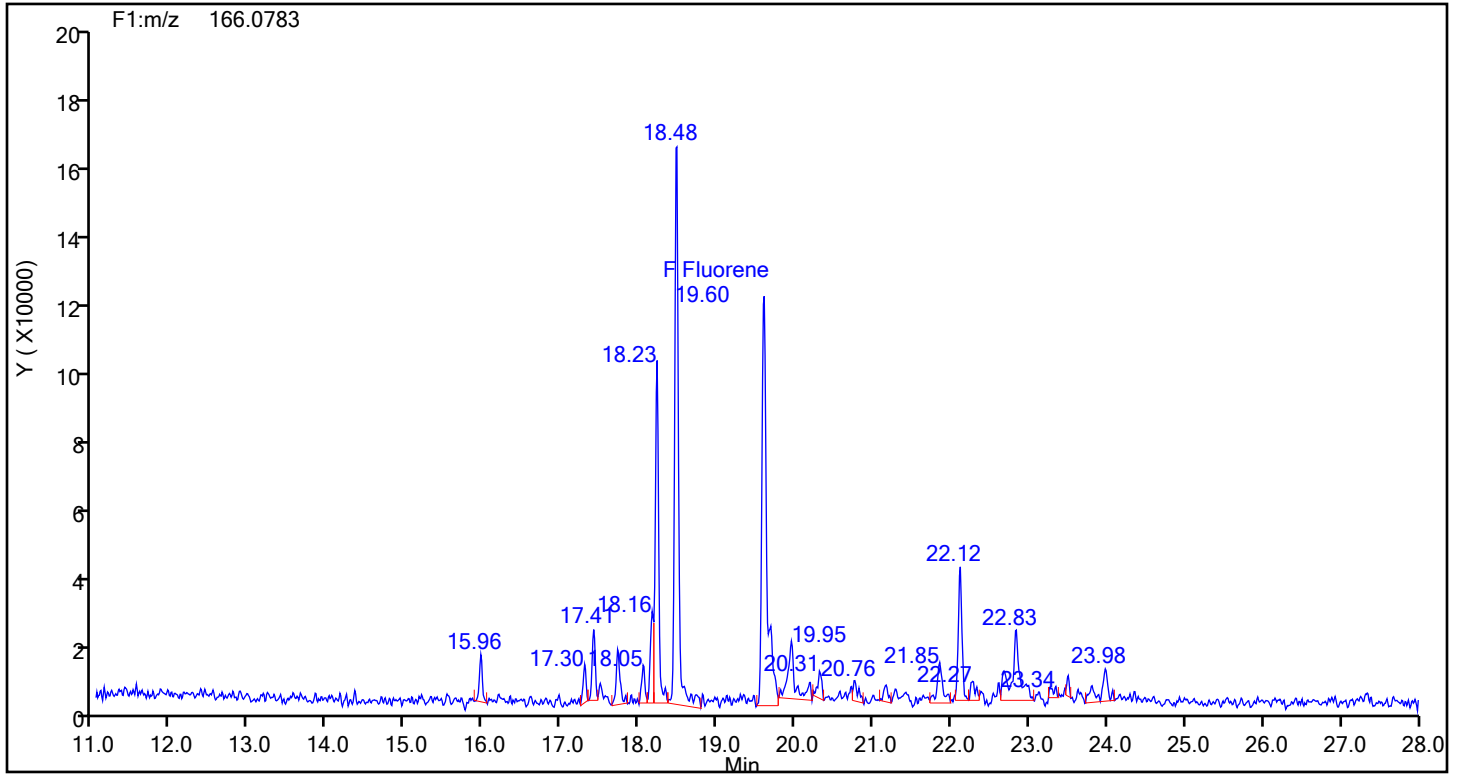
Acenaphthene Standards



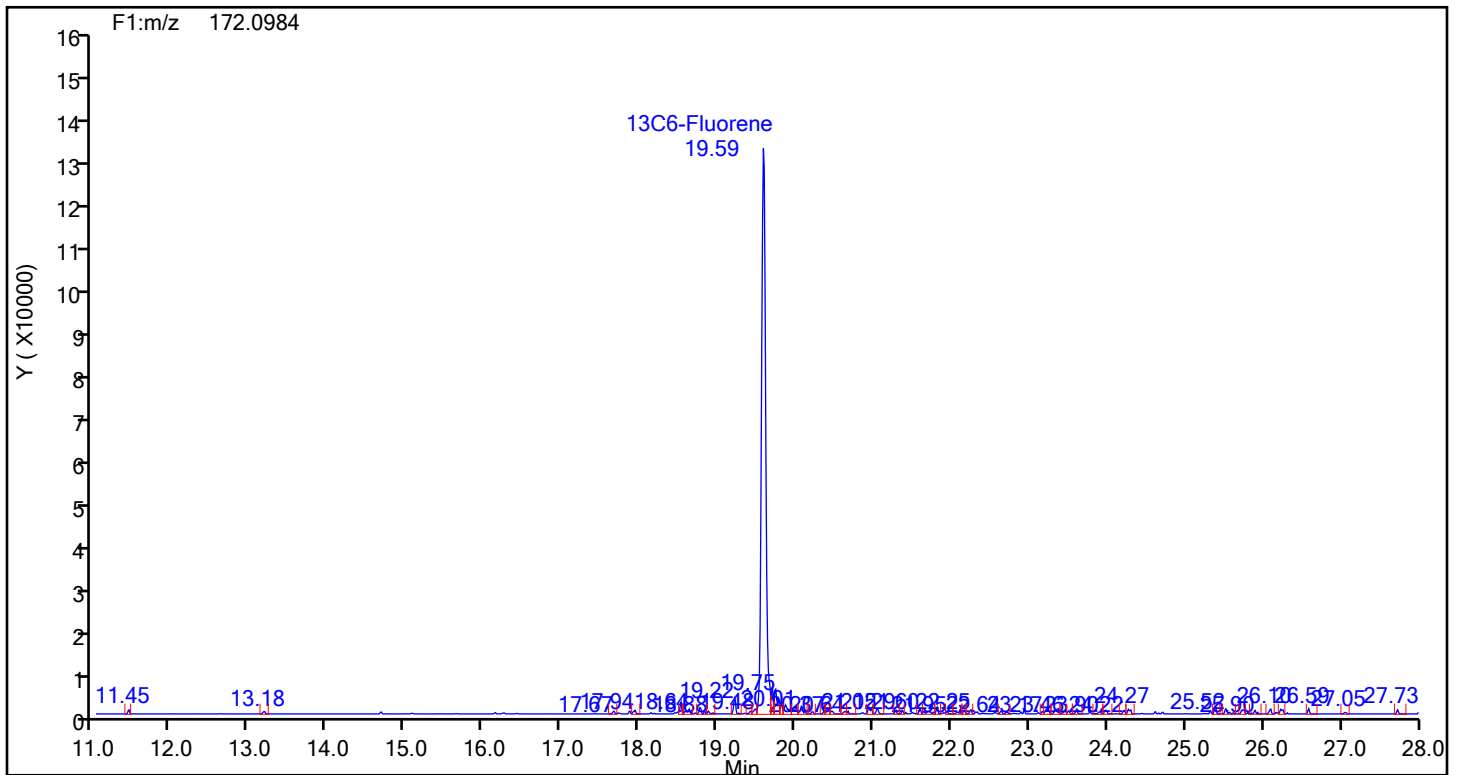
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



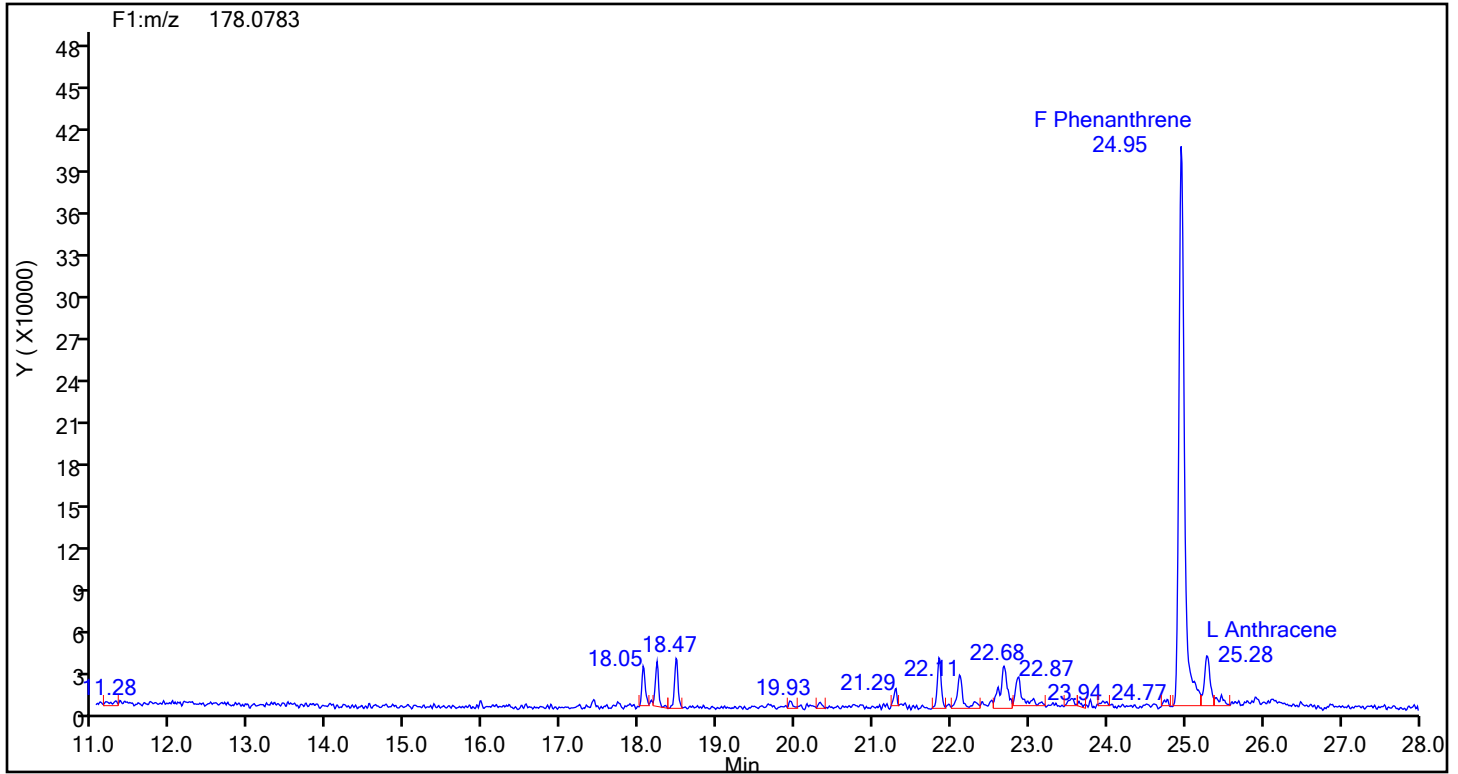
Fluorene Standards



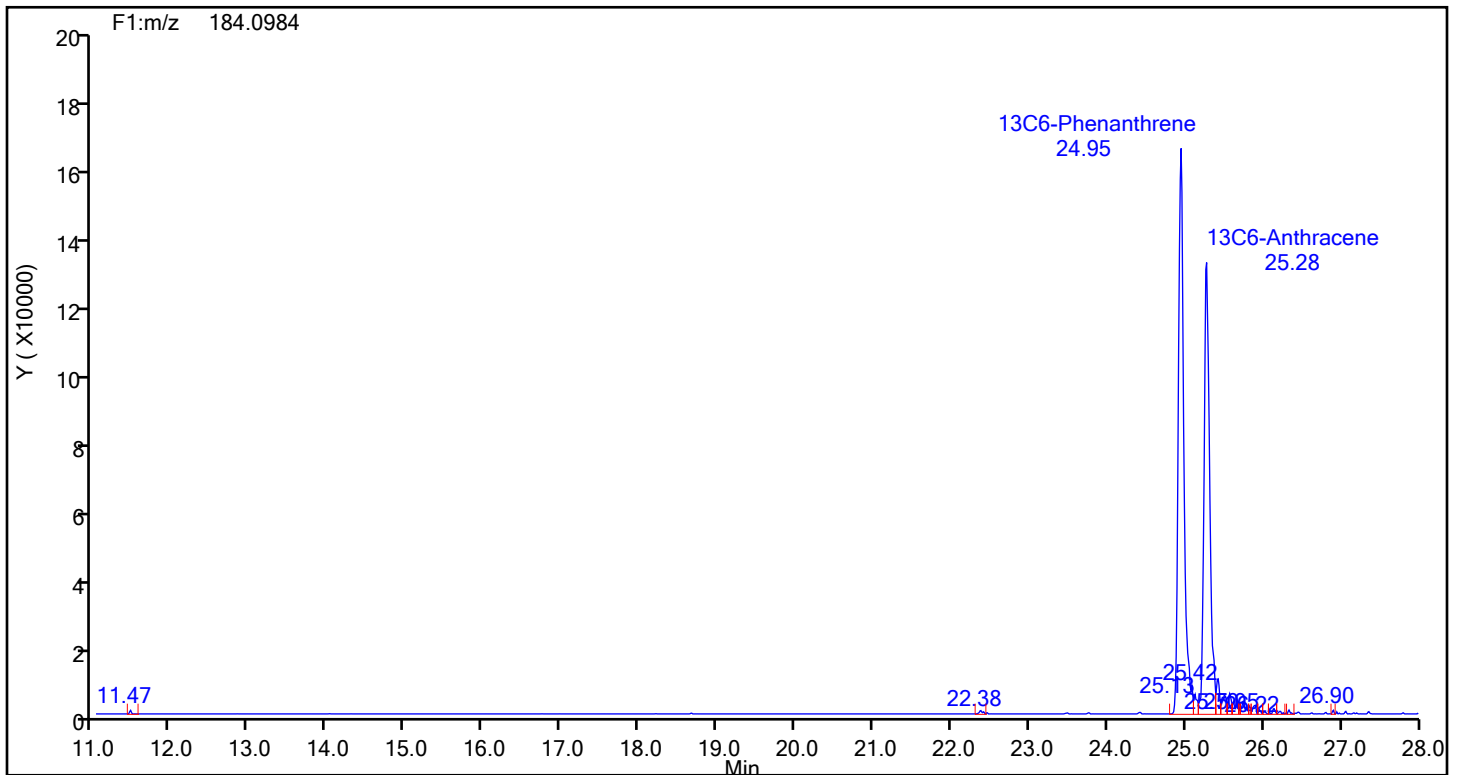
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

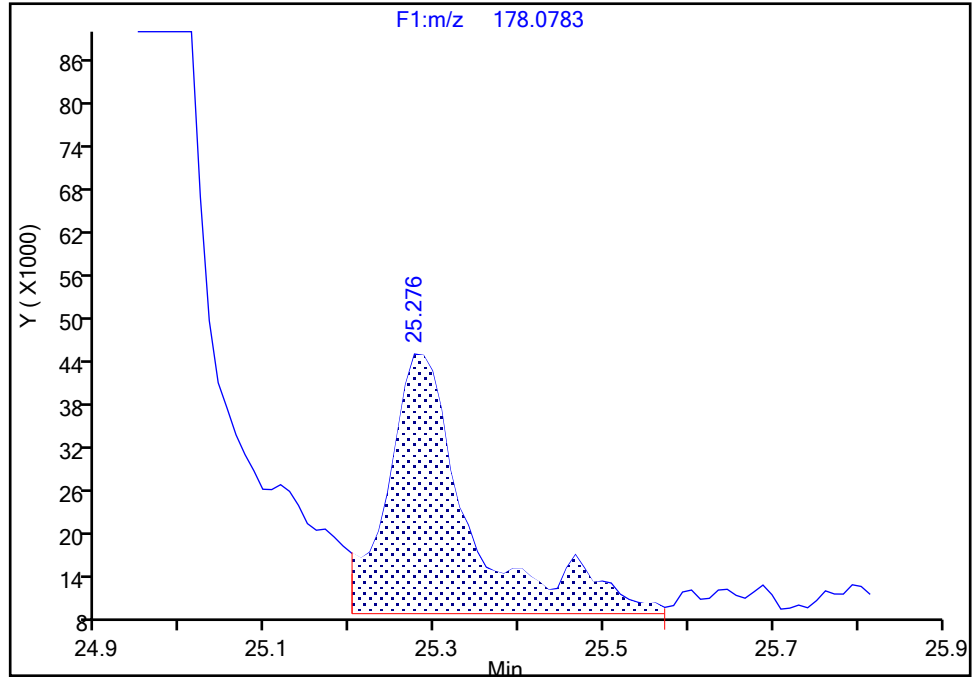
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Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Anthracene, CAS: 120-12-7

Signal: 1

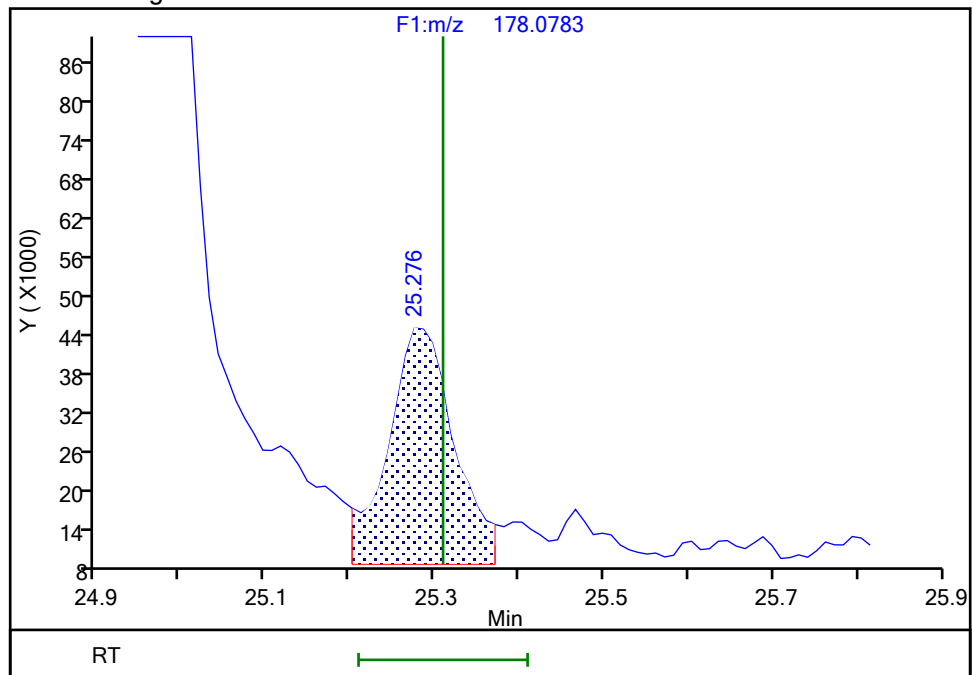
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Amount: 2.701750
Amount Units: pg/ul

Processing Integration Results



RT: 25.28
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Amount: 2.176824
Amount Units: pg/ul

Manual Integration Results



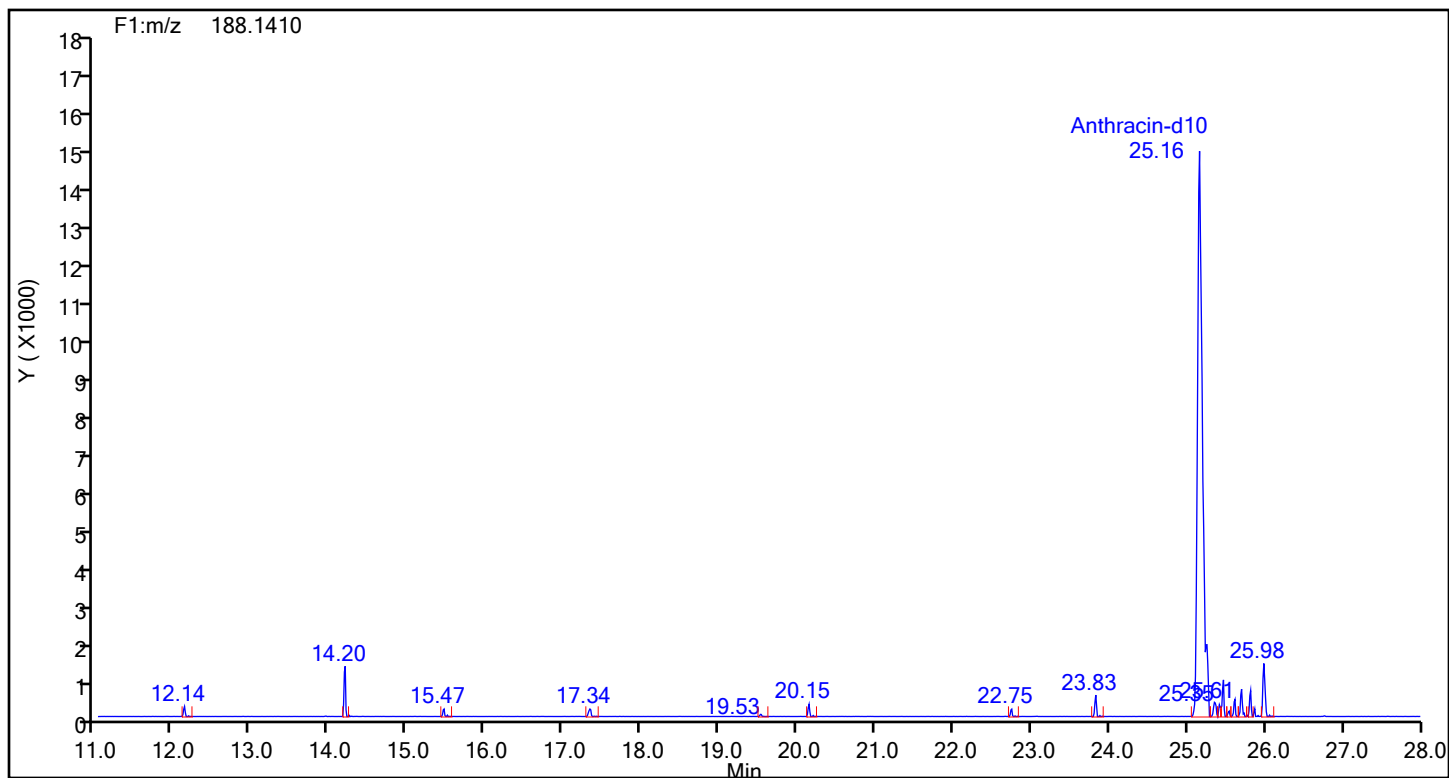
Reviewer: TT6I, 20-Jul-2024 09:26:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

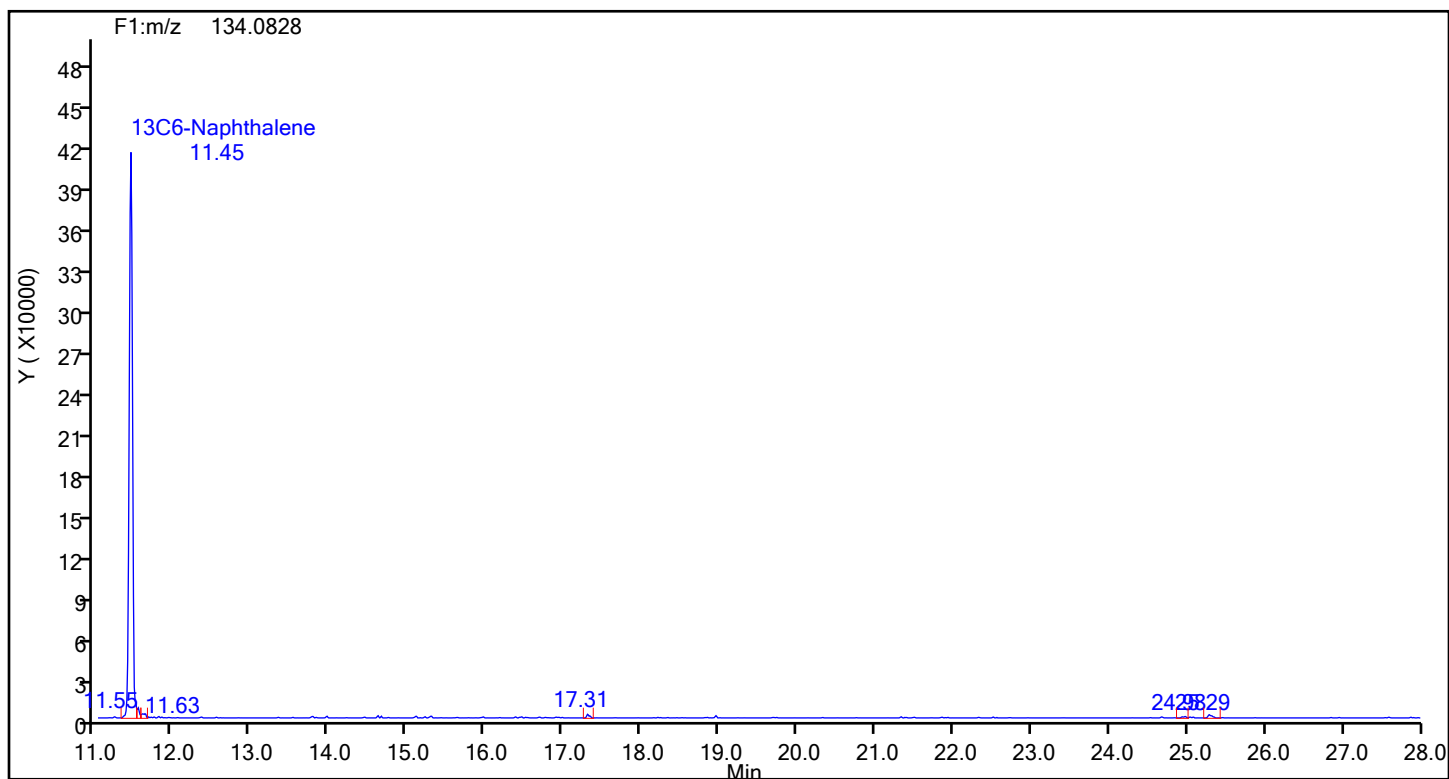
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



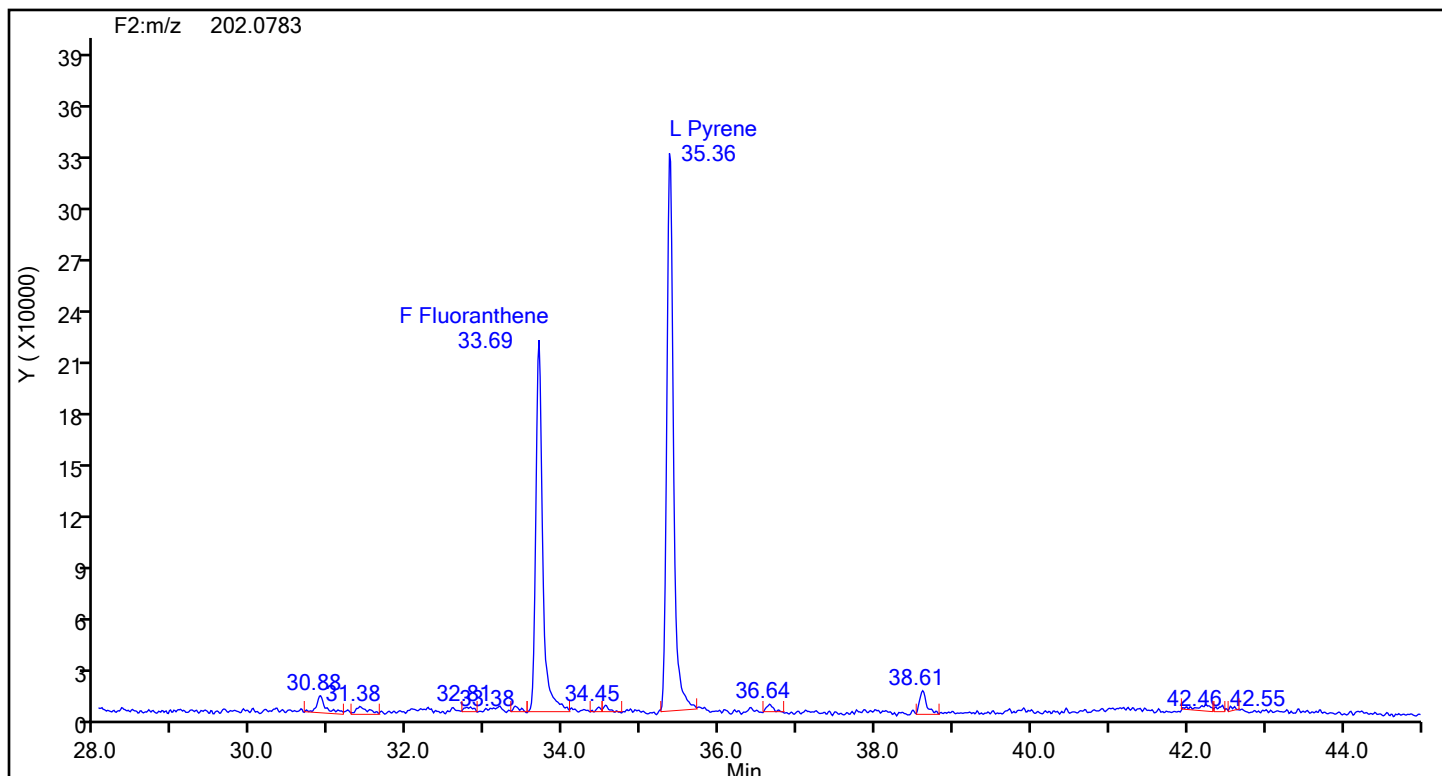
Anthracin-d10 Standards



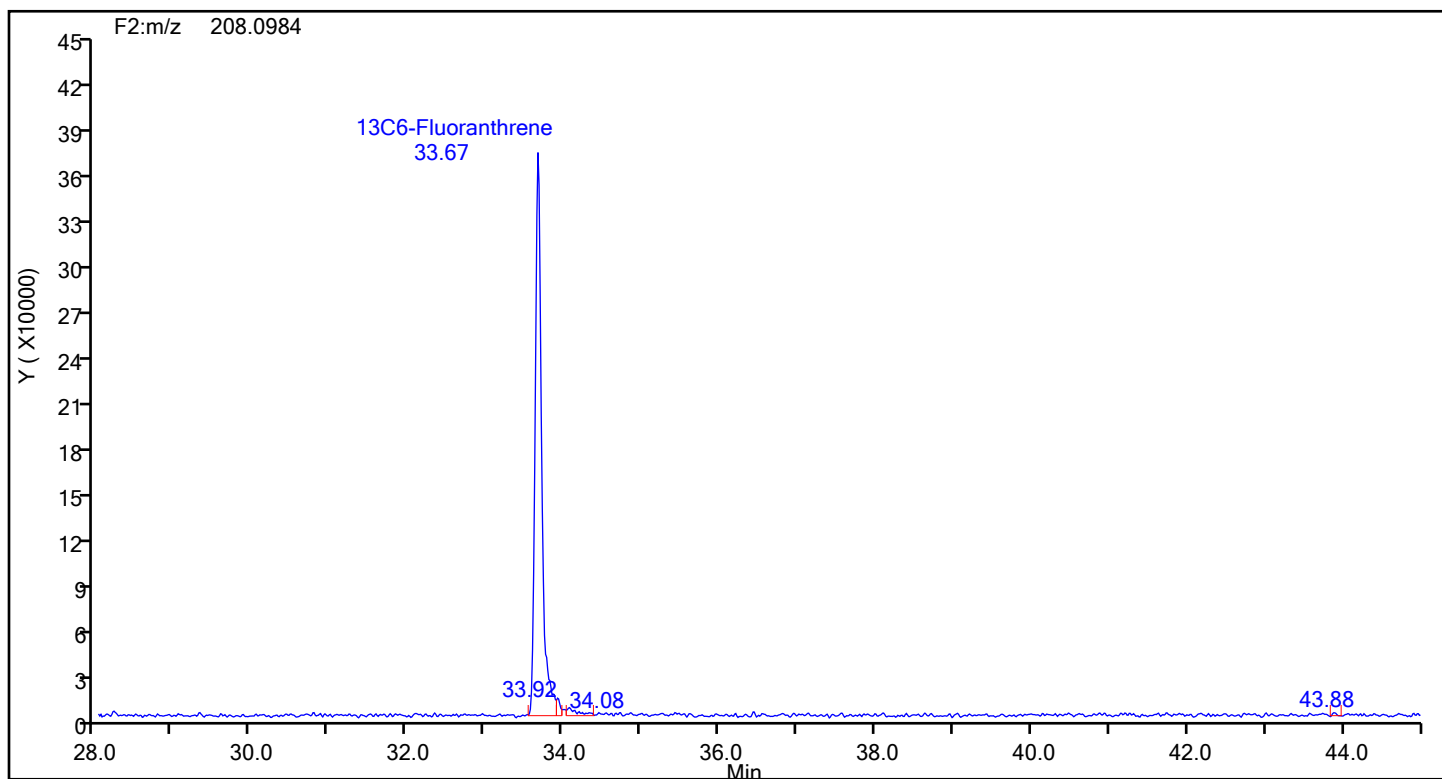
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



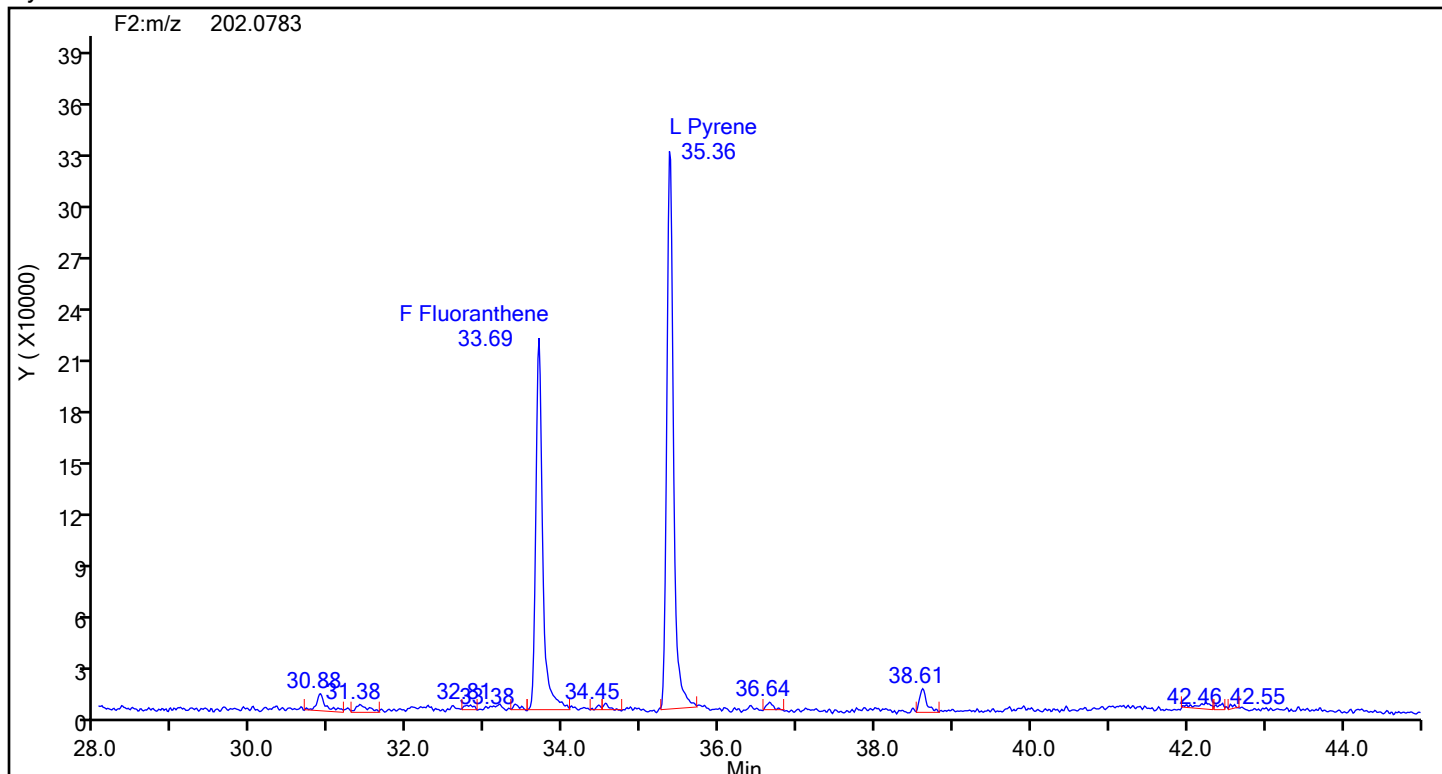
Fluoranthene Standards



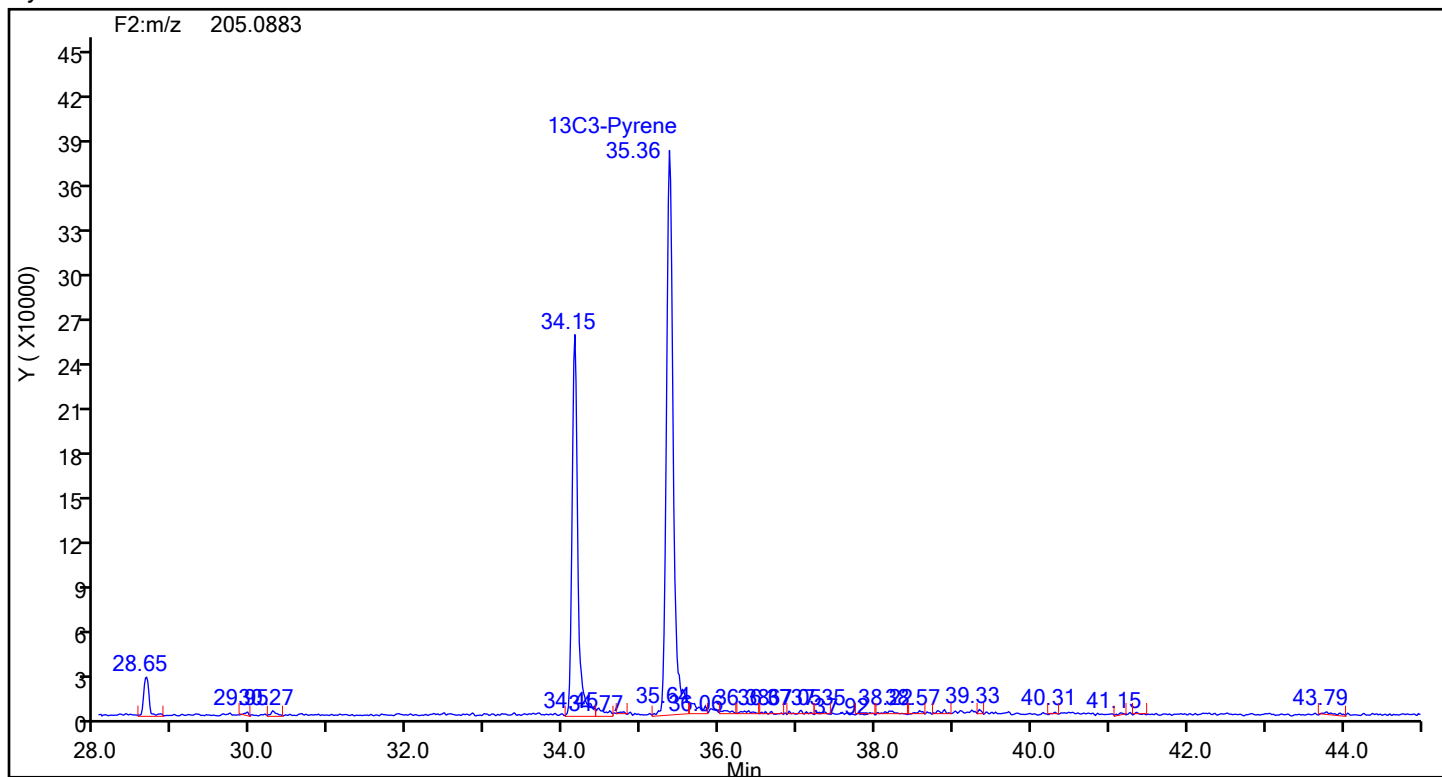
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



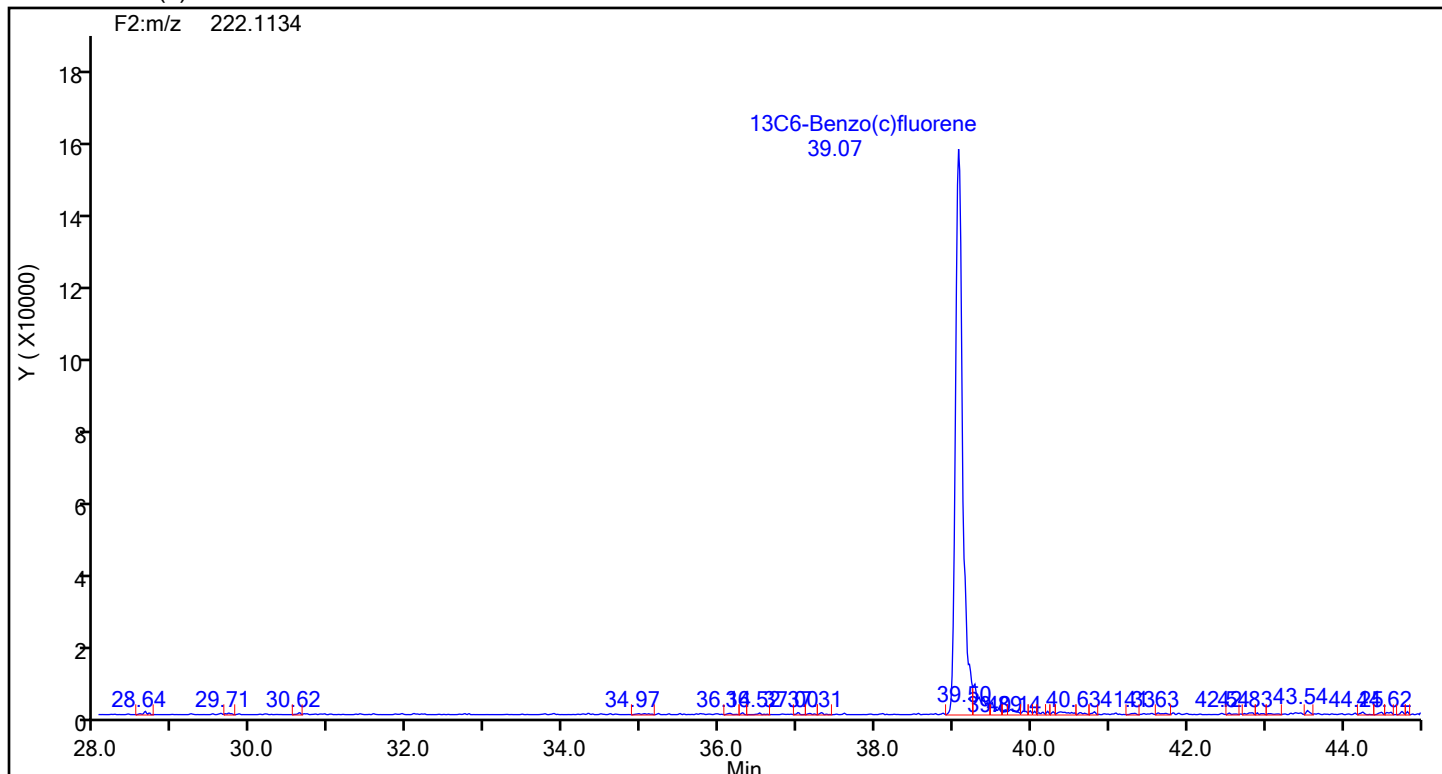
Pyrene Standards



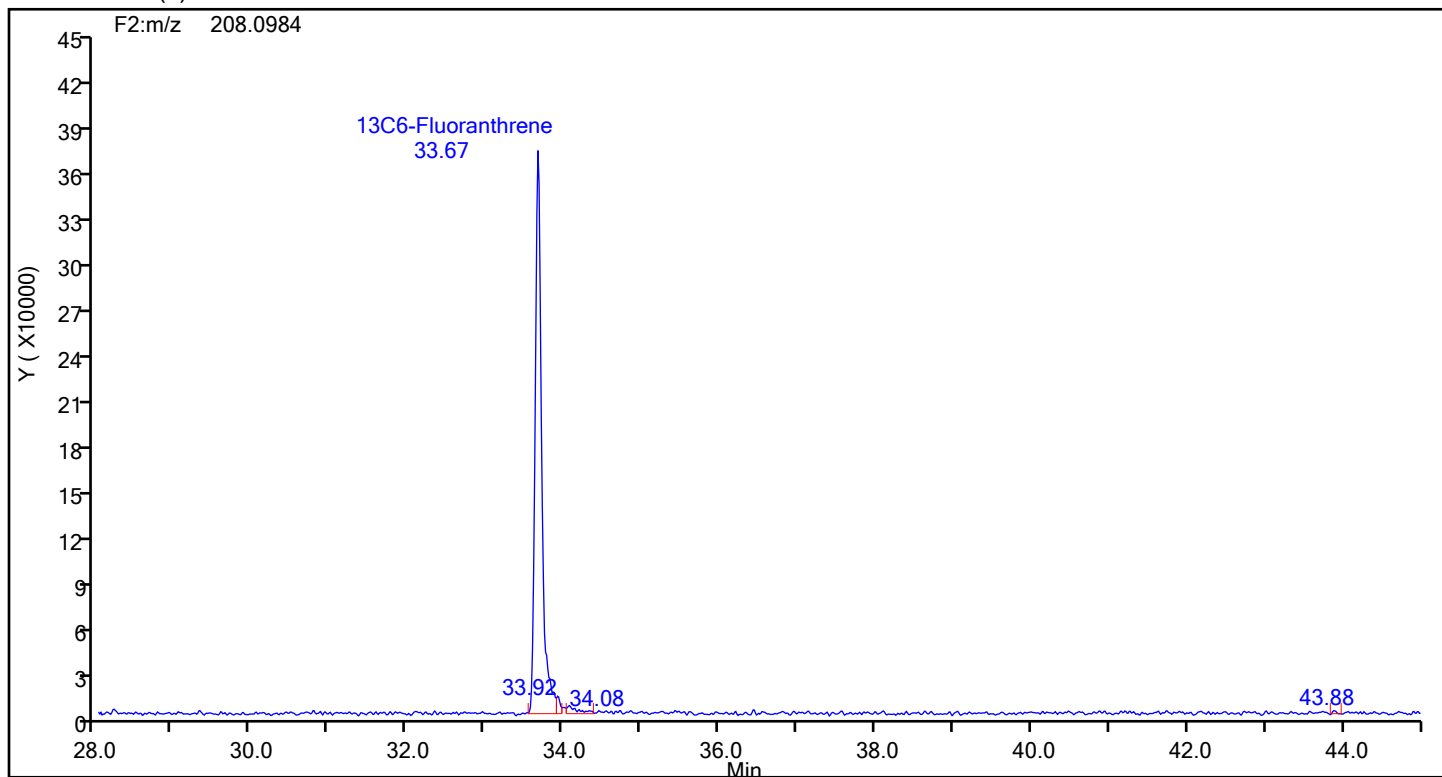
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



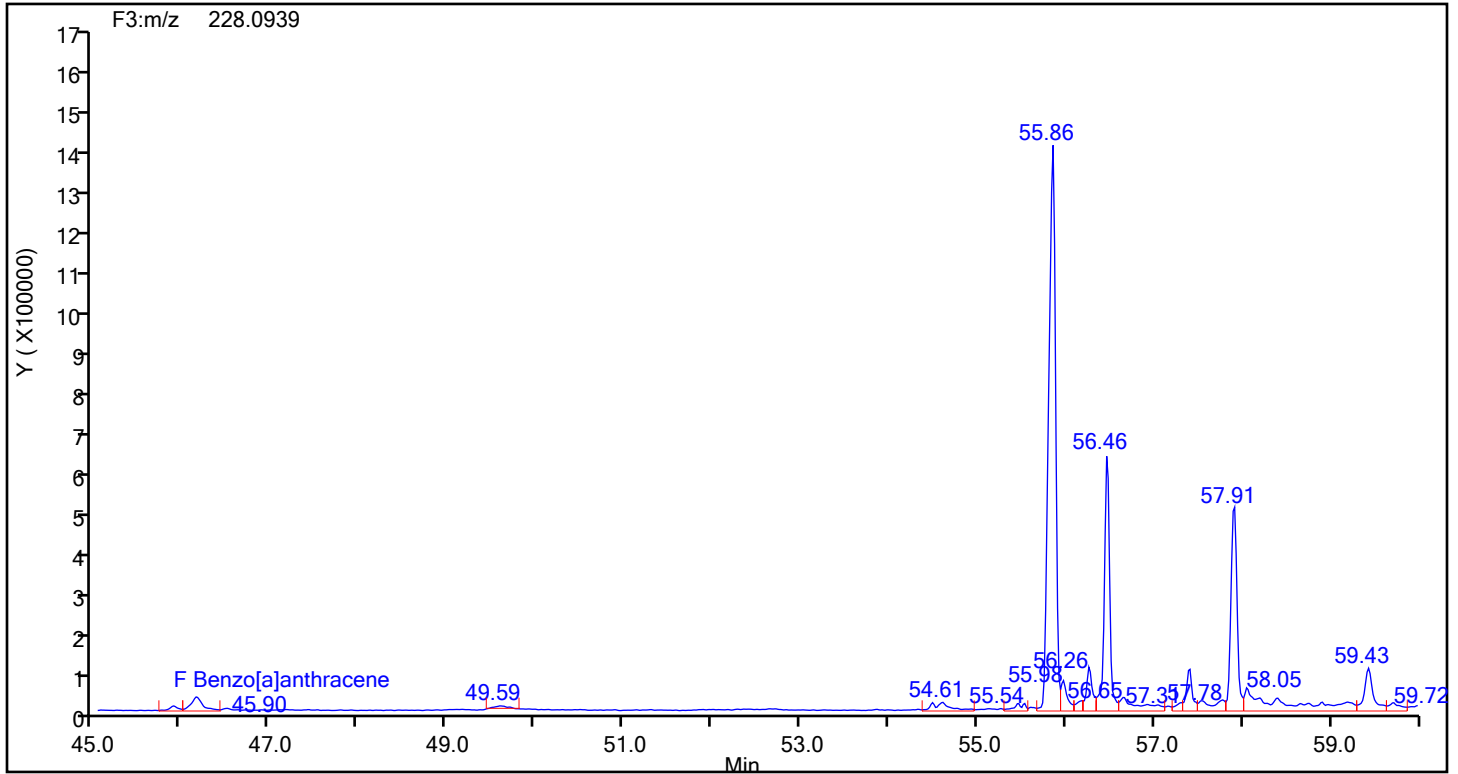
13C6-Benzo(c)fluorene Standards



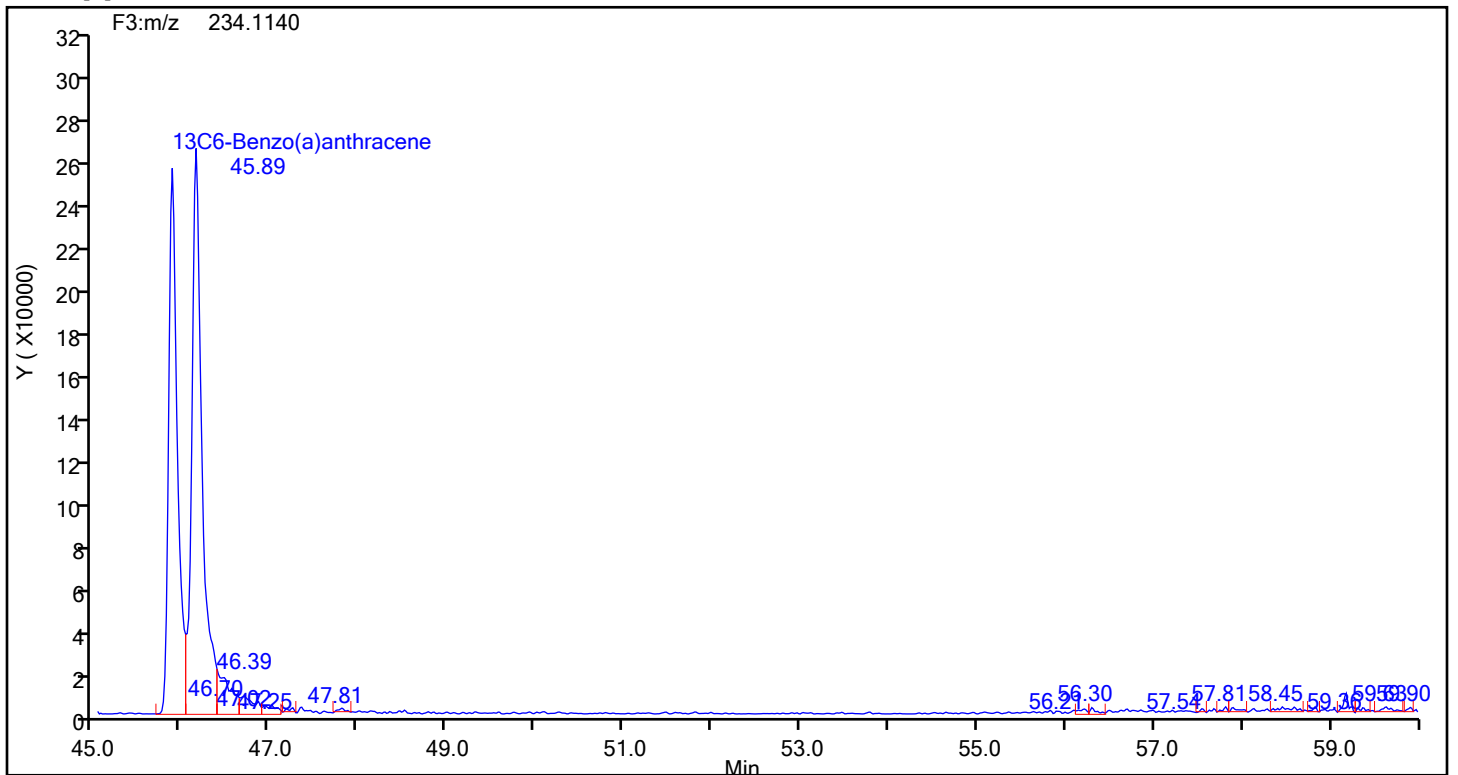
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

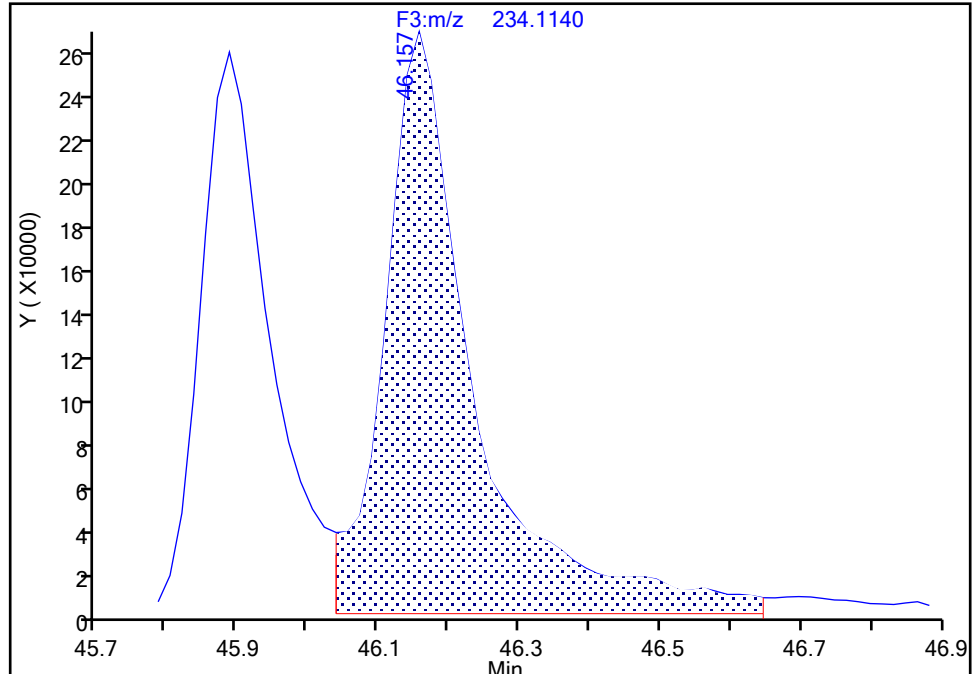
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Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Chrysene, CAS: 1397177-72-8

Signal: 1

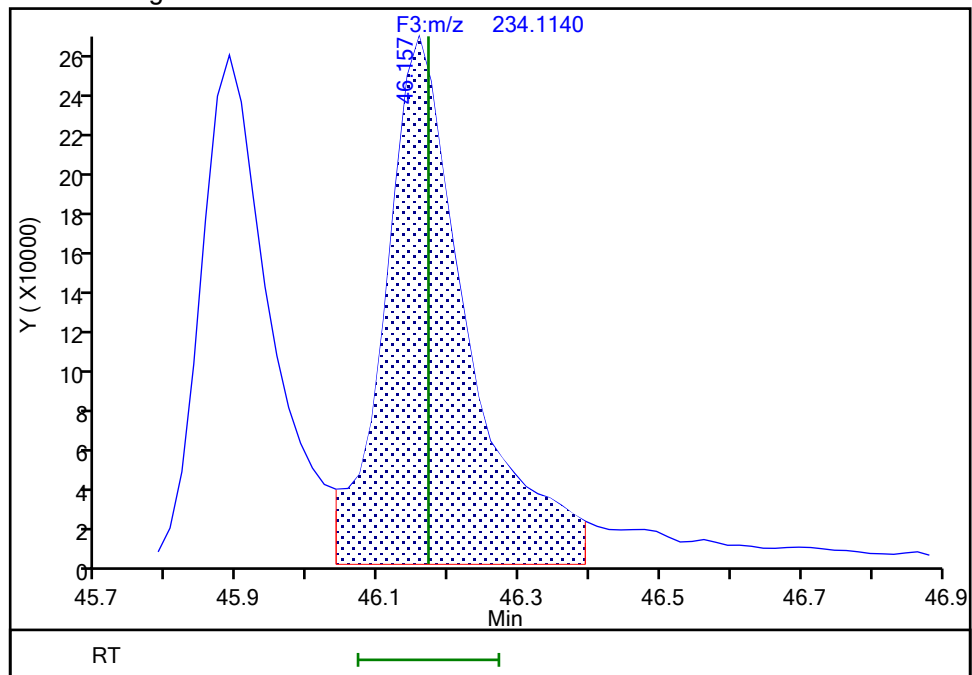
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Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:26:39 -04:00:00 (UTC)

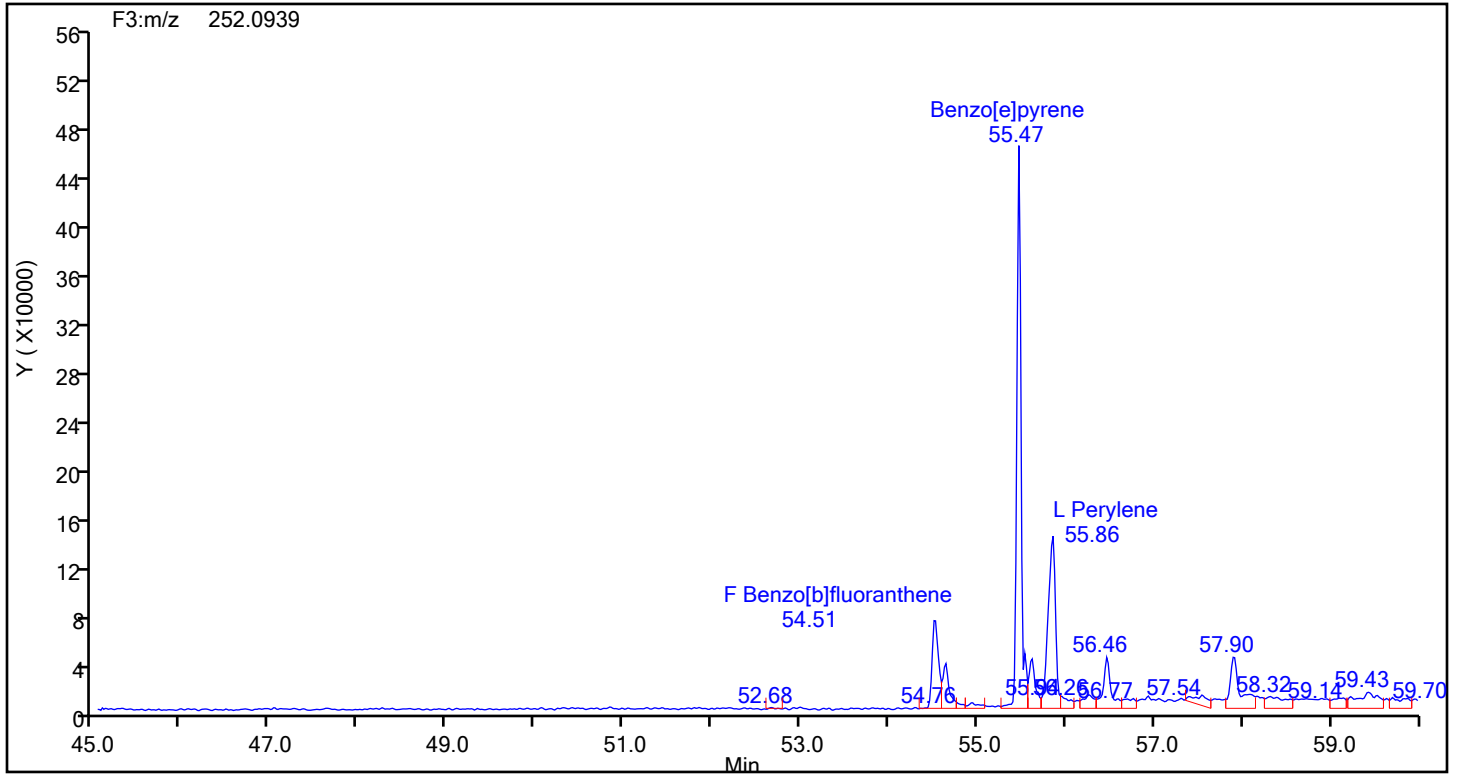
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

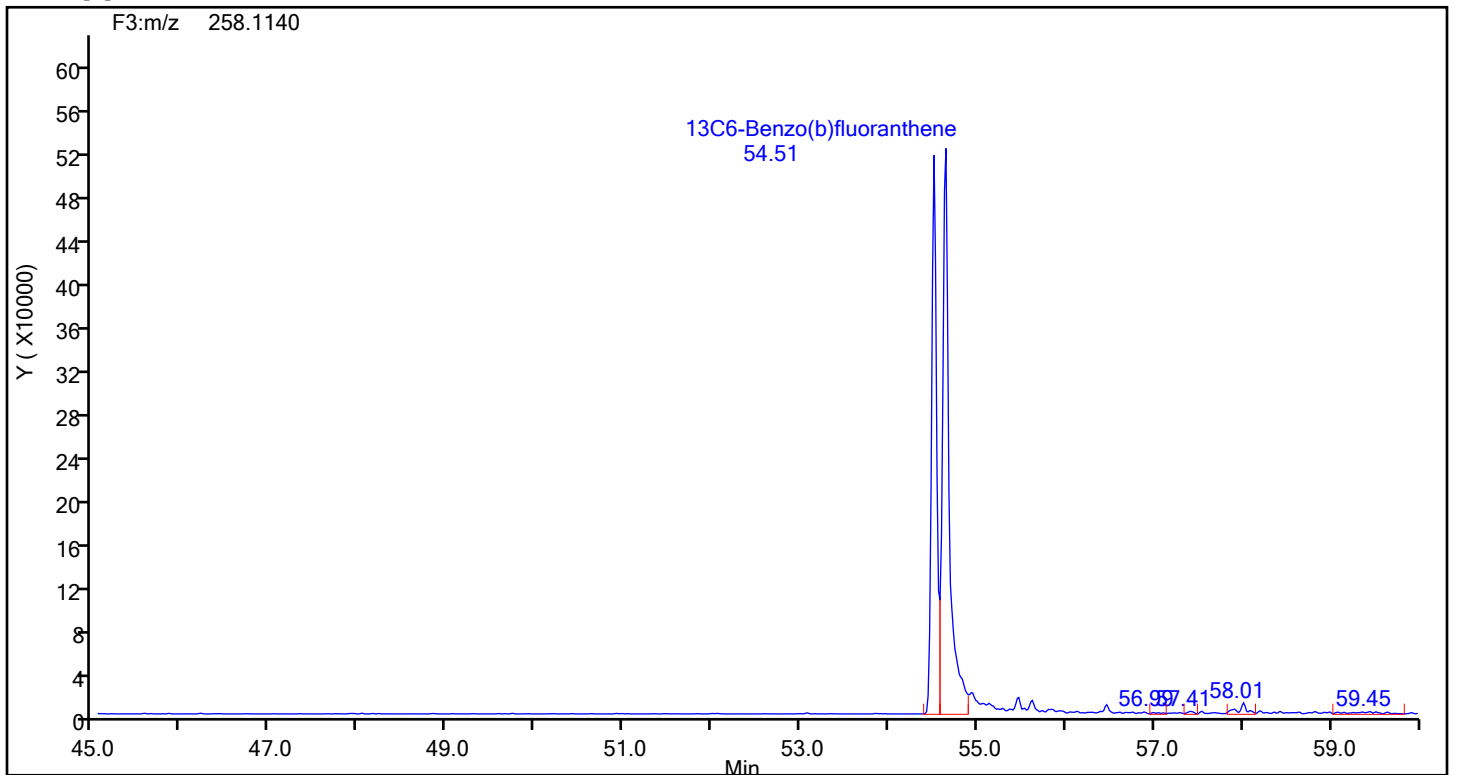
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

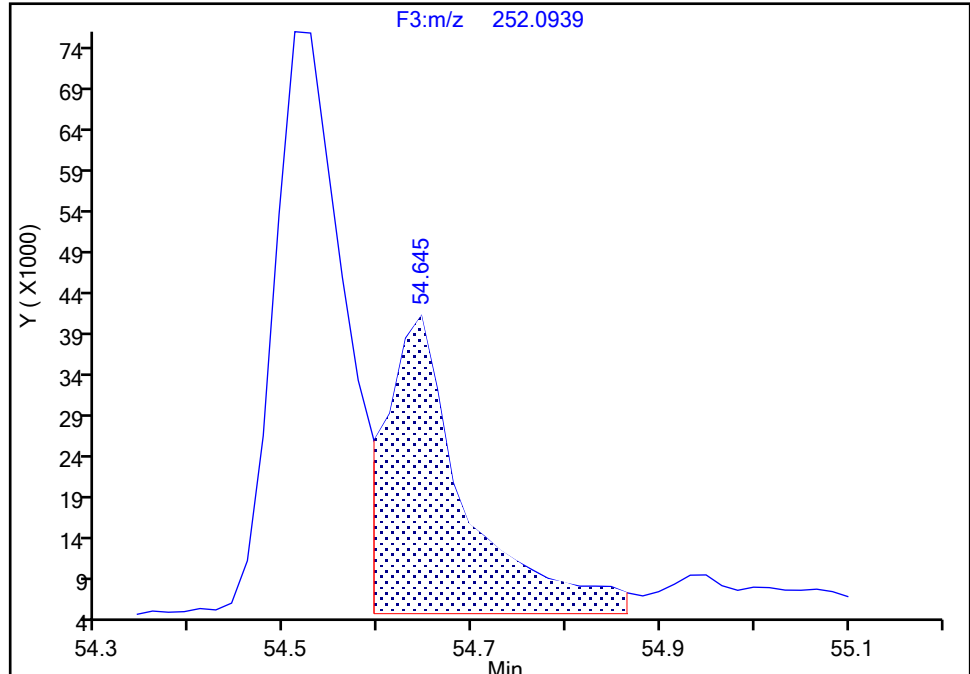
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Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

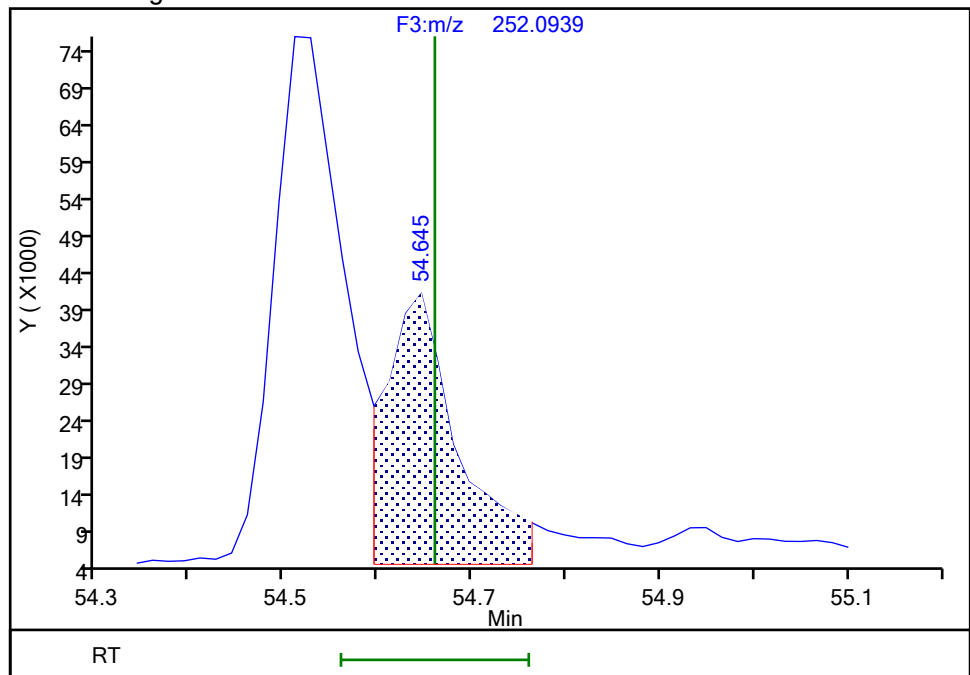
RT: 54.65
Area: 211232
Amount: 0.674313
Amount Units: pg/ul

Processing Integration Results



RT: 54.65
Area: 201852
Amount: 0.644370
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:28:20 -04:00:00 (UTC)

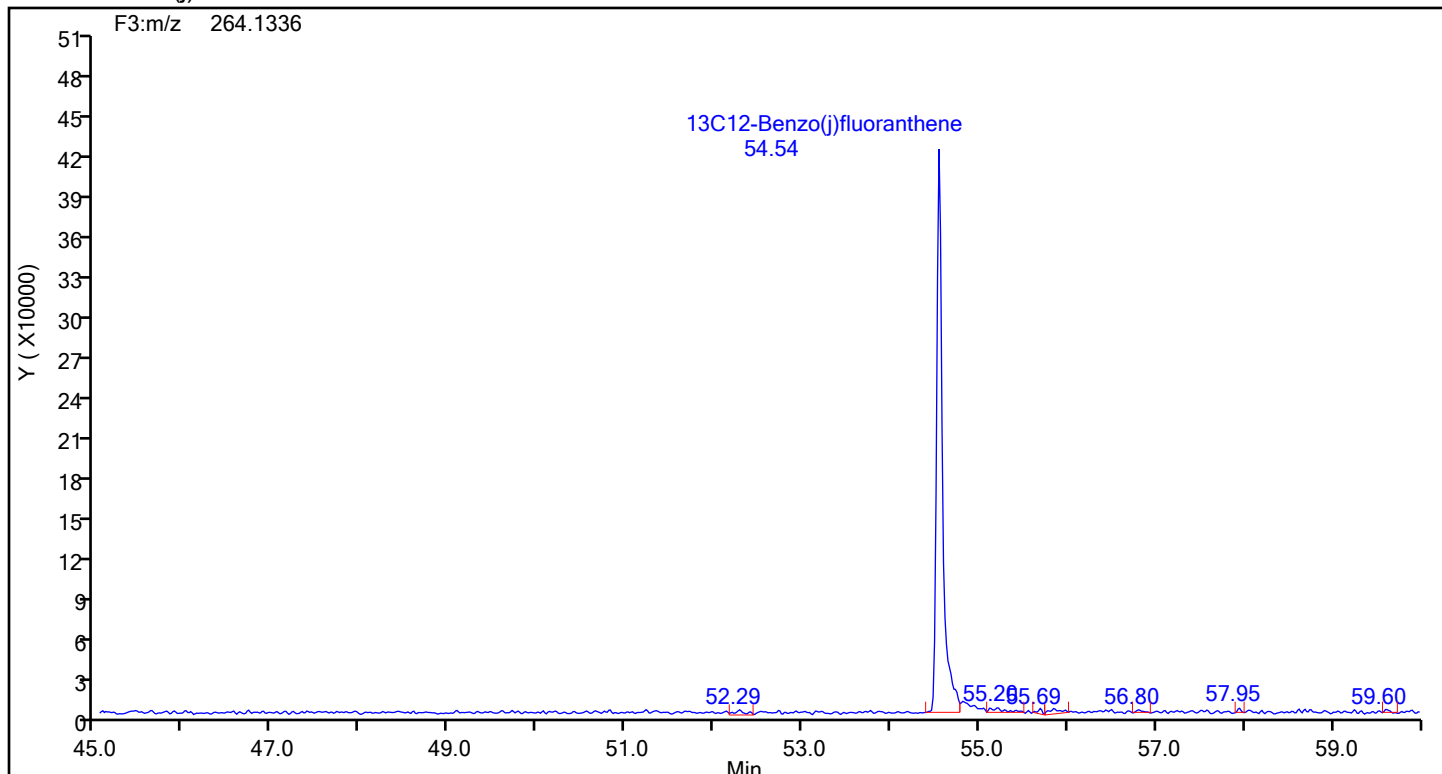
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

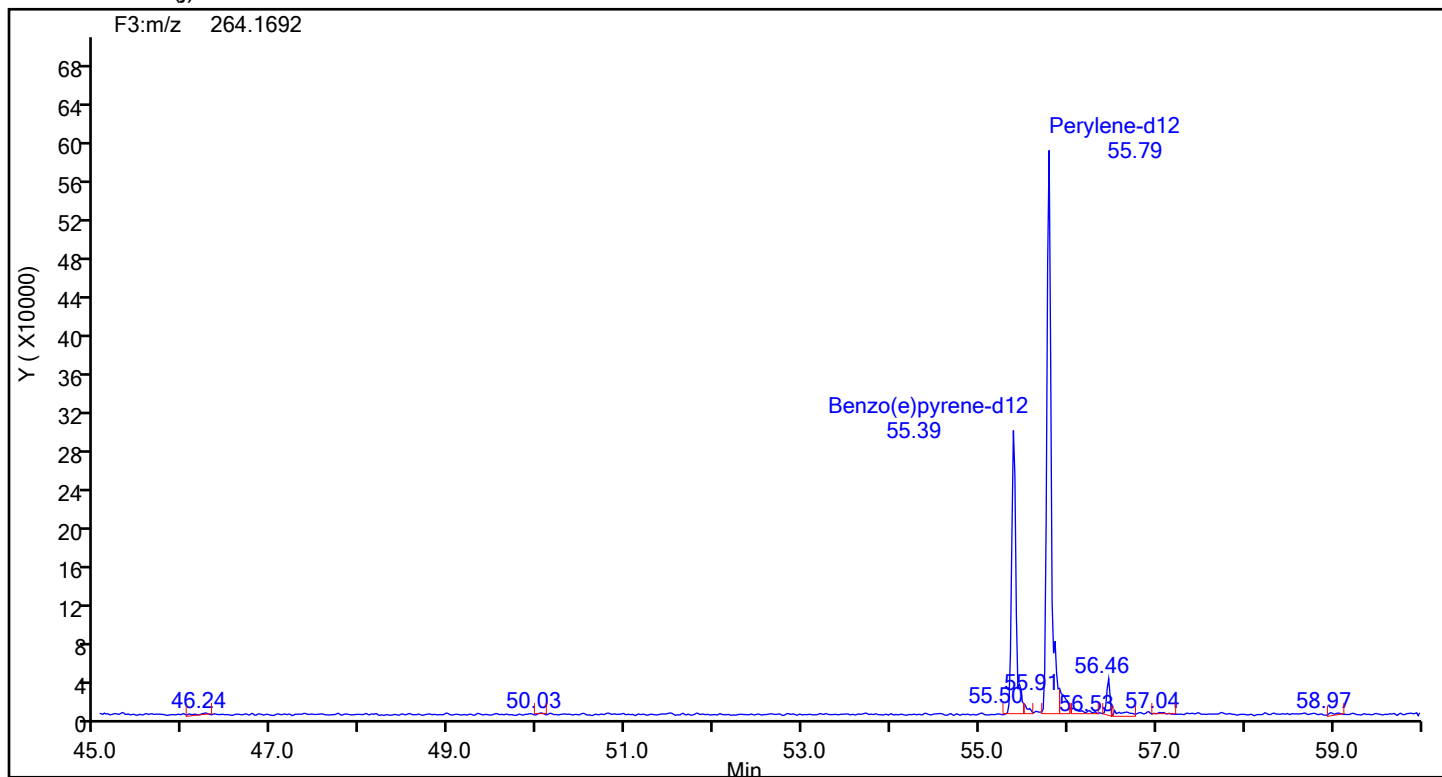
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

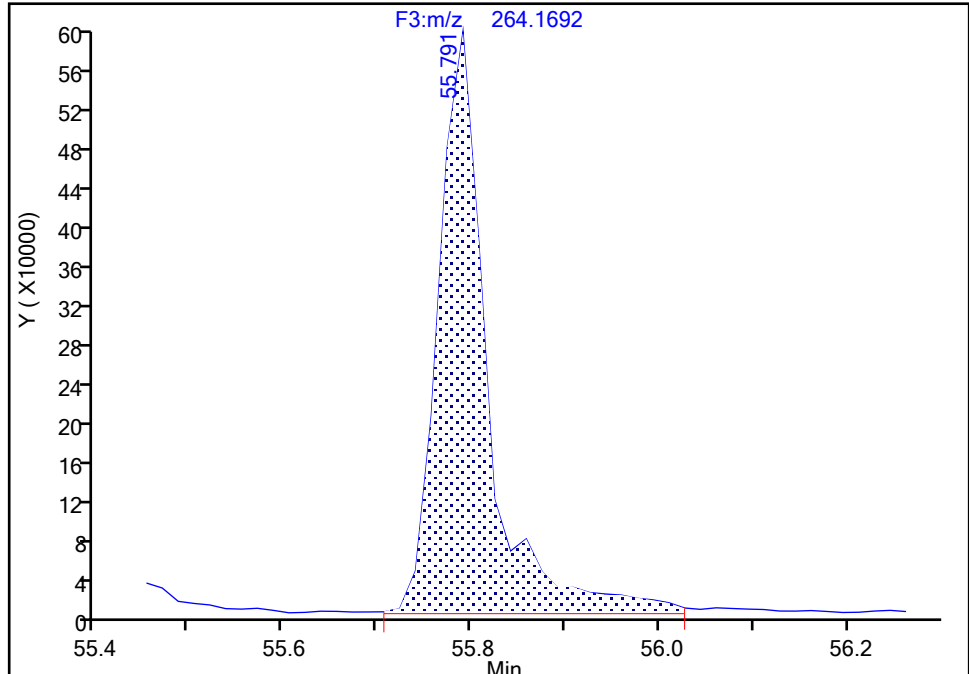
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

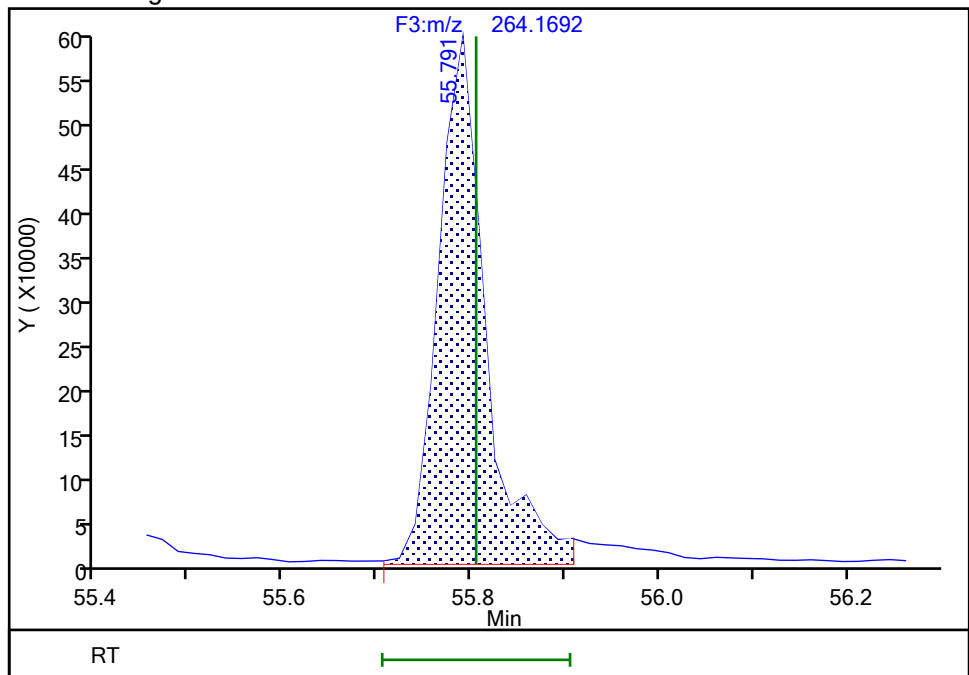
RT: 55.79
Area: 2174337
Amount: 8.486084
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 2066477
Amount: 8.328230
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:26:35 -04:00:00 (UTC)

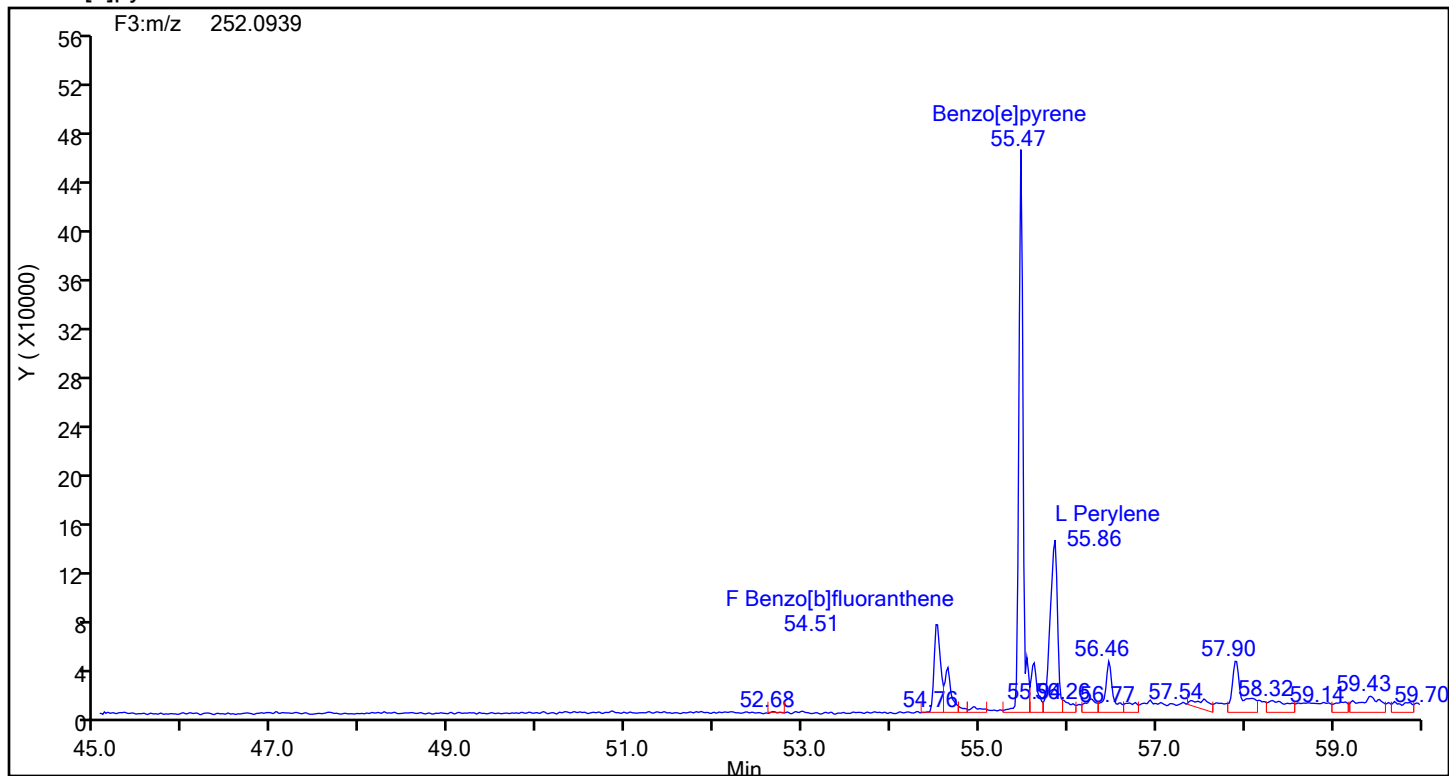
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

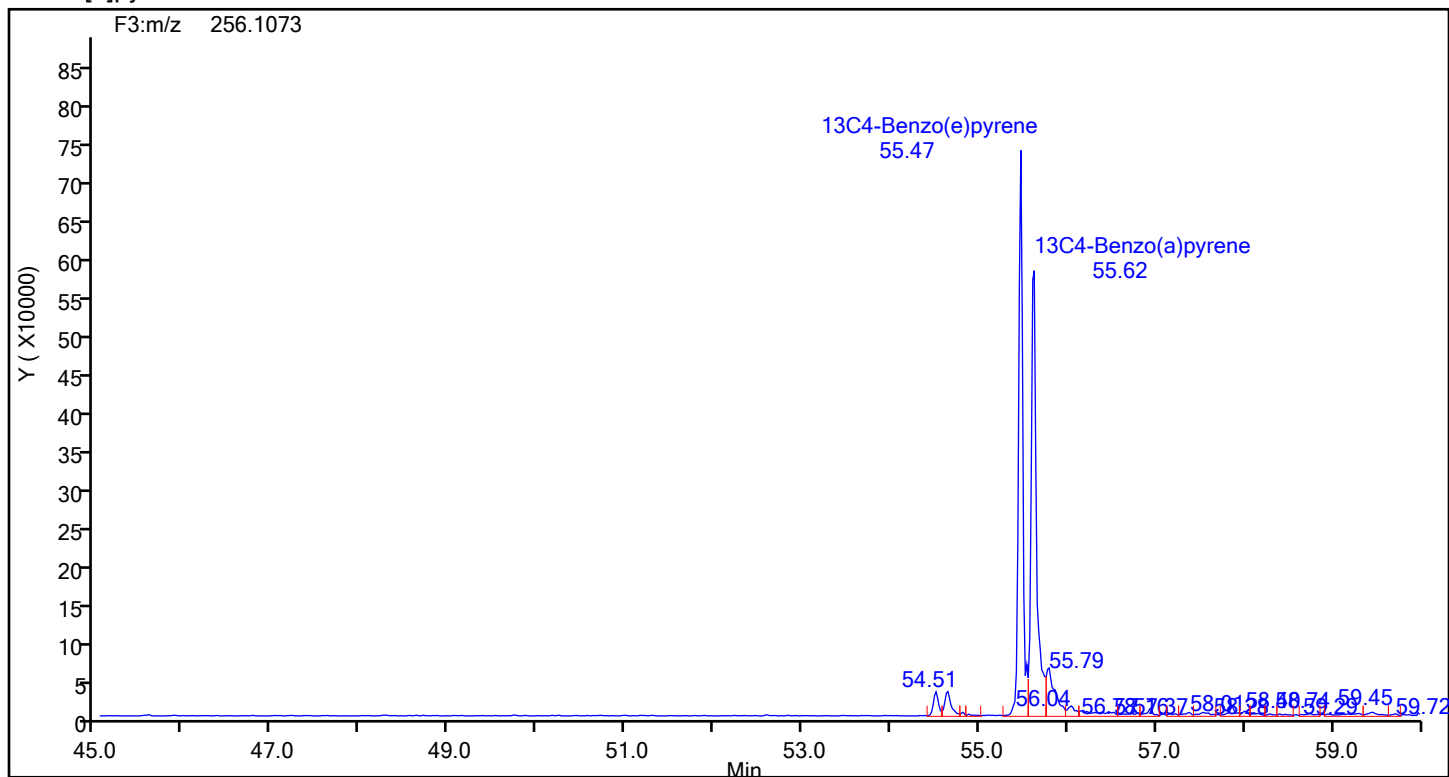
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



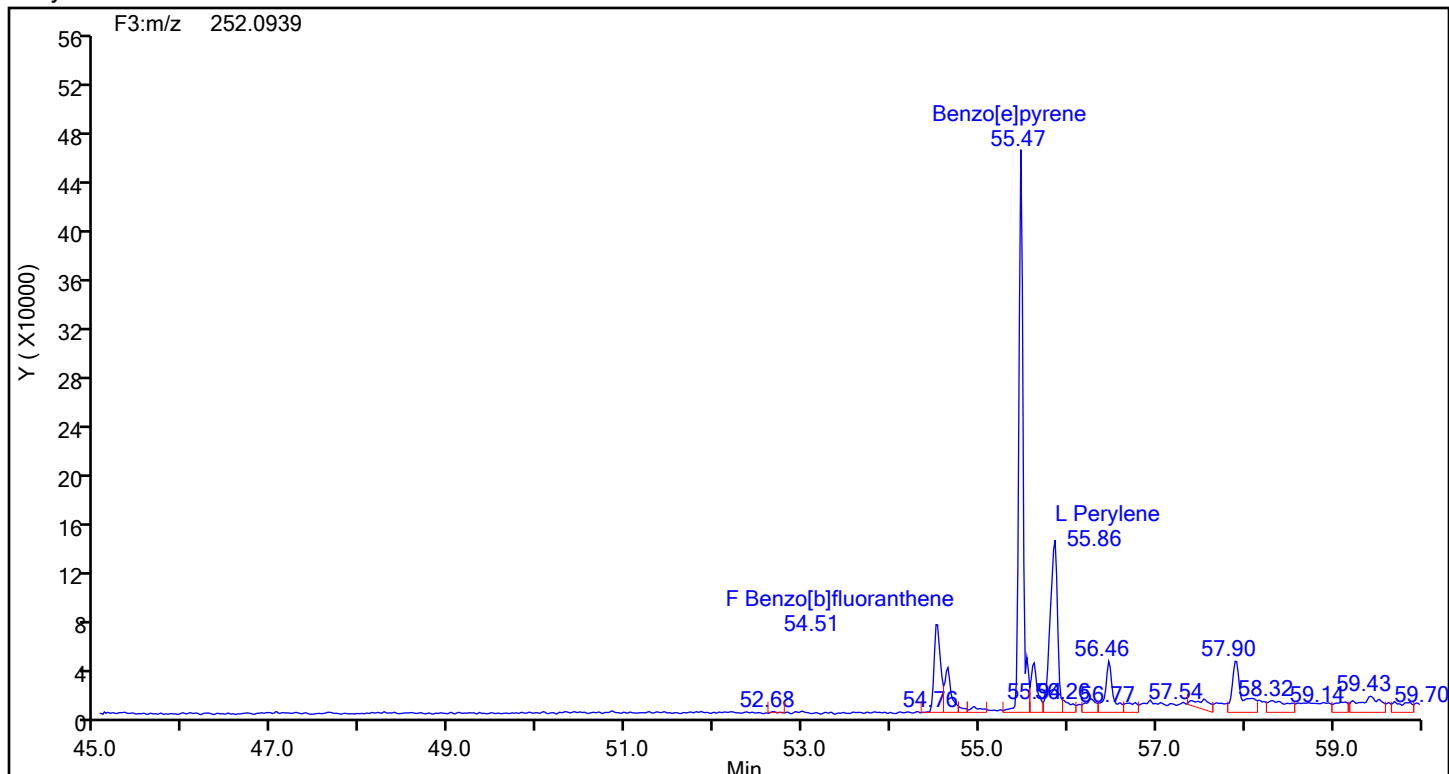
Benzo[e]pyrene Standards



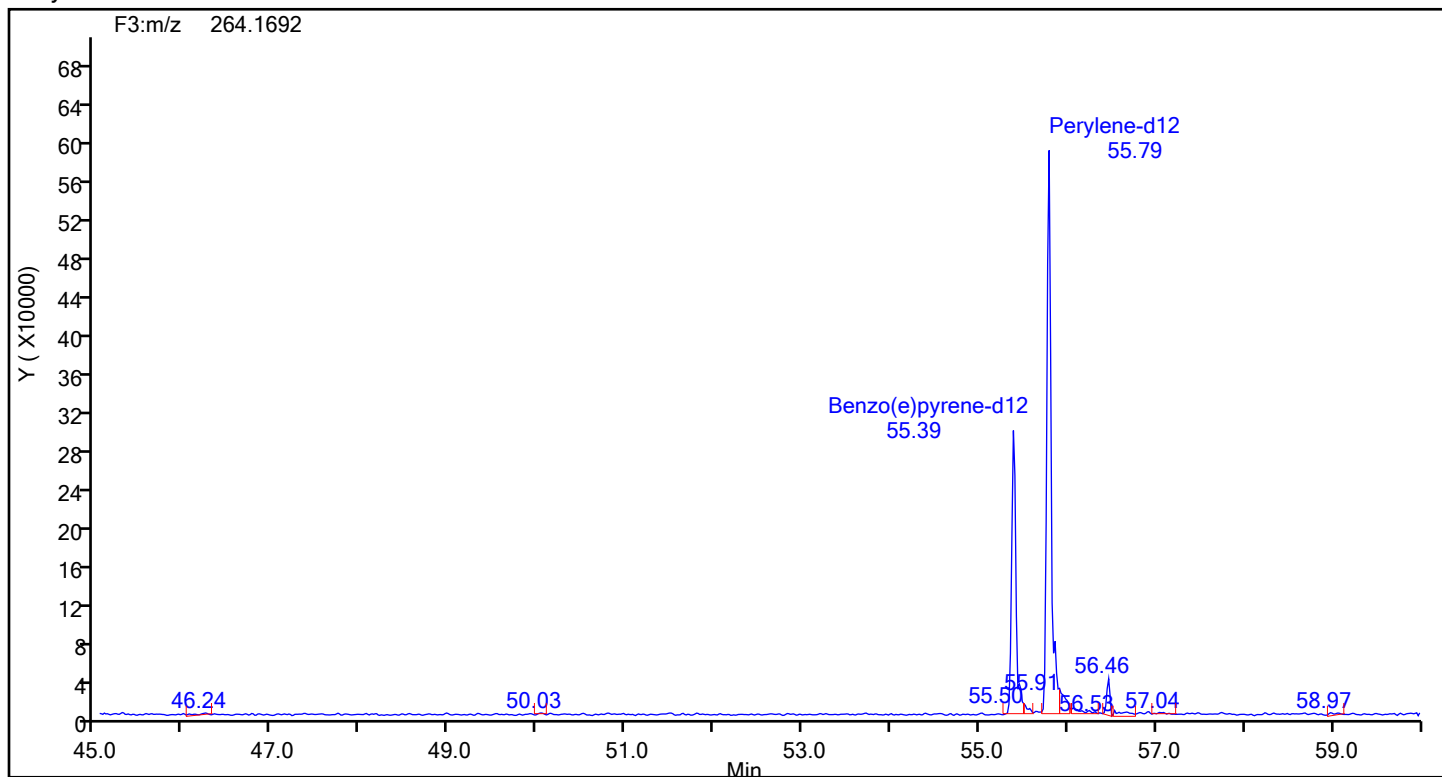
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

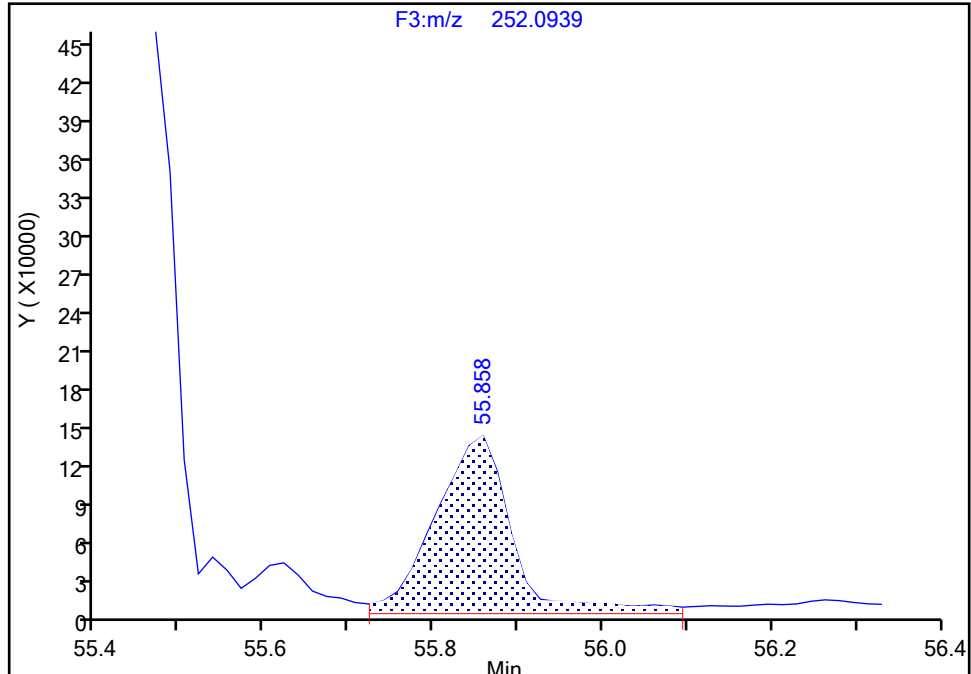
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

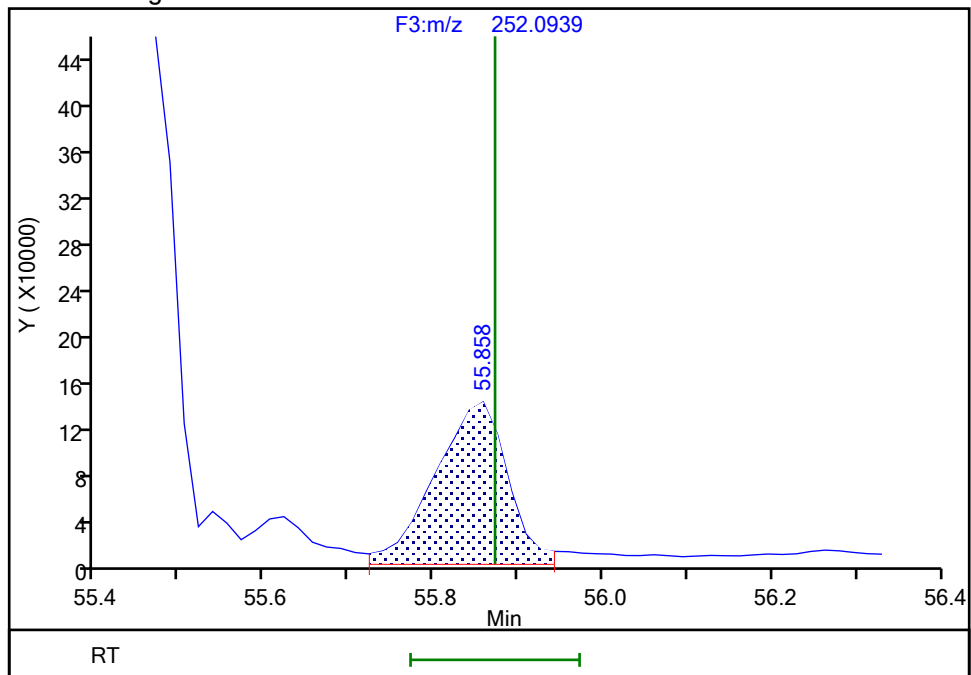
RT: 55.86
Area: 890135
Amount: 3.010821
Amount Units: pg/ul

Processing Integration Results



RT: 55.86
Area: 828786
Amount: 2.803312
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:27:23 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

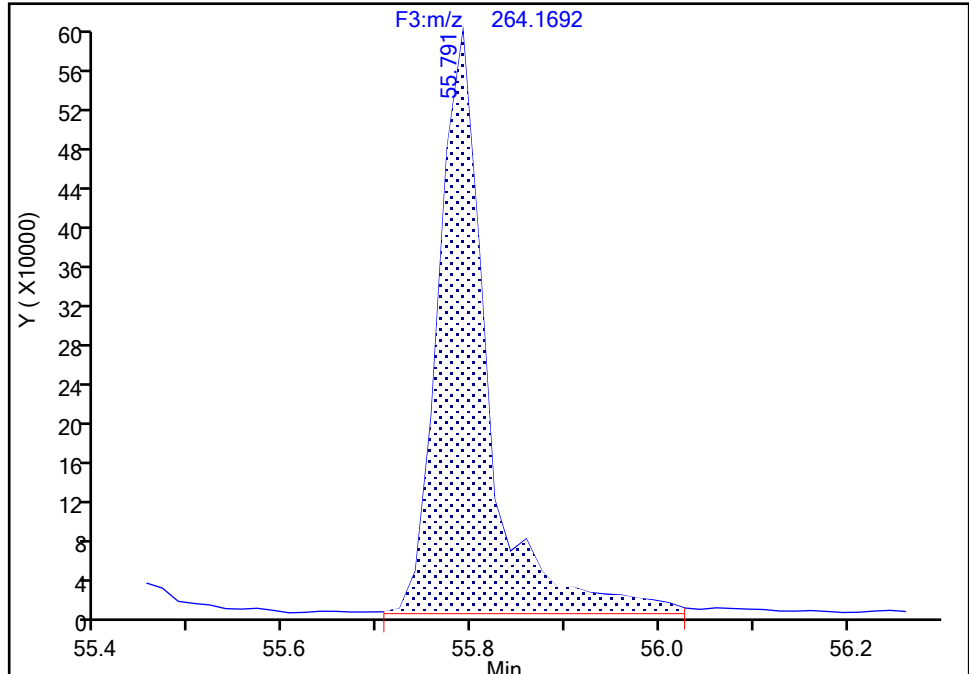
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

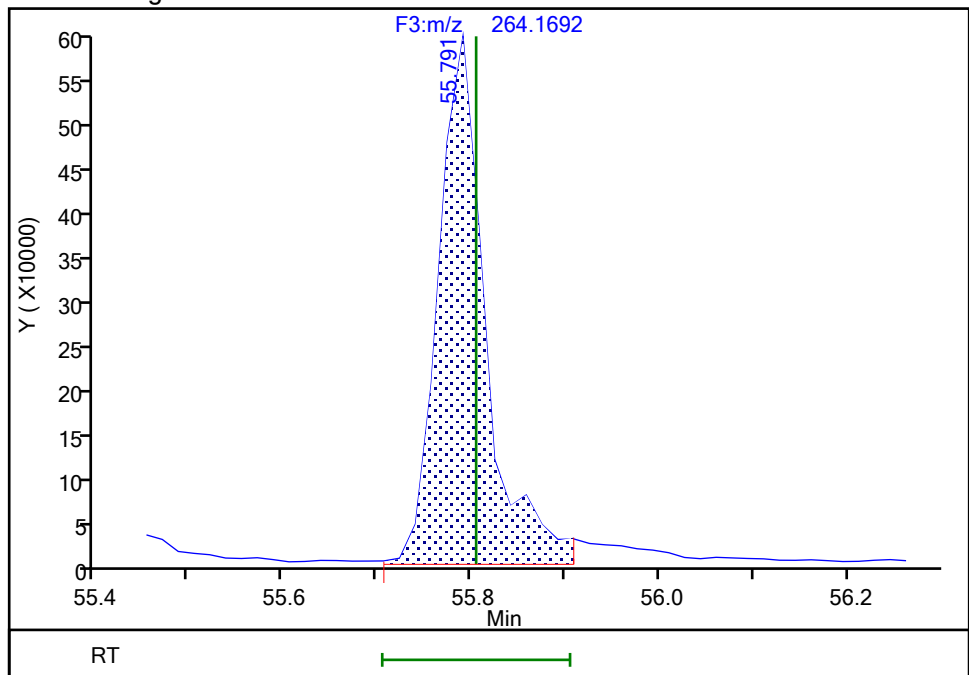
RT: 55.79
Area: 2174337
Amount: 8.486084
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 2066477
Amount: 8.328230
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:26:35 -04:00:00 (UTC)

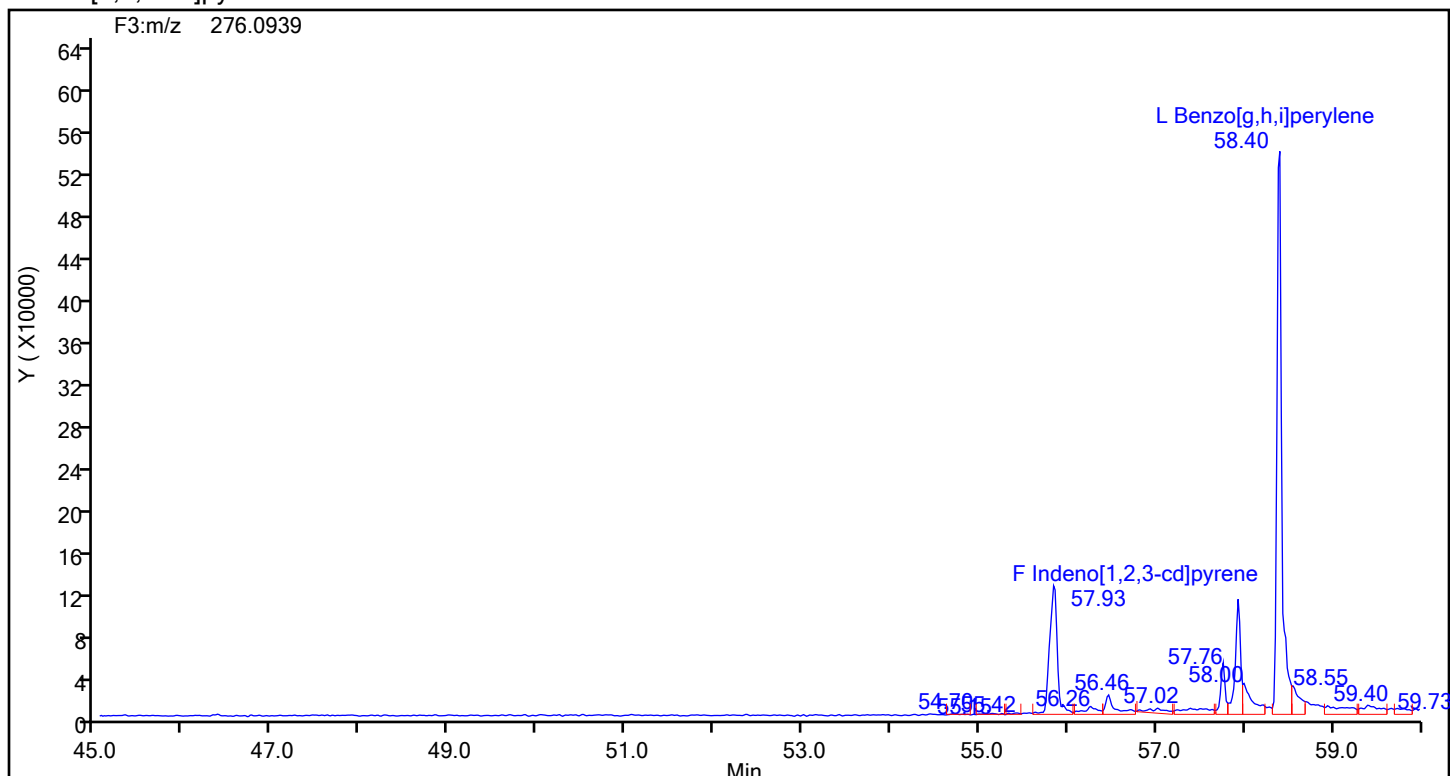
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

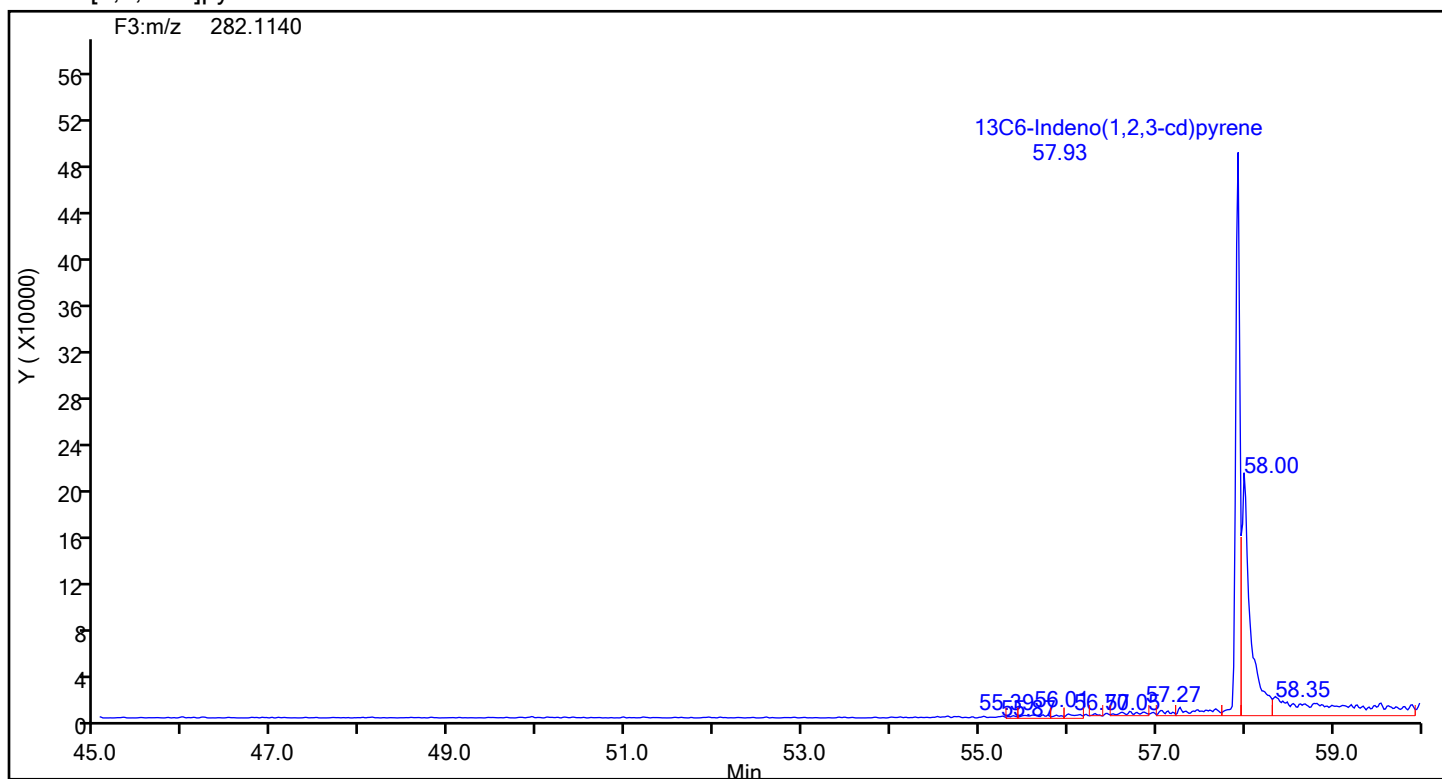
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

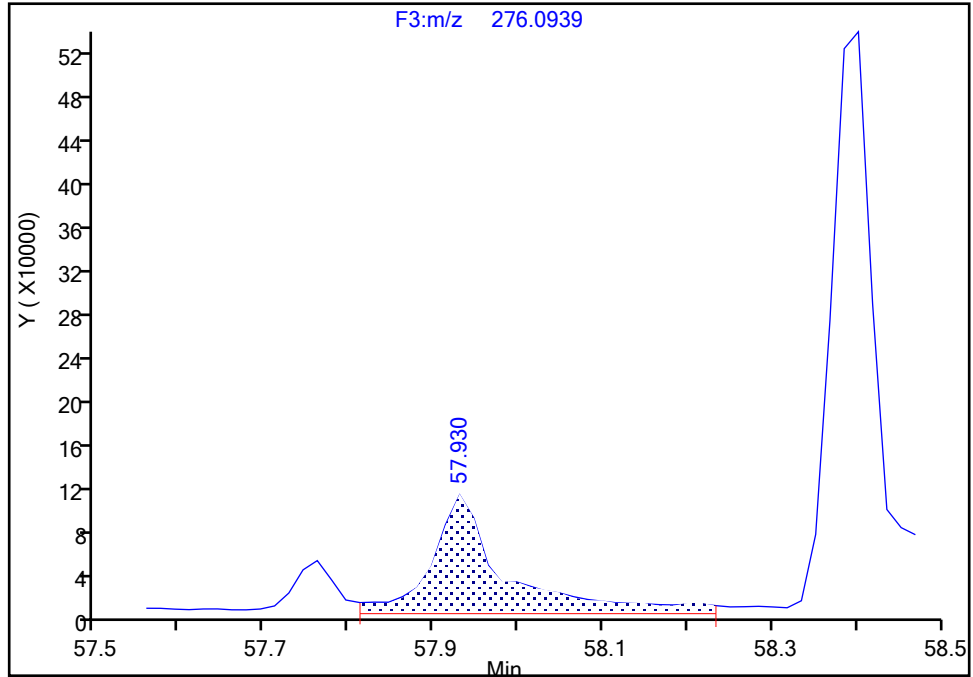
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Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

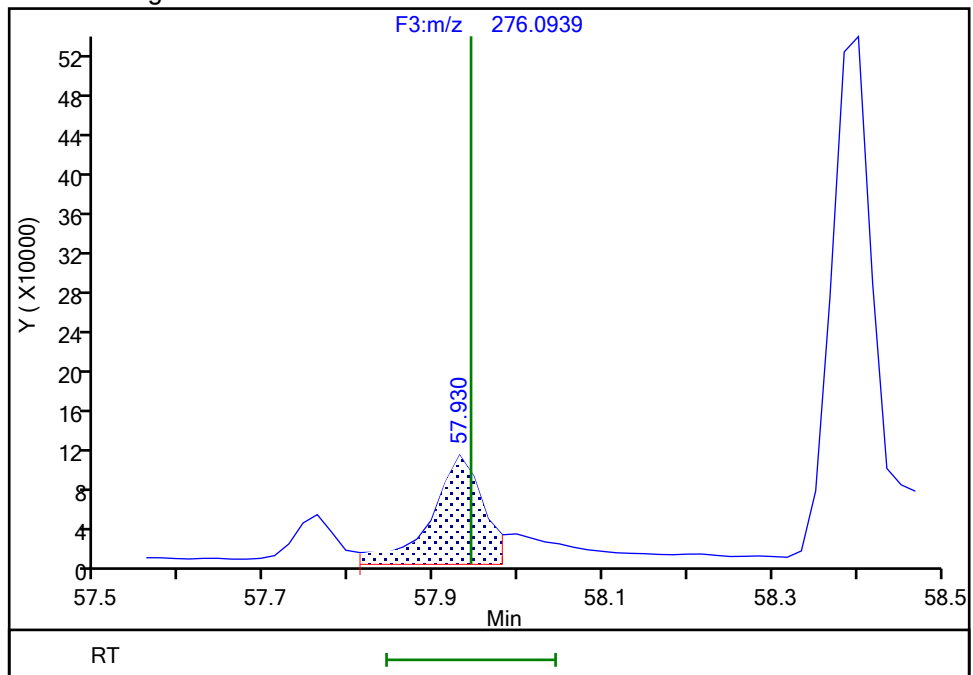
RT: 57.93
Area: 680418
Amount: 3.835461
Amount Units: pg/ul

Processing Integration Results



RT: 57.93
Area: 474959
Amount: 2.677305
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:26:30 -04:00:00 (UTC)

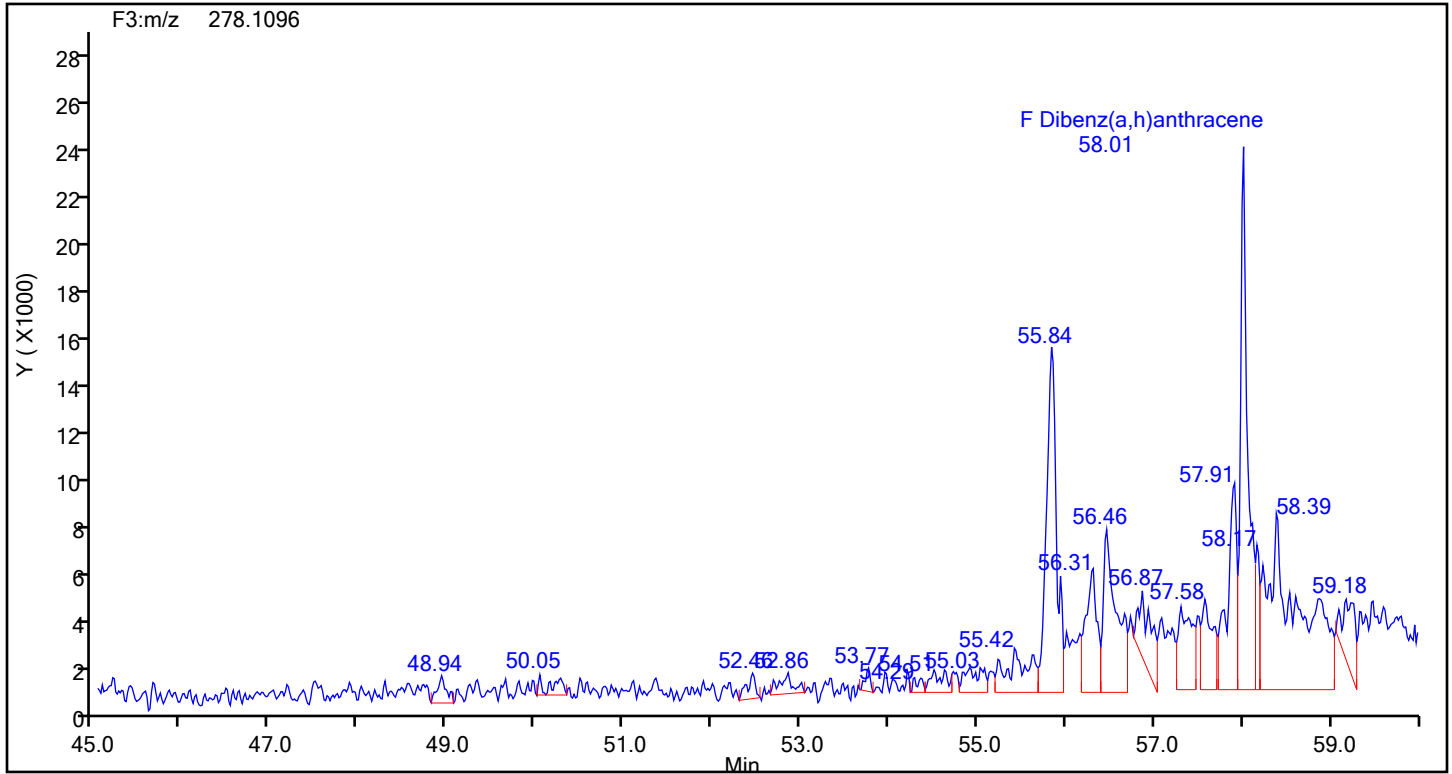
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

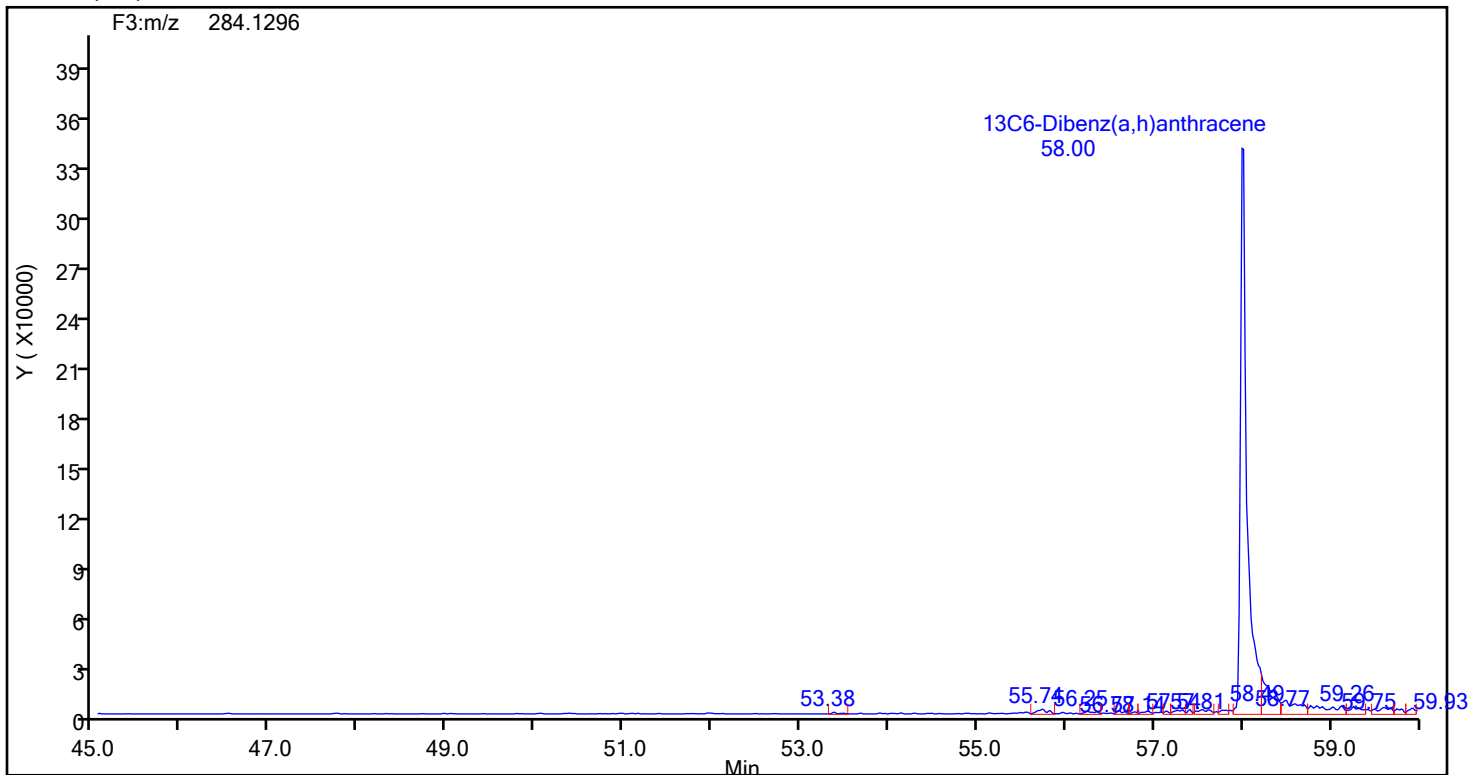
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

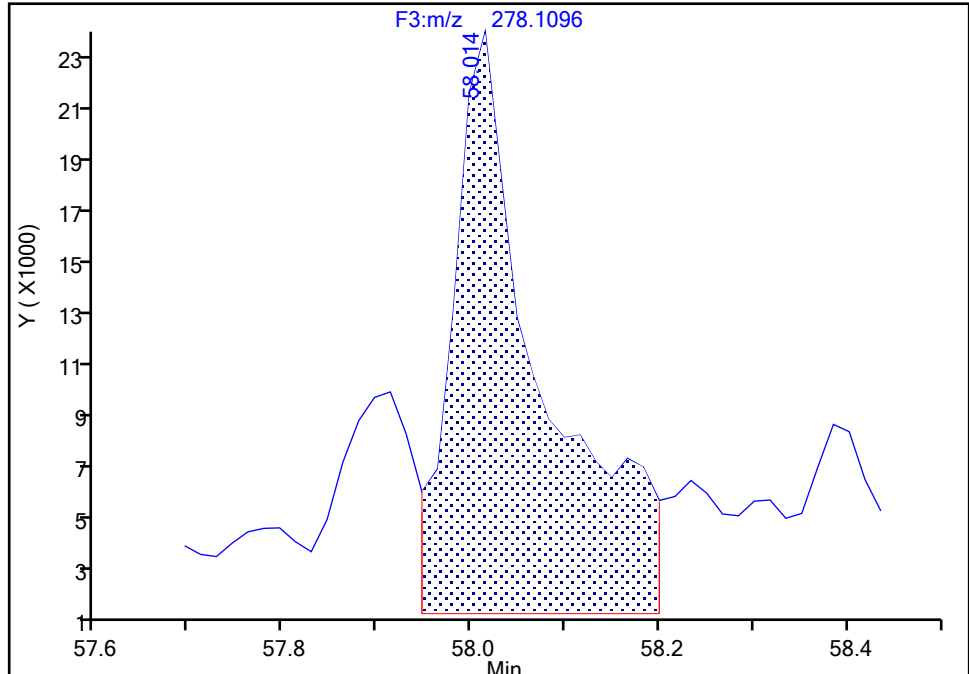
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

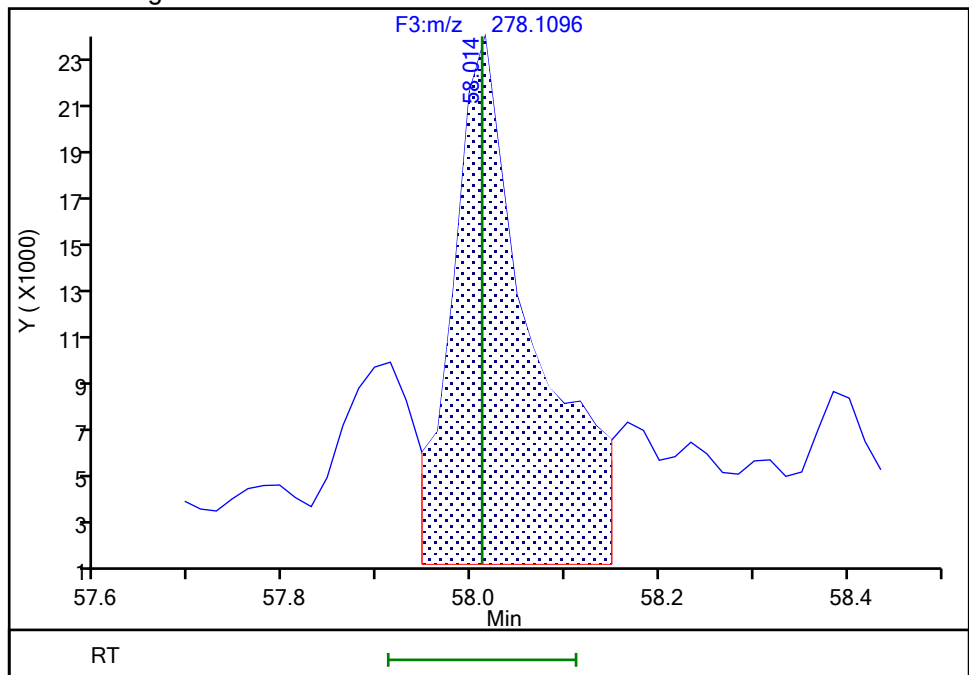
RT: 58.01
Area: 147256
Amount: 0.727248
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 135645
Amount: 0.669905
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:27:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

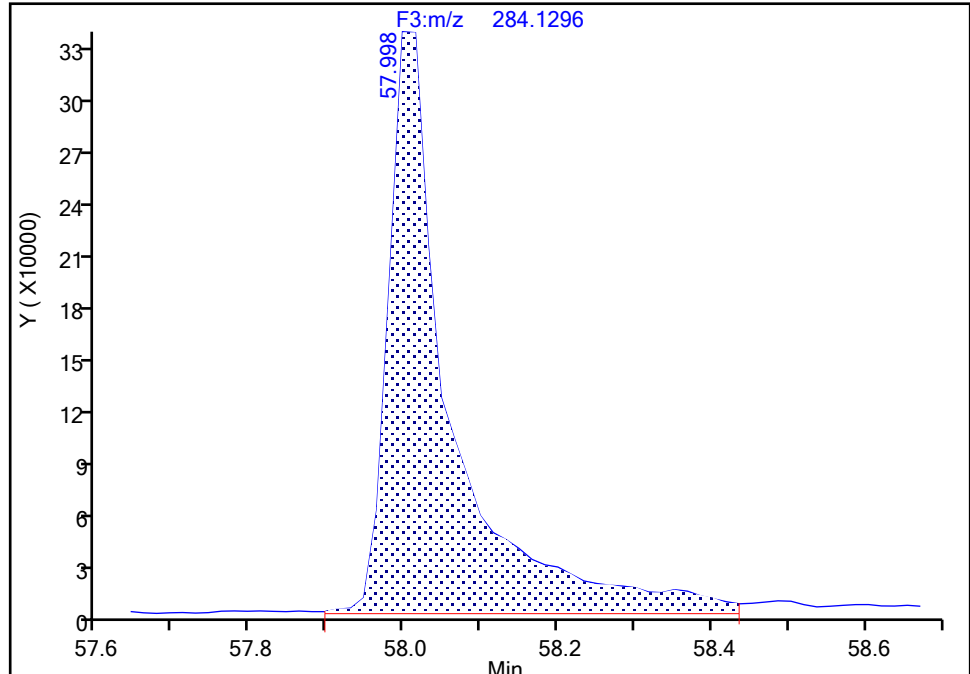
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

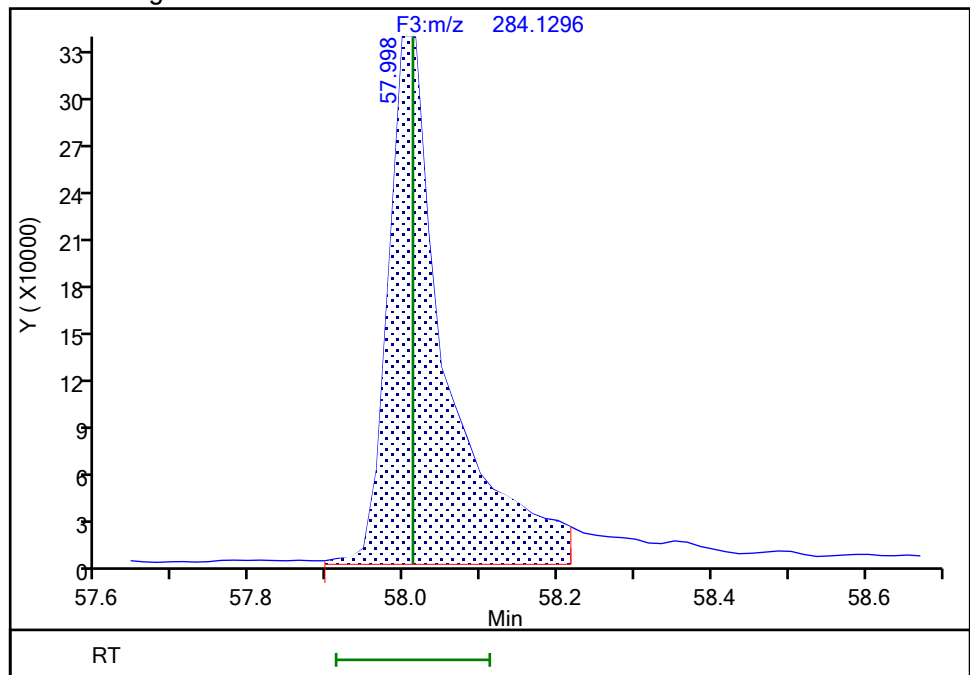
RT: 58.00
Area: 1960763
Amount: 8.641772
Amount Units: pg/ul

Processing Integration Results



RT: 58.00
Area: 1789717
Amount: 8.145237
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:26:43 -04:00:00 (UTC)

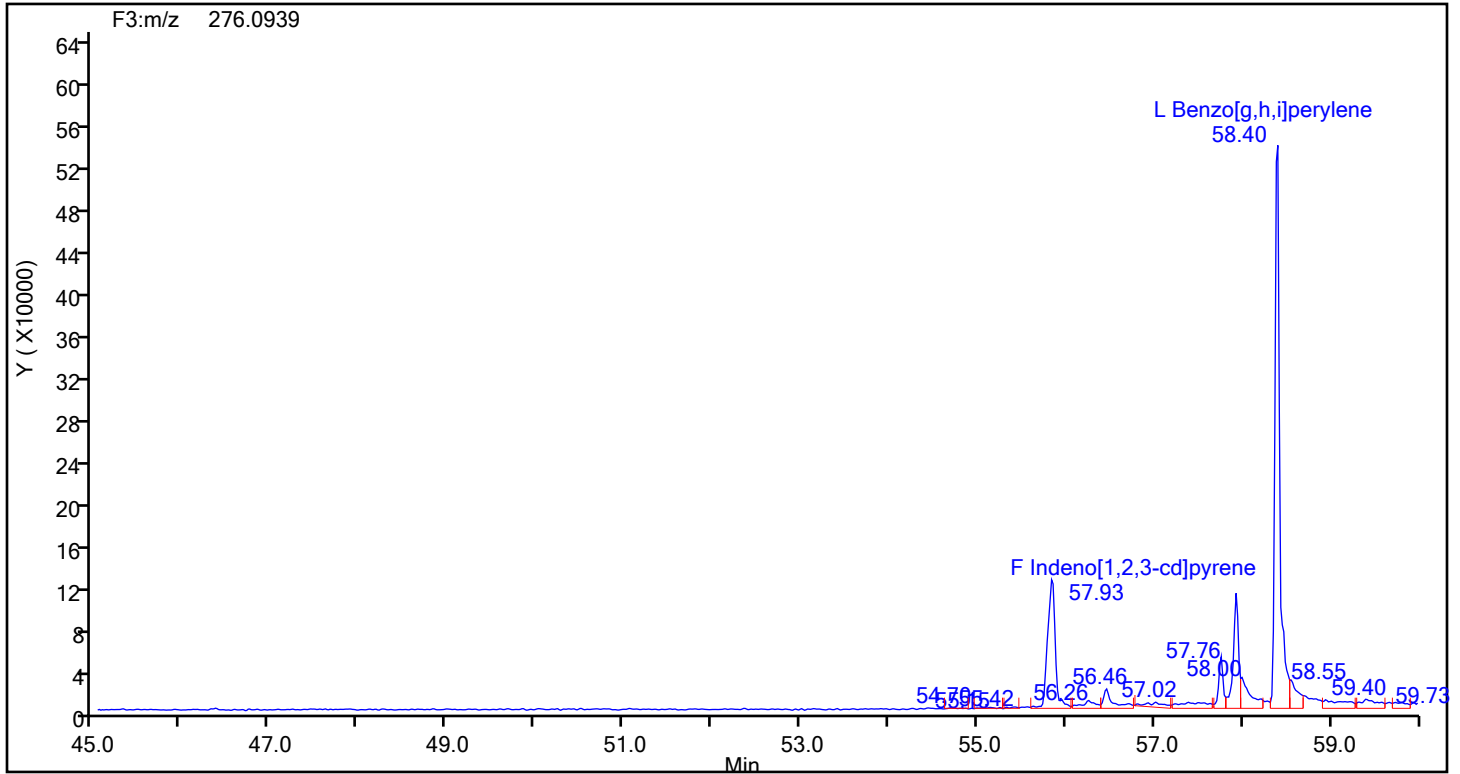
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

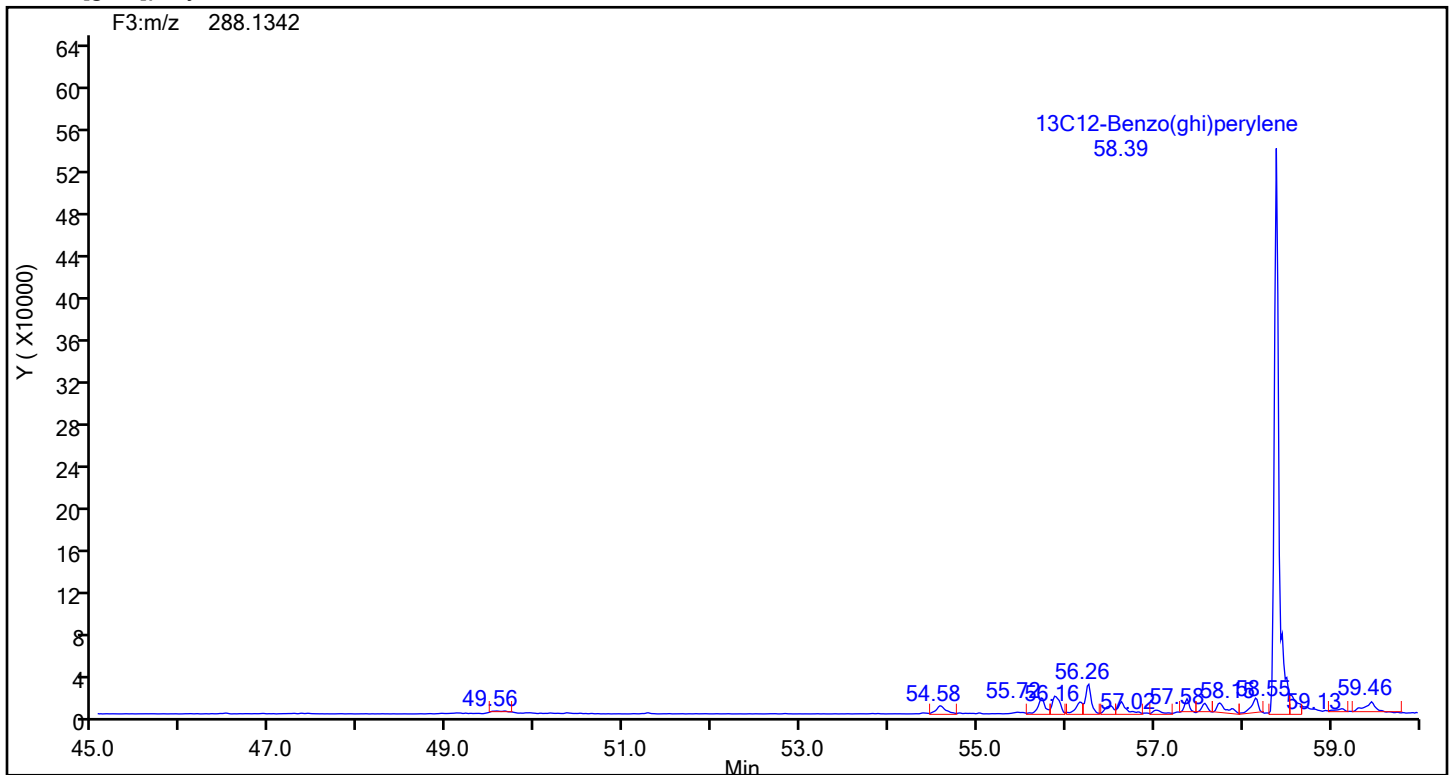
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88978 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

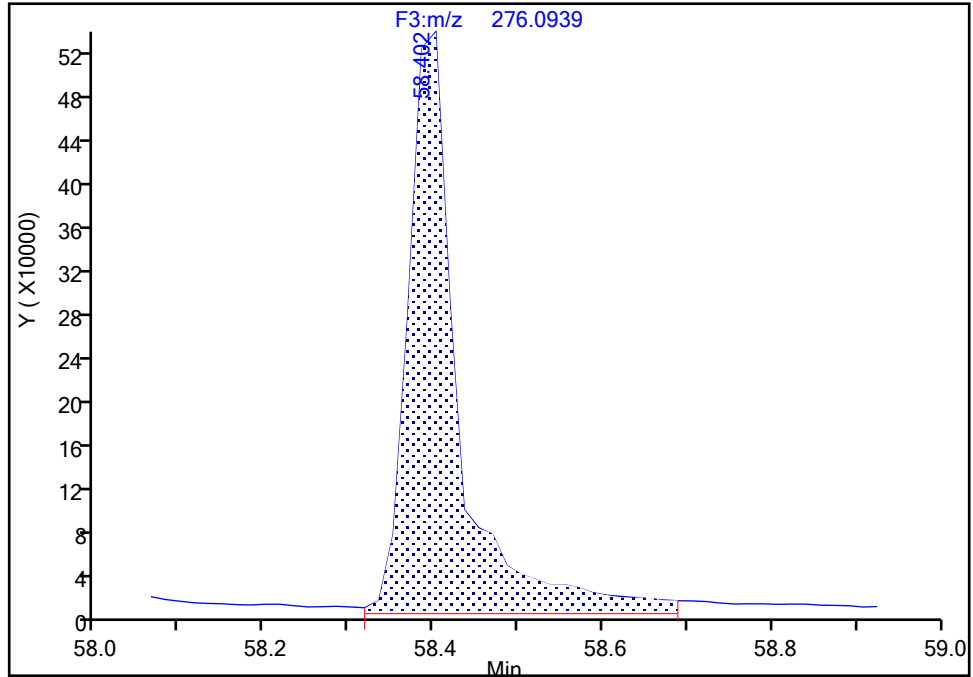
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

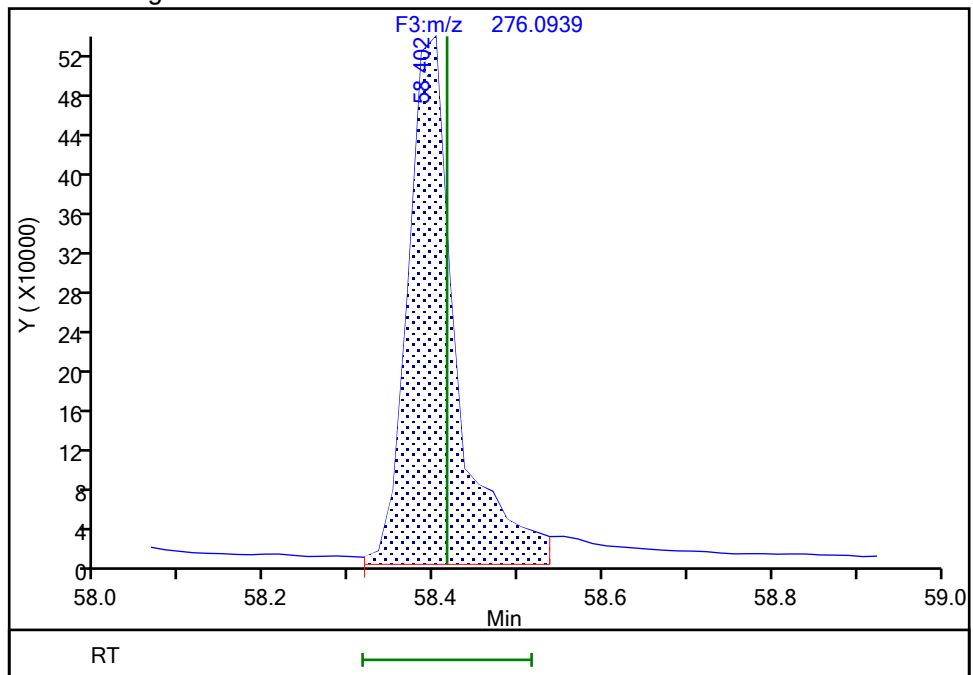
RT: 58.40
Area: 2257049
Amount: 8.657081
Amount Units: pg/ul

Processing Integration Results



RT: 58.40
Area: 2105082
Amount: 8.441320
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:27:43 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

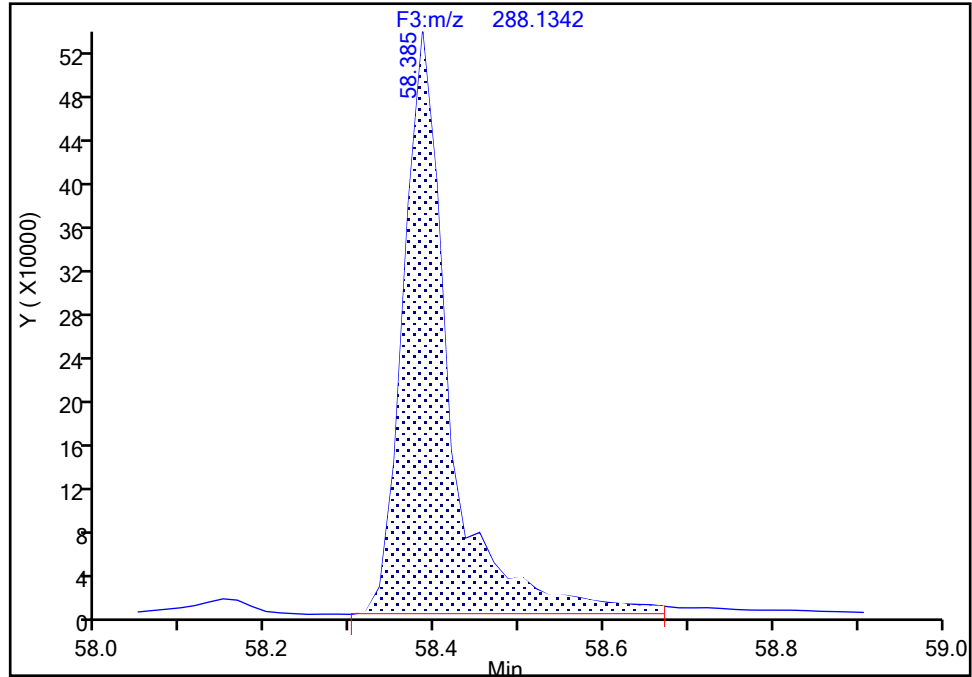
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Injection Date: 19-Jul-2024 20:31:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-4-C Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

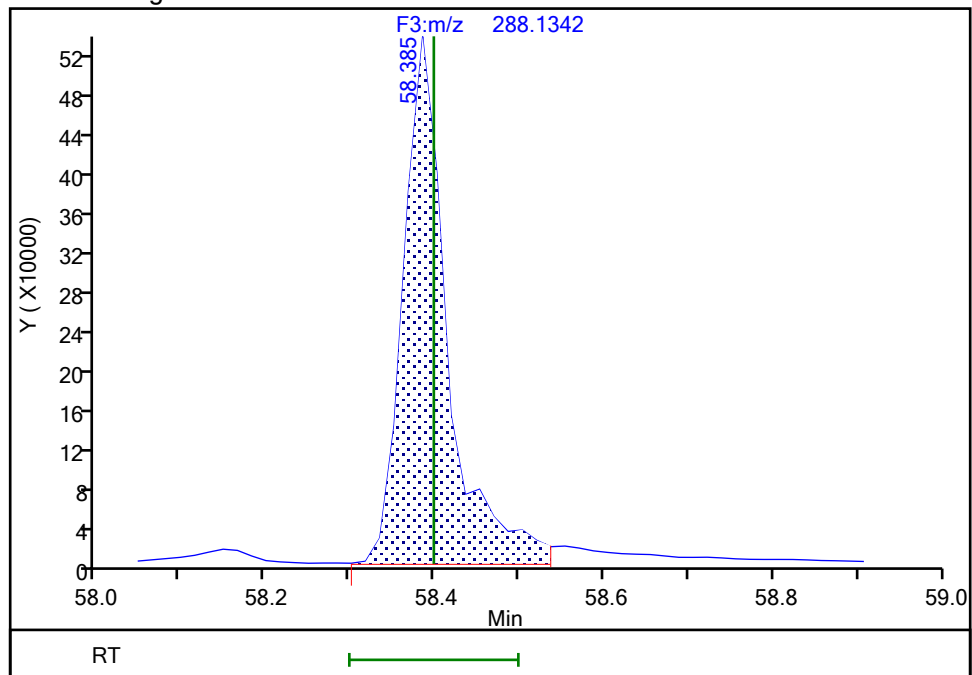
RT: 58.39
Area: 2030893
Amount: 7.650715
Amount Units: pg/ul

Processing Integration Results



RT: 58.39
Area: 1942568
Amount: 7.317979
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 09:28:05 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-a-4-c.d
Lims ID: 140-37232-A-4-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Sample Type: Client
Inject. Date: 19-Jul-2024 20:31:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033585-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 09:28:33 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 09:28:33

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.6427	64.27
13C6-Benzo(c)fluorene	100.0	8.35	83.45
13C12-Benzo(j)fluoranthene	100.0	7.00	70.04

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 5 - COMBINED</u>	Lab Sample ID: <u>140-37232-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-5-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 06:13</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	768	B *+	750	750	0.953
91-57-6	2-Methylnaphthalene	248	J B	750	750	0.555
208-96-8	Acenaphthylene	21.4	J B	30.0	30.0	0.420
83-32-9	Acenaphthene	69.1	J B	300	300	0.547
86-73-7	Fluorene	204	J B	300	300	0.568
85-01-8	Phenanthrene	675	B	60.0	60.0	0.746
120-12-7	Anthracene	78.3	J B	300	300	0.682
206-44-0	Fluoranthene	87.6	B	60.0	60.0	0.235
129-00-0	Pyrene	92.0	B	60.0	60.0	0.249
56-55-3	Benzo[a]anthracene	6.85	J B	60.0	60.0	0.172
218-01-9	Chrysene	17.6	J B	60.0	60.0	0.175
205-99-2	Benzo[b]fluoranthene	7.28	J B	300	300	0.0889
207-08-9	Benzo[k]fluoranthene	4.50	J B	60.0	60.0	0.0881
192-97-2	Benzo[e]pyrene	17.0	J B	60.0	60.0	0.0753
50-32-8	Benzo[a]pyrene	4.27	J B	30.0	30.0	0.0701
198-55-0	Perylene	1.76	J B	30.0	30.0	0.0654
193-39-5	Indeno[1,2,3-cd]pyrene	7.79	J B	30.0	30.0	0.0671
53-70-3	Dibenz(a,h)anthracene	7.43	J B	60.0	60.0	0.0521
191-24-2	Benzo[g,h,i]perylene	29.1	J B	60.0	60.0	0.0601

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 5 - COMBINED</u>	Lab Sample ID: <u>140-37232-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-5-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 06:13</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	48		20-130
STL03357	13C6-2-Methylnaphthalene	52		20-130
189811-56-1	13C6-Acenaphthylene	70		20-130
189811-57-2	13C6-Acenaphthene	65		20-130
STL00616	13C6-Fluorene	73		20-130
1397194-60-3	13C6-Fluoranthrene	79		20-130
1397214-90-2	13C3-Pyrene	72		20-130
917378-11-1	13C6-Benzo (a) anthracene	61		20-130
1397177-72-8	13C6-Chrysene	63		20-130
STL03358	13C6-Benzo (b) fluoranthene	69		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	75		20-130
STL03382	13C4-Benzo (e) pyrene	69		20-130
STL03359	13C4-Benzo (a) pyrene	76		20-130
1520-96-3	Perylene-d12	74		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	87		20-130
STL03360	13C6-Dibenz (a,h) anthracene	88		20-130
350820-11-0	13C12-Benzo (ghi) perylene	77		20-130
189811-60-7	13C6-Anthracene	71		20-130
1189955-53-0	13C6-Phenanthrene	63		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Lims ID: 140-37232-A-5-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 06:13:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:27:16 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:27:16

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	2773423		3.3746	4.826	4.826	0.003360	0.003360	48.26	
Naphthalene	11:28	18301326		1.2893	51.2	51.2	0.0635	0.0635		
D 13C6-2-Methylnaphthalene	13:47	1429274		1.6031	5.235	5.235	0.001771	0.001771	52.35	
2-Methylnaphthalene	13:47	3017613		1.2786	16.5	16.5	0.0370	0.0370		
D 13C6-Acenaphthylene	16:37	1979201		1.6520	7.034	7.034	0.007061	0.007061	70.34	
Acenaphthylene	16:37	367588		2.3661	1.426	1.426	0.0280	0.0280		
* Acenaphthene-d10	17:11	851557		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:18	1089458		0.9792	6.533	6.533	0.007019	0.007019	65.33	
Acenaphthene	17:19	636866		1.2697	4.604	4.604	0.0365	0.0365		
D 13C6-Fluorene	19:34	1105319		0.8898	7.293	7.293	0.0123	0.0123	72.93	
Fluorene	19:35	1888232		1.2532	13.6	13.6	0.0378	0.0378		
D 13C6-Phenanthrene	24:56	1704223		0.5724	6.301	6.301	0.003576	0.003576	63.01	
Phenanthrene	24:56	8465435		1.1044	45.0	45.0	0.0497	0.0497		
\$ Anthracin-d10	25:09	108932		0.4257	0.5416	0.5416	0.002013	0.002013	54.16	
D 13C6-Anthracene	25:15	1524633		0.4523	7.134	7.134	0.004525	0.004525	71.34	
Anthracene	25:16	1081906		1.3586	5.223	5.223	0.0455	0.0455		
D 13C6-Fluoranthrene	33:38	4453275		1.1994	7.858	7.858	0.0120	0.0120	78.58	
Fluoranthene	33:39	2992571		1.1513	5.837	5.837	0.0157	0.0157		
* Pyrene-d10	35:11	2362462		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:20	4594310		1.3512	7.196	7.196	0.007443	0.007443	71.96	
Pyrene	35:20	3002517		1.0652	6.135	6.135	0.0166	0.0166		
\$ 13C6-Benzo(c)fluorene	39:02	2246392		0.5136	9.257	9.257	0.005793	0.005793	92.57	
D 13C6-Benzo(a)anthracene	45:51	3976135		1.5189	6.061	6.061	0.004287	0.004287	60.61	
Benzo[a]anthracene	45:51	176733		0.9739	0.4564	0.4564	0.0115	0.0115		
D 13C6-Chrysene	46:07	4410529		1.6287	6.270	6.270	0.003998	0.003998	62.70	
Chrysene	46:07	507136		0.9815	1.172	1.172	0.0117	0.0117		M
D 13C6-Benzo(b)fluoranthene	54:30	4332748		1.4621	6.862	6.862	0.001920	0.001920	68.62	
Benzo[b]fluoranthene	54:30	236589		1.1249	0.4854	0.4854	0.005930	0.005930		
\$ 13C12-Benzo(j)fluoranthene	54:32	4313664		1.3558	7.367	7.367	0.007418	0.007418	73.67	
D 13C6-Benzo(k)fluoranthene	54:37	5667922		1.7507	7.497	7.497	0.001604	0.001604	74.97	
Benzo[k]fluoranthene	54:38	191766		1.1271	0.3002	0.3002	0.005875	0.005875		M
* Benzo(e)pyrene-d12	55:22	2159357		5.7E+04	5.000	5.000				
Benzo[e]pyrene	55:27	548380		1.0013	1.131	1.131	0.005021	0.005021		
D 13C4-Benzo(e)pyrene	55:27	4843663		1.6368	6.852	6.852	0.003046	0.003046	68.52	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:36	5079185		1.5508	7.584	7.584	0.003216	0.003216	75.84	
Benzo[a]pyrene	55:36	161063		1.1130	0.2849	0.2849	0.004676	0.004676		
D Perylene-d12	55:46	3827112		1.1917	7.436	7.436	0.007082	0.007082	74.36	M
Perylene	55:50	64107		1.4307	0.1171	0.1171	0.004361	0.004361		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	3846705		1.0218	8.717	8.717	0.004880	0.004880	87.17	M
Indeno[1,2,3-cd]pyrene	57:55	224760		1.1249	0.5194	0.5194	0.004472	0.004472		
D 13C6-Dibenz(a,h)anthracene	58:00	4006623		1.0553	8.791	8.791	0.002676	0.002676	87.91	M
Dibenz(a,h)anthracene	58:00	224443		1.1314	0.4951	0.4951	0.003473	0.003473		M
D 13C12-Benzo(ghi)perylene	58:22	4257763		1.2749	7.733	7.733	0.000736	0.000736	77.33	
Benzo[g,h,i]perylene	58:23	1061102		1.2838	1.941	1.941	0.004006	0.004006		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Lims ID: 140-37232-A-5-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 06:13:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:27:16 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 11:27:16

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:28	11:24	3	0.667	2773423	919205	251	627	3662		
Naphthalene											
128.0626	11:28	11:27	3	1.001	18301326	5961297	3011	7527	1980		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:46	0	0.801	1429274	612575	63	157	9723		
2-Methylnaphthalene											
142.0783	13:47	13:47	1	1.001	3017613	1332039	1160	2900	1148		
13C6-Acenaphthylene											
158.0828	16:37	16:38	0	0.967	1979201	663957	258	645	2573		
Acenaphthylene											
152.0626	16:37	16:38	0	1.000	367588	135020	984	2460	137		
Acenaphthene-d10											
164.1404	17:11	17:12	-1		851557	276461	38	95	7275		
13C6-Acenaphthene											
160.0984	17:18	17:19	0	1.007	1089458	370999	152	380	2441		
Acenaphthene											
154.0783	17:19	17:20	0	1.001	636866	211130	687	1717	307		
13C6-Fluorene											
172.0984	19:34	19:35	-1	1.138	1105319	314154	243	607	1293		
Fluorene											
166.0783	19:35	19:35	-1	1.001	1888232	492720	596	1490	827		
13C6-Phenanthrene											
184.0984	24:56	24:55	0	0.708	1704223	384044	69	172	5566		
Phenanthrene											
178.0783	24:56	24:55	-1	1.000	8465435	1841508	844	2110	2182		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:08	0	0.715	108932	22633	29	72	780		
13C6-Anthracene											
184.0984	25:15	25:15	-1	0.718	1524633	341451	69	172	4949		
Anthracene											
178.0783	25:16	25:14	0	1.000	1081906	215700	844	2110	256		
13C6-Fluoranthrene											
208.0984	33:38	33:38	-1	0.956	4453275	793820	482	1205	1647		
Fluoranthene											
202.0783	33:39	33:37	-1	1.000	2992571	530258	573	1432	925		
Pyrene-d10											
212.1404	35:11	35:12	-1		2362462	420115	121	302	3472		
13C3-Pyrene											
205.0883	35:20	35:19	-1	1.004	4594310	810872	338	845	2399		
Pyrene											
202.0783	35:20	35:19	-1	1.000	3002517	532422	573	1432	929		
13C6-Benzo(c)fluorene											
222.1134	39:02	39:02	-1	0.705	2246392	374520	100	250	3745		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:49	0	1.303	3976135	635526	311	777	2043		
Benzo[a]anthracene											
228.0939	45:51	45:52	-1	1.000	176733	28948	284	710	102		
13C6-Chrysene											
234.1140	46:07	46:09	0	1.311	4410529	620482	311	777	1995		
Chrysene											
228.0939	46:07	46:07	-1	1.000	507136	63829	284	710	225		M
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:28	0	0.984	4332748	1109382	134	335	8279		M
Benzo[b]fluoranthene											
252.0939	54:30	54:29	0	1.000	236589	54450	296	740	184		M
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:30	0	0.985	4313664	973426	480	1200	2028		
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:38	0	0.986	5667922	1117565	134	335	8340		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	191766	36512	296	740	123		M
Benzo(e)pyrene-d12											
264.1692	55:22	55:23	-1		2159357	596597	403	1007	1480		
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	548380	153129	296	740	517		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:26	0	1.002	4843663	1472084	238	595	6185		
13C4-Benzo(a)pyrene											
256.1073	55:36	55:35	0	1.004	5079185	1421693	238	595	5974		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:36	55:36	0	1.000	161063	36161	296	740	122		
Perylene-d12											
264.1692	55:46	55:46	0	1.007	3827112	1186051	403	1007	2943		M
Perylene											
252.0939	55:50	55:50	0	1.001	64107	16053	296	740	54		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	0	1.046	3846705	1156959	238	595	4861		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:54	0	1.000	224760	65011	233	582	279		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	1	1.047	4006623	921386	135	337	6825		M
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	1	1.000	224443	51415	145	362	355		M
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:23	0	1.054	4257763	1131774	45	112	25151		
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	0	1.000	1061102	290143	233	582	1245		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d

Injection Date: 20-Jul-2024 06:13:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

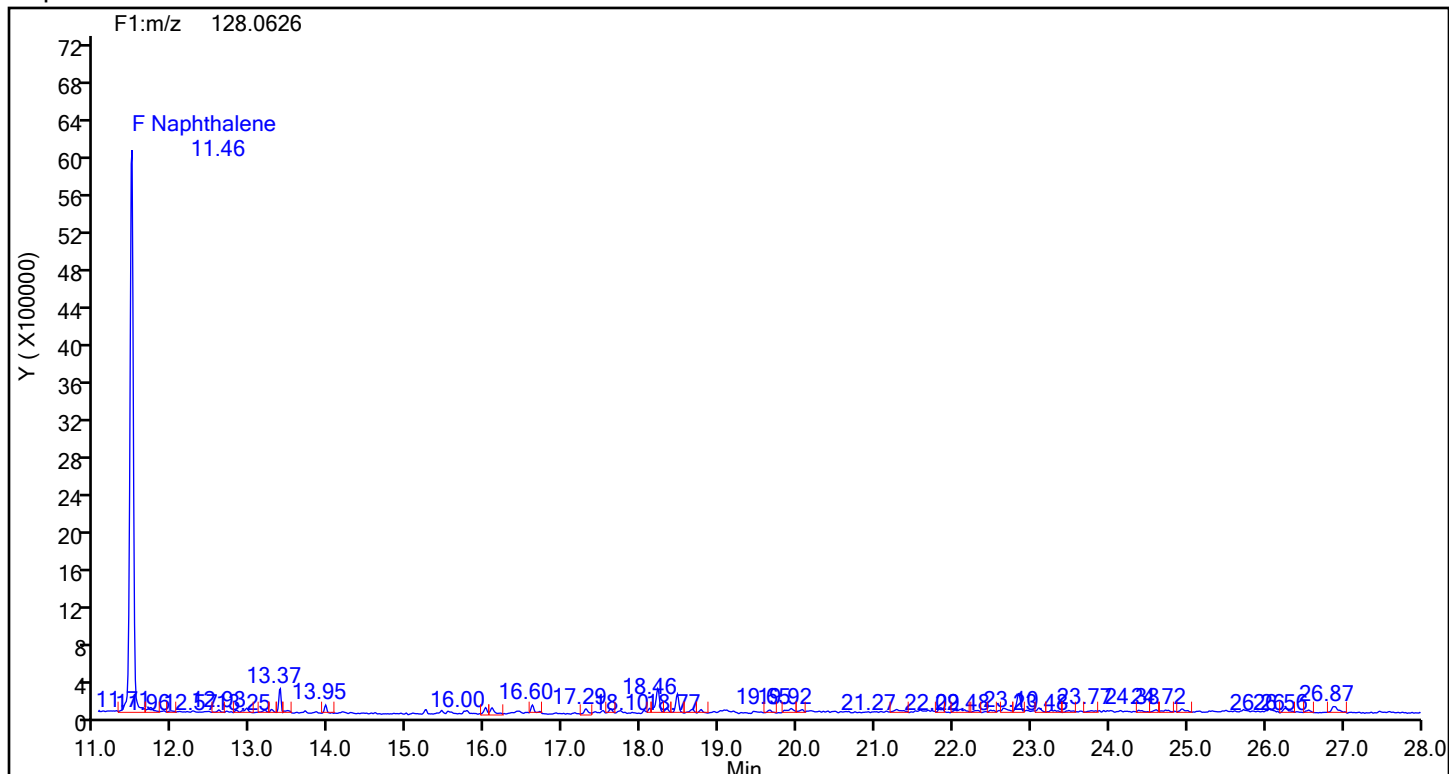
Worklist#: 88999

Sample Line#: 7

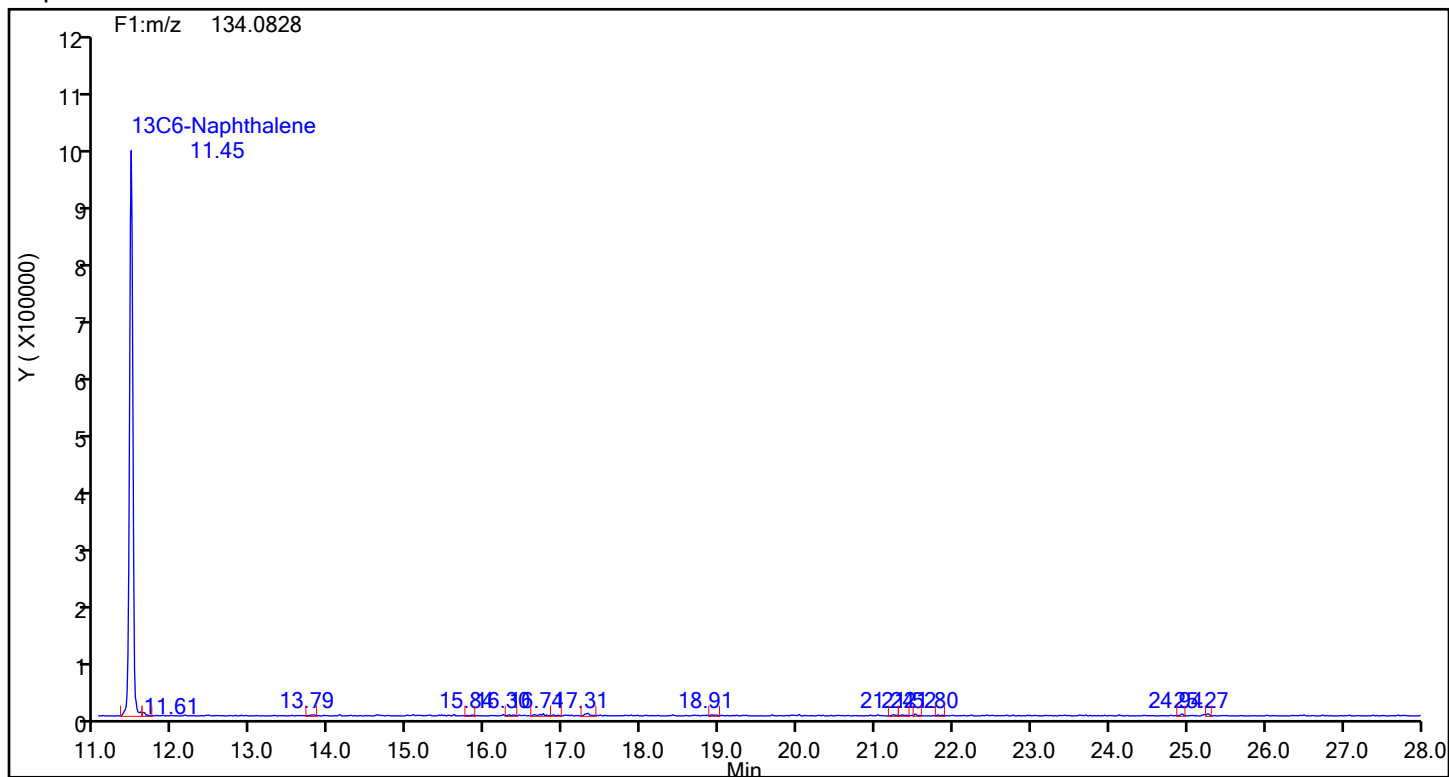
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Column Dia: 0.25 mm

Naphthalene



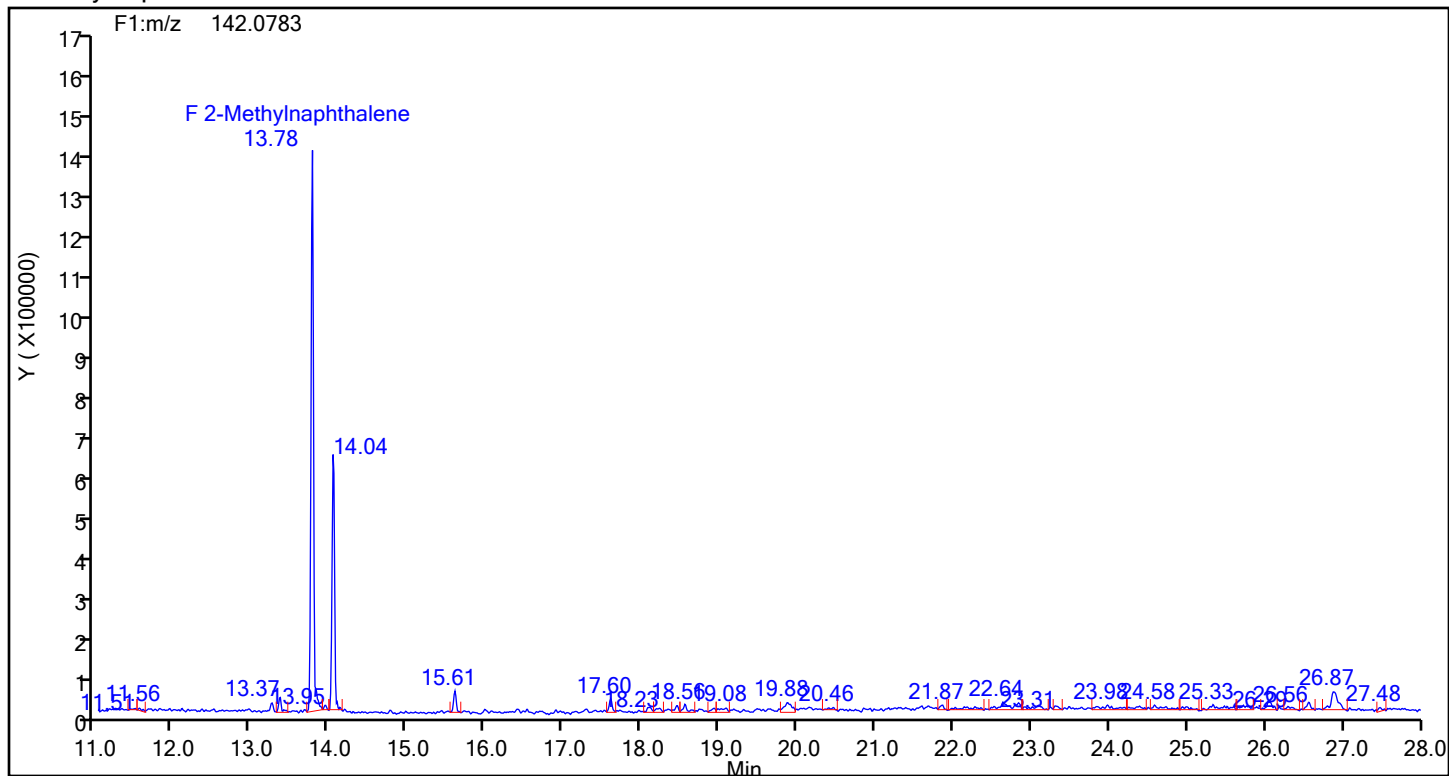
Naphthalene Standards



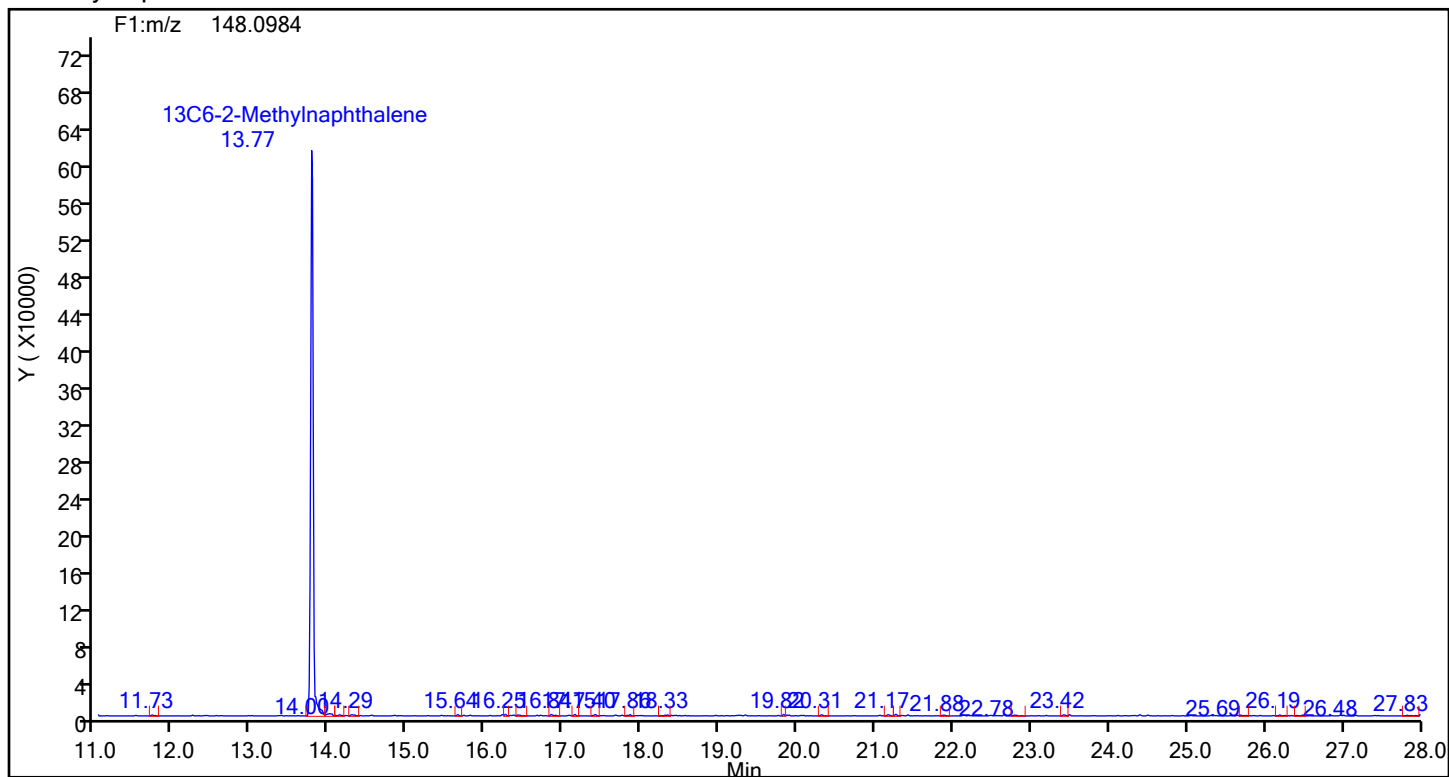
Eurofins Knoxville

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Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



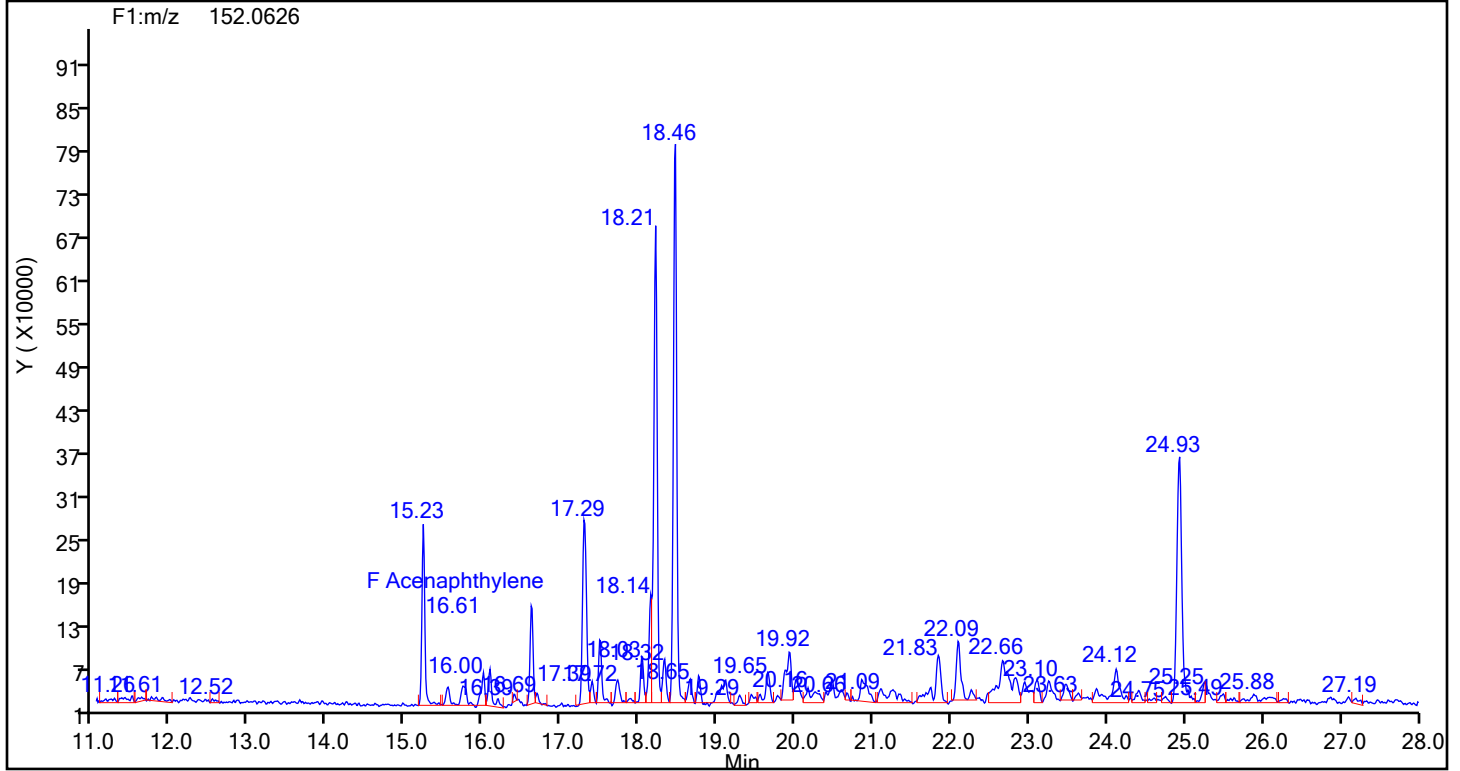
2-Methylnaphthalene Standards



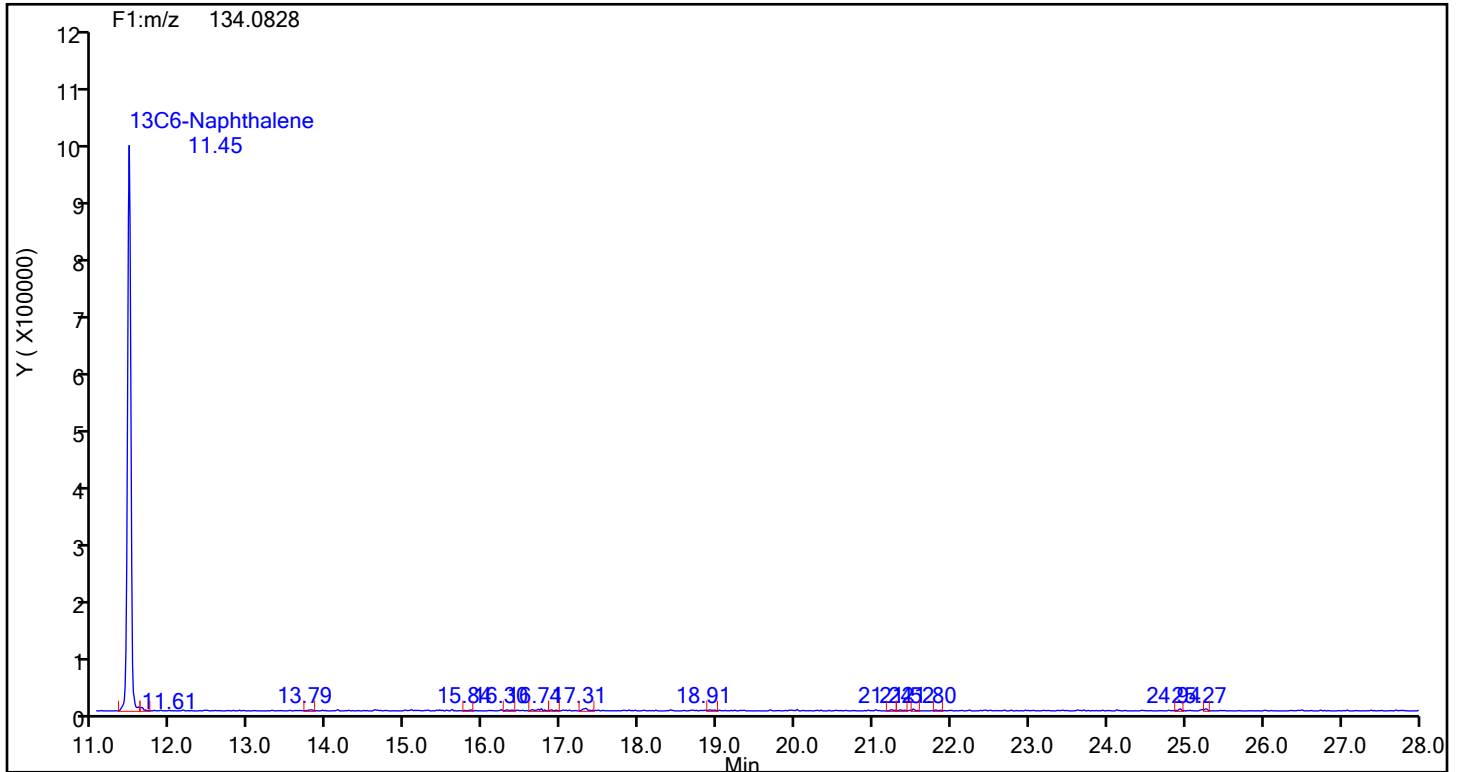
Eurofins Knoxville

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Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



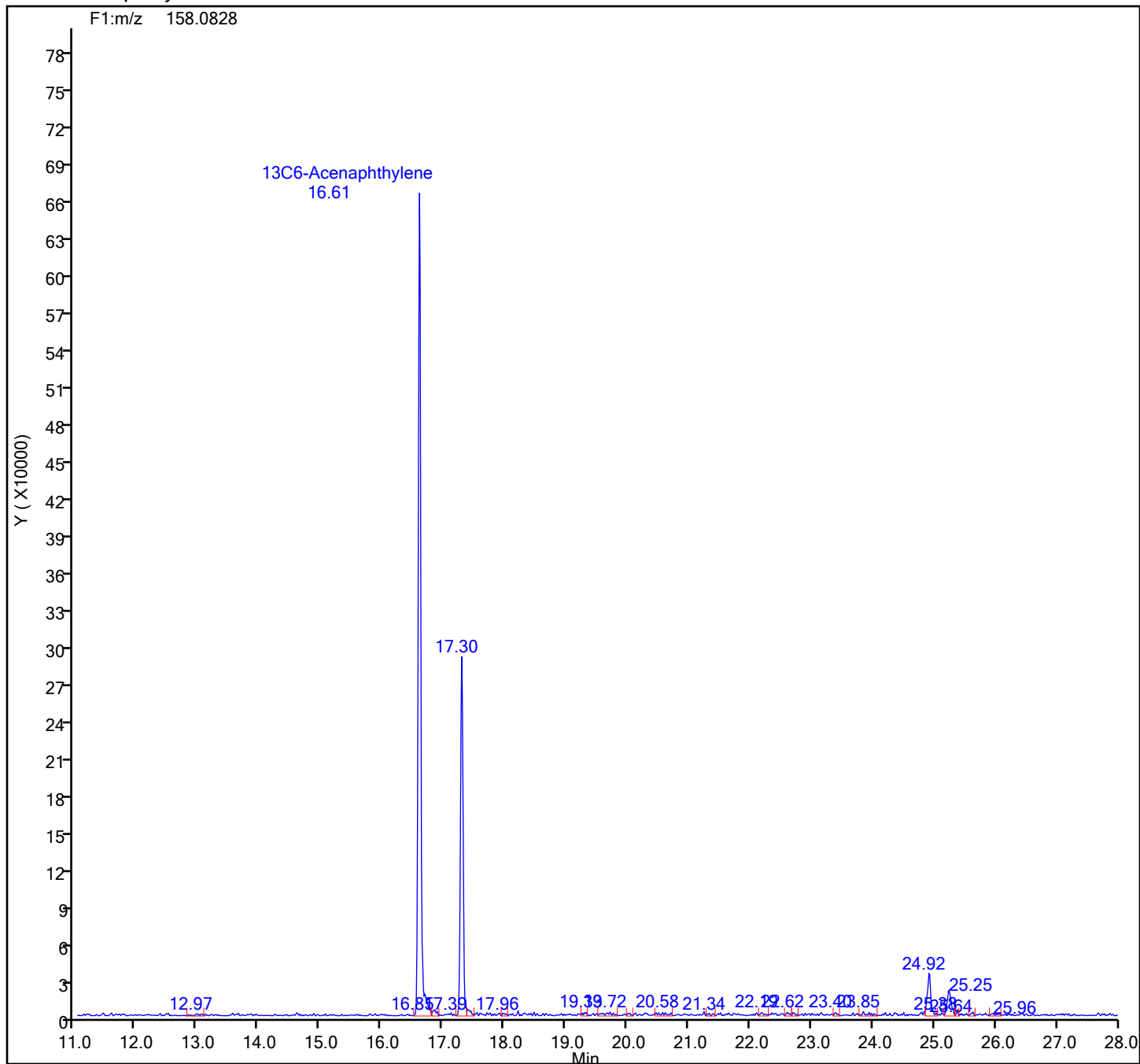
Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

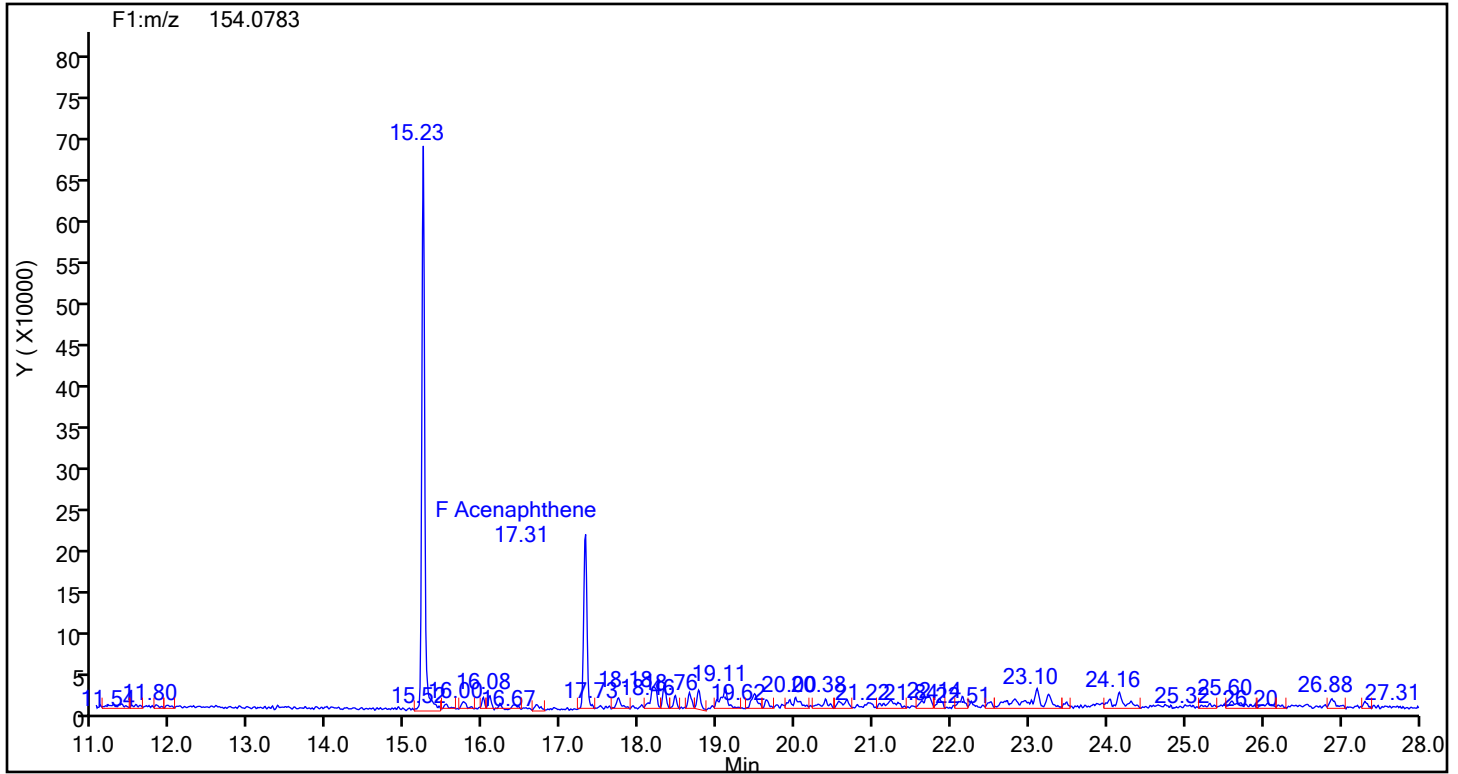
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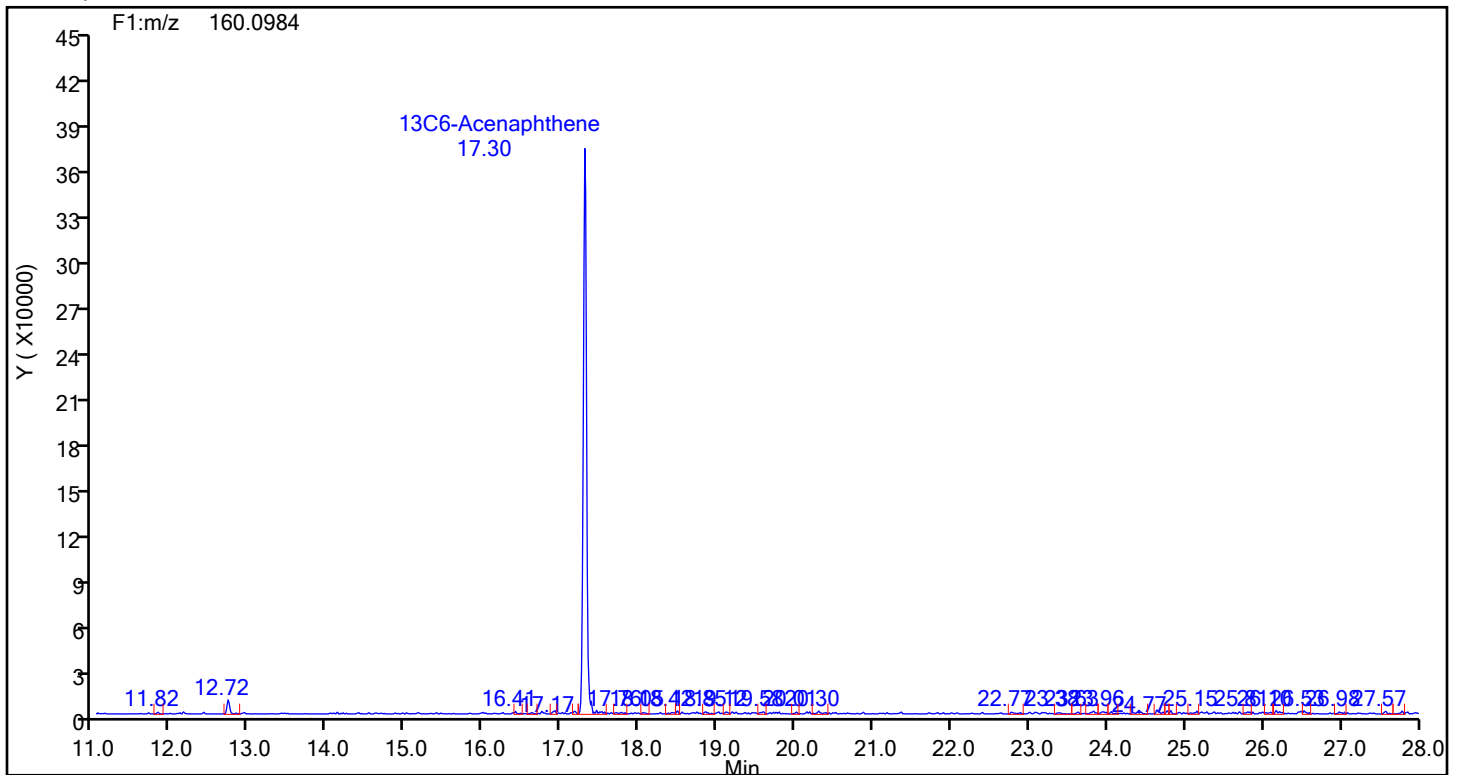
Eurofins Knoxville

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Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



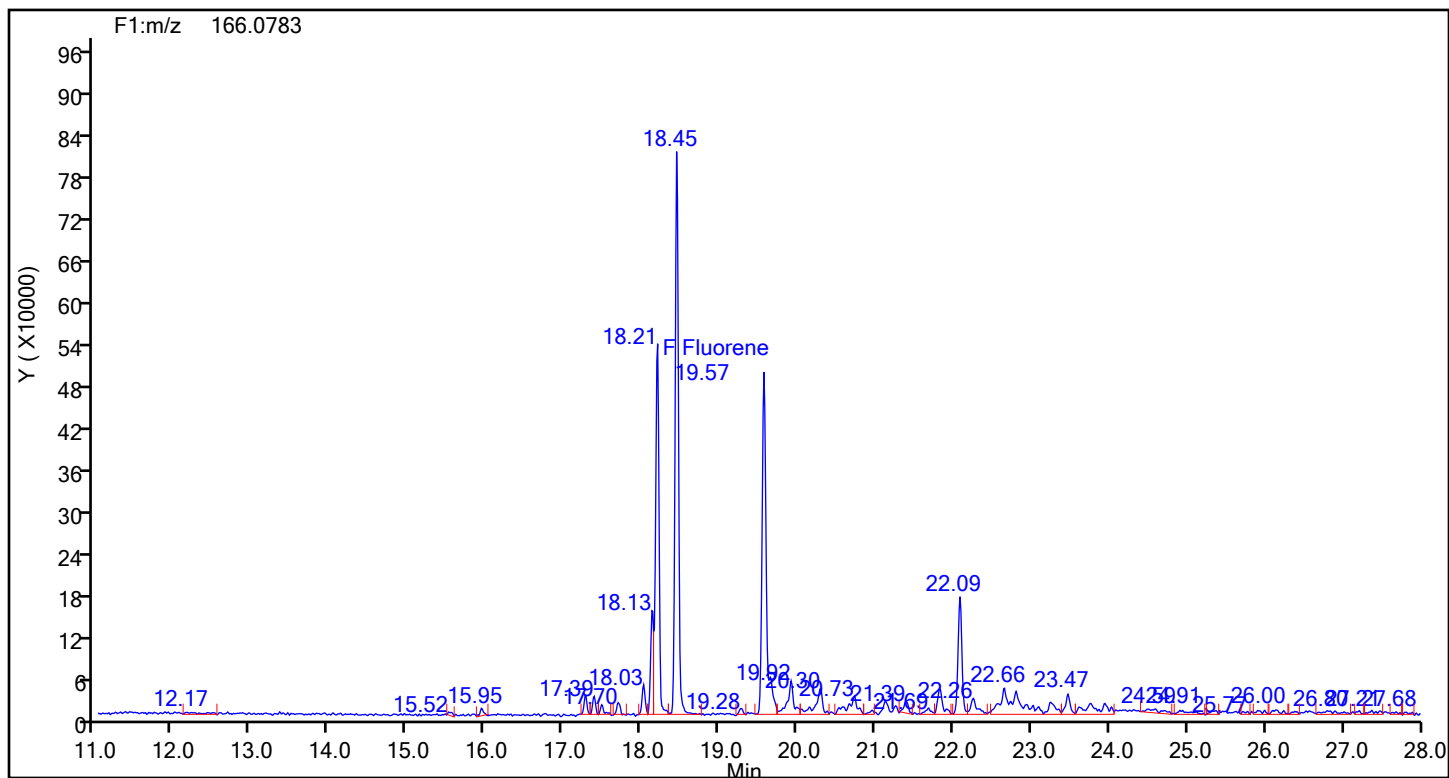
Acenaphthene Standards



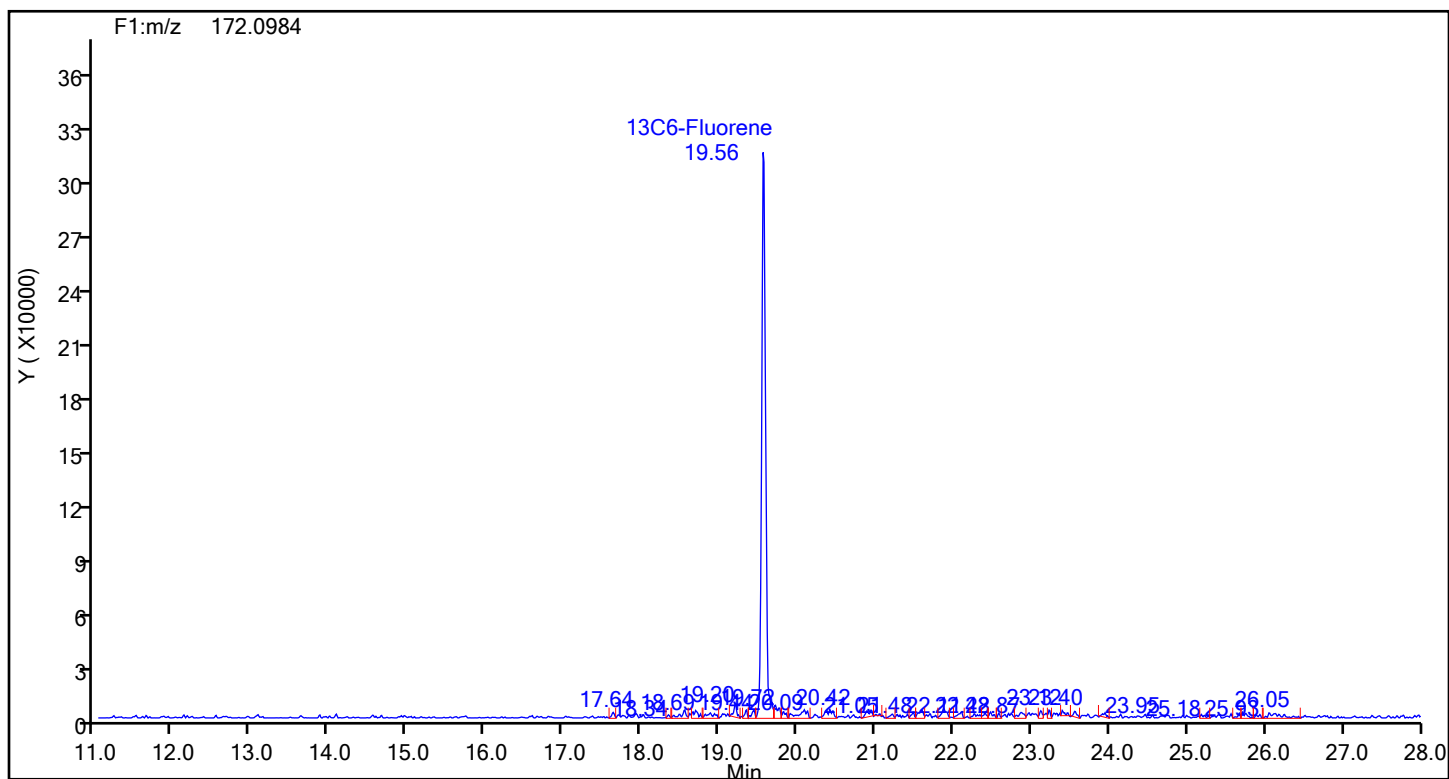
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



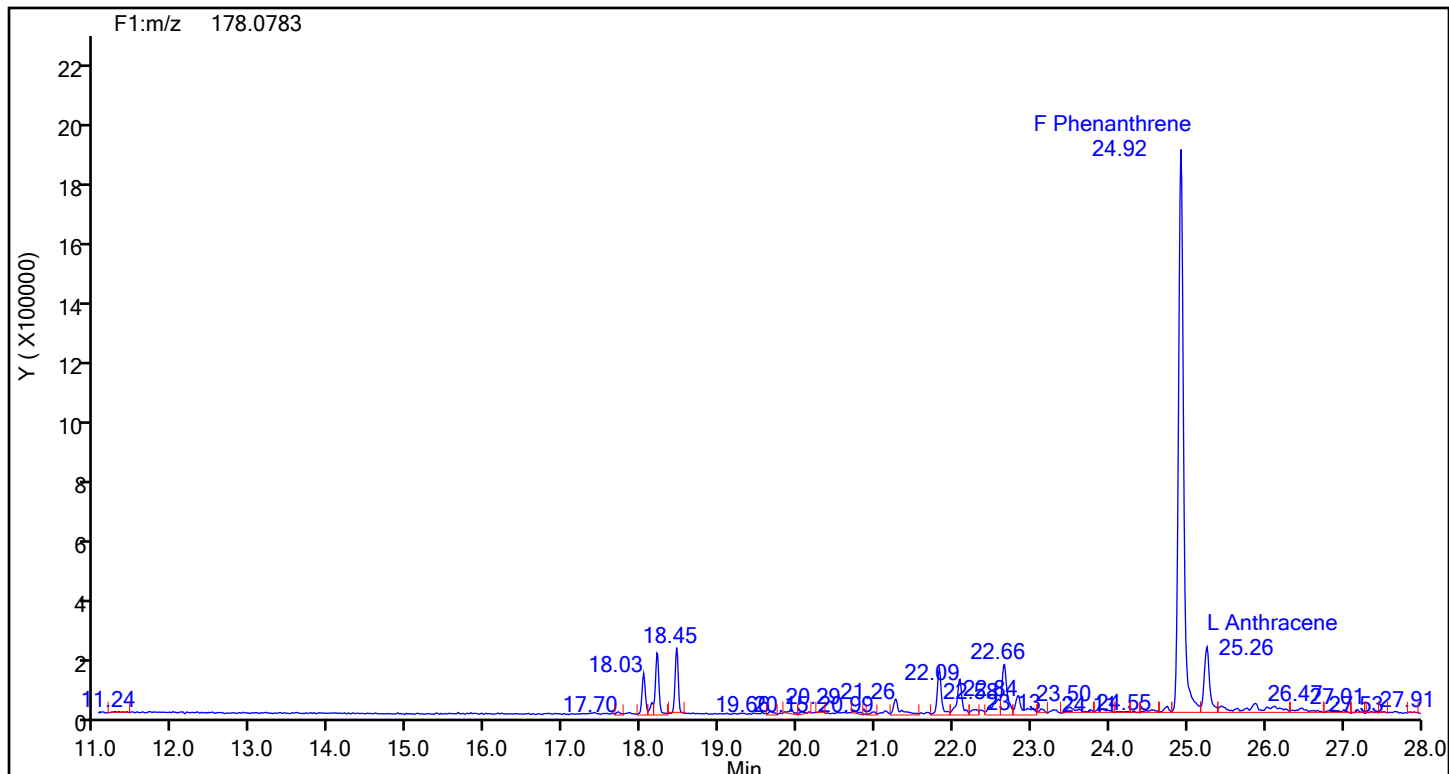
Fluorene Standards



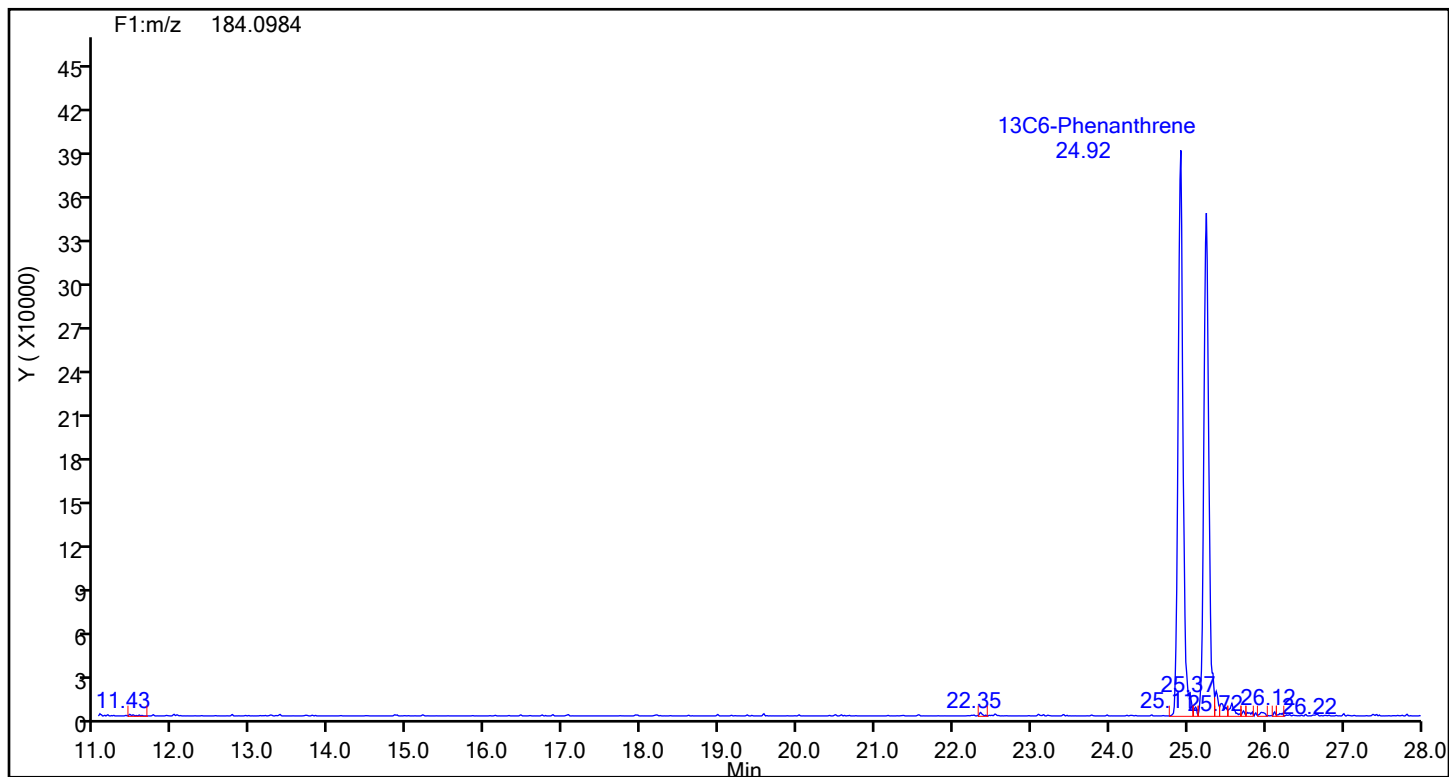
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

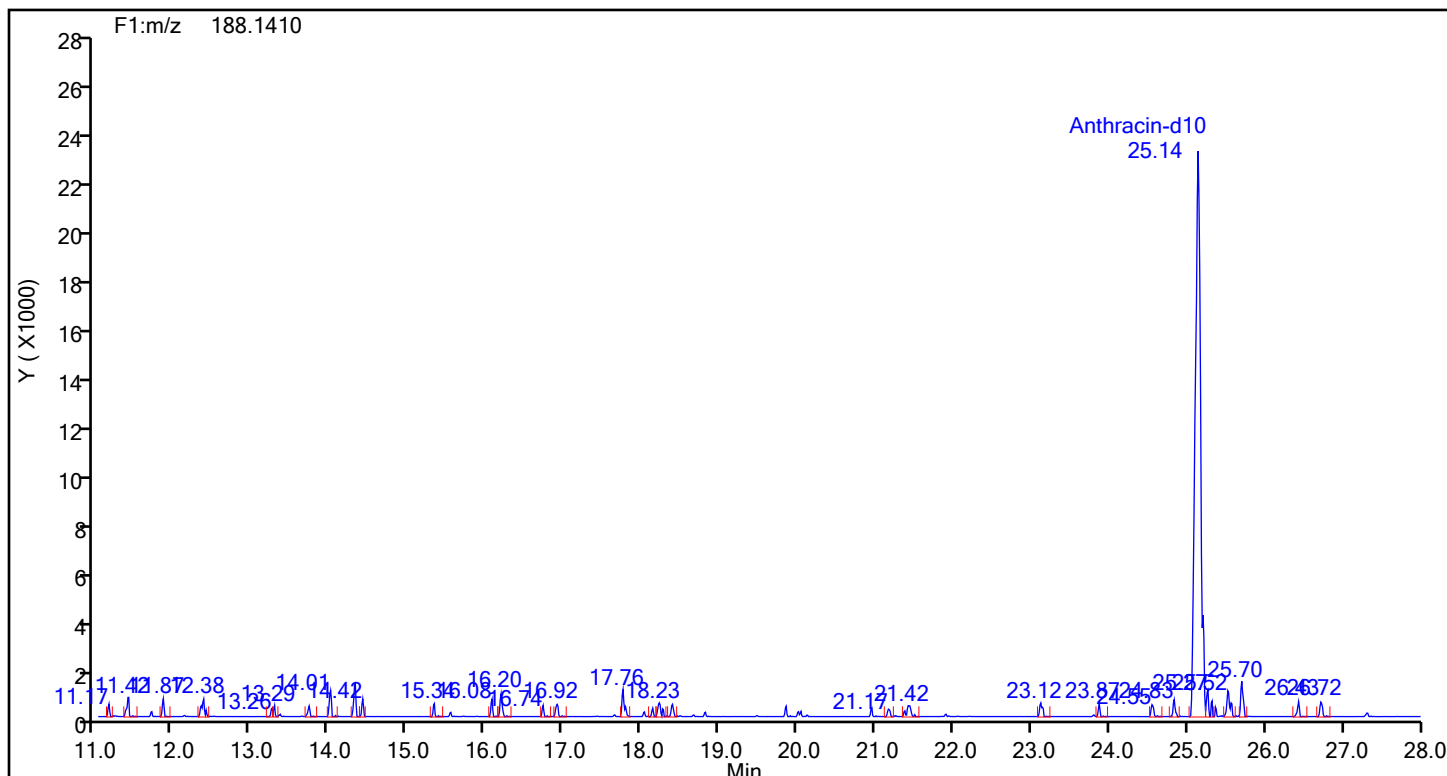


Phenanthrene Standards

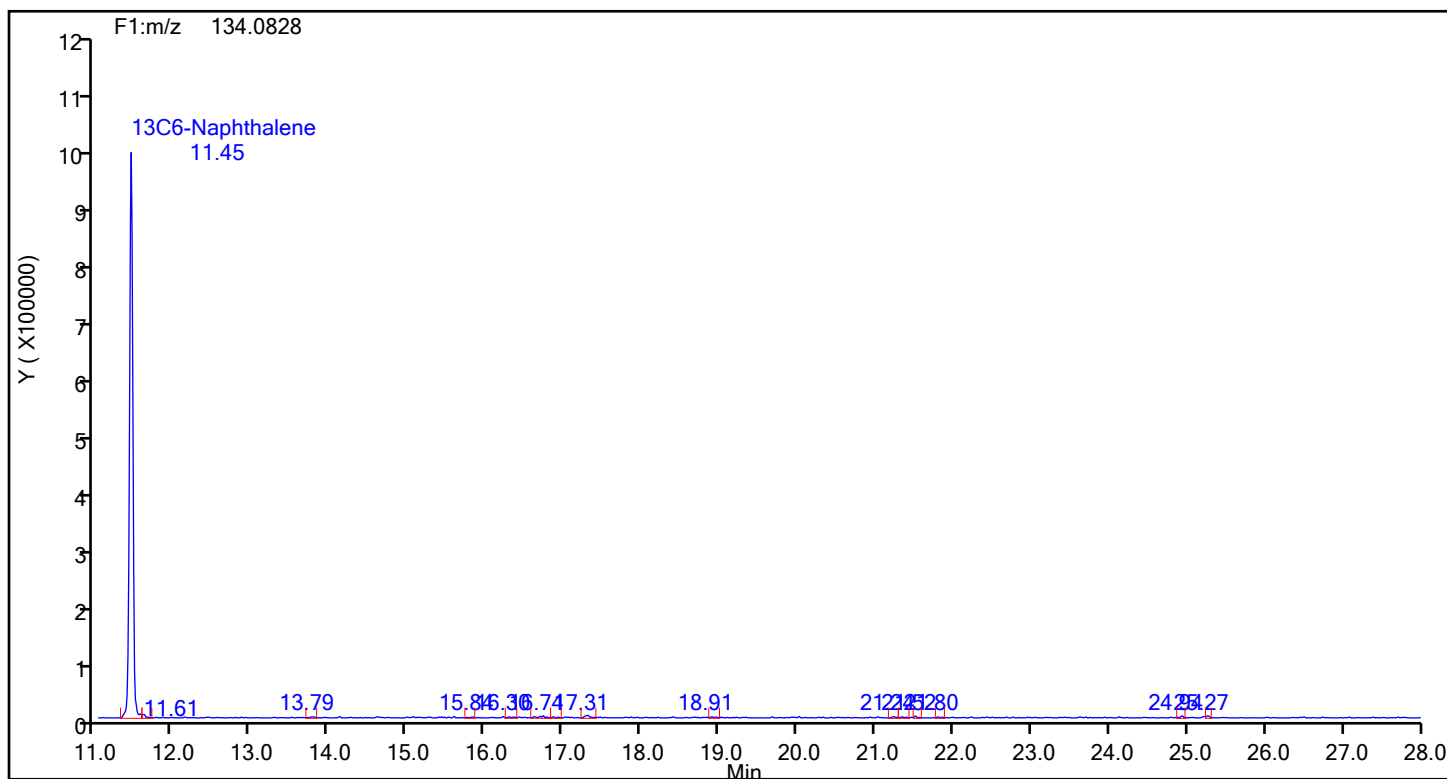


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



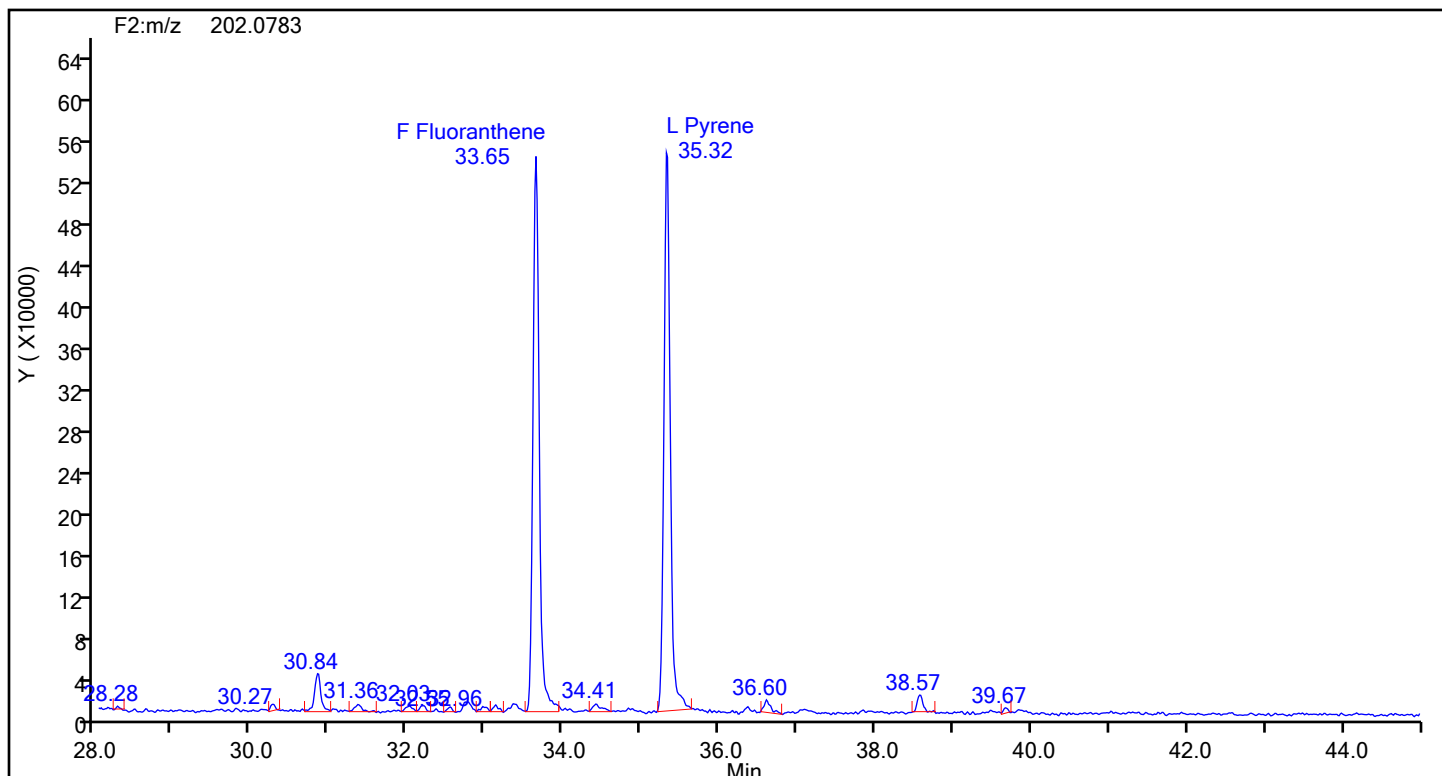
Anthracin-d10 Standards



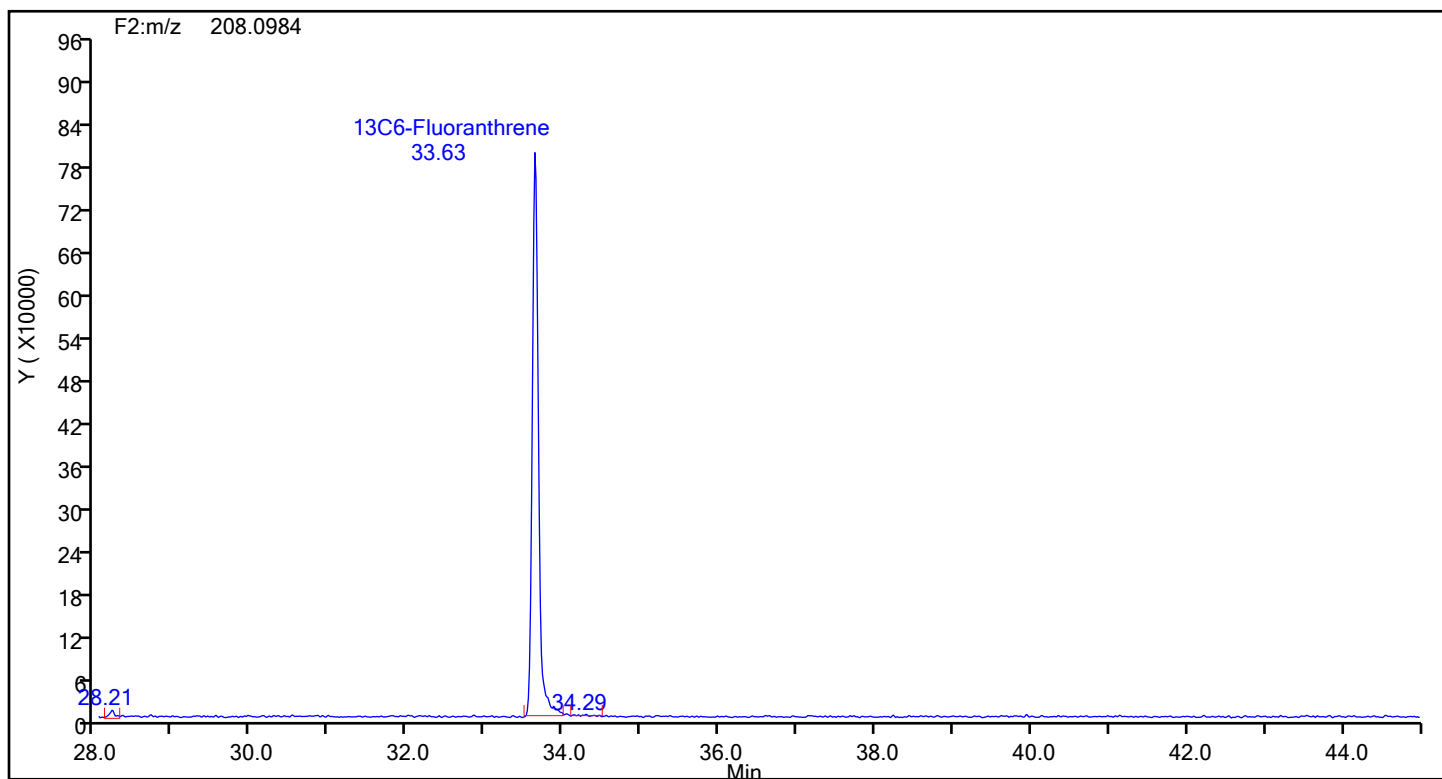
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



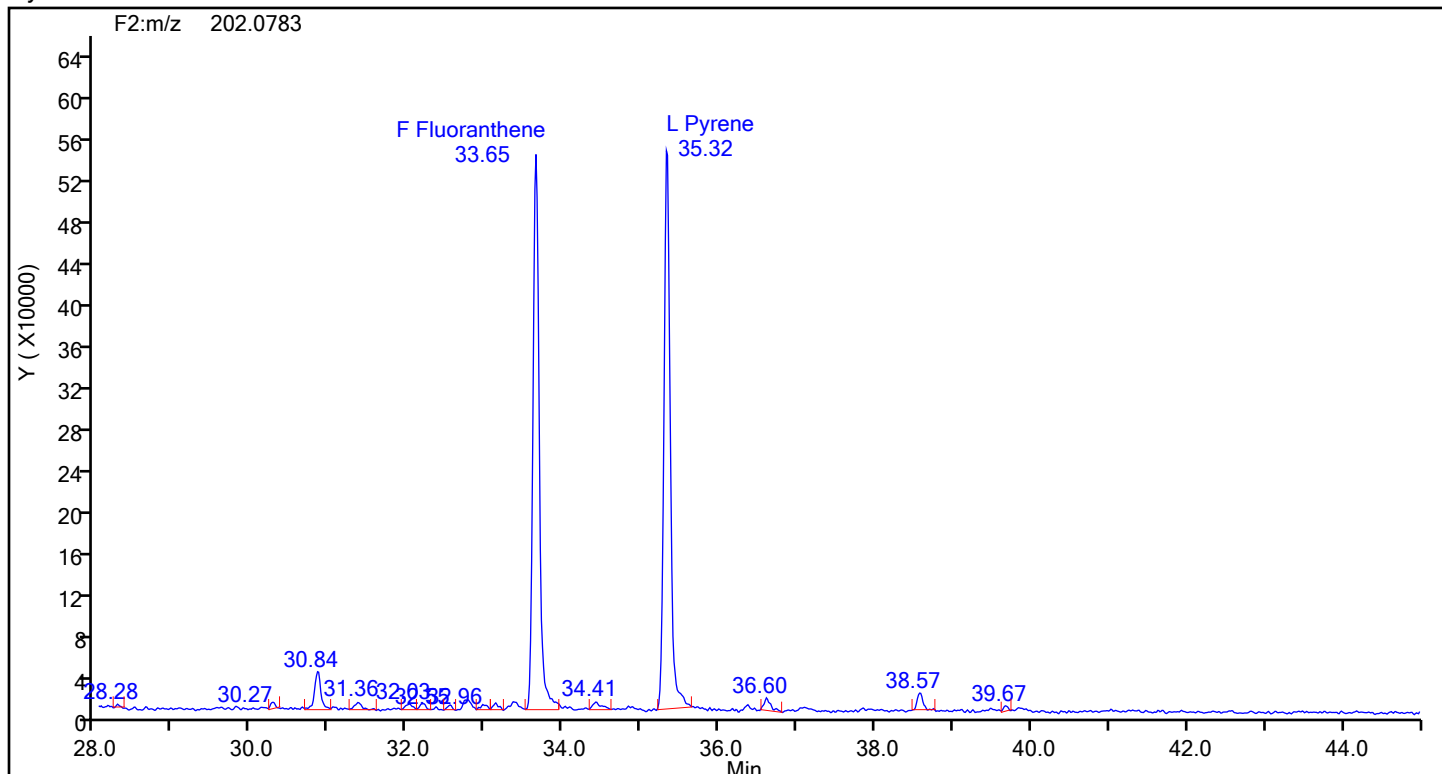
Fluoranthene Standards



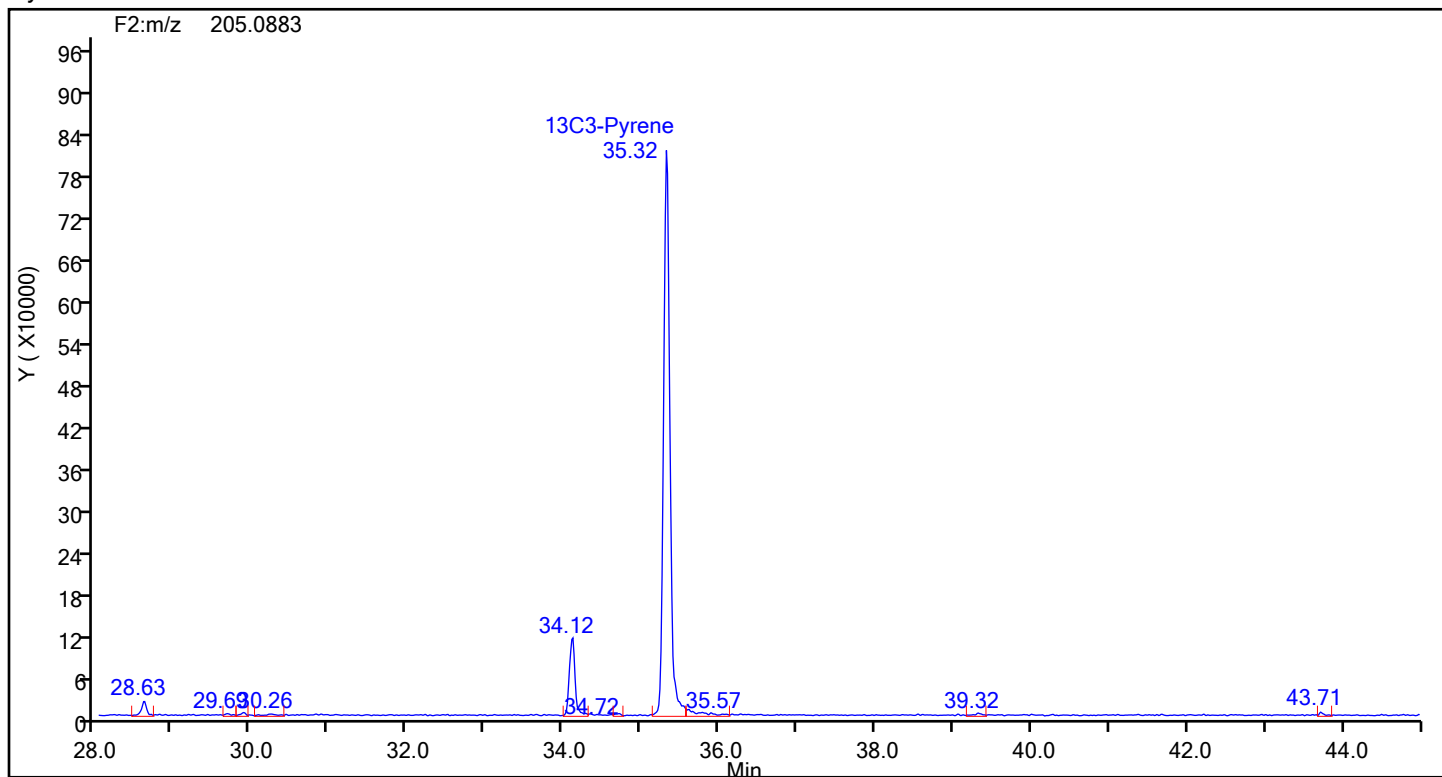
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



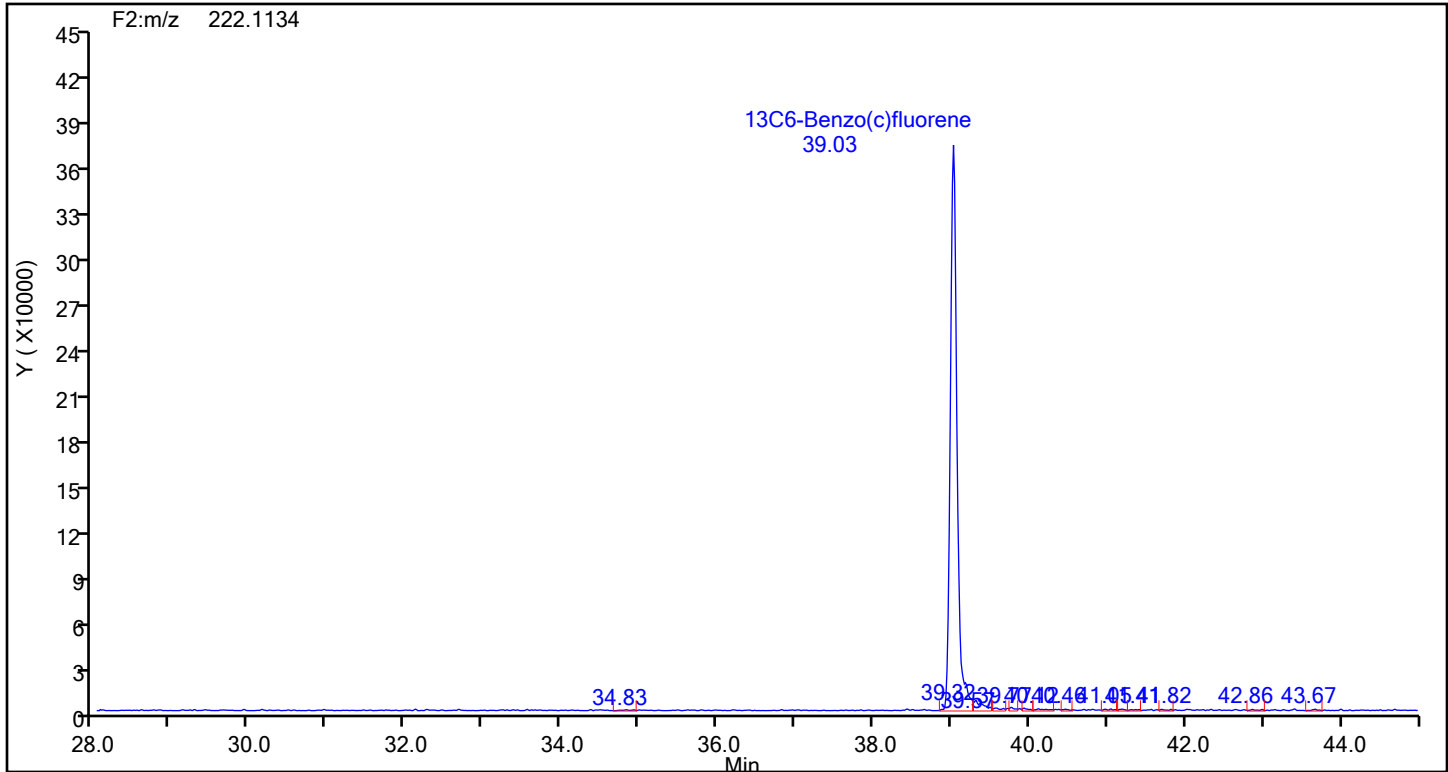
Pyrene Standards



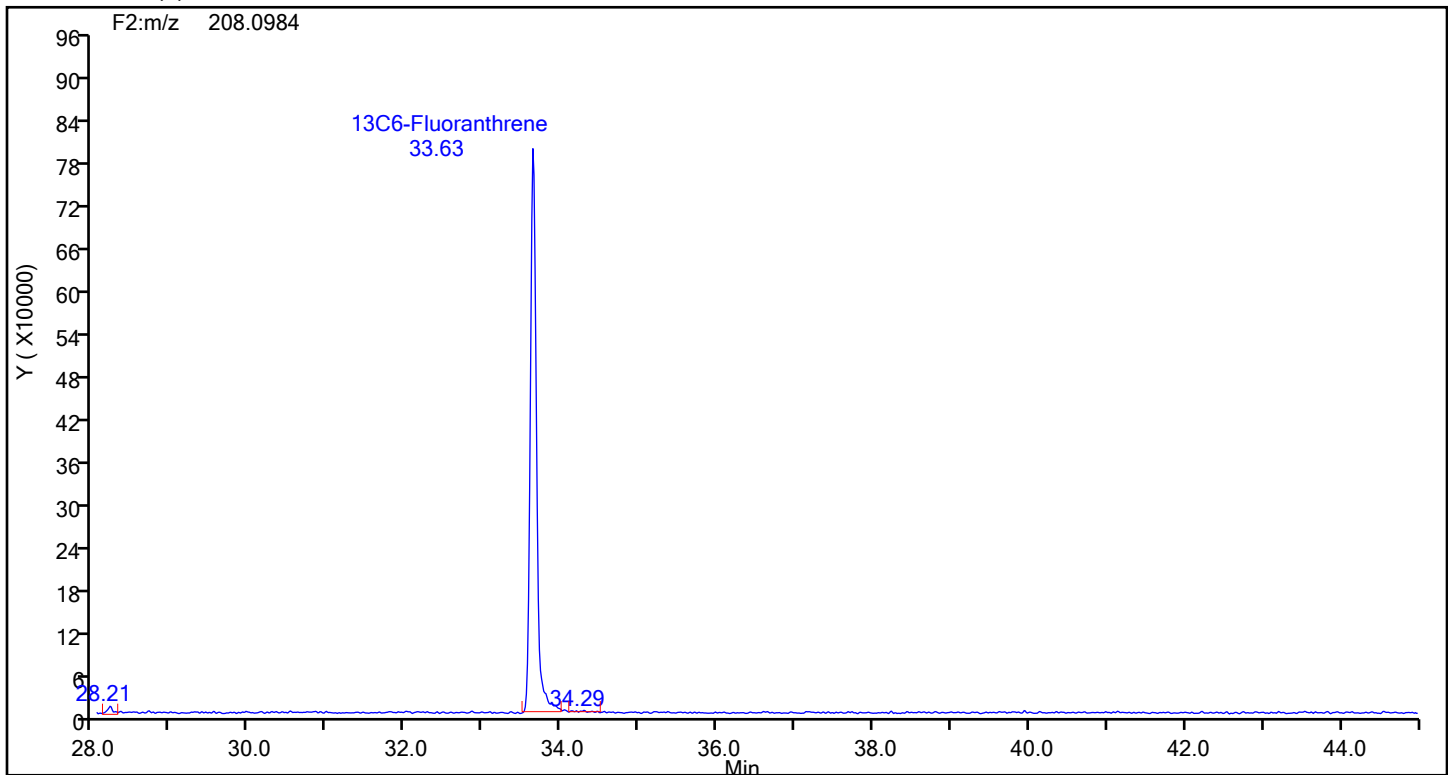
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



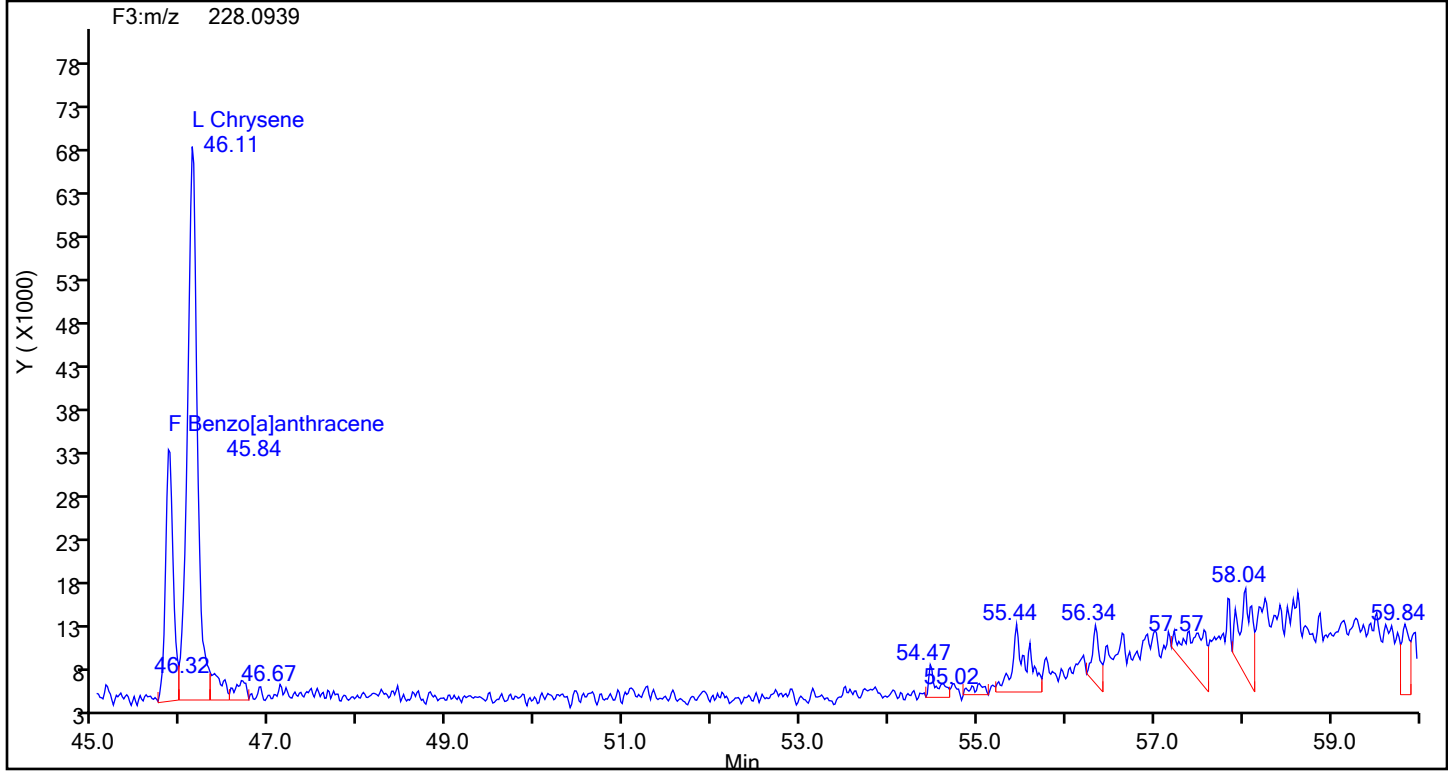
13C6-Benzo(c)fluorene Standards



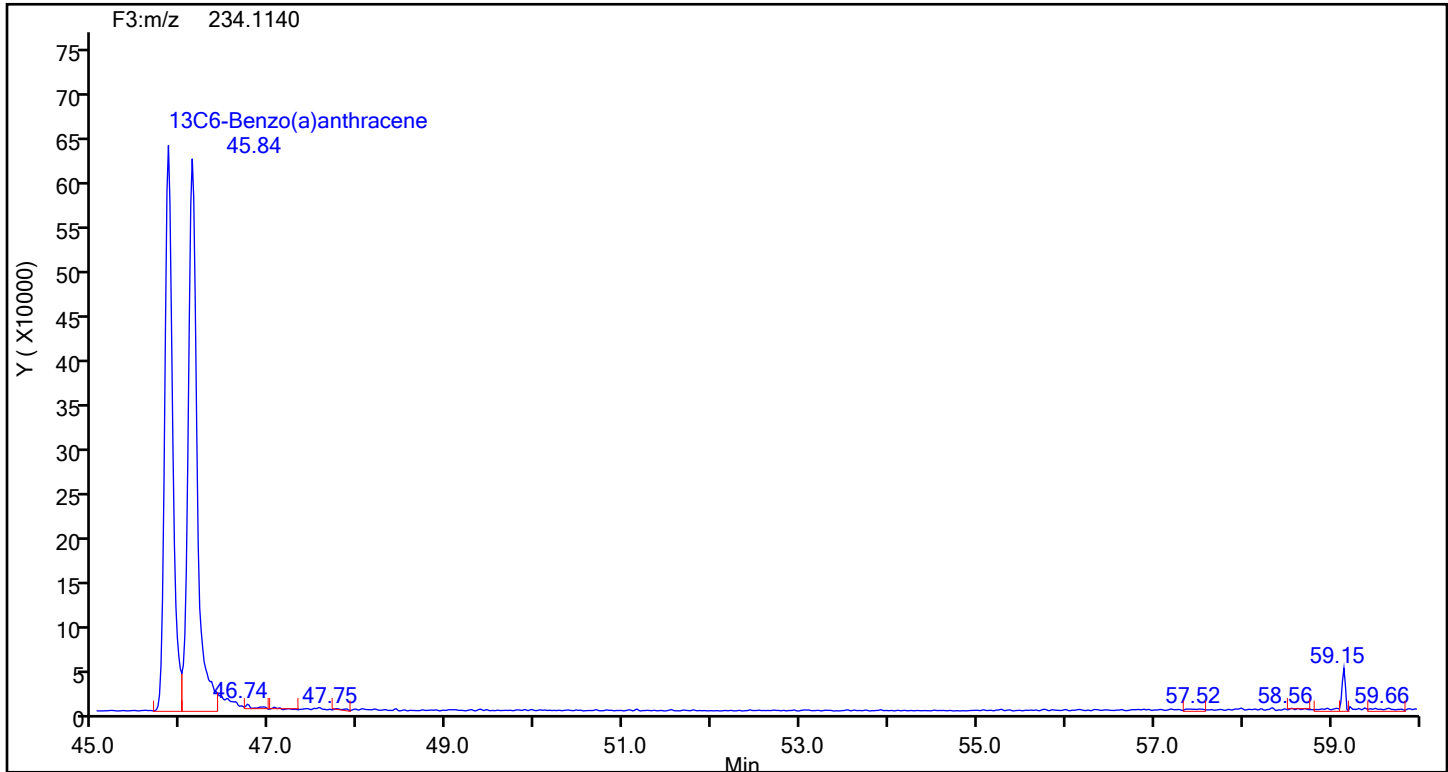
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

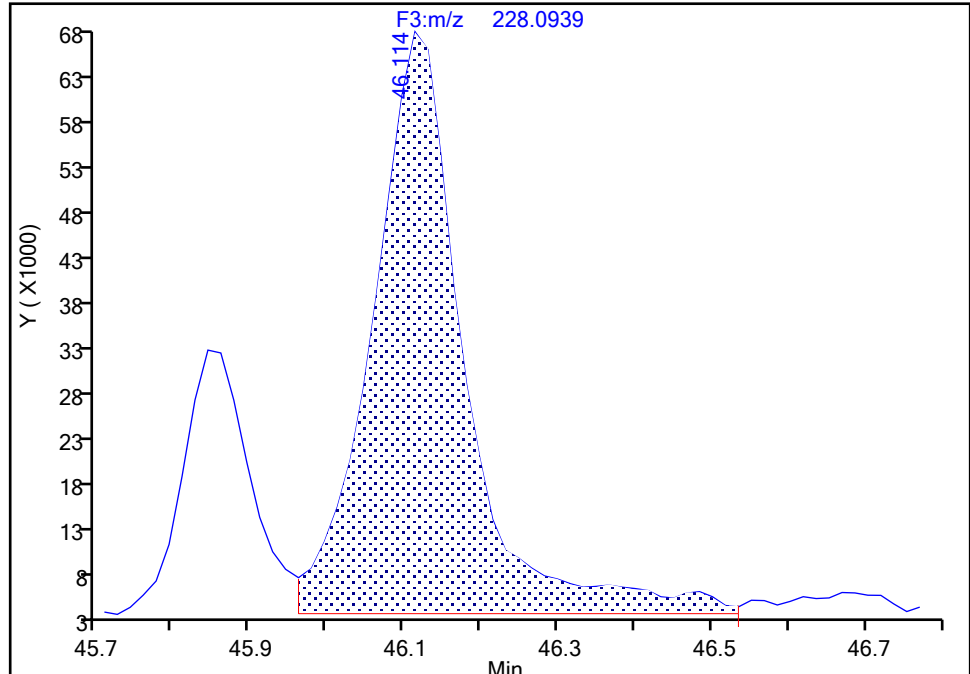
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Chrysene, CAS: 218-01-9

Signal: 1

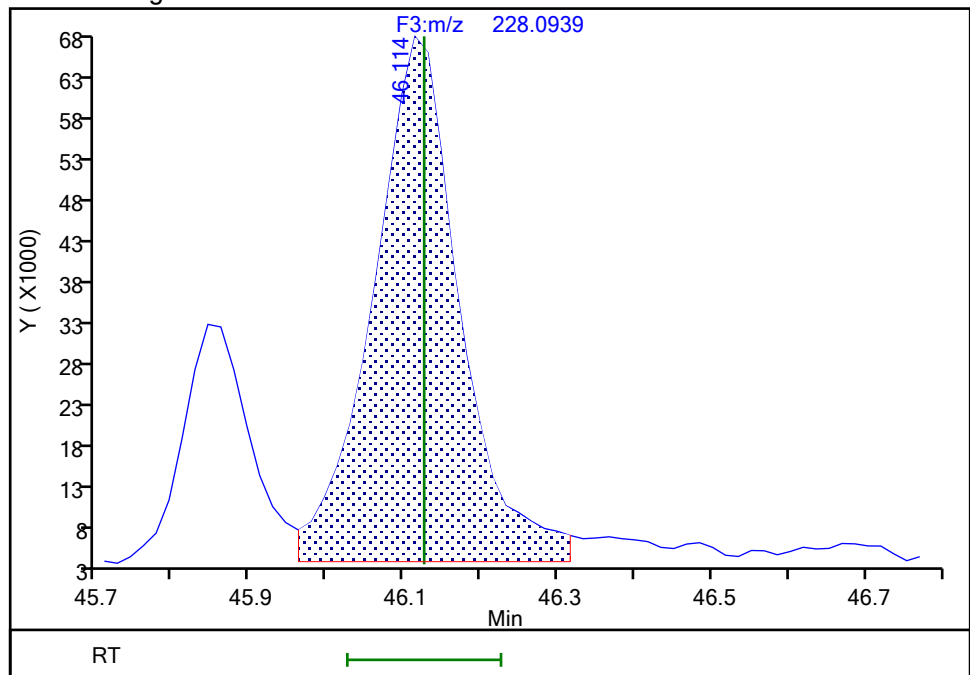
RT: 46.11
Area: 534370
Amount: 1.234472
Amount Units: pg/ul

Processing Integration Results



RT: 46.11
Area: 507136
Amount: 1.171558
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:26:27 -04:00:00 (UTC)

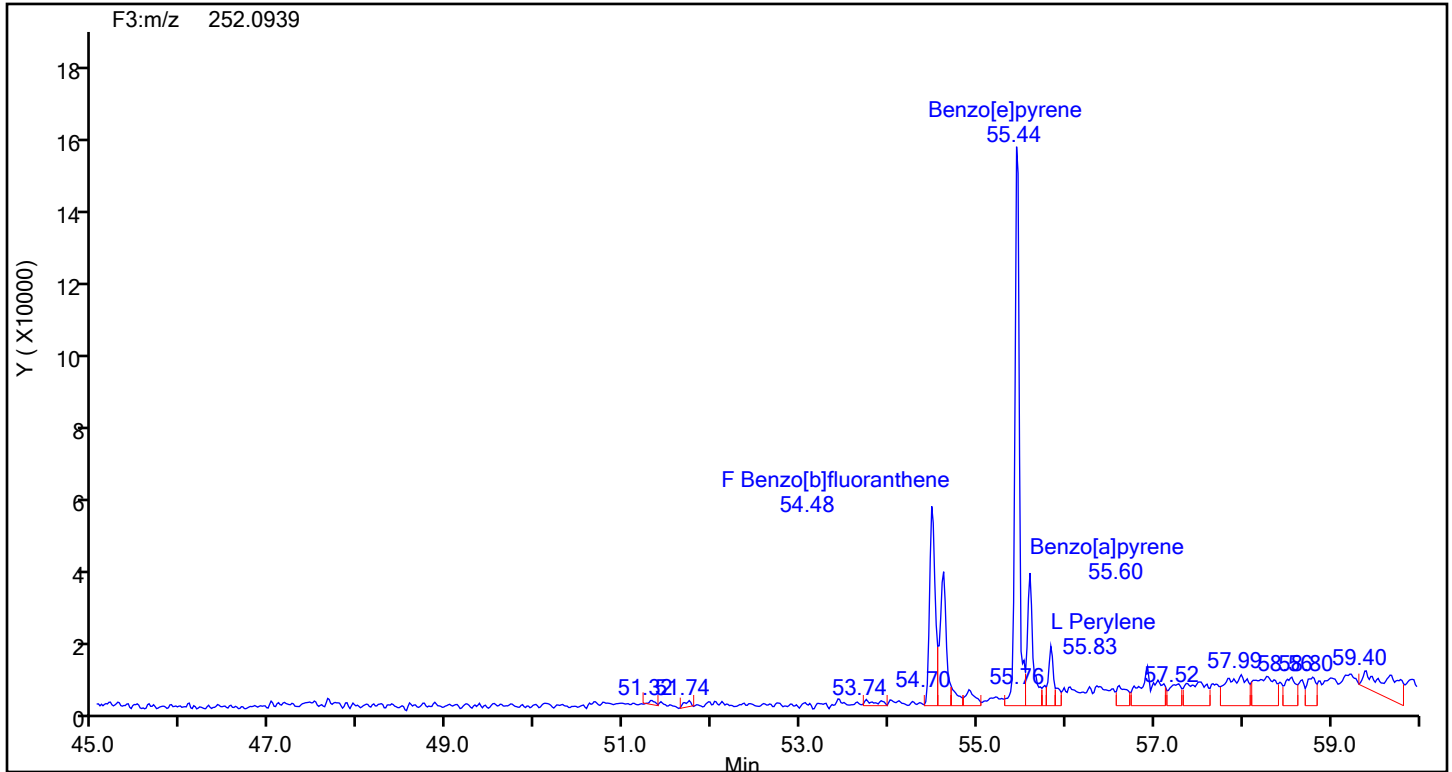
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

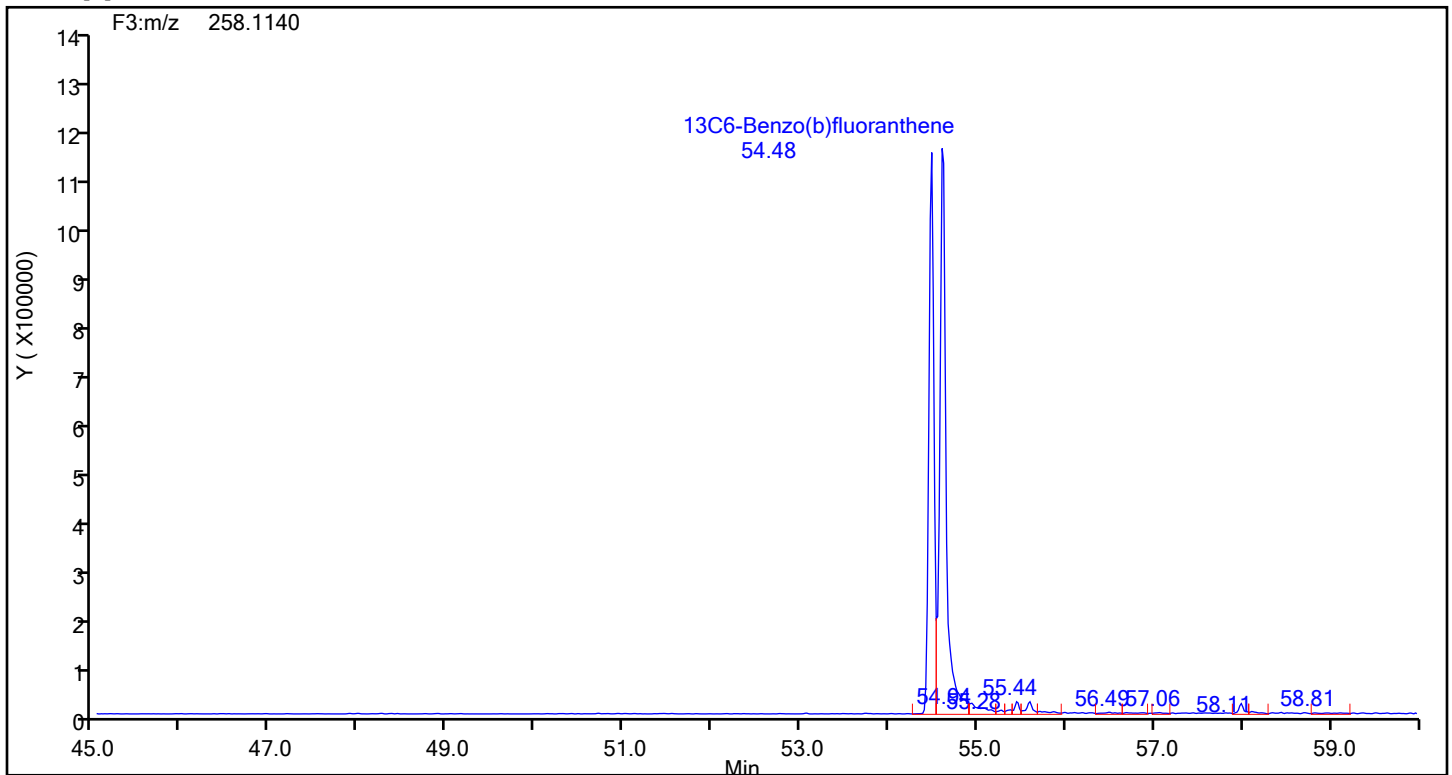
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

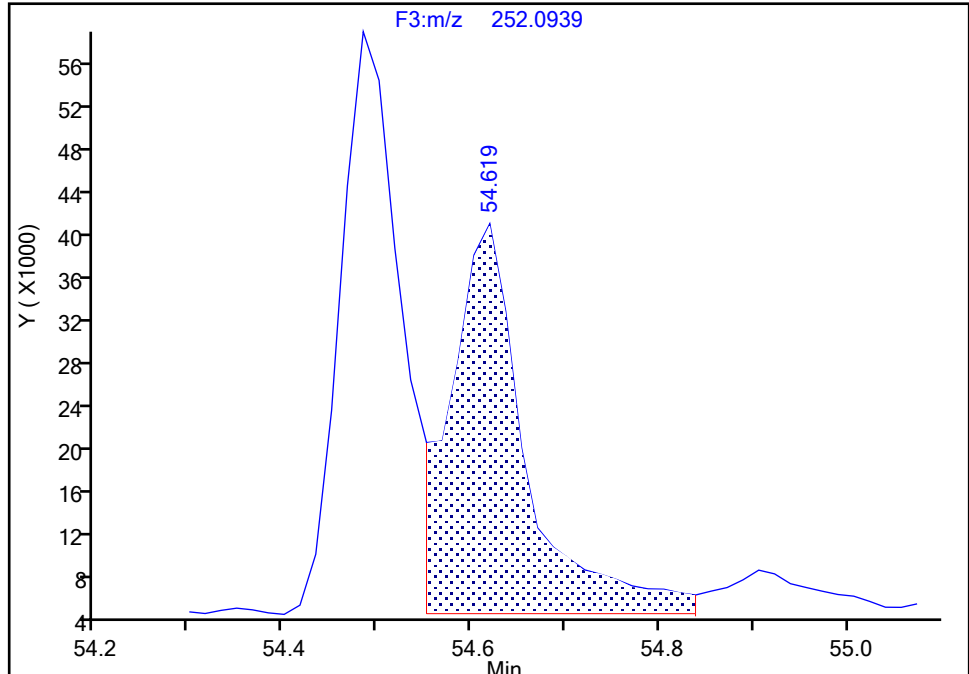
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

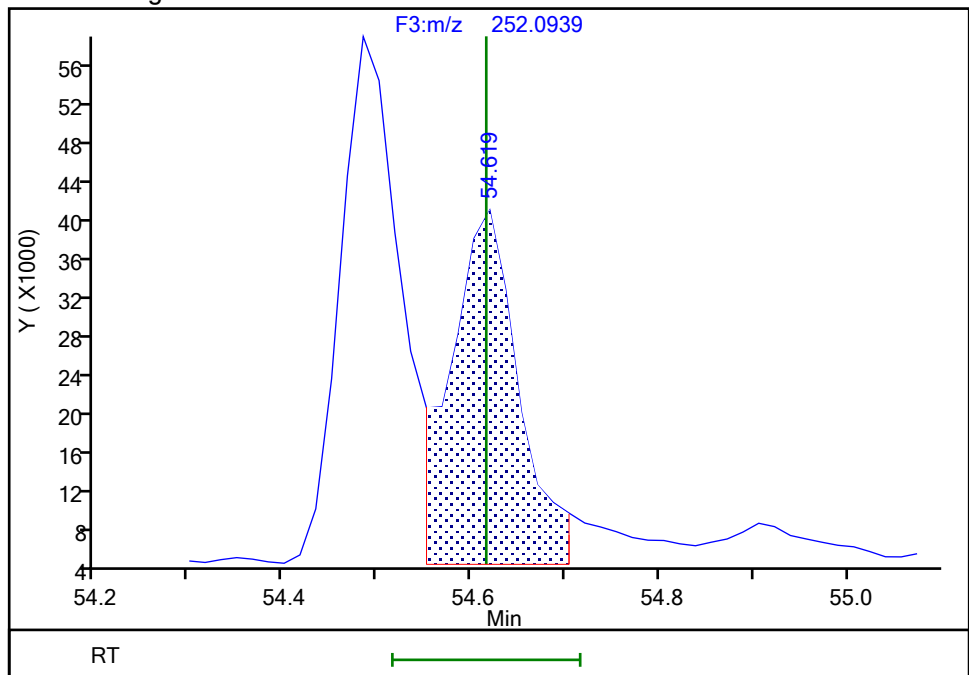
RT: 54.62
Area: 205396
Amount: 0.321523
Amount Units: pg/ul

Processing Integration Results



RT: 54.62
Area: 191766
Amount: 0.300187
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:27:05 -04:00:00 (UTC)

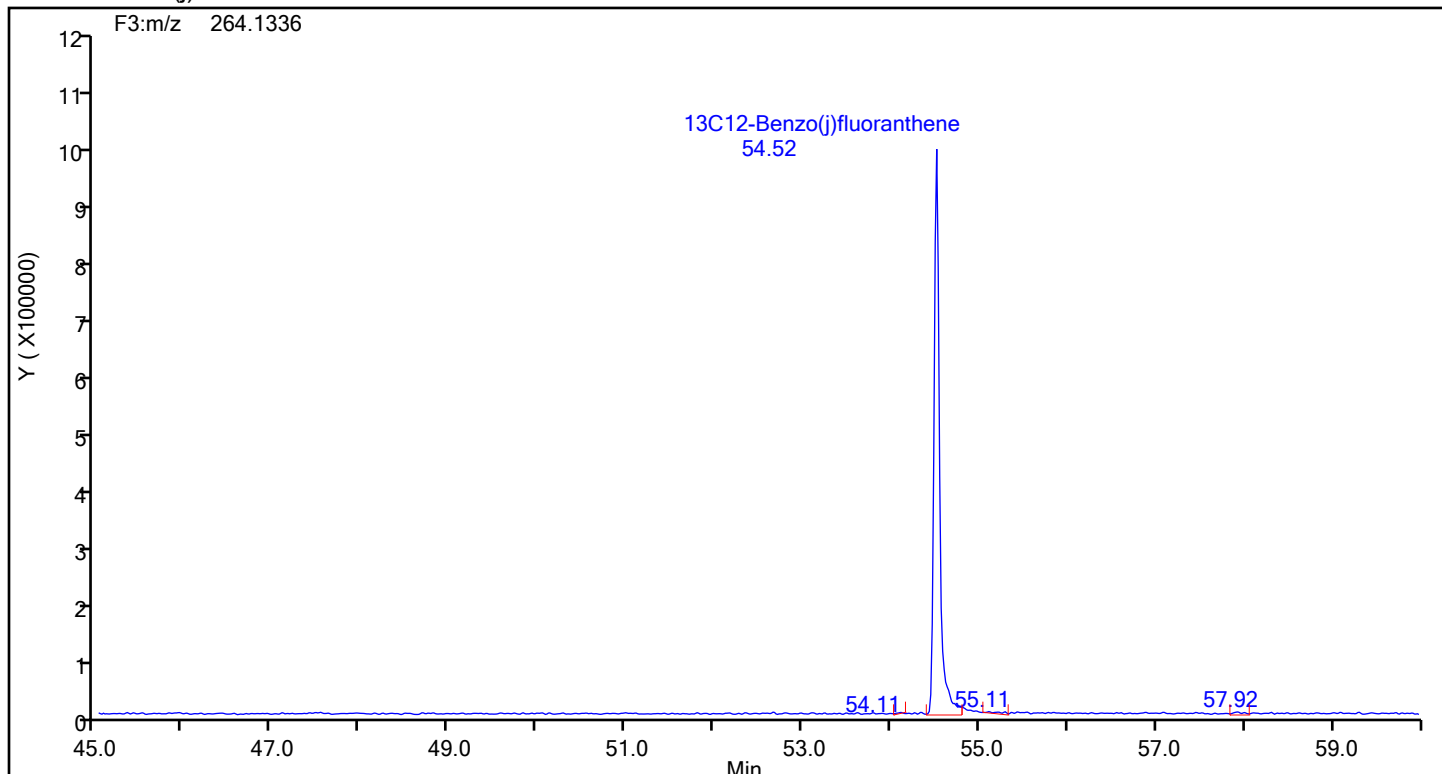
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

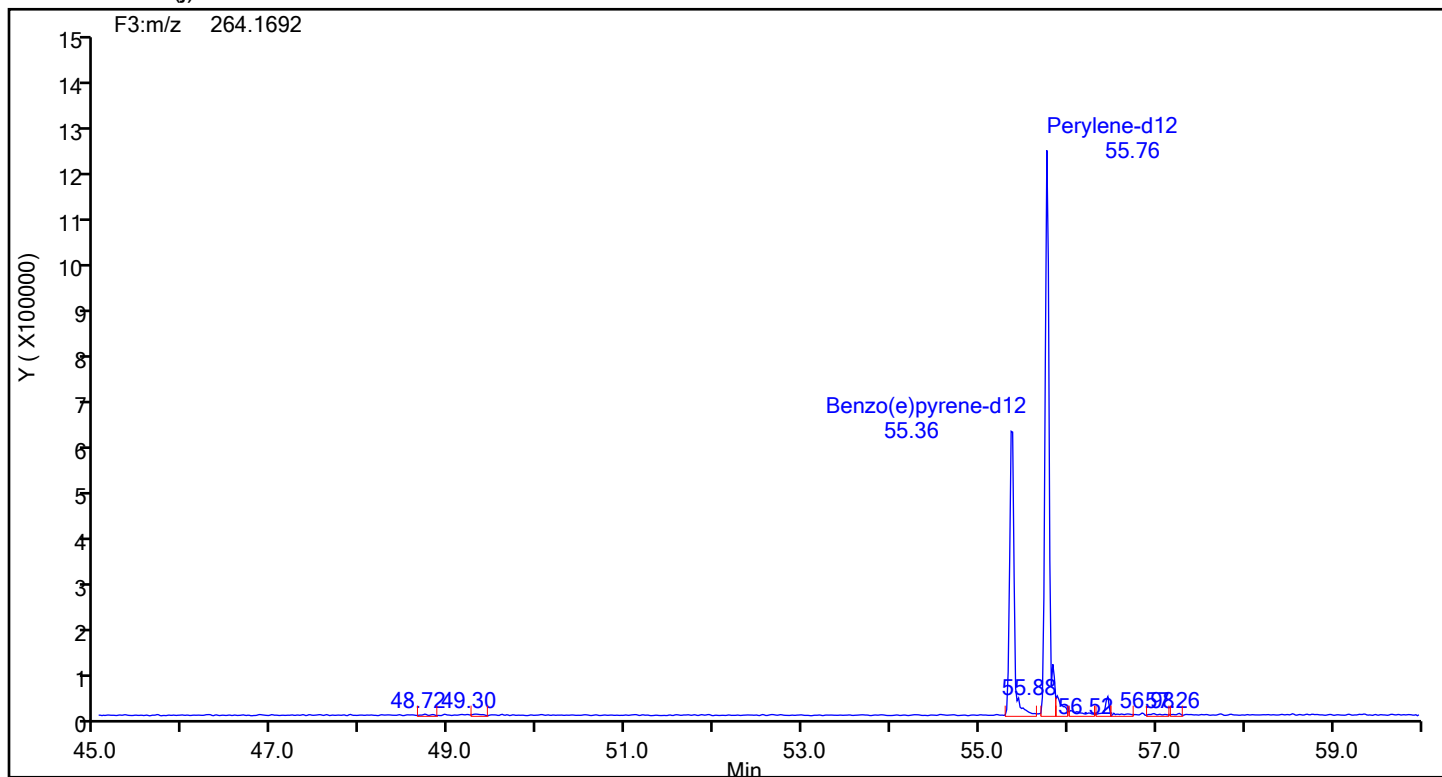
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

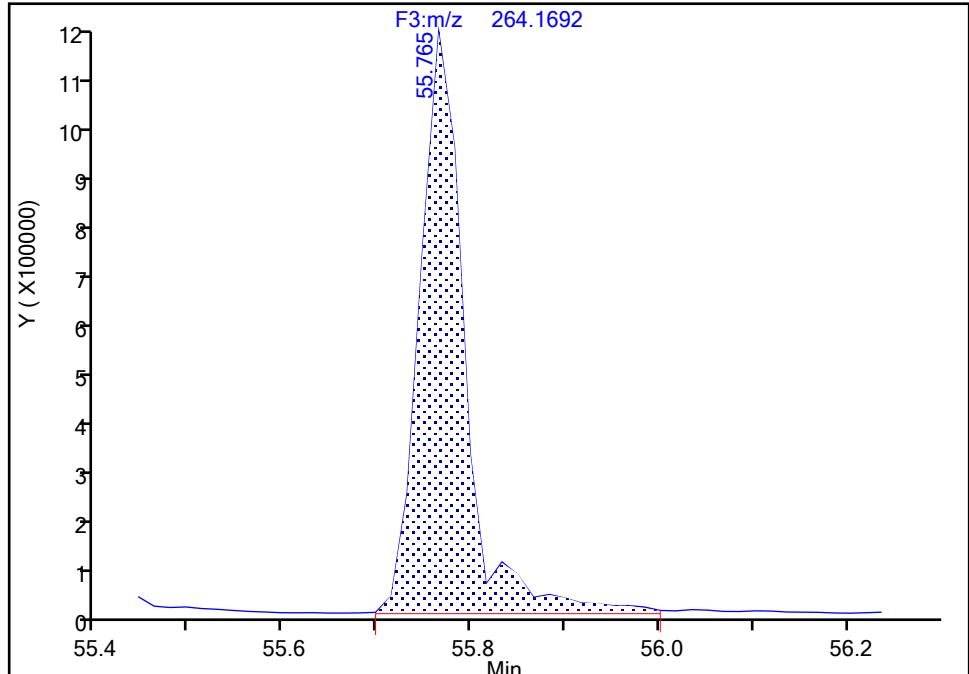
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

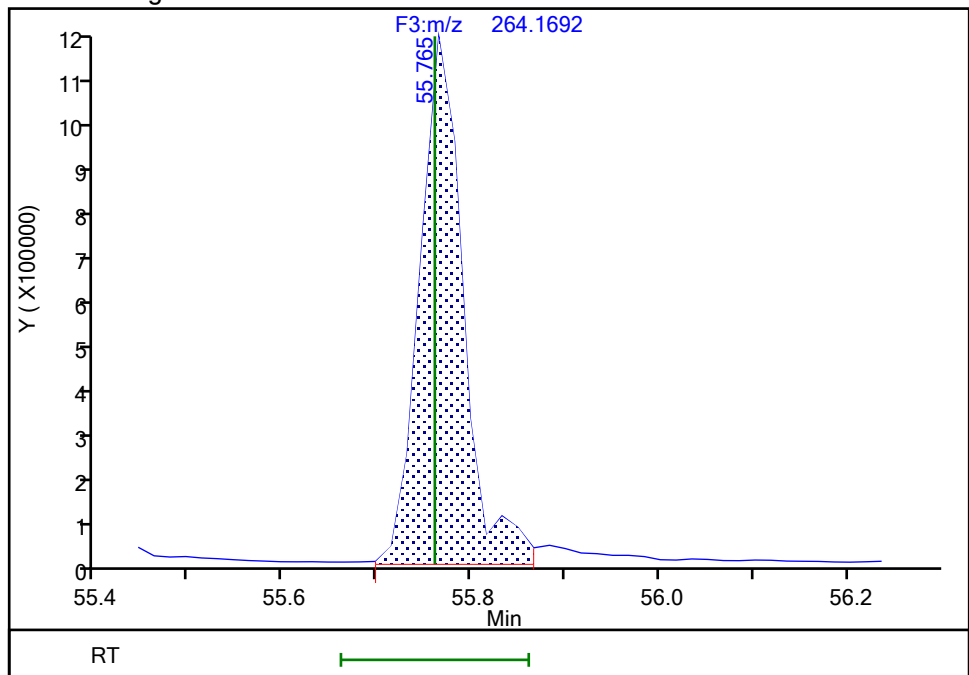
RT: 55.76
Area: 3999509
Amount: 7.771237
Amount Units: pg/ul

Processing Integration Results



RT: 55.76
Area: 3827112
Amount: 7.436261
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:25:22 -04:00:00 (UTC)

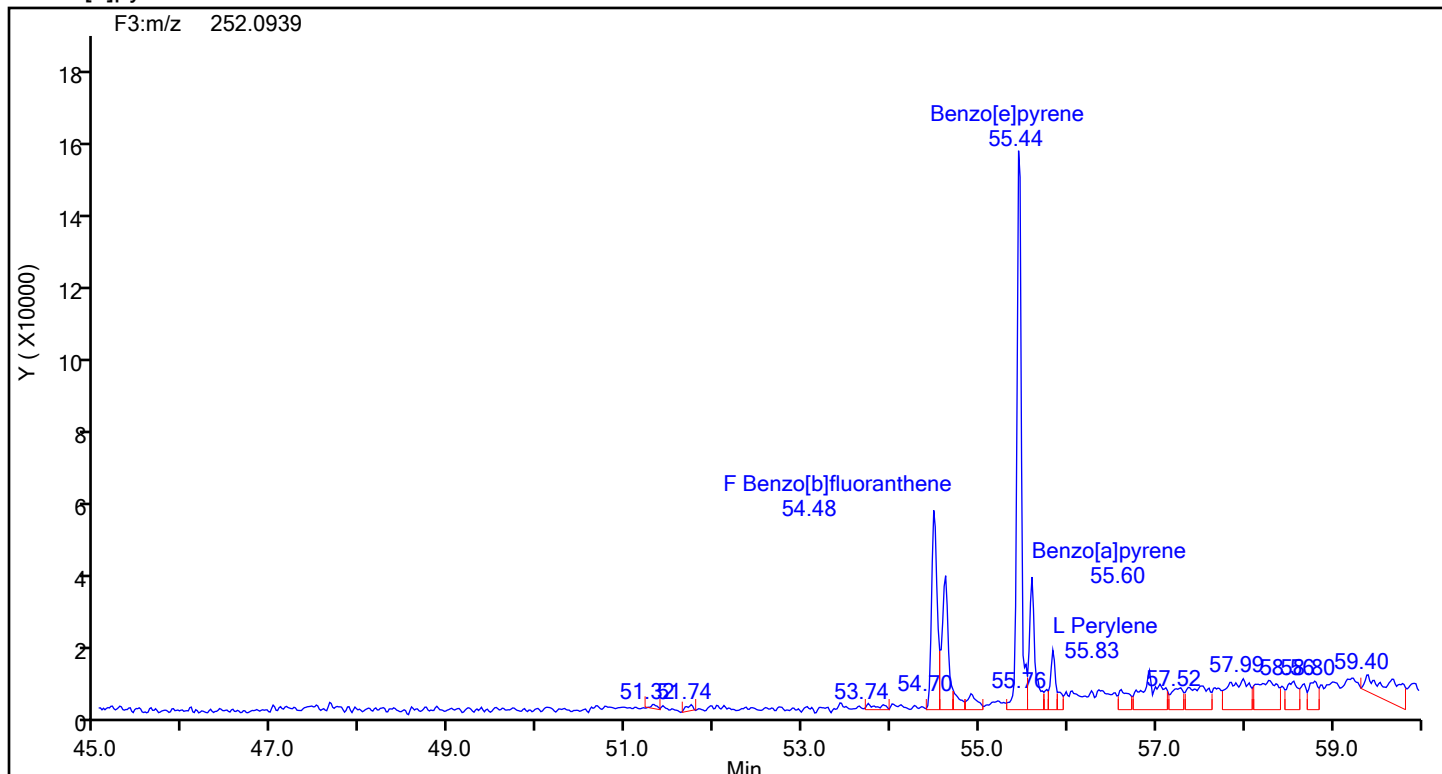
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

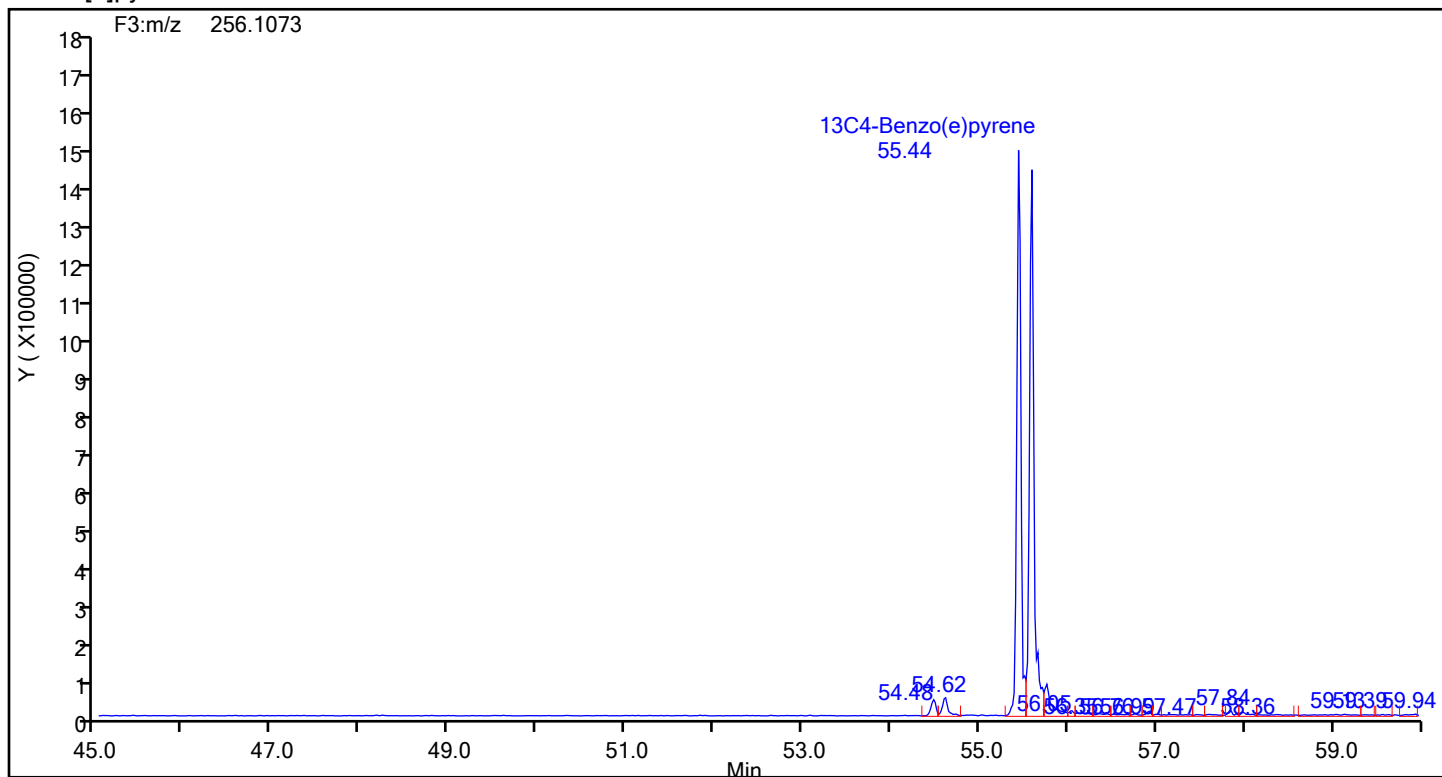
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



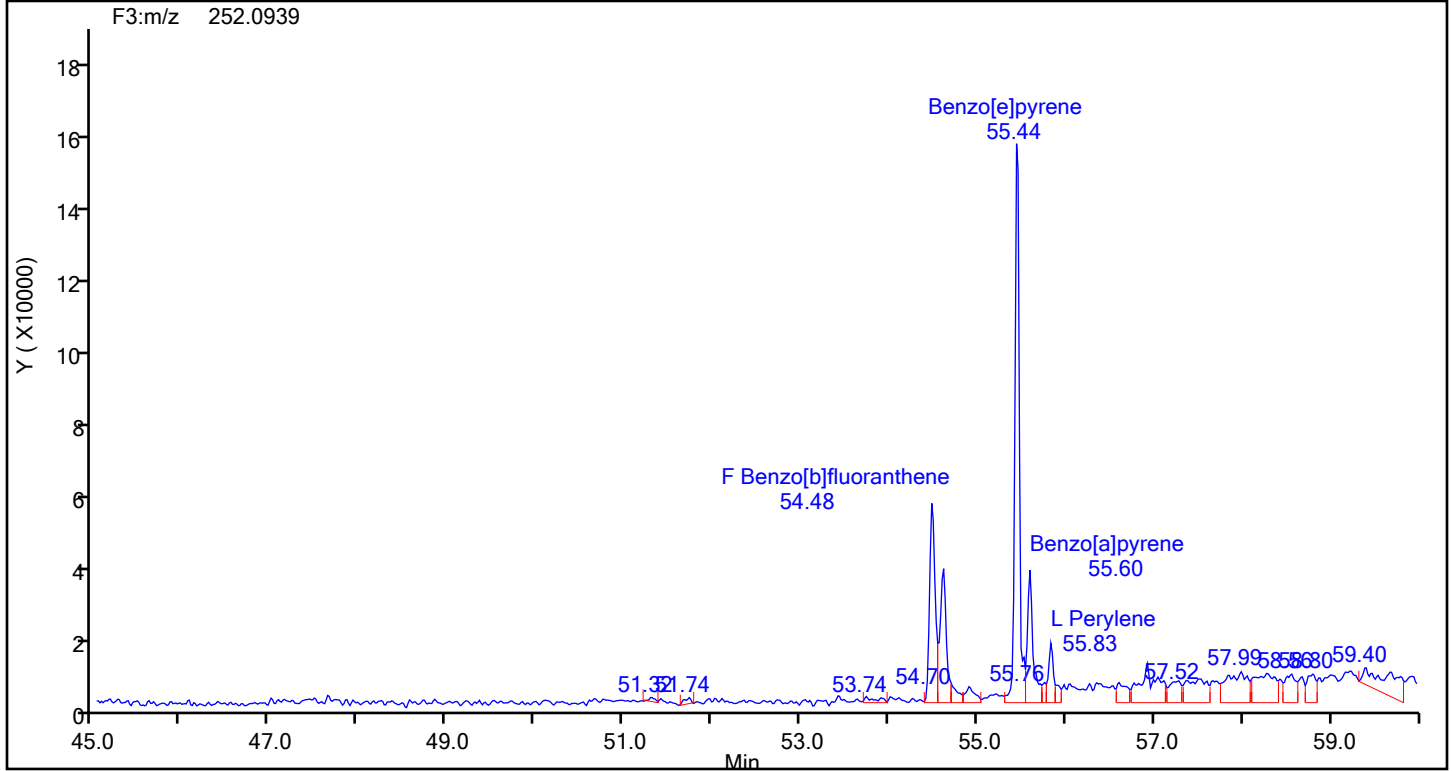
Benzo[e]pyrene Standards



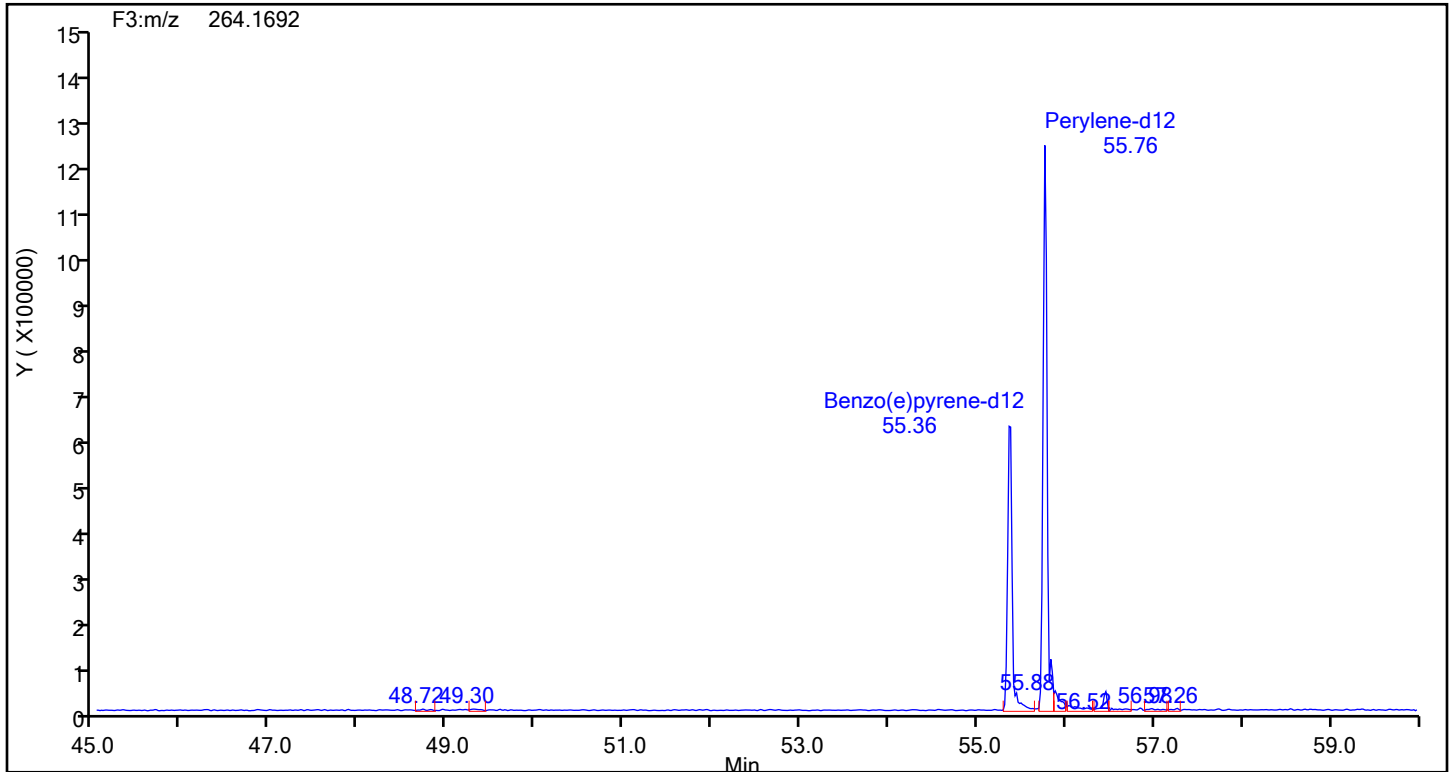
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

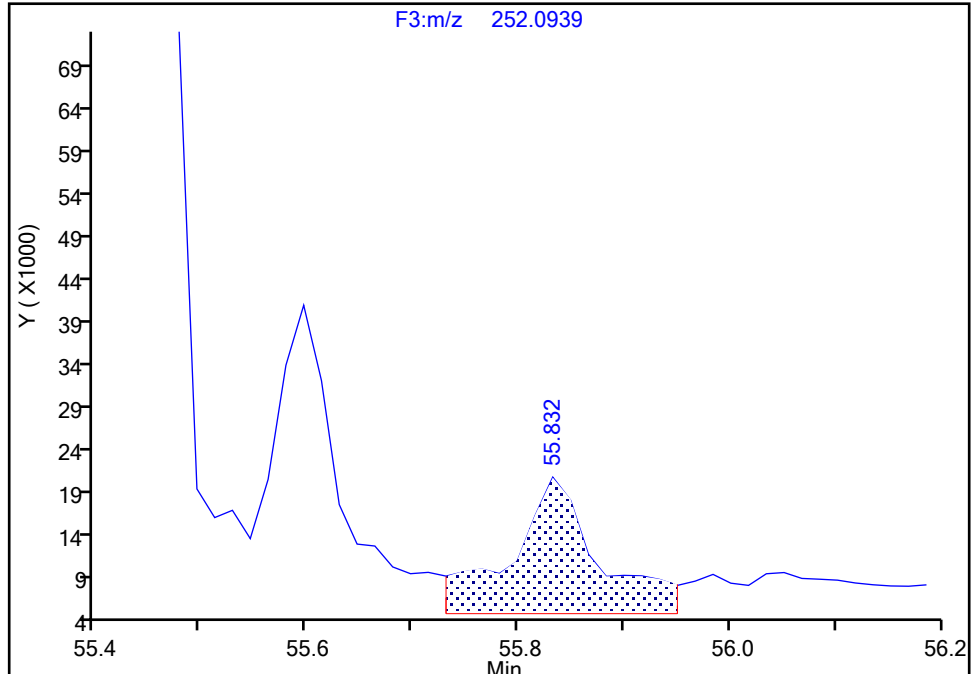
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

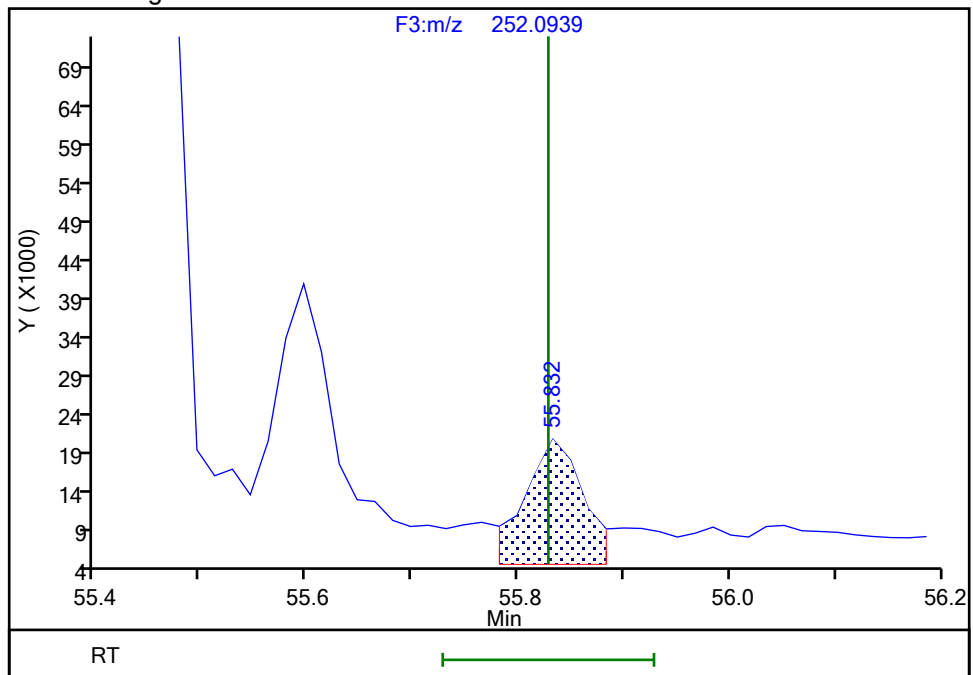
RT: 55.83
Area: 91743
Amount: 0.167557
Amount Units: pg/ul

Processing Integration Results



RT: 55.83
Area: 64107
Amount: 0.117083
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:26:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

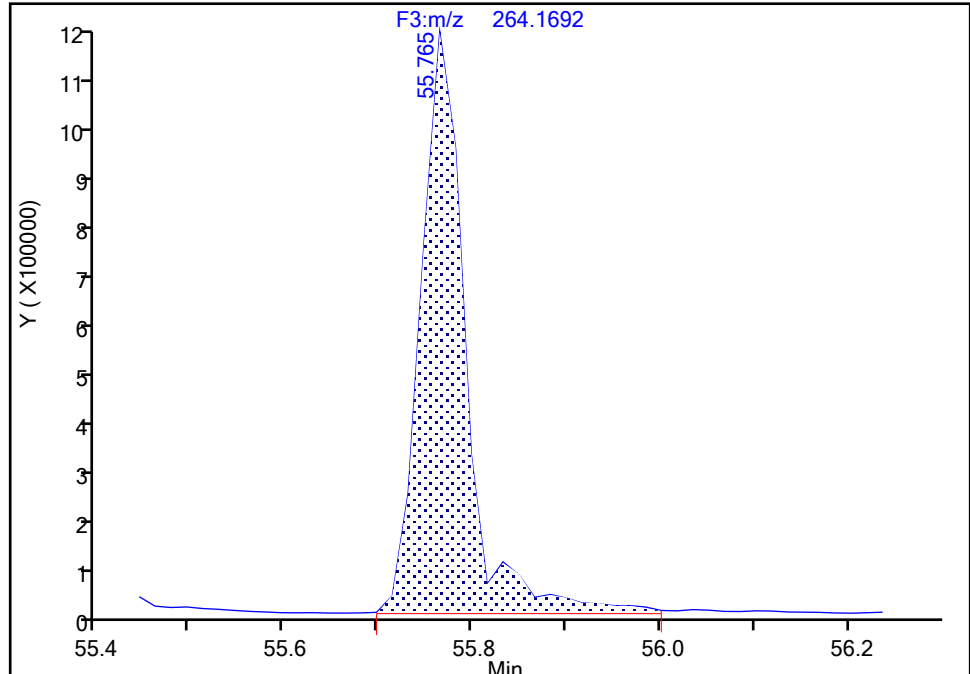
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

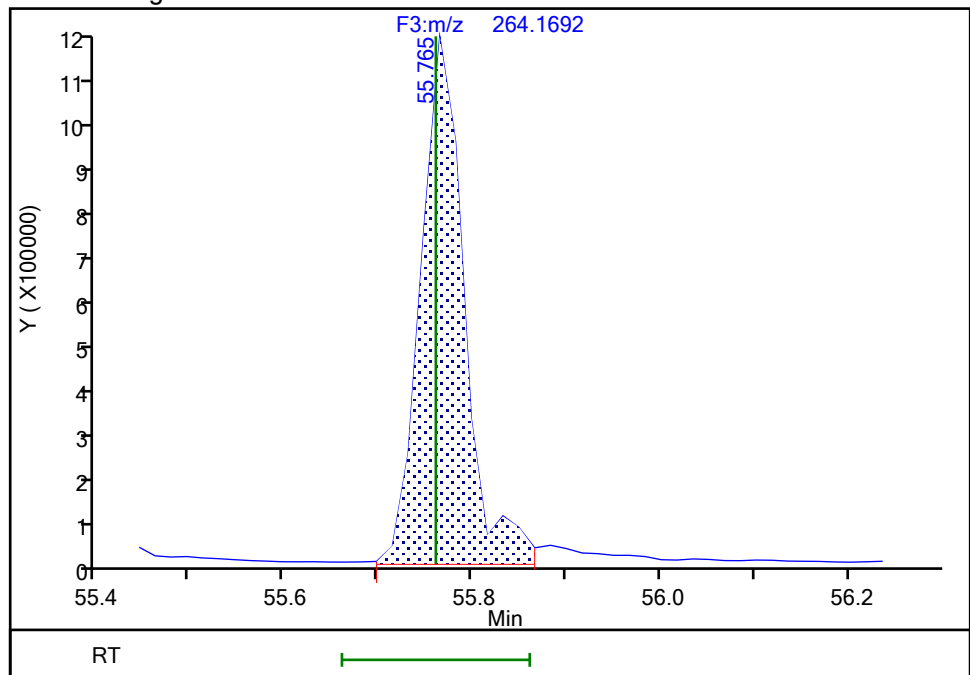
RT: 55.76
Area: 3999509
Amount: 7.771237
Amount Units: pg/ul

Processing Integration Results



RT: 55.76
Area: 3827112
Amount: 7.436261
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:25:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d

Injection Date: 20-Jul-2024 06:13:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED

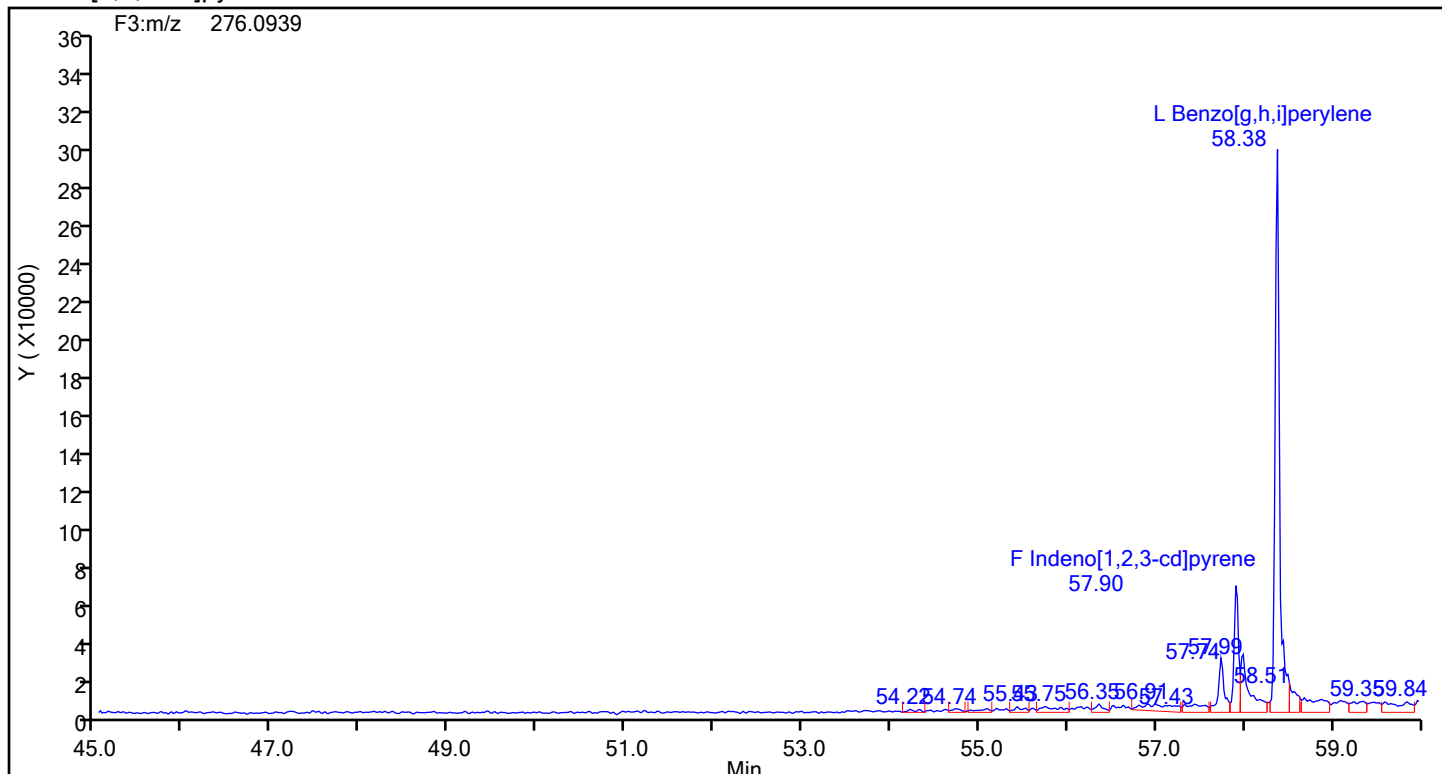
Worklist#: 88999

Sample Line#: 7

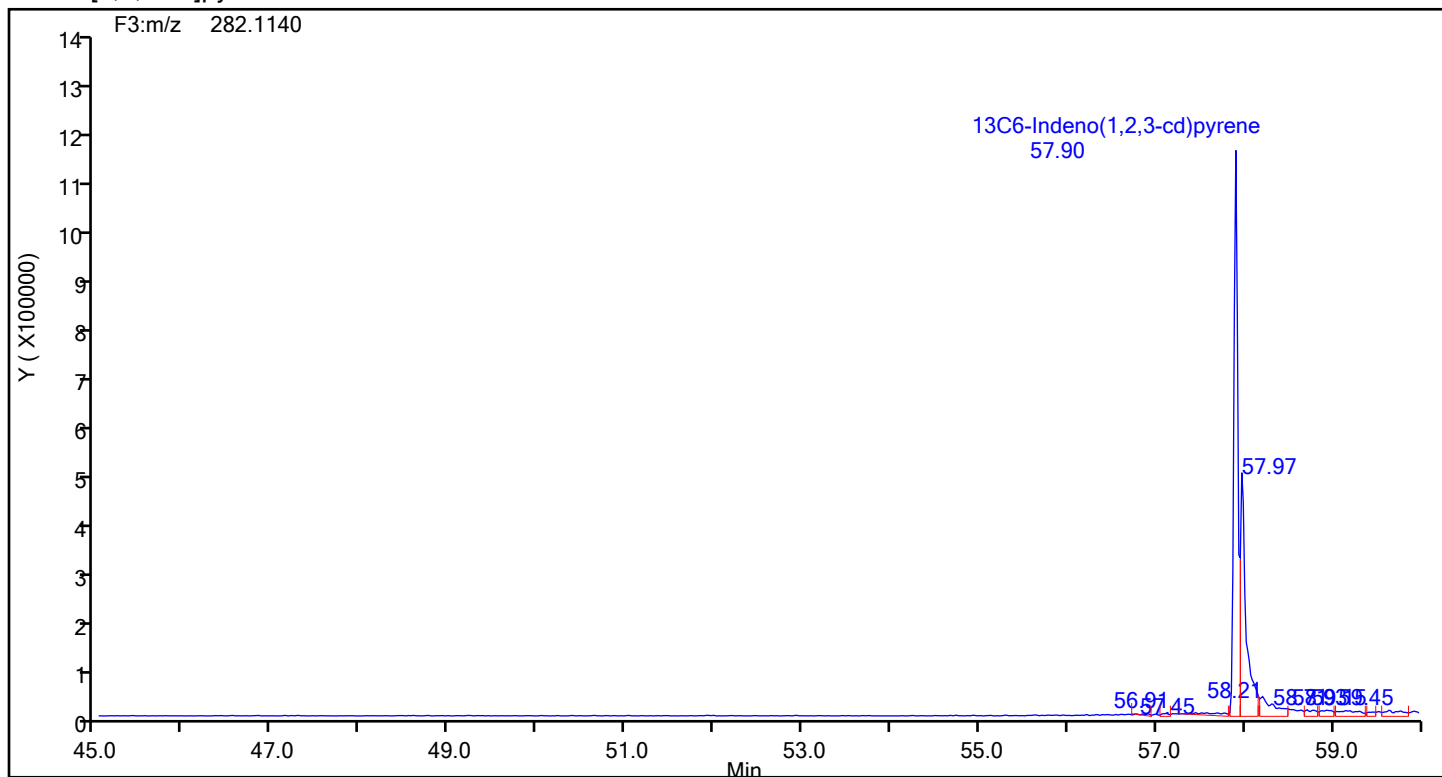
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

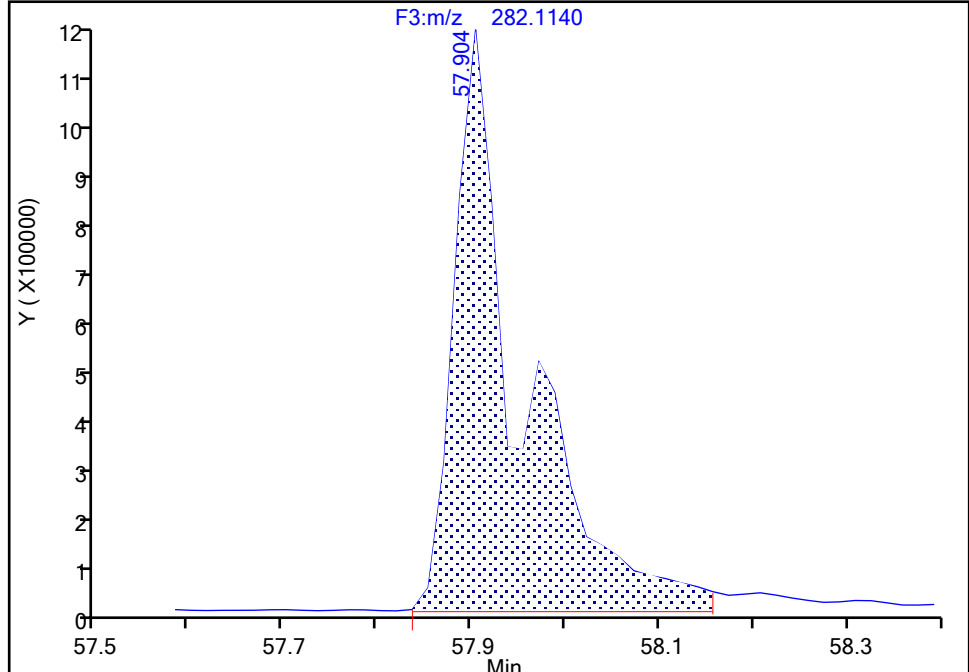
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Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

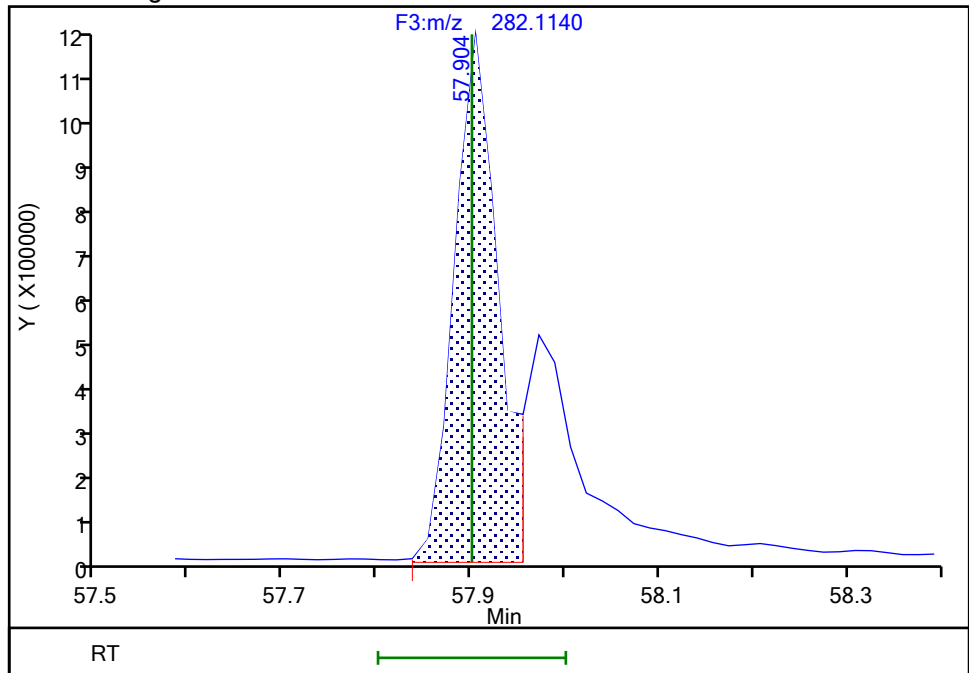
RT: 57.90
Area: 5797930
Amount: 13.138111
Amount Units: pg/ul

Processing Integration Results



RT: 57.90
Area: 3846705
Amount: 8.716634
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:25:37 -04:00:00 (UTC)

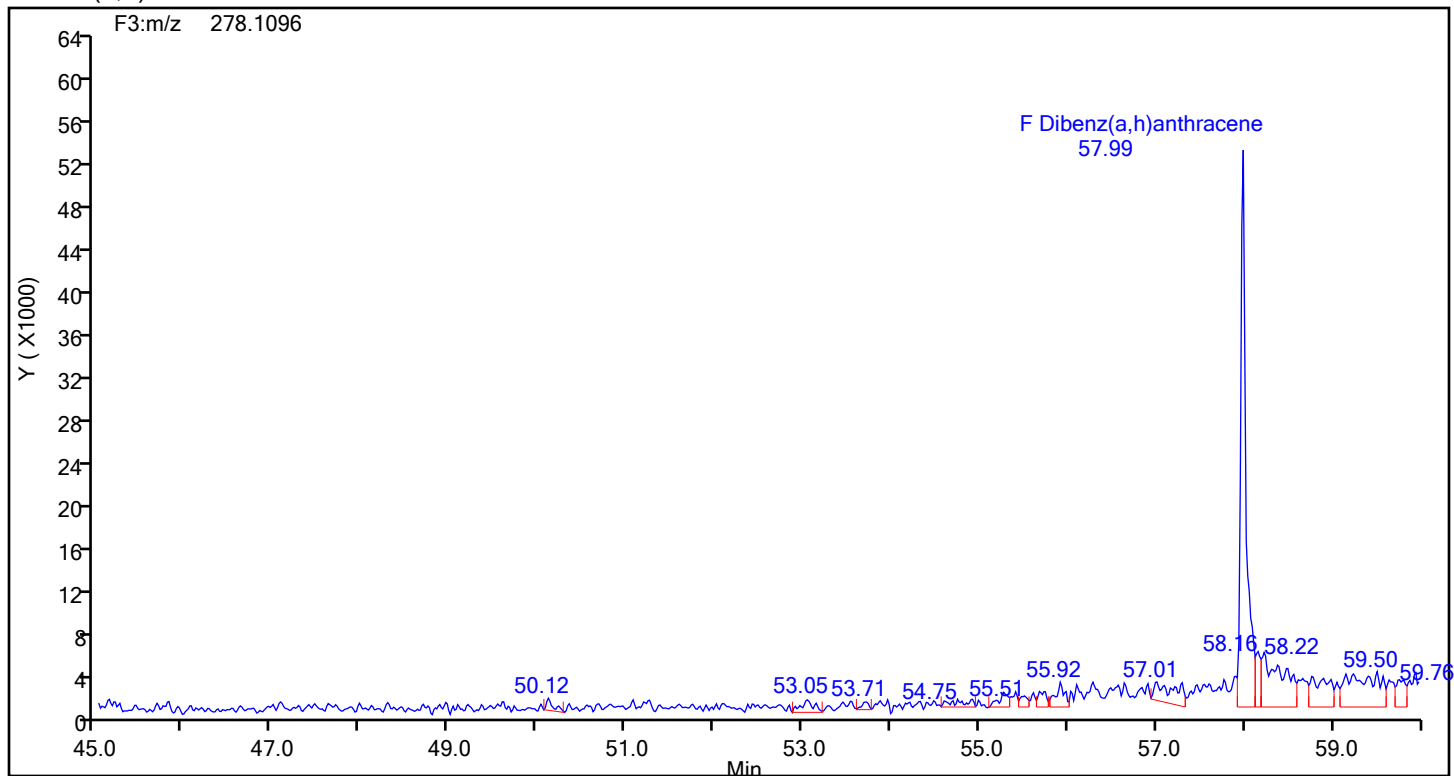
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

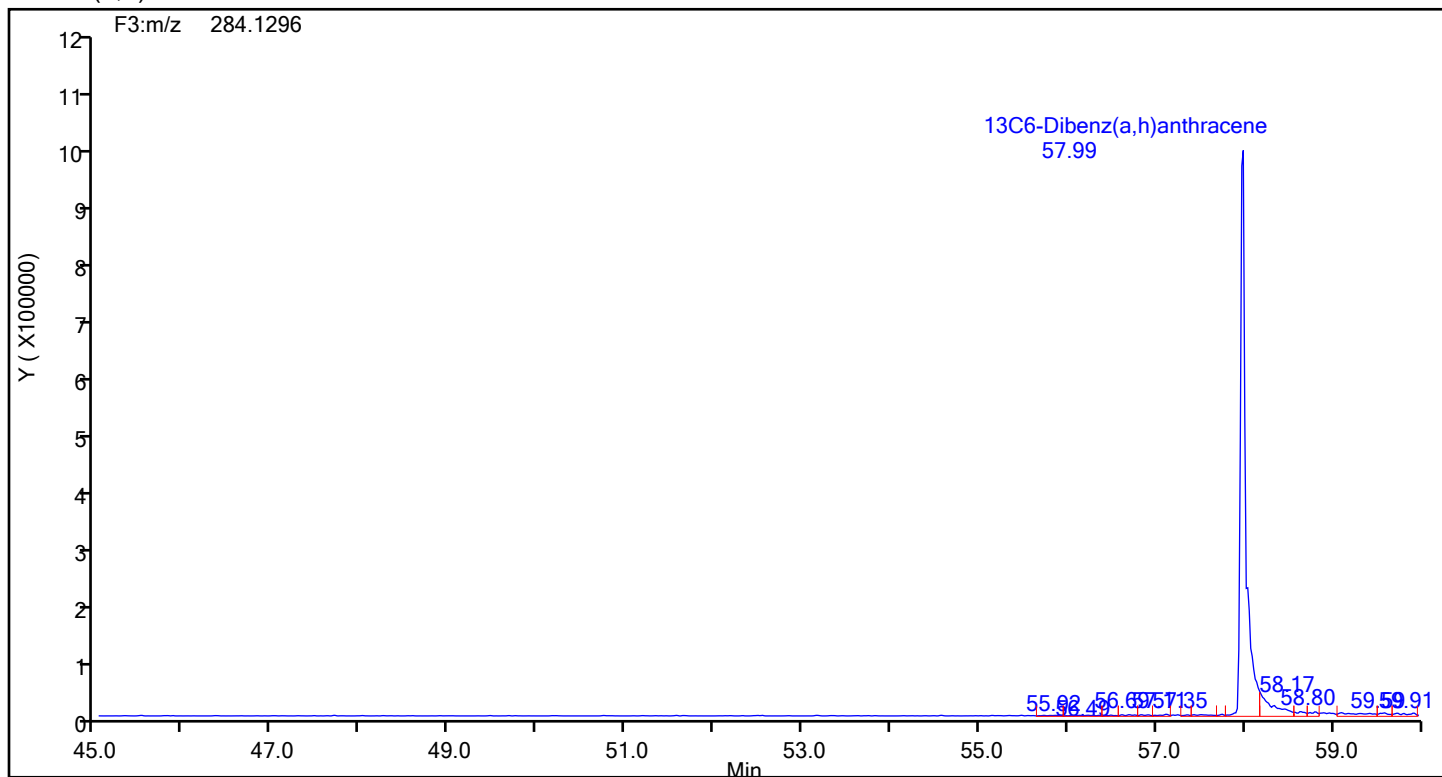
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

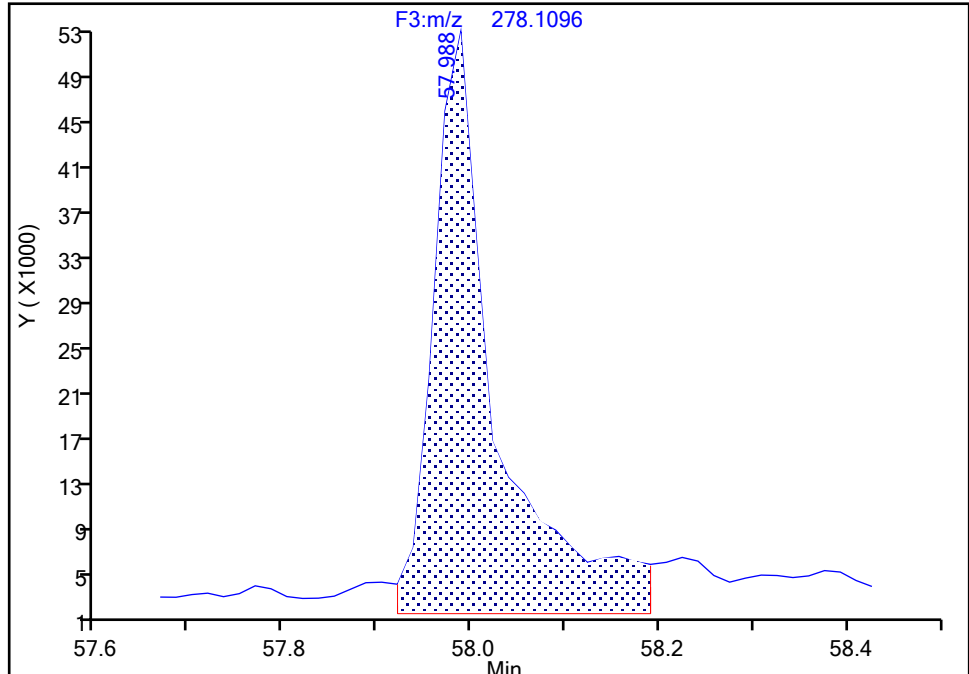
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

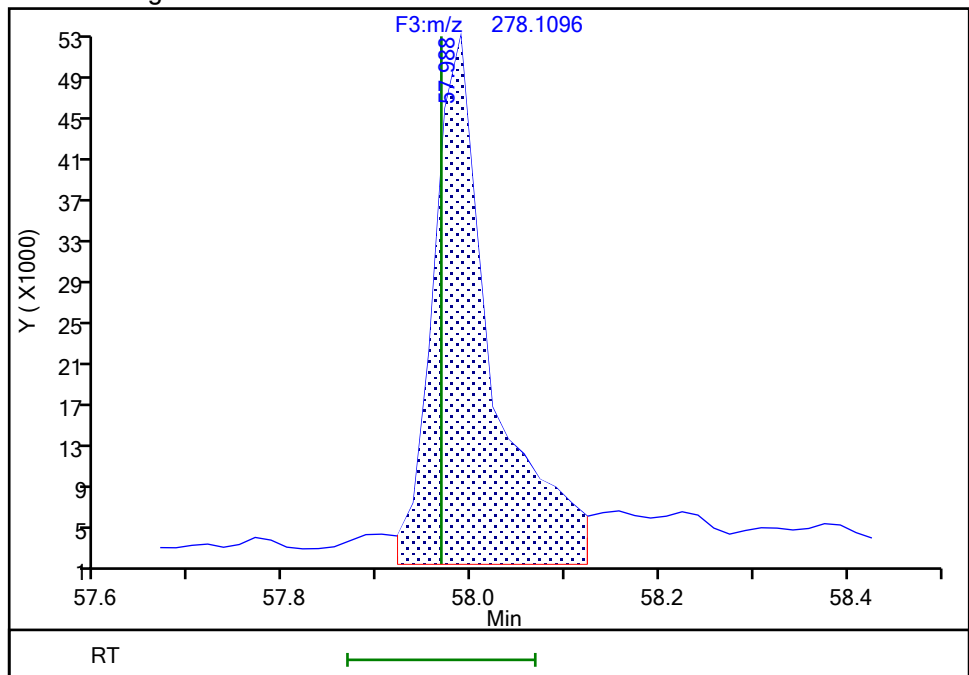
RT: 57.99
Area: 240156
Amount: 0.529796
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 224443
Amount: 0.495133
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:26:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

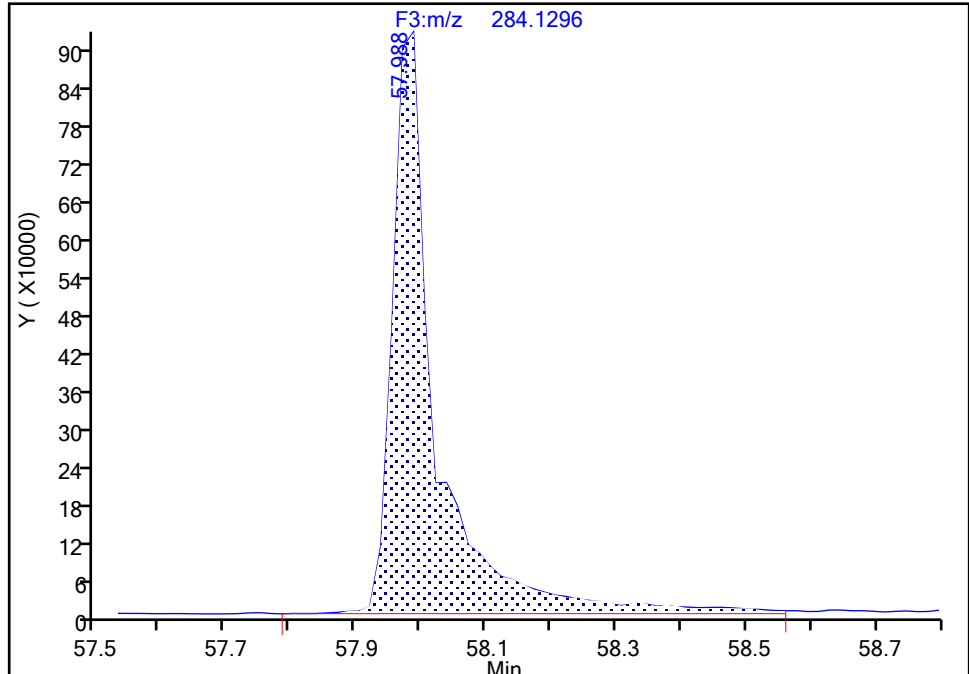
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

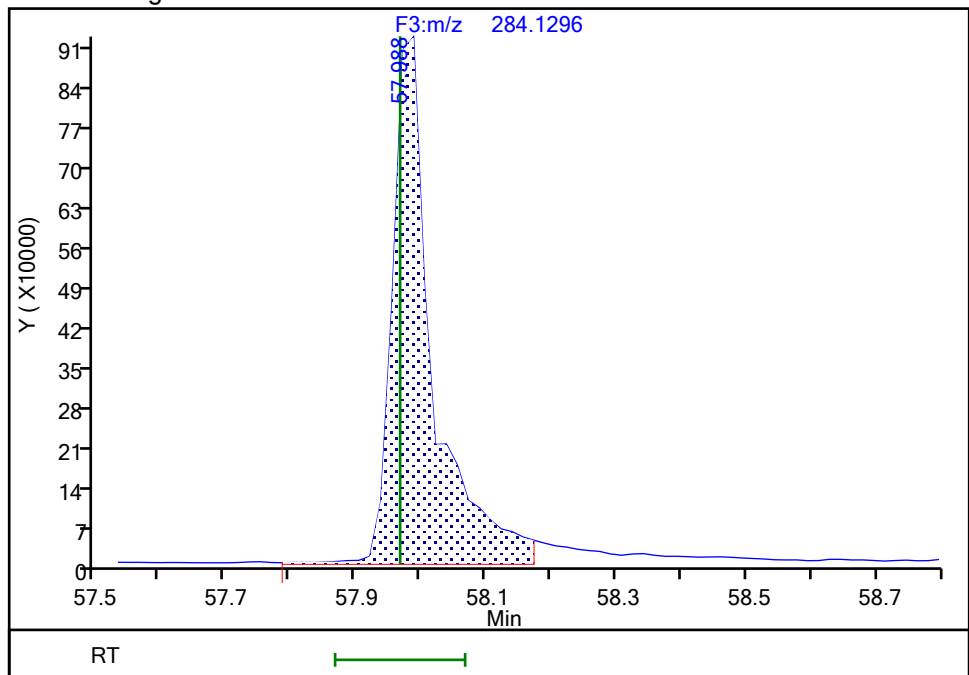
RT: 57.99
Area: 4361125
Amount: 9.569279
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 4006623
Amount: 8.791423
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:25:30 -04:00:00 (UTC)

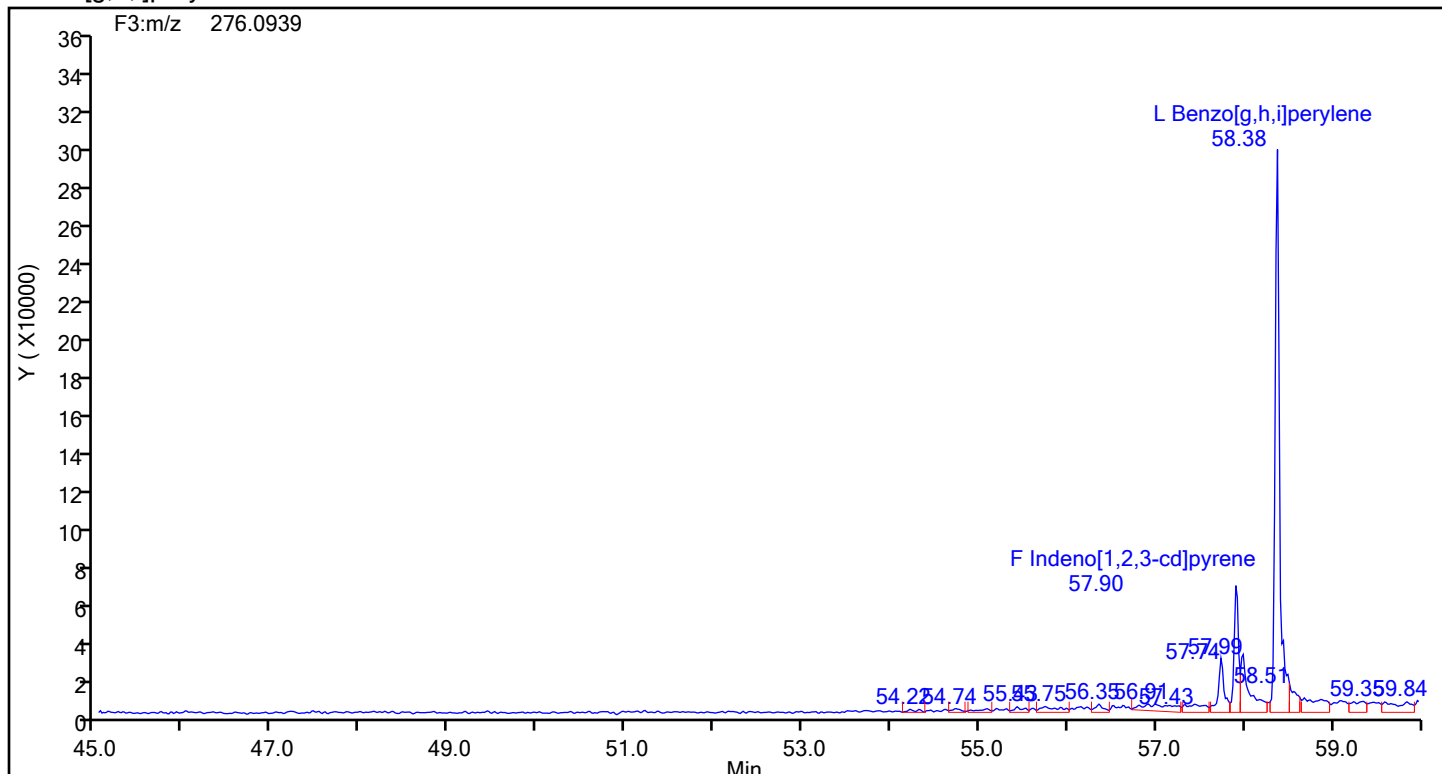
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

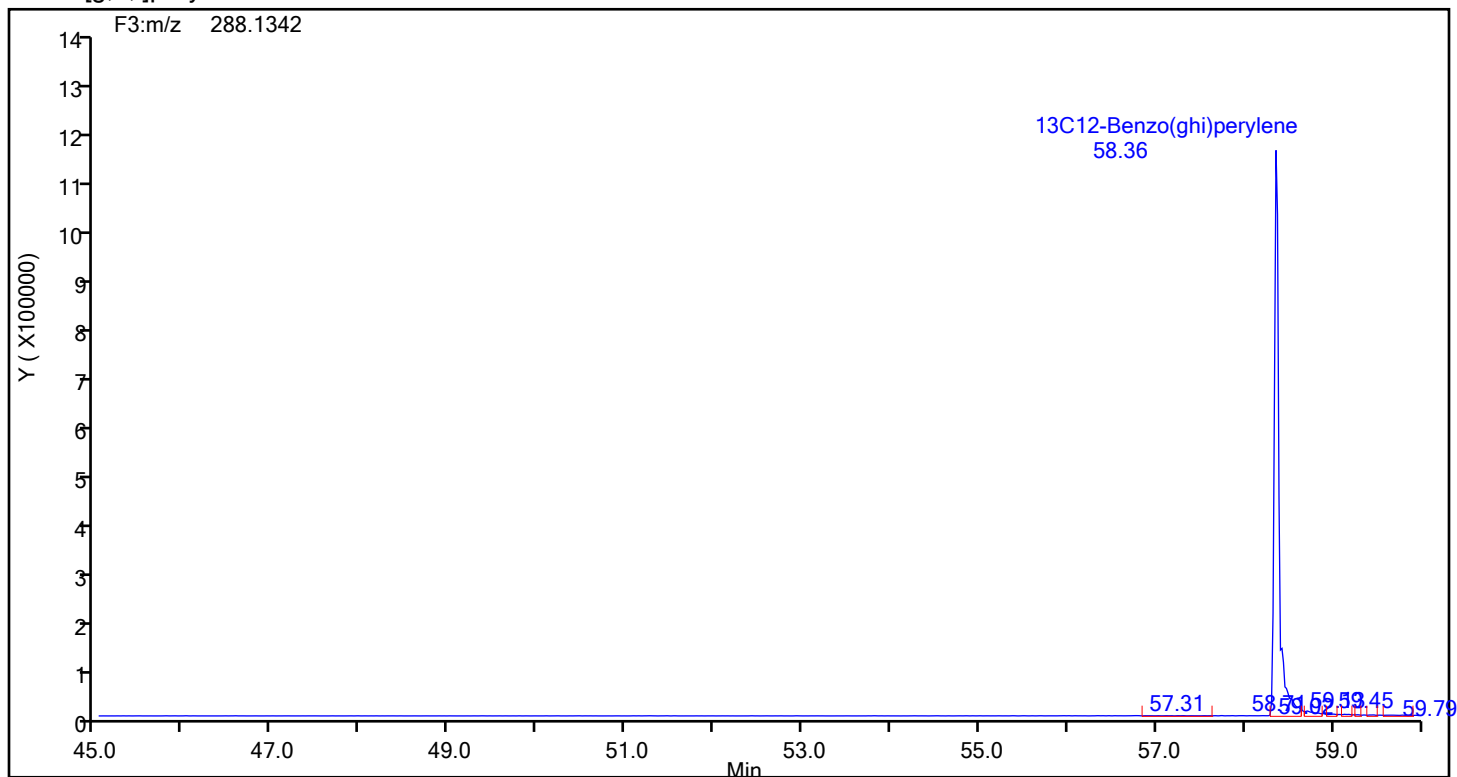
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88999 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

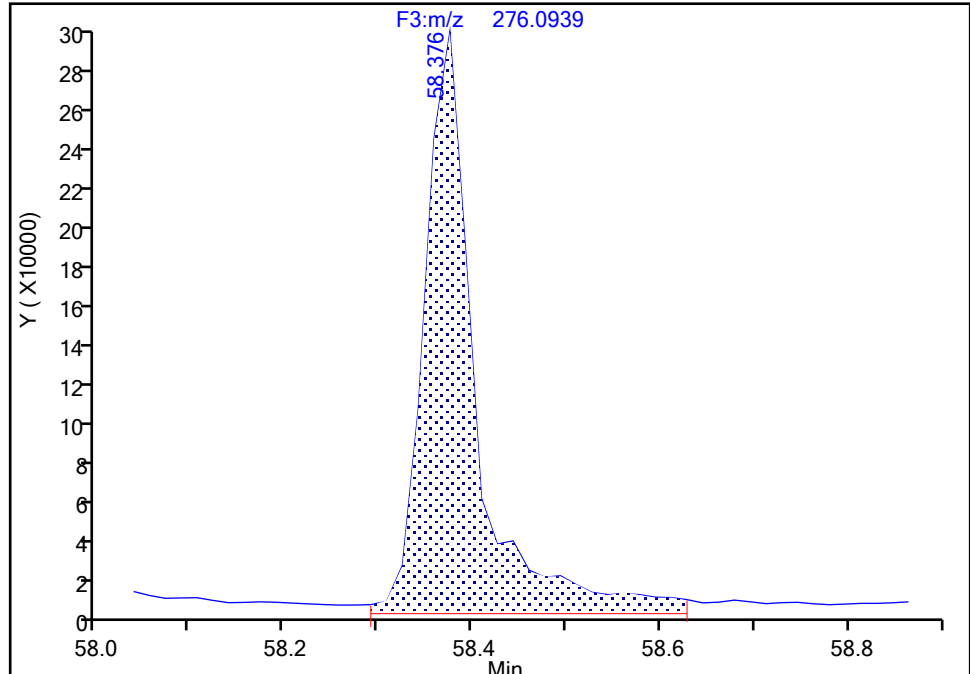
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Injection Date: 20-Jul-2024 06:13:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-5-C Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

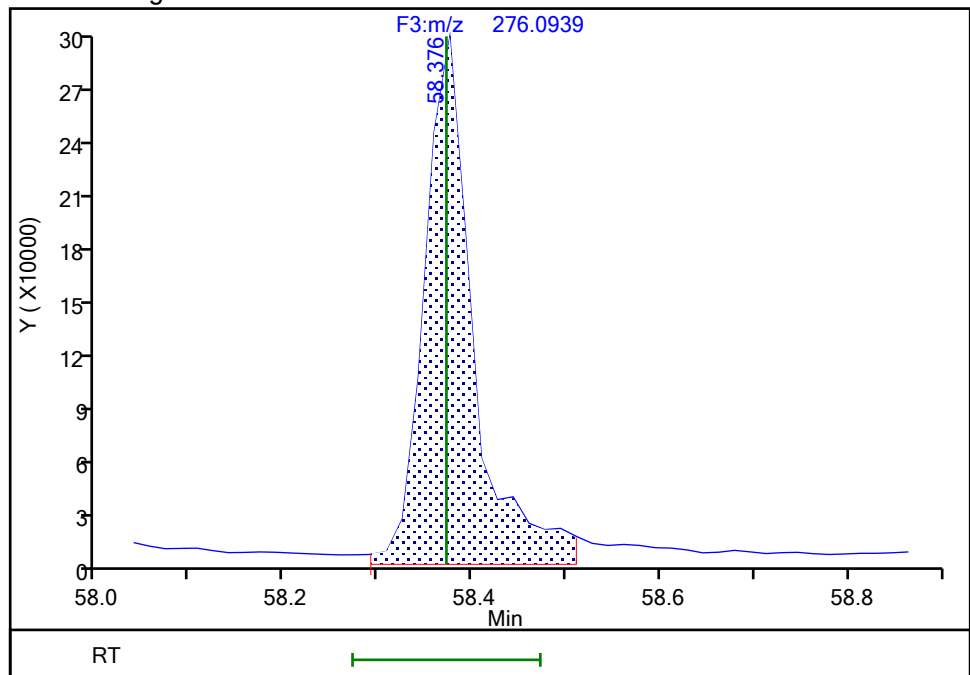
RT: 58.38
Area: 1120016
Amount: 2.049087
Amount Units: pg/ul

Processing Integration Results



RT: 58.38
Area: 1061102
Amount: 1.941302
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:26:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-5-c.d
Lims ID: 140-37232-A-5-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 06:13:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 11:27:16 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:27:16

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.5416	54.16
13C6-Benzo(c)fluorene	100.0	9.26	92.57
13C12-Benzo(j)fluoranthene	100.0	7.37	73.67

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 6 - COMBINED</u>	Lab Sample ID: <u>140-37232-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-6-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 18:05</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 07:18</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	529	J B * +	750	750	1.15
91-57-6	2-Methylnaphthalene	150	J B	750	750	0.148
208-96-8	Acenaphthylene	10.8	J B	30.0	30.0	0.181
83-32-9	Acenaphthene	35.8	J B	300	300	0.182
86-73-7	Fluorene	76.1	J B	300	300	0.200
85-01-8	Phenanthrene	281	B	60.0	60.0	0.272
120-12-7	Anthracene	29.2	J B	300	300	0.259
206-44-0	Fluoranthene	41.1	J B	60.0	60.0	0.0732
129-00-0	Pyrene	50.0	J B	60.0	60.0	0.0792
56-55-3	Benzo[a]anthracene	3.21	J B	60.0	60.0	0.0611
218-01-9	Chrysene	10.4	J B	60.0	60.0	0.0605
205-99-2	Benzo[b]fluoranthene	5.15	J B	300	300	0.0268
207-08-9	Benzo[k]fluoranthene	2.56	J B	60.0	60.0	0.0271
192-97-2	Benzo[e]pyrene	16.1	J B	60.0	60.0	0.0236
50-32-8	Benzo[a]pyrene	3.64	J B	30.0	30.0	0.0222
198-55-0	Perylene	1.13	J B	30.0	30.0	0.0209
193-39-5	Indeno[1,2,3-cd]pyrene	9.37	J B	30.0	30.0	0.0253
53-70-3	Dibenz(a,h)anthracene	5.77	J B	60.0	60.0	0.0161
191-24-2	Benzo[g,h,i]perylene	51.5	J B	60.0	60.0	0.0222

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 6 - COMBINED</u>	Lab Sample ID: <u>140-37232-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-6-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 18:05</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 07:18</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	16	*5-	20-130
STL03357	13C6-2-Methylnaphthalene	56		20-130
189811-56-1	13C6-Acenaphthylene	78		20-130
189811-57-2	13C6-Acenaphthene	75		20-130
STL00616	13C6-Fluorene	81		20-130
1397194-60-3	13C6-Fluoranthrene	84		20-130
1397214-90-2	13C3-Pyrene	76		20-130
917378-11-1	13C6-Benzo (a) anthracene	69		20-130
1397177-72-8	13C6-Chrysene	71		20-130
STL03358	13C6-Benzo (b) fluoranthene	82		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	81		20-130
STL03382	13C4-Benzo (e) pyrene	77		20-130
STL03359	13C4-Benzo (a) pyrene	82		20-130
1520-96-3	Perylene-d12	79		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	95		20-130
STL03360	13C6-Dibenz (a,h) anthracene	93		20-130
350820-11-0	13C12-Benzo (ghi) perylene	74		20-130
189811-60-7	13C6-Anthracene	91		20-130
1189955-53-0	13C6-Phenanthrene	78		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Lims ID: 140-37232-A-6-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 07:18:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:29:18 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:29:18

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:39	4619787		3.3746	1.590	1.590	0.000952	0.000952	15.90	Ma
Naphthalene	11:40	21008898		1.2893	35.3	35.3	0.0768	0.0768		Ma
D 13C6-2-Methylnaphthalene	13:51	7694356		1.6031	5.574	5.574	0.000512	0.000512	55.74	
2-Methylnaphthalene	13:51	9807509		1.2786	9.969	9.969	0.009858	0.009858		
D 13C6-Acenaphthylene	16:39	11088211		1.6520	7.794	7.794	0.001250	0.001250	77.94	
Acenaphthylene	16:39	1083706		2.3661	0.7223	0.7223	0.0120	0.0120		
* Acenaphthene-d10	17:13	4305697		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	6340805		0.9792	7.520	7.520	0.002103	0.002103	75.20	
Acenaphthene	17:20	1921382		1.2697	2.387	2.387	0.0121	0.0121		
D 13C6-Fluorene	19:35	6173807		0.8898	8.057	8.057	0.002378	0.002378	80.57	
Fluorene	19:35	3927118		1.2532	5.076	5.076	0.0133	0.0133		
D 13C6-Phenanthrene	24:55	9021688		0.5724	7.770	7.770	0.001096	0.001096	77.70	
Phenanthrene	24:56	18690515		1.1044	18.8	18.8	0.0181	0.0181		
\$ Anthracin-d10	25:08	567099		0.4257	0.6567	0.6567	0.001029	0.001029	65.67	
D 13C6-Anthracene	25:15	8337916		0.4523	9.087	9.087	0.001387	0.001387	90.87	
Anthracene	25:15	2201876		1.3586	1.944	1.944	0.0173	0.0173		
D 13C6-Fluoranthrene	33:38	20352995		1.1994	8.366	8.366	0.003269	0.003269	83.66	
Fluoranthene	33:39	6424824		1.1513	2.742	2.742	0.004882	0.004882		
* Pyrene-d10	35:11	10141925		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:20	20759201		1.3512	7.574	7.574	0.002151	0.002151	75.74	
Pyrene	35:20	7373694		1.0652	3.335	3.335	0.005282	0.005282		
\$ 13C6-Benzo(c)fluorene	39:02	10040952		0.5136	9.638	9.638	0.001669	0.001669	96.38	
D 13C6-Benzo(a)anthracene	45:51	18536698		1.5189	6.945	6.945	0.001445	0.001445	69.45	
Benzo[a]anthracene	45:51	386858		0.9739	0.2143	0.2143	0.004076	0.004076		
D 13C6-Chrysene	46:07	20232718		1.6287	7.069	7.069	0.001347	0.001347	70.69	
Chrysene	46:07	1374335		0.9815	0.6921	0.6921	0.004035	0.004035		
D 13C6-Benzo(b)fluoranthene	54:30	21157328		1.4621	8.235	8.235	0.000517	0.000517	82.35	
Benzo[b]fluoranthene	54:30	816964		1.1249	0.3433	0.3433	0.001789	0.001789		
\$ 13C12-Benzo(j)fluoranthene	54:32	19136550		1.3558	8.032	8.032	0.001704	0.001704	80.32	
D 13C6-Benzo(k)fluoranthene	54:37	24935696		1.7507	8.105	8.105	0.000432	0.000432	81.05	
Benzo[k]fluoranthene	54:38	479586		1.1271	0.1706	0.1706	0.001809	0.001809		M
* Benzo(e)pyrene-d12	55:23	8786439		5.7E+04	5.000	5.000				
Benzo[e]pyrene	55:27	2364096		1.0013	1.072	1.072	0.001572	0.001572		
D 13C4-Benzo(e)pyrene	55:27	22021967		1.6368	7.656	7.656	0.000898	0.000898	76.56	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:36	22341357		1.5508	8.198	8.198	0.000948	0.000948	81.98	
Benzo[a]pyrene	55:36	603495		1.1130	0.2427	0.2427	0.001483	0.001483		M
D Perylene-d12	55:46	16553292		1.1917	7.905	7.905	0.001874	0.001874	79.05	
Perylene	55:50	178161		1.4307	0.0752	0.0752	0.001394	0.001394		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	17037129		1.0218	9.488	9.488	0.001316	0.001316	94.88	M
Indeno[1,2,3-cd]pyrene	57:55	1197034		1.1249	0.6246	0.6246	0.001686	0.001686		
D 13C6-Dibenz(a,h)anthracene	58:00	17307028		1.0553	9.333	9.333	0.000823	0.000823	93.33	M
Dibenz(a,h)anthracene	58:00	752737		1.1314	0.3844	0.3844	0.001070	0.001070		M
D 13C12-Benzo(ghi)perylene	58:22	16667483		1.2749	7.440	7.440	0.000472	0.000472	74.40	
Benzo[g,h,i]perylene	58:23	7351672		1.2838	3.436	3.436	0.001479	0.001479		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
 Lims ID: 140-37232-A-6-C
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
 Sample Type: Client
 Inject. Date: 20-Jul-2024 07:18:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Misc. Info.: 140-0033591-008
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jul-2024 11:29:18 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 11:29:18

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											Ma
134.0828	11:39	11:39	15	0.677	4619787	1360937	384	960	3544		M
Naphthalene											Ma
128.0626	11:40	11:40	15	1.001	21008898	6609847	5389	13472	1227		M
13C6-2-Methylnaphthalene											
148.0984	13:51	13:46	4	0.804	7694356	3635418	98	245	37096		
2-Methylnaphthalene											
142.0783	13:51	13:47	4	1.000	9807509	4663389	1833	4582	2544		
13C6-Acenaphthylene											
158.0828	16:39	16:38	1	0.967	11088211	3893800	247	617	15764		
Acenaphthylene											
152.0626	16:39	16:38	2	1.000	1083706	357226	2566	6415	139		
Acenaphthene-d10											
164.1404	17:13	17:12	1		4305697	1493609	87	217	17168		
13C6-Acenaphthene											
160.0984	17:20	17:19	1	1.007	6340805	2250393	246	615	9148		
Acenaphthene											
154.0783	17:20	17:20	0	1.000	1921382	658756	1384	3460	476		
13C6-Fluorene											
172.0984	19:35	19:35	0	1.138	6173807	1800613	253	632	7117		
Fluorene											
166.0783	19:35	19:35	0	1.001	3927118	1189013	1202	3005	989		
13C6-Phenanthrene											
184.0984	24:55	24:55	-1	0.708	9021688	2094754	93	232	22524		
Phenanthrene											
178.0783	24:56	24:55	-1	1.000	18690515	4385492	1677	4192	2615		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:08	25:08	-1	0.714	567099	134750	65	162	2073		
13C6-Anthracene											
184.0984	25:15	25:15	-2	0.717	8337916	1786528	93	232	19210		
Anthracene											
178.0783	25:15	25:14	-1	1.000	2201876	454374	1677	4192	271		
13C6-Fluoranthrene											
208.0984	33:38	33:38	-1	0.956	20352995	3837187	580	1450	6616		
Fluoranthene											
202.0783	33:39	33:37	-1	1.000	6424824	1228768	863	2157	1424		
Pyrene-d10											
212.1404	35:11	35:12	-1		10141925	1849195	158	395	11704		
13C3-Pyrene											
205.0883	35:20	35:19	-1	1.004	20759201	3833718	430	1075	8916		
Pyrene											
202.0783	35:20	35:19	-1	1.000	7373694	1332643	863	2157	1544		
13C6-Benzo(c)fluorene											
222.1134	39:02	39:02	-1	0.705	10040952	1741407	127	317	13712		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:49	0	1.303	18536698	3154076	455	1137	6932		
Benzo[a]anthracene											
228.0939	45:51	45:52	-1	1.000	386858	67303	501	1252	134		
13C6-Chrysene											
234.1140	46:07	46:09	0	1.311	20232718	3161109	455	1137	6947		
Chrysene											
228.0939	46:07	46:07	-1	1.000	1374335	196493	501	1252	392		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:28	0	0.984	21157328	5565535	157	392	35449		
Benzo[b]fluoranthene											
252.0939	54:30	54:29	0	1.000	816964	171400	448	1120	383		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:30	0	0.984	19136550	4690926	479	1197	9793		
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:38	0	0.986	24935696	5493297	157	392	34989		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	479586	110561	448	1120	247		M
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		8786439	2590943	463	1157	5596		M
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	2364096	694492	448	1120	1550		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:26	0	1.001	22021967	7117796	305	762	23337		
13C4-Benzo(a)pyrene											
256.1073	55:36	55:35	0	1.004	22341357	6786567	305	762	22251		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:36	55:36	0	1.000	603495	180504	448	1120	403		M
Perylene-d12											
264.1692	55:46	55:46	0	1.007	16553292	5614609	463	1157	12127		
Perylene											M
252.0939	55:50	55:50	0	1.001	178161	30765	448	1120	69		M
13C6-Indeno(1,2,3-cd)pyrene											M
282.1140	57:55	57:55	0	1.046	17037129	5351921	279	697	19183		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:54	0	1.000	1197034	358797	406	1015	884		
13C6-Dibenz(a,h)anthracene											M
284.1296	58:00	58:00	1	1.047	17307028	4682378	180	450	26013		M
Dibenz(a,h)anthracene											M
278.1096	58:00	58:00	1	1.000	752737	187599	227	567	826		M
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:23	0	1.054	16667483	5347257	125	312	42778		
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	0	1.000	7351672	2274389	406	1015	5602		

QC Flag Legend

Processing Flags

Review Flags

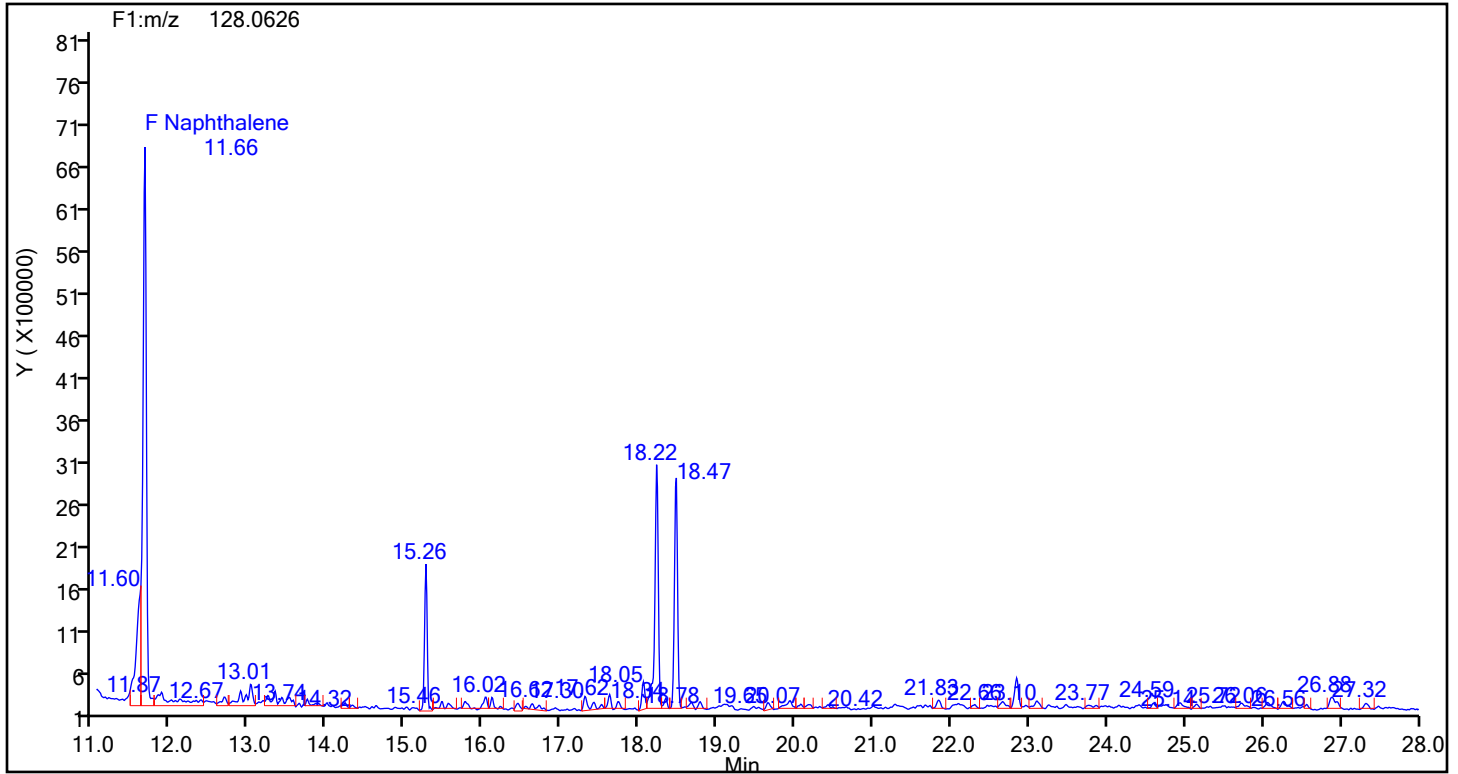
M - Manually Integrated

a - User Assigned ID

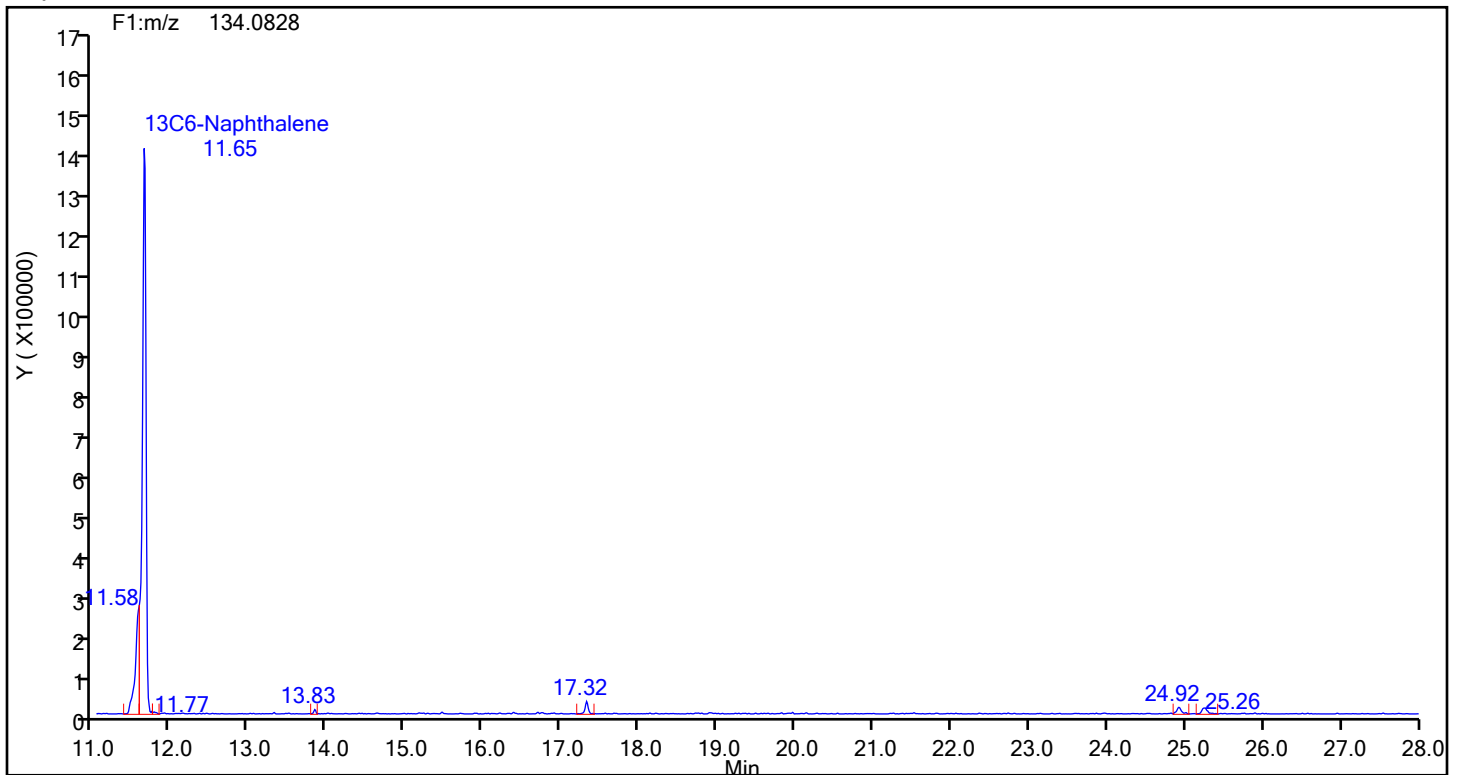
Eurofins Knoxville

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Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

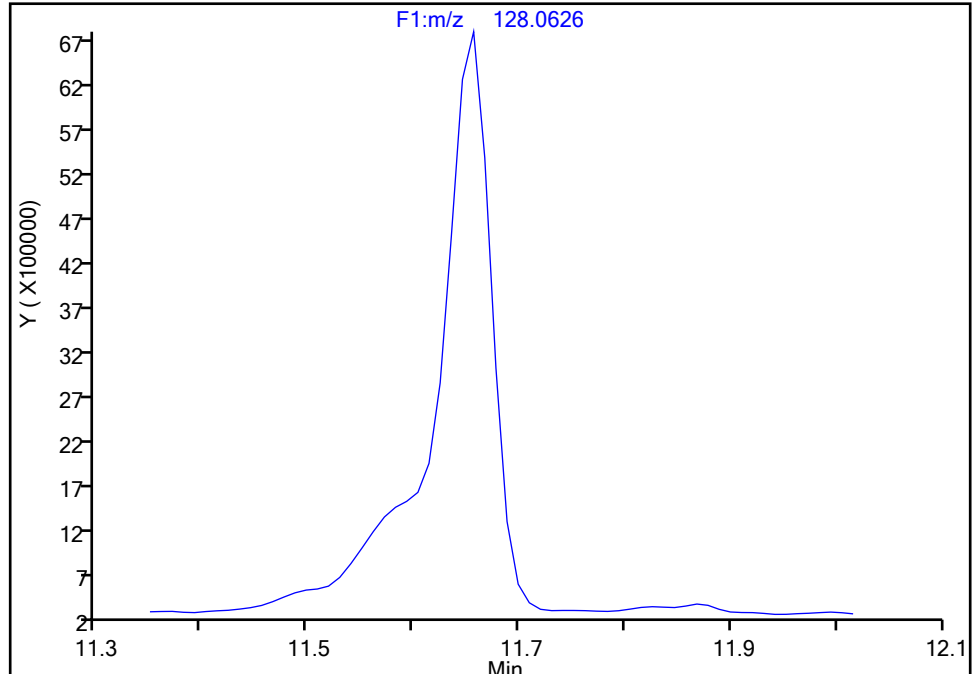
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Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

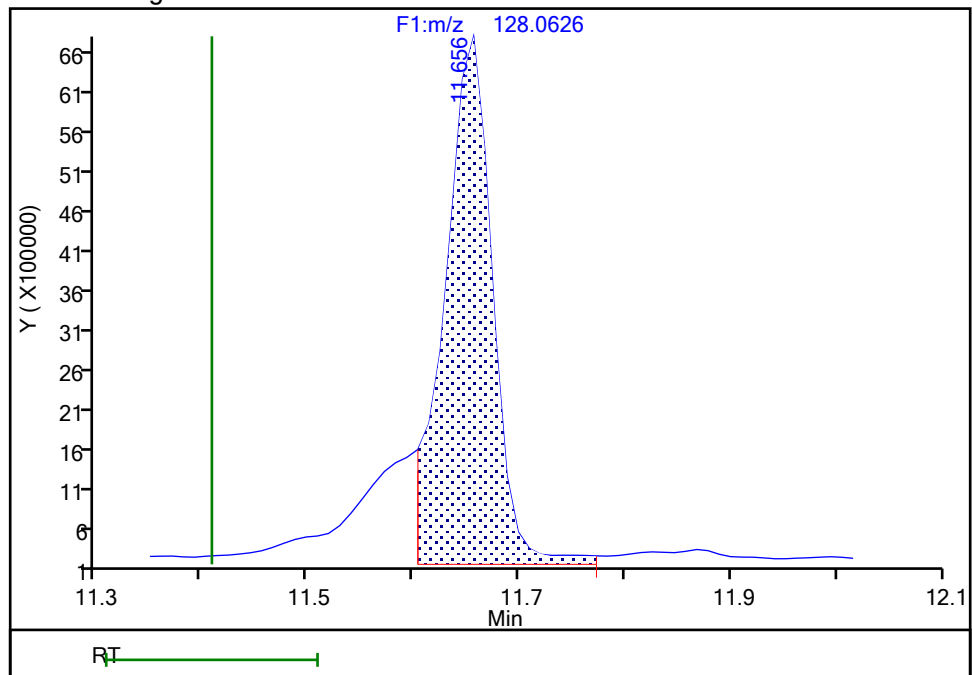
Not Detected
Expected RT: 11.41

Processing Integration Results



RT: 11.66
Area: 21008898
Amount: 35.272876
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:28:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

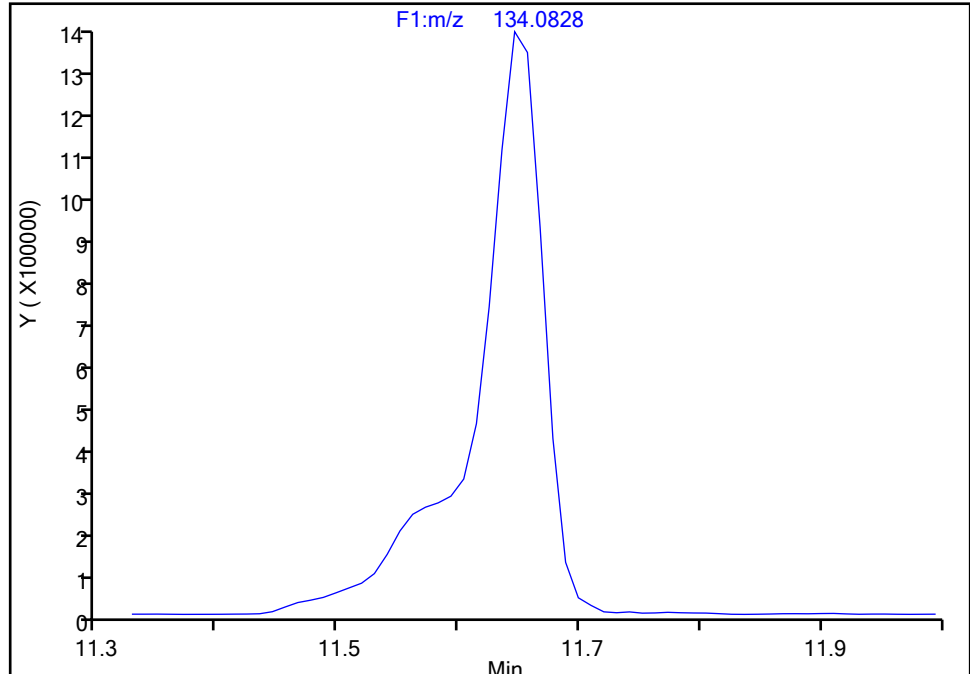
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Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

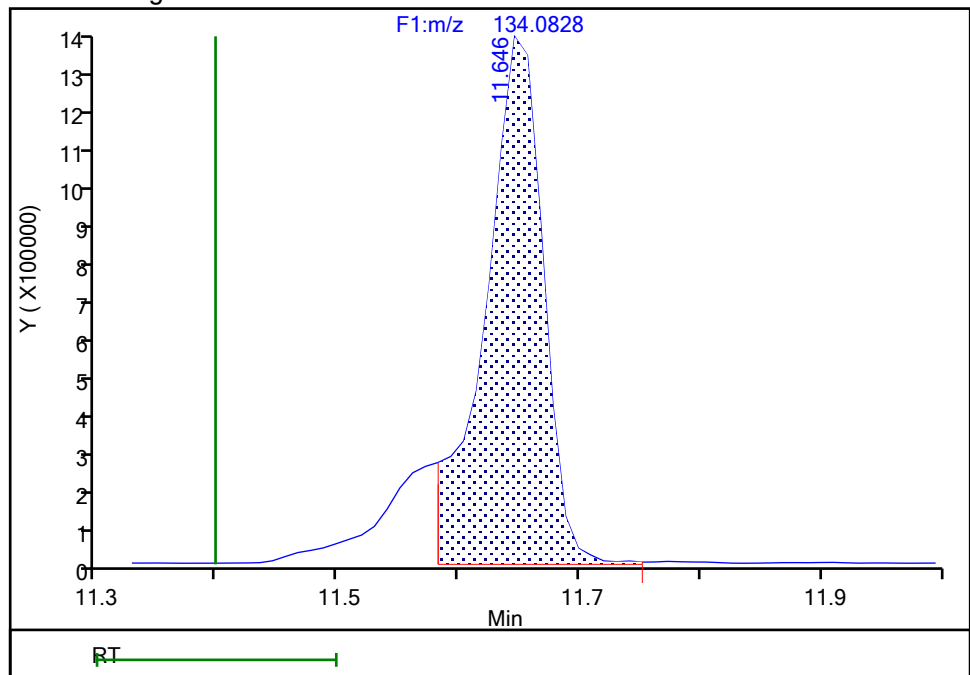
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.65
Area: 4619787
Amount: 1.589756
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:27:40 -04:00:00 (UTC)

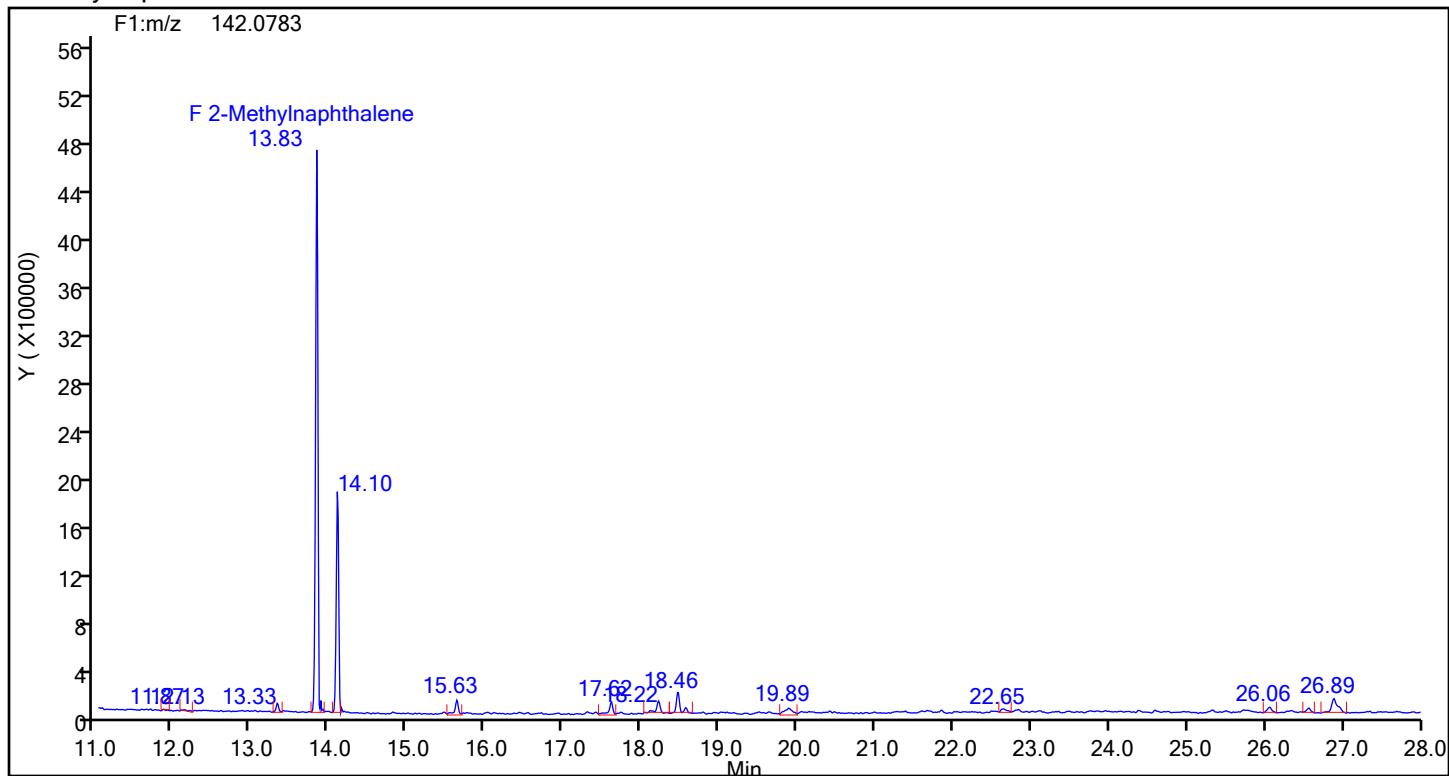
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

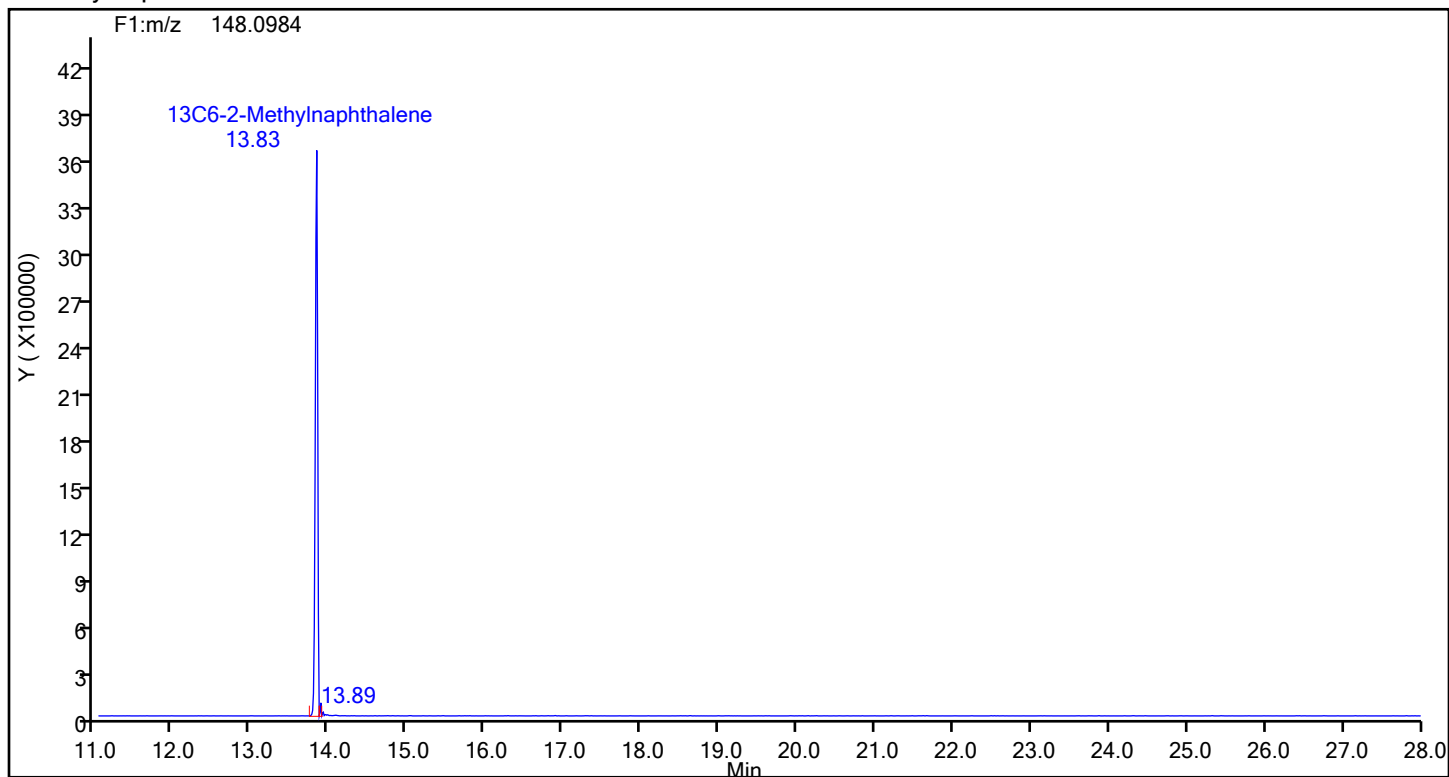
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



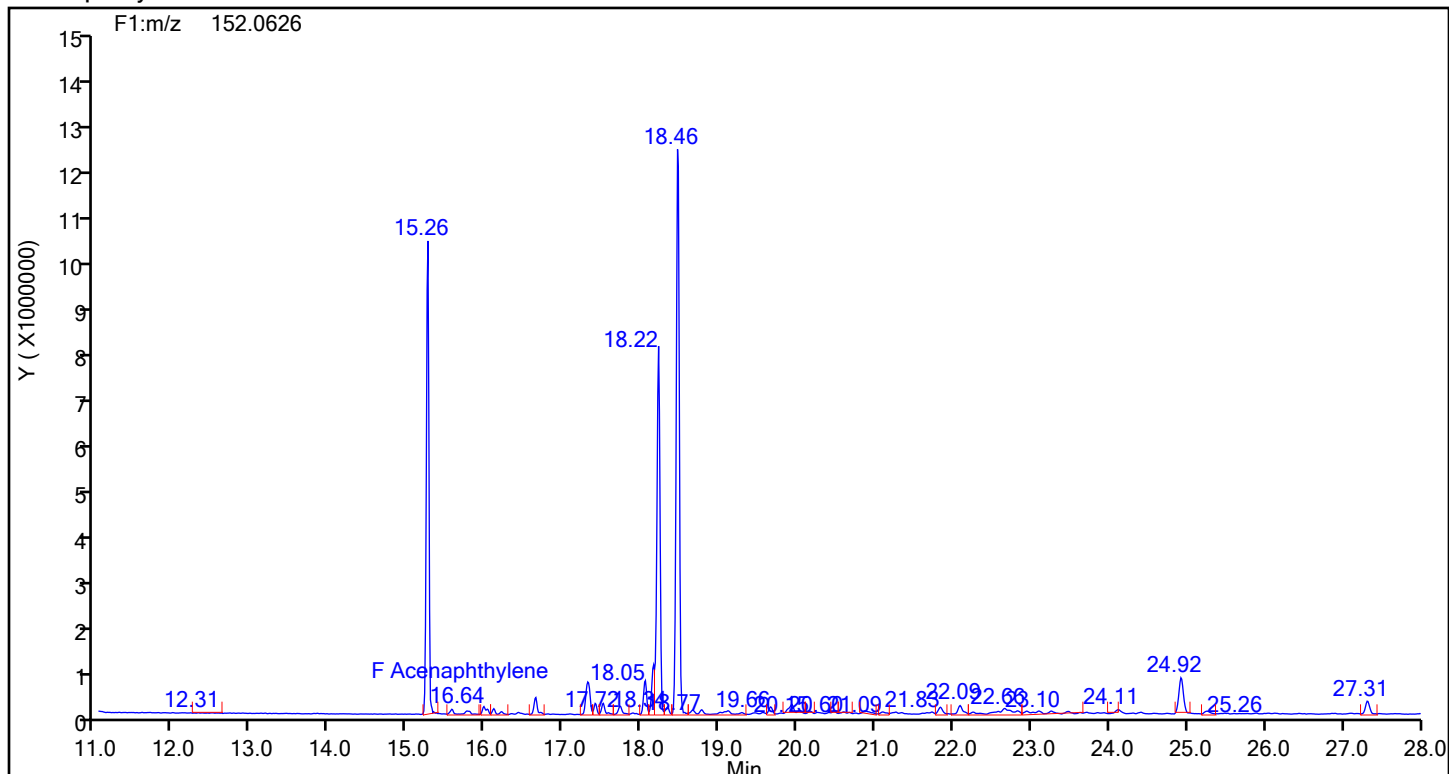
2-Methylnaphthalene Standards



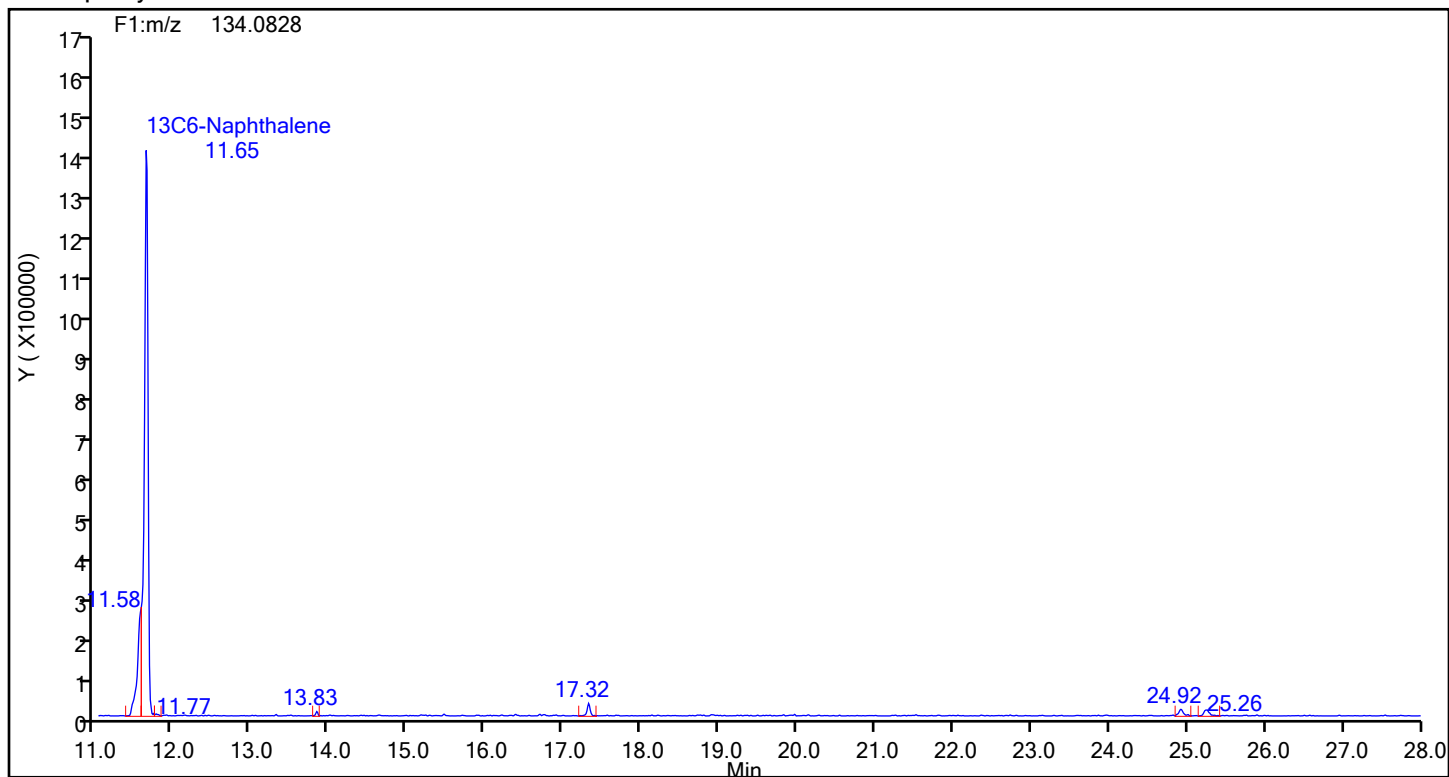
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

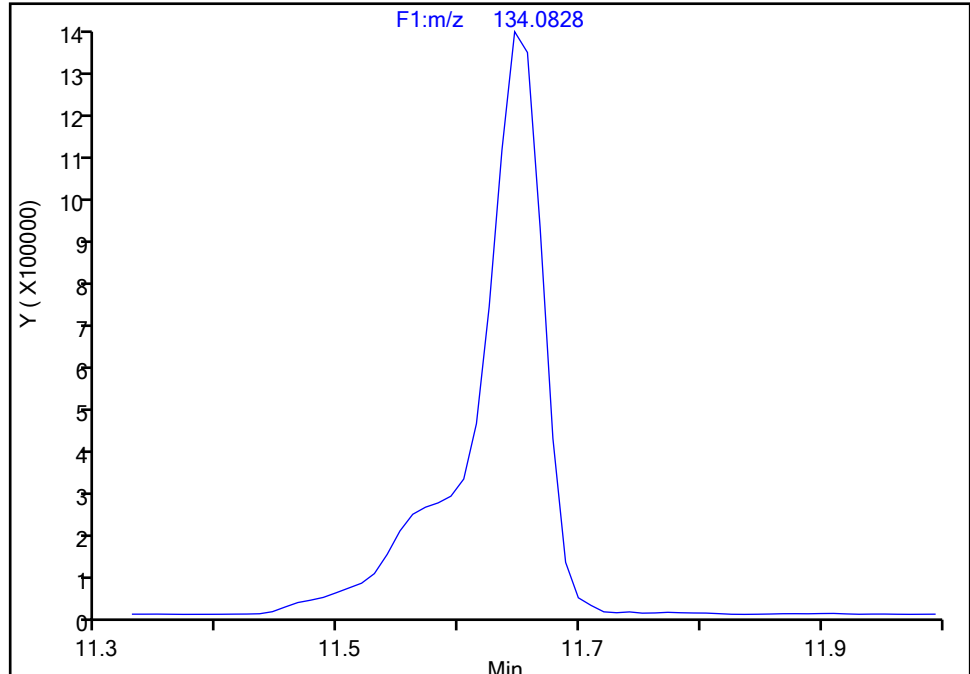
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Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

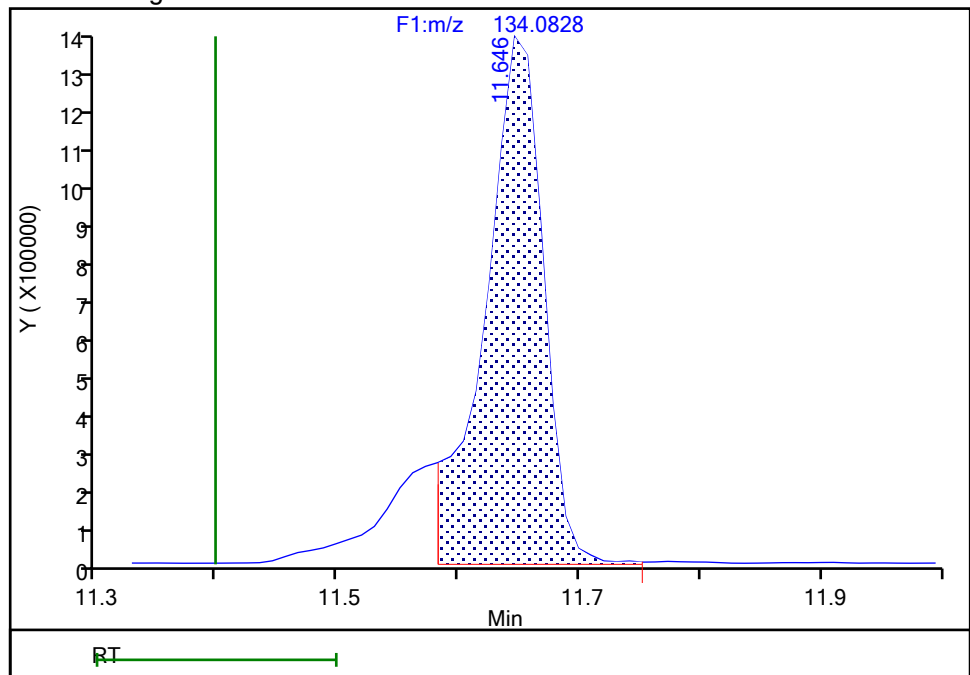
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.65
Area: 4619787
Amount: 1.589756
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:27:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d

Injection Date: 20-Jul-2024 07:18:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

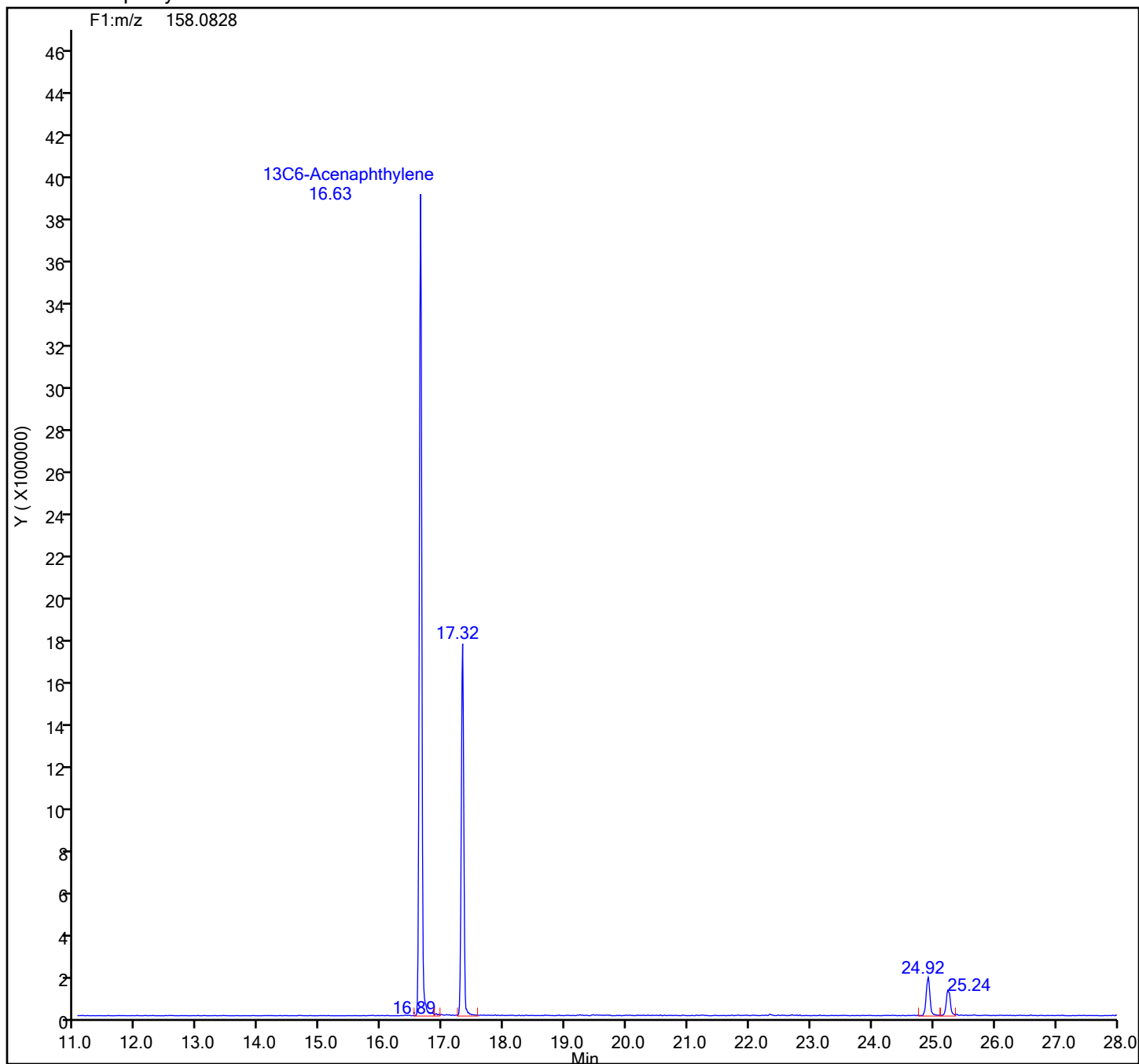
Worklist#: 88999

Sample Line#: 8

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

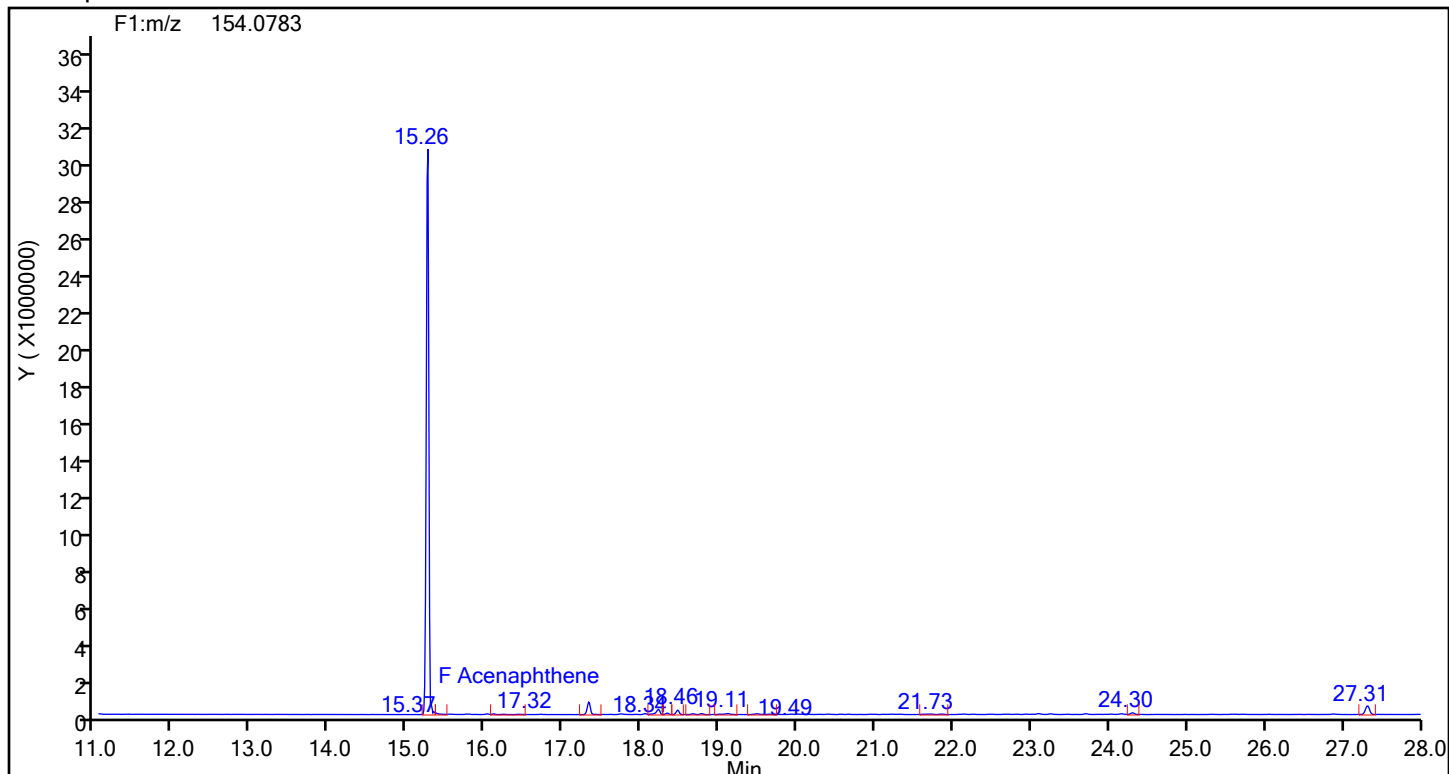
13C6-Acenaphthylene Standards



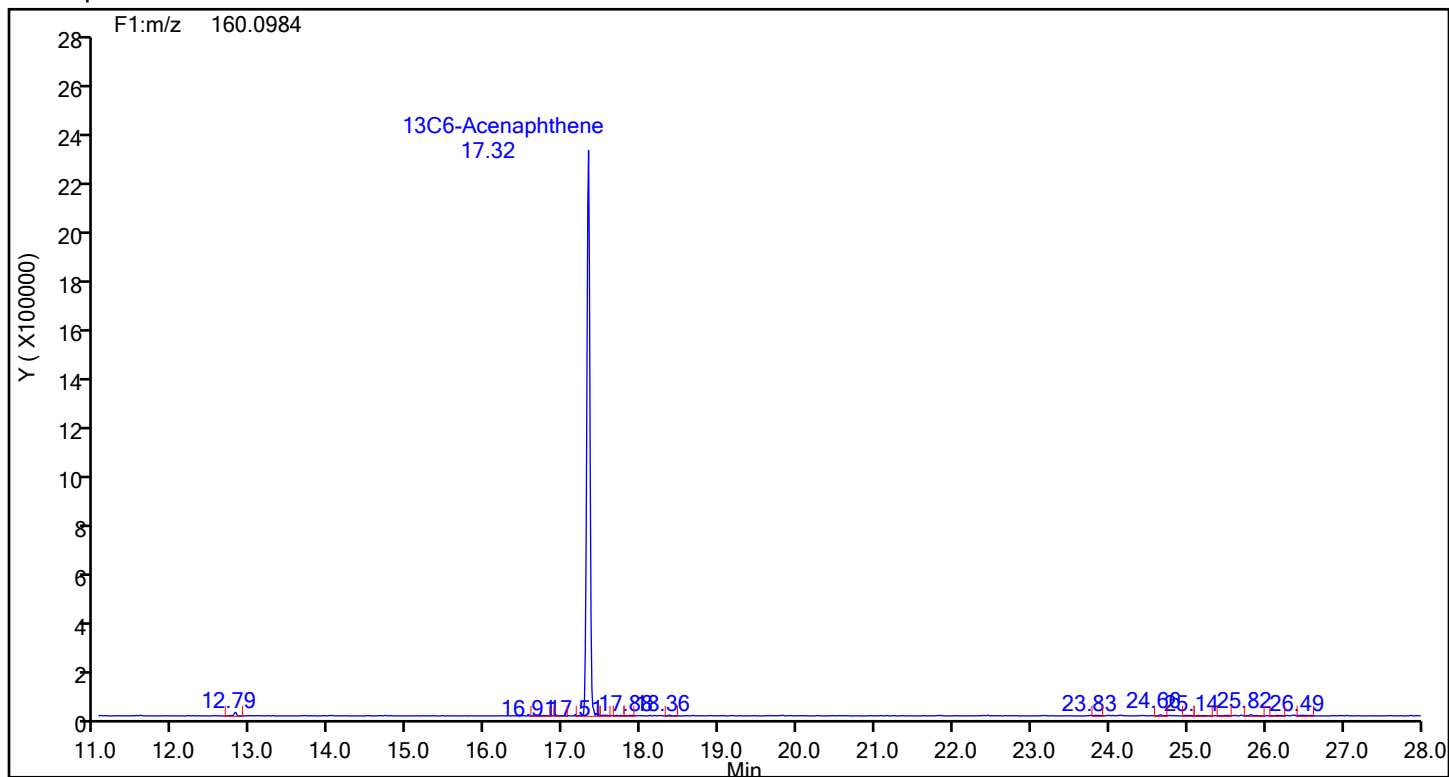
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



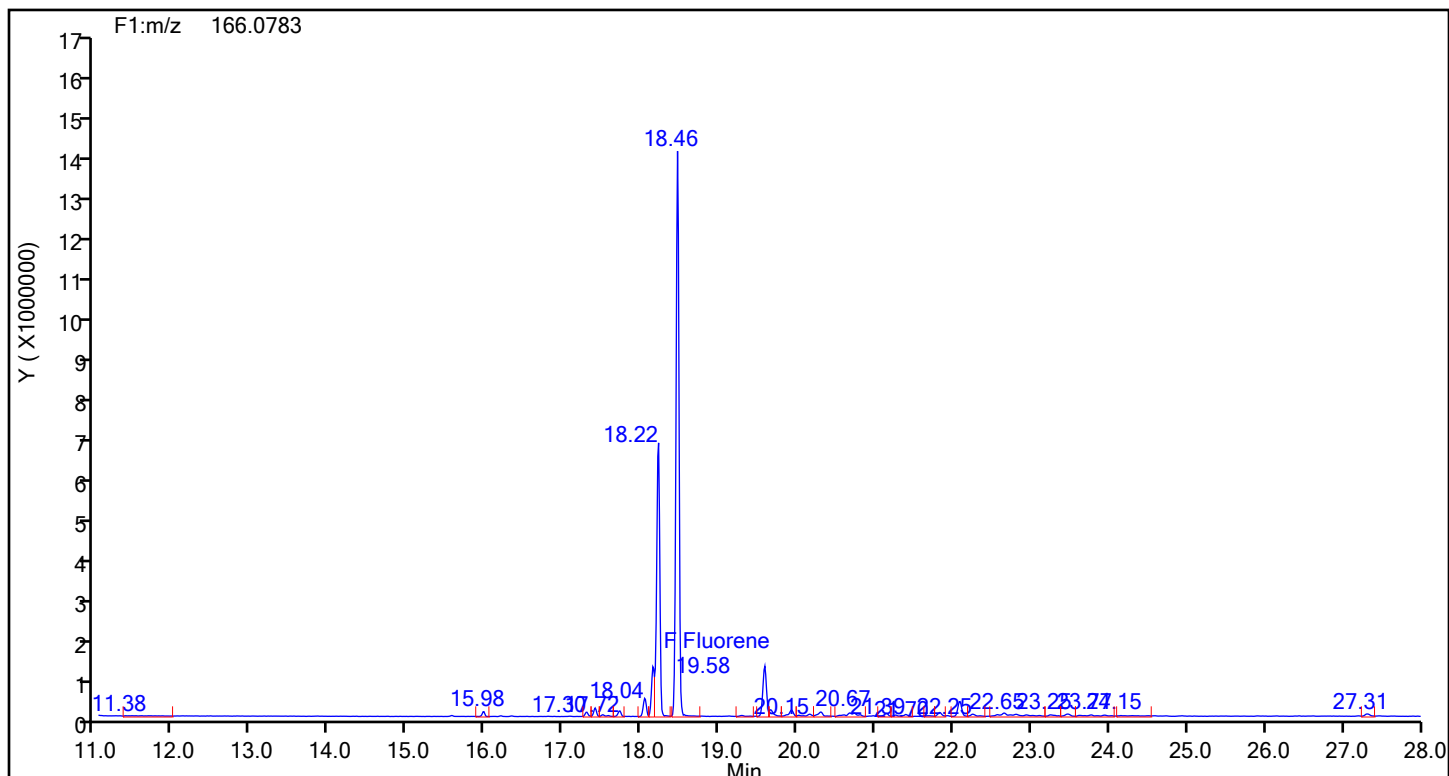
Acenaphthene Standards



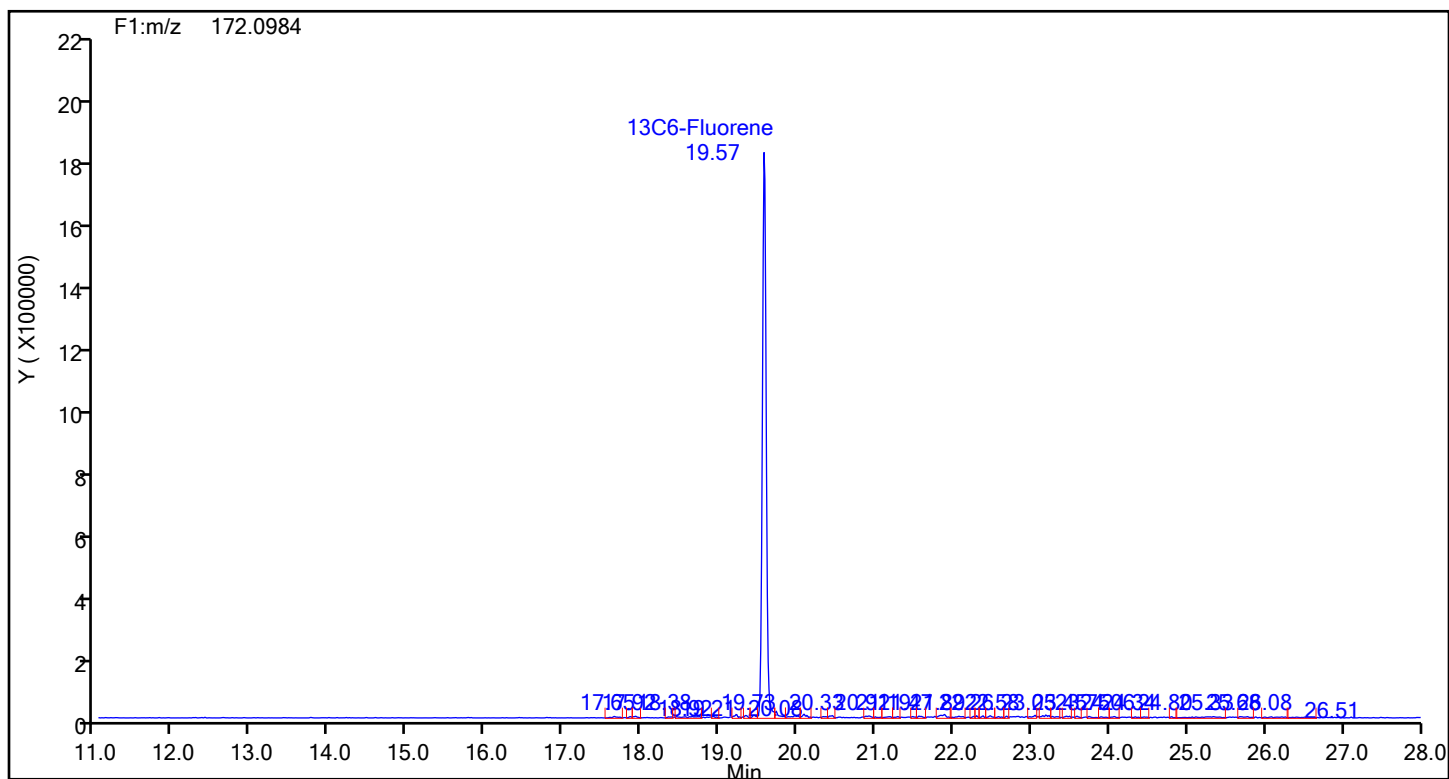
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



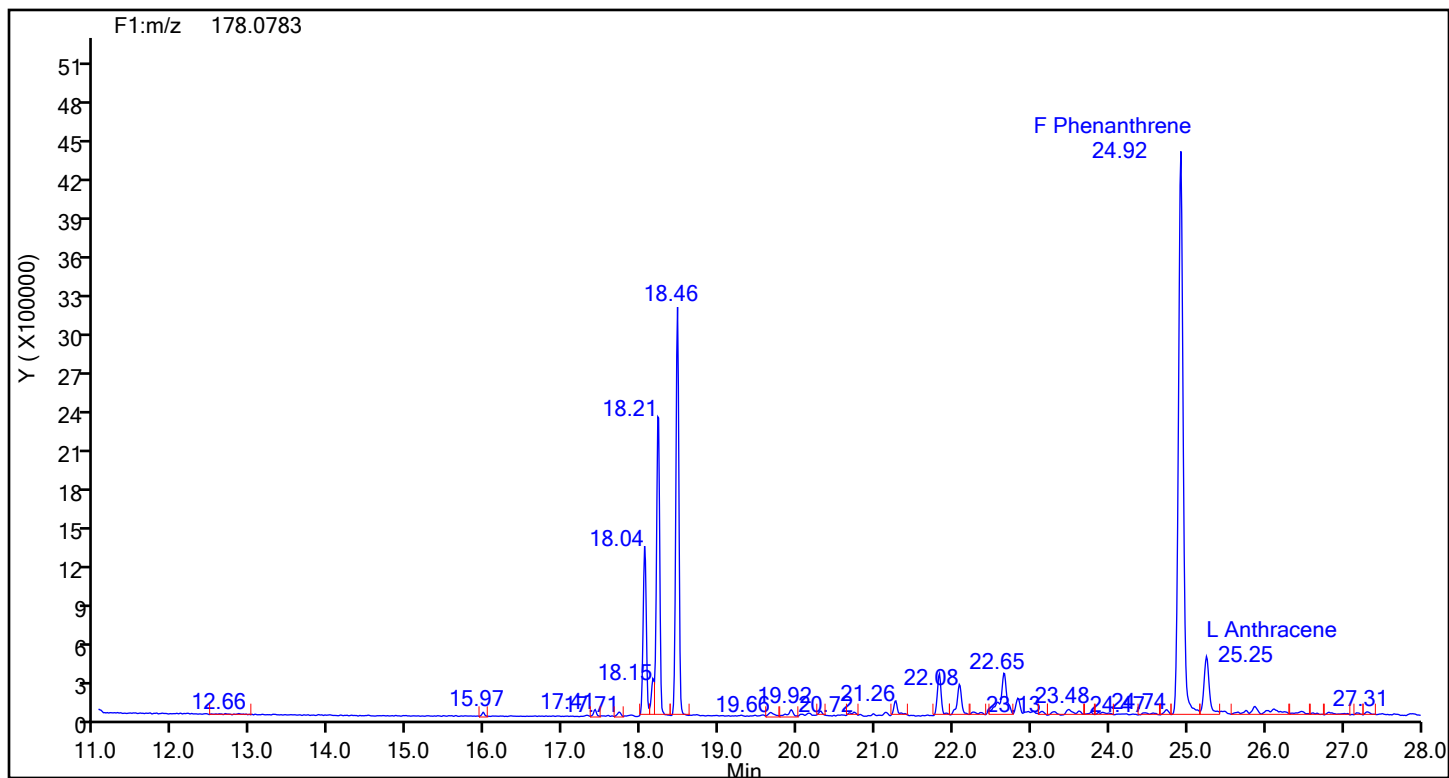
Fluorene Standards



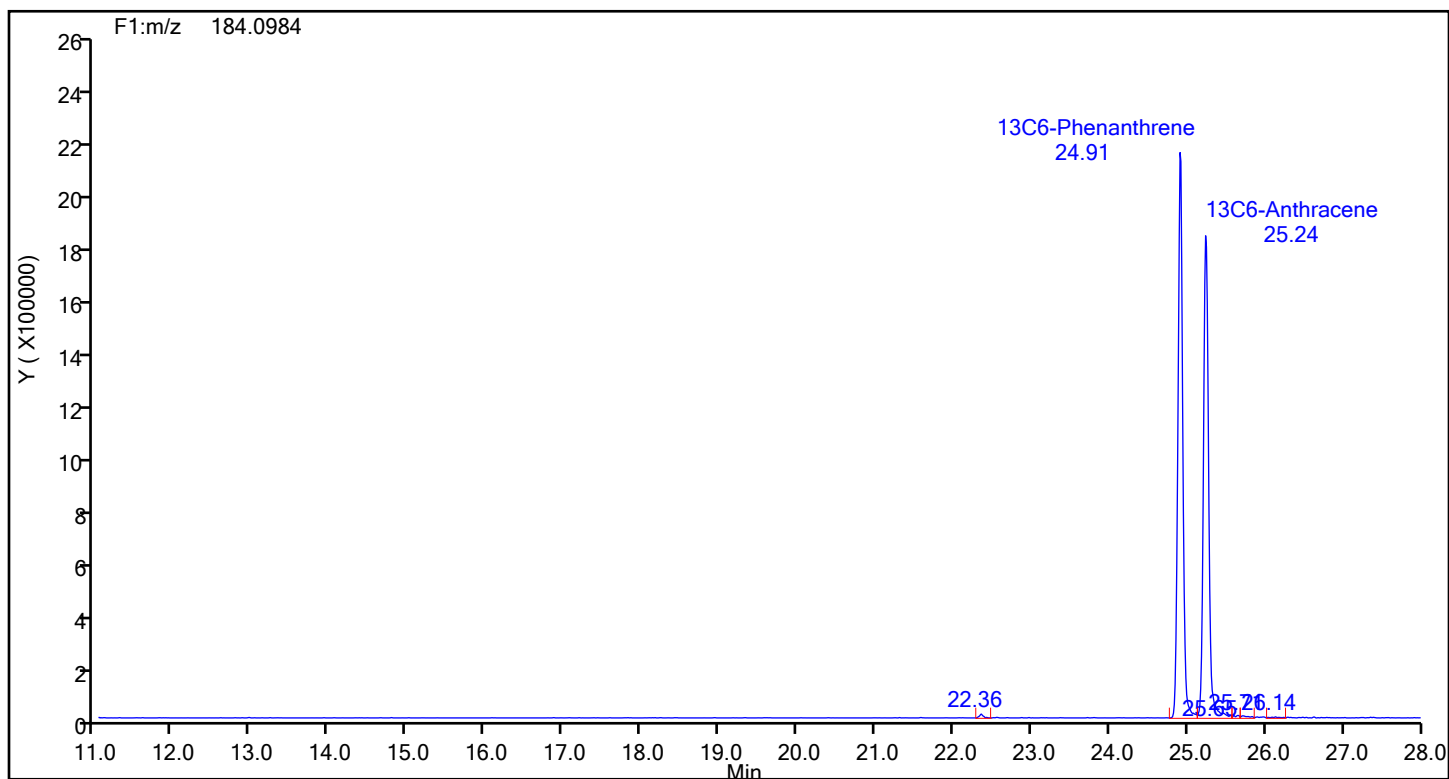
Eurofins Knoxville

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Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

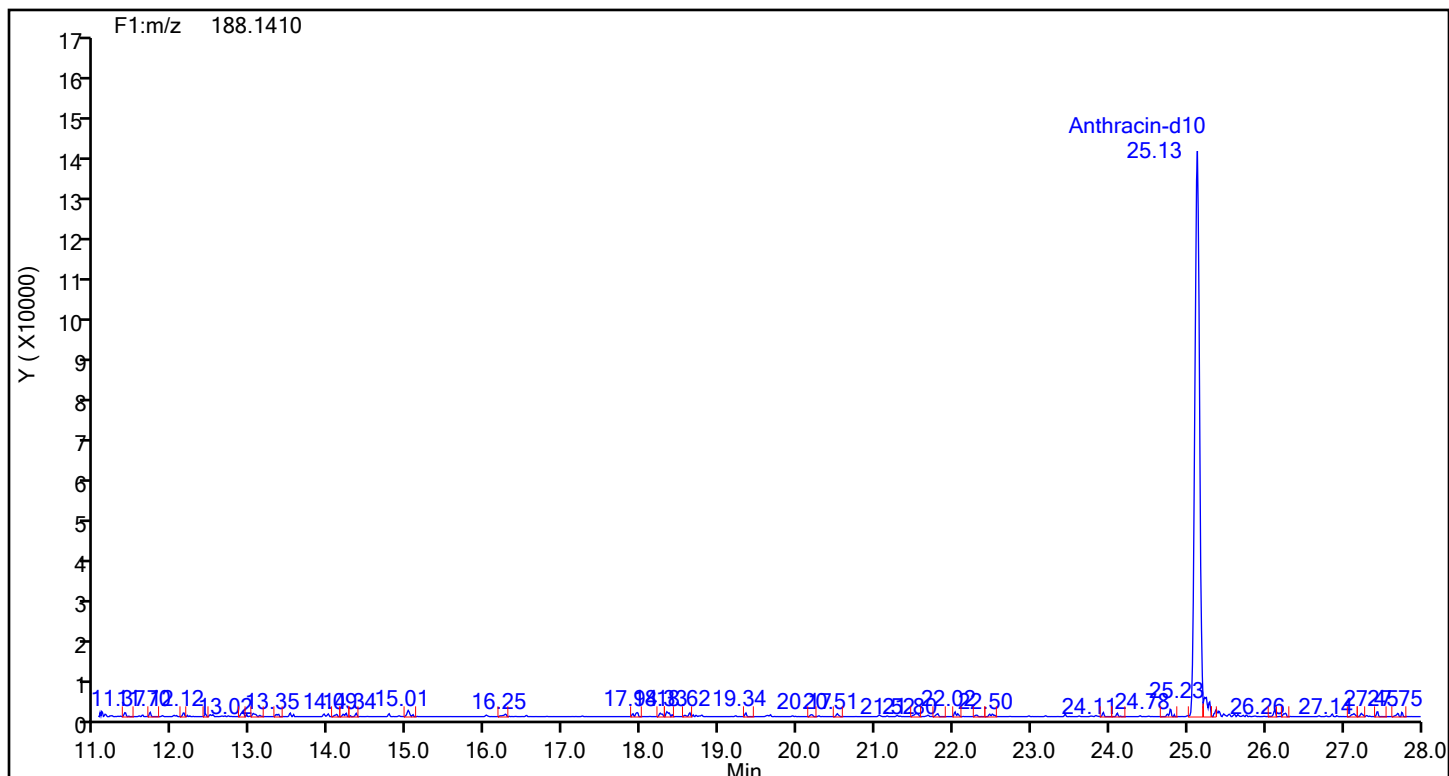


Phenanthrene Standards

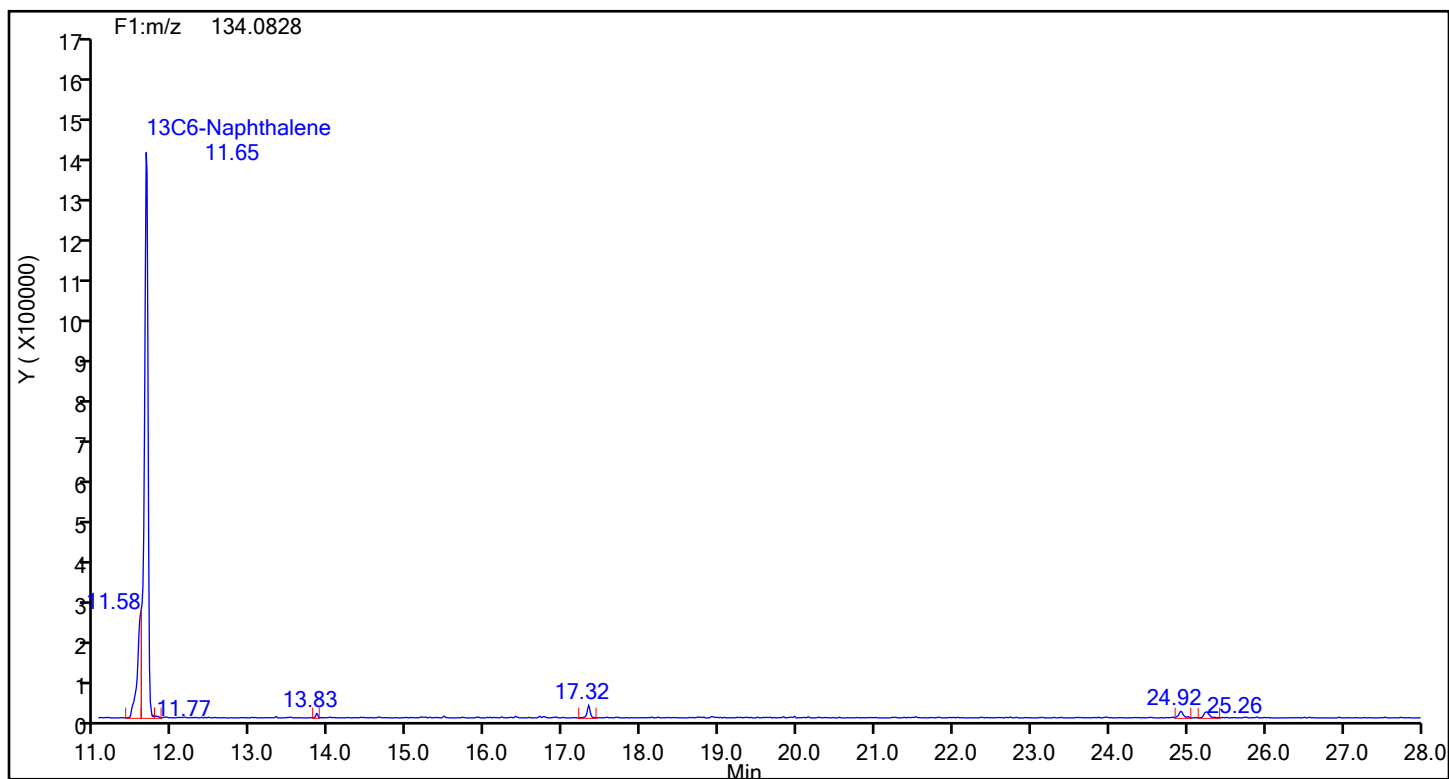


Eurofins Knoxville

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Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

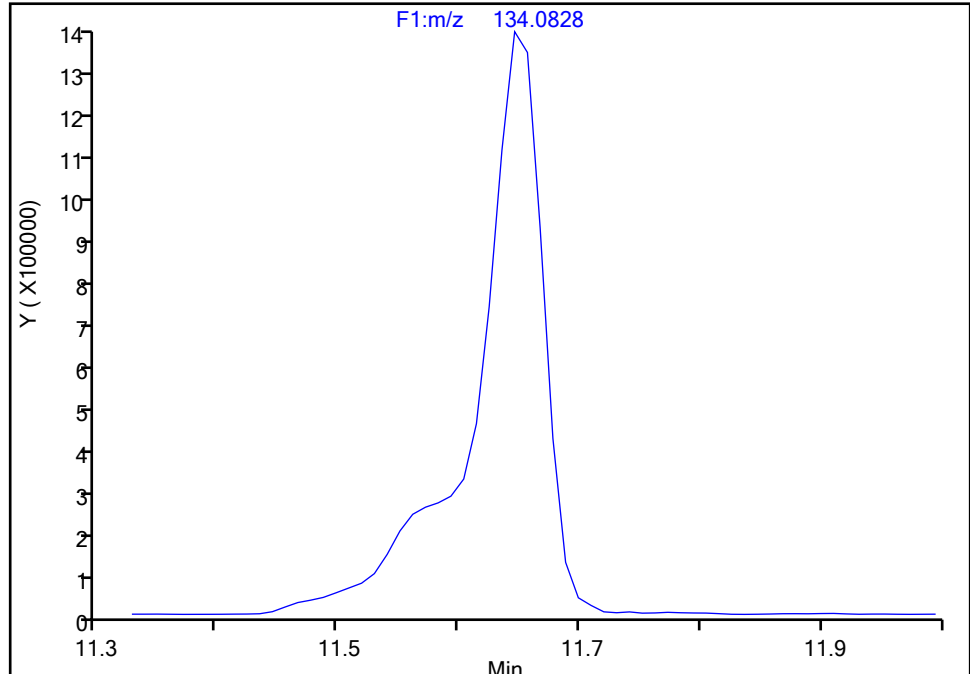
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Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

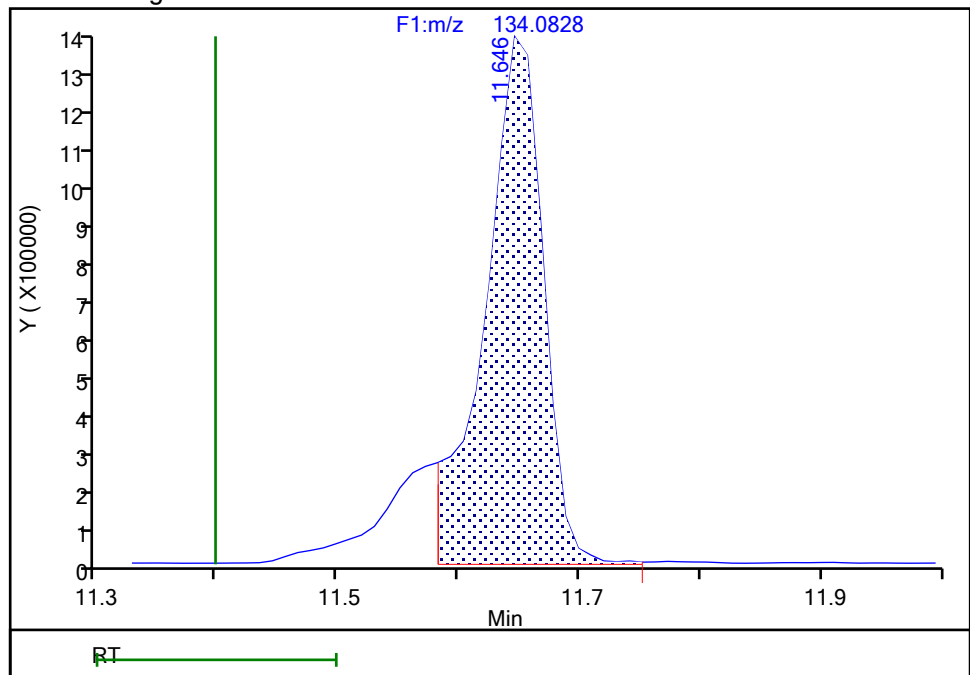
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.65
Area: 4619787
Amount: 1.589756
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:27:40 -04:00:00 (UTC)

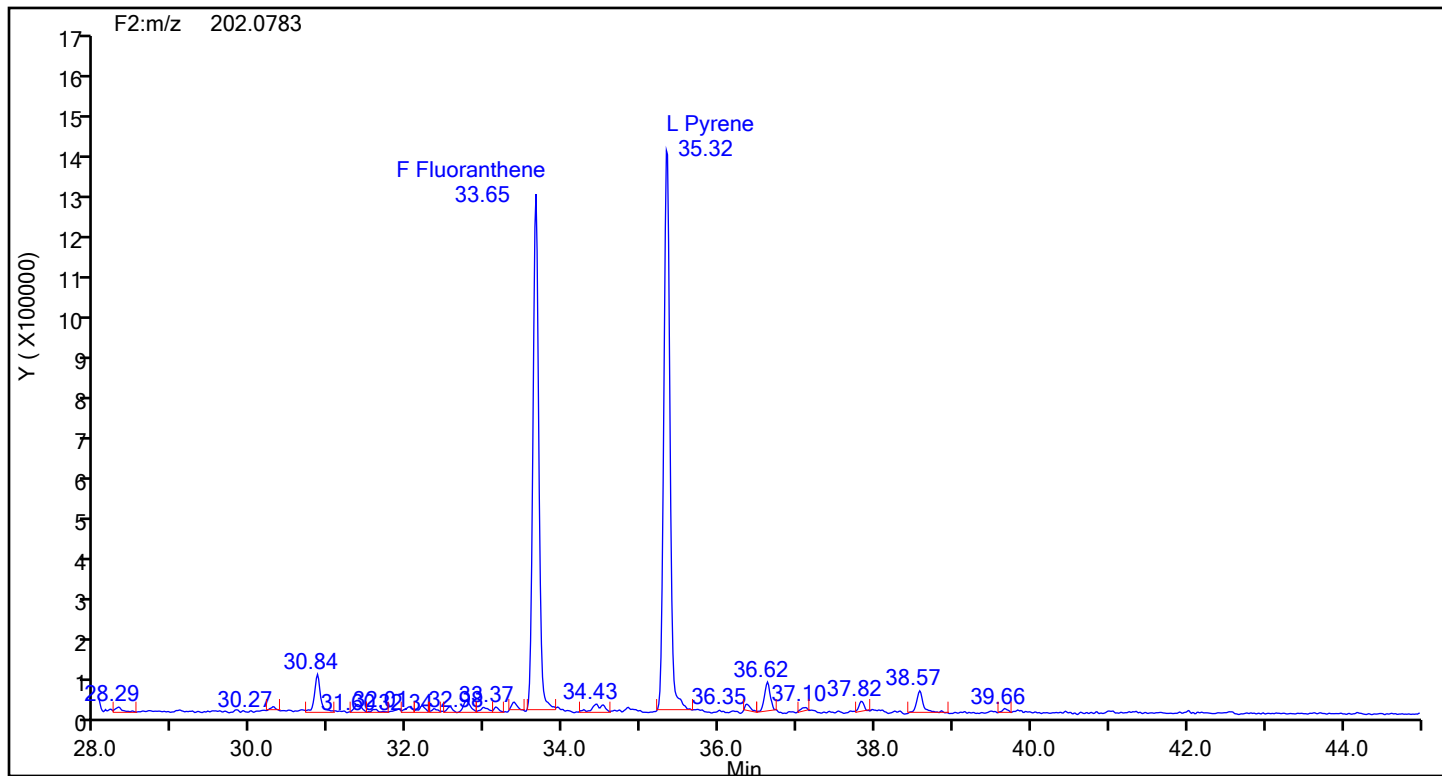
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

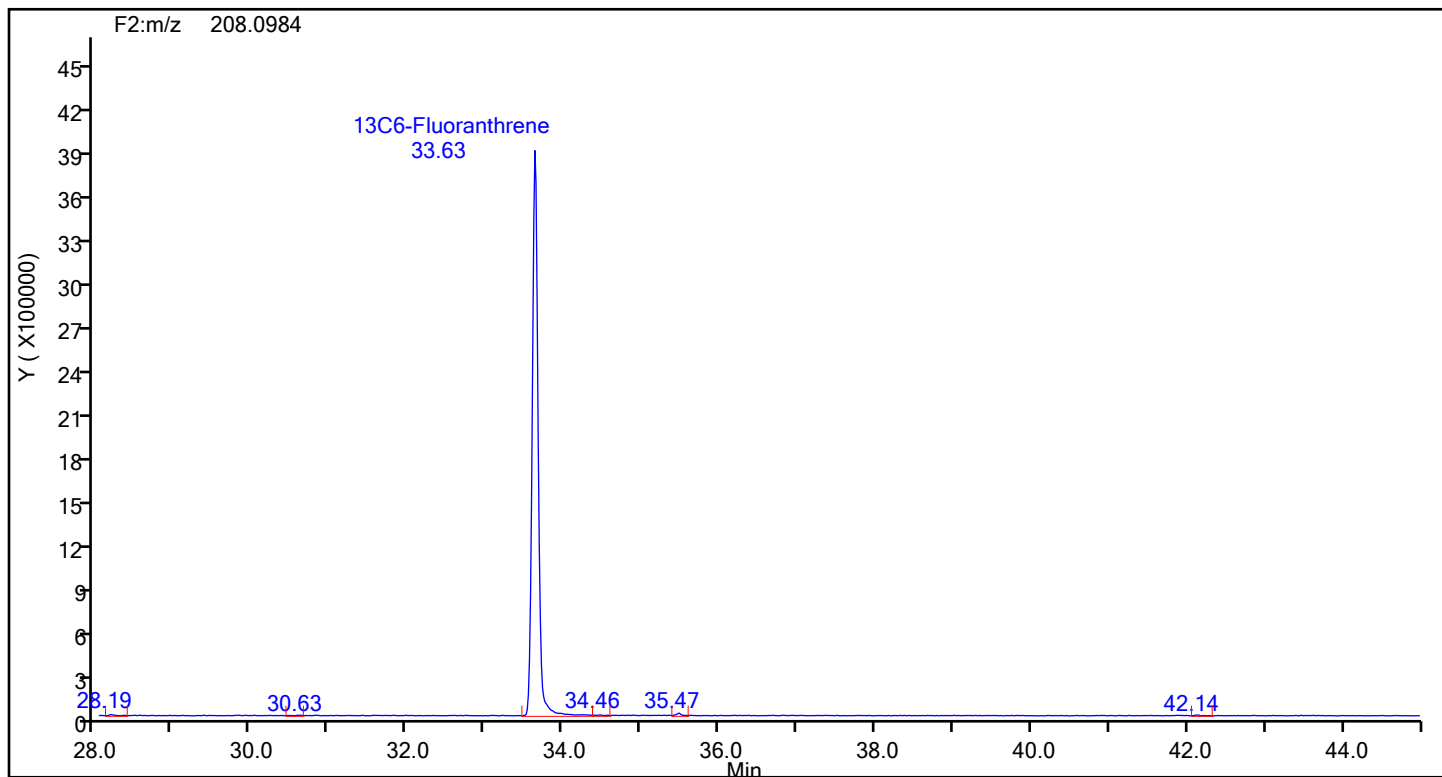
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



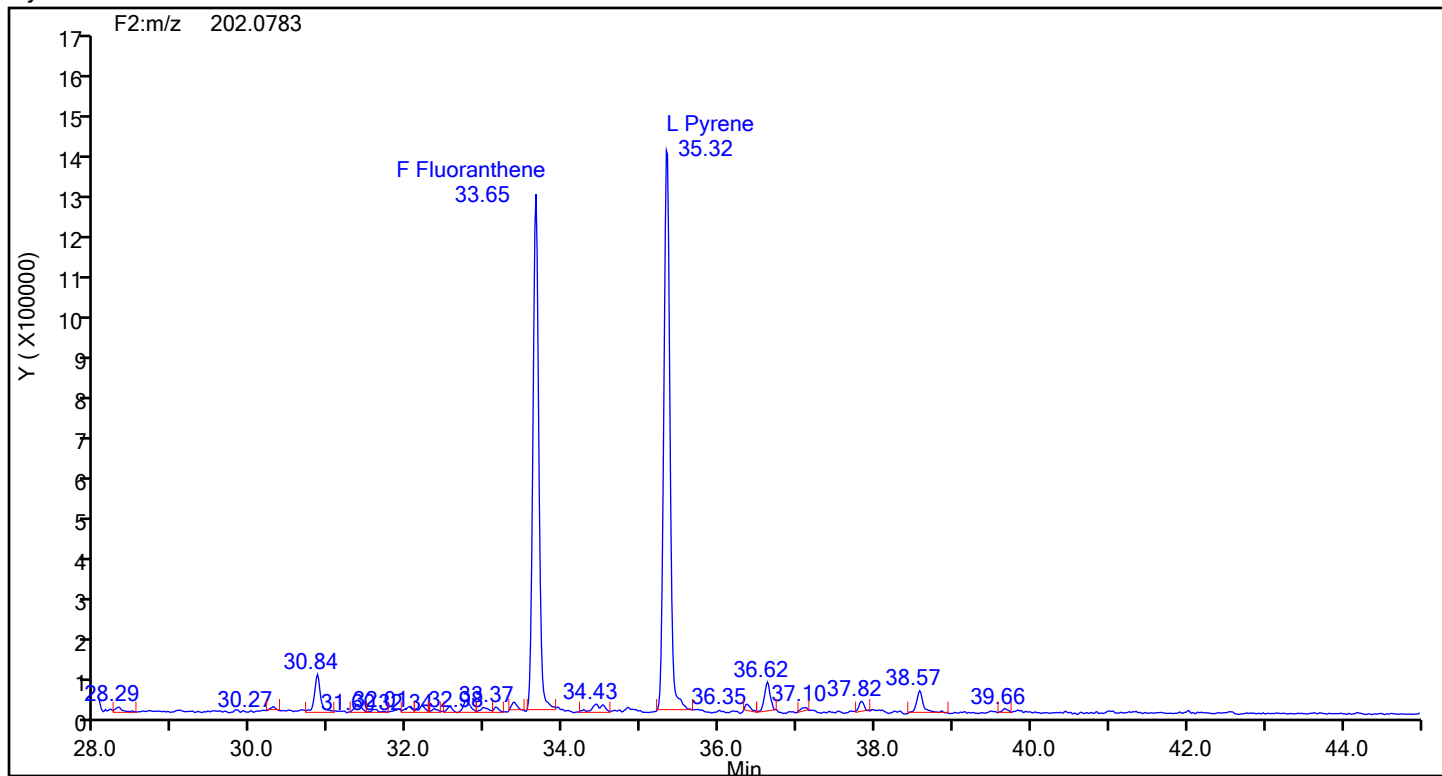
Fluoranthene Standards



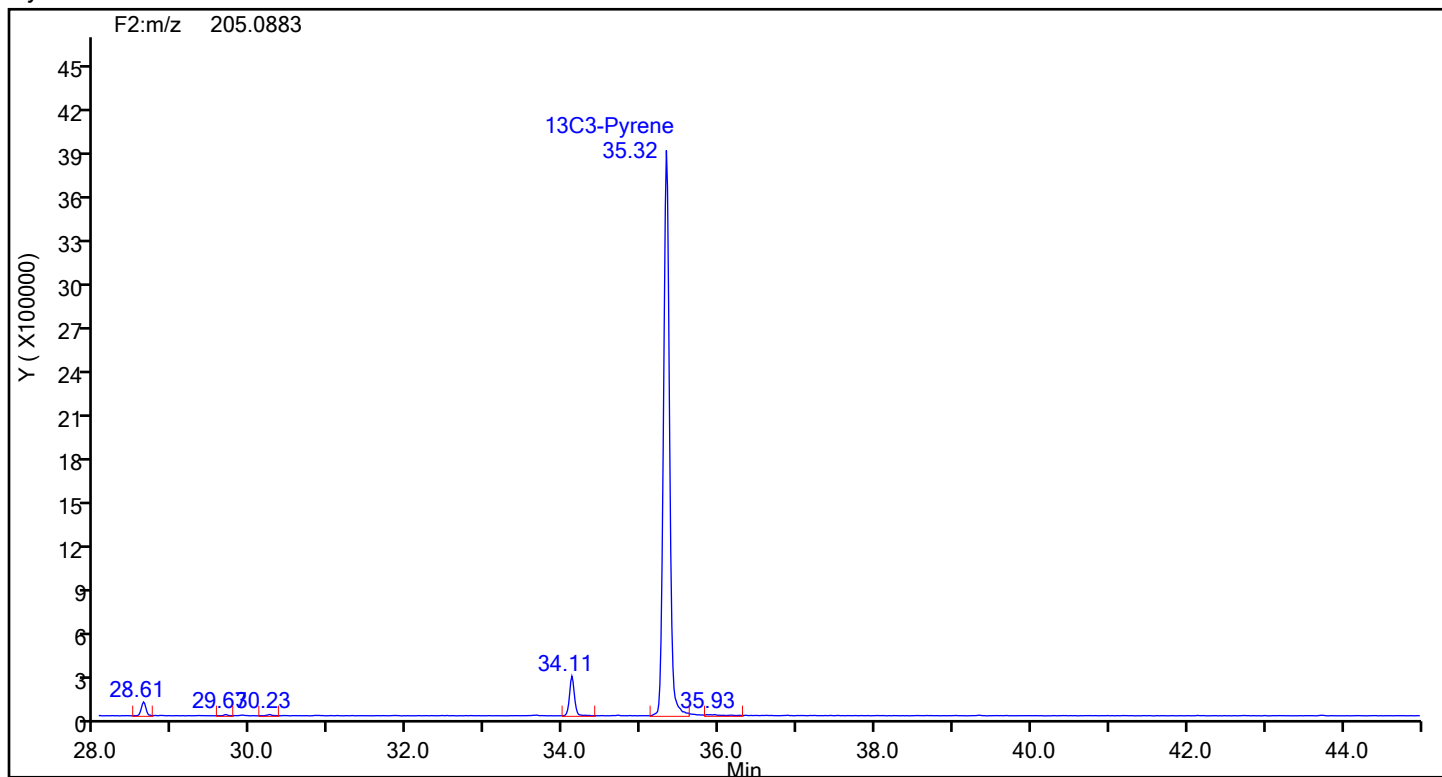
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



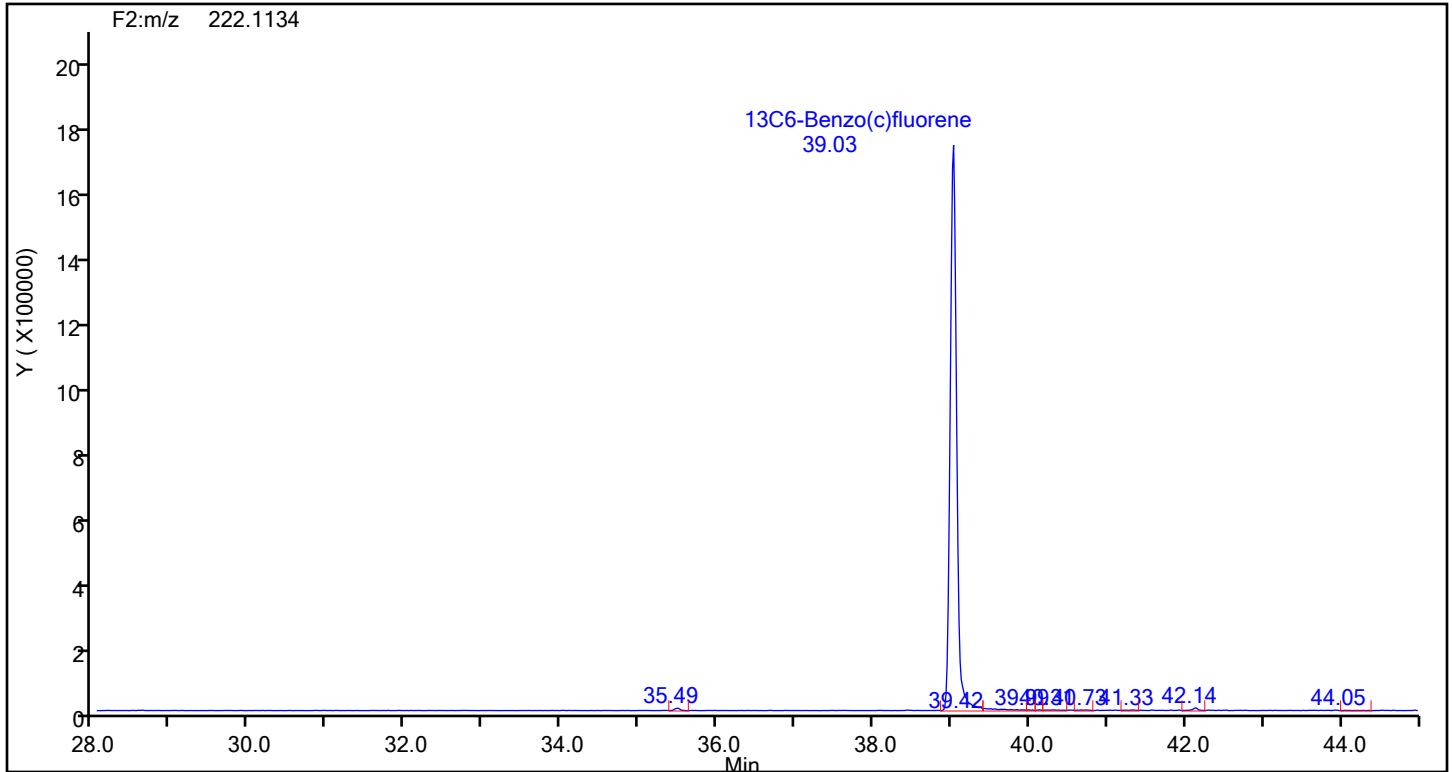
Pyrene Standards



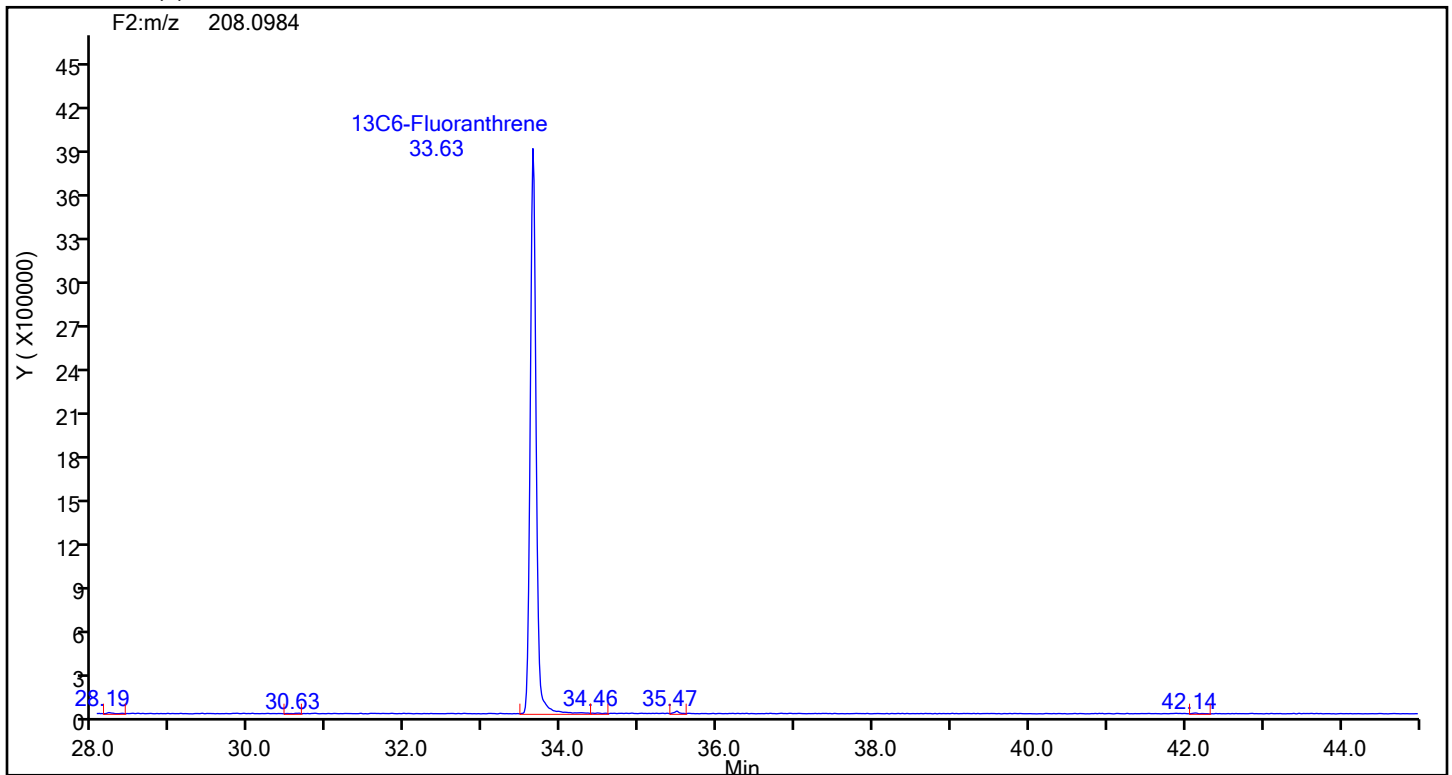
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



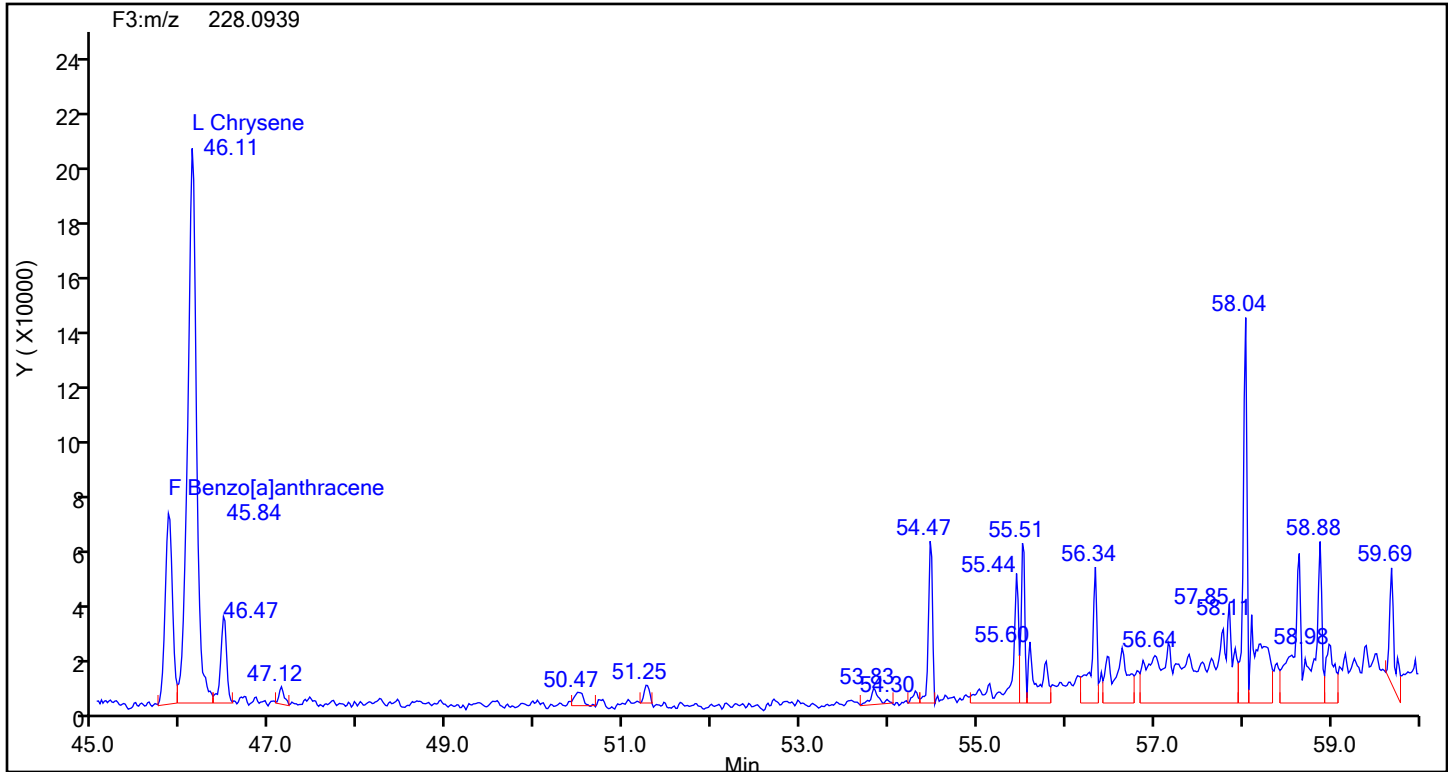
13C6-Benzo(c)fluorene Standards



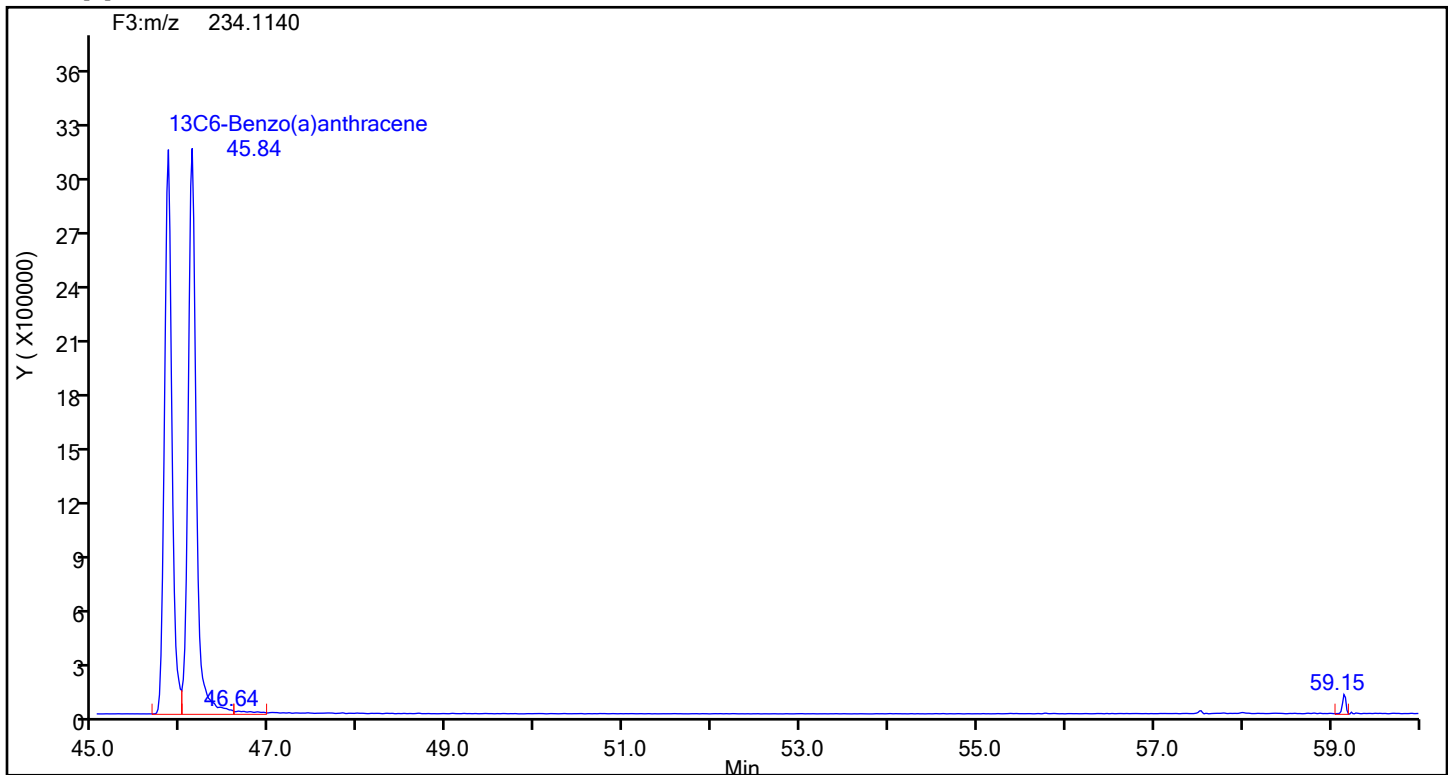
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



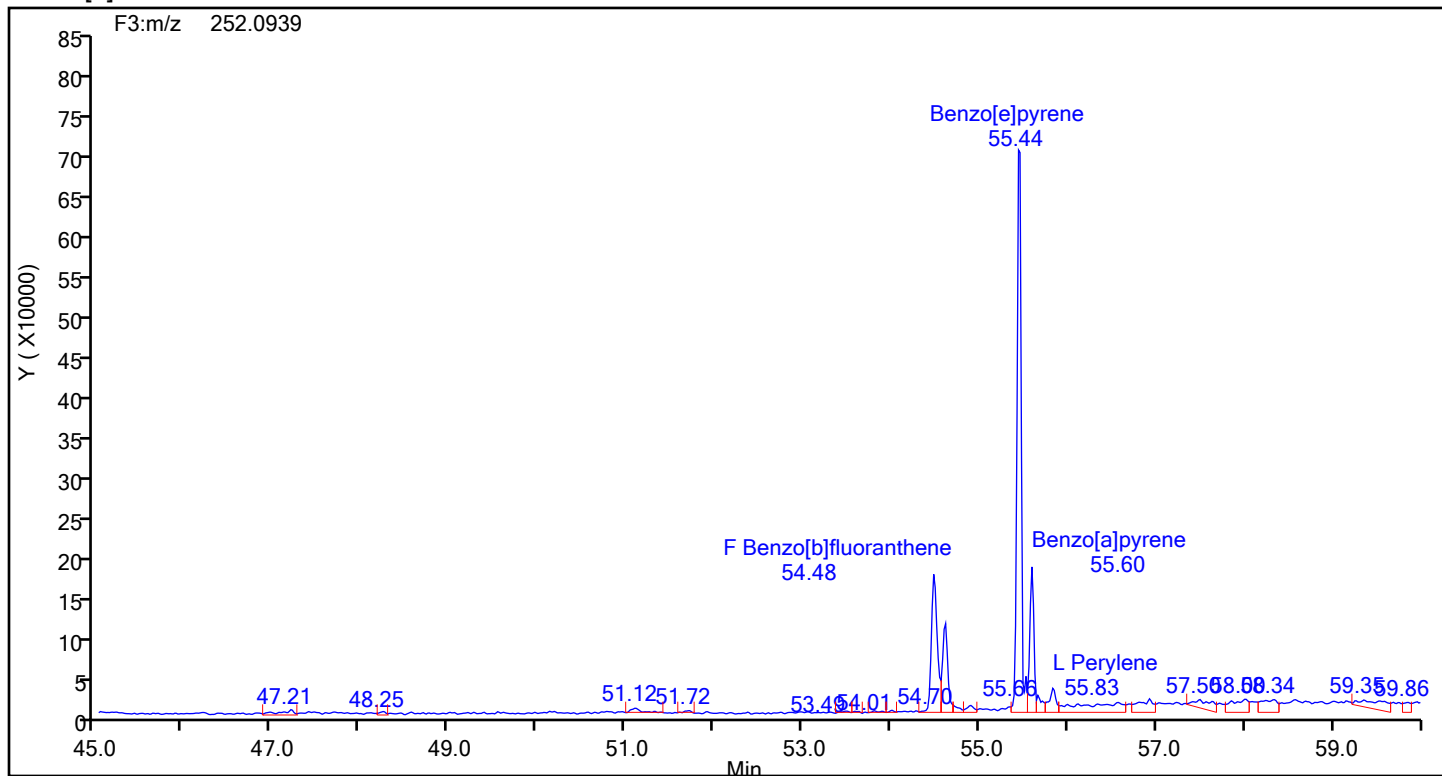
Benzo[a]anthracene Standards



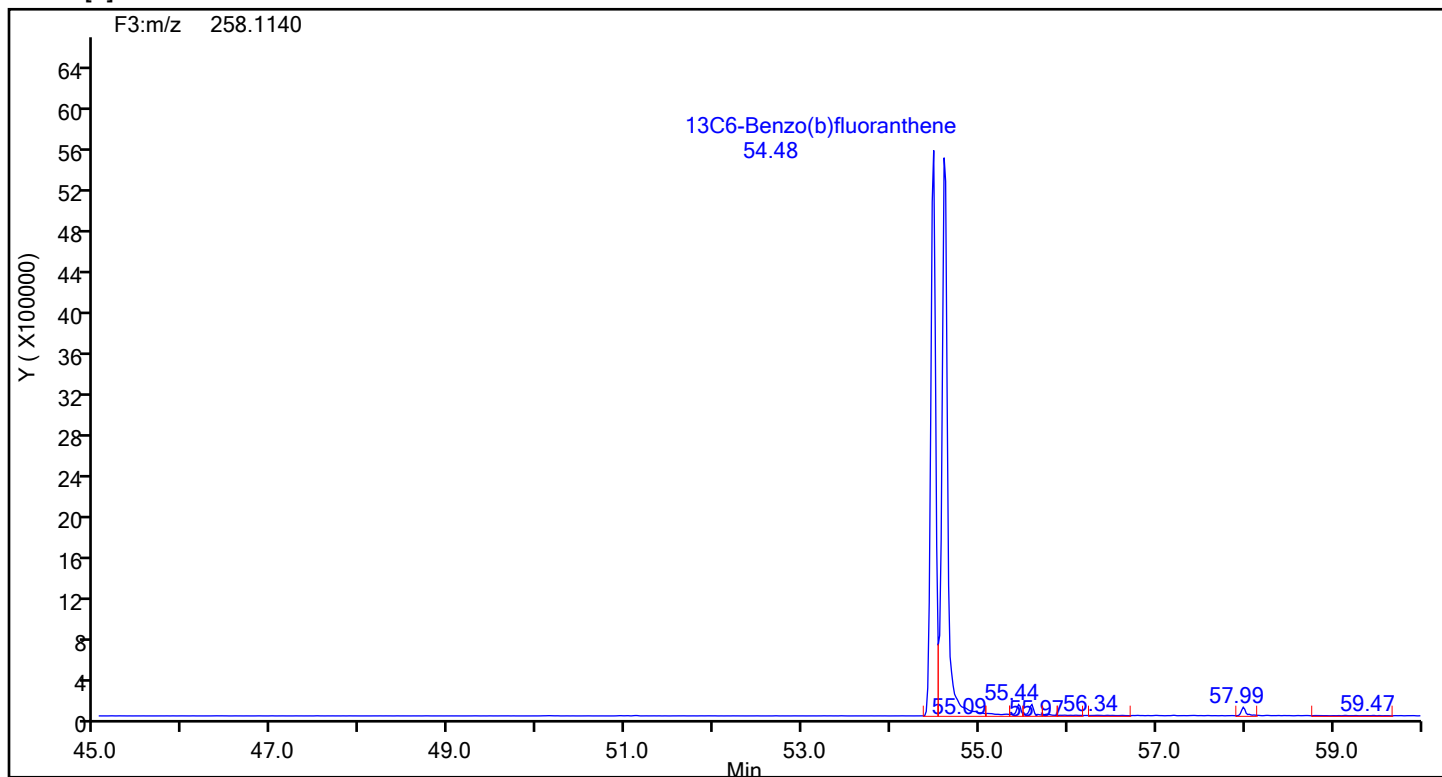
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

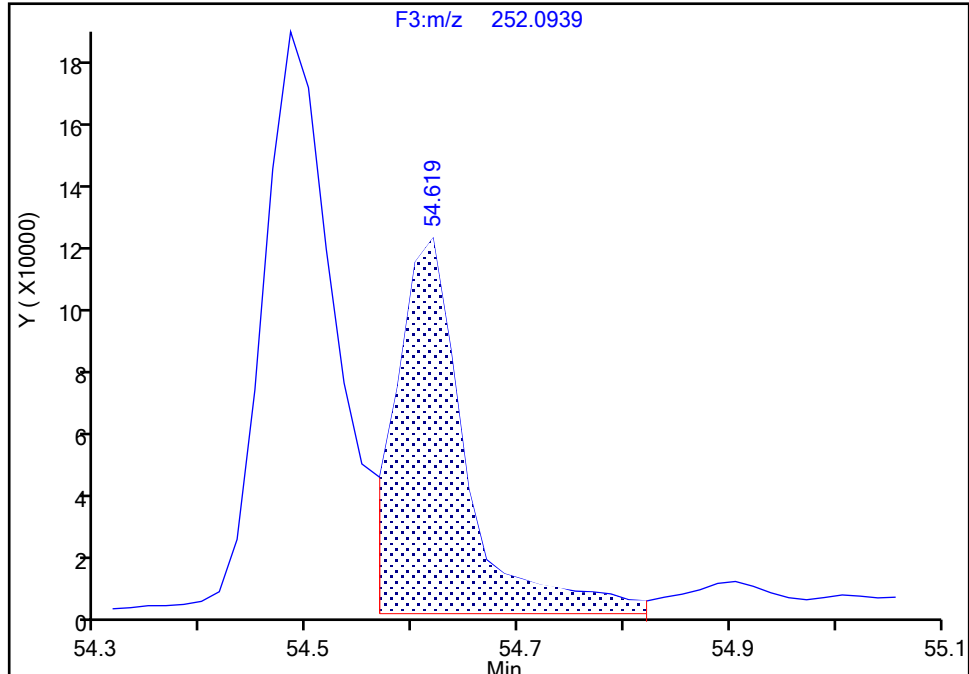
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Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

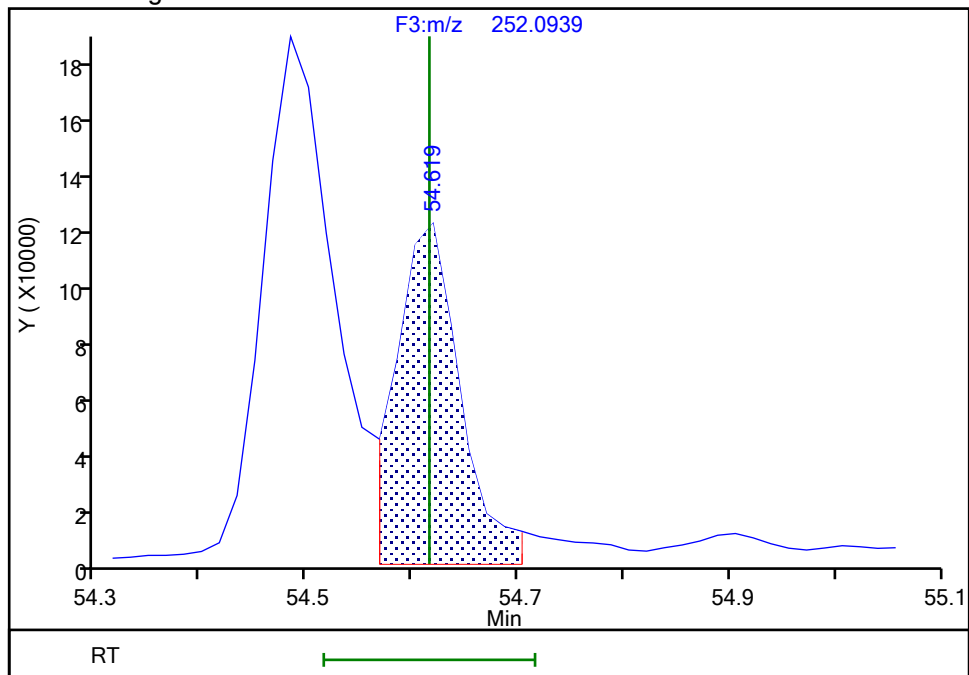
RT: 54.62
Area: 501740
Amount: 0.178526
Amount Units: pg/ul

Processing Integration Results



RT: 54.62
Area: 479586
Amount: 0.170643
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:07 -04:00:00 (UTC)

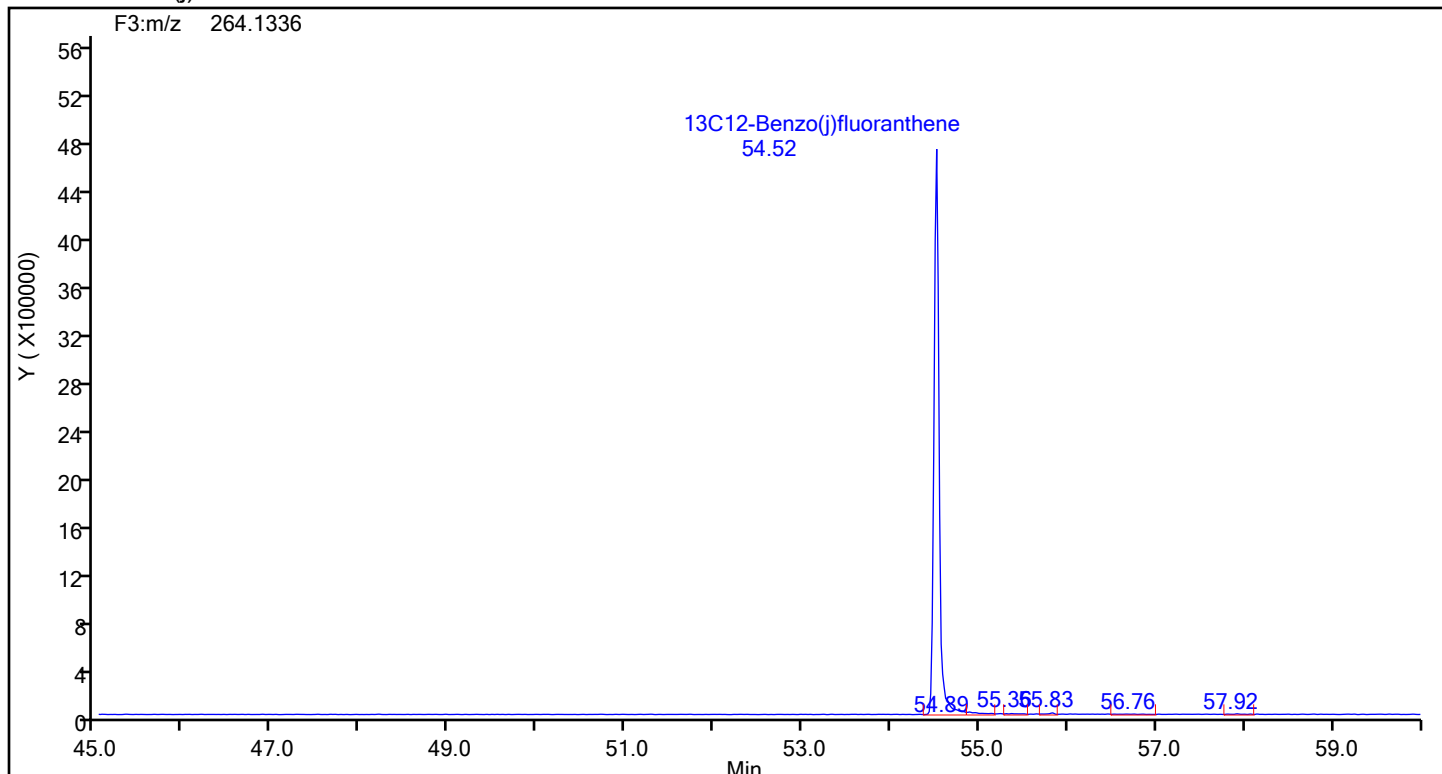
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

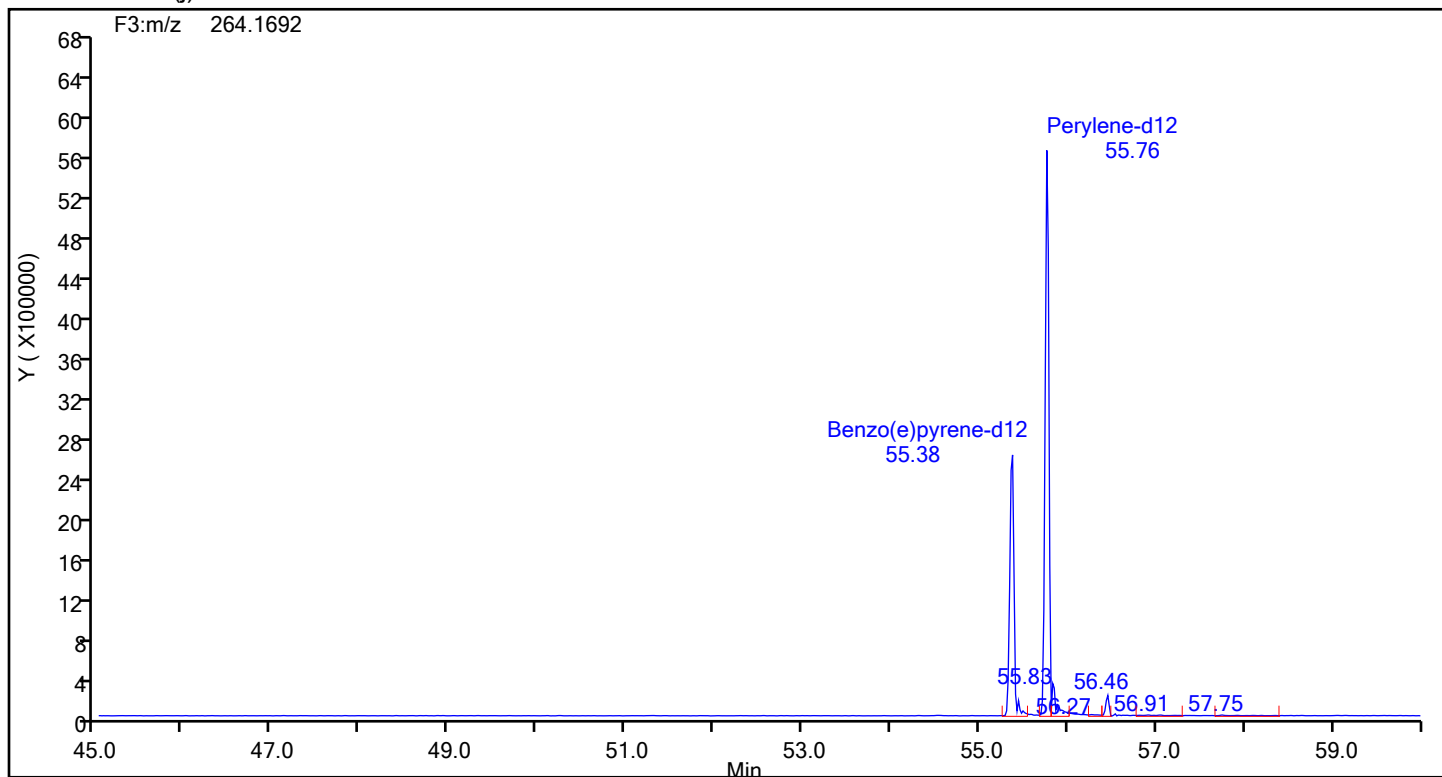
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



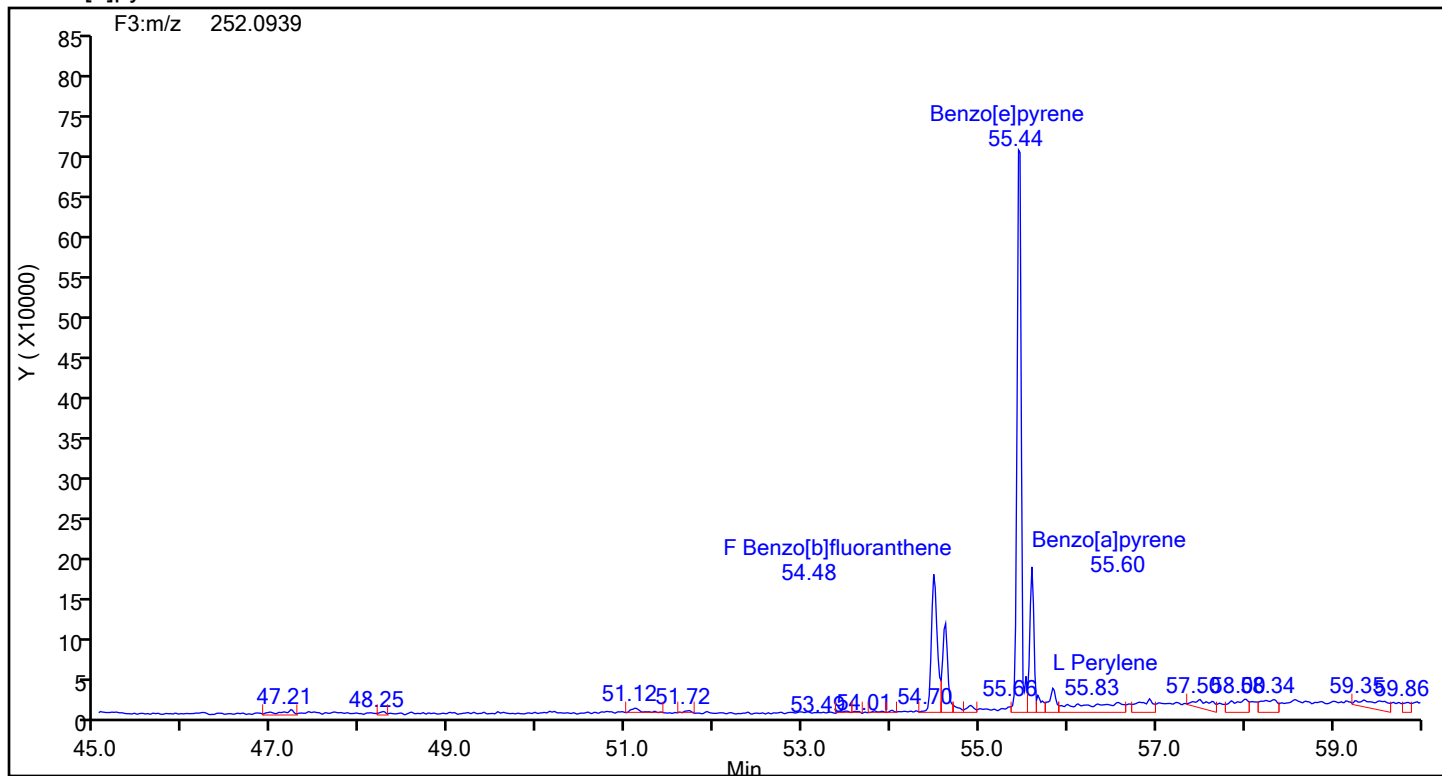
13C12-Benzo(j)fluoranthene Standards



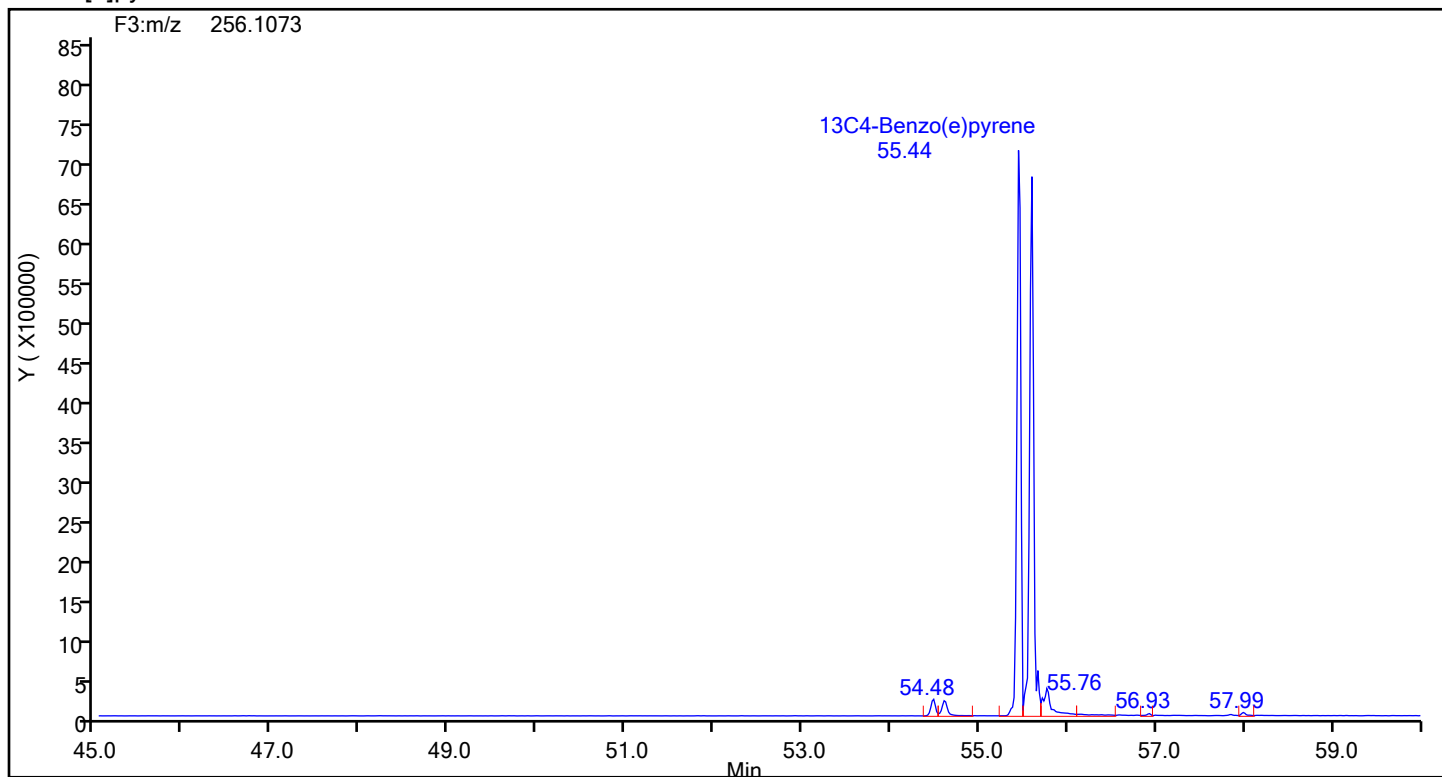
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

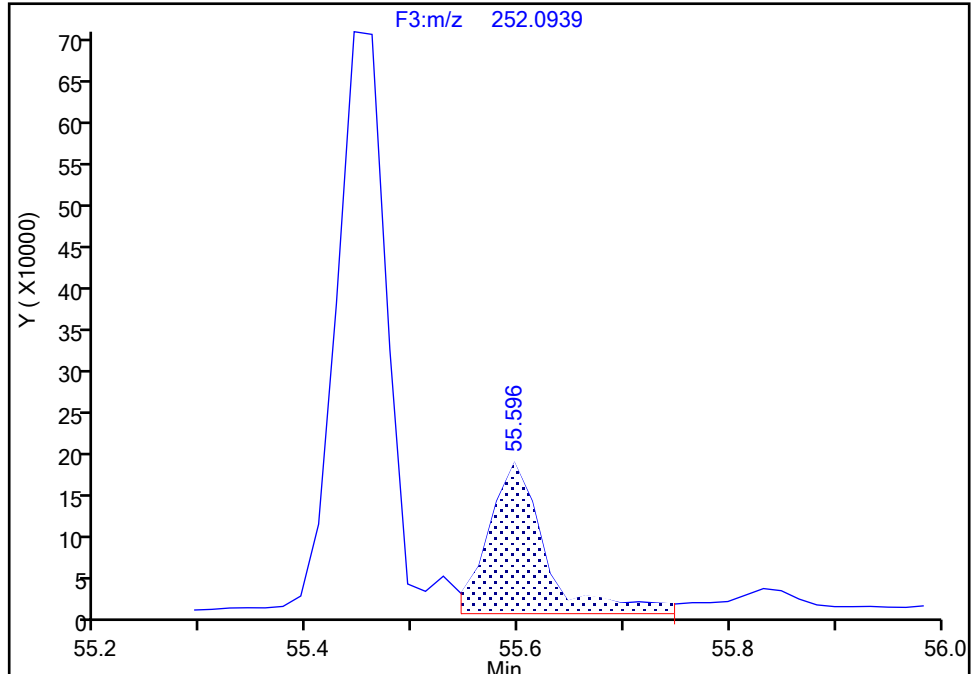
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

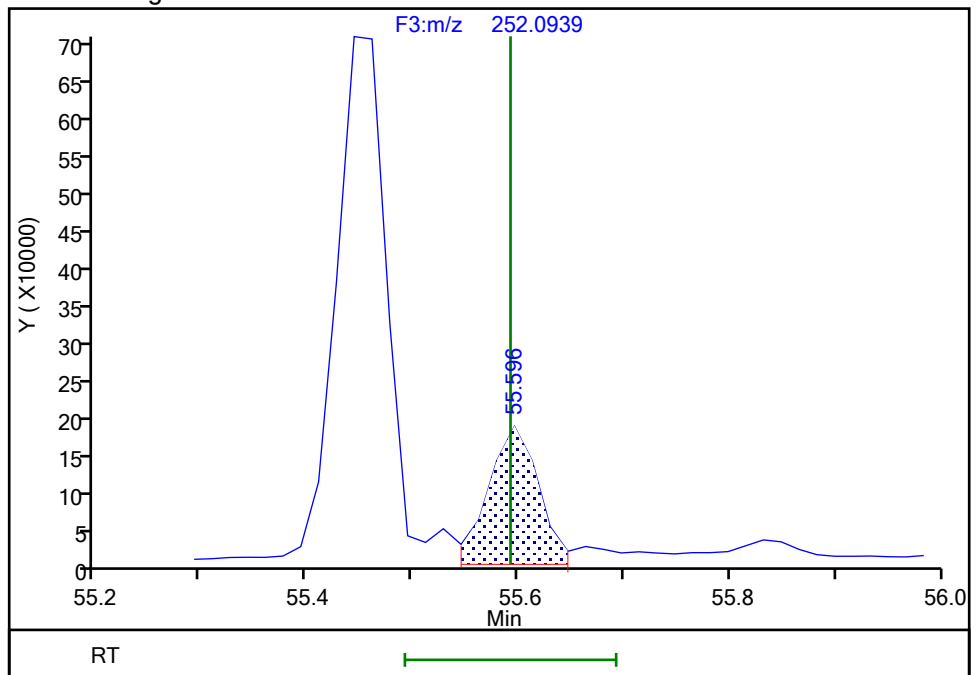
RT: 55.60
Area: 680693
Amount: 0.273737
Amount Units: pg/ul

Processing Integration Results



RT: 55.60
Area: 603495
Amount: 0.242693
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:28:59 -04:00:00 (UTC)

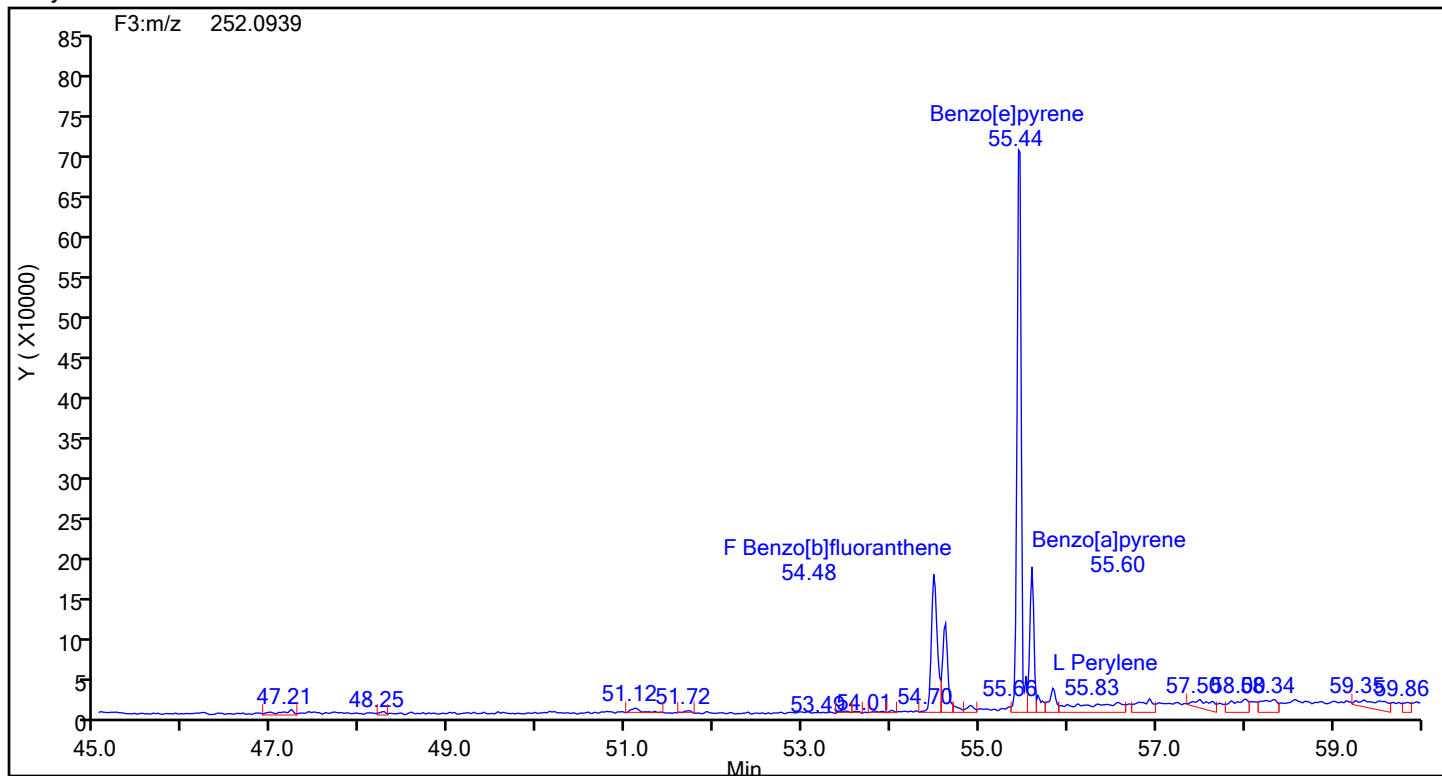
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

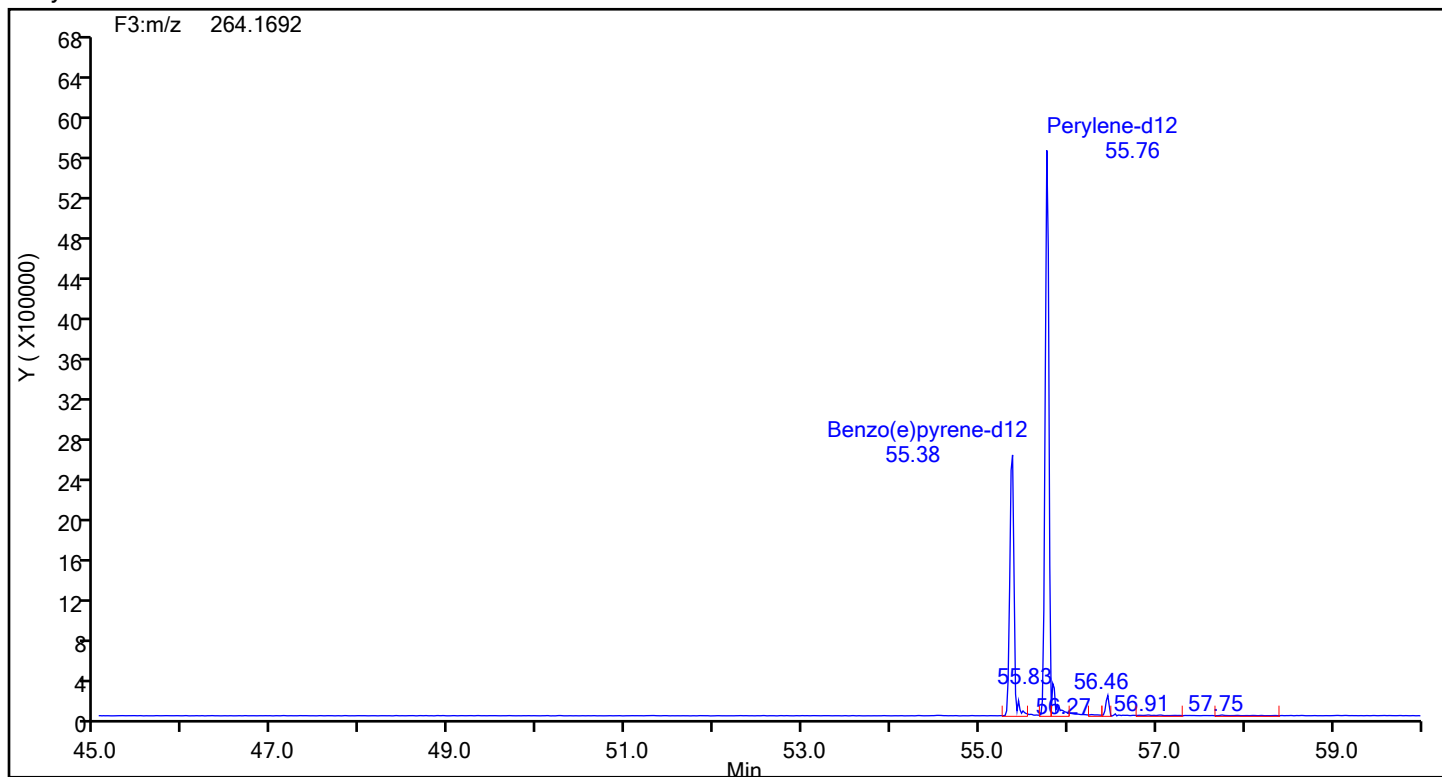
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

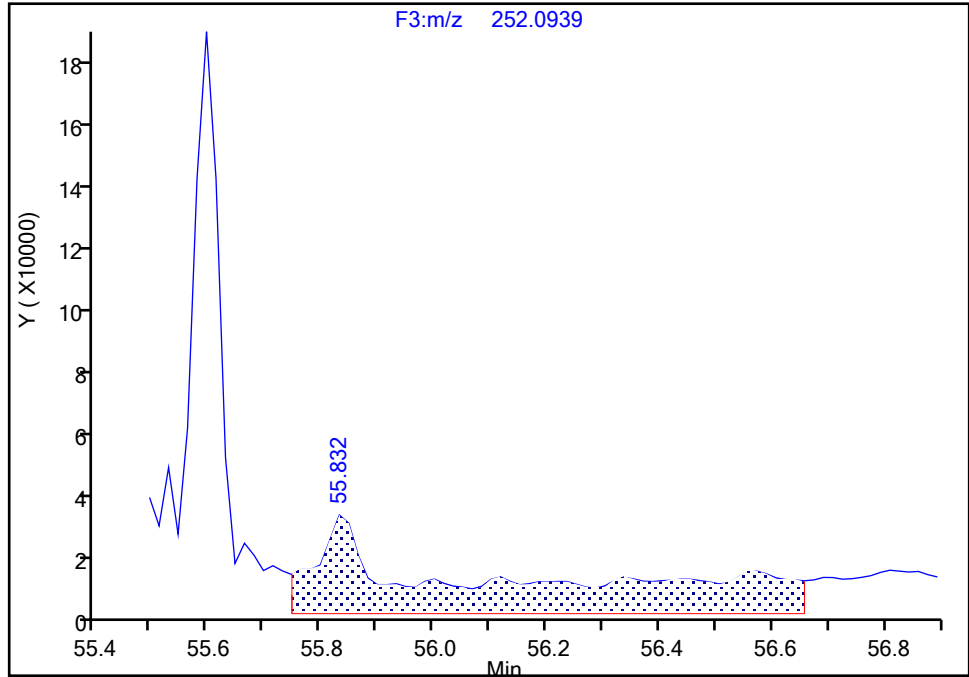
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

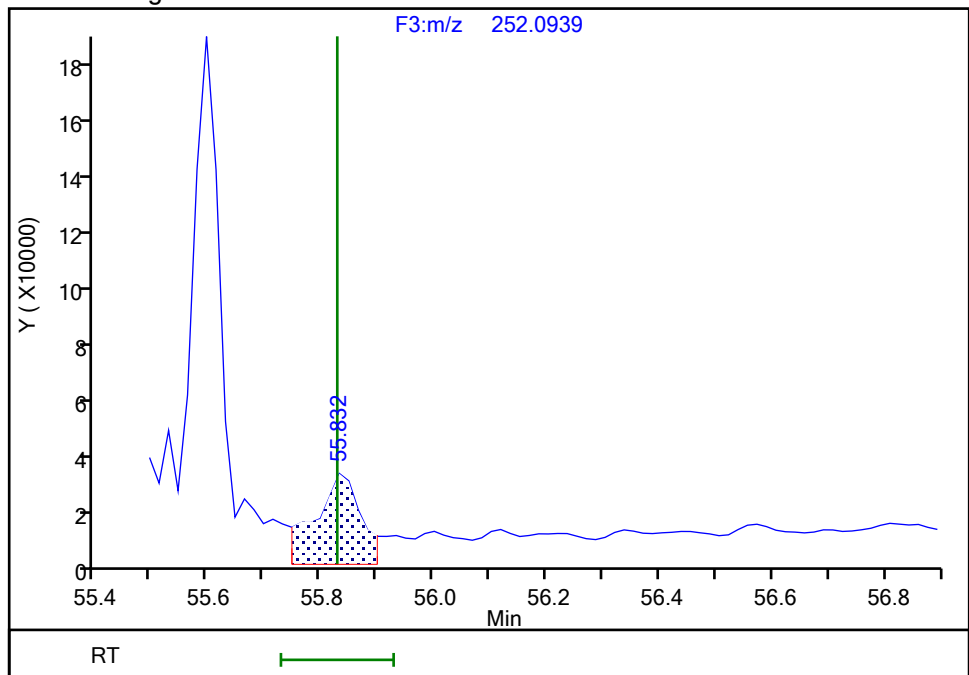
RT: 55.83
Area: 627950
Amount: 0.265155
Amount Units: pg/ul

Processing Integration Results



RT: 55.83
Area: 178161
Amount: 0.075229
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:28:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d

Injection Date: 20-Jul-2024 07:18:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

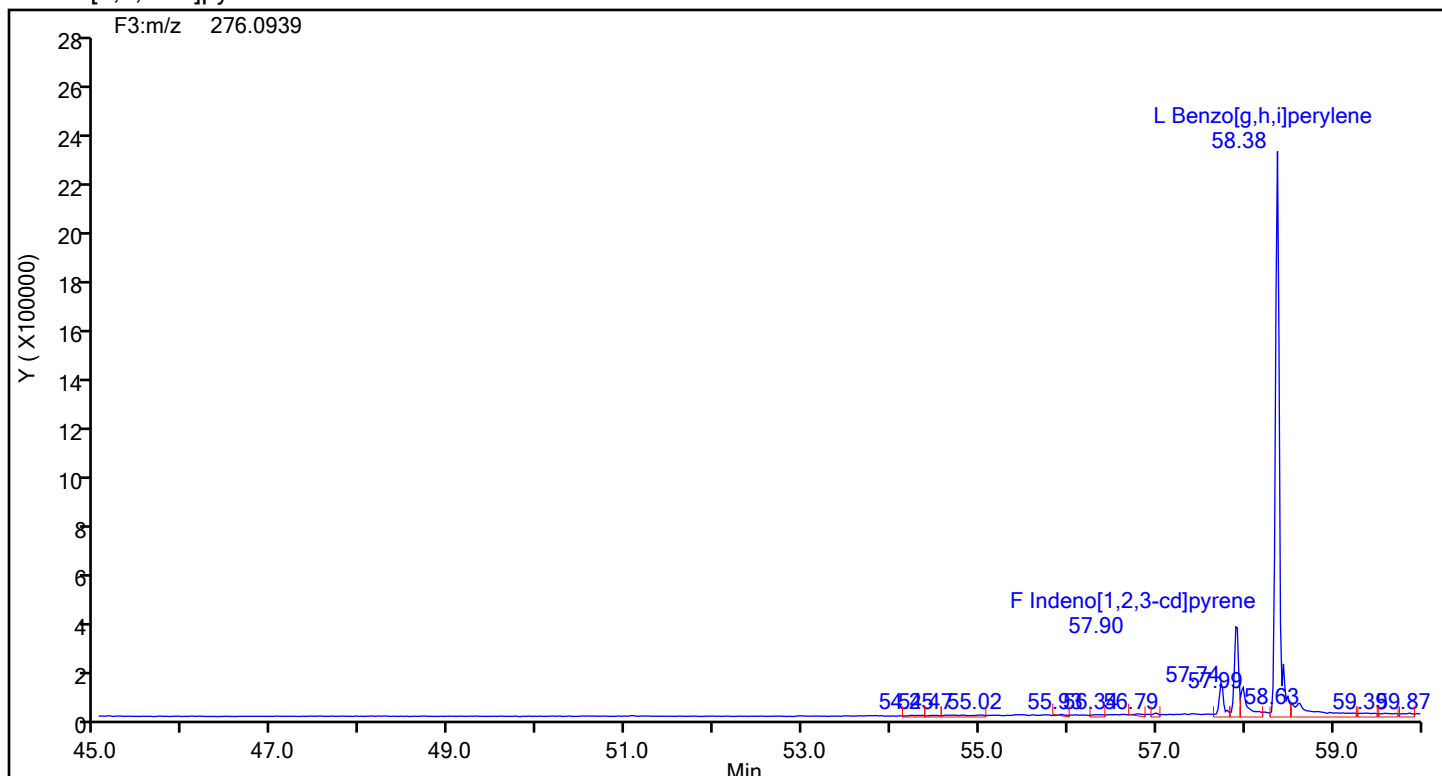
Worklist#: 88999

Sample Line#: 8

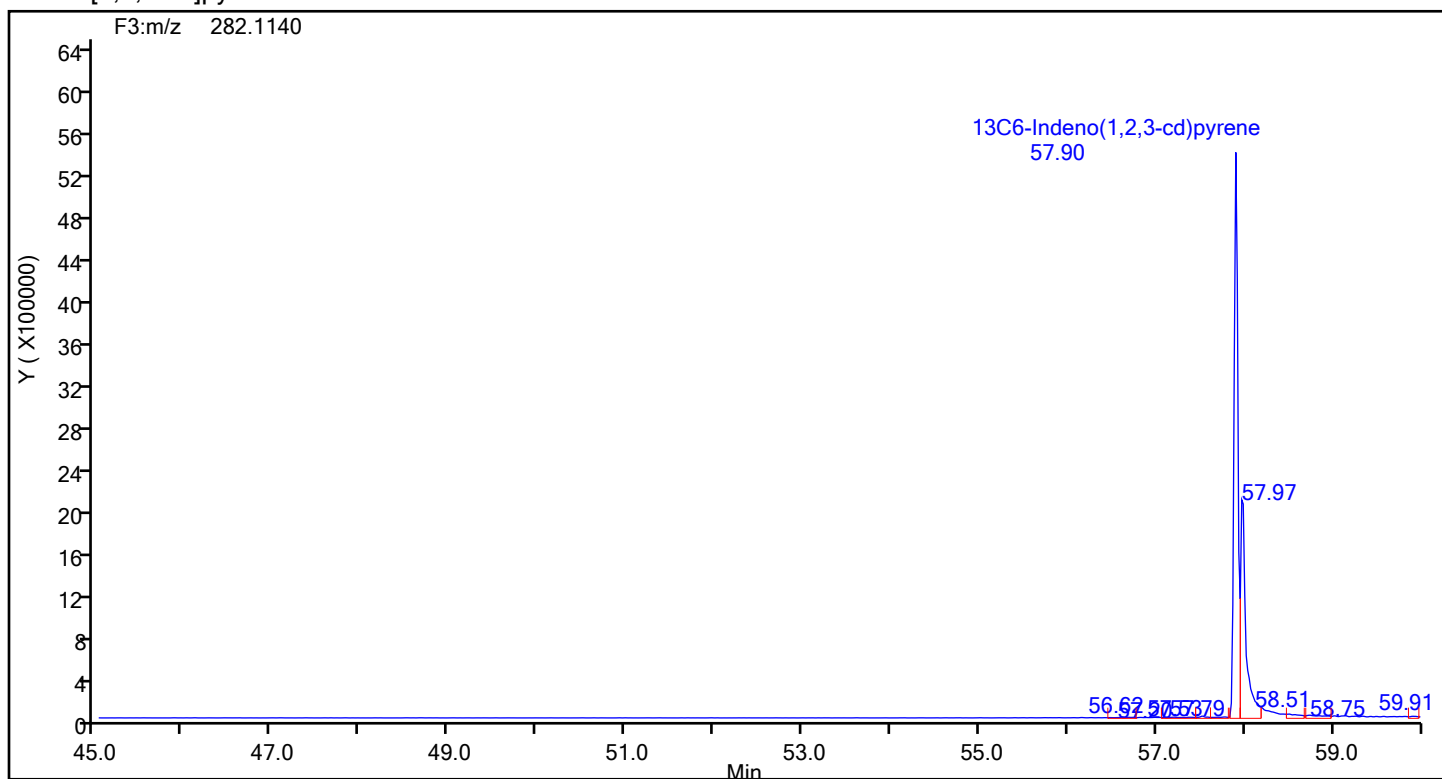
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

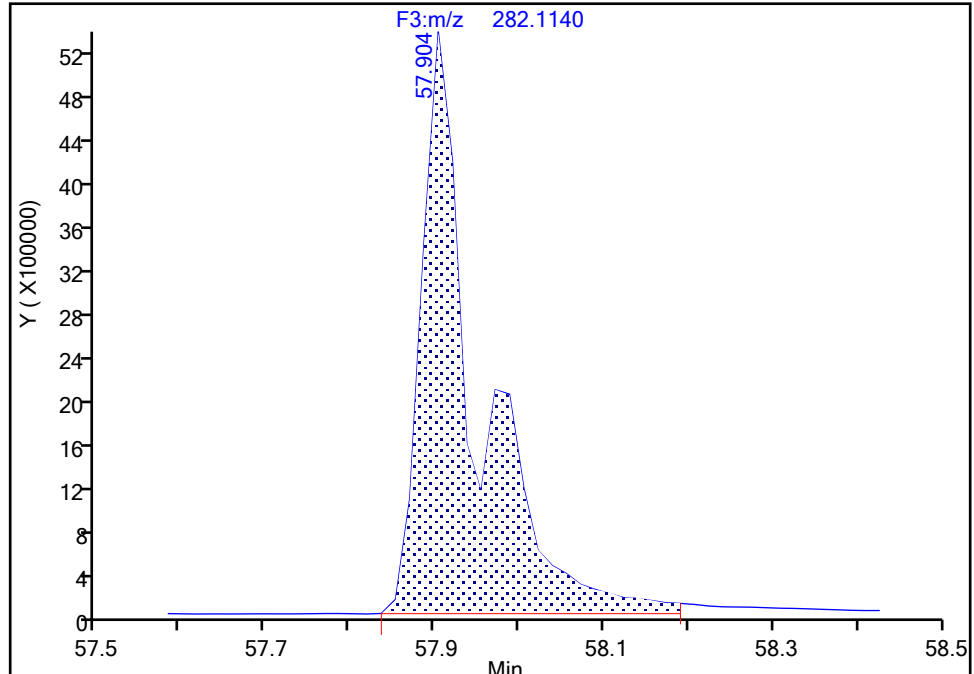
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

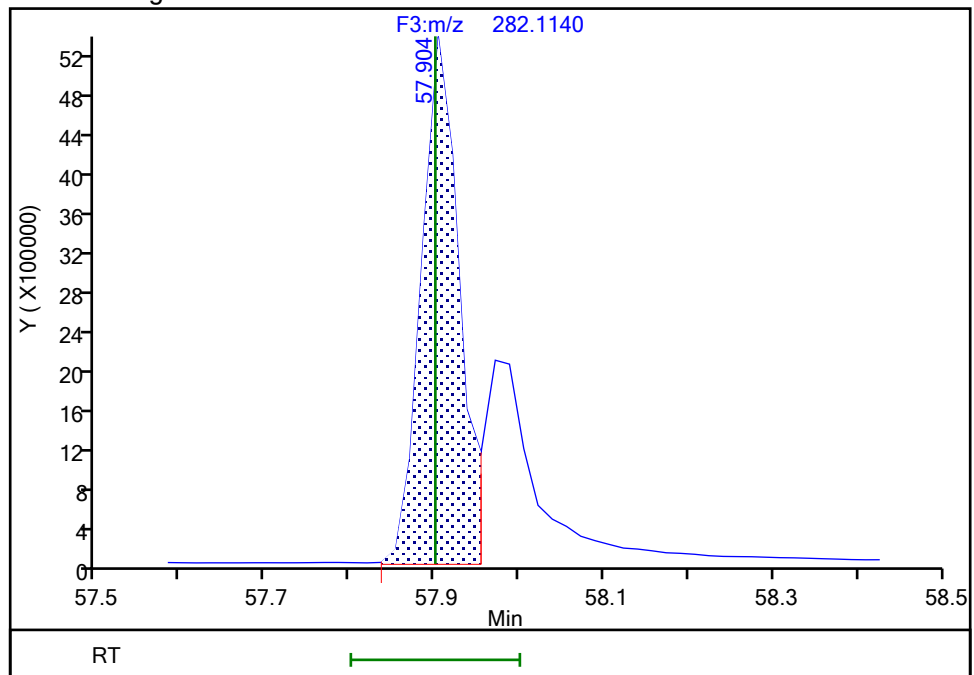
RT: 57.90
Area: 25056104
Amount: 13.953560
Amount Units: pg/ul

Processing Integration Results



RT: 57.90
Area: 17037129
Amount: 9.487852
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:28:02 -04:00:00 (UTC)

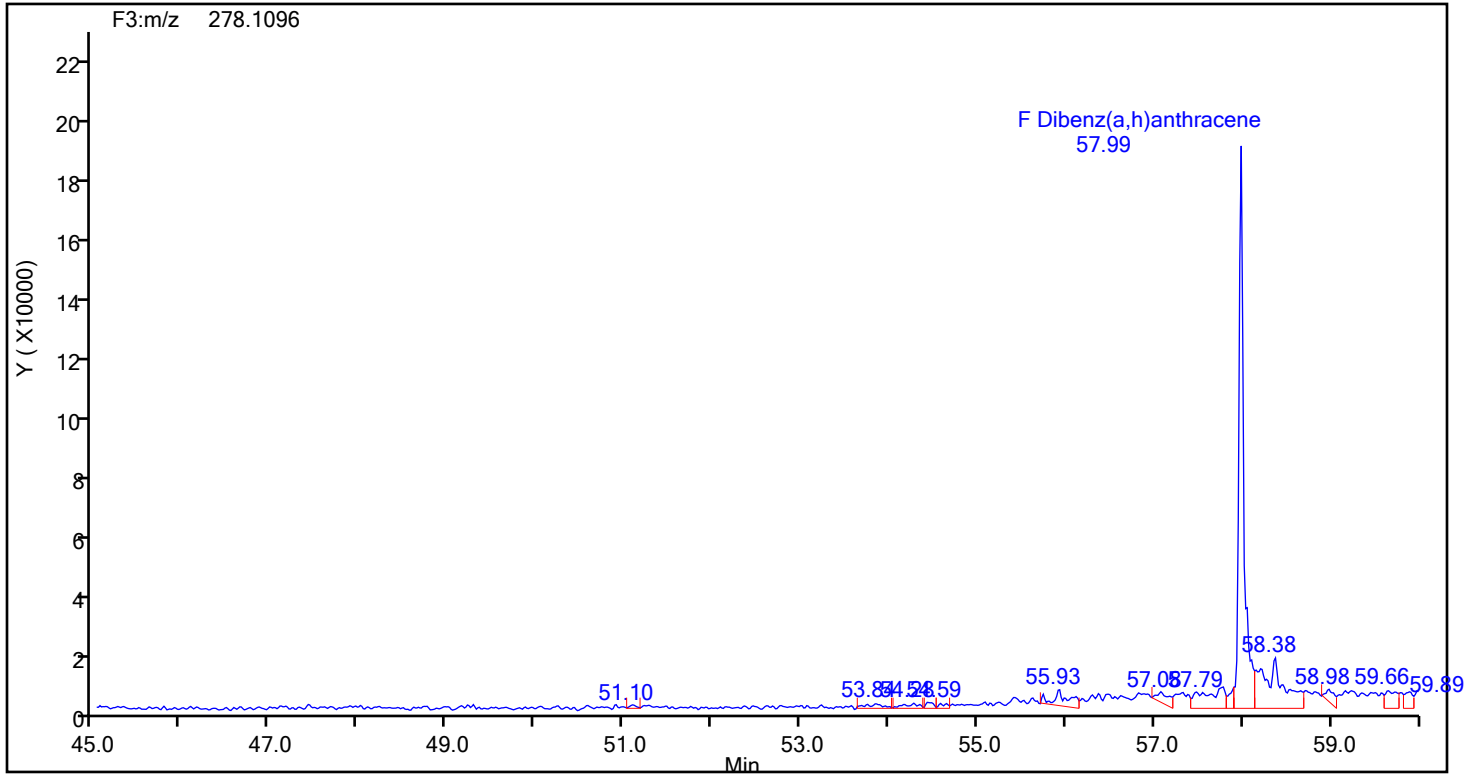
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

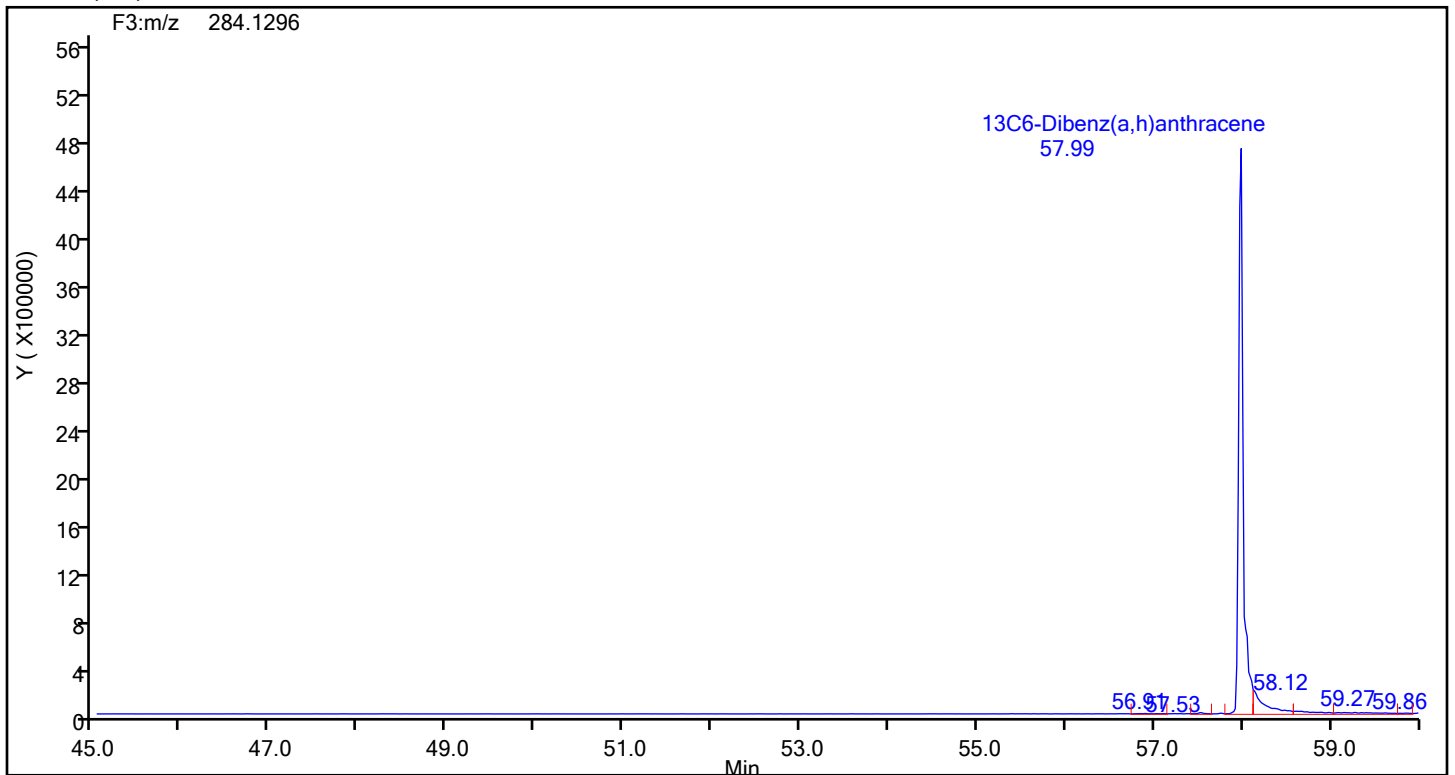
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88999 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

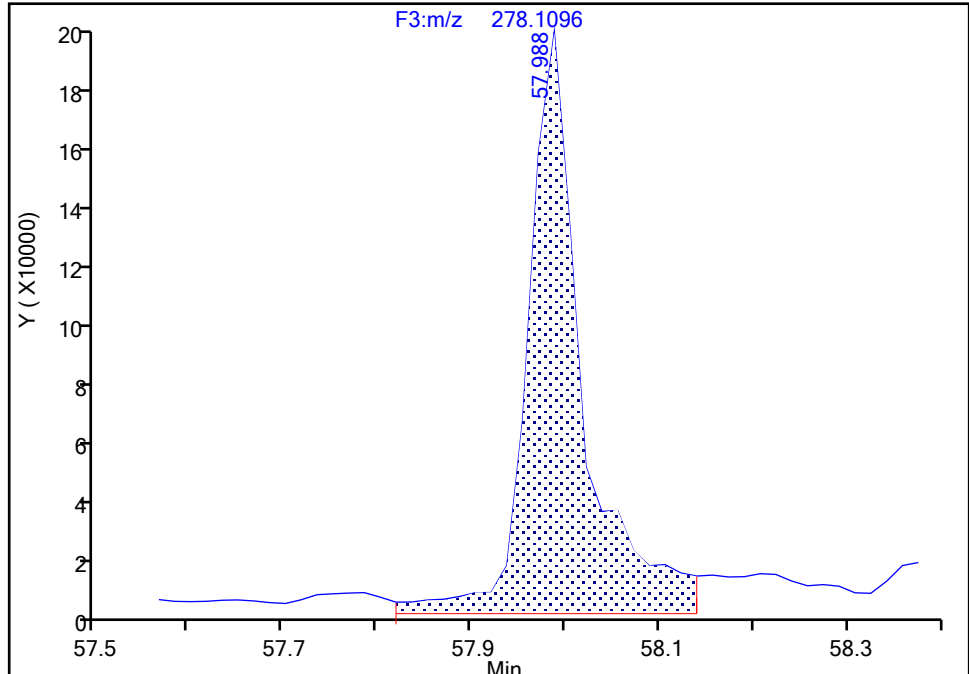
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

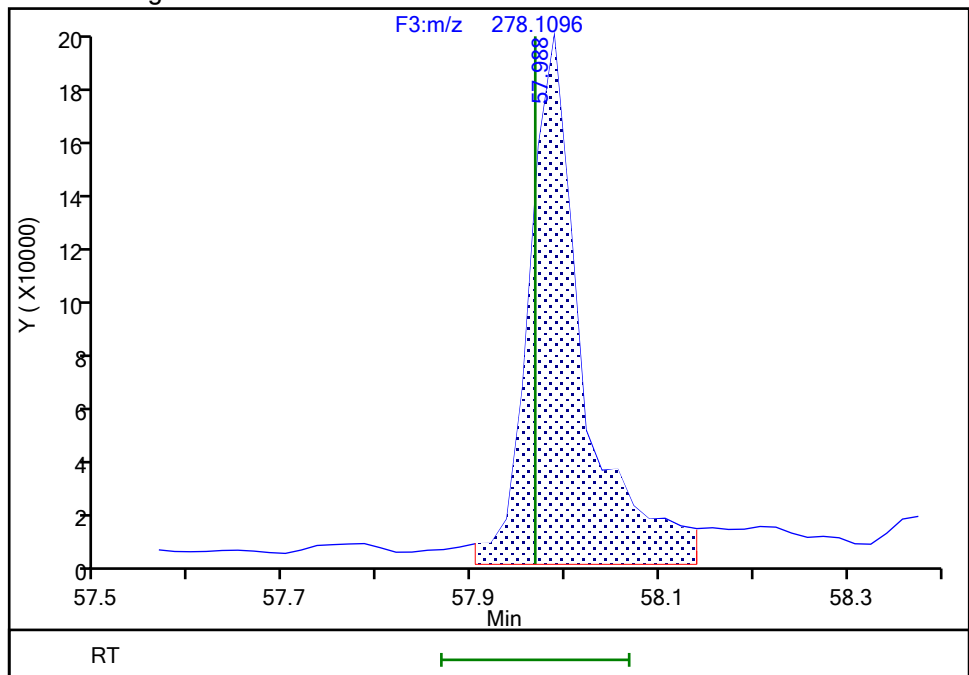
RT: 57.99
Area: 767969
Amount: 0.392207
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 752737
Amount: 0.384428
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:28:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

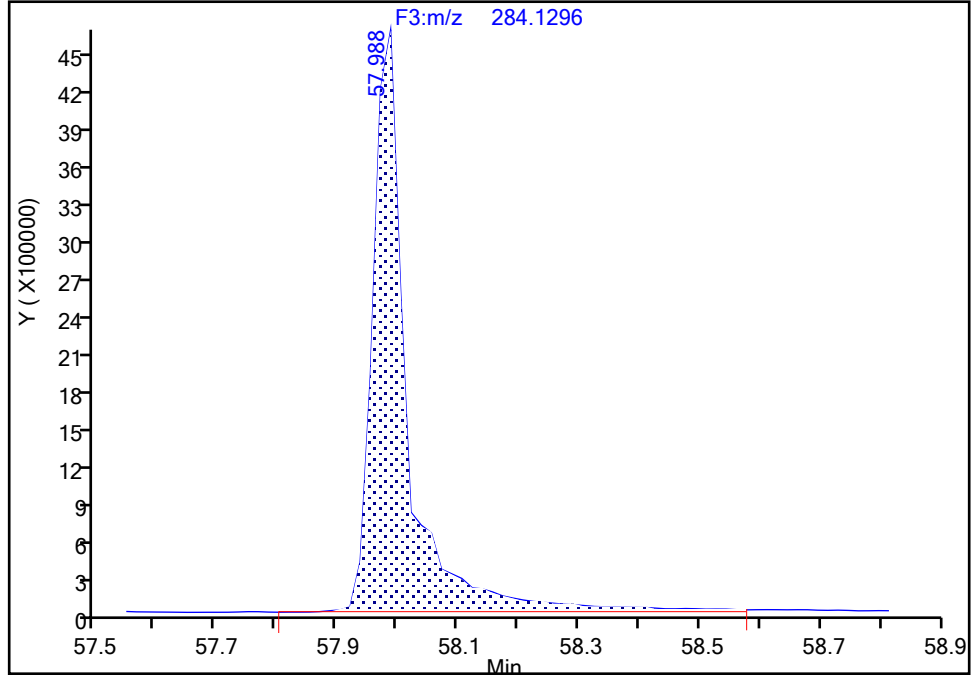
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Injection Date: 20-Jul-2024 07:18:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-6-C Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

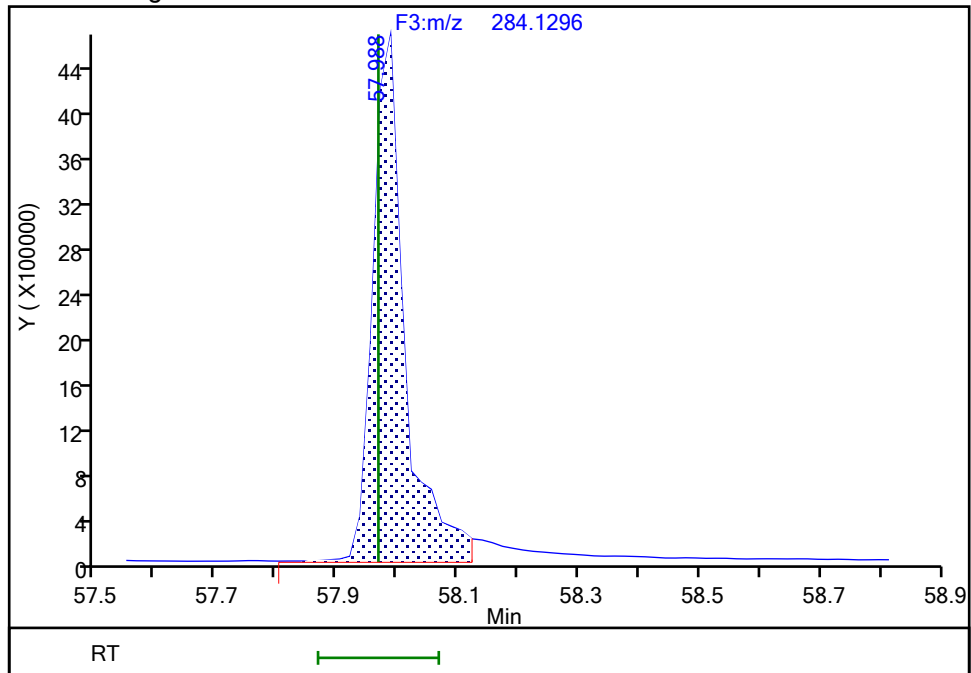
RT: 57.99
Area: 18973312
Amount: 10.231408
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 17307028
Amount: 9.332860
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:27:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d

Injection Date: 20-Jul-2024 07:18:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED

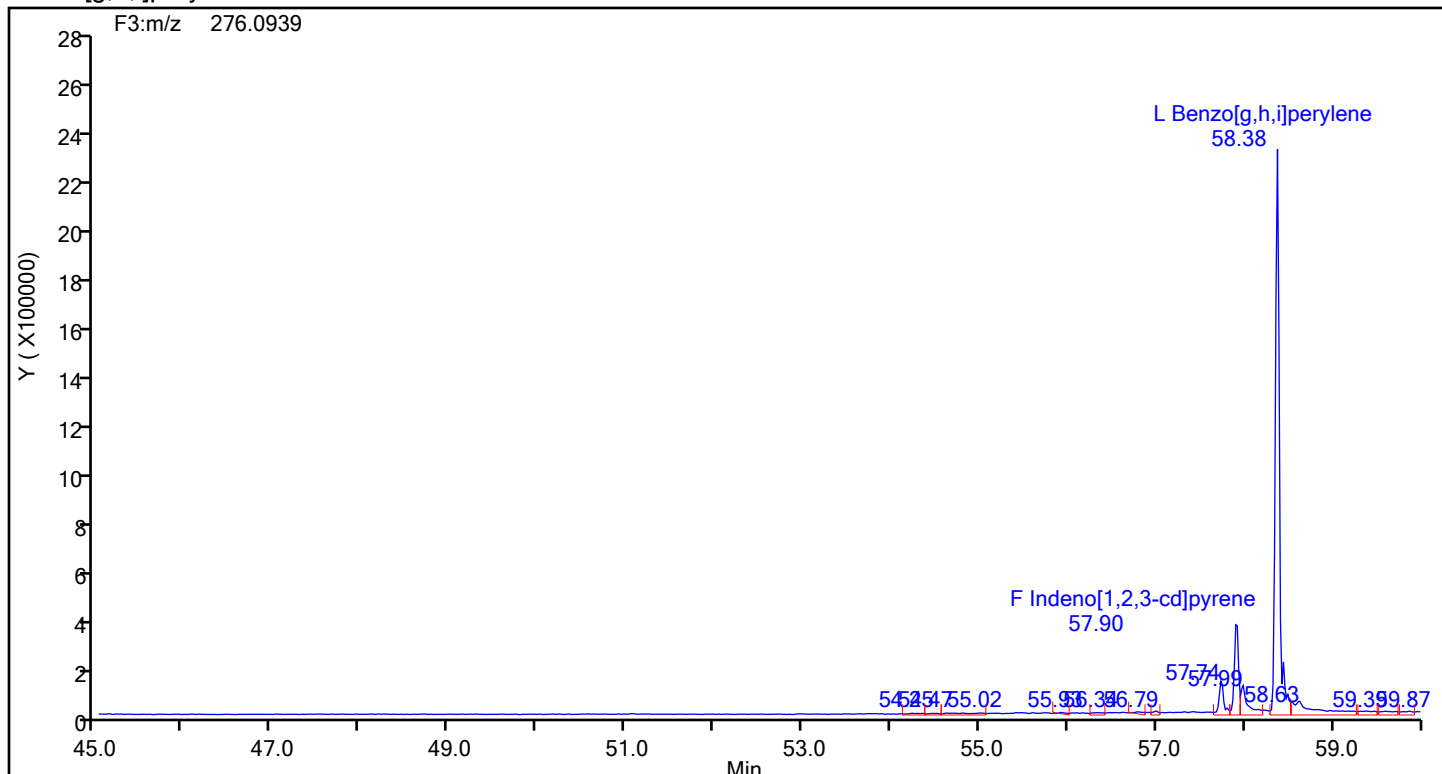
Worklist#: 88999

Sample Line#: 8

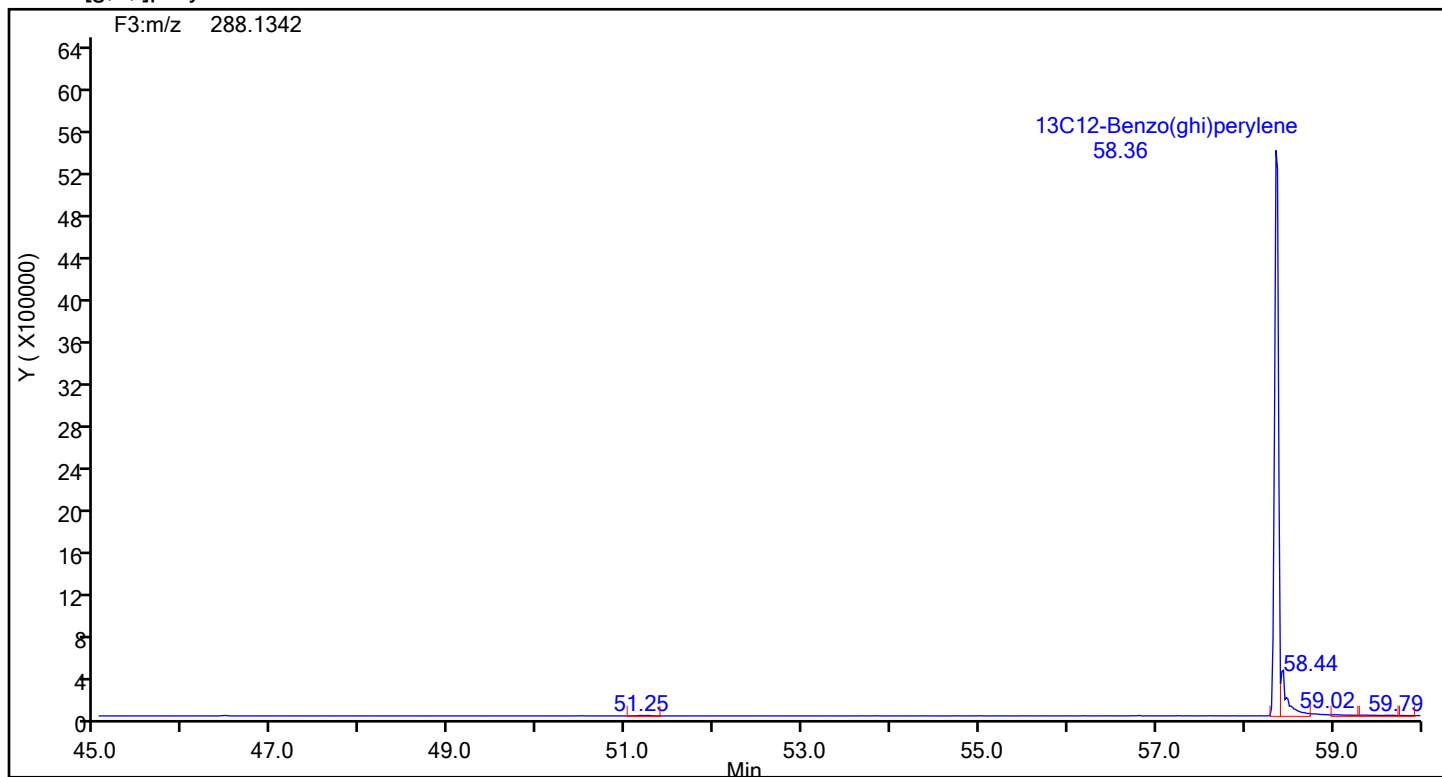
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-6-c.d
Lims ID: 140-37232-A-6-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 07:18:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 11:29:18 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:29:18

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.6567	65.67
13C6-Benzo(c)fluorene	100.0	9.64	96.38
13C12-Benzo(j)fluoranthene	100.0	8.03	80.32

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 7 - COMBINED</u>	Lab Sample ID: <u>140-37232-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-7-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 13:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 08:22</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	667	J B * +	750	750	0.765
91-57-6	2-Methylnaphthalene	191	J B	750	750	0.619
208-96-8	Acenaphthylene	13.7	J B	30.0	30.0	0.498
83-32-9	Acenaphthene	42.9	J B	300	300	0.543
86-73-7	Fluorene	103	J B	300	300	0.646
85-01-8	Phenanthrene	411	B	60.0	60.0	0.809
120-12-7	Anthracene	42.9	J B	300	300	0.816
206-44-0	Fluoranthene	65.4	B	60.0	60.0	0.257
129-00-0	Pyrene	72.8	B	60.0	60.0	0.265
56-55-3	Benzo[a]anthracene	4.71	J B	60.0	60.0	0.198
218-01-9	Chrysene	13.6	J B	60.0	60.0	0.207
205-99-2	Benzo[b]fluoranthene	5.79	J B	300	300	0.125
207-08-9	Benzo[k]fluoranthene	3.25	J B	60.0	60.0	0.115
192-97-2	Benzo[e]pyrene	12.9	J B	60.0	60.0	0.0984
50-32-8	Benzo[a]pyrene	3.81	J B	30.0	30.0	0.0969
198-55-0	Perylene	2.14	J B	30.0	30.0	0.0842
193-39-5	Indeno[1,2,3-cd]pyrene	6.47	J B	30.0	30.0	0.0799
53-70-3	Dibenz(a,h)anthracene	5.88	J B	60.0	60.0	0.0568
191-24-2	Benzo[g,h,i]perylene	20.3	J B	60.0	60.0	0.0661

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 7 - COMBINED</u>	Lab Sample ID: <u>140-37232-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-7-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 13:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 08:22</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	59		20-130
STL03357	13C6-2-Methylnaphthalene	61		20-130
189811-56-1	13C6-Acenaphthylene	86		20-130
189811-57-2	13C6-Acenaphthene	79		20-130
STL00616	13C6-Fluorene	87		20-130
1397194-60-3	13C6-Fluoranthrene	84		20-130
1397214-90-2	13C3-Pyrene	80		20-130
917378-11-1	13C6-Benzo (a) anthracene	71		20-130
1397177-72-8	13C6-Chrysene	72		20-130
STL03358	13C6-Benzo (b) fluoranthene	80		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	89		20-130
STL03382	13C4-Benzo (e) pyrene	80		20-130
STL03359	13C4-Benzo (a) pyrene	92		20-130
1520-96-3	Perylene-d12	91		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	94		20-130
STL03360	13C6-Dibenz (a,h) anthracene	109		20-130
350820-11-0	13C12-Benzo (ghi) perylene	95		20-130
189811-60-7	13C6-Anthracene	81		20-130
1189955-53-0	13C6-Phenanthrene	71		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Lims ID: 140-37232-A-7-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 08:22:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:31:38 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:31:38

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	2892497		3.3746	5.921	5.921	0.002998	0.002998	59.21	
Naphthalene	11:28	16573664		1.2893	44.4	44.4	0.0510	0.0510		M
D 13C6-2-Methylnaphthalene	13:48	1421596		1.6031	6.126	6.126	0.001270	0.001270	61.26	
2-Methylnaphthalene	13:48	2315609		1.2786	12.7	12.7	0.0413	0.0413		
D 13C6-Acenaphthylene	16:38	2058526		1.6520	8.607	8.607	0.004981	0.004981	86.07	
Acenaphthylene	16:38	242713		2.3661	0.9135	0.9135	0.0332	0.0332		M
* Acenaphthene-d10	17:12	723859		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:19	1122881		0.9792	7.921	7.921	0.004545	0.004545	79.21	
Acenaphthene	17:20	407815		1.2697	2.860	2.860	0.0362	0.0362		
D 13C6-Fluorene	19:36	1120637		0.8898	8.699	8.699	0.007242	0.007242	86.99	
Fluorene	19:36	967259		1.2532	6.888	6.888	0.0431	0.0431		M
D 13C6-Phenanthrene	24:57	1690836		0.5724	7.077	7.077	0.001878	0.001878	70.77	
Phenanthrene	24:57	5110546		1.1044	27.4	27.4	0.0539	0.0539		M
\$ Anthracin-d10	25:09	99329		0.4257	0.5590	0.5590	0.001421	0.001421	55.90	
D 13C6-Anthracene	25:16	1531312		0.4523	8.111	8.111	0.002377	0.002377	81.11	
Anthracene	25:17	595061		1.3586	2.860	2.860	0.0544	0.0544		M
D 13C6-Fluoranthrene	33:40	4220046		1.1994	8.430	8.430	0.0134	0.0134	84.30	
Fluoranthene	33:41	2118801		1.1513	4.361	4.361	0.0171	0.0171		
* Pyrene-d10	35:13	2086850		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:21	4520899		1.3512	8.016	8.016	0.008306	0.008306	80.16	
Pyrene	35:21	2338783		1.0652	4.857	4.857	0.0177	0.0177		
\$ 13C6-Benzo(c)fluorene	39:04	2113036		0.5136	9.858	9.858	0.005365	0.005365	98.58	M
D 13C6-Benzo(a)anthracene	45:53	3794293		1.5189	7.075	7.075	0.004173	0.004173	70.75	
Benzo[a]anthracene	45:53	115965		0.9739	0.3138	0.3138	0.0132	0.0132		
D 13C6-Chrysene	46:09	4134469		1.6287	7.190	7.190	0.003892	0.003892	71.90	M
Chrysene	46:09	367235		0.9815	0.9050	0.9050	0.0138	0.0138		
D 13C6-Benzo(b)fluoranthene	54:31	4130955		1.4621	8.002	8.002	0.001812	0.001812	80.02	
Benzo[b]fluoranthene	54:31	179432		1.1249	0.3861	0.3861	0.008324	0.008324		
\$ 13C12-Benzo(j)fluoranthene	54:33	4191025		1.3558	8.755	8.755	0.008021	0.008021	87.55	M
D 13C6-Benzo(k)fluoranthene	54:38	5509582		1.7507	8.913	8.913	0.001513	0.001513	89.13	M
Benzo[k]fluoranthene	54:39	134494		1.1271	0.2166	0.2166	0.007680	0.007680		M
* Benzo(e)pyrene-d12	55:24	1765370		5.7E+04	5.000	5.000				M
Benzo[e]pyrene	55:29	395819		1.0013	0.8596	0.8596	0.006561	0.006561		M
D 13C4-Benzo(e)pyrene	55:29	4599055		1.6368	7.958	7.958	0.003180	0.003180	79.58	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:38	5013841		1.5508	9.157	9.157	0.003356	0.003356	91.57	M
Benzo[a]pyrene	55:38	141567		1.1130	0.2537	0.2537	0.006463	0.006463		M
D Perylene-d12	55:48	3845679		1.1917	9.140	9.140	0.008361	0.008361	91.40	M
Perylene	55:52	78553		1.4307	0.1428	0.1428	0.005610	0.005610		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	3392961		1.0218	9.404	9.404	0.004612	0.004612	94.04	
Indeno[1,2,3-cd]pyrene	57:56	164757		1.1249	0.4317	0.4317	0.005325	0.005325		M
D 13C6-Dibenz(a,h)anthracene	58:00	4072861		1.0553	10.9	10.9	0.002510	0.002510	109	M
Dibenz(a,h)anthracene	58:01	180571		1.1314	0.3919	0.3919	0.003786	0.003786		
D 13C12-Benzo(ghi)perylene	58:23	4271915		1.2749	9.490	9.490	0.001035	0.001035	94.90	
Benzo[g,h,i]perylene	58:24	742251		1.2838	1.353	1.353	0.004404	0.004404		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
 Lims ID: 140-37232-A-7-C
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
 Sample Type: Client
 Inject. Date: 20-Jul-2024 08:22:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info:
 Misc. Info.: 140-0033591-009
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
 Limit Group: HR - HRPAL ICAL
 Last Update: 20-Jul-2024 11:31:38 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:31:38

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:28	11:39	3	0.666	2892497	967315	193	482	5012		
Naphthalene											
128.0626	11:28	11:28	3	1.000	16573664	5390822	2544	6360	2119		M
13C6-2-Methylnaphthalene											
148.0984	13:48	13:46	1	0.802	1421596	621569	39	97	15938		M
2-Methylnaphthalene											
142.0783	13:48	13:47	2	1.001	2315609	965332	1312	3280	736		
13C6-Acenaphthylene											
158.0828	16:38	16:38	1	0.967	2058526	700022	157	392	4459		
Acenaphthylene											
152.0626	16:38	16:38	1	1.000	242713	85455	1144	2860	75		M
Acenaphthene-d10											
164.1404	17:12	17:12	1		723859	238187	21	52	11342		
13C6-Acenaphthene											
160.0984	17:19	17:19	1	1.007	1122881	363817	85	212	4280		
Acenaphthene											
154.0783	17:20	17:20	1	1.001	407815	129105	669	1672	193		
13C6-Fluorene											
172.0984	19:36	19:35	1	1.139	1120637	317644	123	307	2582		
Fluorene											
166.0783	19:36	19:36	1	1.001	967259	271690	686	1715	396		M
13C6-Phenanthrene											
184.0984	24:57	24:55	0	0.708	1690836	379298	32	80	11853		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	5110546	1086786	904	2260	1202		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:08	0	0.714	99329	22317	18	45	1240		
13C6-Anthracene											
184.0984	25:16	25:15	0	0.718	1531312	305943	32	80	9561		
Anthracene											
178.0783	25:17	25:17	1	1.000	595061	118620	904	2260	131		M
13C6-Fluoranthrene											
208.0984	33:40	33:38	0	0.956	4220046	726160	479	1197	1516		
Fluoranthene											
202.0783	33:41	33:37	1	1.000	2118801	371861	573	1432	649		
Pyrene-d10											
212.1404	35:13	35:12	1		2086850	371990	105	262	3543		
13C3-Pyrene											
205.0883	35:21	35:19	1	1.004	4520899	761307	334	835	2279		
Pyrene											
202.0783	35:21	35:19	0	1.000	2338783	393625	573	1432	687		
13C6-Benzo(c)fluorene											
222.1134	39:04	39:04	1	0.705	2113036	357823	82	205	4364		M
13C6-Benzo(a)anthracene											
234.1140	45:53	45:49	2	1.303	3794293	599149	273	682	2195		
Benzo[a]anthracene											
228.0939	45:53	45:52	1	1.000	115965	18651	309	772	60		
13C6-Chrysene											
234.1140	46:09	46:09	2	1.311	4134469	569374	273	682	2086		M
Chrysene											
228.0939	46:09	46:07	1	1.000	367235	44008	309	772	142		M
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:28	2	0.984	4130955	1016633	114	285	8918		
Benzo[b]fluoranthene											
252.0939	54:31	54:29	2	1.000	179432	35032	381	952	92		
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:33	2	0.985	4191025	941772	468	1170	2012		M
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	2	0.986	5509582	1099822	114	285	9648		M
Benzo[k]fluoranthene											
252.0939	54:39	54:39	2	1.000	134494	23916	381	952	63		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:23	1		1765370	537950	429	1072	1254		M
Benzo[e]pyrene											
252.0939	55:29	55:29	2	1.000	395819	107619	381	952	282		M
13C4-Benzo(e)pyrene											
256.1073	55:29	55:26	2	1.002	4599055	1449050	224	560	6469		
13C4-Benzo(a)pyrene											
256.1073	55:38	55:38	2	1.004	5013841	1323487	224	560	5908		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:38	55:38	2	1.000	141567	31467	381	952	83		M
Perylene-d12											M
264.1692	55:48	55:48	2	1.007	3845679	1186047	429	1072	2765		M
Perylene											M
252.0939	55:52	55:52	2	1.001	78553	10418	381	952	27		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:55	2	1.046	3392961	1088470	203	507	5362		
Indeno[1,2,3-cd]pyrene											M
276.0939	57:56	57:56	2	1.000	164757	38327	261	652	147		M
13C6-Dibenz(a,h)anthracene											M
284.1296	58:00	58:00	2	1.047	4072861	922130	114	285	8089		M
Dibenz(a,h)anthracene											
278.1096	58:01	58:00	3	1.000	180571	37293	158	395	236		
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	2	1.054	4271915	1153364	57	142	20234		
Benzo[g,h,i]perylene											M
276.0939	58:24	58:24	2	1.000	742251	173236	261	652	664		M

QC Flag Legend

Processing Flags

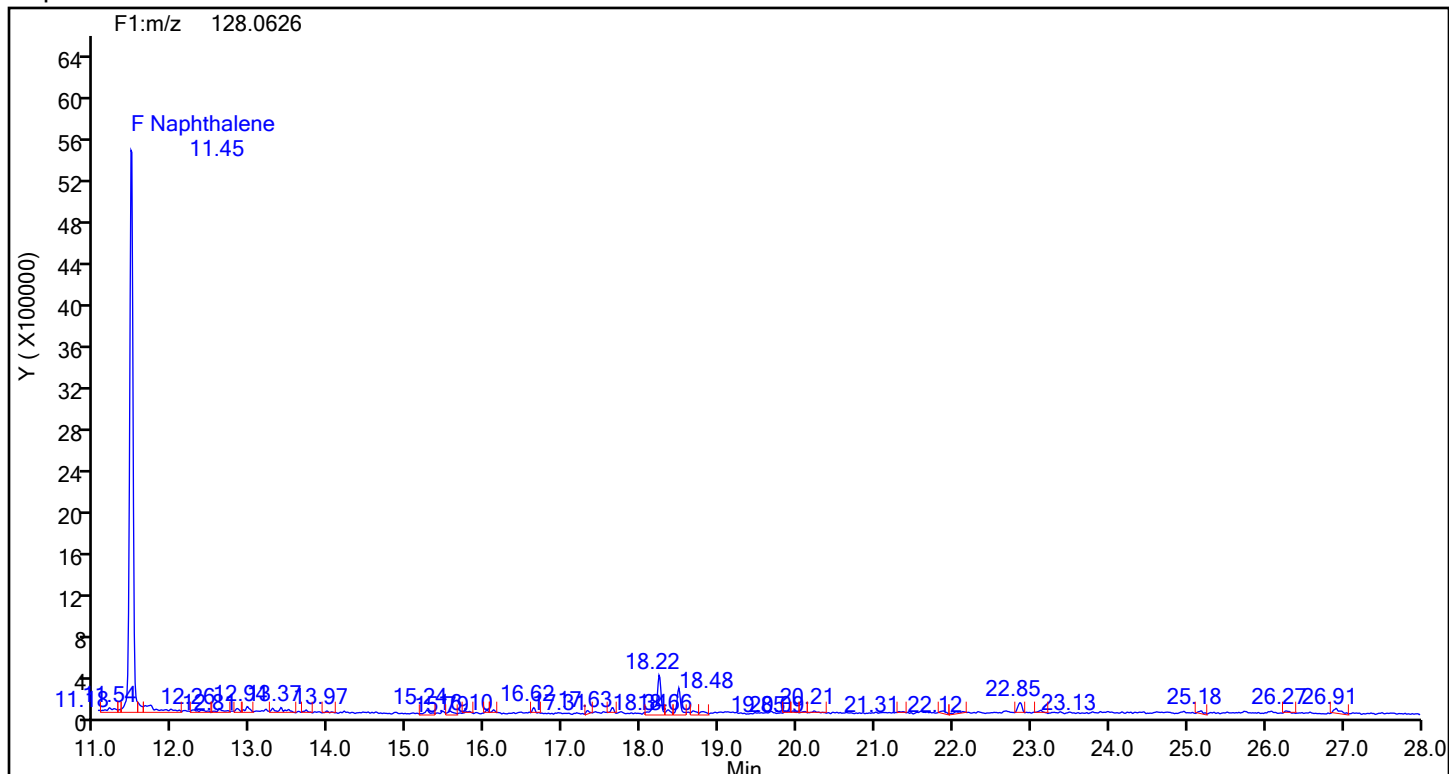
Review Flags

M - Manually Integrated

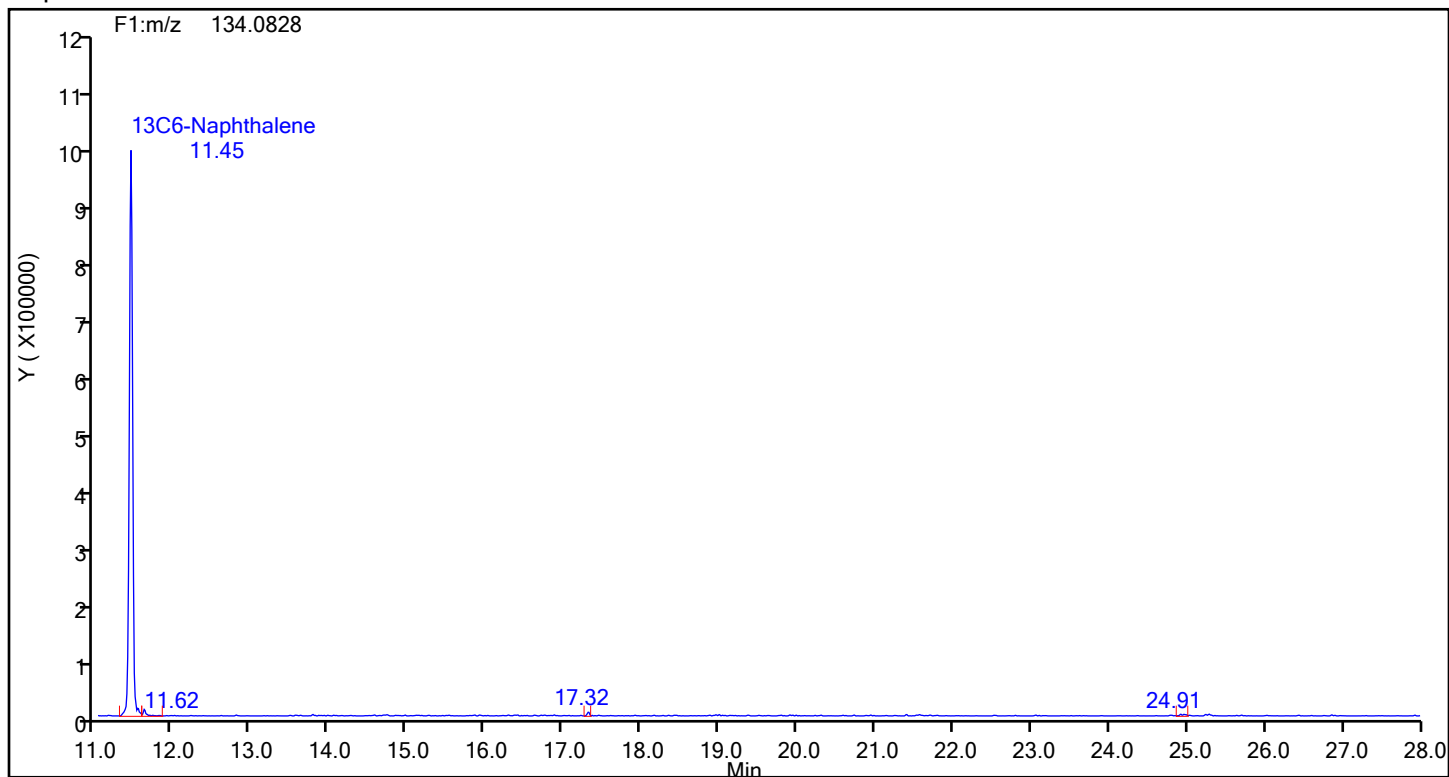
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

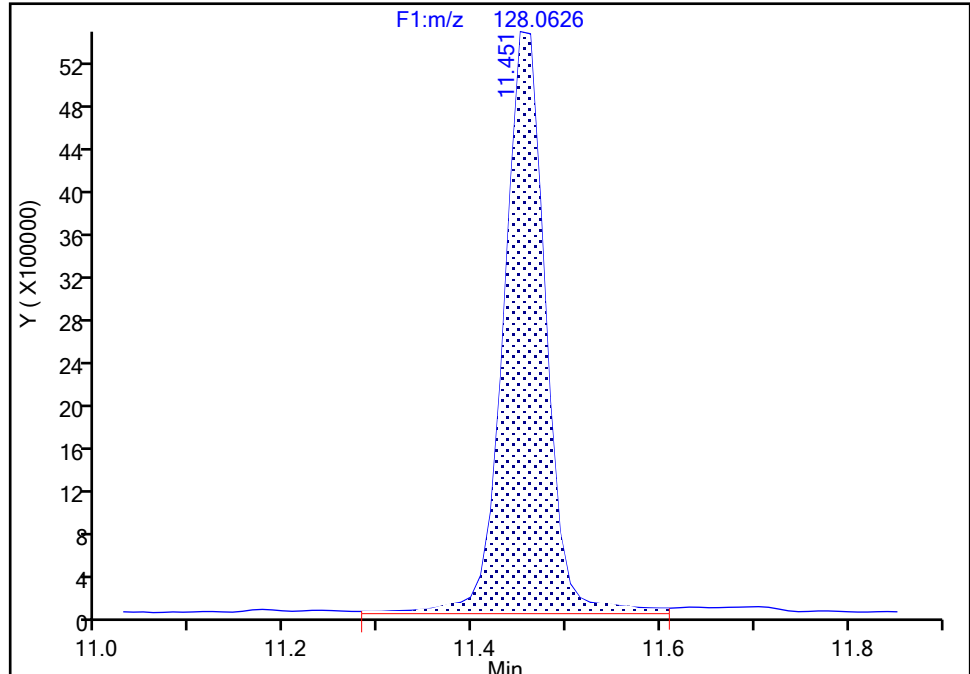
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

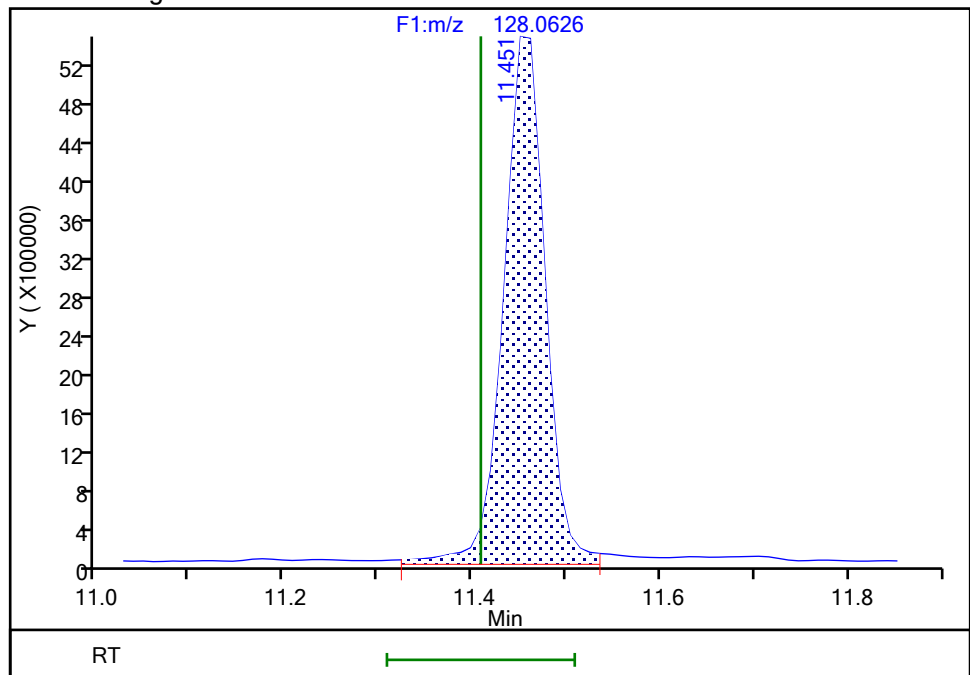
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Amount: 45.335981
Amount Units: pg/ul

Processing Integration Results



RT: 11.45
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Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:30:26 -04:00:00 (UTC)

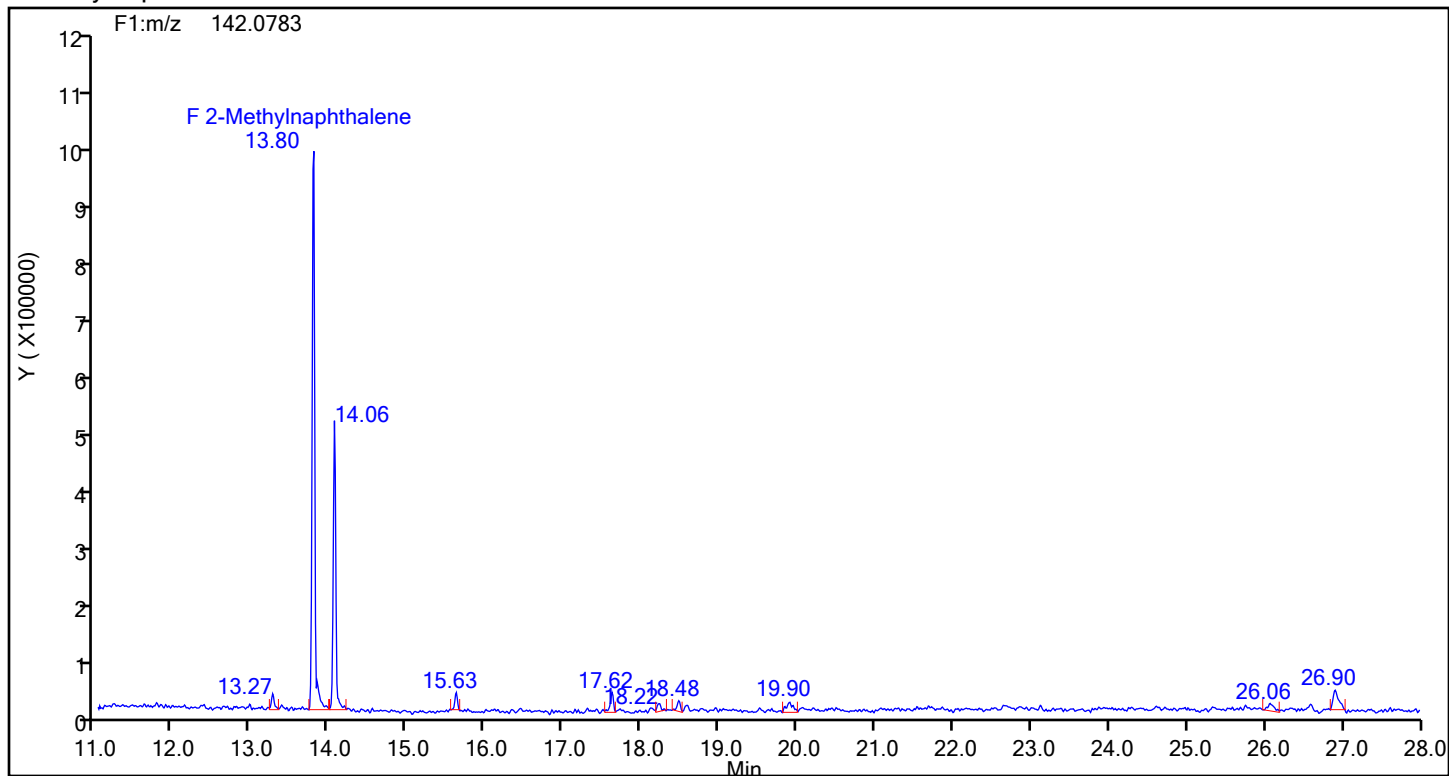
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

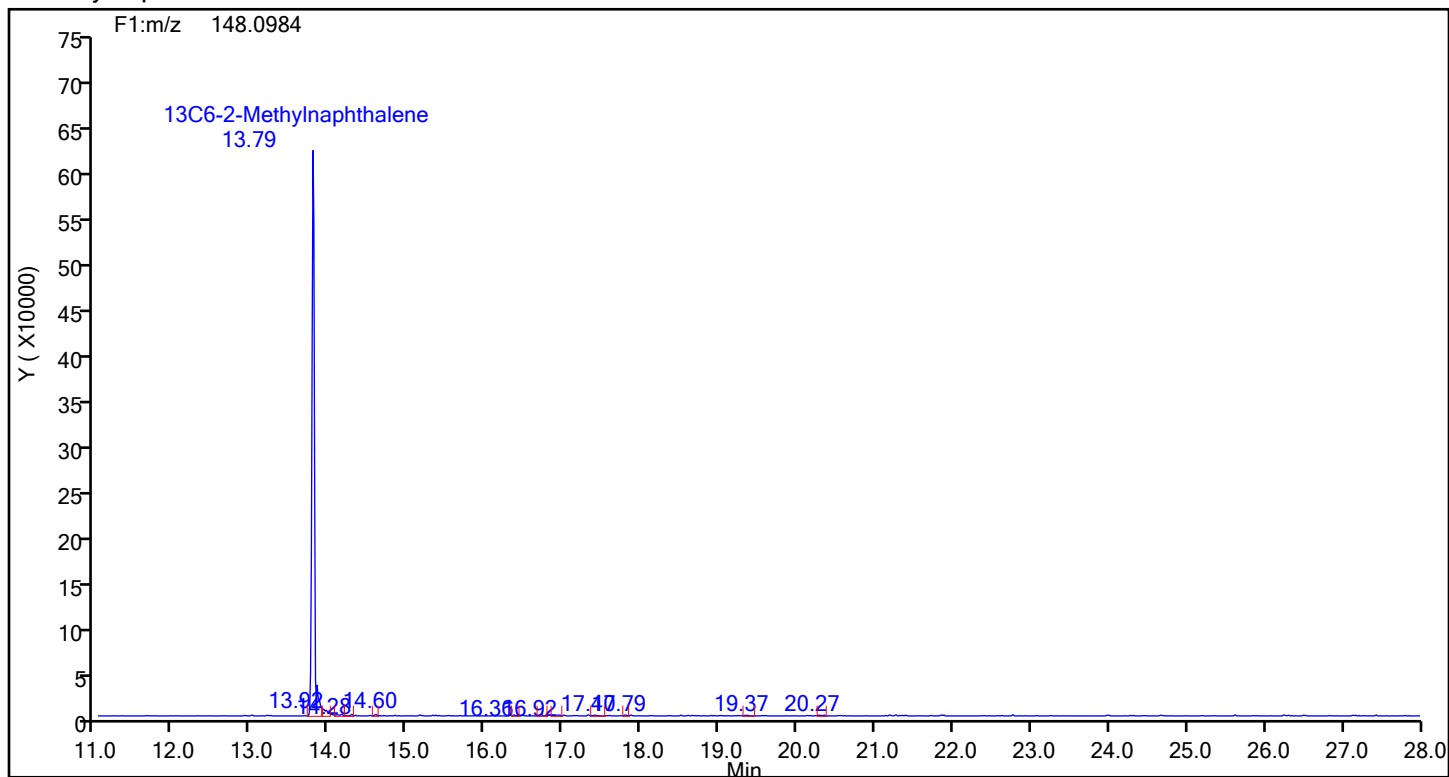
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



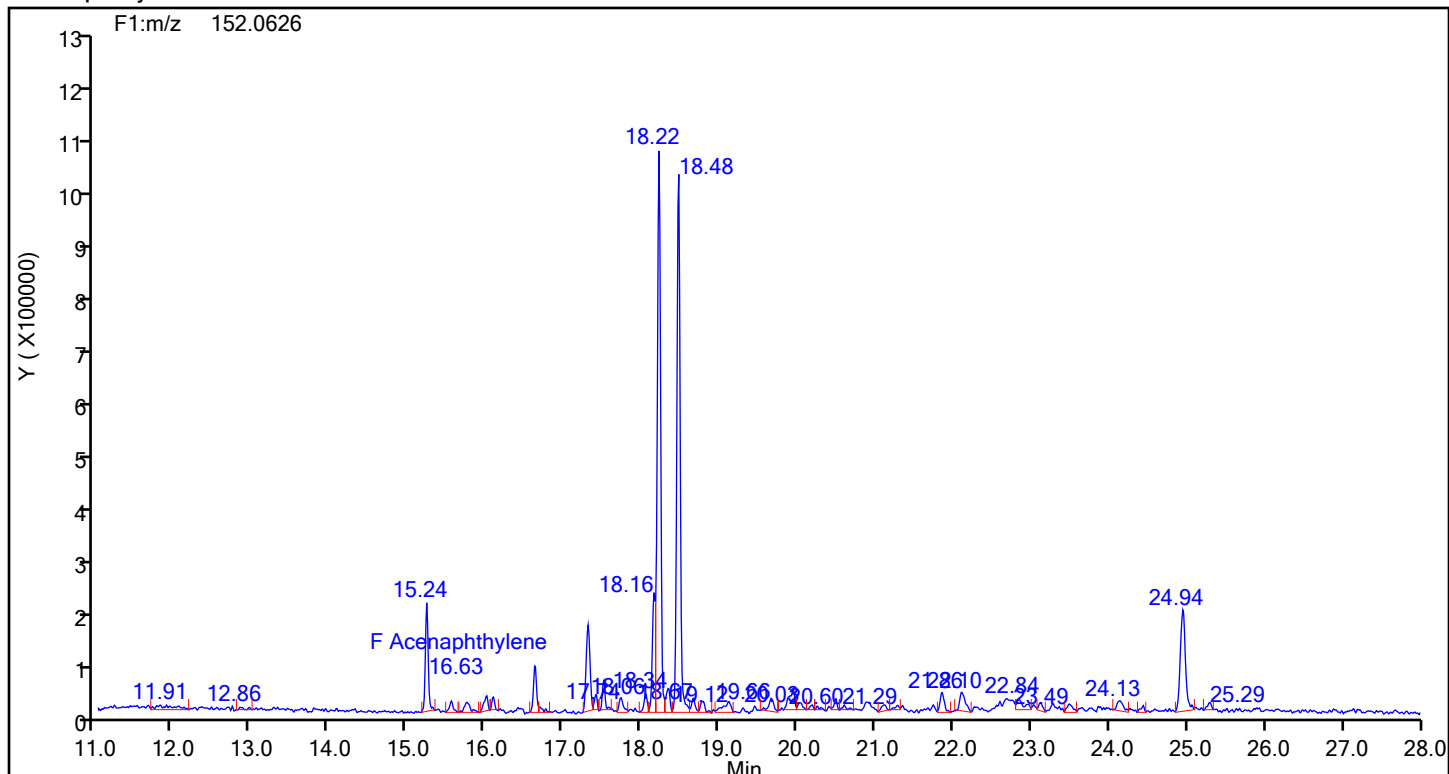
2-Methylnaphthalene Standards



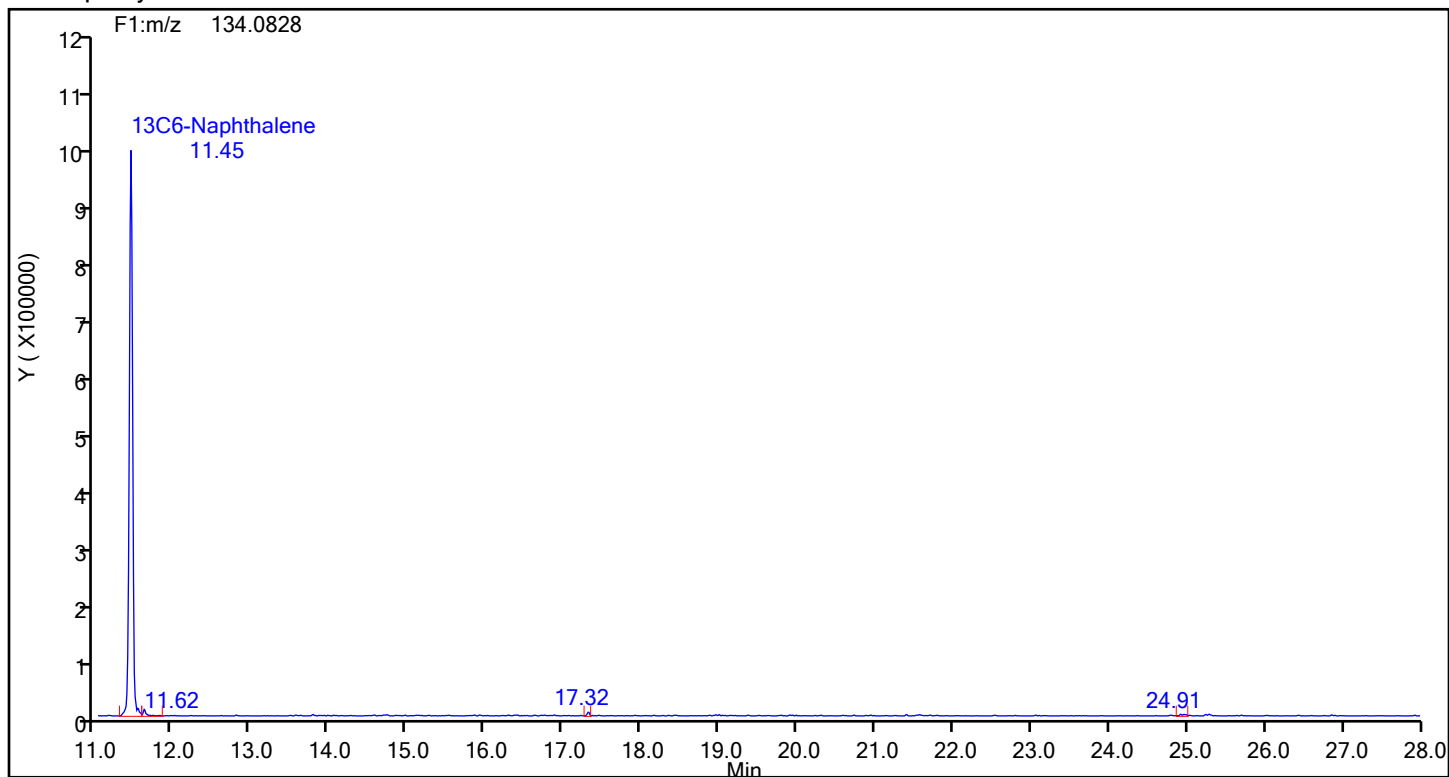
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

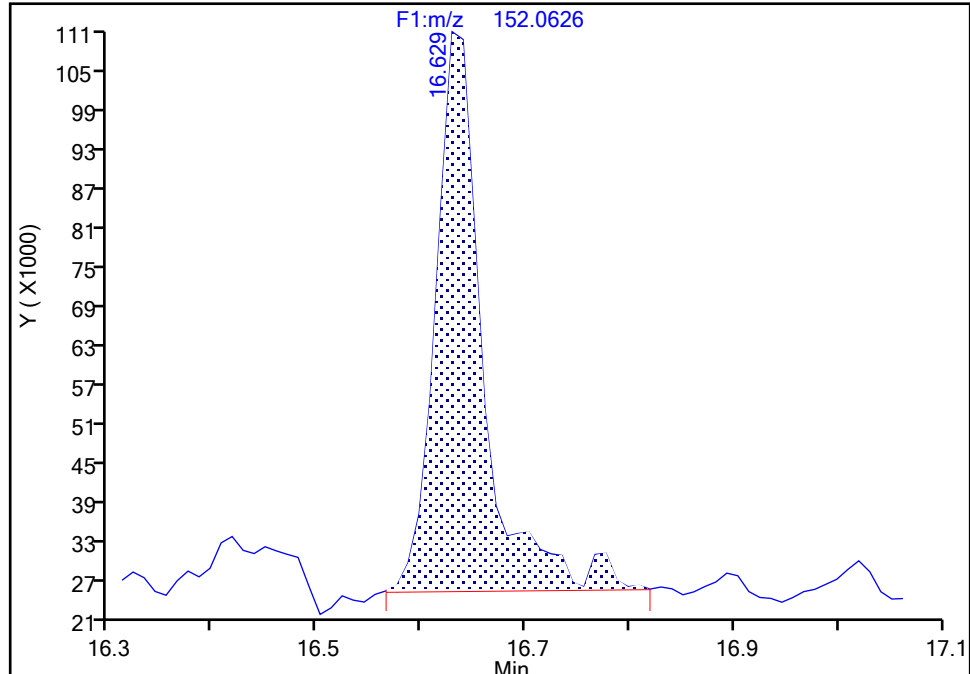
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

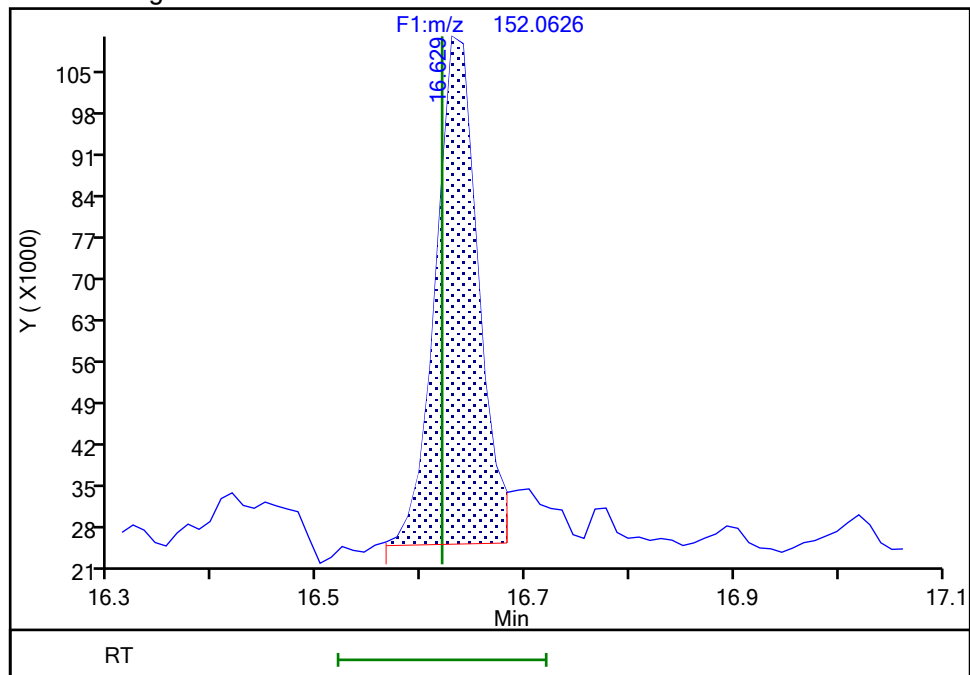
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Amount: 1.033258
Amount Units: pg/ul

Processing Integration Results



RT: 16.63
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Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:05 -04:00:00 (UTC)

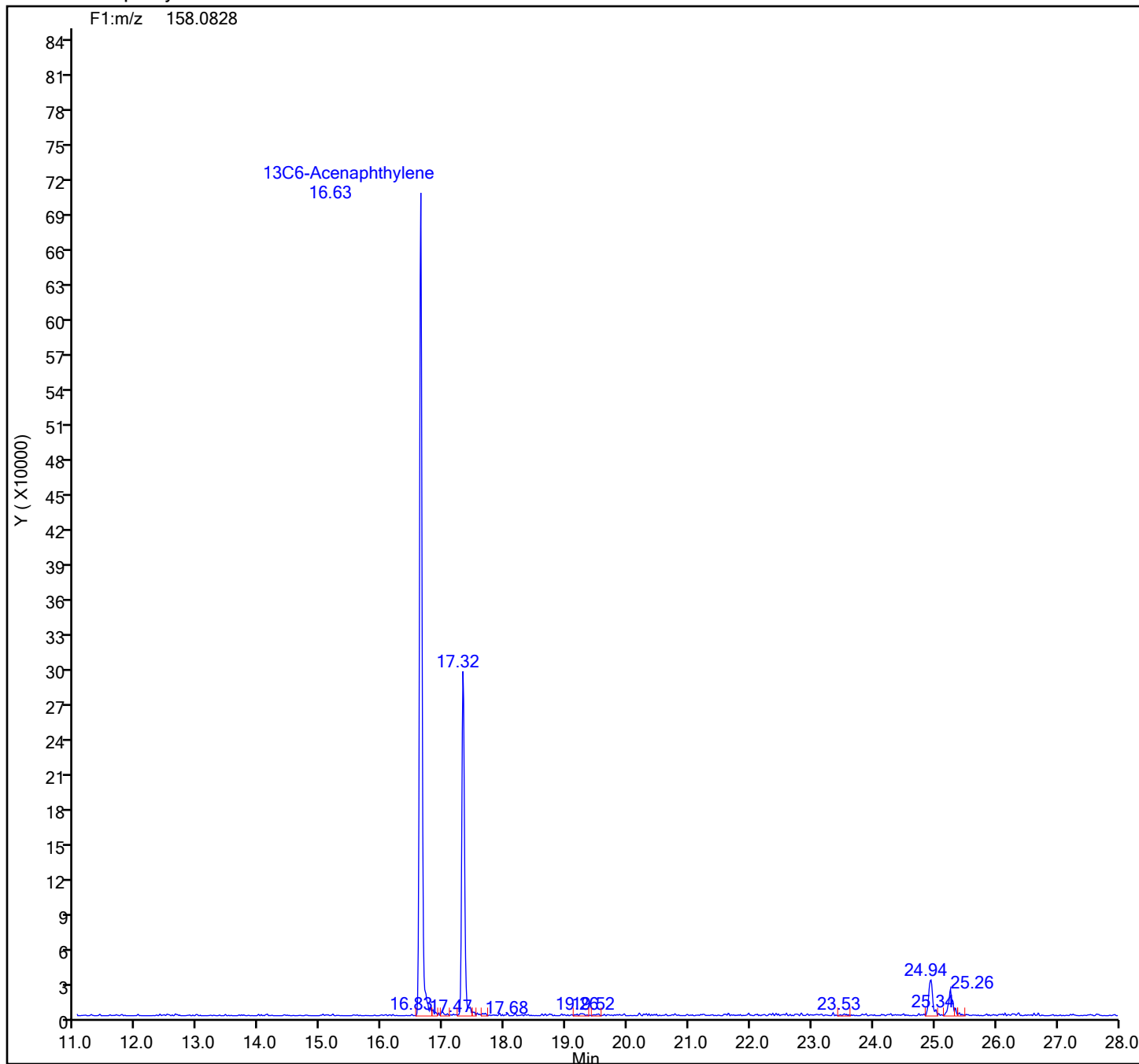
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

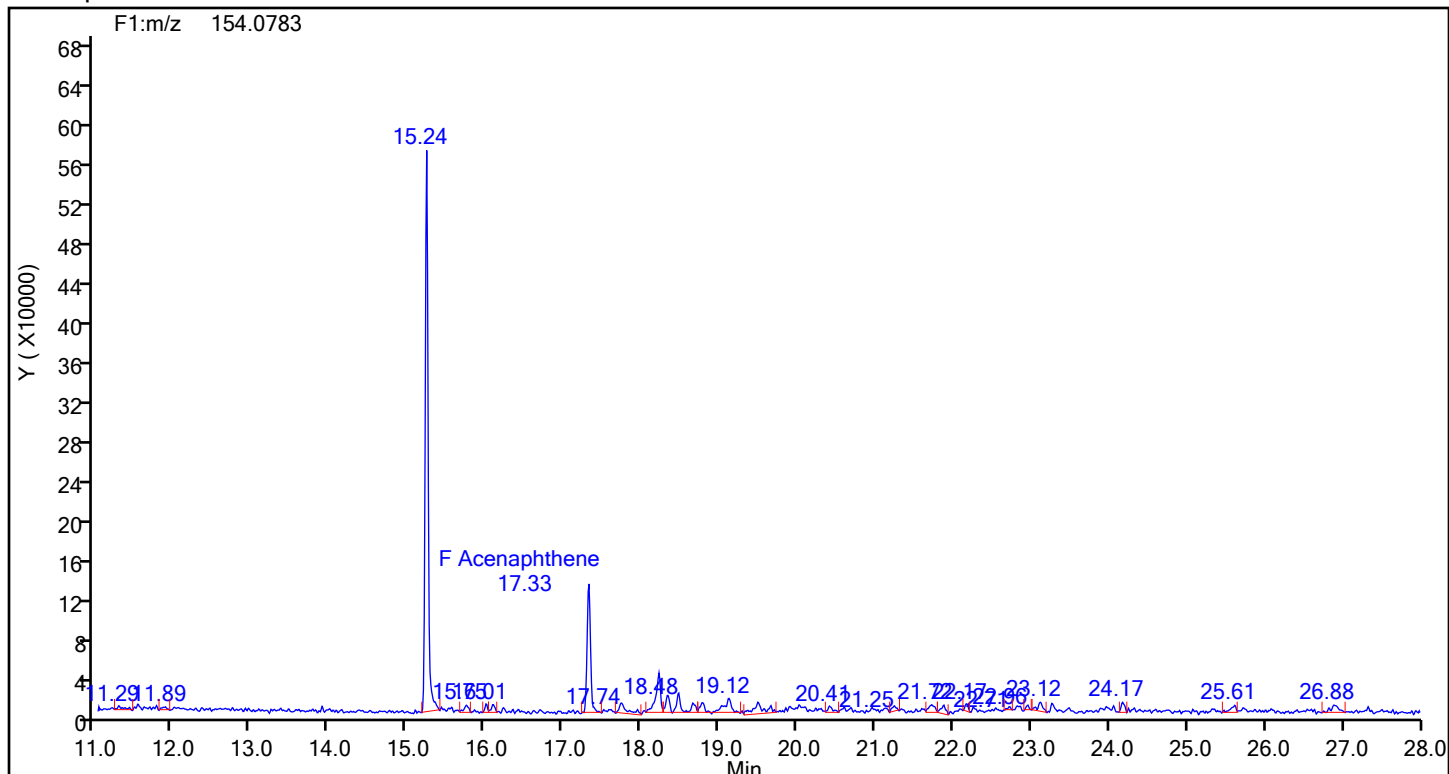
13C6-Acenaphthylene Standards



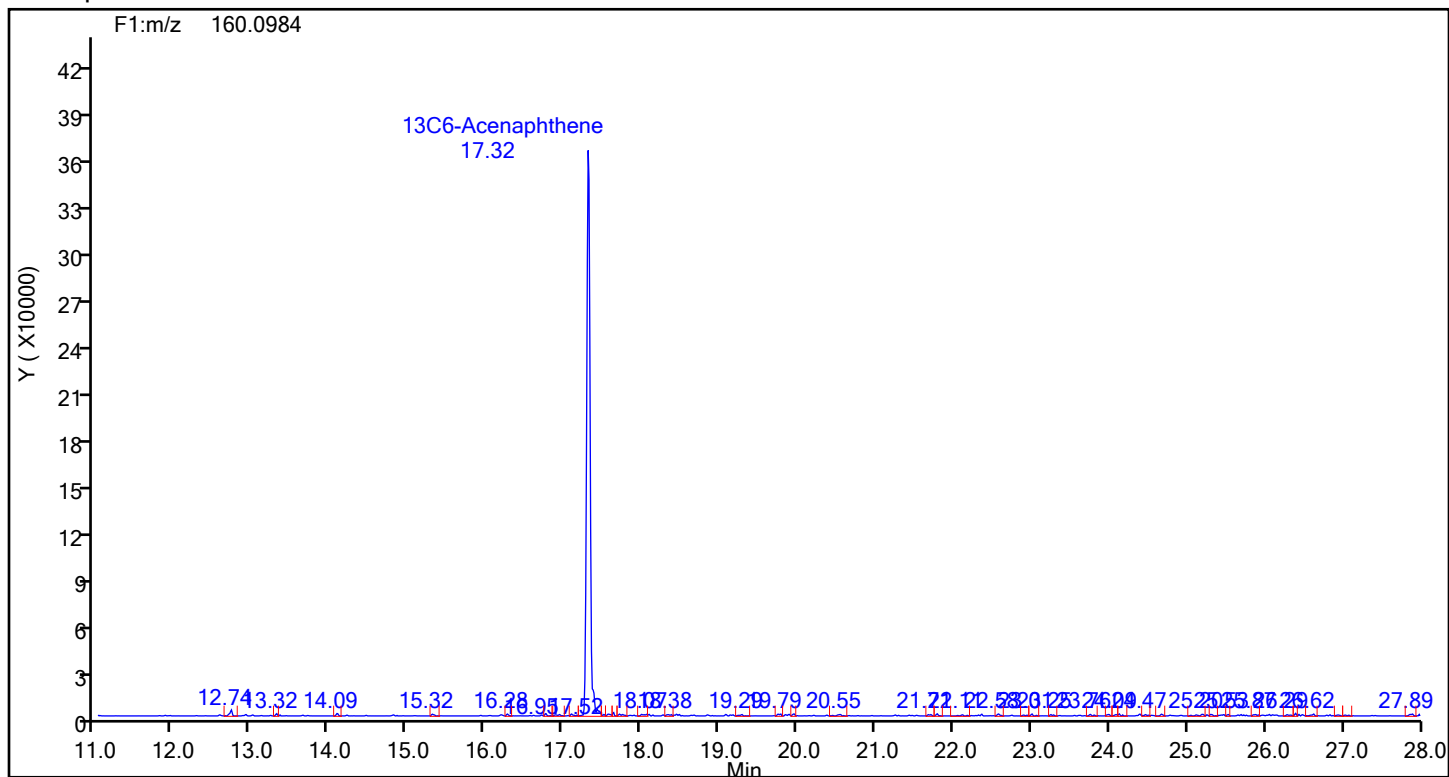
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



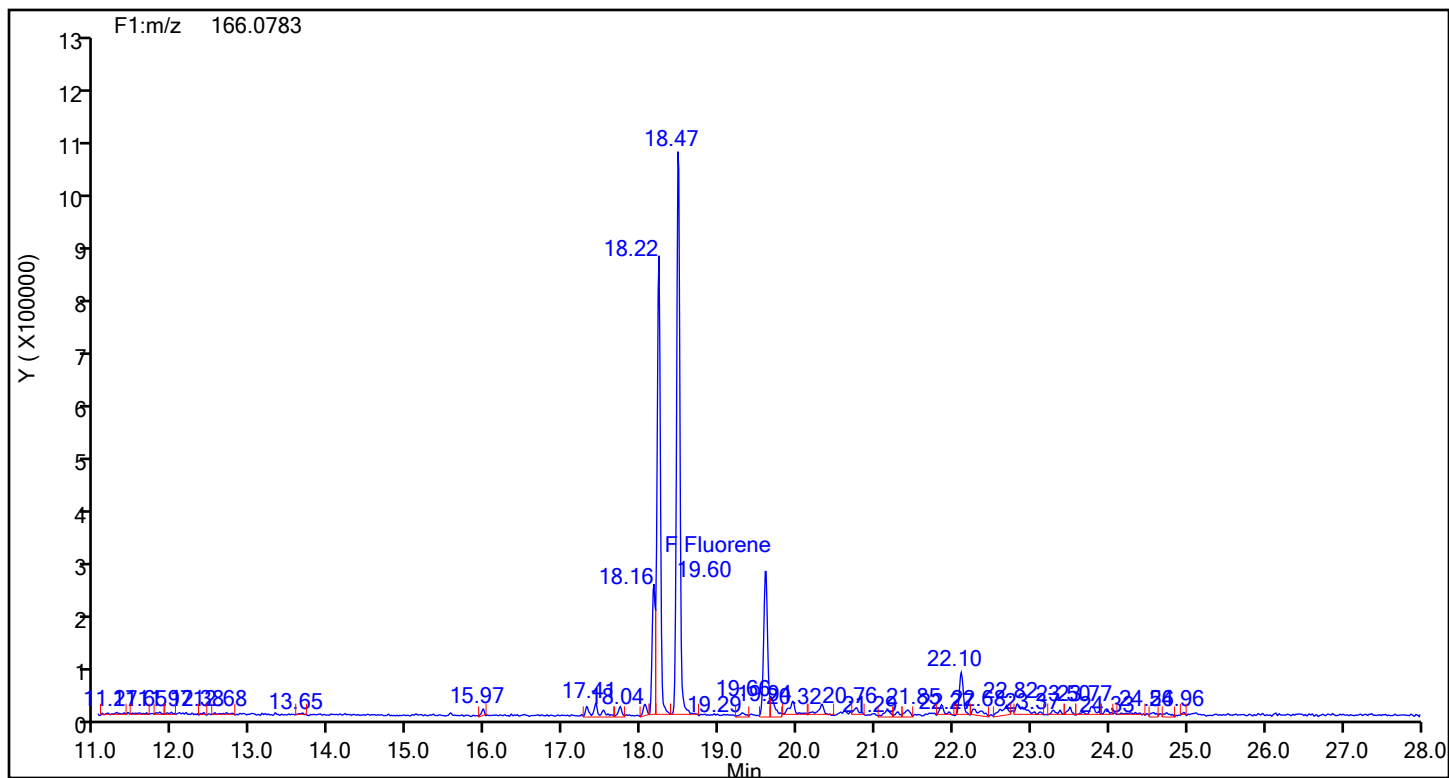
Acenaphthene Standards



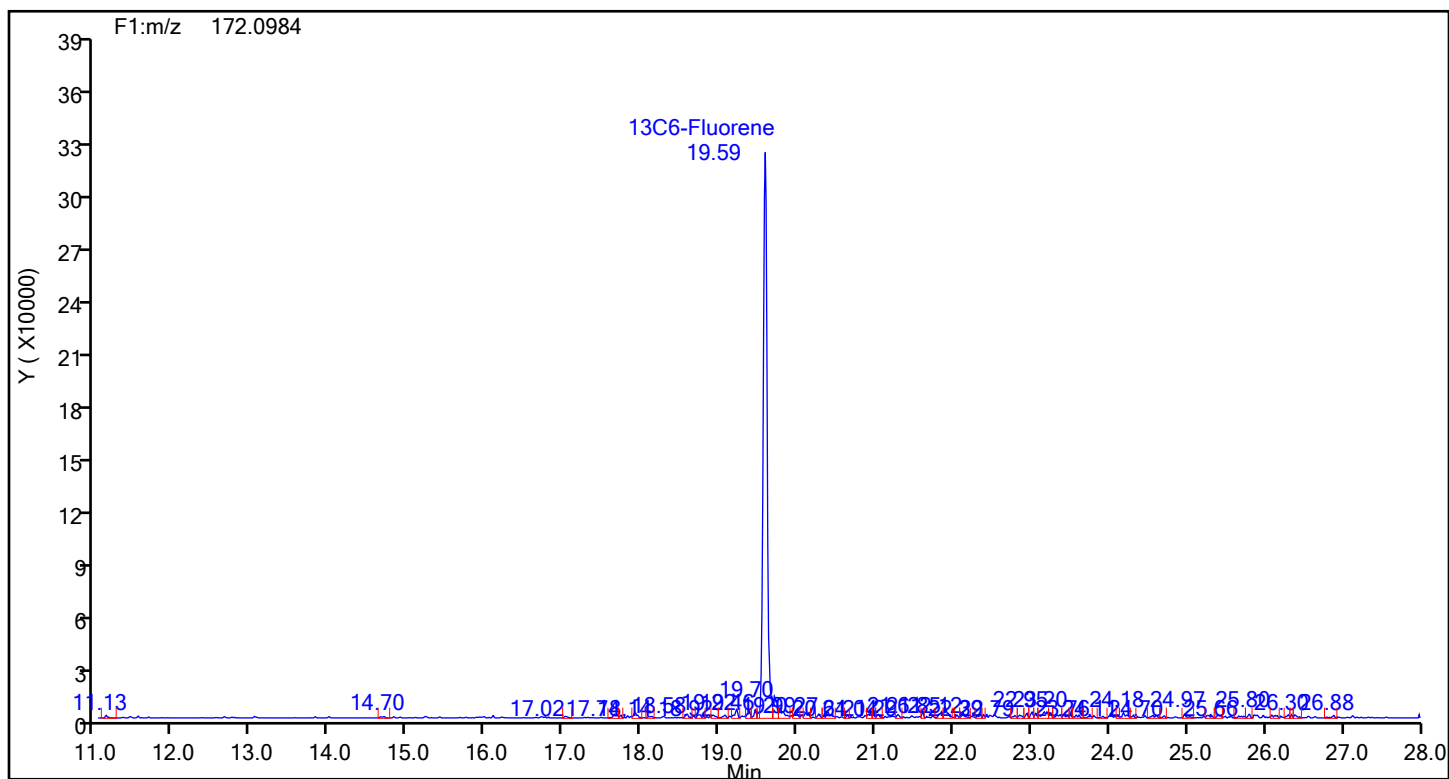
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

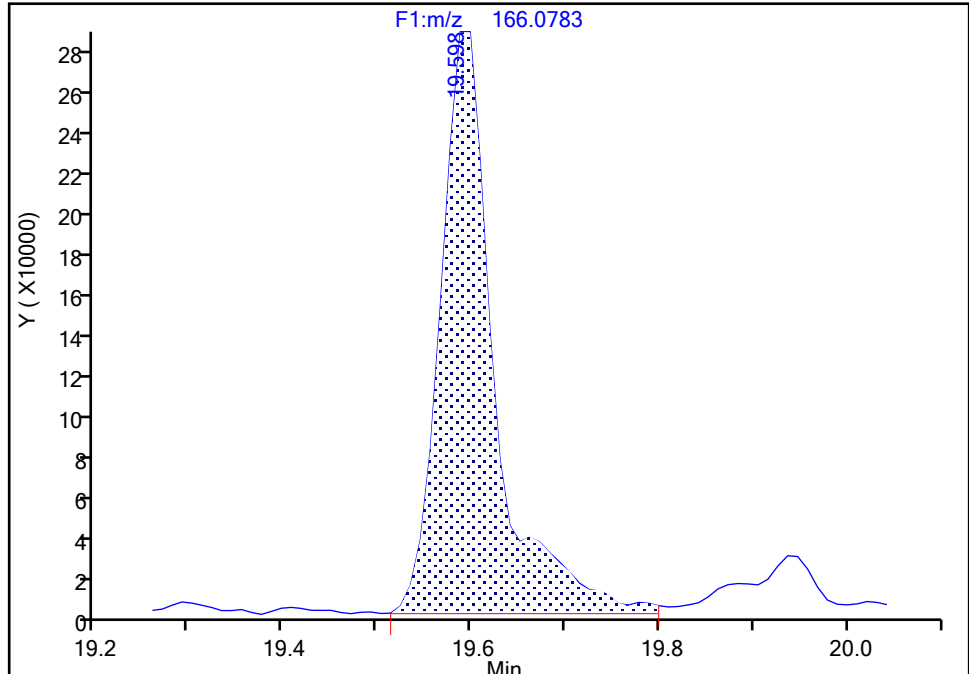
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Fluorene, CAS: 86-73-7

Signal: 1

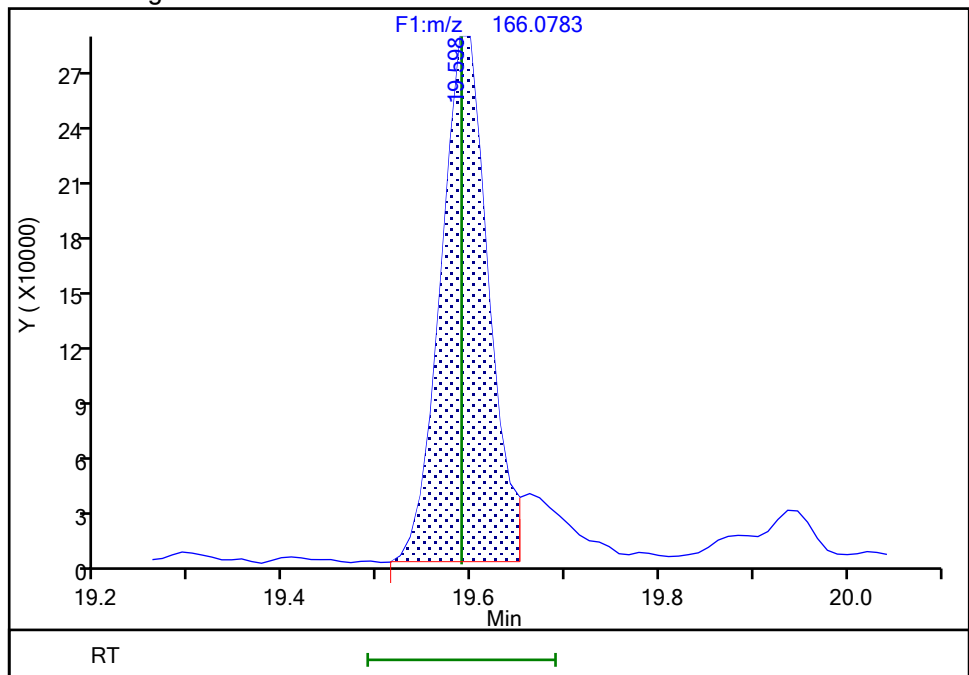
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Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d

Injection Date: 20-Jul-2024 08:22:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

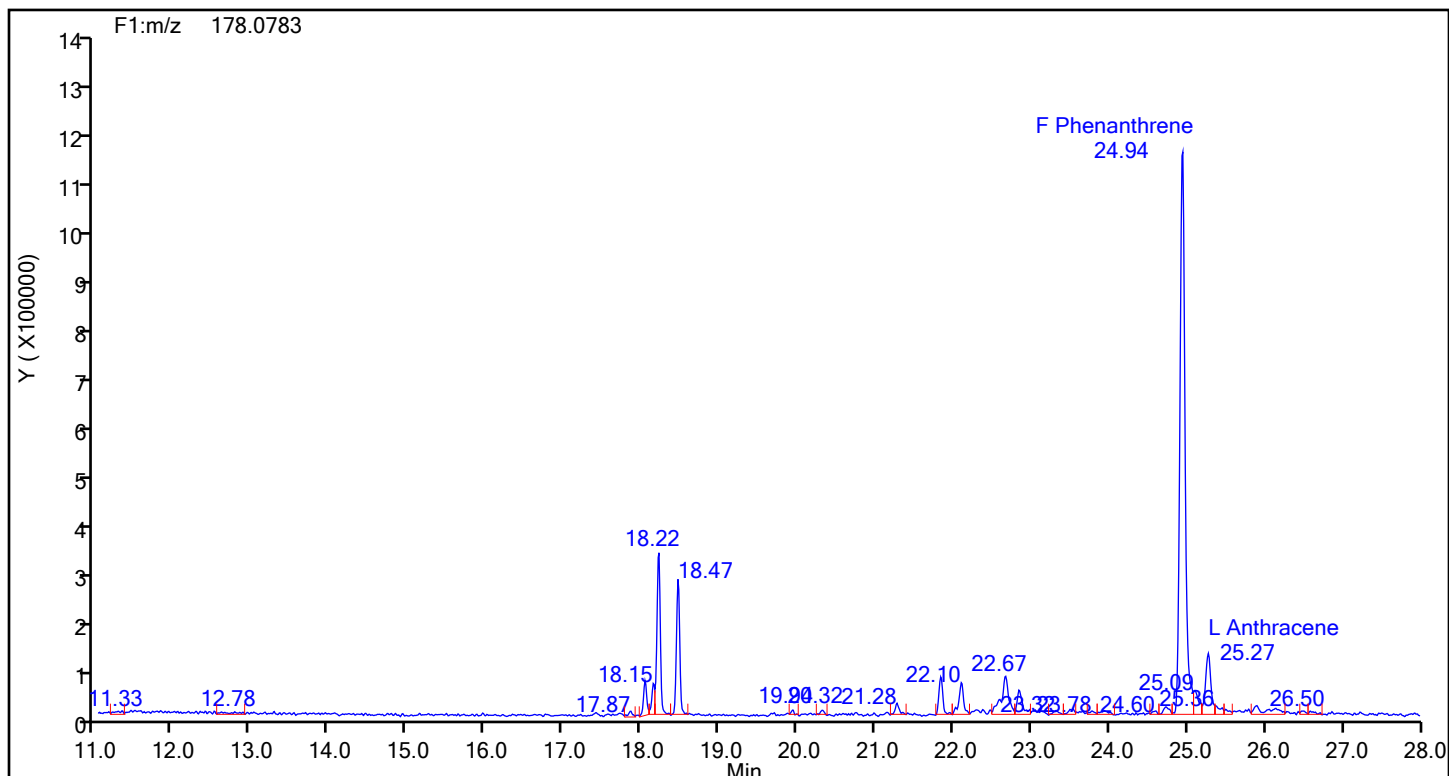
Worklist#: 88999

Sample Line#: 9

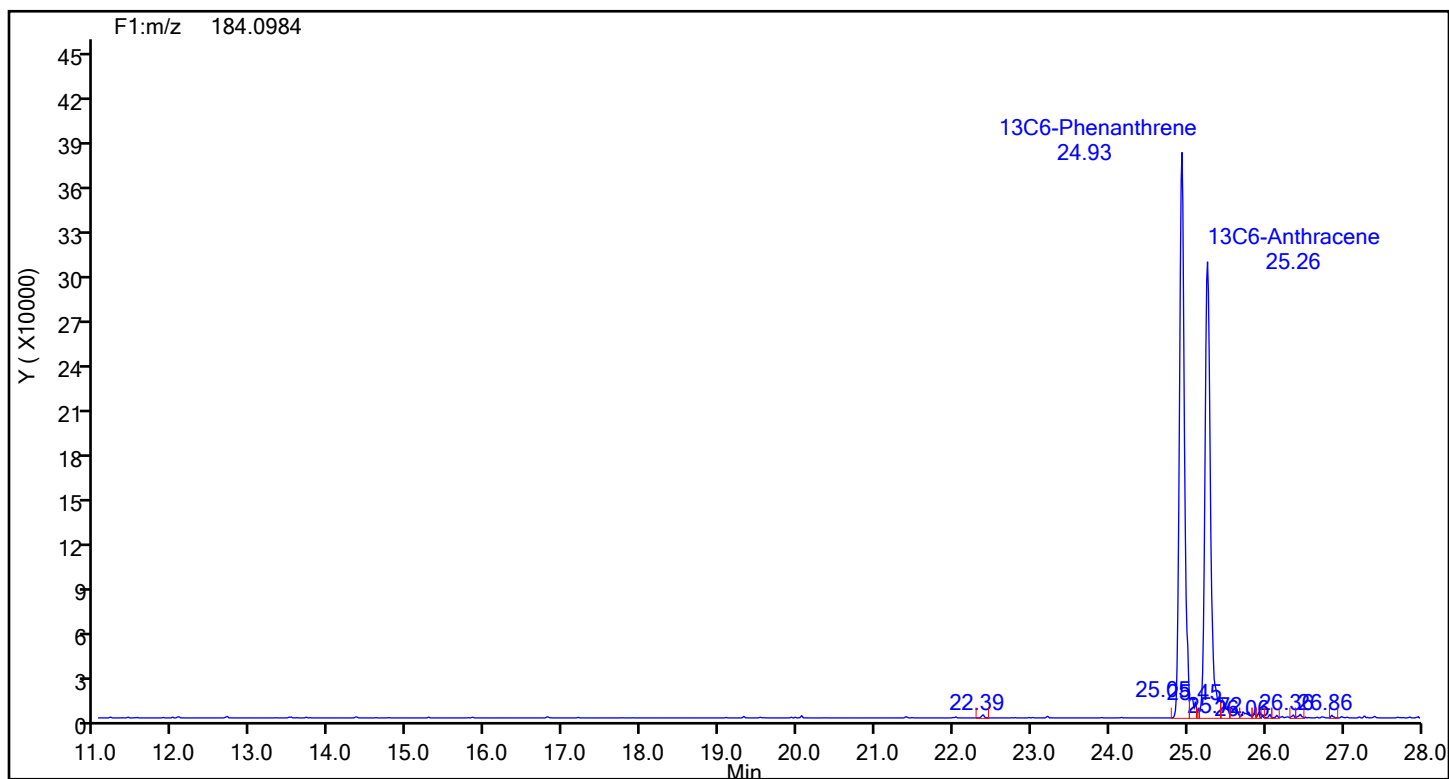
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

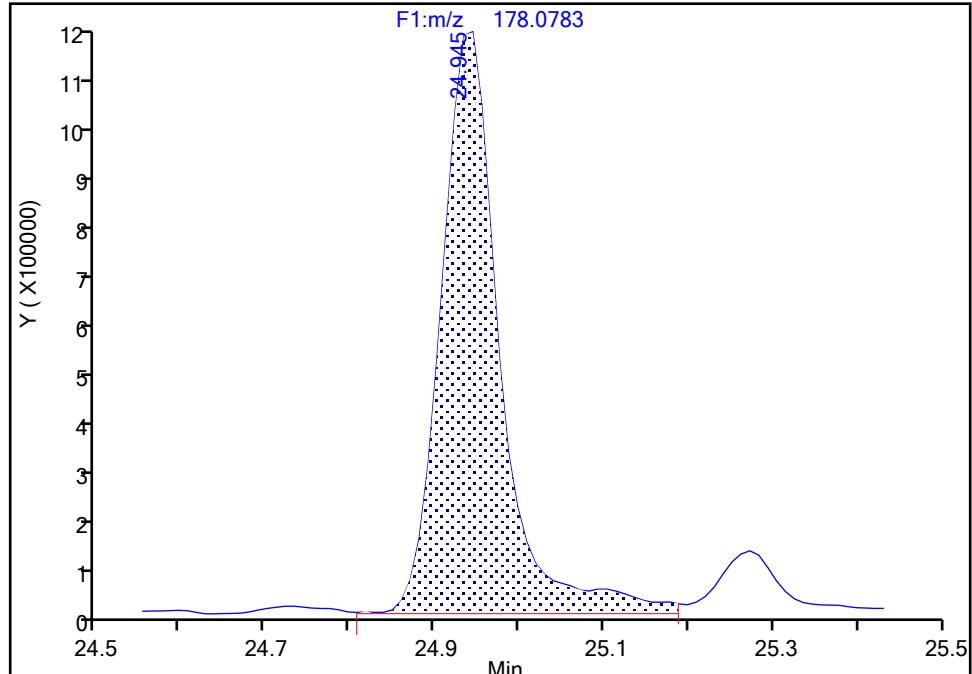
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Phenanthrene, CAS: 85-01-8

Signal: 1

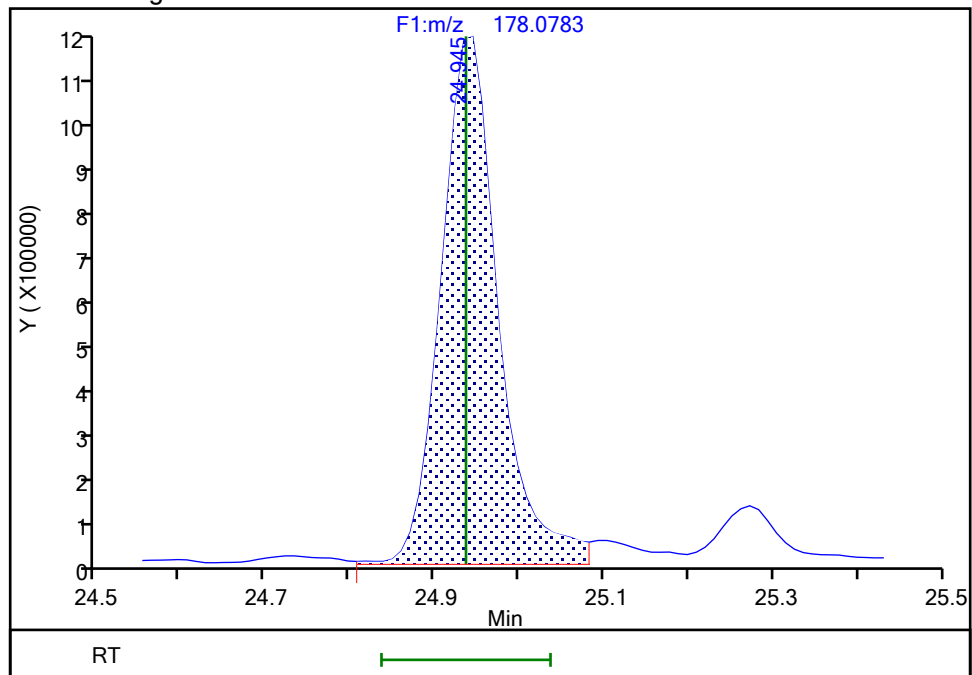
RT: 24.94
Area: 5306736
Amount: 28.417440
Amount Units: pg/ul

Processing Integration Results



RT: 24.94
Area: 5110546
Amount: 27.366847
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:30:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

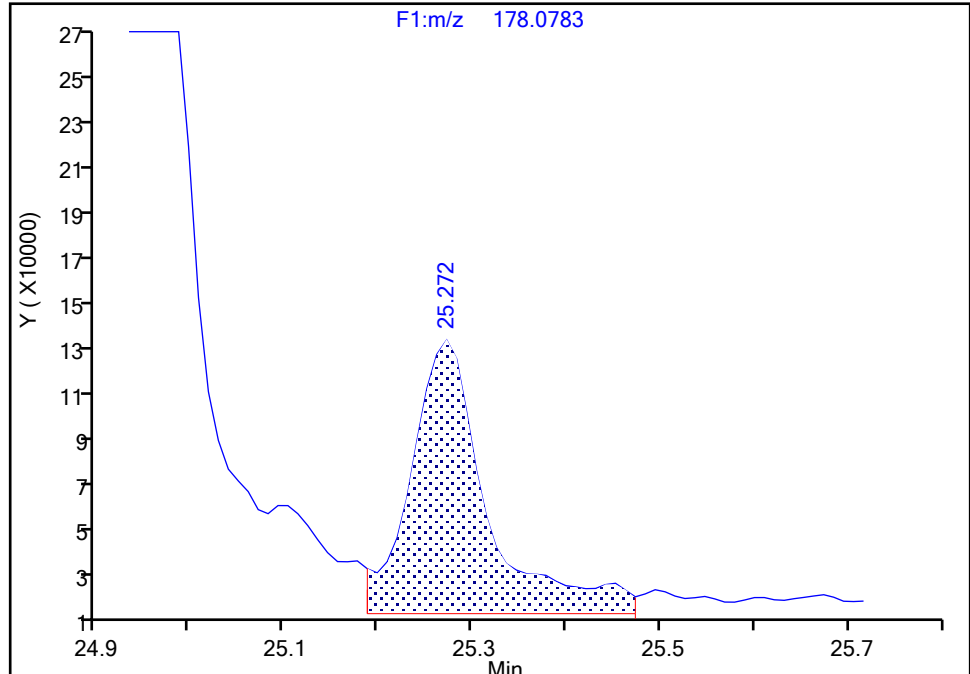
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Anthracene, CAS: 120-12-7

Signal: 1

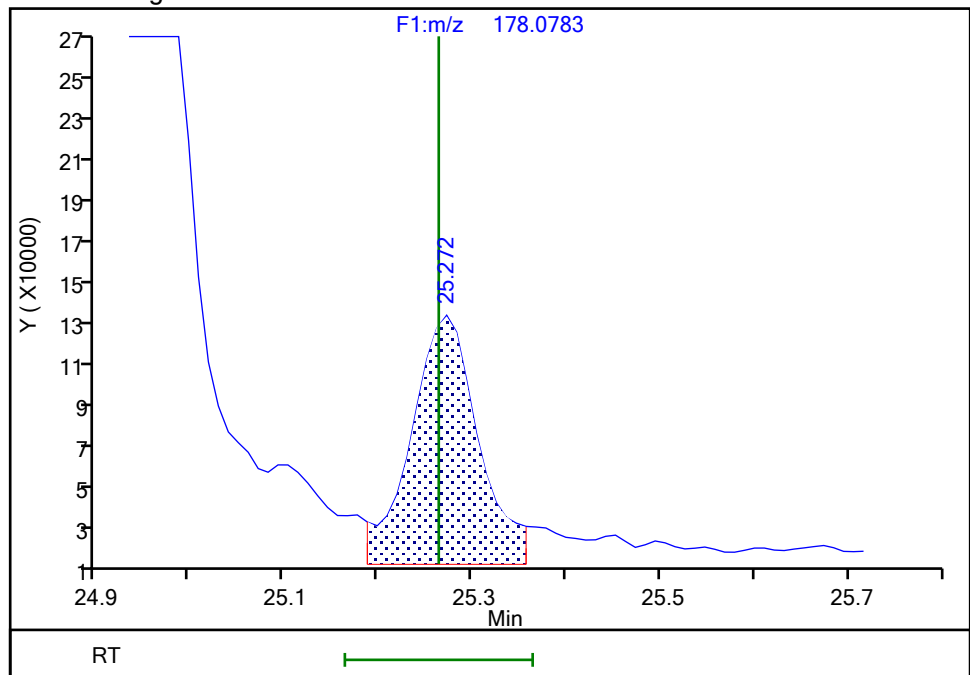
RT: 25.27
Area: 674895
Amount: 3.244021
Amount Units: pg/ul

Processing Integration Results



RT: 25.27
Area: 595061
Amount: 2.860283
Amount Units: pg/ul

Manual Integration Results



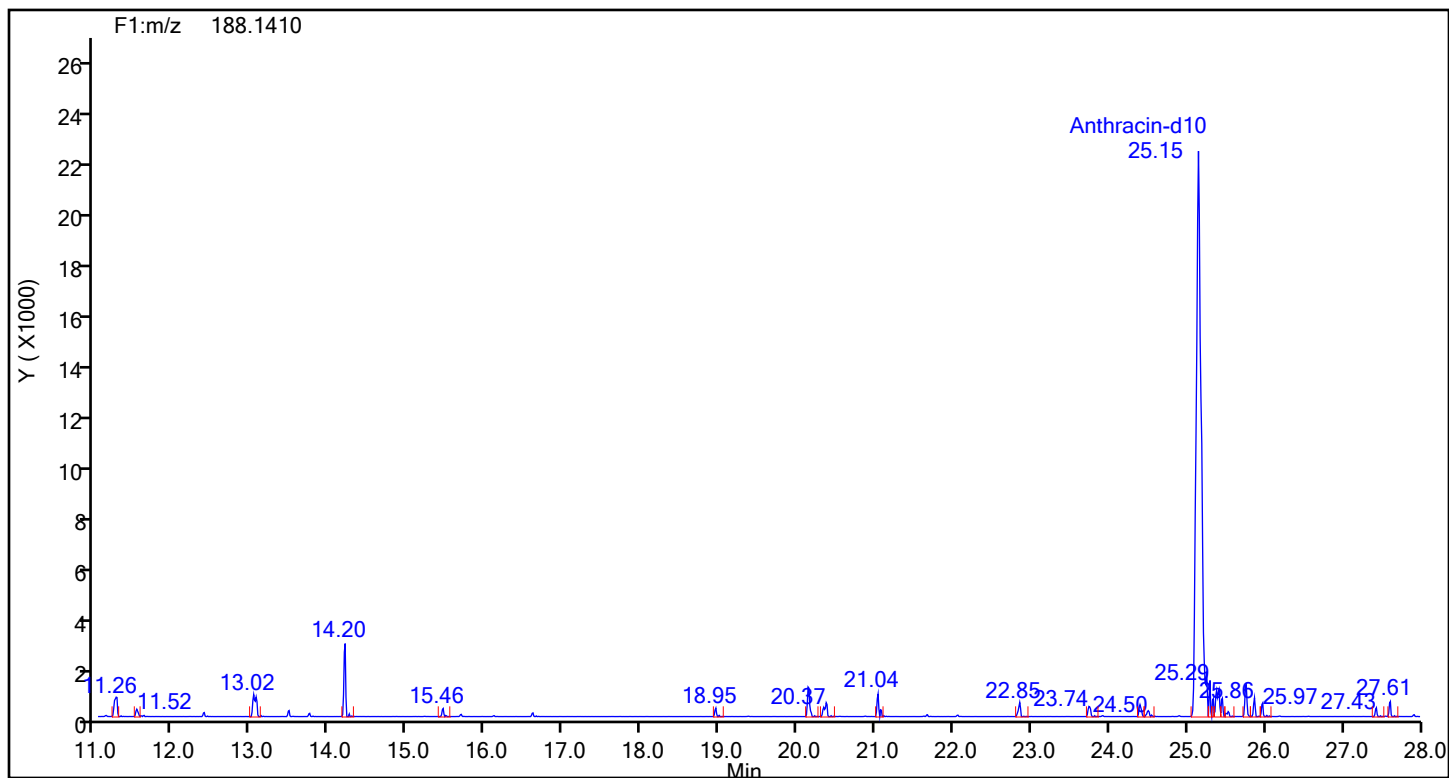
Reviewer: TT6I, 20-Jul-2024 11:29:30 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

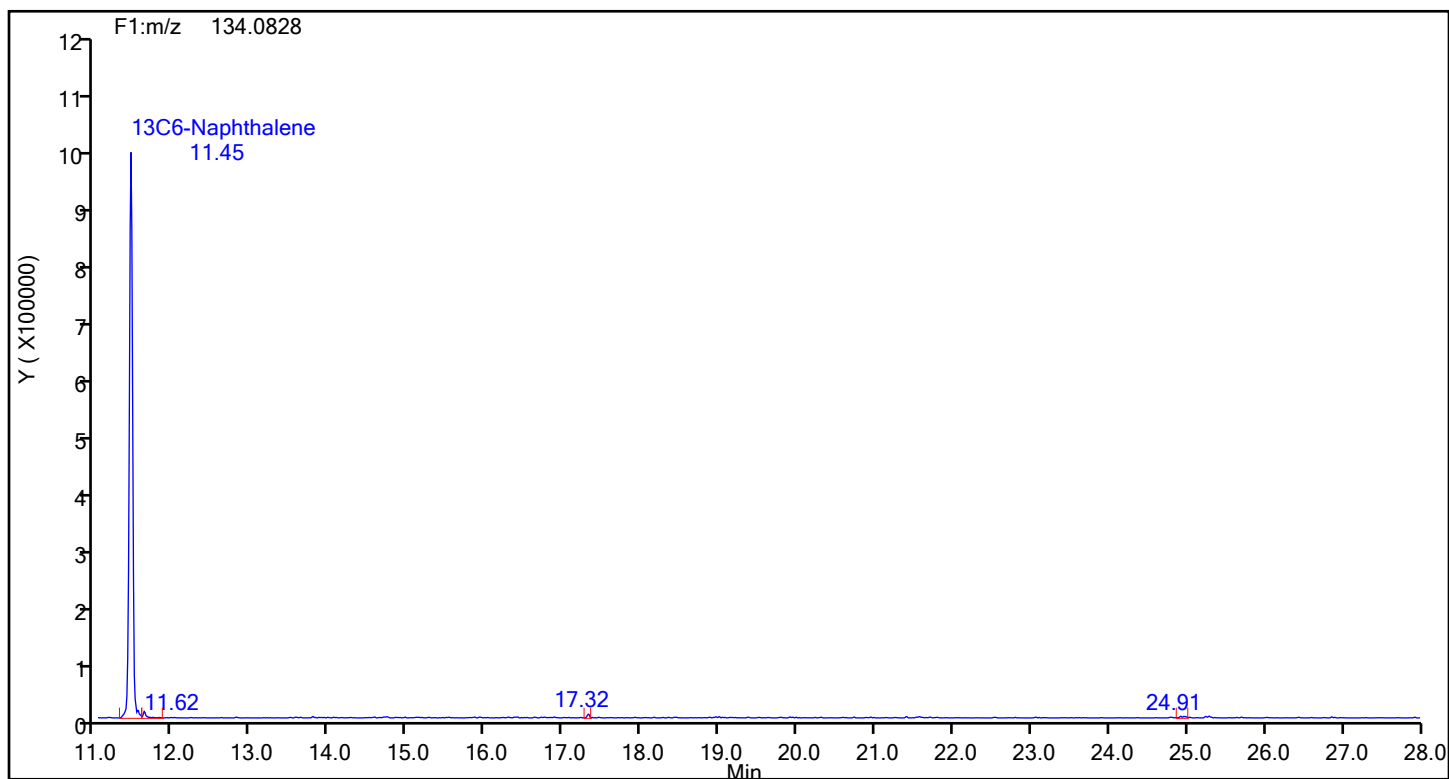
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



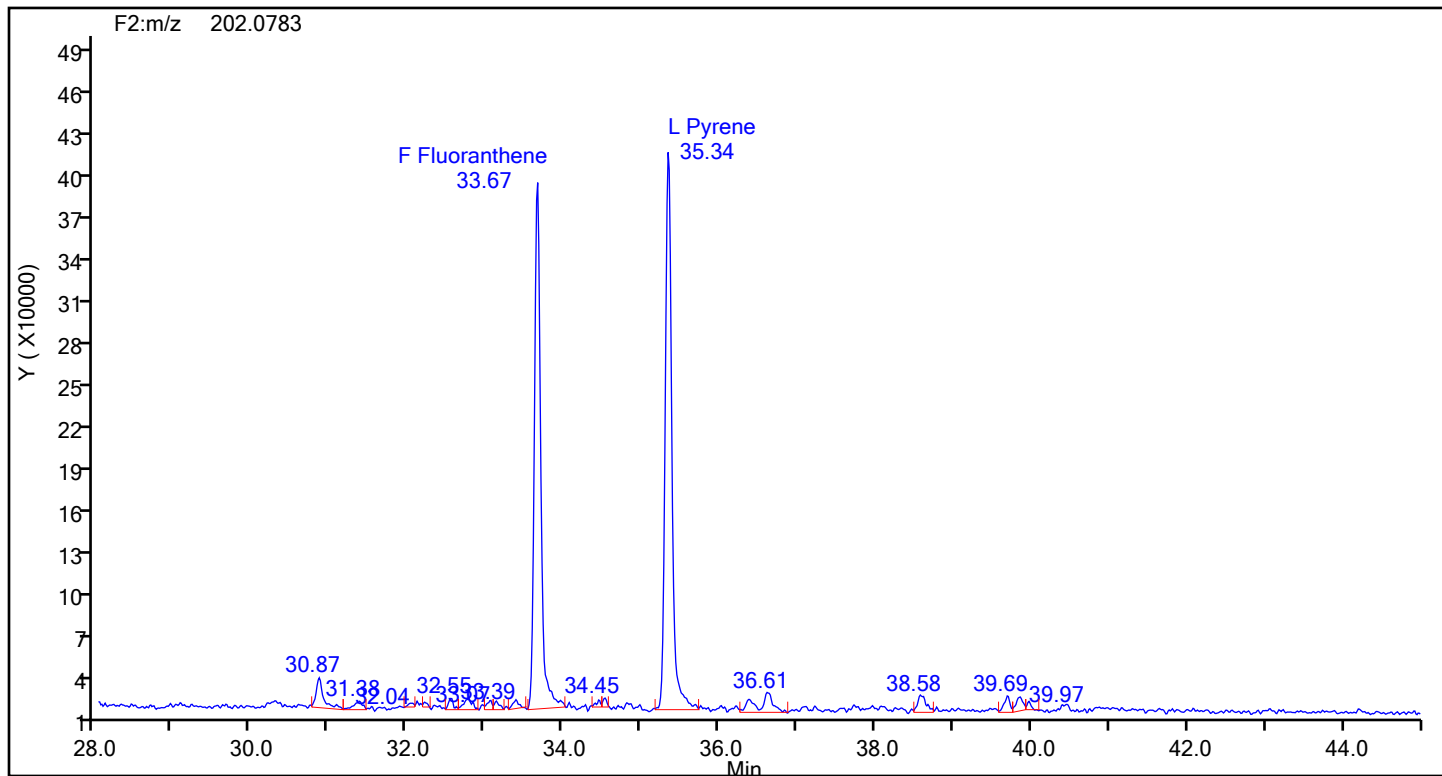
Anthracin-d10 Standards



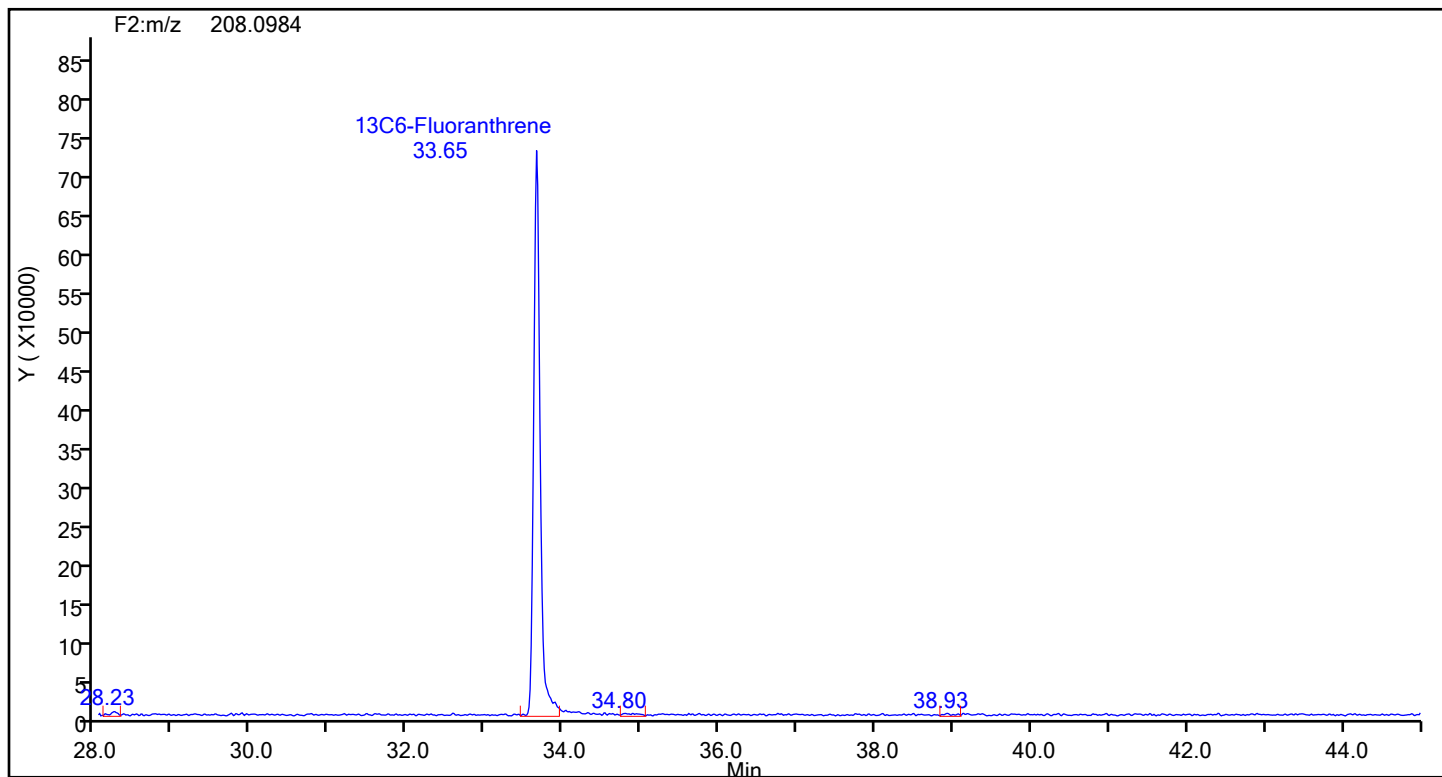
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d

Injection Date: 20-Jul-2024 08:22:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

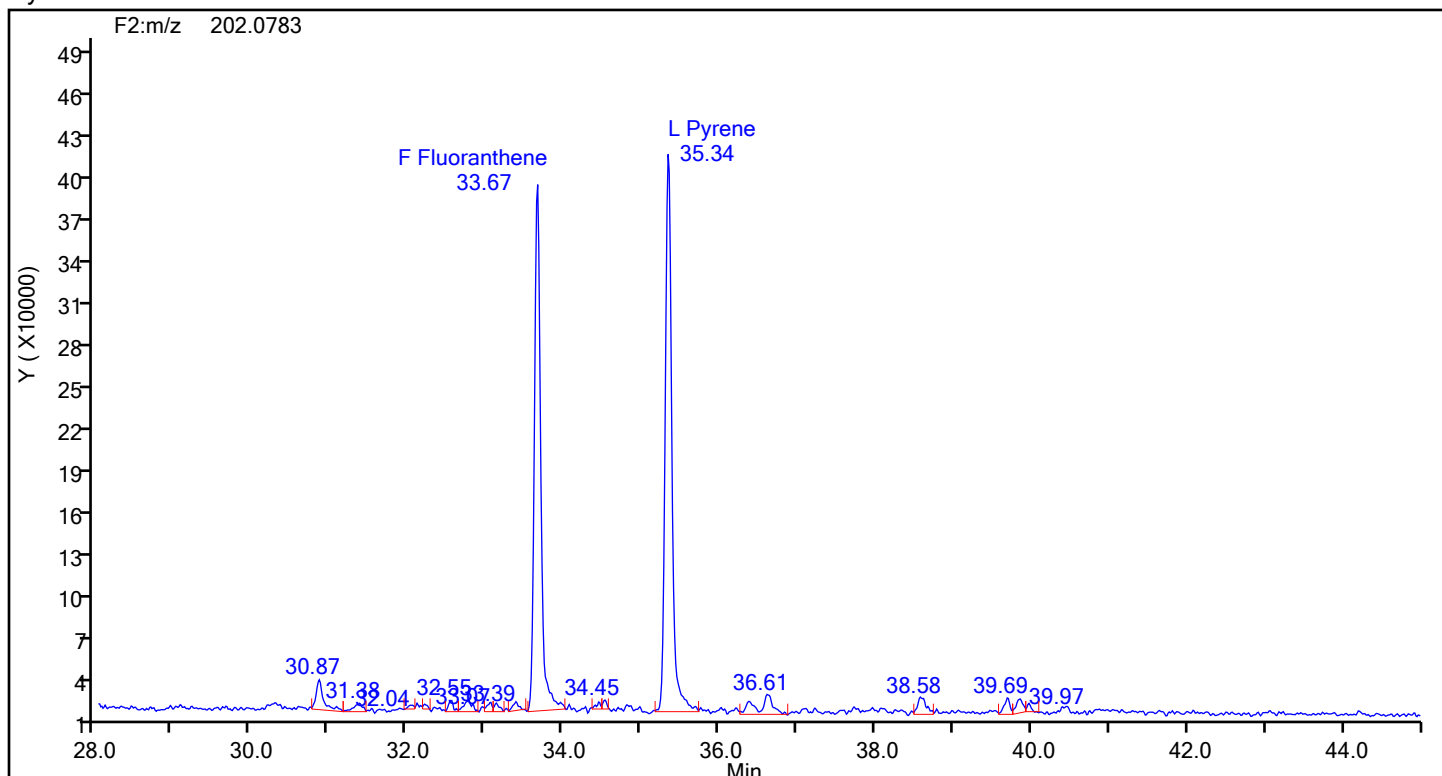
Worklist#: 88999

Sample Line#: 9

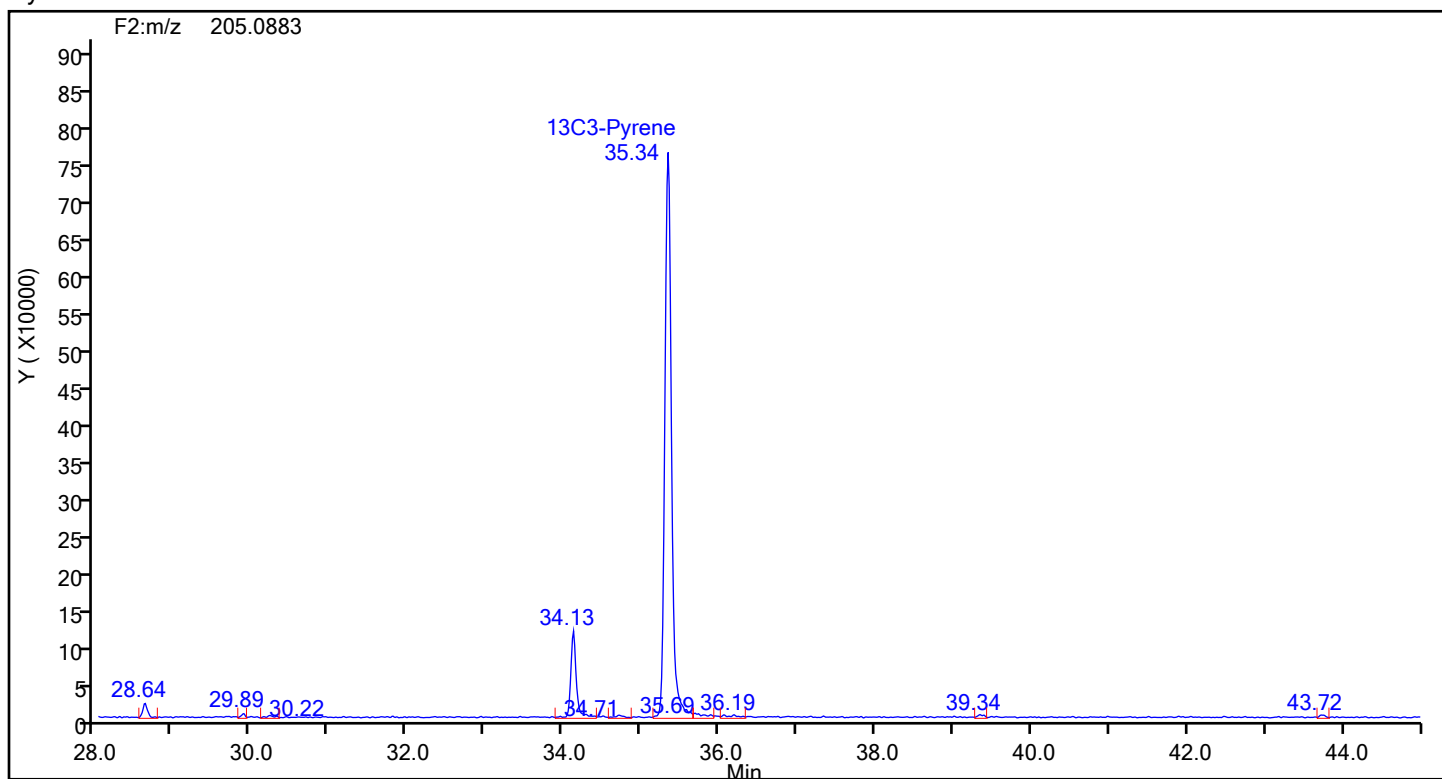
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Pyrene



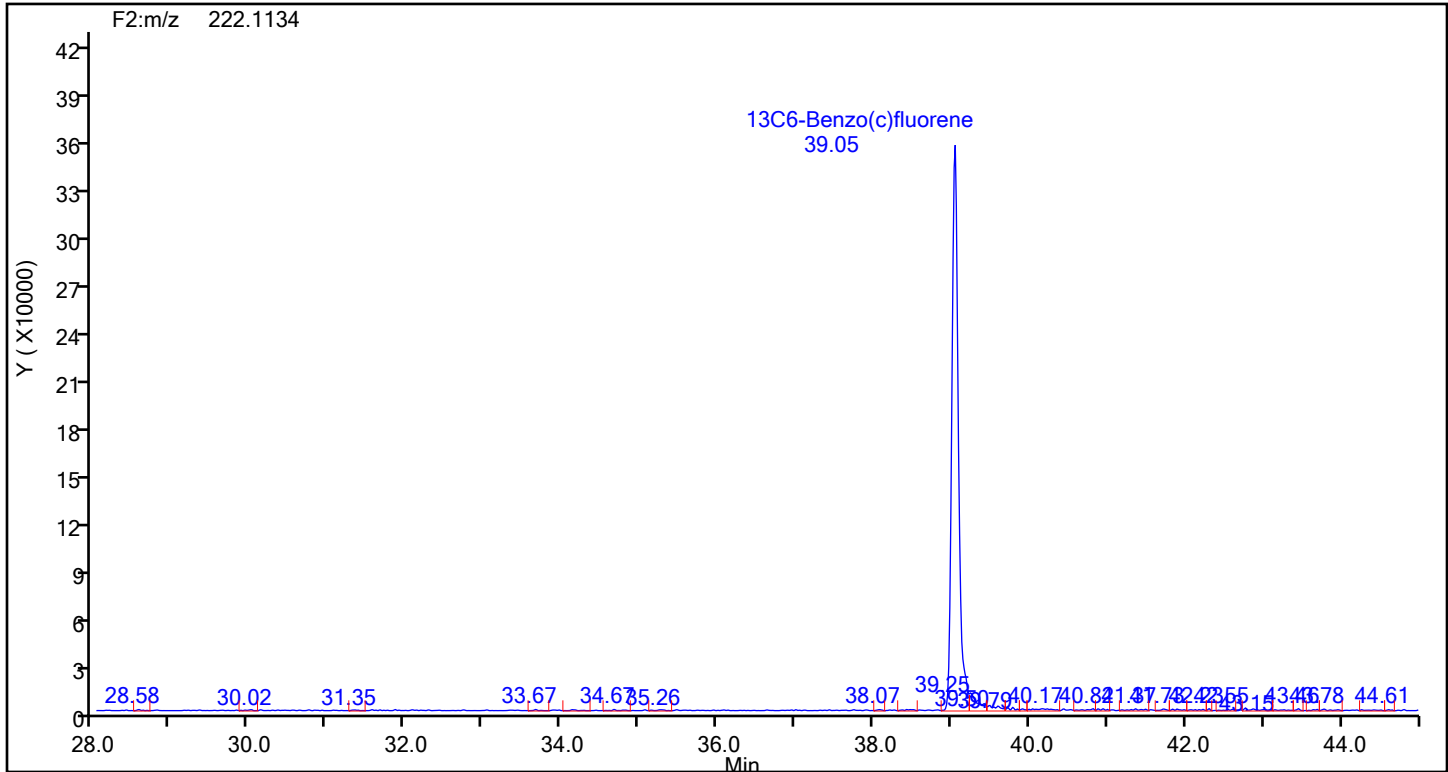
Pyrene Standards



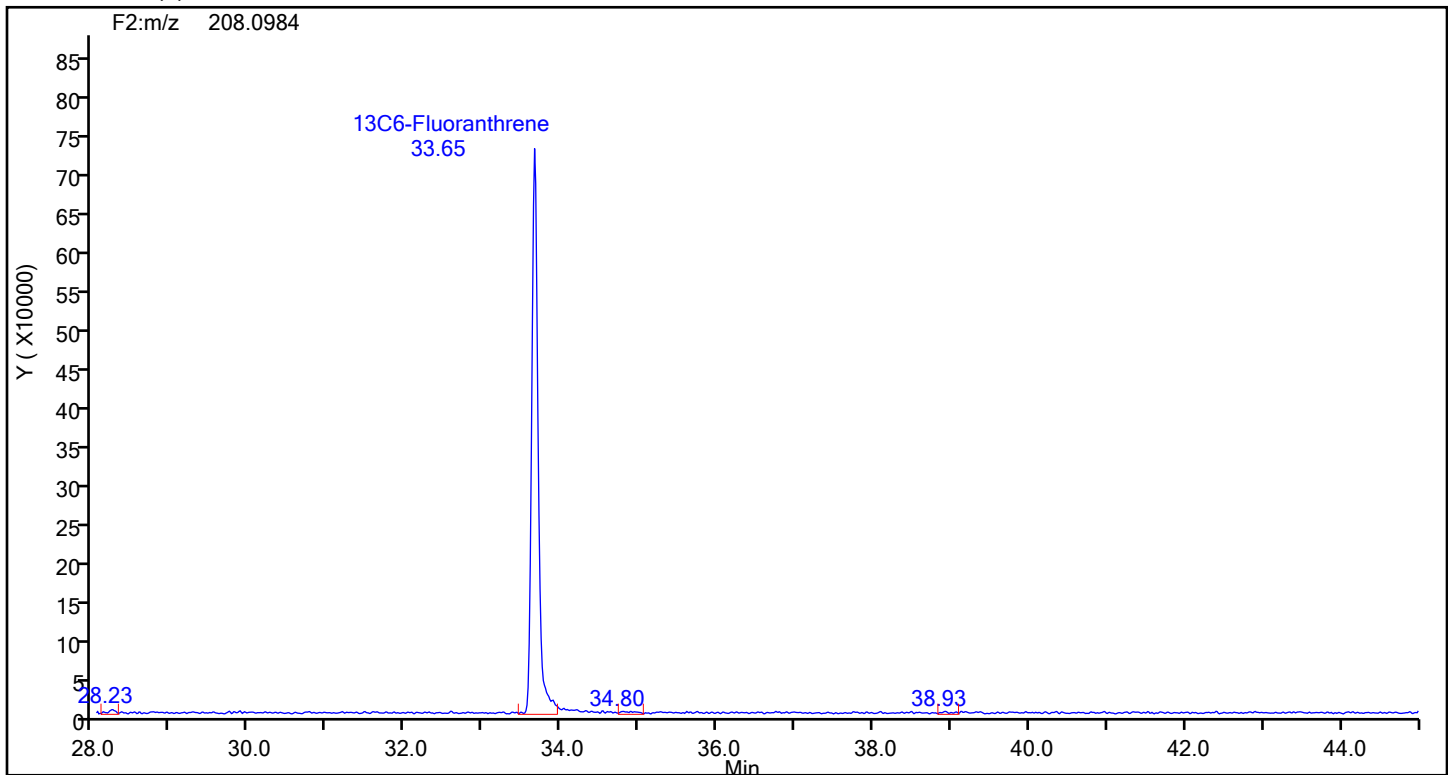
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



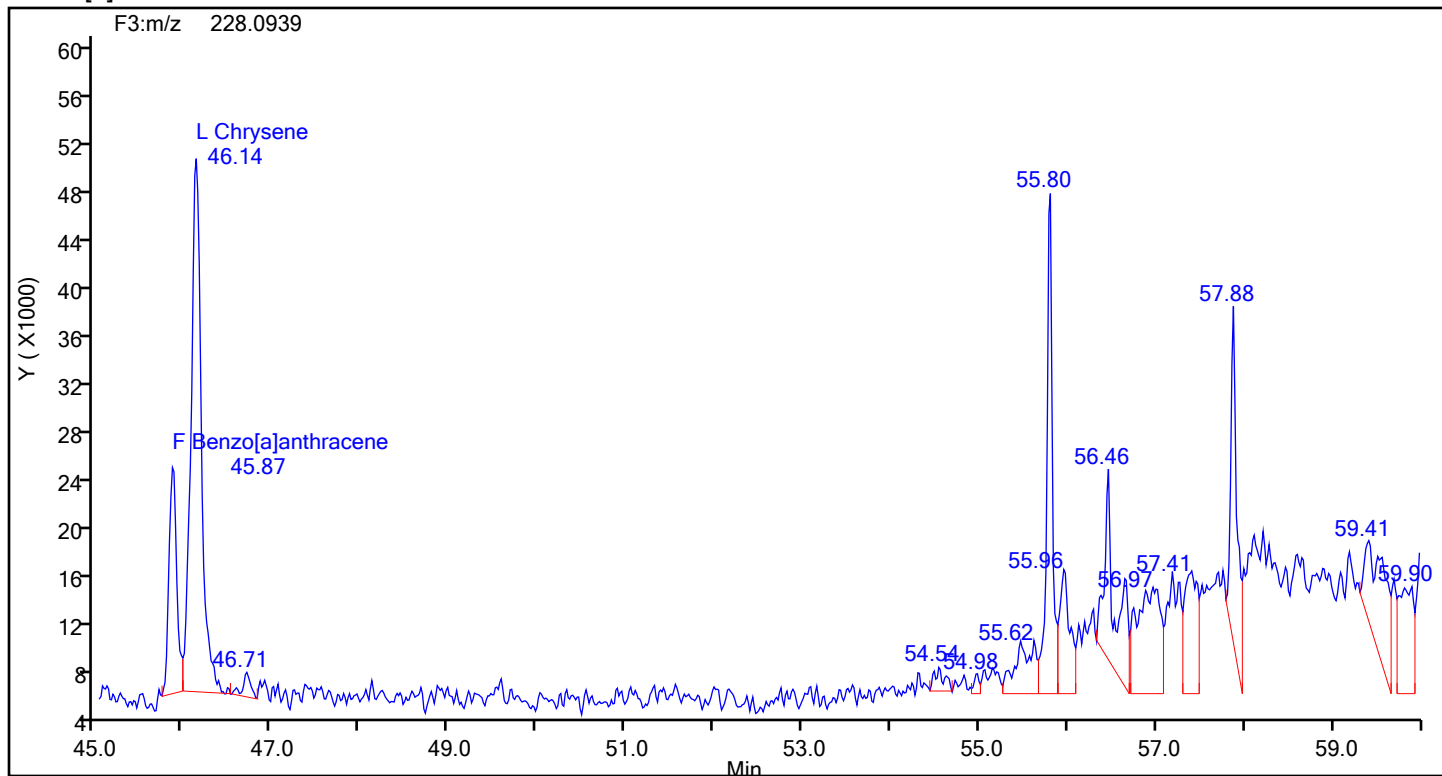
13C6-Benzo(c)fluorene Standards



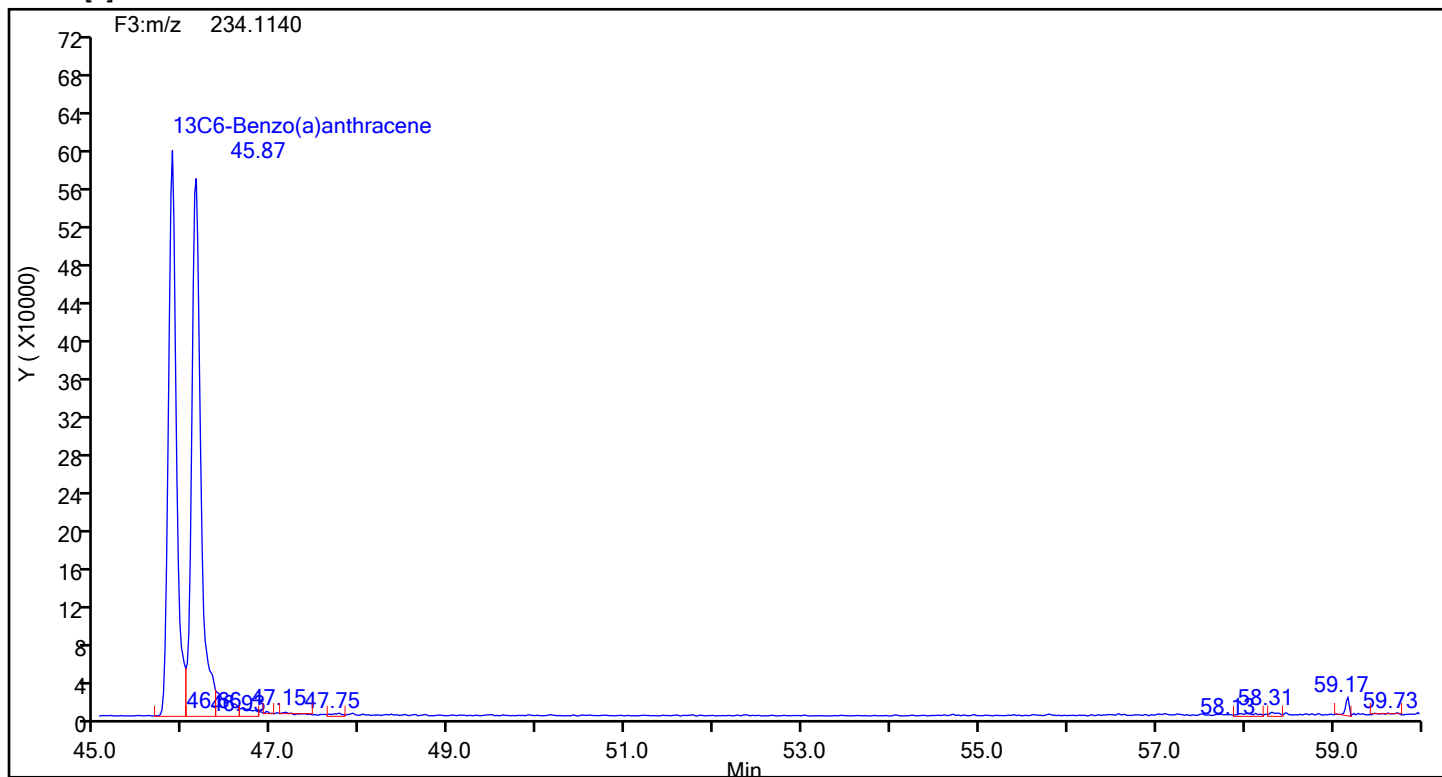
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

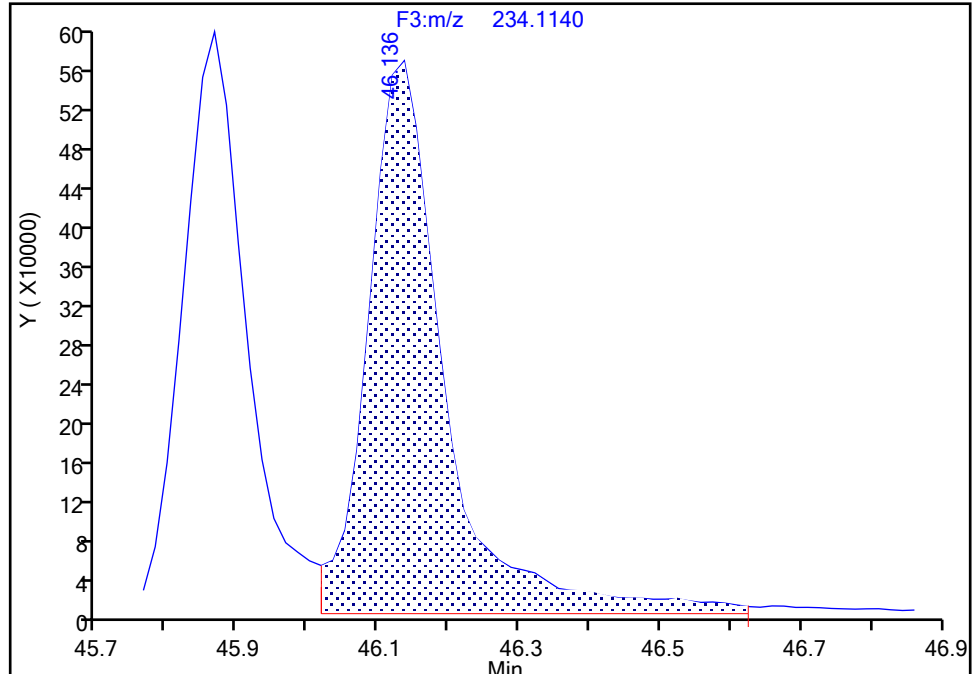
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Chrysene, CAS: 1397177-72-8

Signal: 1

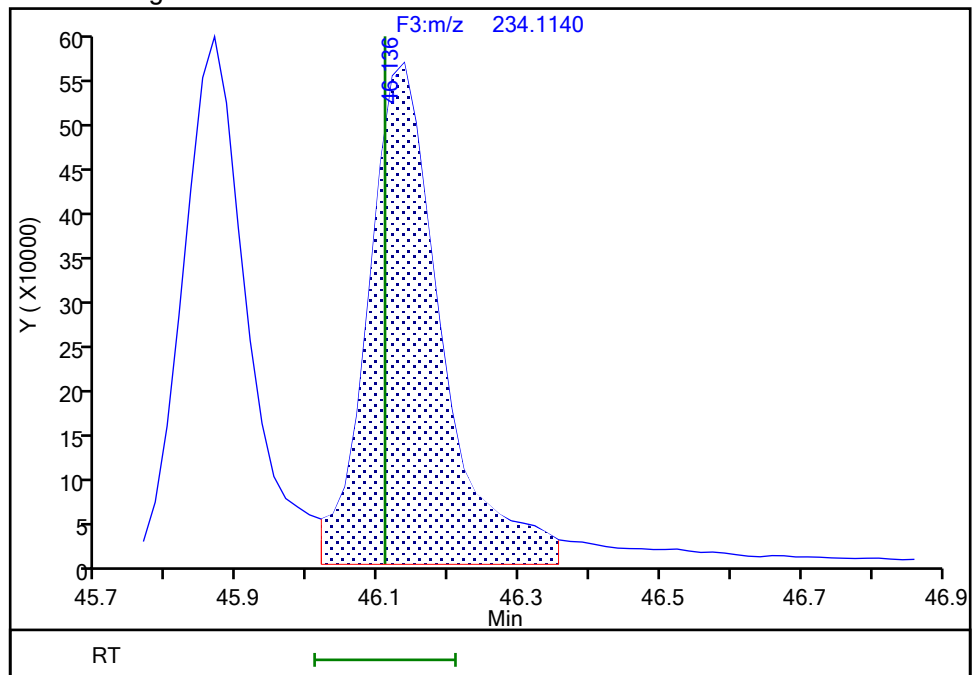
RT: 46.14
Area: 4362069
Amount: 7.248251
Amount Units: pg/ul

Processing Integration Results



RT: 46.14
Area: 4134469
Amount: 7.189619
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:45 -04:00:00 (UTC)

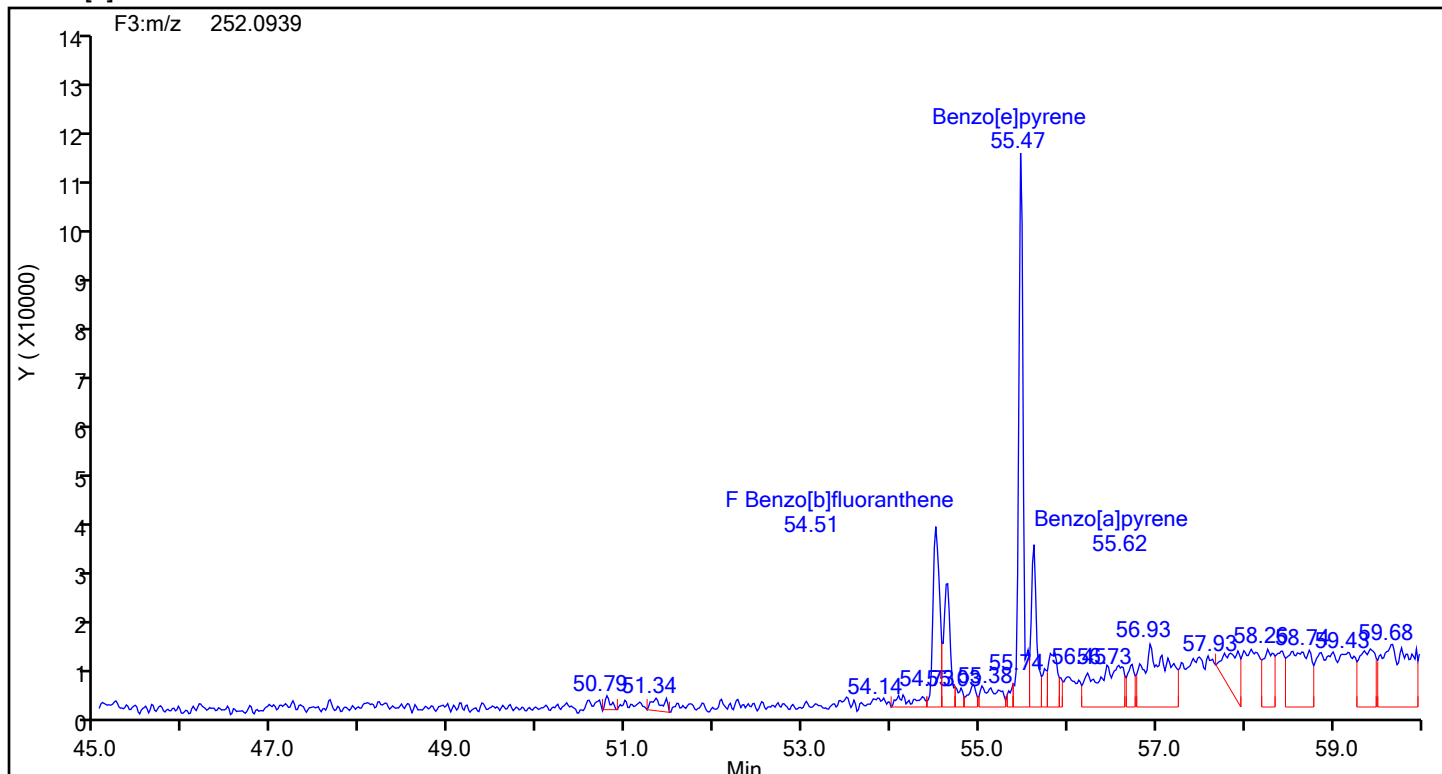
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

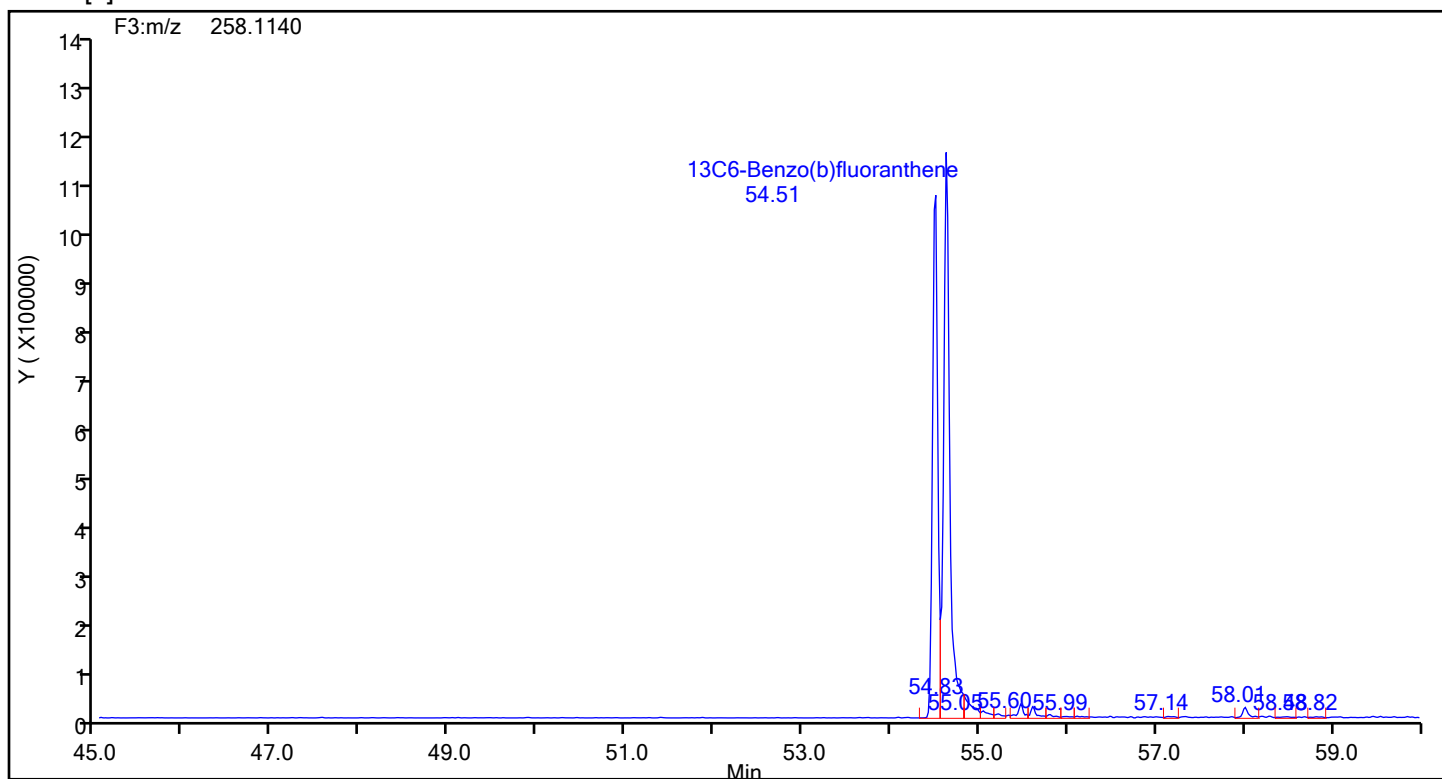
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

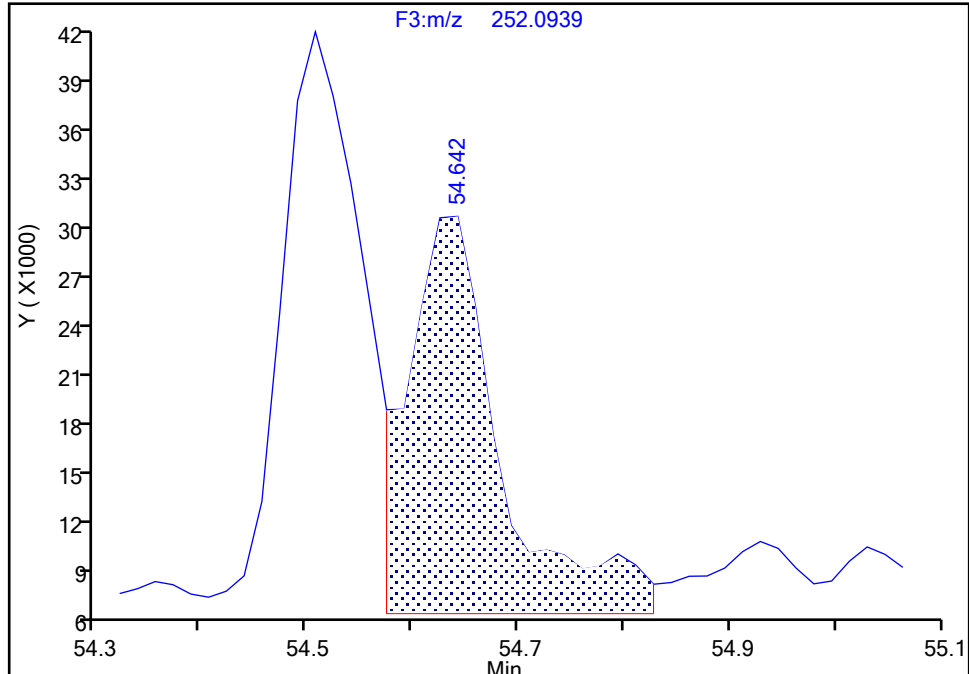
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

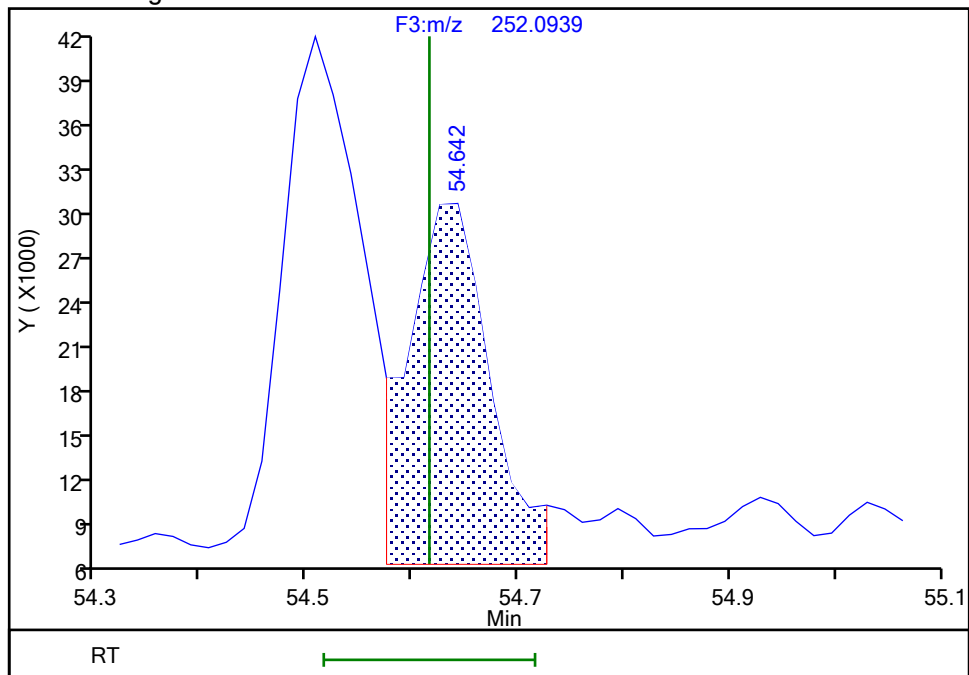
RT: 54.64
Area: 145007
Amount: 0.233515
Amount Units: pg/ul

Processing Integration Results



RT: 54.64
Area: 134494
Amount: 0.216585
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

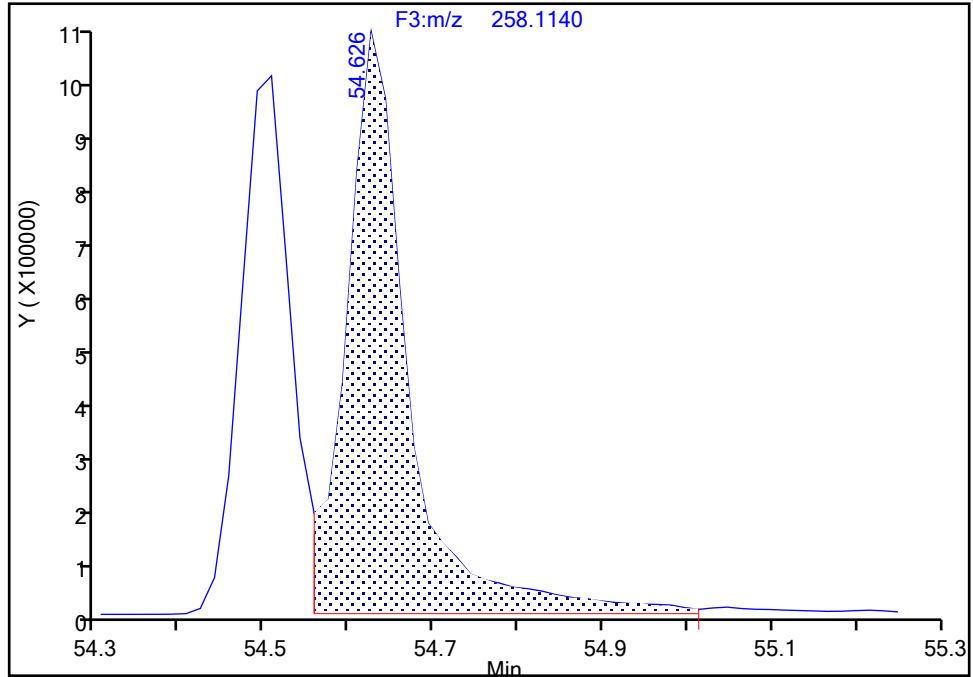
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Benzo(k)fluoranthene, CAS: 1397194-60-3

Signal: 1

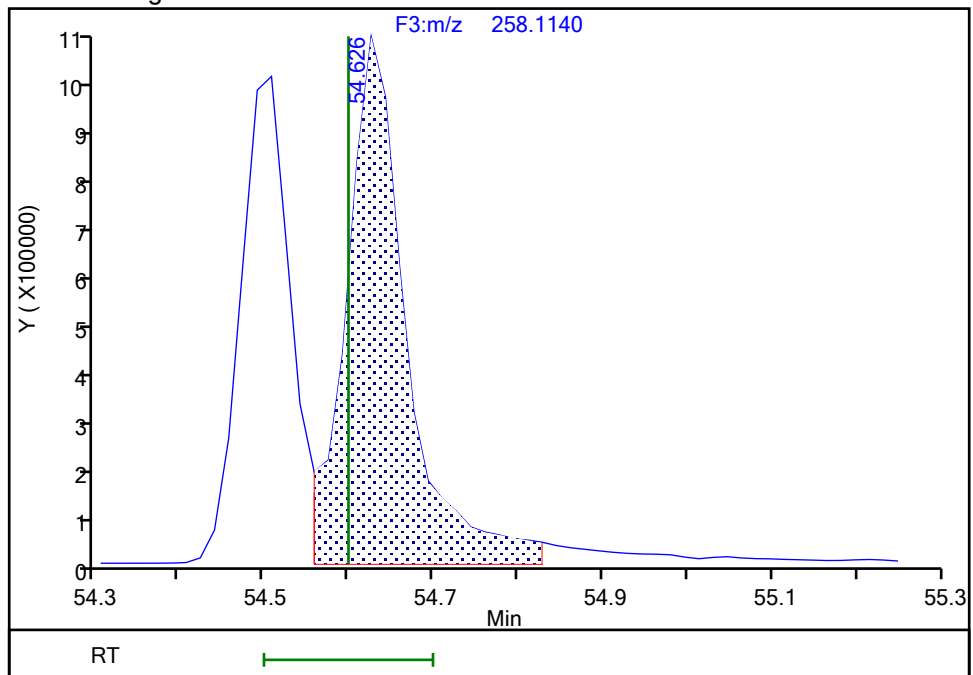
RT: 54.63
Area: 5659328
Amount: 8.748764
Amount Units: pg/ul

Processing Integration Results



RT: 54.63
Area: 5509582
Amount: 8.913452
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:30:07 -04:00:00 (UTC)

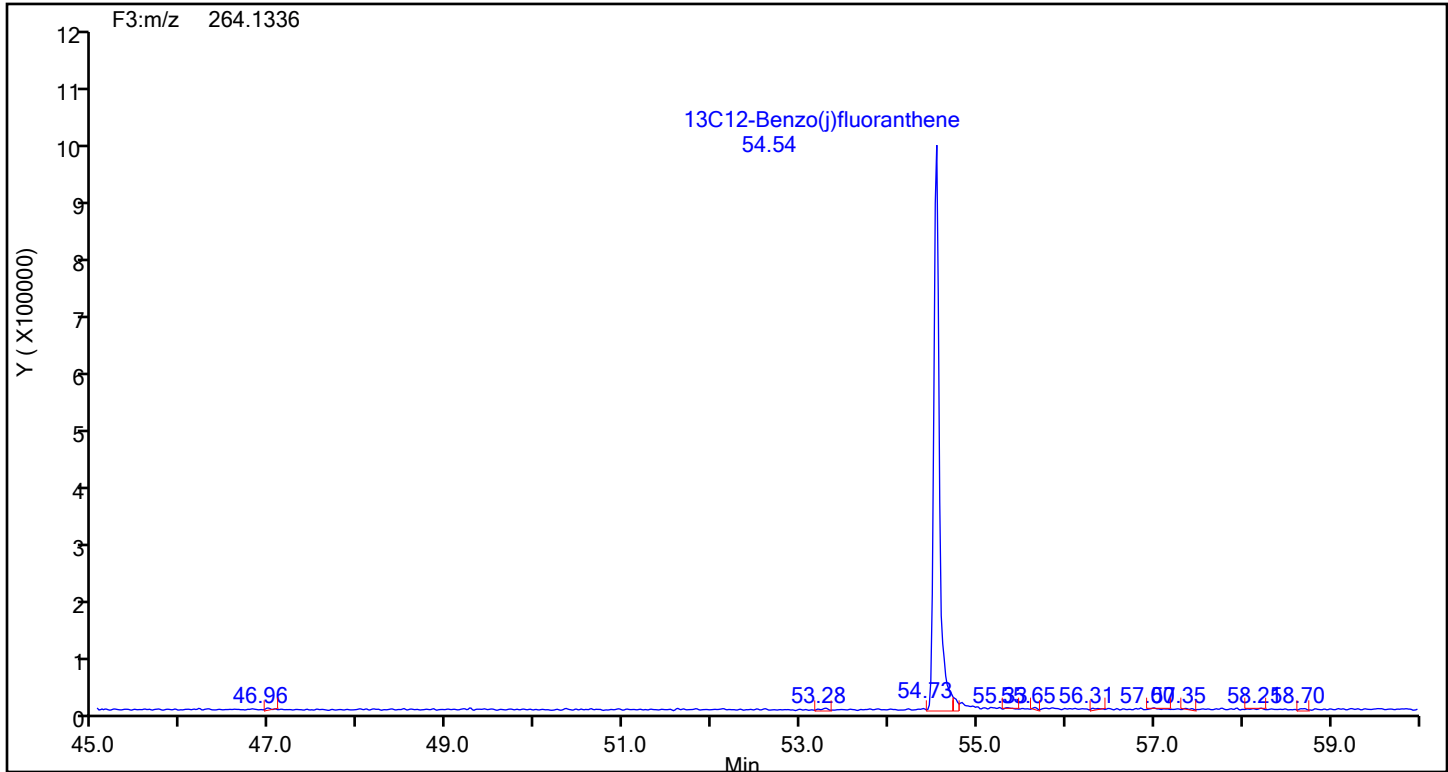
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

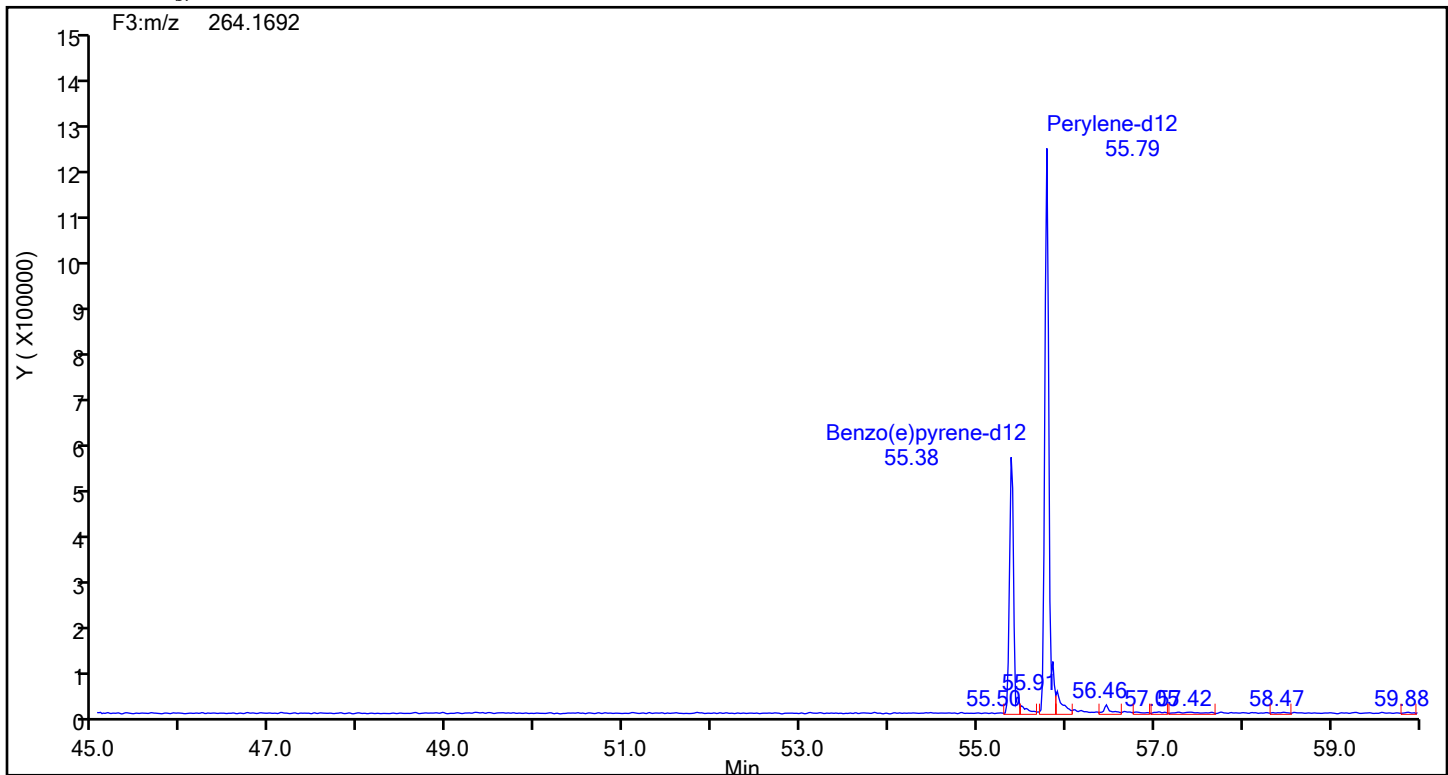
Eurofins Knoxville

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Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

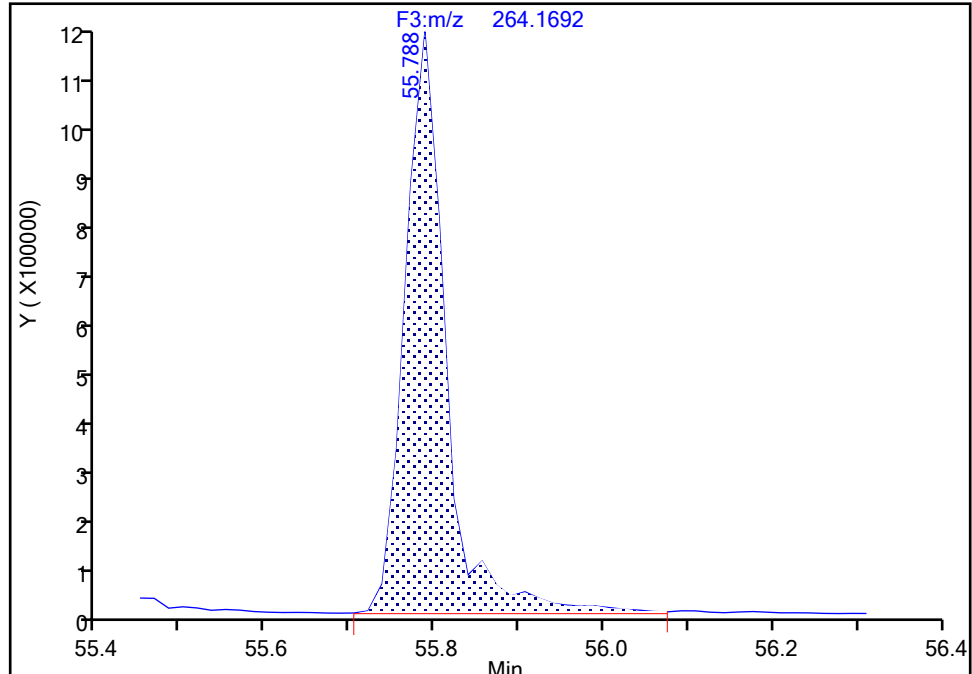
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

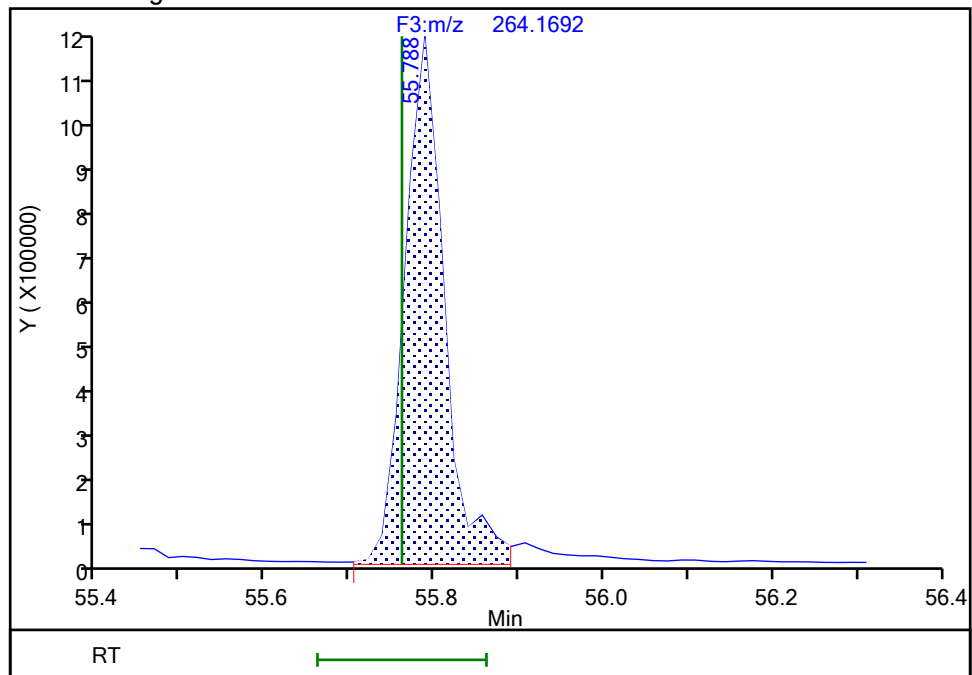
RT: 55.79
Area: 4041479
Amount: 9.178402
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 3845679
Amount: 9.139979
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:41 -04:00:00 (UTC)

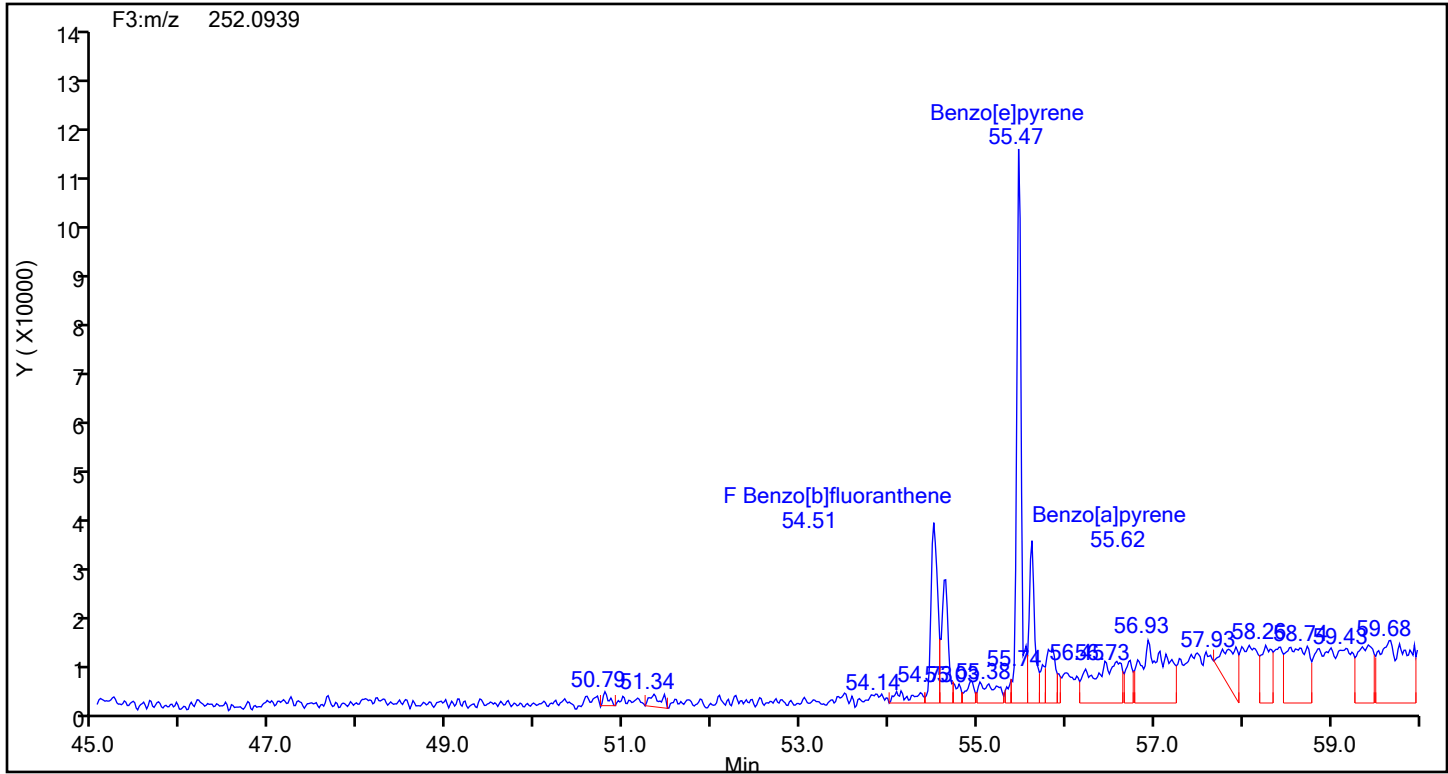
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

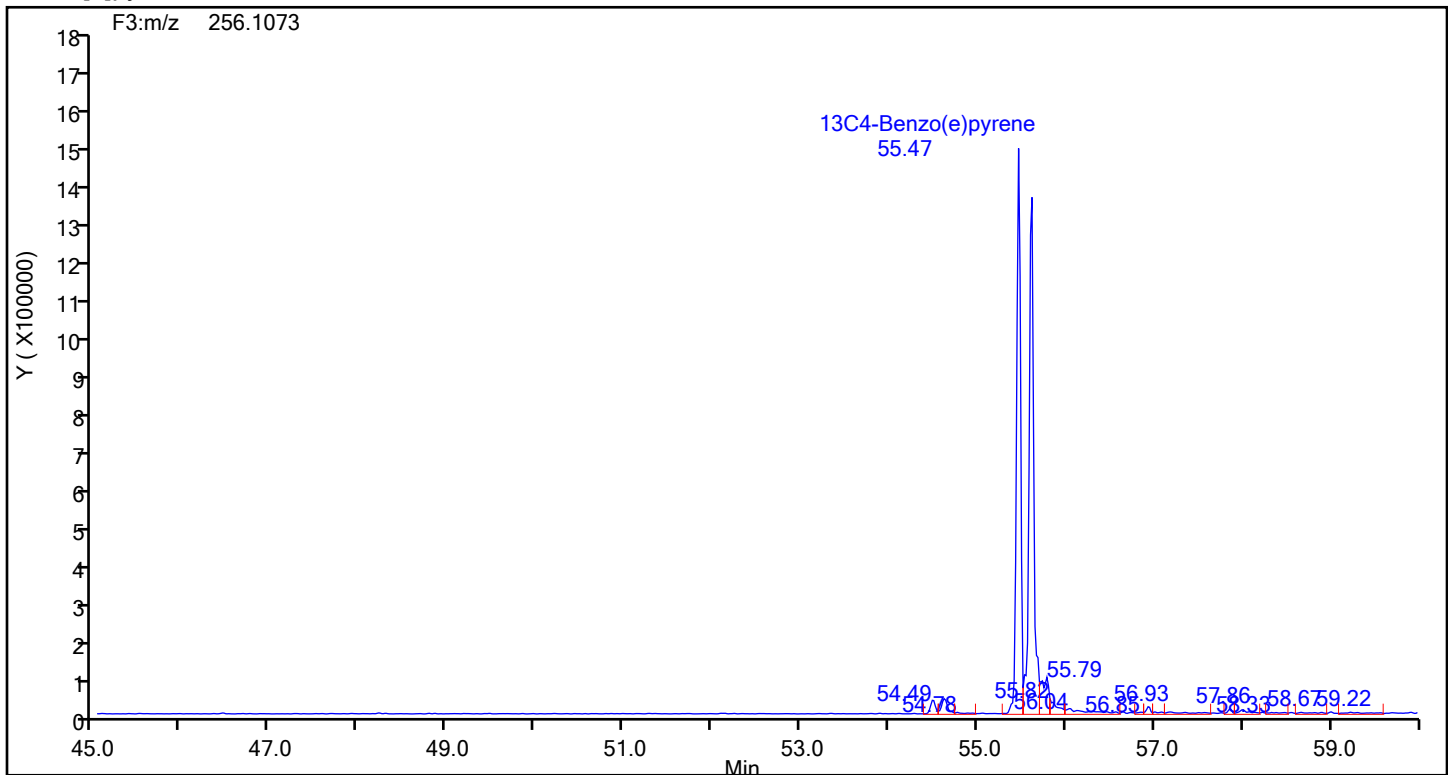
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

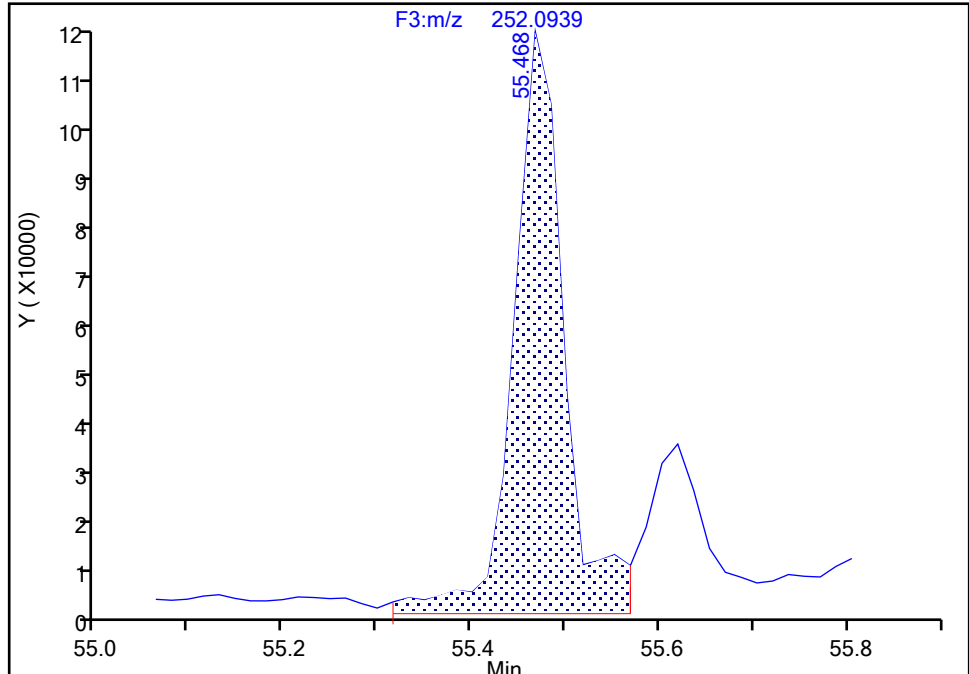
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

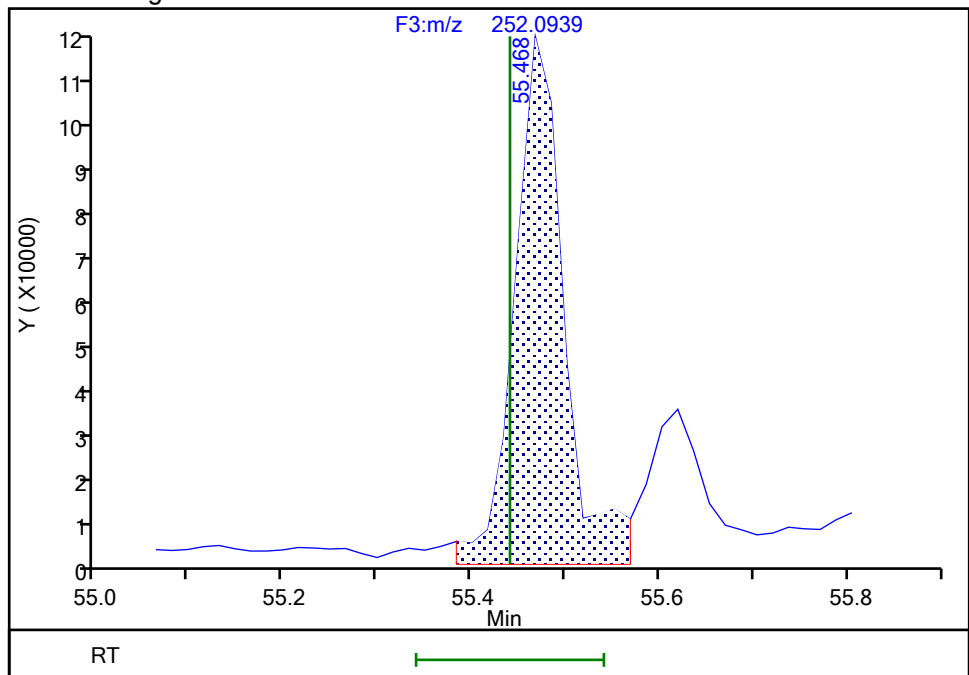
RT: 55.47
Area: 401839
Amount: 0.872635
Amount Units: pg/ul

Processing Integration Results



RT: 55.47
Area: 395819
Amount: 0.859562
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

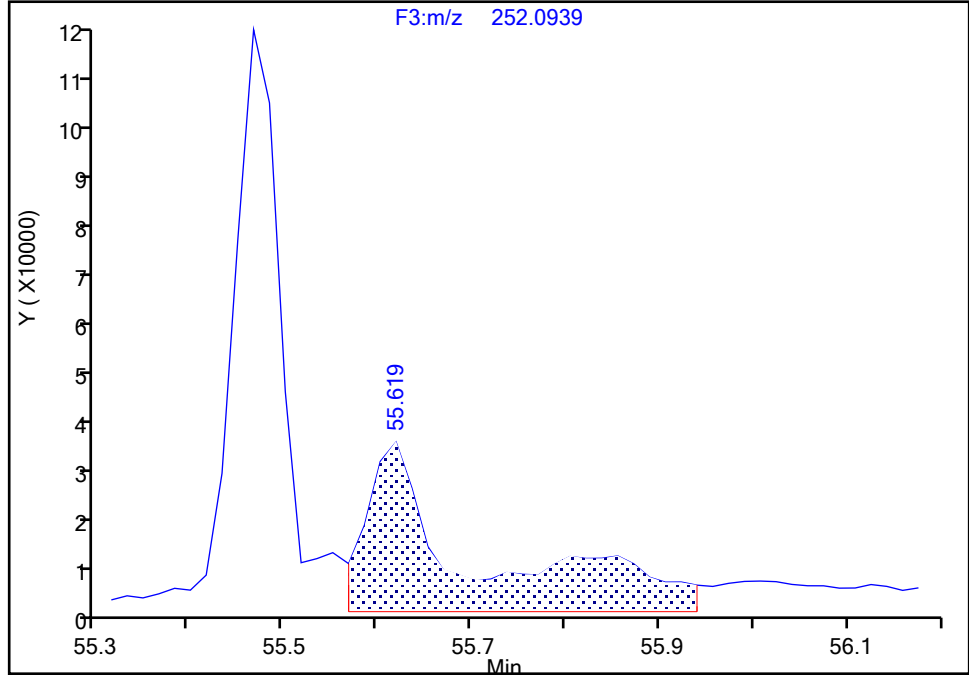
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

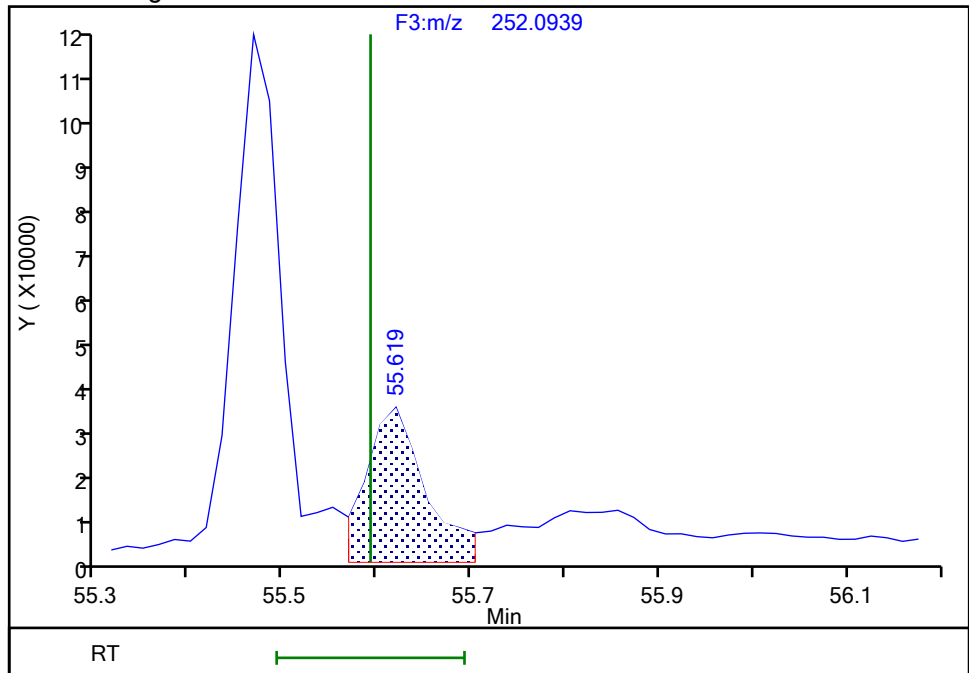
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Area: 244568
Amount: 0.400966
Amount Units: pg/ul

Processing Integration Results



RT: 55.62
Area: 141567
Amount: 0.253679
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:11 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

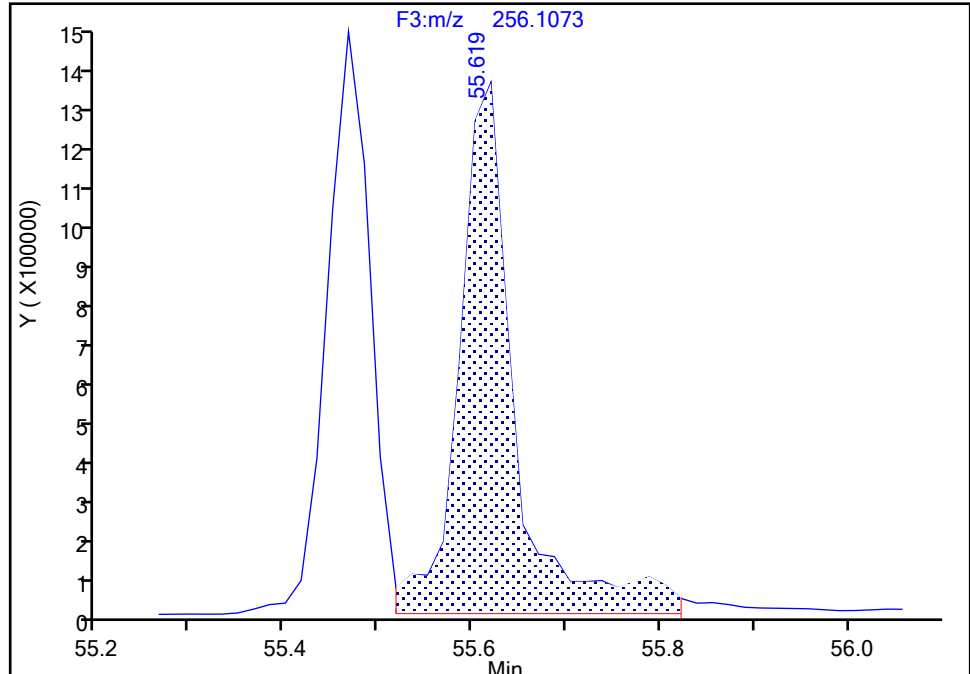
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Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C4-Benzo(a)pyrene, CAS: STL03359

Signal: 1

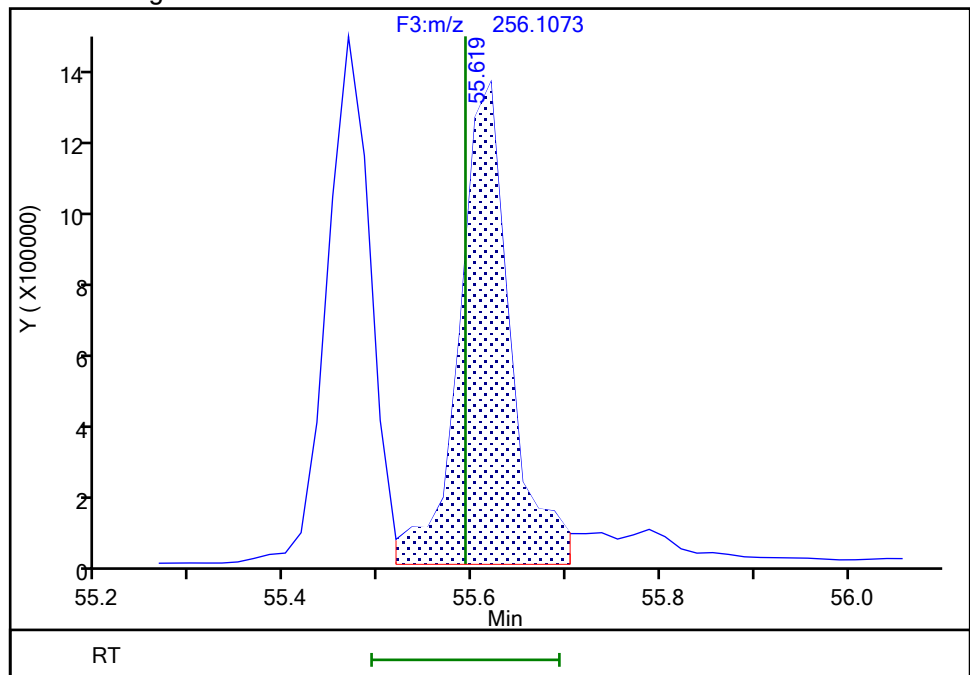
RT: 55.62
Area: 5480055
Amount: 10.008426
Amount Units: pg/ul

Processing Integration Results



RT: 55.62
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Amount: 9.156963
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:22 -04:00:00 (UTC)

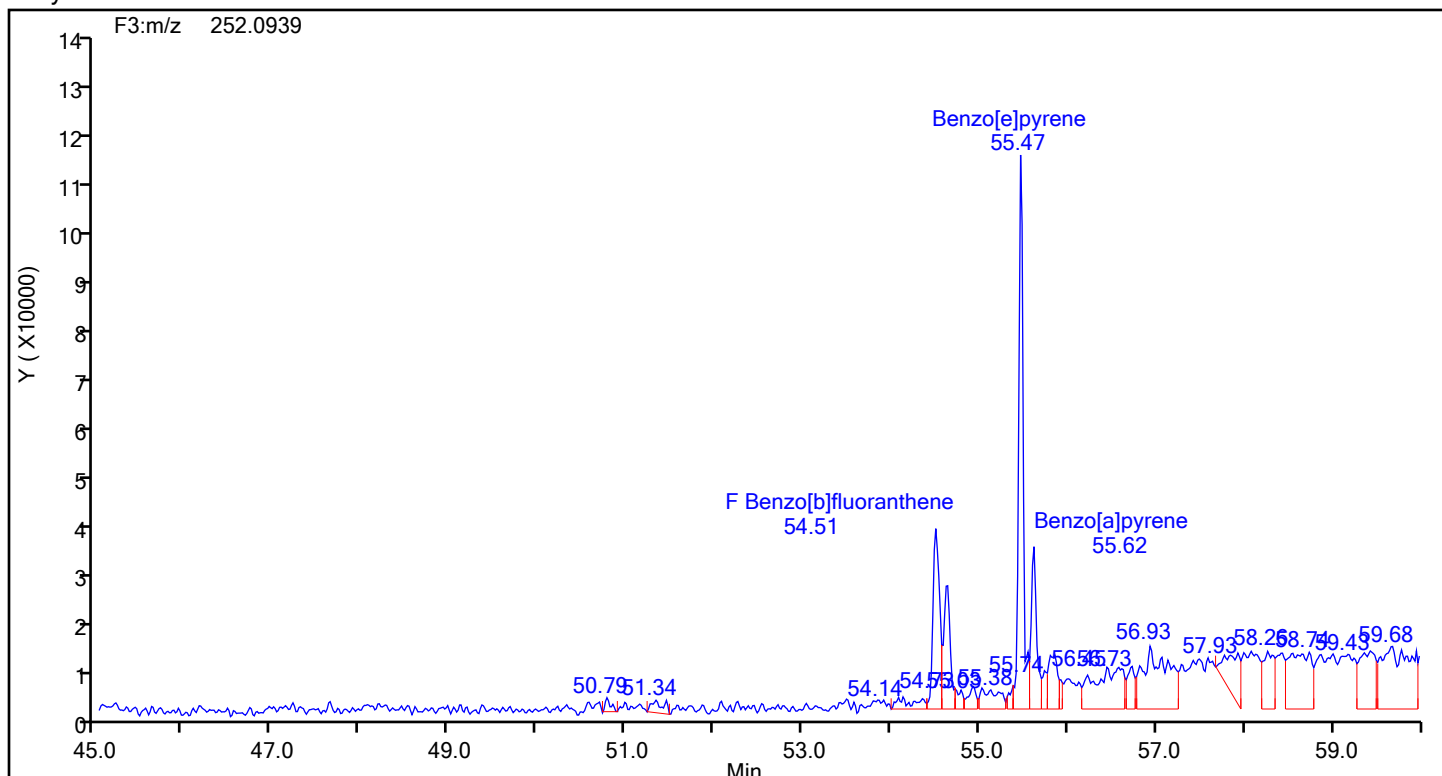
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

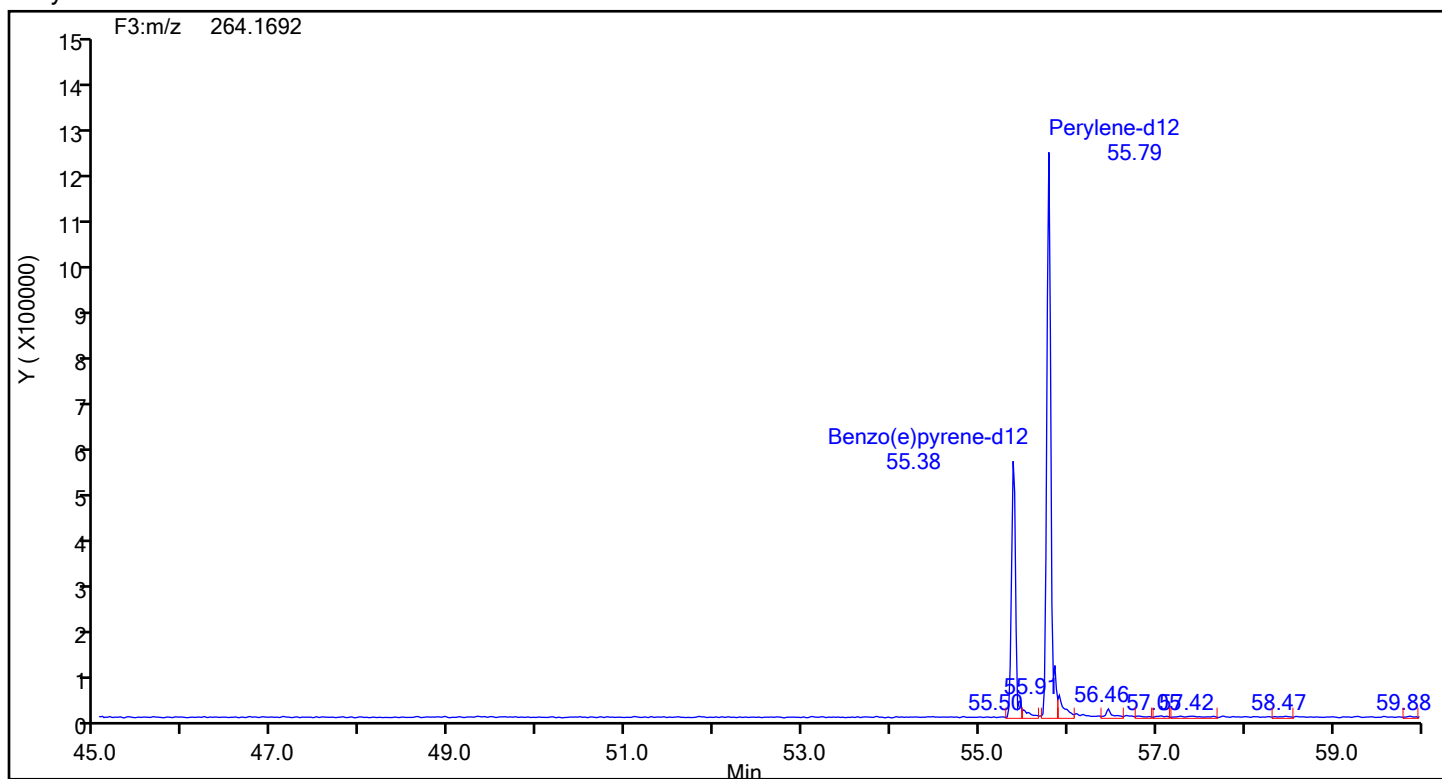
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

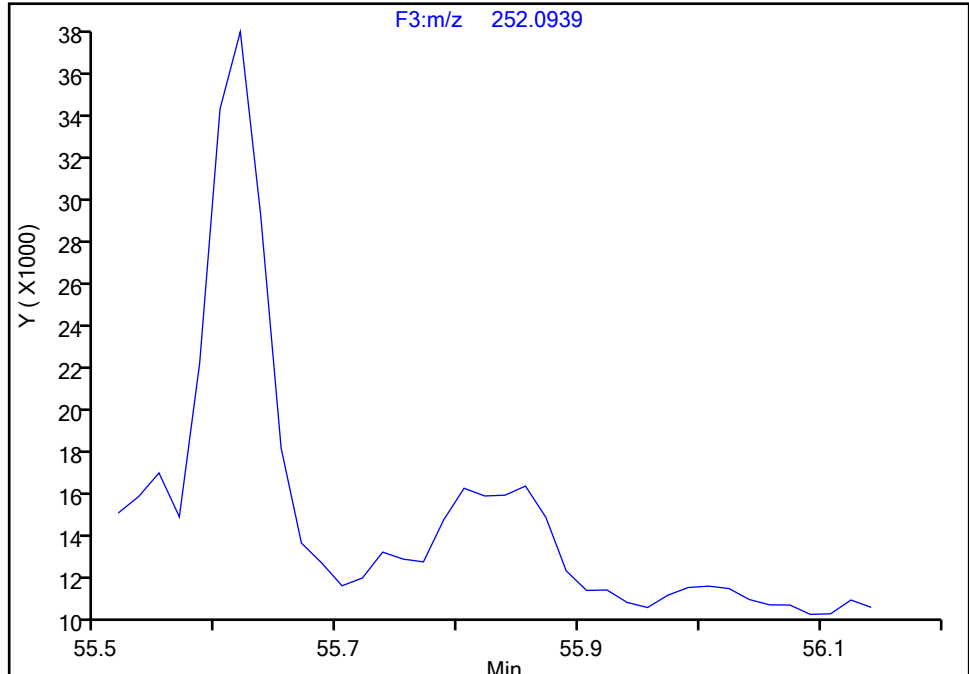
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

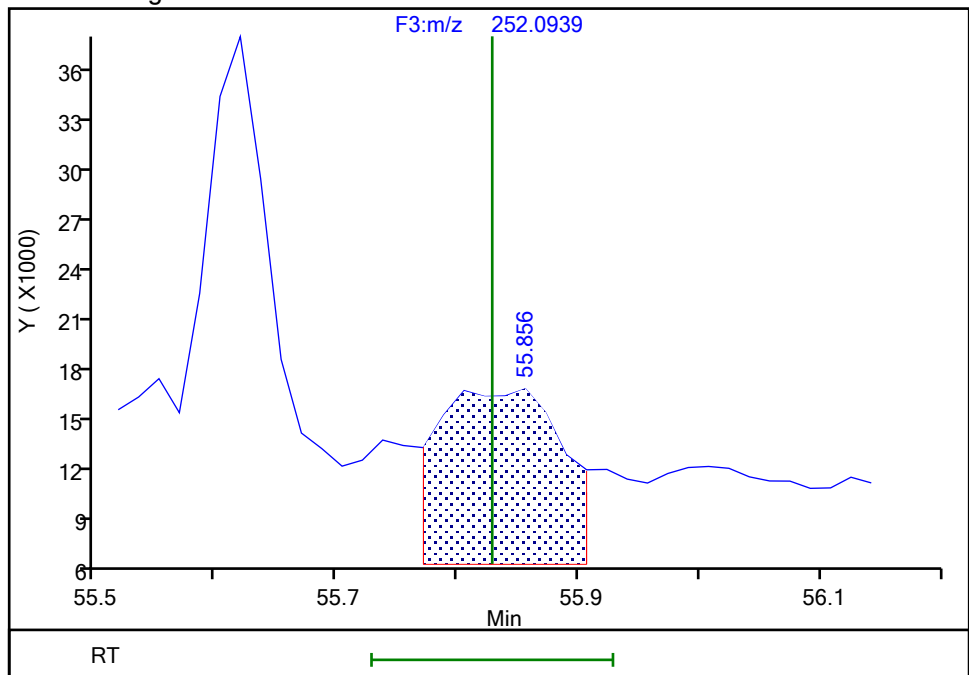
Not Detected
Expected RT: 55.83

Processing Integration Results



RT: 55.86
Area: 78553
Amount: 0.142774
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:30:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

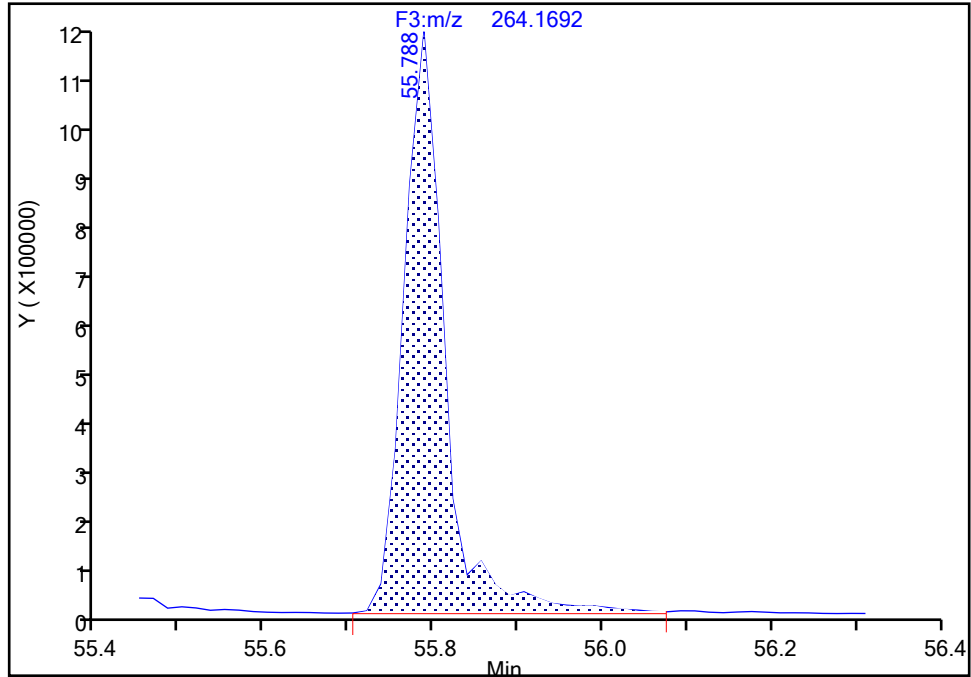
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Perylene-d12, CAS: 1520-96-3

Signal: 1

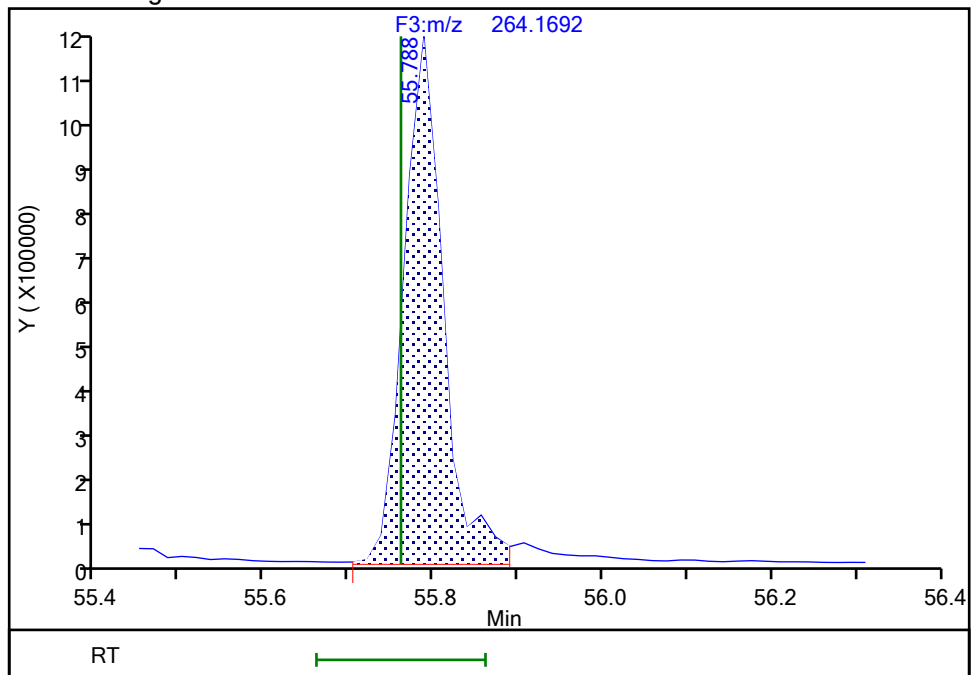
RT: 55.79
Area: 4041479
Amount: 9.178402
Amount Units: pg/ul

Processing Integration Results



RT: 55.79
Area: 3845679
Amount: 9.139979
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d

Injection Date: 20-Jul-2024 08:22:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

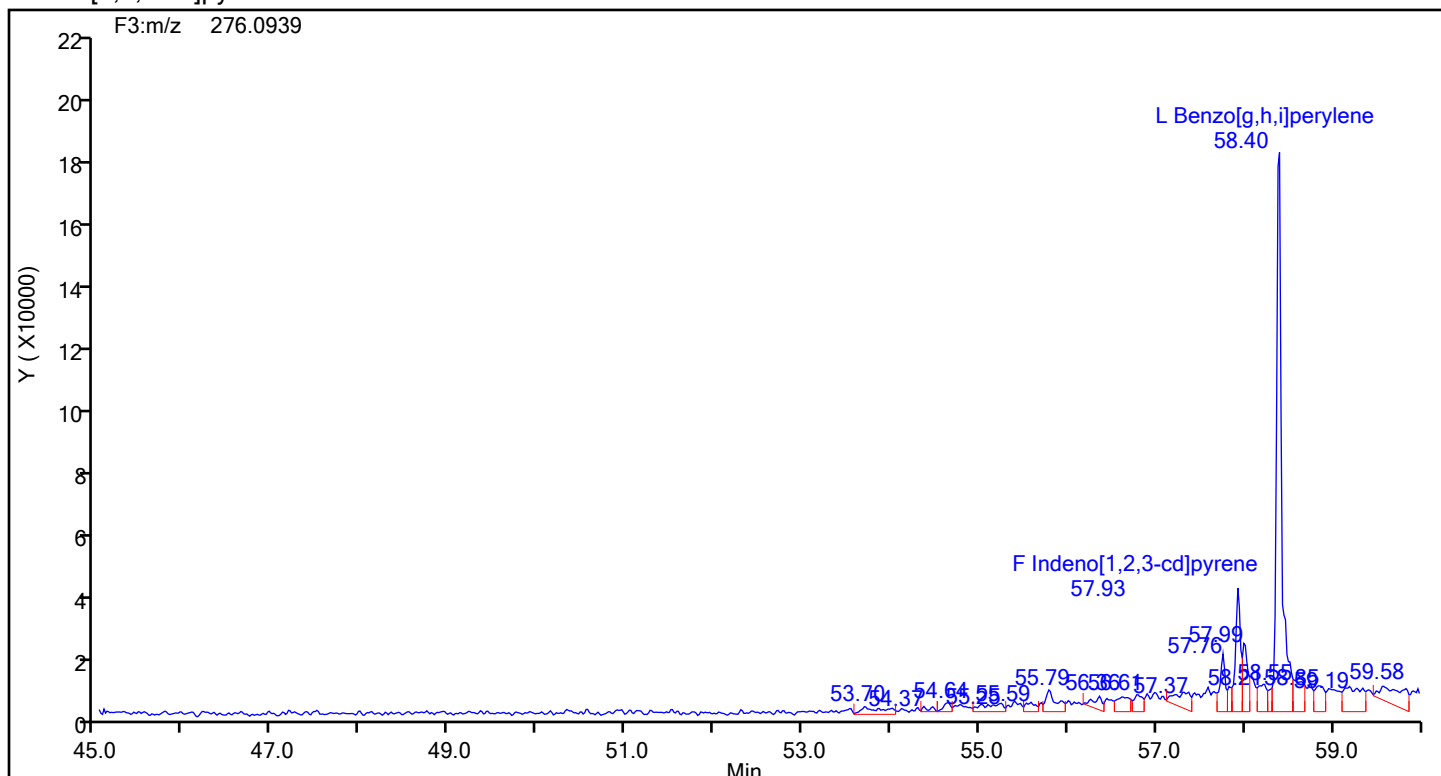
Worklist#: 88999

Sample Line#: 9

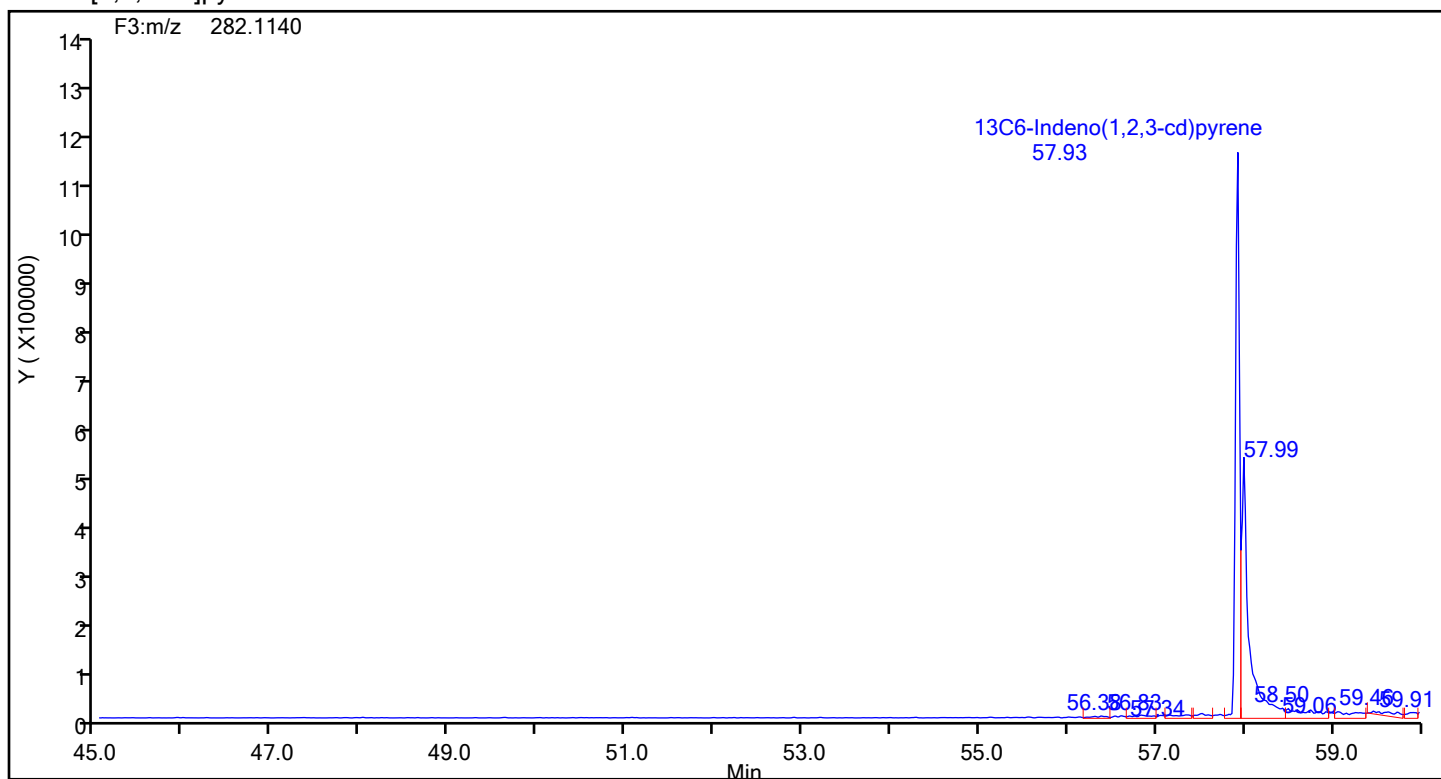
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

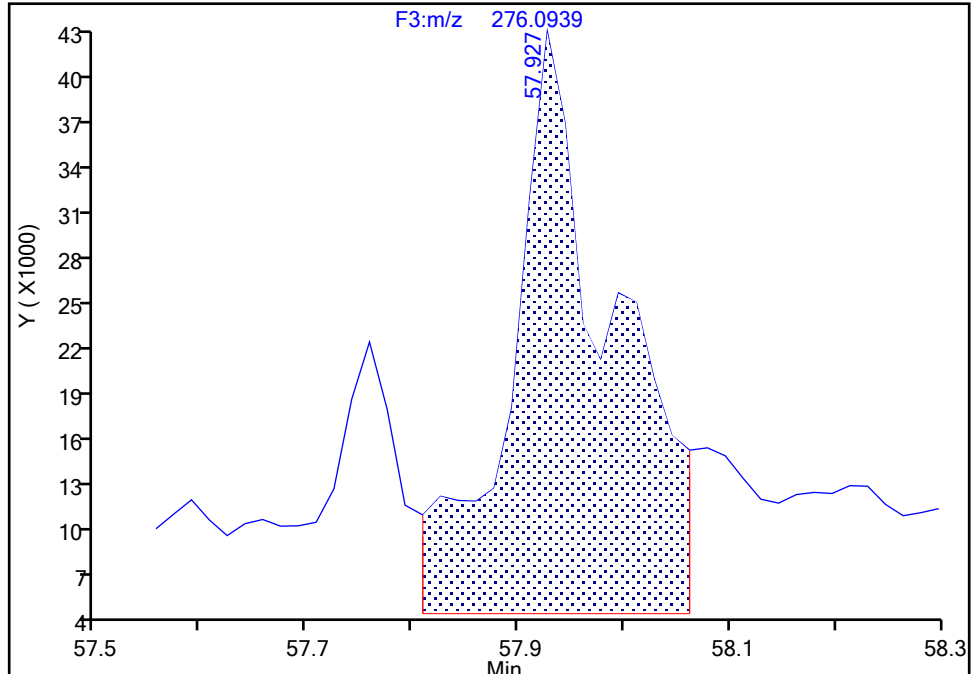
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

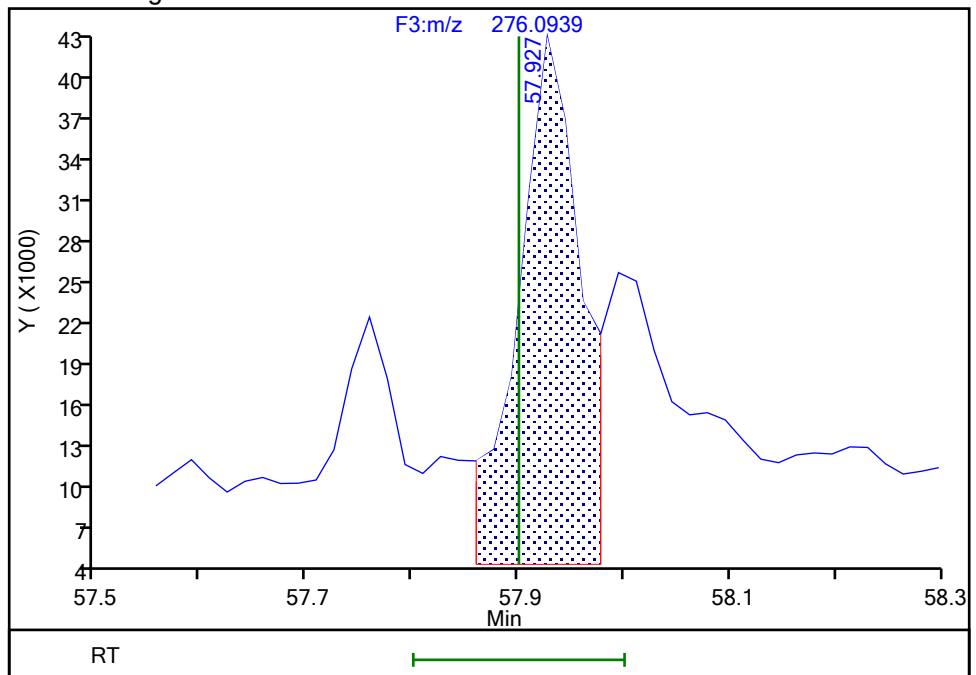
RT: 57.93
Area: 258512
Amount: 0.677285
Amount Units: pg/ul

Processing Integration Results



RT: 57.93
Area: 164757
Amount: 0.431653
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:36 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d

Injection Date: 20-Jul-2024 08:22:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED

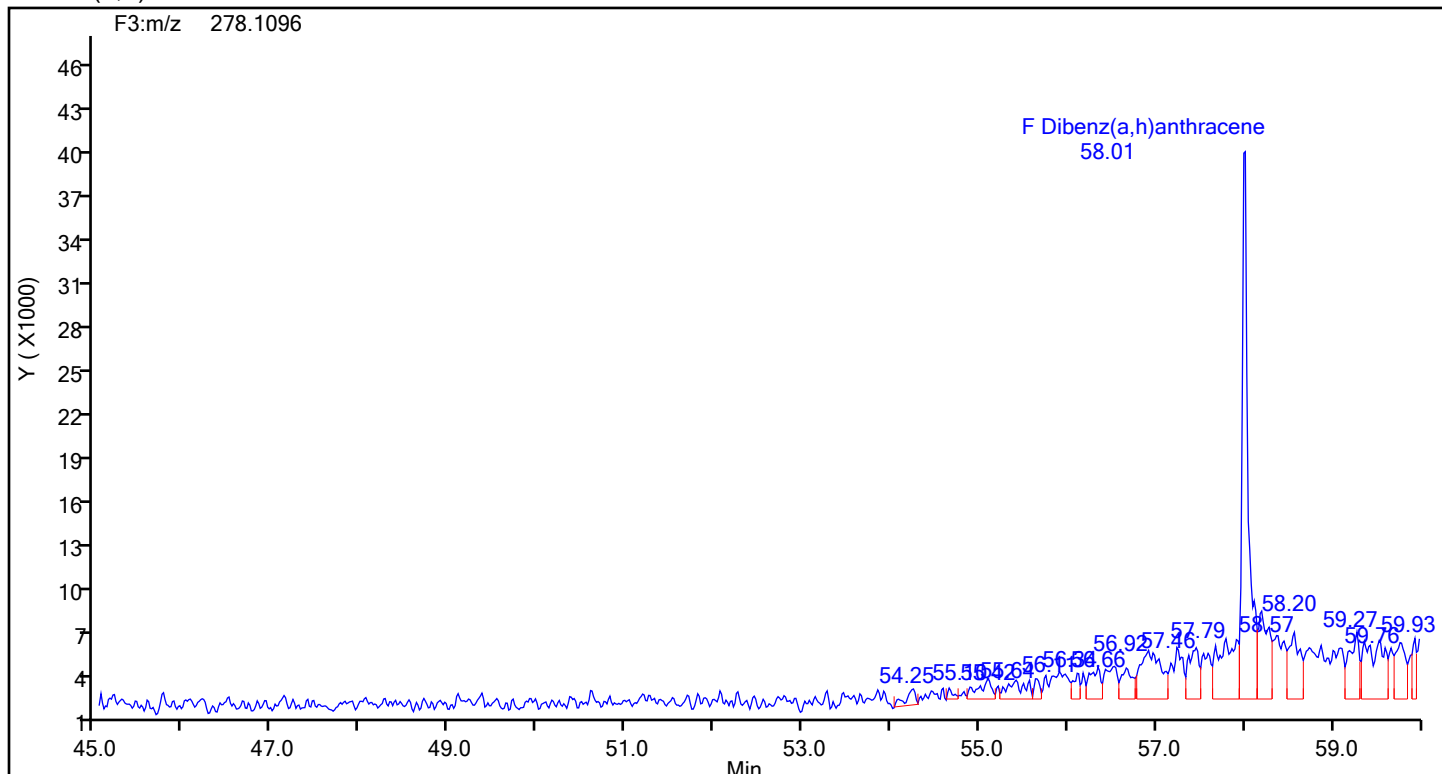
Worklist#: 88999

Sample Line#: 9

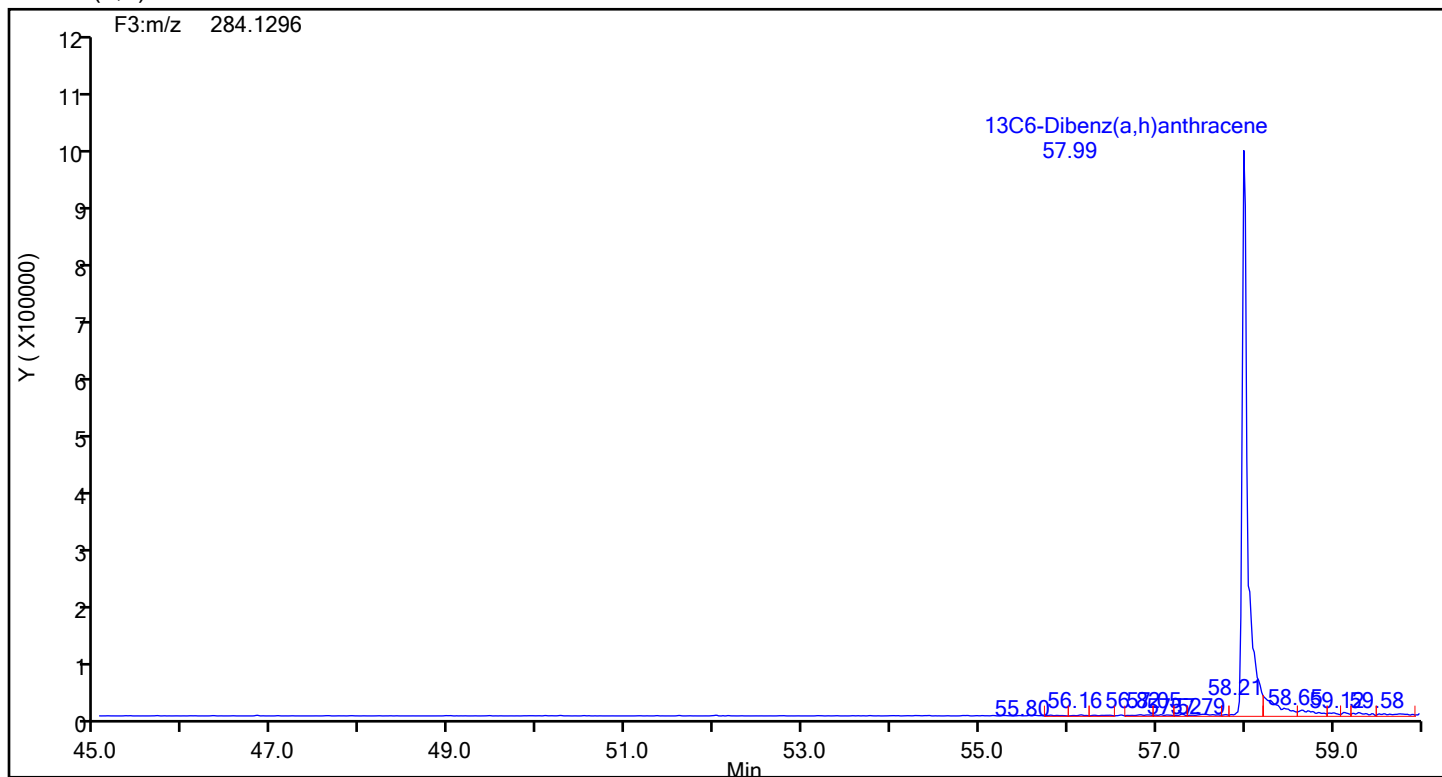
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

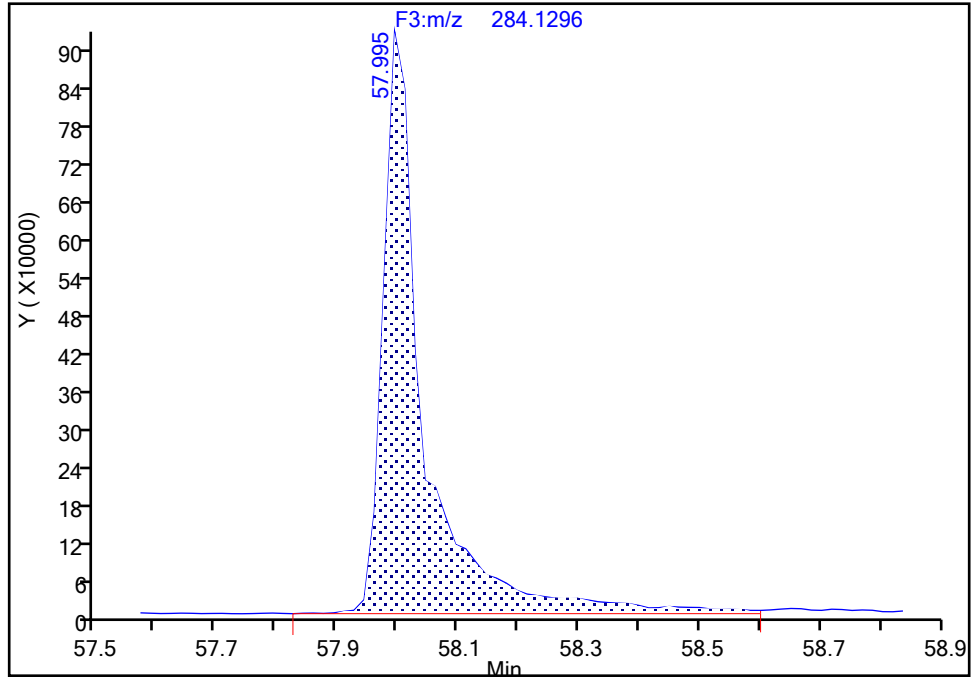
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

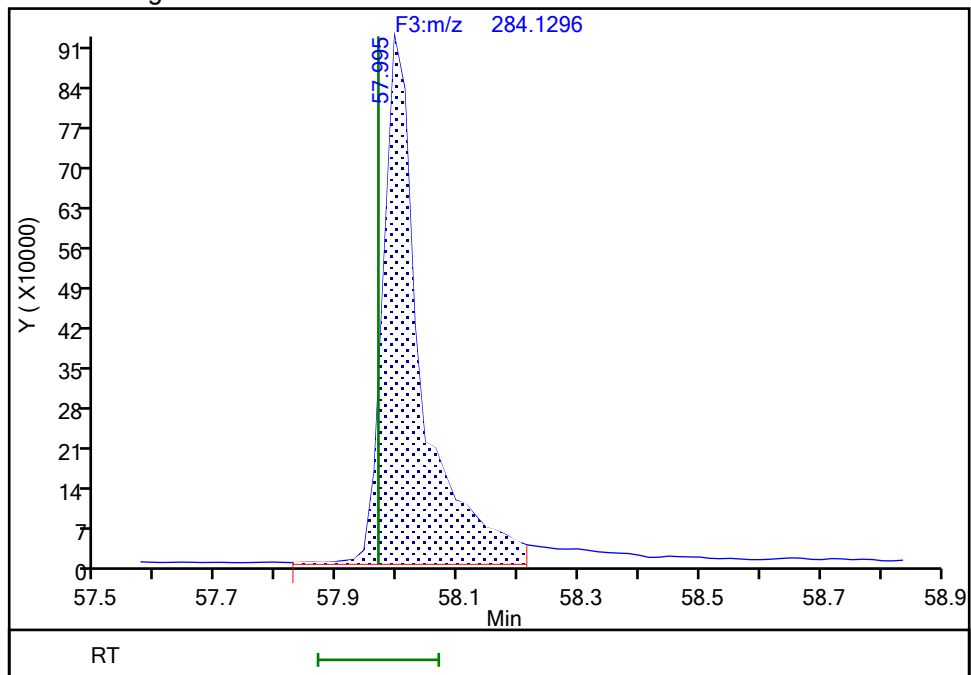
RT: 57.99
Area: 4426468
Amount: 11.352233
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 4072861
Amount: 10.931229
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:29:50 -04:00:00 (UTC)

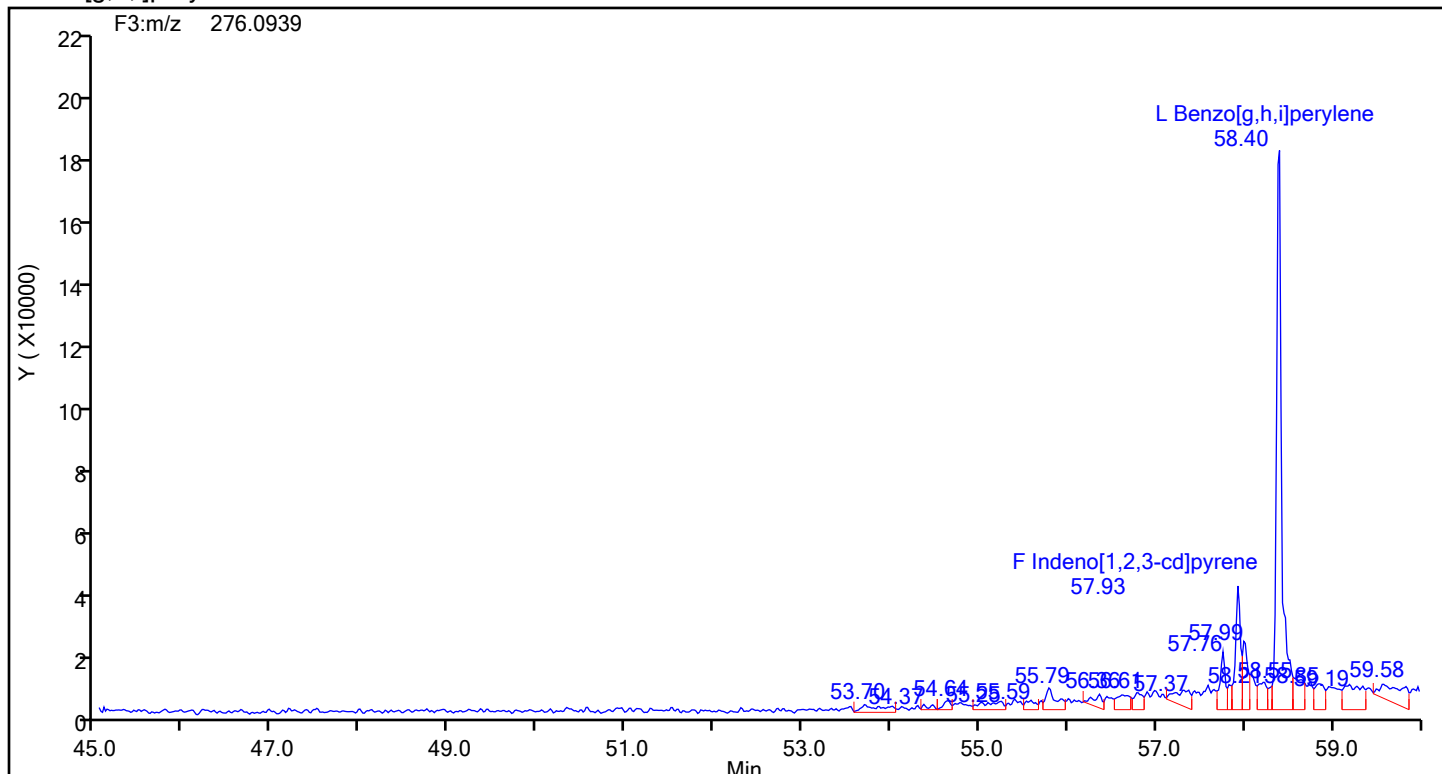
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

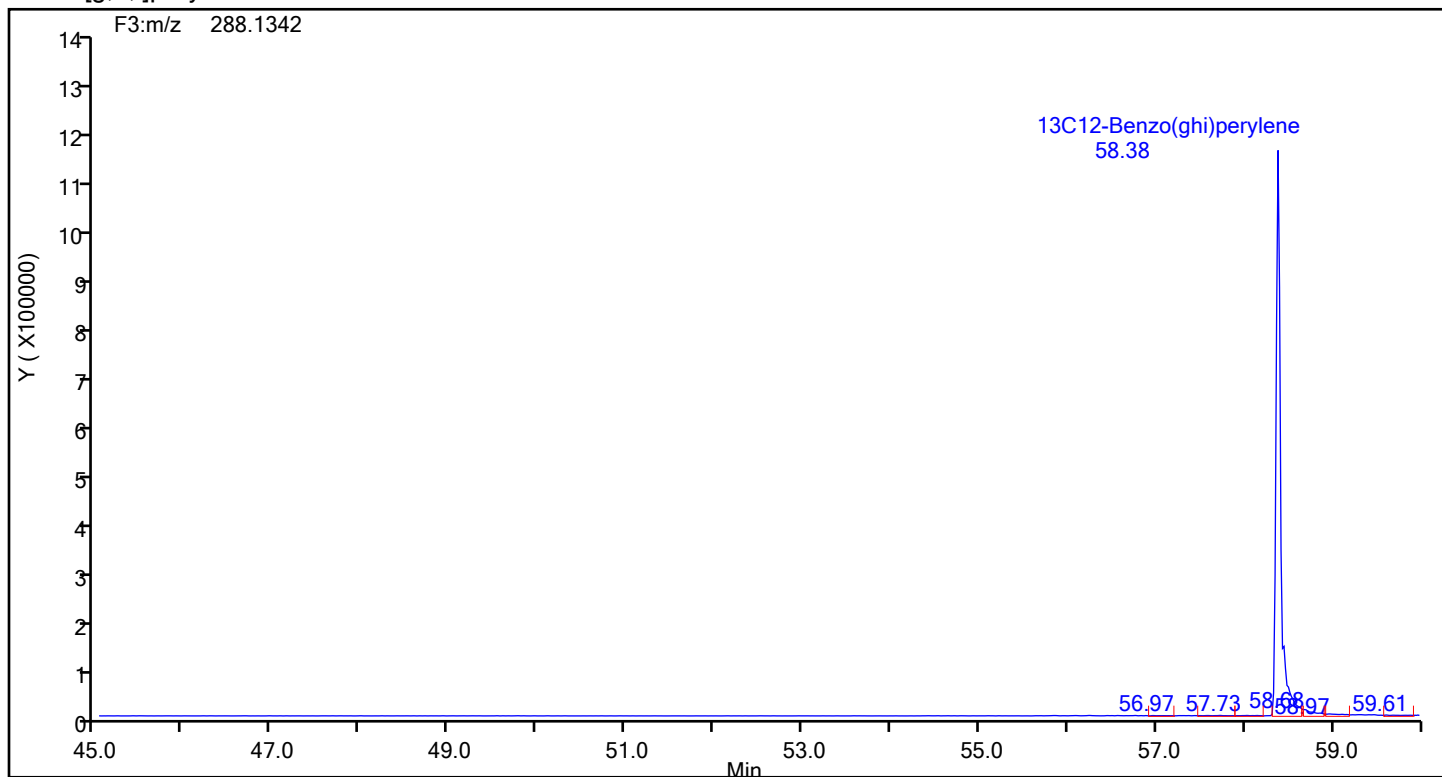
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88999 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

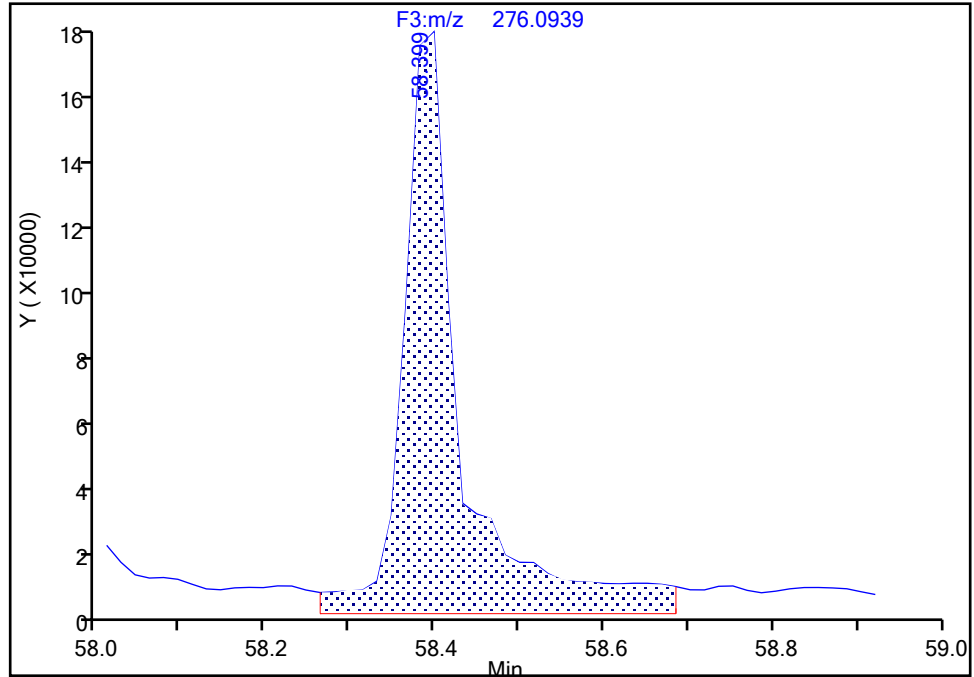
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Injection Date: 20-Jul-2024 08:22:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-7-C Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

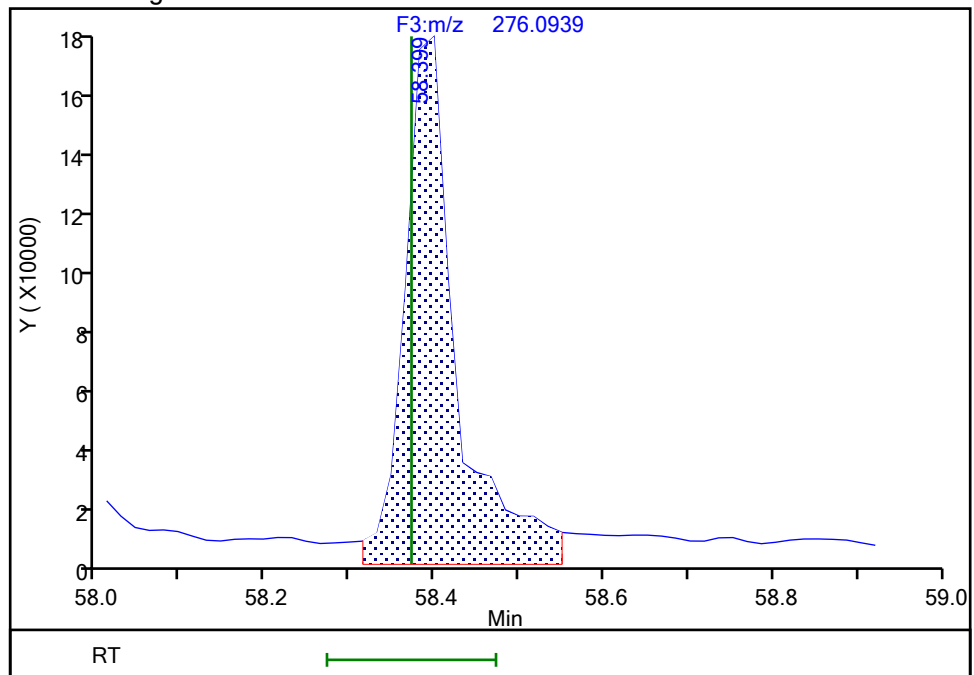
RT: 58.40
Area: 828903
Amount: 1.511467
Amount Units: pg/ul

Processing Integration Results



RT: 58.40
Area: 742251
Amount: 1.353461
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:30:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-7-c.d
Lims ID: 140-37232-A-7-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 08:22:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 11:31:38 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:31:38

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.5590	55.90
13C6-Benzo(c)fluorene	100.0	9.86	98.58
13C12-Benzo(j)fluoranthene	100.0	8.75	87.55

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN FB - COMBINED</u>	Lab Sample ID: <u>140-37232-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 16:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 09:27</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	559	J B * +	750	750	0.836
91-57-6	2-Methylnaphthalene	147	J B	750	750	0.106
208-96-8	Acenaphthylene	8.46	J B	30.0	30.0	0.0689
83-32-9	Acenaphthene	35.0	J B	300	300	0.0868
86-73-7	Fluorene	74.4	J B	300	300	0.0875
85-01-8	Phenanthrene	262	B	60.0	60.0	0.173
120-12-7	Anthracene	28.1	J B	300	300	0.157
206-44-0	Fluoranthene	28.8	J B	60.0	60.0	0.0478
129-00-0	Pyrene	29.1	J B	60.0	60.0	0.0501
56-55-3	Benzo[a]anthracene	3.08	J B	60.0	60.0	0.0307
218-01-9	Chrysene	8.32	J B	60.0	60.0	0.0310
205-99-2	Benzo[b]fluoranthene	2.23	J B	300	300	0.0162
207-08-9	Benzo[k]fluoranthene	2.29	J B	60.0	60.0	0.0150
192-97-2	Benzo[e]pyrene	2.12	J B	60.0	60.0	0.0131
50-32-8	Benzo[a]pyrene	2.28	J B	30.0	30.0	0.0128
198-55-0	Perylene	0.706	J B	30.0	30.0	0.0114
193-39-5	Indeno[1,2,3-cd]pyrene	1.83	J B	30.0	30.0	0.0122
53-70-3	Dibenz(a,h)anthracene	6.23	J B	60.0	60.0	0.00965
191-24-2	Benzo[g,h,i]perylene	6.98	J B	60.0	60.0	0.0103

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN FB - COMBINED</u>	Lab Sample ID: <u>140-37232-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 16:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/20/2024 09:27</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88999</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	18	*5-	20-130
STL03357	13C6-2-Methylnaphthalene	50		20-130
189811-56-1	13C6-Acenaphthylene	73		20-130
189811-57-2	13C6-Acenaphthene	69		20-130
STL00616	13C6-Fluorene	87		20-130
1397194-60-3	13C6-Fluoranthrene	79		20-130
1397214-90-2	13C3-Pyrene	74		20-130
917378-11-1	13C6-Benzo (a) anthracene	69		20-130
1397177-72-8	13C6-Chrysene	67		20-130
STL03358	13C6-Benzo (b) fluoranthene	82		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	81		20-130
STL03382	13C4-Benzo (e) pyrene	80		20-130
STL03359	13C4-Benzo (a) pyrene	84		20-130
1520-96-3	Perylene-d12	85		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	99		20-130
STL03360	13C6-Dibenz (a,h) anthracene	93		20-130
350820-11-0	13C12-Benzo (ghi) perylene	83		20-130
189811-60-7	13C6-Anthracene	95		20-130
1189955-53-0	13C6-Phenanthrene	79		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Lims ID: 140-37232-A-8-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 09:27:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:33:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:33:46

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:40	9426101		3.3746	1.752	1.752	0.000491	0.000491	17.52	Ma
Naphthalene	11:41	45274644		1.2893	37.3	37.3	0.0557	0.0557		Ma
D 13C6-2-Methylnaphthalene	13:50	12794986		1.6031	5.008	5.008	0.000268	0.000268	50.08	
2-Methylnaphthalene	13:50	16048134		1.2786	9.810	9.810	0.007060	0.007060		
D 13C6-Acenaphthylene	16:38	19142588		1.6520	7.270	7.270	0.000686	0.000686	72.70	
Acenaphthylene	16:38	1438944		2.3661	0.5638	0.5638	0.004593	0.004593		M
* Acenaphthene-d10	17:12	7969464		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:19	10785761		0.9792	6.911	6.911	0.000936	0.000936	69.11	
Acenaphthene	17:20	3196312		1.2697	2.334	2.334	0.005788	0.005788		
D 13C6-Fluorene	19:35	12345490		0.8898	8.704	8.704	0.001997	0.001997	87.04	
Fluorene	19:35	7677694		1.2532	4.963	4.963	0.005832	0.005832		M
D 13C6-Phenanthrene	24:54	18329759		0.5724	7.882	7.882	0.000809	0.000809	78.82	
Phenanthrene	24:55	35370463		1.1044	17.5	17.5	0.0116	0.0116		
\$ Anthracin-d10	25:08	1526439		0.4257	0.8826	0.8826	0.000617	0.000617	88.26	
D 13C6-Anthracene	25:14	17401108		0.4523	9.469	9.469	0.001023	0.001023	94.69	
Anthracene	25:15	4433254		1.3586	1.875	1.875	0.0105	0.0105		
D 13C6-Fluoranthrene	33:37	38706077		1.1994	7.944	7.944	0.001346	0.001346	79.44	
Fluoranthene	33:38	8551694		1.1513	1.919	1.919	0.003190	0.003190		
* Pyrene-d10	35:10	20312941		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:19	40792224		1.3512	7.431	7.431	0.001293	0.001293	74.31	
Pyrene	35:19	8443080		1.0652	1.943	1.943	0.003342	0.003342		M
\$ 13C6-Benzo(c)fluorene	39:01	20118653		0.5136	9.642	9.642	0.000805	0.000805	96.42	
D 13C6-Benzo(a)anthracene	45:50	35483658		1.5189	6.873	6.873	0.000863	0.000863	68.73	
Benzo[a]anthracene	45:50	710350		0.9739	0.2056	0.2056	0.002047	0.002047		
D 13C6-Chrysene	46:07	37067018		1.6287	6.696	6.696	0.000805	0.000805	66.96	
Chrysene	46:07	2017401		0.9815	0.5545	0.5545	0.002066	0.002066		
D 13C6-Benzo(b)fluoranthene	54:29	40647516		1.4621	8.180	8.180	0.000254	0.000254	81.80	
Benzo[b]fluoranthene	54:29	679342		1.1249	0.1486	0.1486	0.001083	0.001083		
\$ 13C12-Benzo(j)fluoranthene	54:31	37800697		1.3558	8.203	8.203	0.000832	0.000832	82.03	
D 13C6-Benzo(k)fluoranthene	54:36	48035899		1.7507	8.073	8.073	0.000212	0.000212	80.73	M
Benzo[k]fluoranthene	54:37	825675		1.1271	0.1525	0.1525	0.001003	0.001003		
* Benzo(e)pyrene-d12	55:21	16994068		5.7E+04	5.000	5.000				
Benzo[e]pyrene	55:27	628326		1.0013	0.1414	0.1414	0.000874	0.000874		M
D 13C4-Benzo(e)pyrene	55:27	44391914		1.6368	7.979	7.979	0.000424	0.000424	79.79	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:36	44390692		1.5508	8.422	8.422	0.000447	0.000447	84.22	
Benzo[a]pyrene	55:36	751499		1.1130	0.1521	0.1521	0.000853	0.000853		
D Perylene-d12	55:46	34306628		1.1917	8.470	8.470	0.000906	0.000906	84.70	
Perylene	55:50	230994		1.4307	0.0471	0.0471	0.000757	0.000757		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	34355165		1.0218	9.892	9.892	0.000679	0.000679	98.92	M
Indeno[1,2,3-cd]pyrene	57:54	472281		1.1249	0.1222	0.1222	0.000814	0.000814		
D 13C6-Dibenz(a,h)anthracene	57:58	33402285		1.0553	9.313	9.313	0.000514	0.000514	93.13	M
Dibenz(a,h)anthracene	57:59	1568856		1.1314	0.4151	0.4151	0.000644	0.000644		M
D 13C12-Benzo(ghi)perylene	58:21	35954669		1.2749	8.298	8.298	0.000115	0.000115	82.98	M
Benzo[g,h,i]perylene	58:22	2148359		1.2838	0.4654	0.4654	0.000689	0.000689		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Lims ID: 140-37232-A-8-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 09:27:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 11:33:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 11:33:46

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											Ma
134.0828	11:40	11:40	16	0.678	9426101	2871863	381	952	7538		M
Naphthalene											Ma
128.0626	11:41	11:41	16	1.001	45274644	14714321	8253	20632	1783		M
13C6-2-Methylnaphthalene											
148.0984	13:50	13:46	4	0.805	12794986	6204153	99	247	62668		
2-Methylnaphthalene											
142.0783	13:50	13:47	4	1.000	16048134	7563863	2240	5600	3377		
13C6-Acenaphthylene											
158.0828	16:38	16:38	1	0.967	19142588	6931537	261	652	26558		
Acenaphthylene											M
152.0626	16:38	16:38	1	1.000	1438944	549854	1683	4207	327		M
Acenaphthene-d10											
164.1404	17:12	17:12	0		7969464	2875144	67	167	42913		
13C6-Acenaphthene											
160.0984	17:19	17:19	0	1.007	10785761	3871215	211	527	18347		
Acenaphthene											
154.0783	17:20	17:20	0	1.001	3196312	1134224	1138	2845	997		
13C6-Fluorene											
172.0984	19:35	19:35	-1	1.138	12345490	3724181	409	1022	9106		
Fluorene											M
166.0783	19:35	19:35	-1	1.000	7677694	2275382	1089	2722	2089		M
13C6-Phenanthrene											
184.0984	24:54	24:55	-2	0.708	18329759	4263931	139	347	30676		
Phenanthrene											
178.0783	24:55	24:57	-2	1.000	35370463	8335658	2179	5447	3825		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:08	25:08	-2	0.714	1526439	345101	79	197	4368		
13C6-Anthracene											
184.0984	25:14	25:15	-2	0.717	17401108	3821839	139	347	27495		
Anthracene											
178.0783	25:15	25:17	-2	1.000	4433254	953174	2179	5447	437		
13C6-Fluoranthrene											
208.0984	33:37	33:38	-3	0.956	38706077	7447852	484	1210	15388		
Fluoranthene											
202.0783	33:38	33:37	-2	1.000	8551694	1646633	1094	2735	1505		
Pyrene-d10											
212.1404	35:10	35:12	-2		20312941	3748656	137	342	27362		
13C3-Pyrene											
205.0883	35:19	35:19	-2	1.004	40792224	7681713	524	1310	14660		
Pyrene											
202.0783	35:19	35:19	-2	1.000	8443080	1560512	1094	2735	1426		M
13C6-Benzo(c)fluorene											
222.1134	39:01	39:04	-2	0.705	20118653	3519133	124	310	28380		M
13C6-Benzo(a)anthracene											
234.1140	45:50	45:49	0	1.303	35483658	6018315	537	1342	11207		
Benzo[a]anthracene											
228.0939	45:50	45:52	-1	1.000	710350	123866	480	1200	258		
13C6-Chrysene											
234.1140	46:07	46:09	0	1.311	37067018	5917653	537	1342	11020		
Chrysene											
228.0939	46:07	46:07	-1	1.000	2017401	299147	480	1200	623		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:28	0	0.984	40647516	10632528	152	380	69951		
Benzo[b]fluoranthene											
252.0939	54:29	54:29	0	1.000	679342	156087	518	1295	301		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:33	0	0.985	37800697	9737692	462	1155	21077		
13C6-Benzo(k)fluoranthene											
258.1140	54:36	54:36	0	0.986	48035899	11456592	152	380	75372		M
Benzo[k]fluoranthene											
252.0939	54:37	54:39	0	1.000	825675	190407	518	1295	368		
Benzo(e)pyrene-d12											
264.1692	55:21	55:23	-1		16994068	5119881	442	1105	11583		
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	628326	174391	518	1295	337		M
13C4-Benzo(e)pyrene											
256.1073	55:27	55:26	0	1.002	44391914	14789917	284	710	52077		M
13C4-Benzo(a)pyrene											
256.1073	55:36	55:38	0	1.004	44390692	13638732	284	710	48024		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:36	55:38	0	1.000	751499	209563	518	1295	405		
Perylene-d12											
264.1692	55:46	55:48	0	1.007	34306628	11953782	442	1105	27045		
Perylene											
252.0939	55:50	55:50	0	1.001	230994	53030	518	1295	102		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:54	0	1.046	34355165	10834736	284	710	38150		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:54	57:56	0	1.000	472281	155511	397	992	392		
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	0	1.047	33402285	8749309	222	555	39411		M
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	1	1.000	1568856	411792	255	637	1615		M
13C12-Benzo(ghi)perylene											
288.1342	58:21	58:21	0	1.054	35954669	11221547	60	150	187026		M
Benzo[g,h,i]perylene											
276.0939	58:22	58:22	0	1.000	2148359	626836	397	992	1579		M

QC Flag Legend

Processing Flags

Review Flags

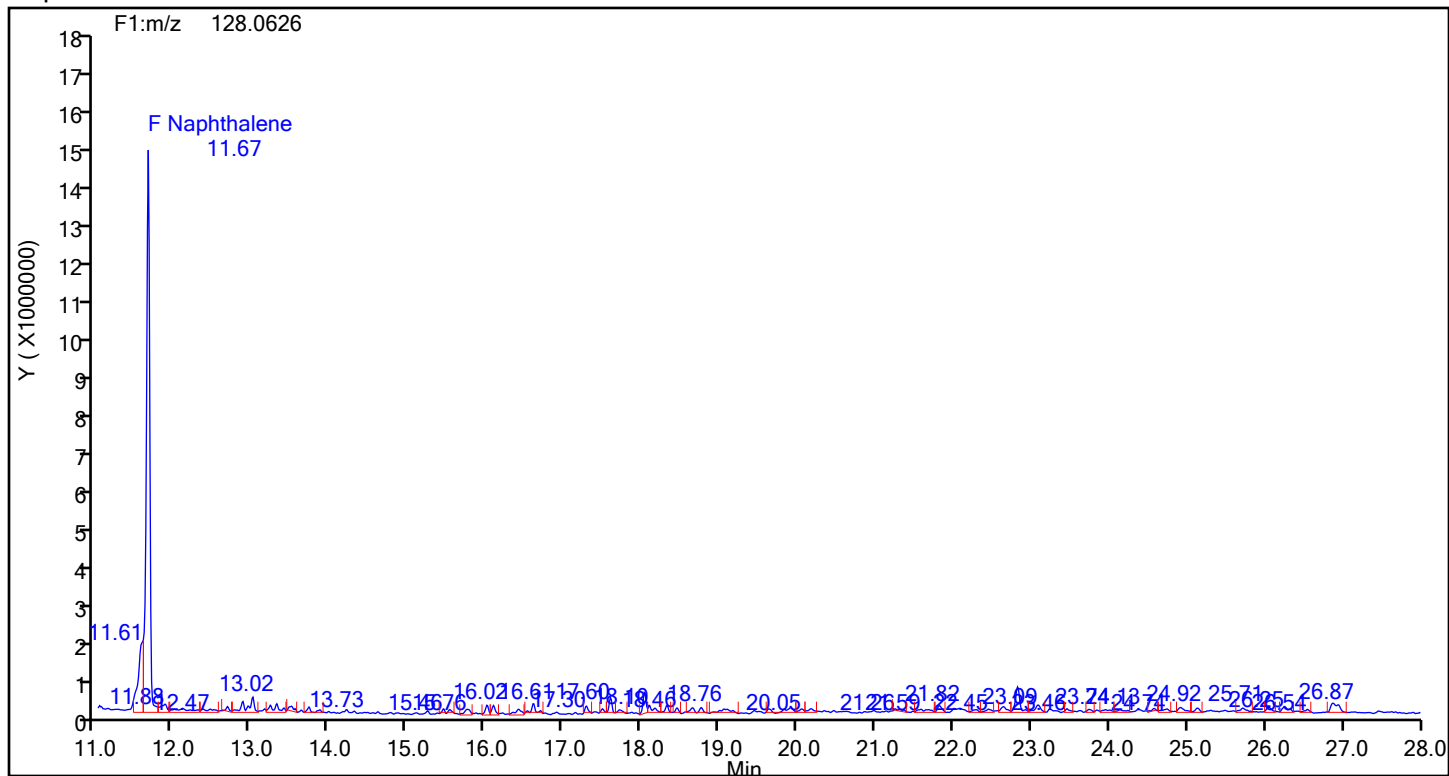
M - Manually Integrated

a - User Assigned ID

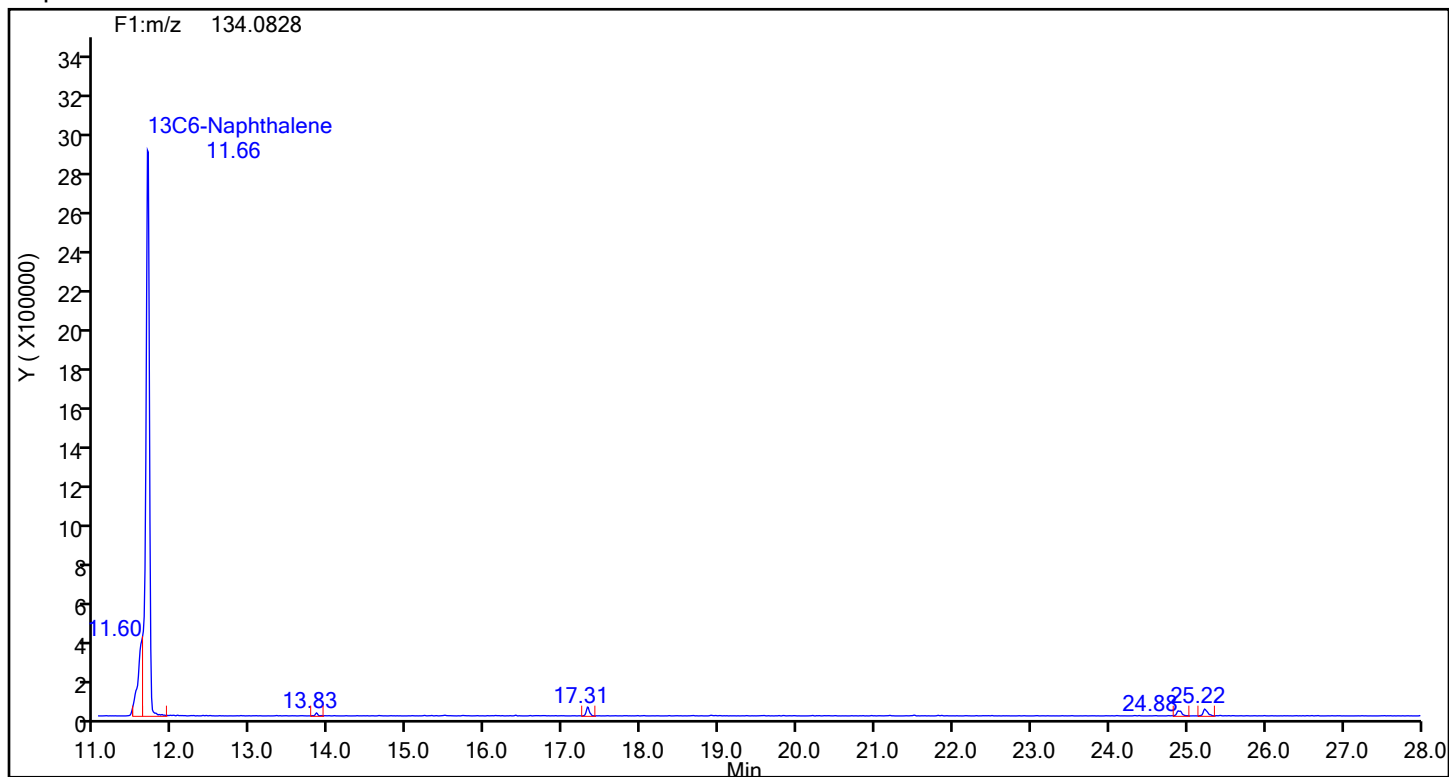
Eurofins Knoxville

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Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

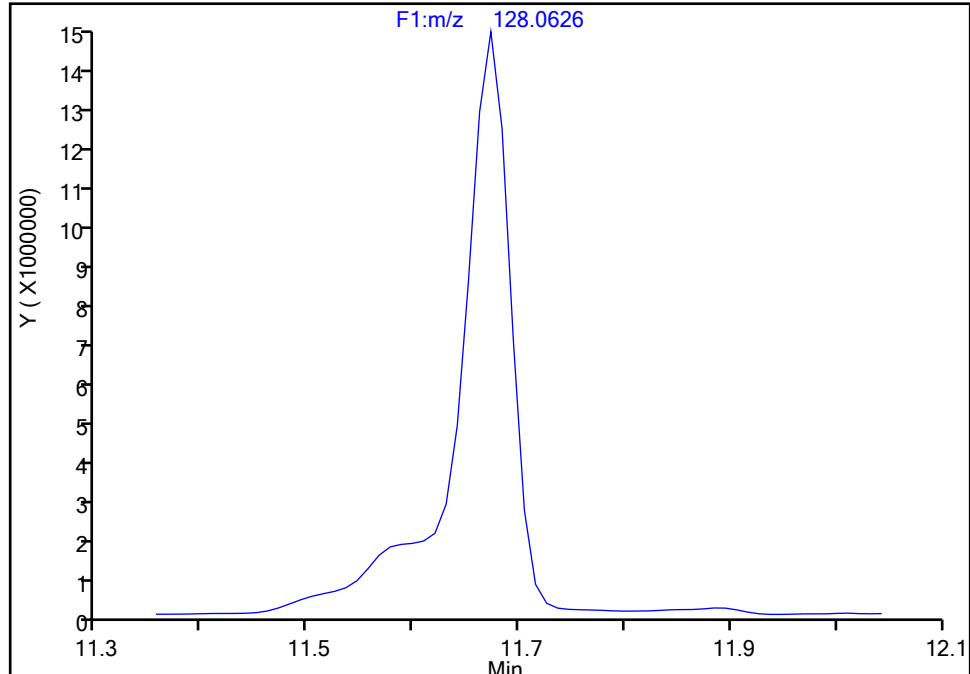
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

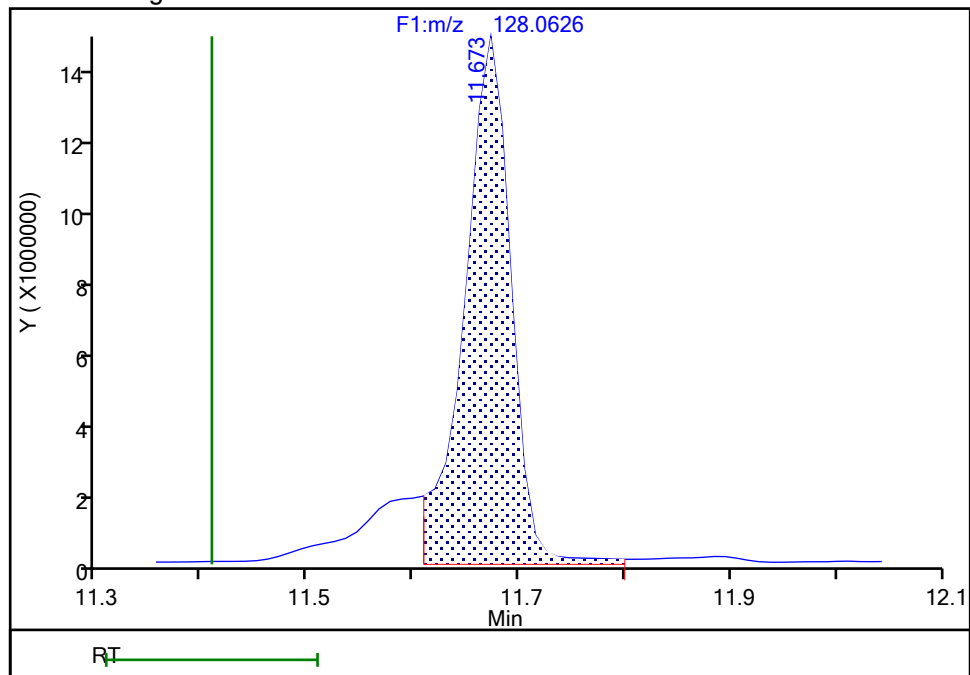
Not Detected
Expected RT: 11.41

Processing Integration Results



RT: 11.67
Area: 45274644
Amount: 37.254823
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

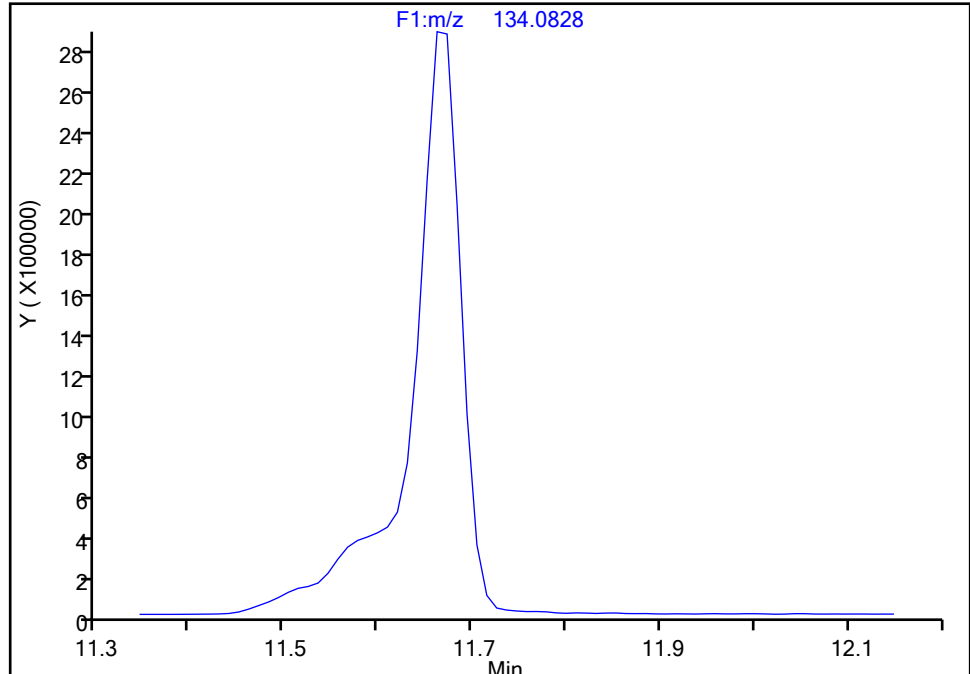
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Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

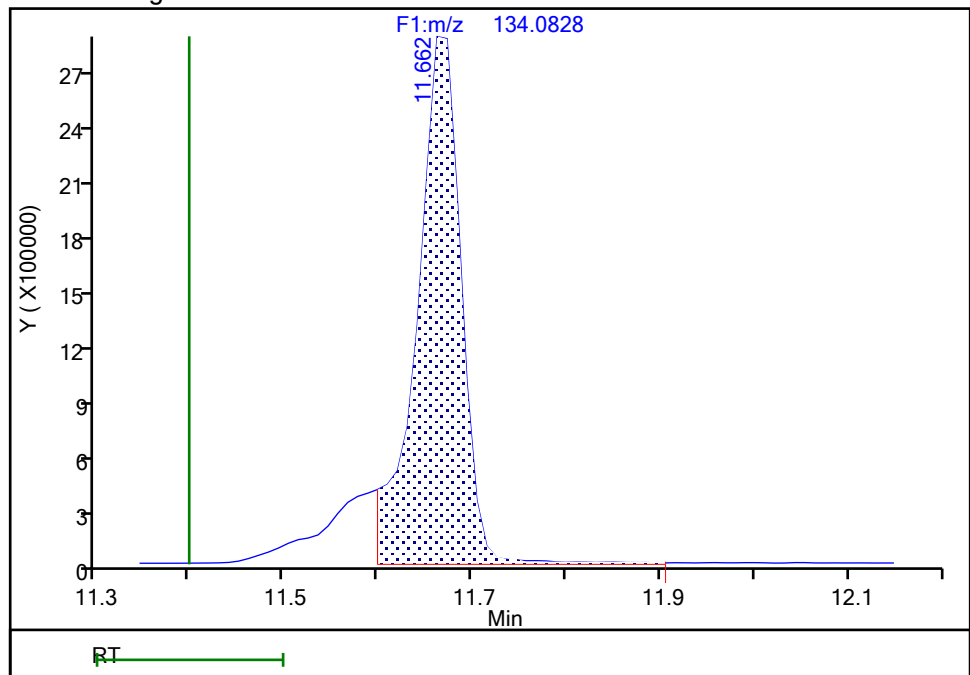
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.66
Area: 9426101
Amount: 1.752487
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:55 -04:00:00 (UTC)

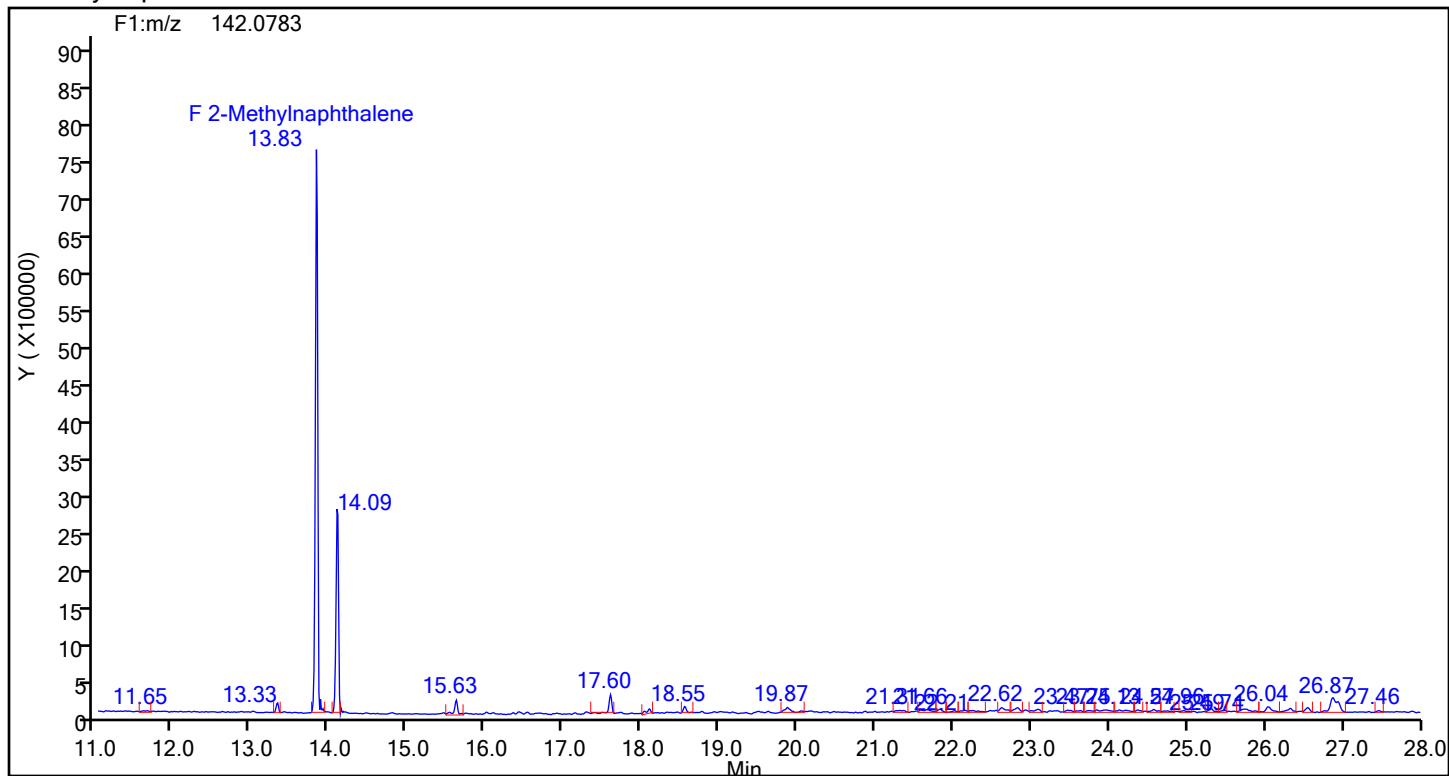
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

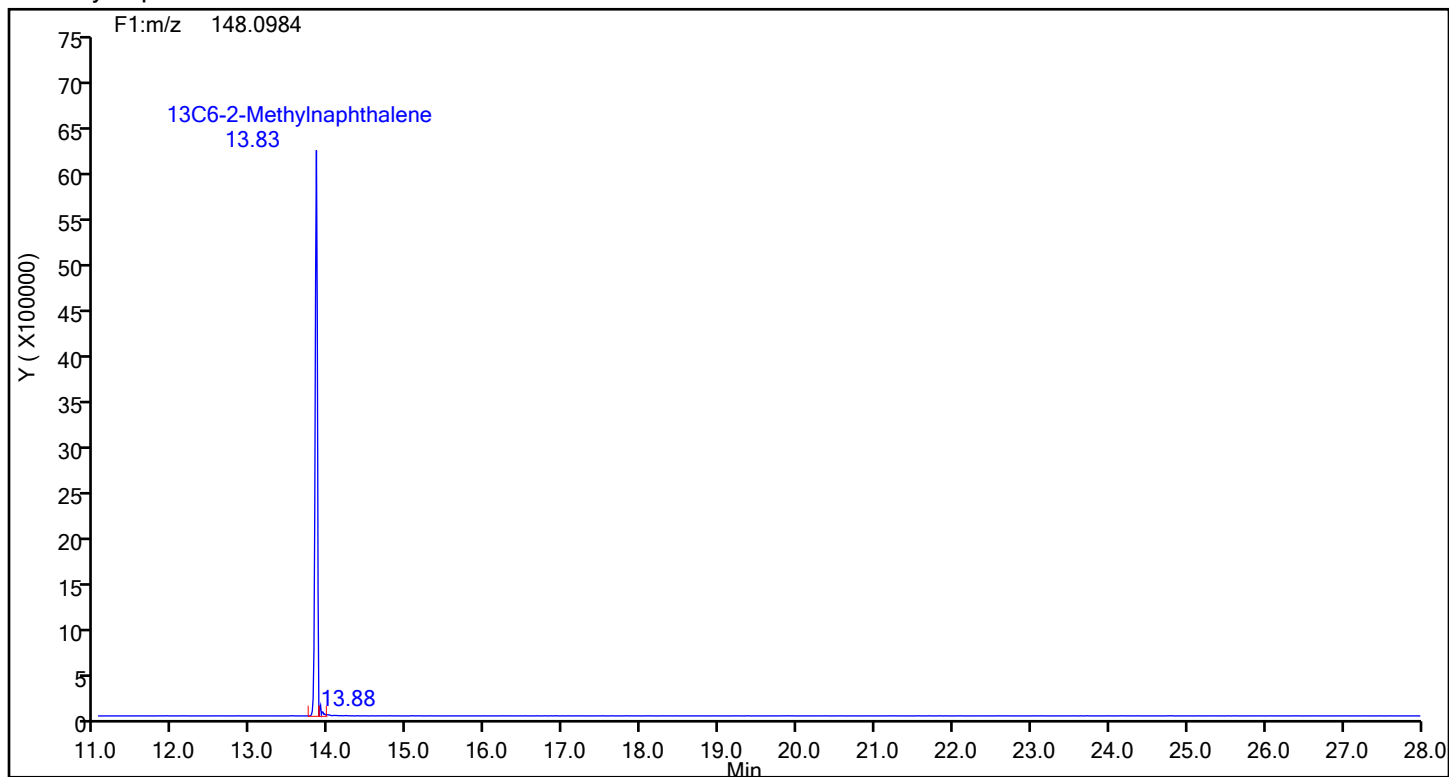
Eurofins Knoxville

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Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



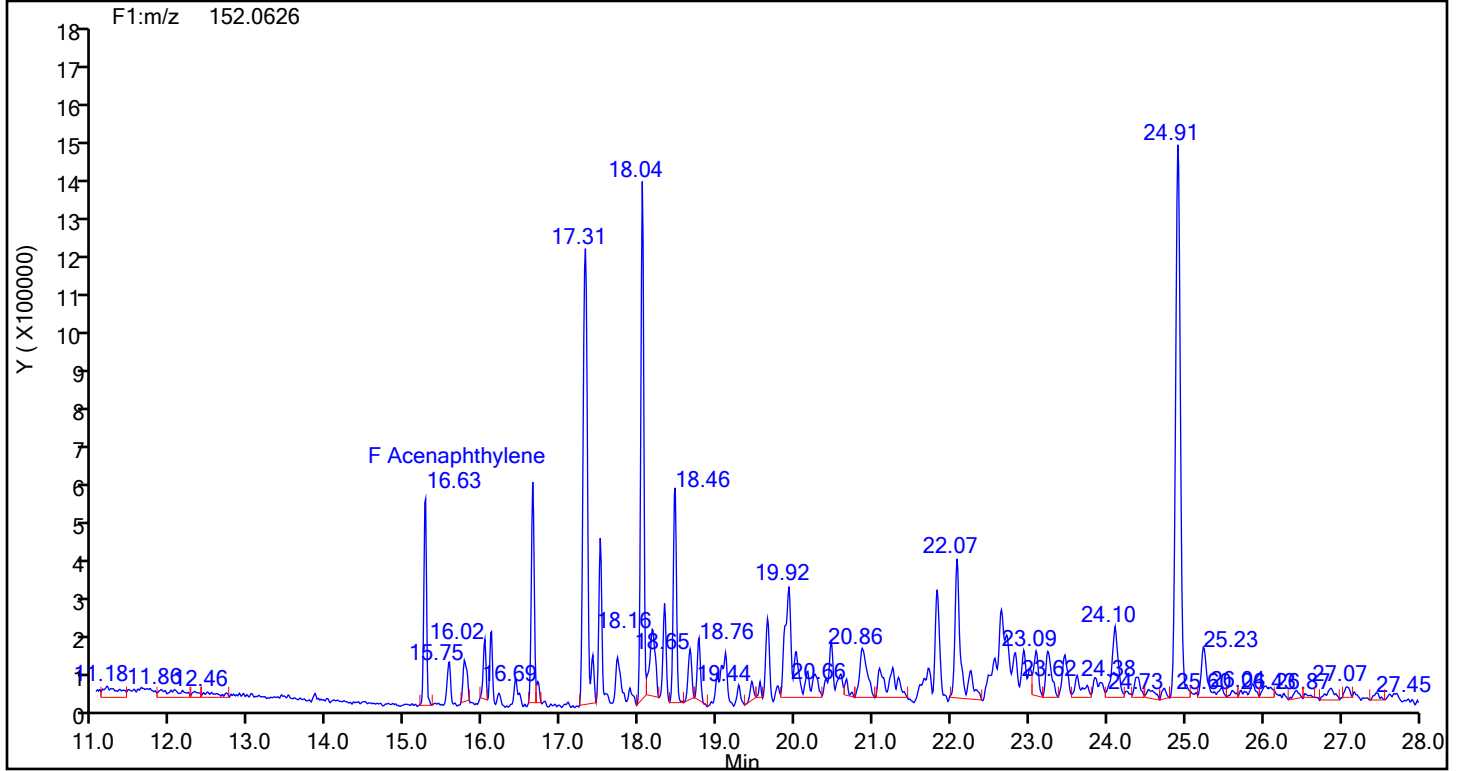
2-Methylnaphthalene Standards



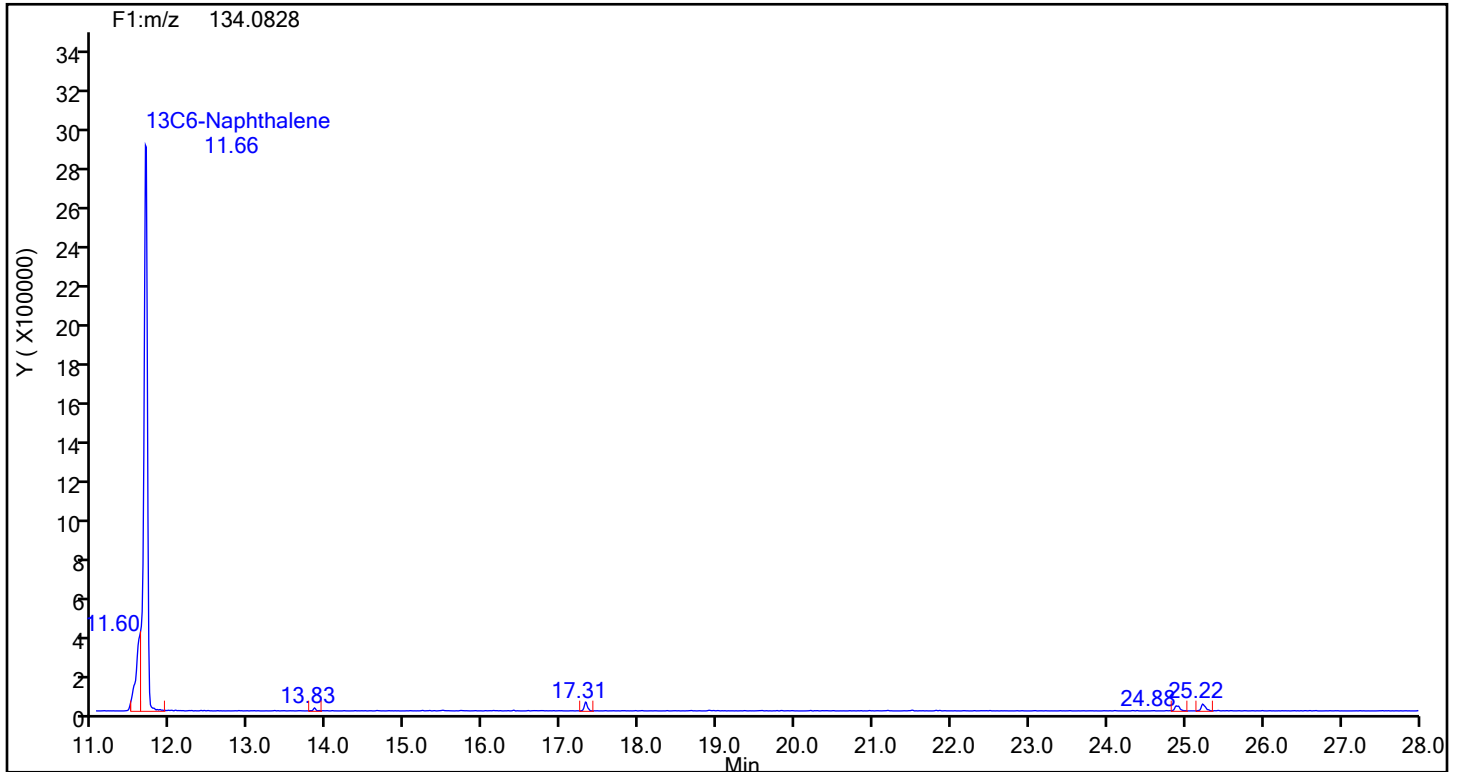
Eurofins Knoxville

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Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

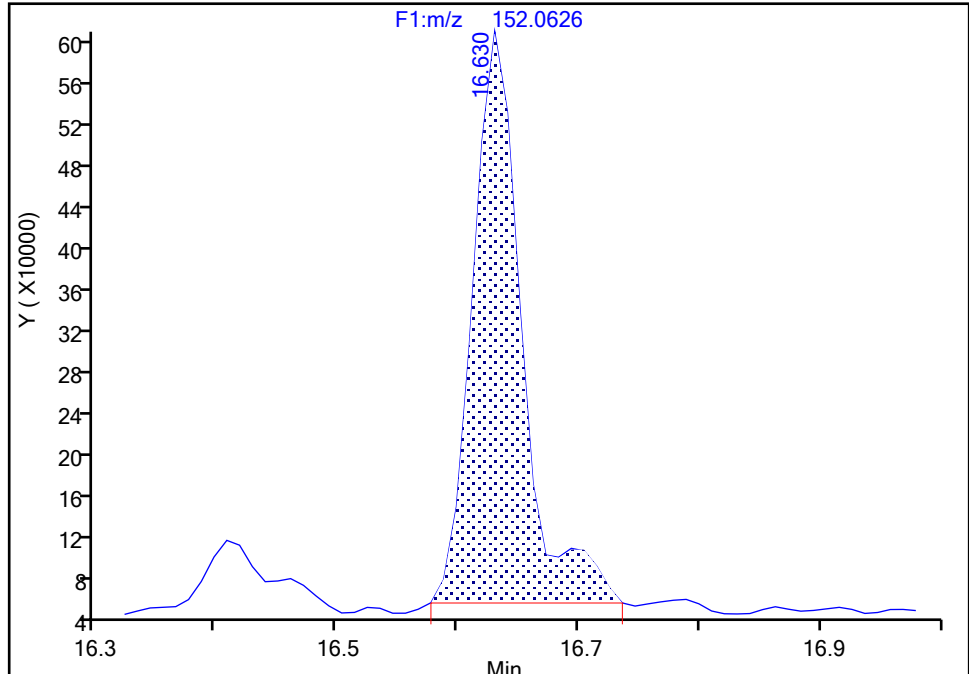
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Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Acenaphthylene, CAS: 208-96-8

Signal: 1

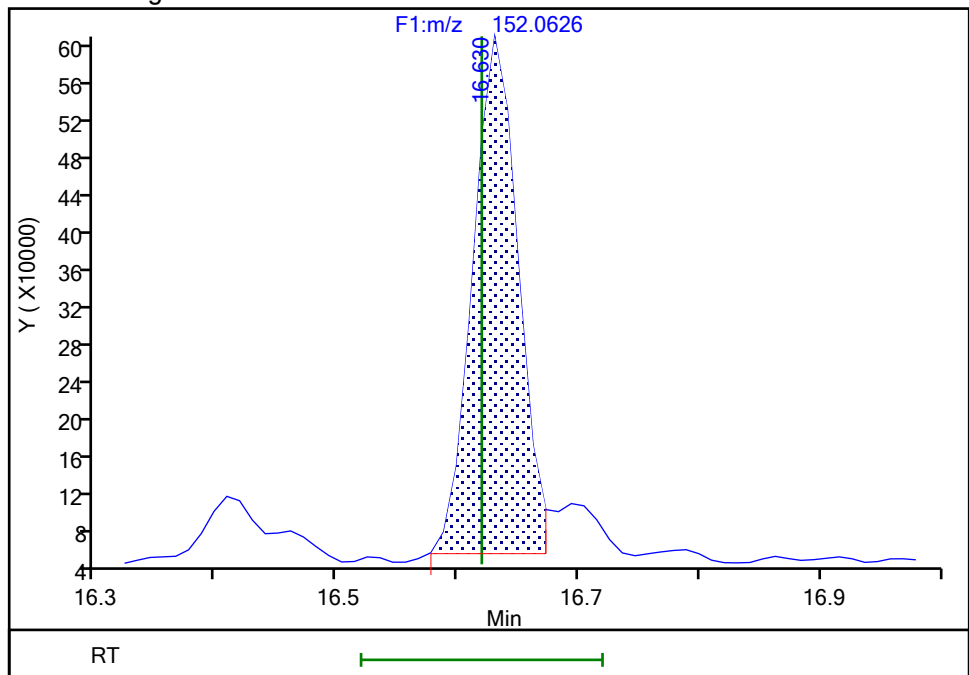
RT: 16.63
Area: 1562724
Amount: 0.612339
Amount Units: pg/ul

Processing Integration Results



RT: 16.63
Area: 1438944
Amount: 0.563837
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

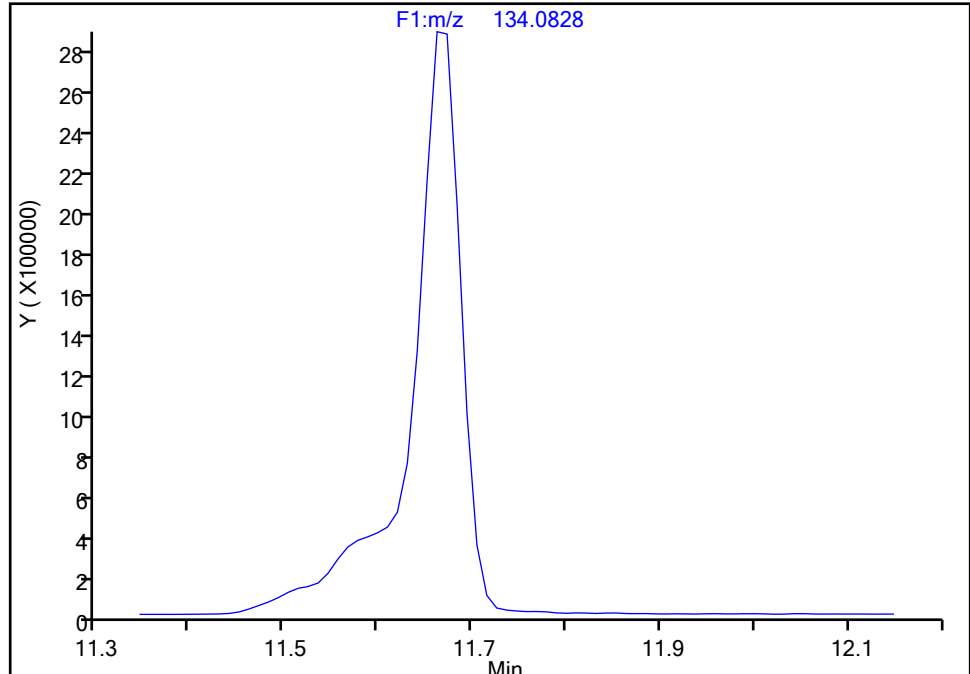
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Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

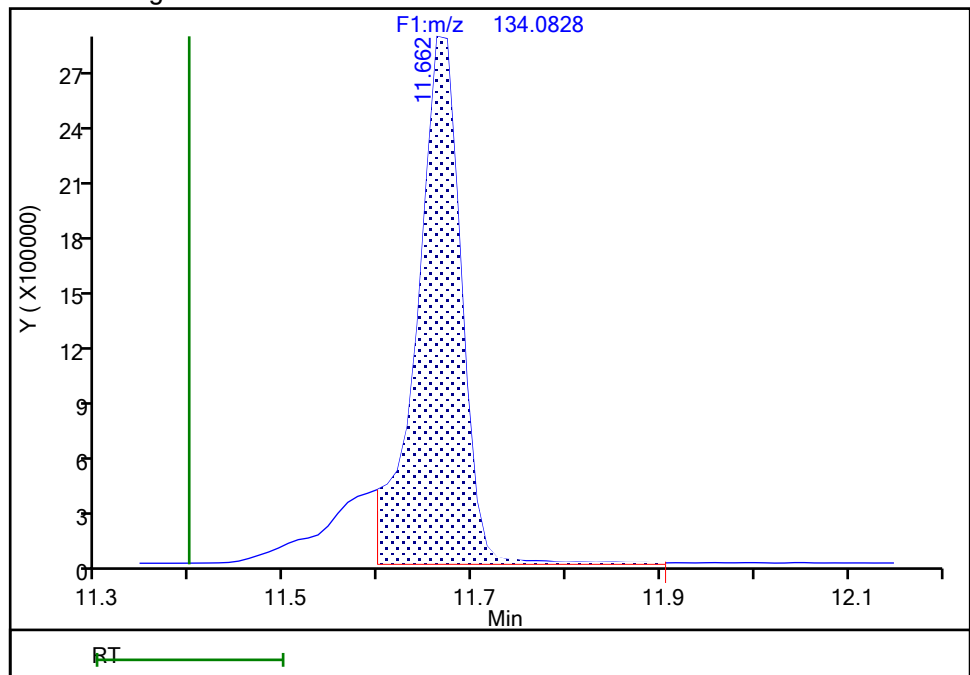
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.66
Area: 9426101
Amount: 1.752487
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:55 -04:00:00 (UTC)

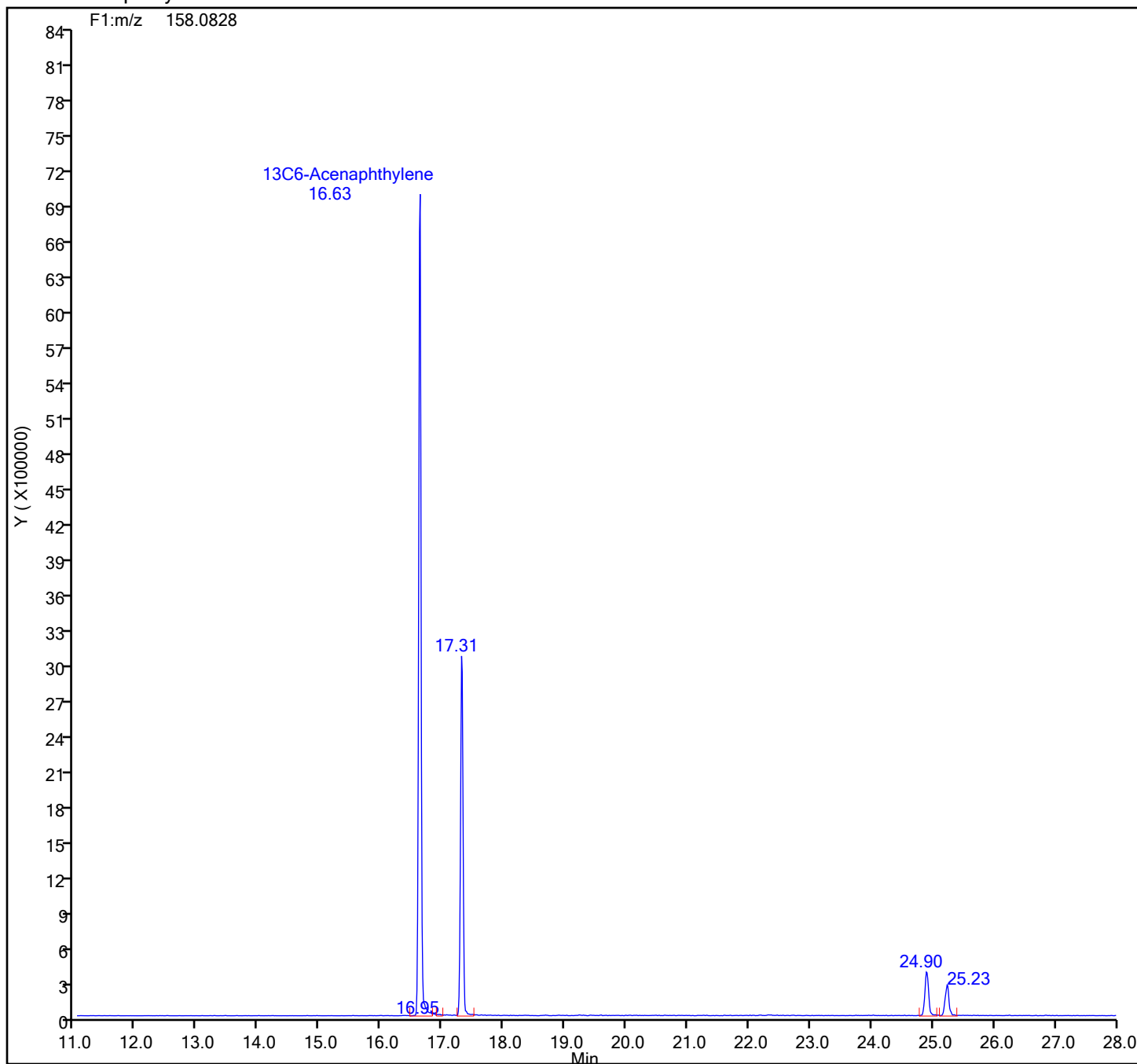
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

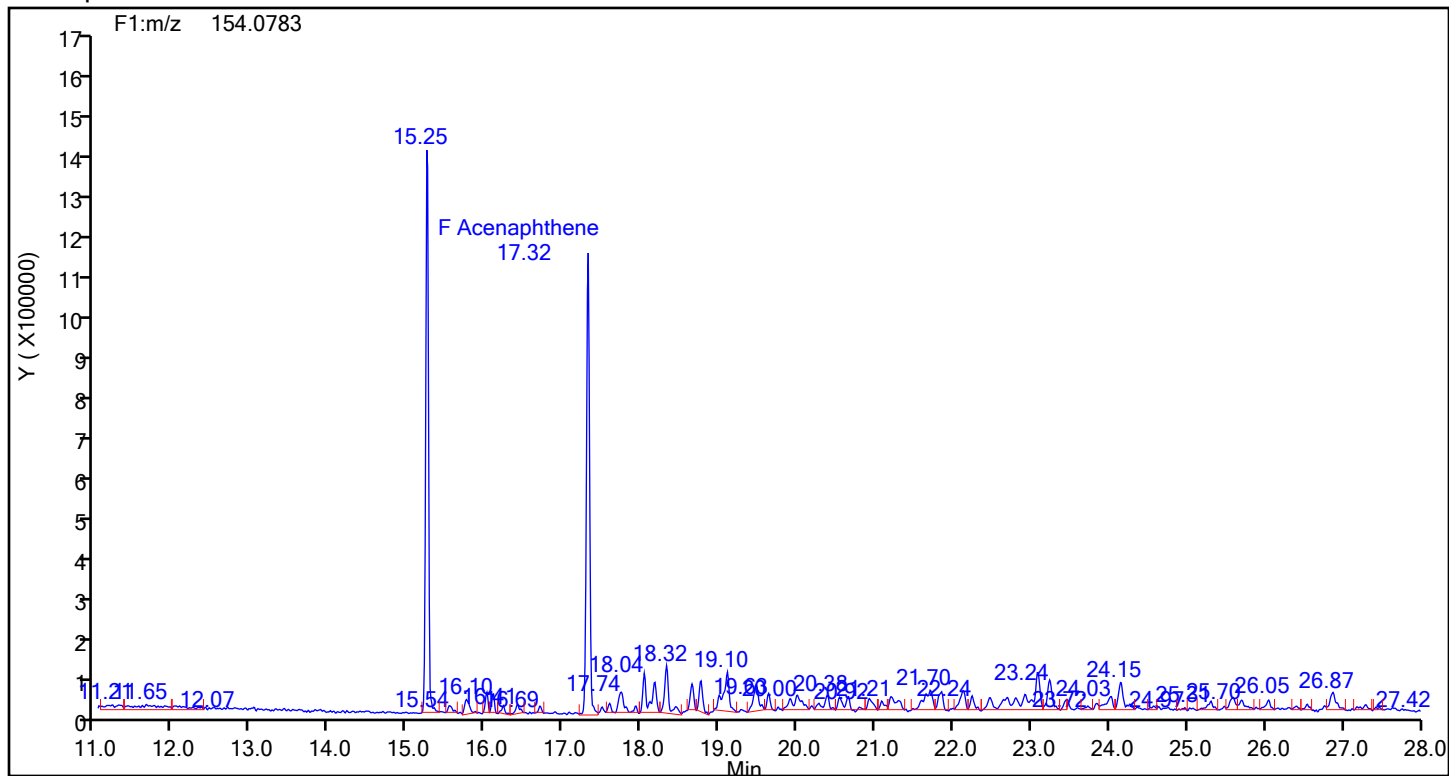
13C6-Acenaphthylene Standards



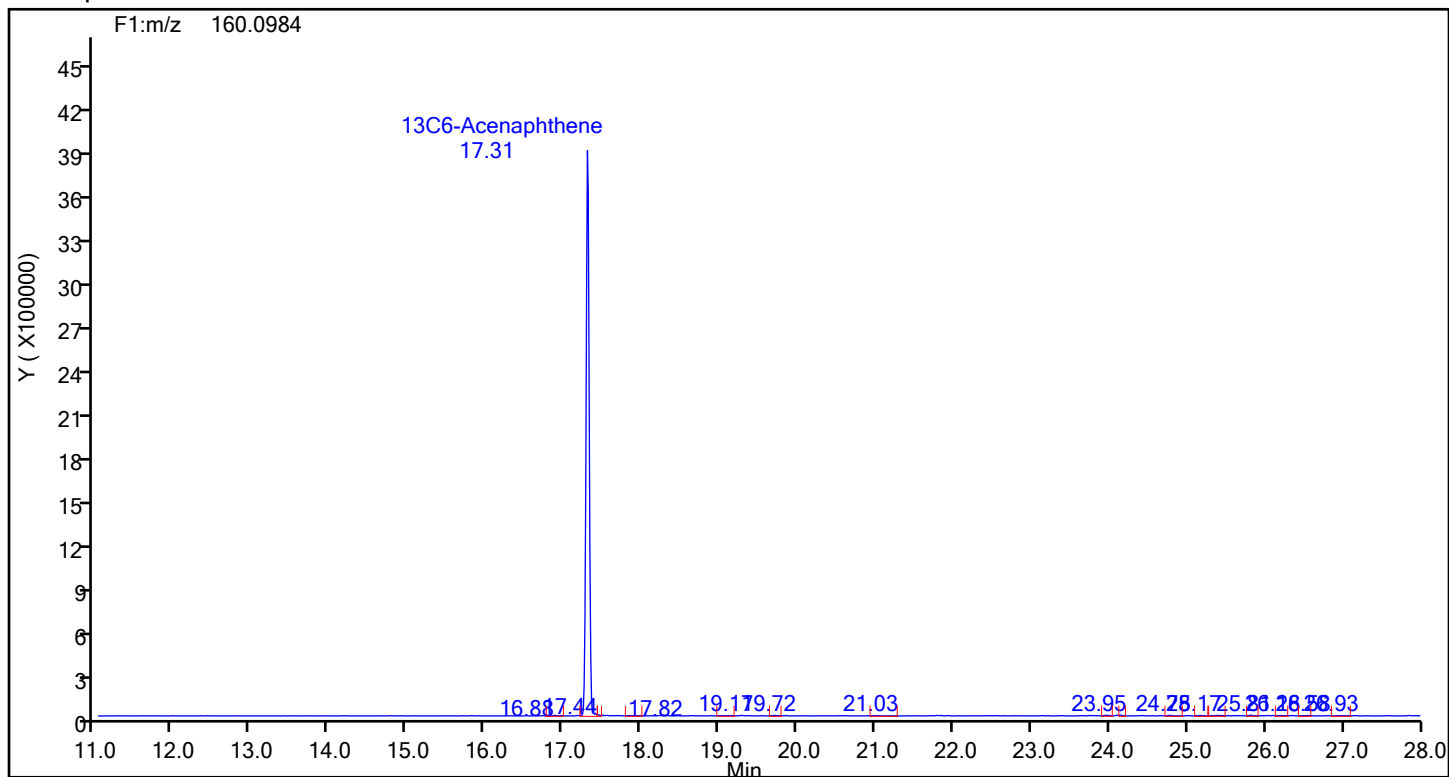
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



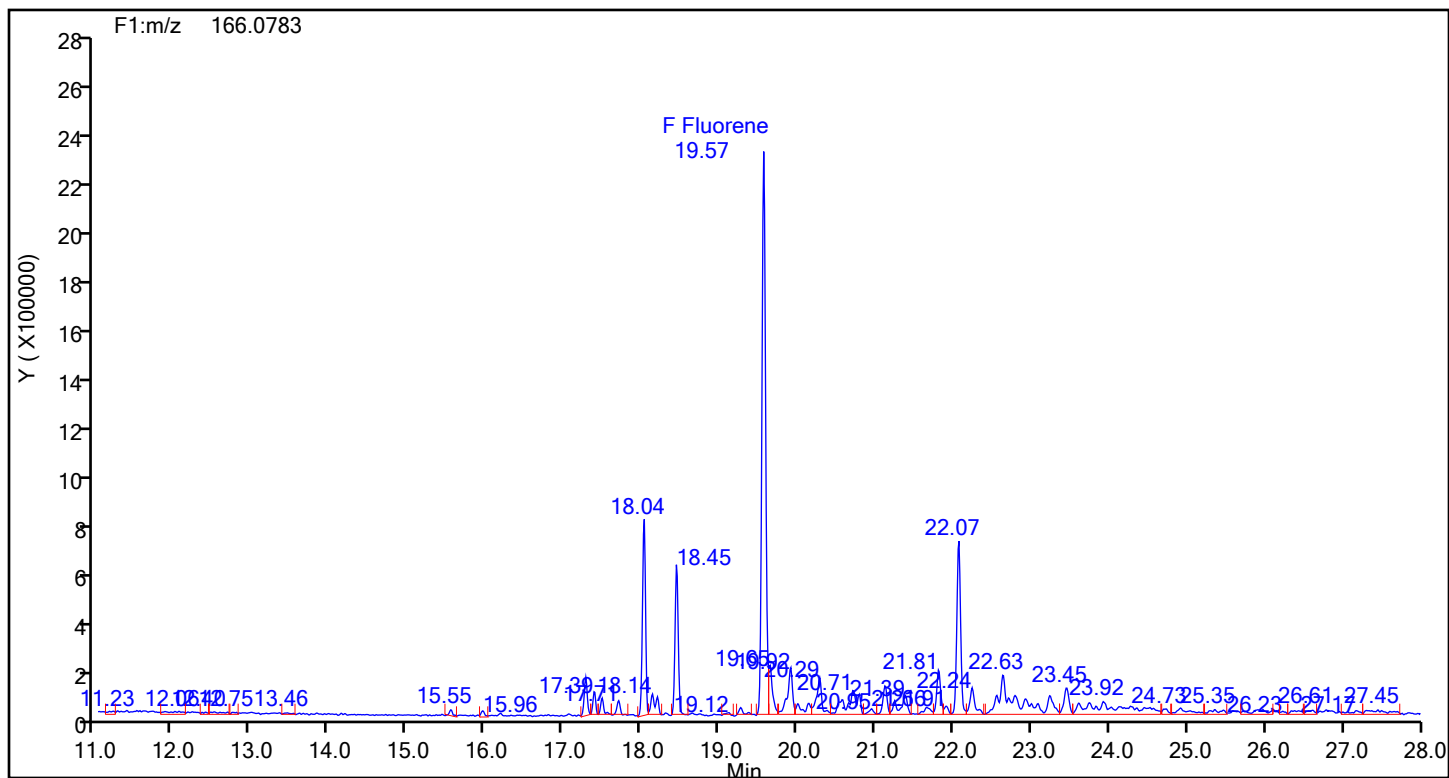
Acenaphthene Standards



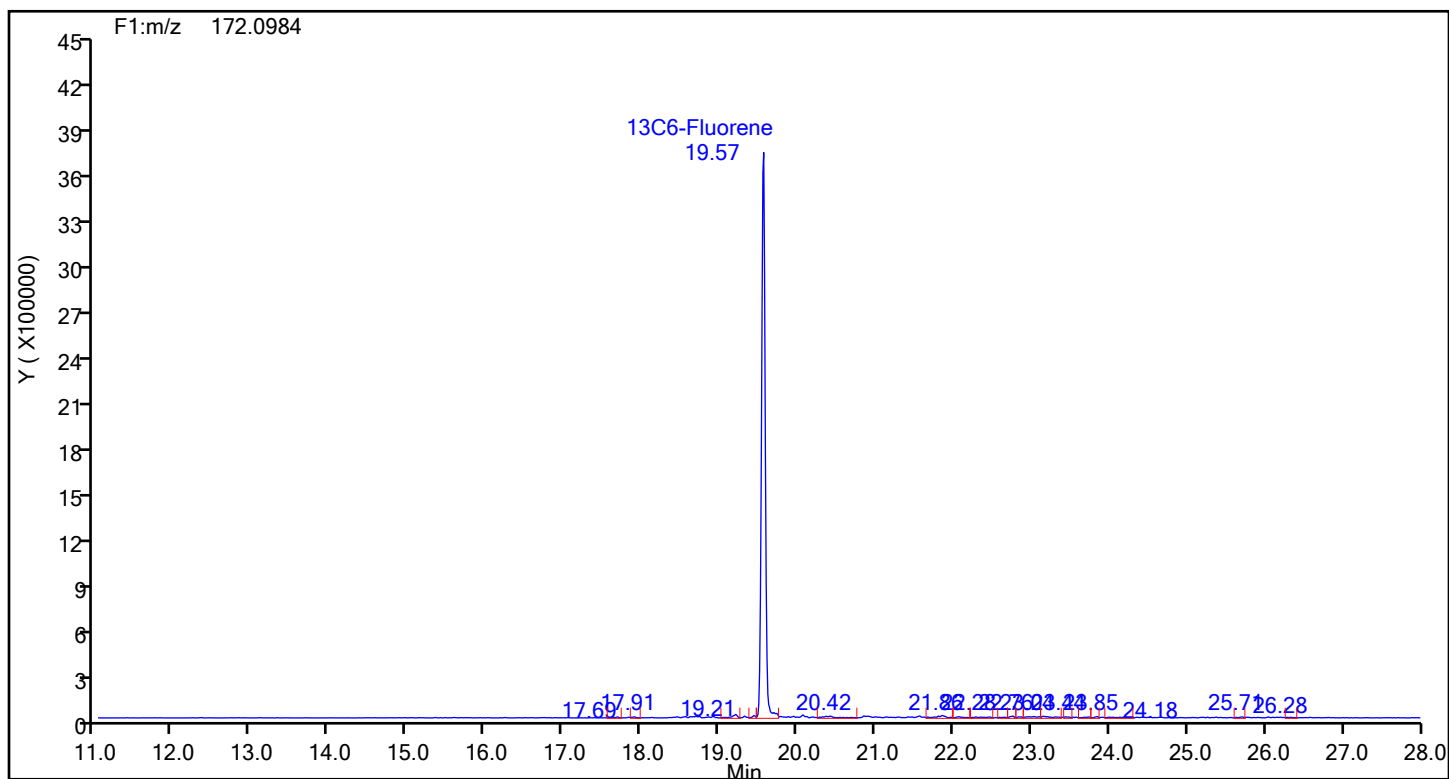
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

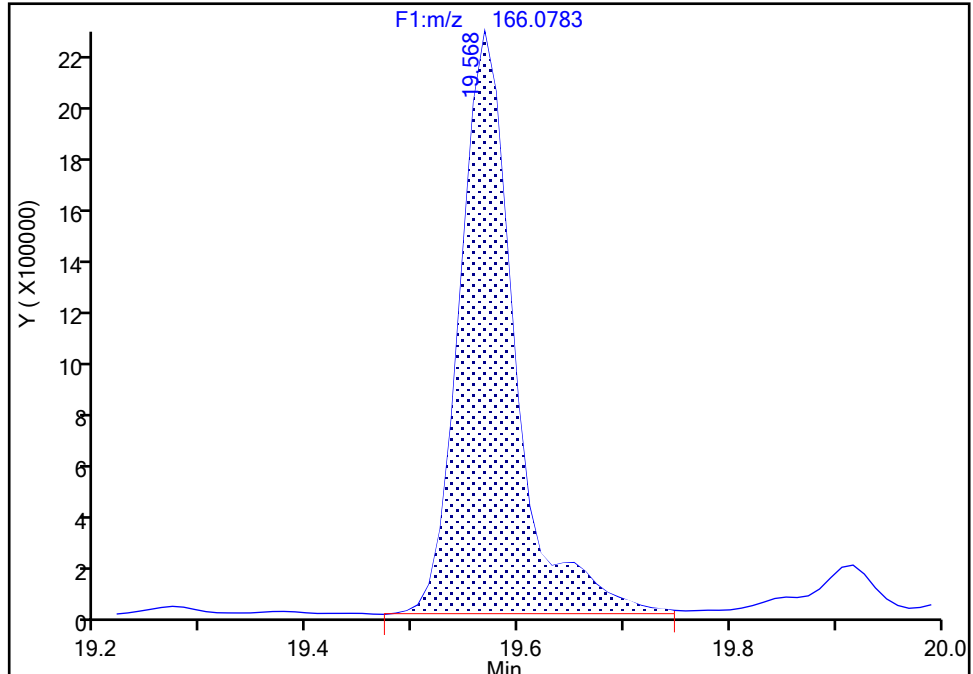
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Fluorene, CAS: 86-73-7

Signal: 1

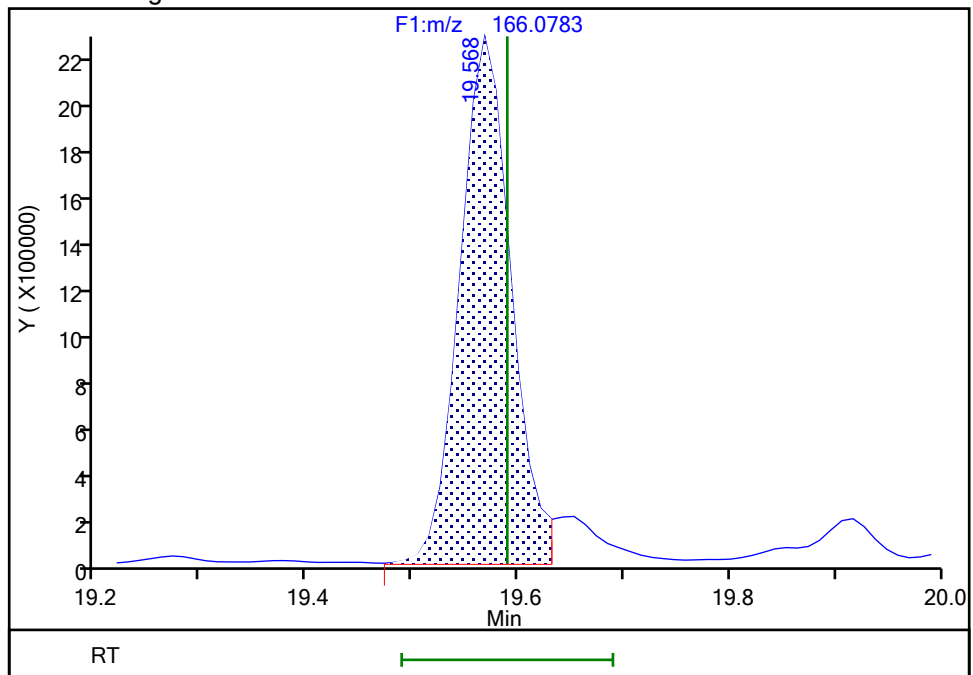
RT: 19.57
Area: 8300541
Amount: 5.365287
Amount Units: pg/ul

Processing Integration Results



RT: 19.57
Area: 7677694
Amount: 4.962692
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:31 -04:00:00 (UTC)

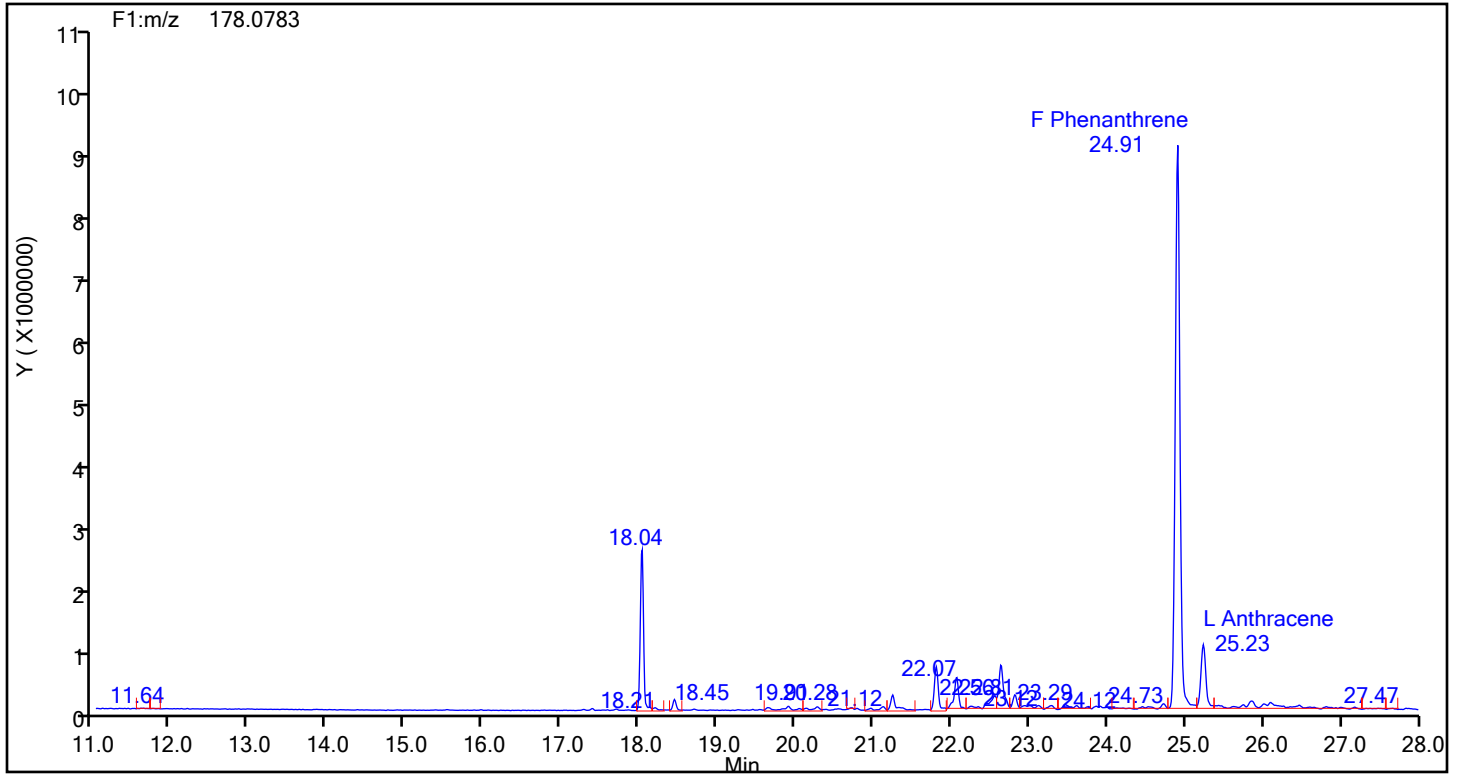
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

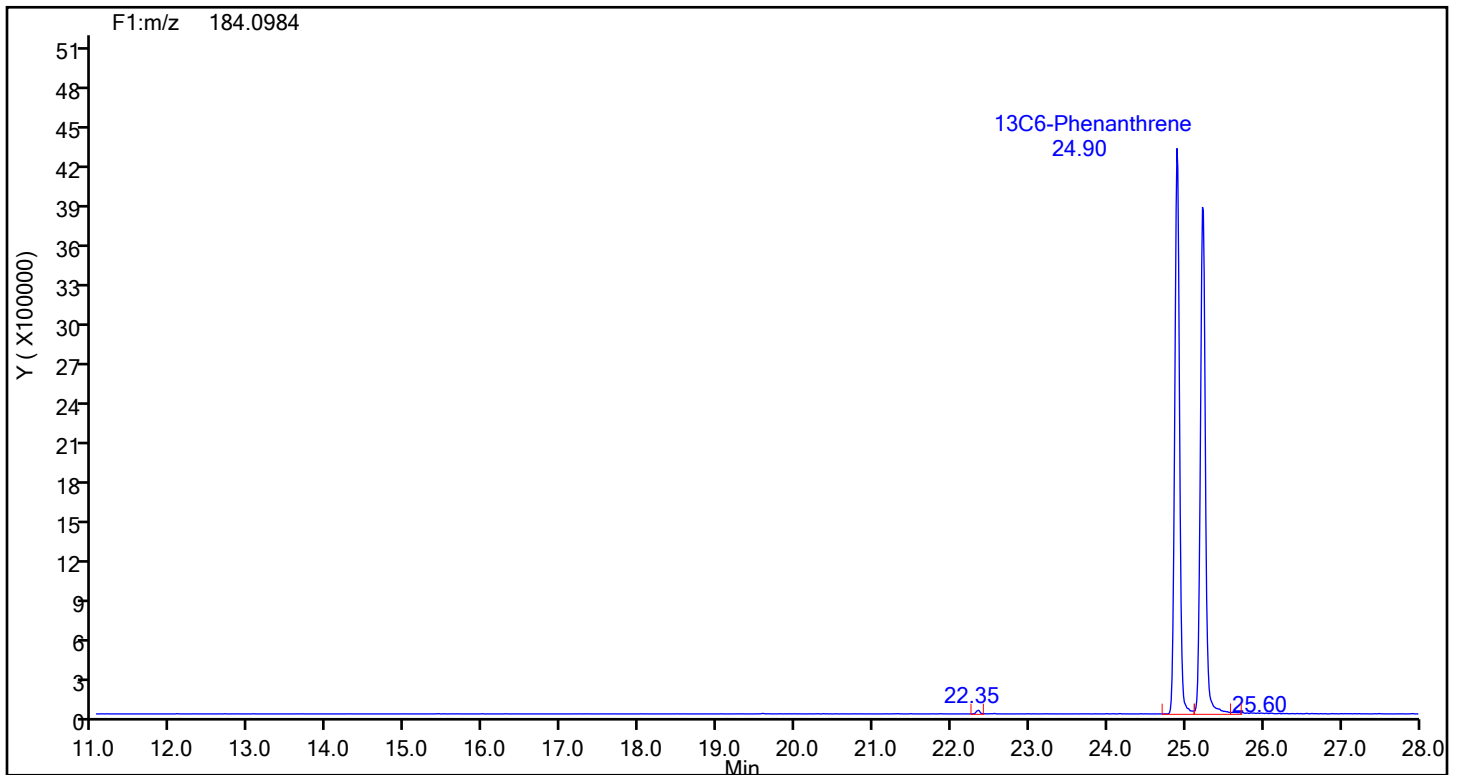
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

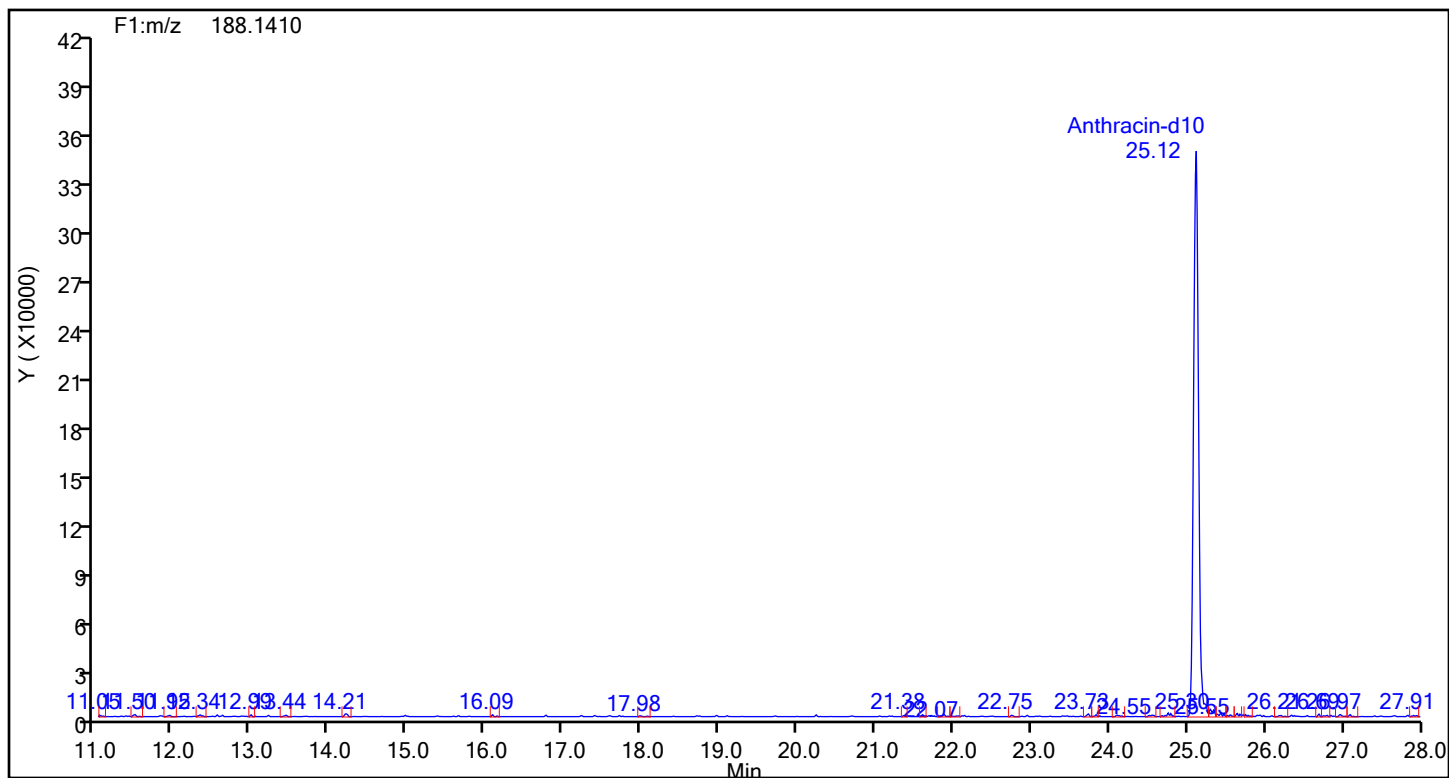


Phenanthrene Standards

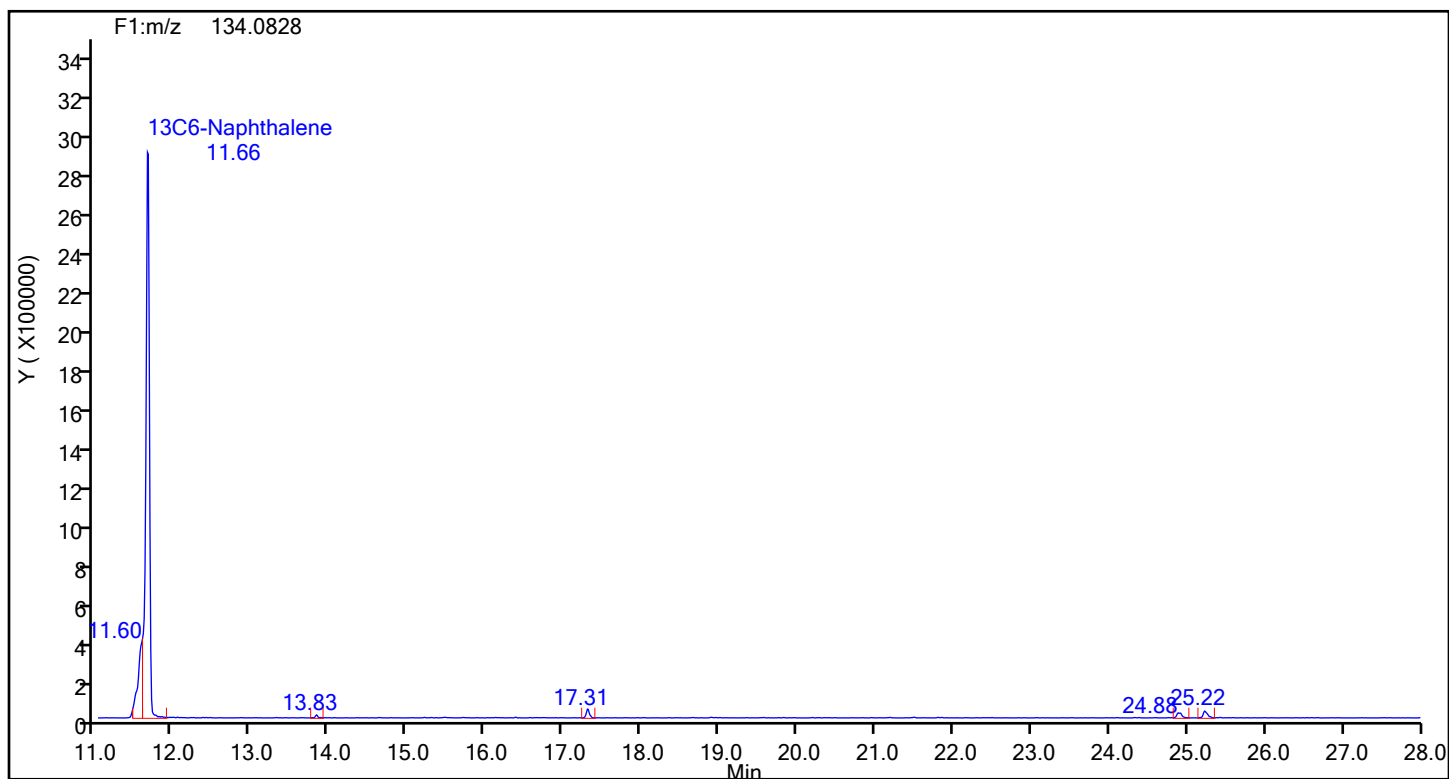


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

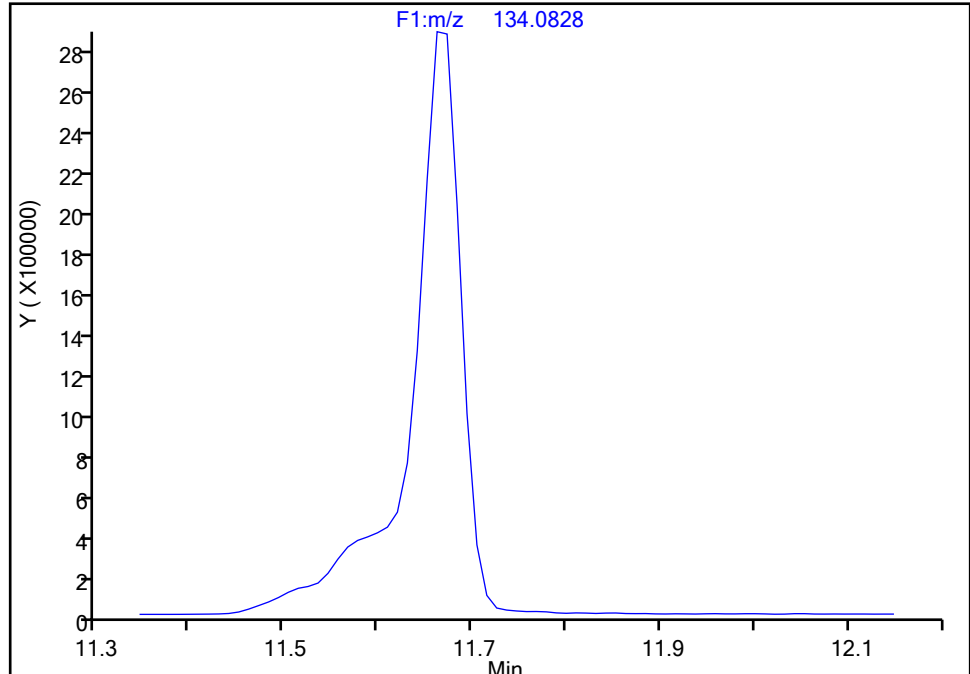
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

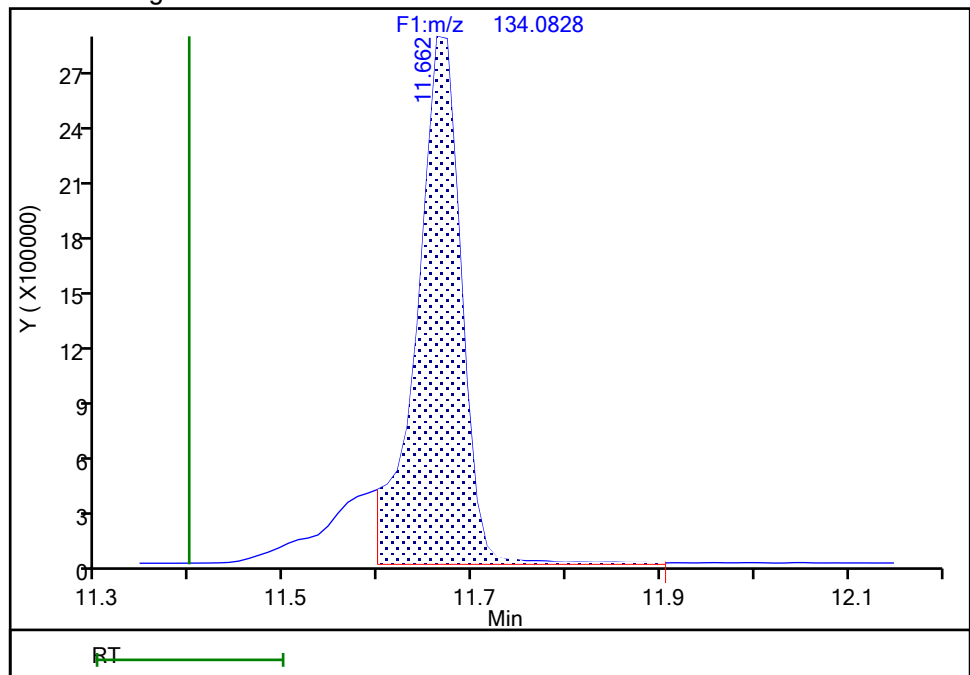
Not Detected
Expected RT: 11.40

Processing Integration Results



RT: 11.66
Area: 9426101
Amount: 1.752487
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:31:55 -04:00:00 (UTC)

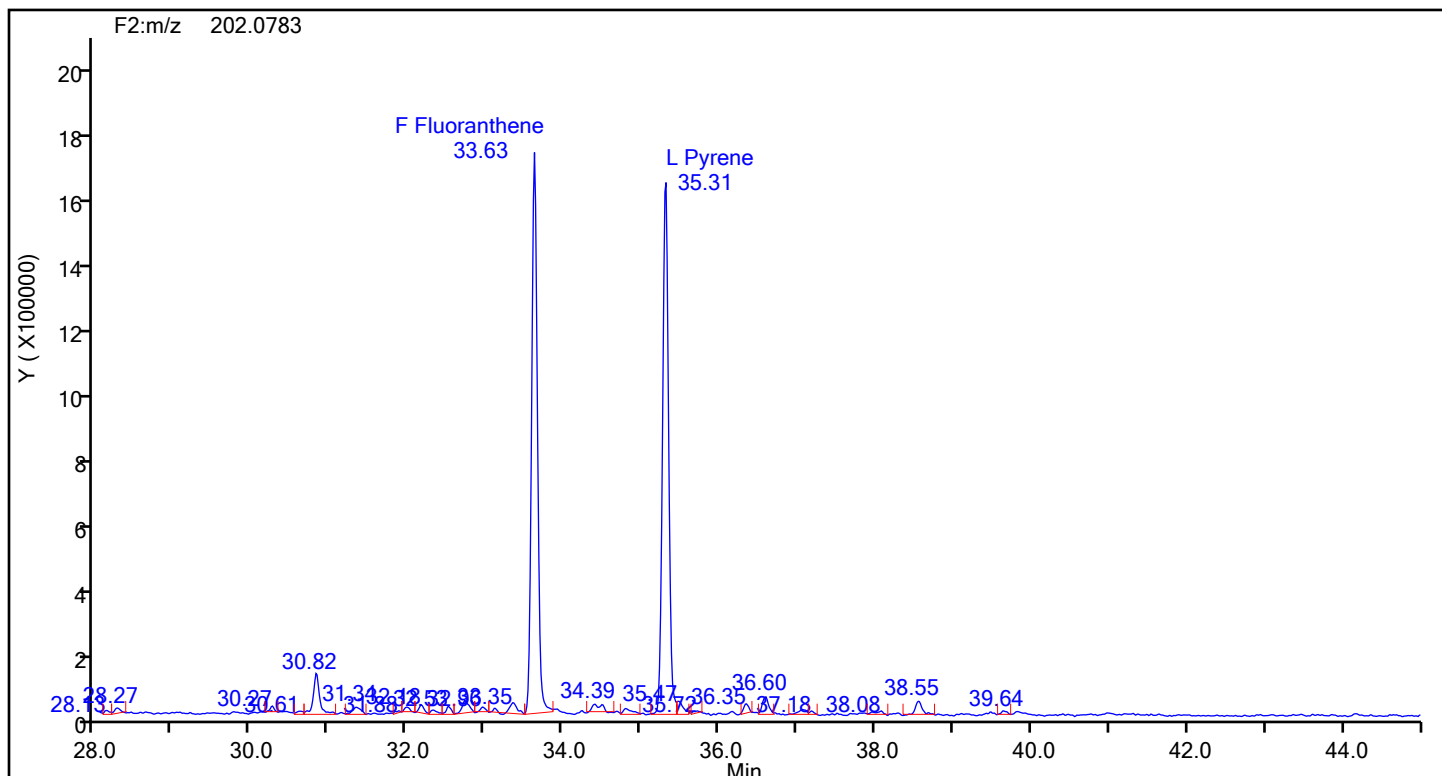
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

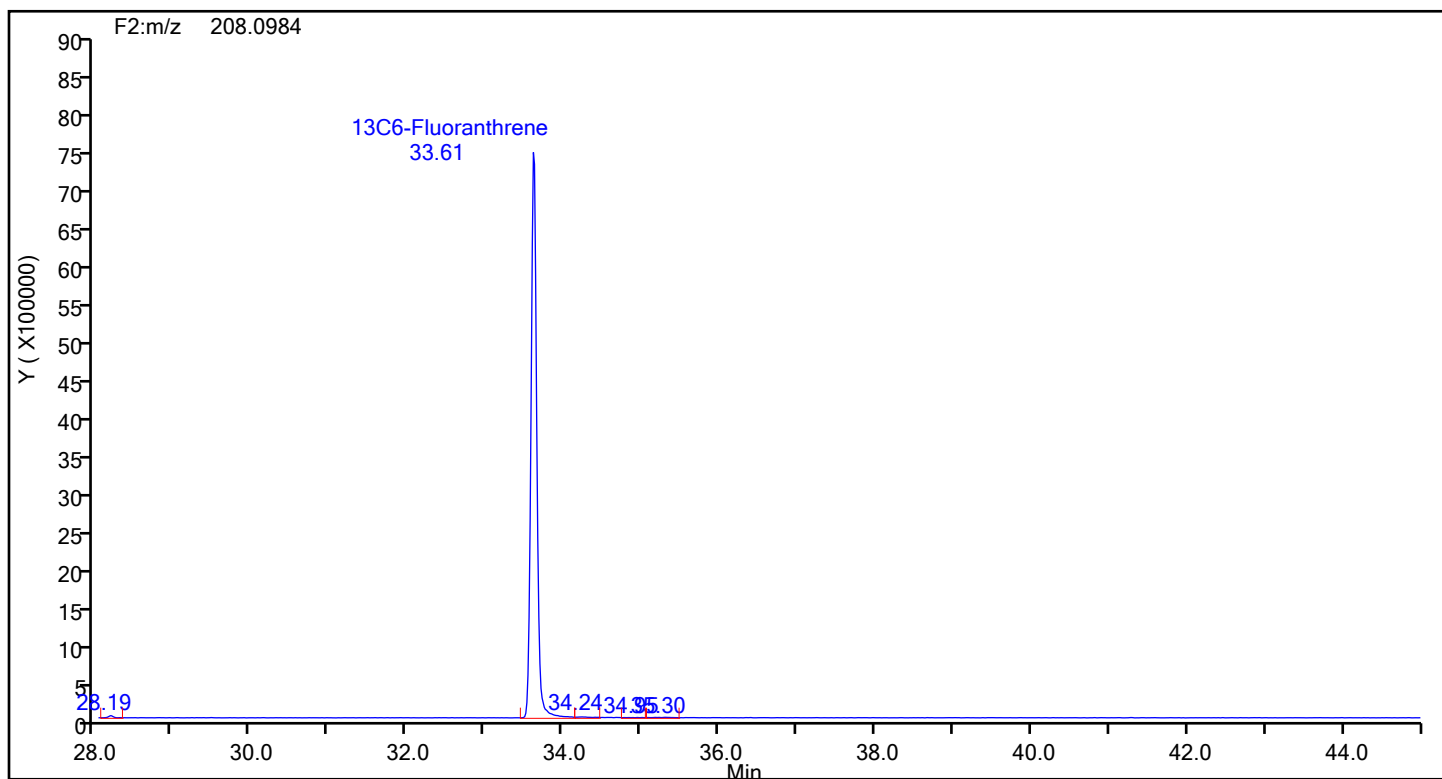
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluoranthene



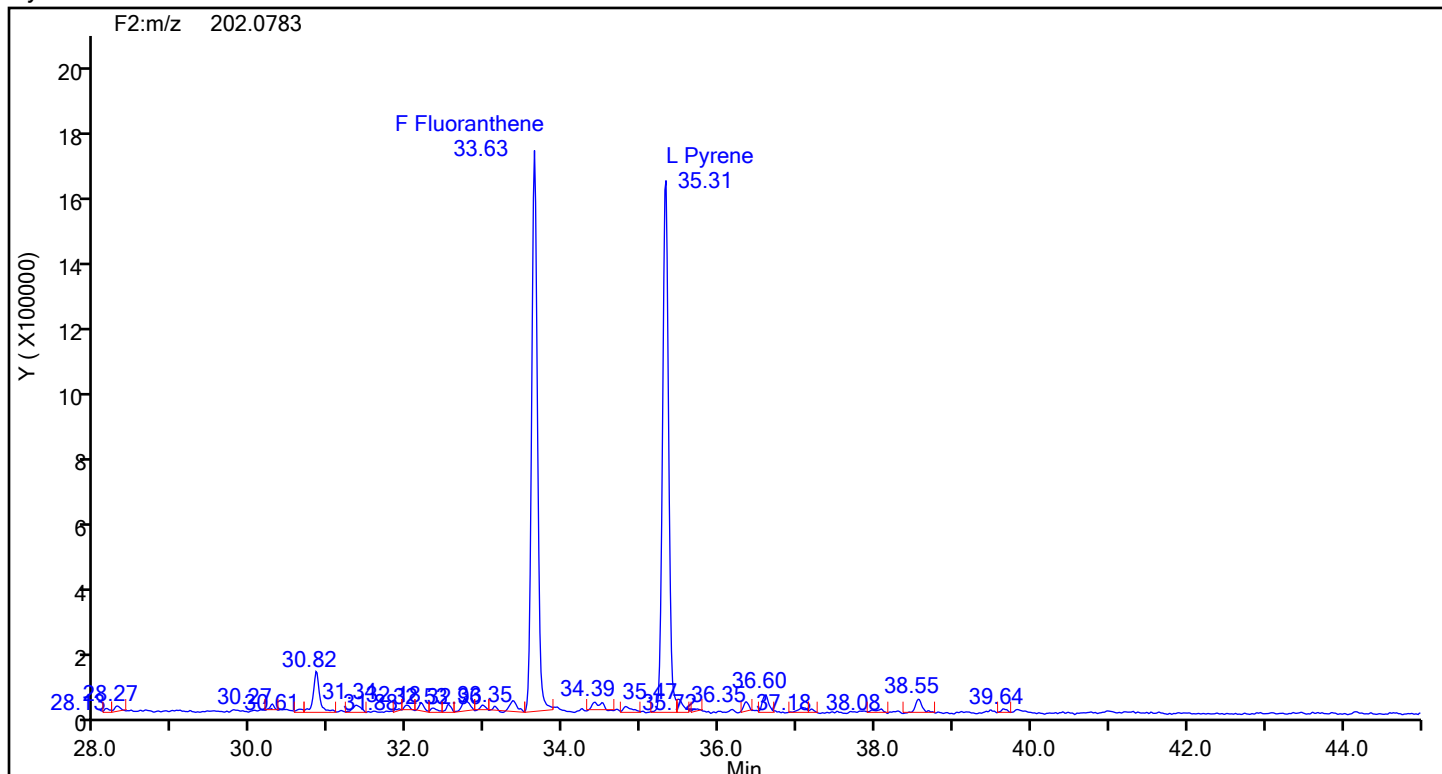
Fluoranthene Standards



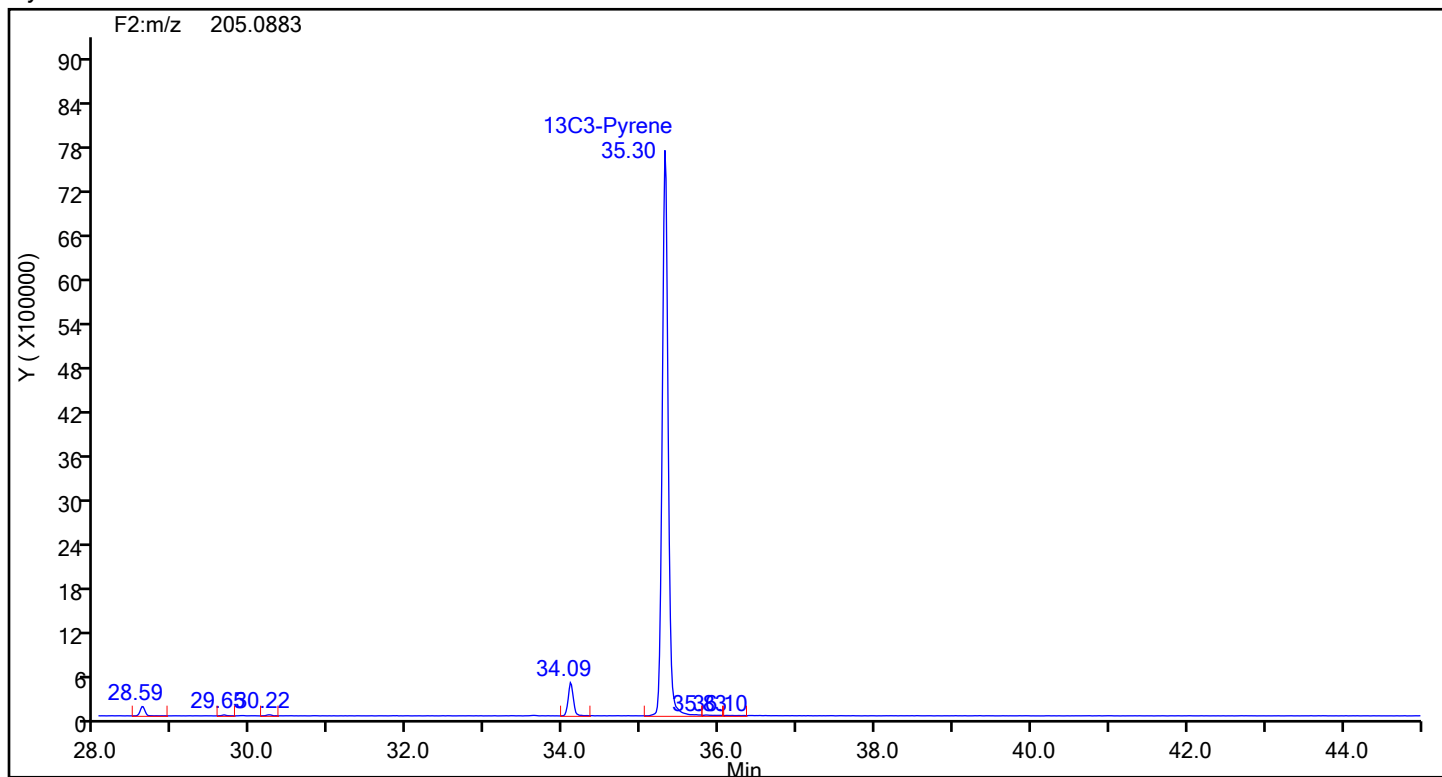
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



Pyrene Standards



Eurofins Knoxville

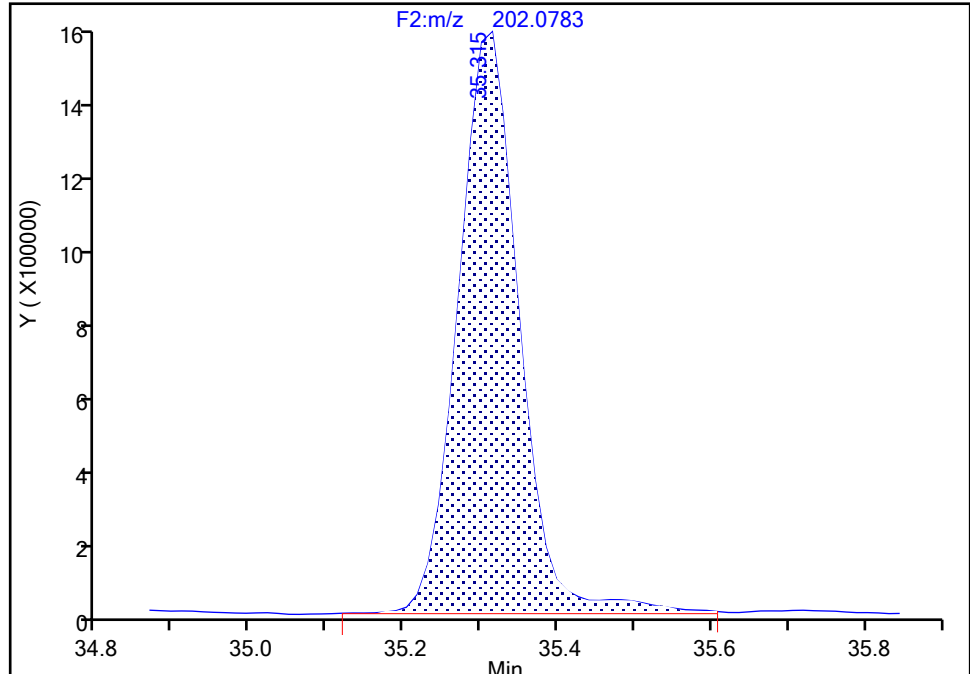
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F2(28.03 :43.99)

Pyrene, CAS: 129-00-0

Signal: 1

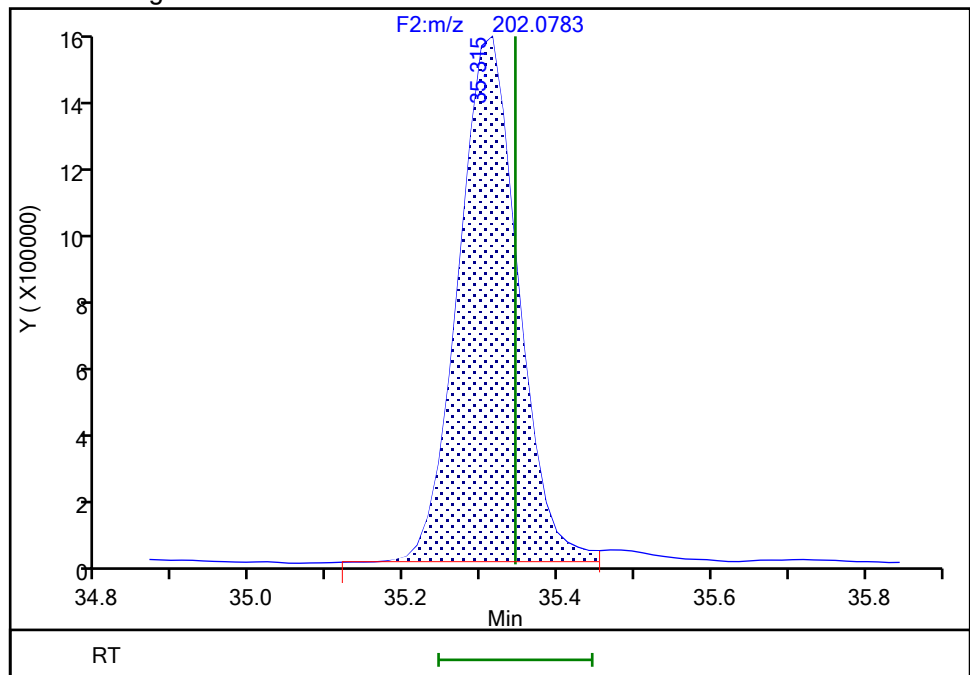
RT: 35.31
Area: 8638867
Amount: 1.988142
Amount Units: pg/ul

Processing Integration Results



RT: 35.31
Area: 8443080
Amount: 1.943084
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:11 -04:00:00 (UTC)

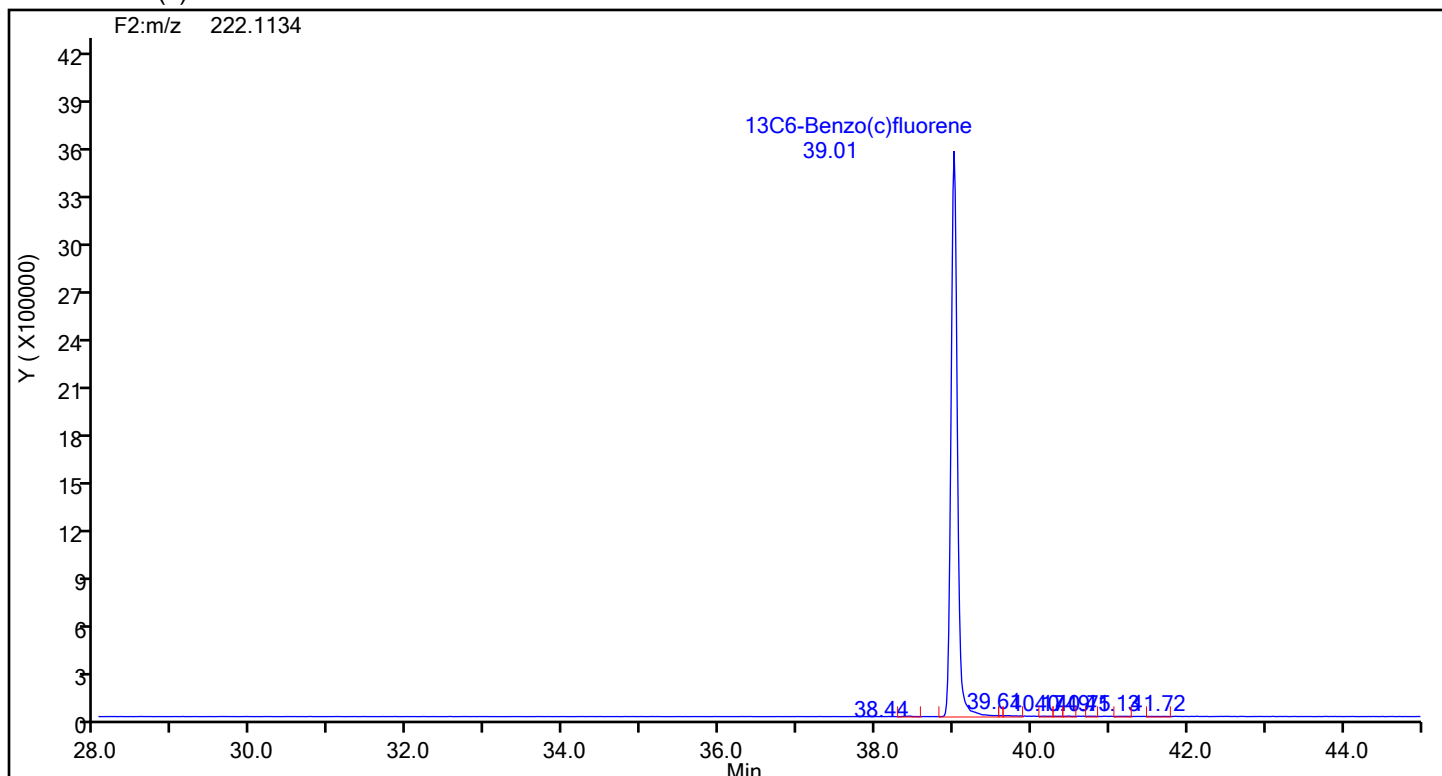
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

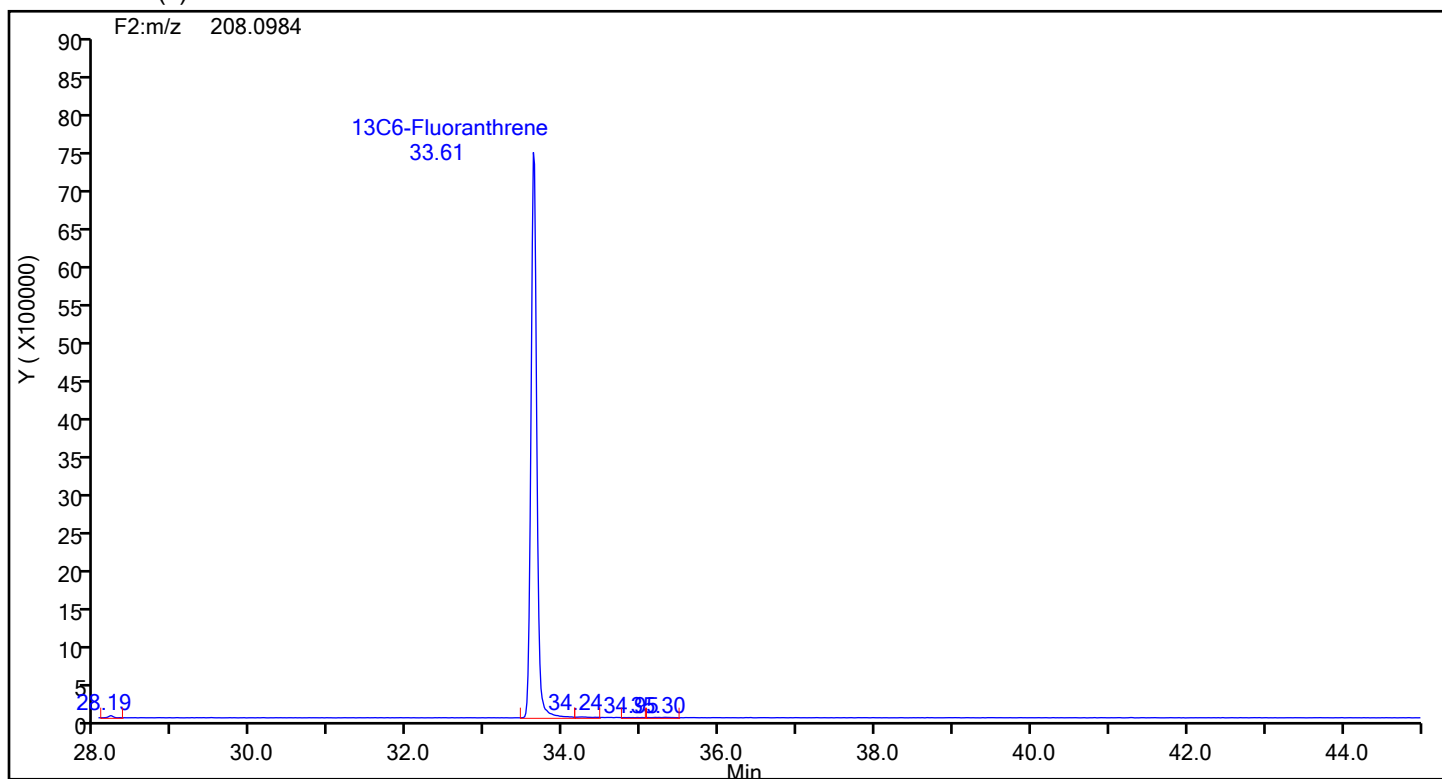
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



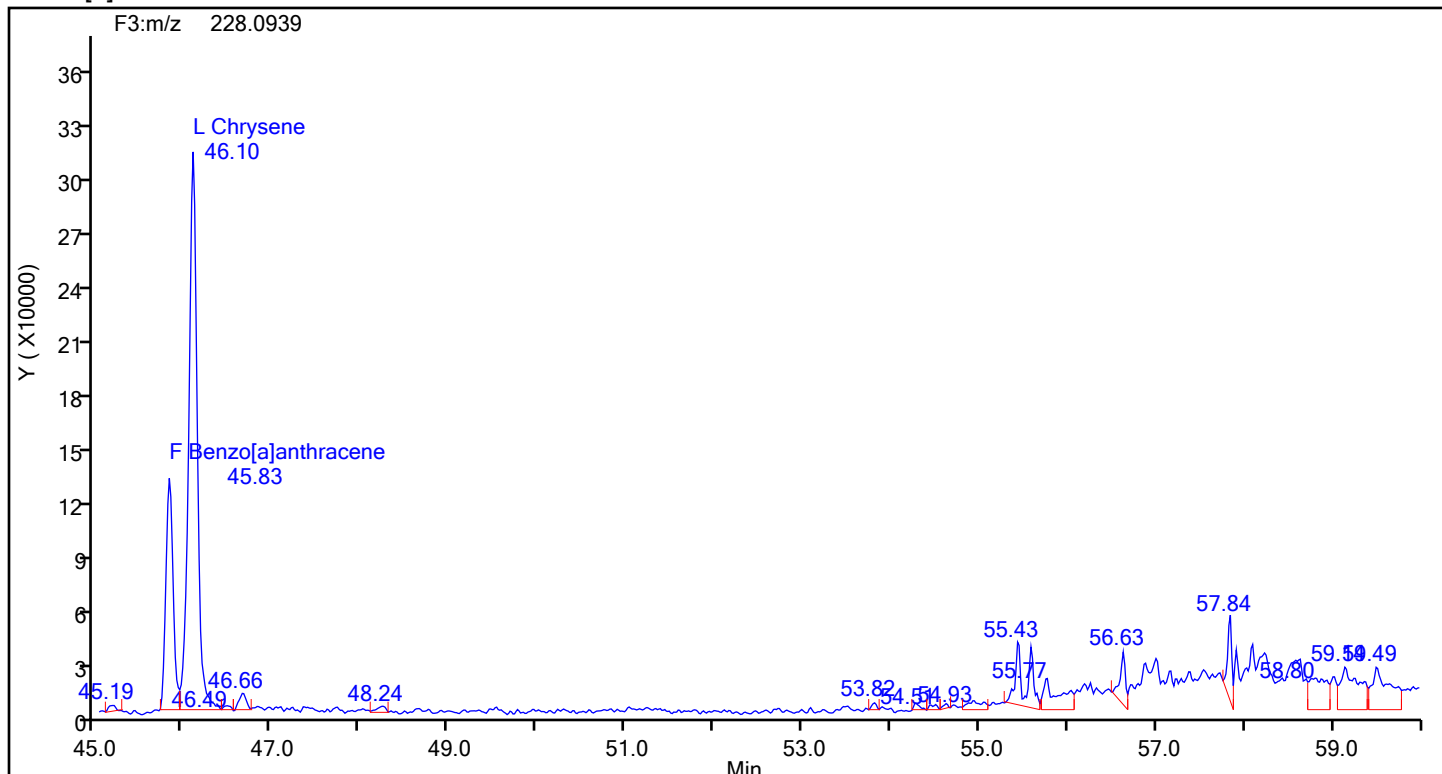
13C6-Benzo(c)fluorene Standards



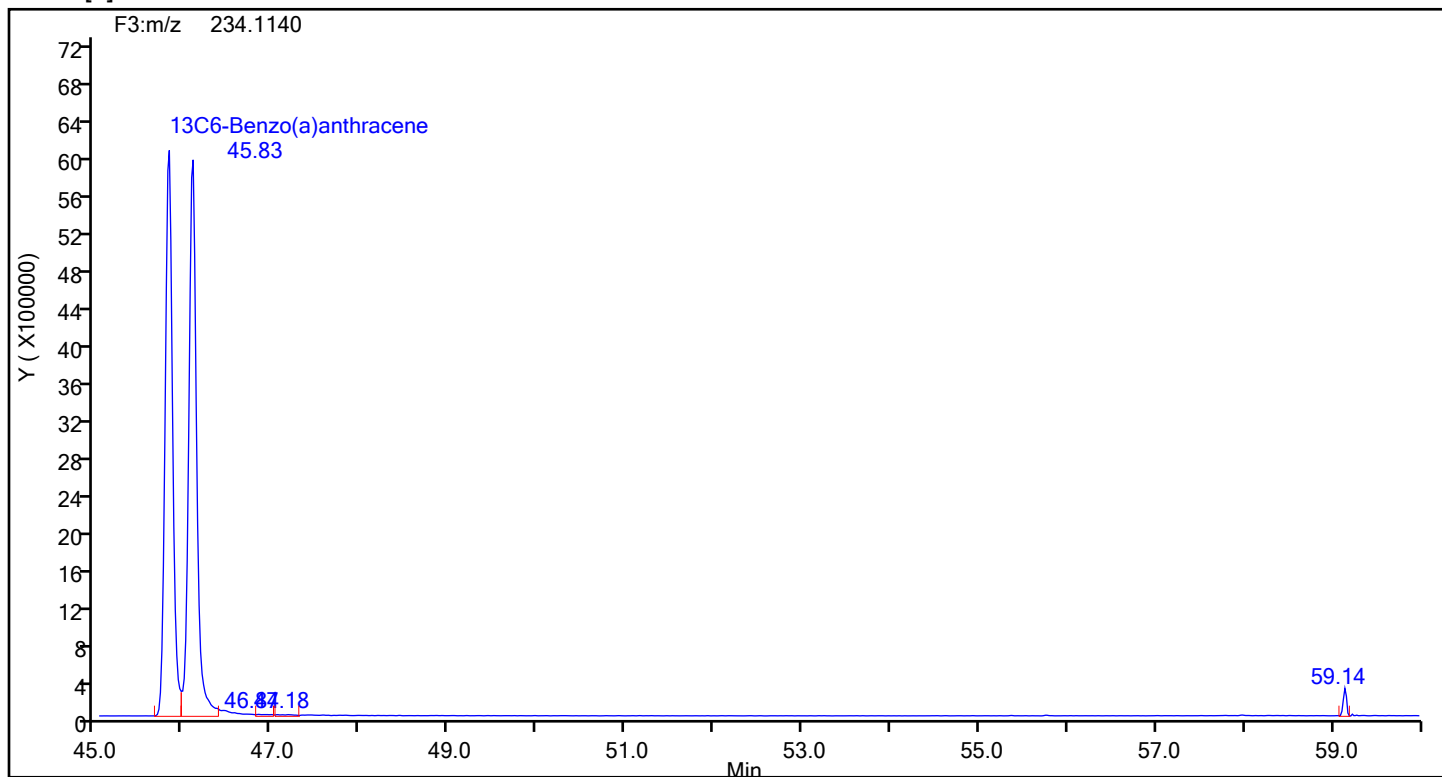
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



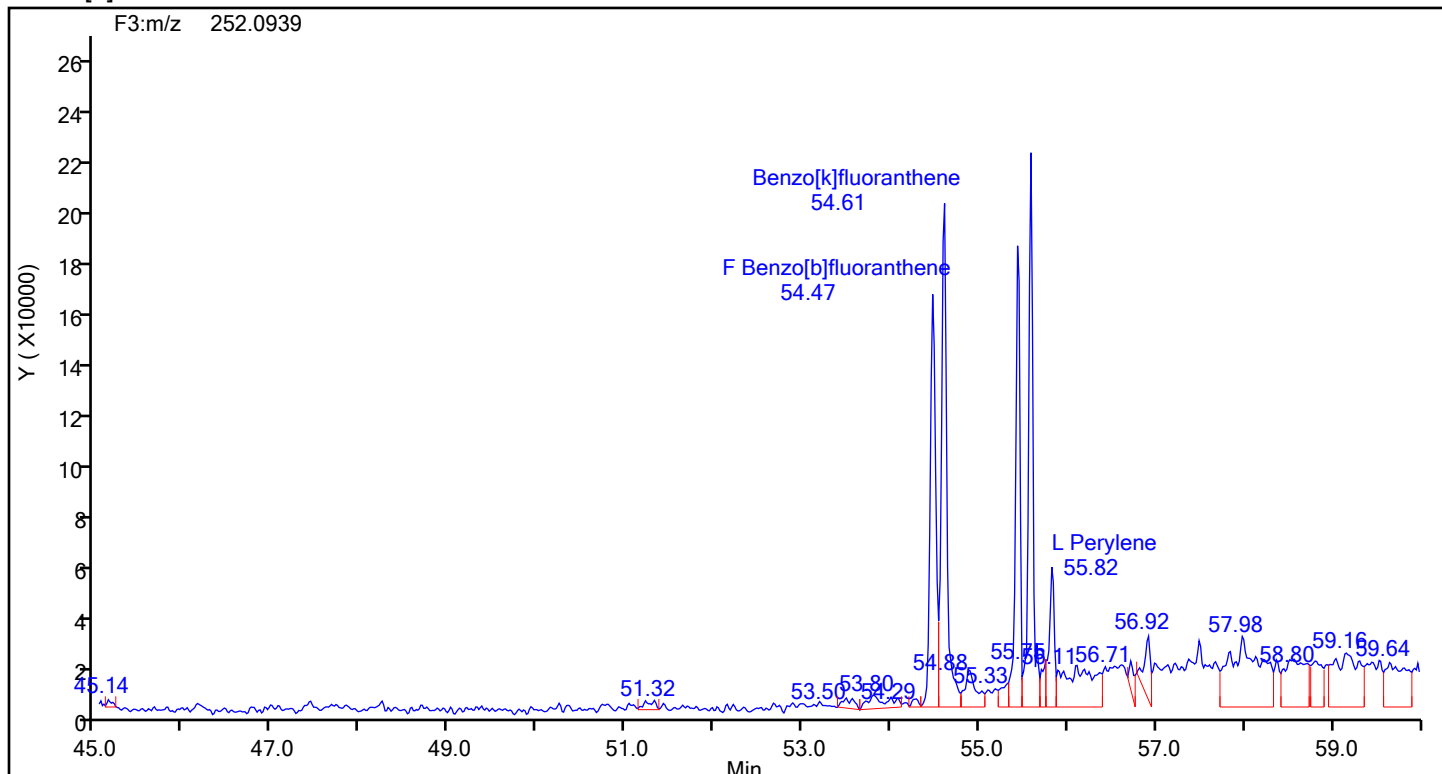
Benzo[a]anthracene Standards



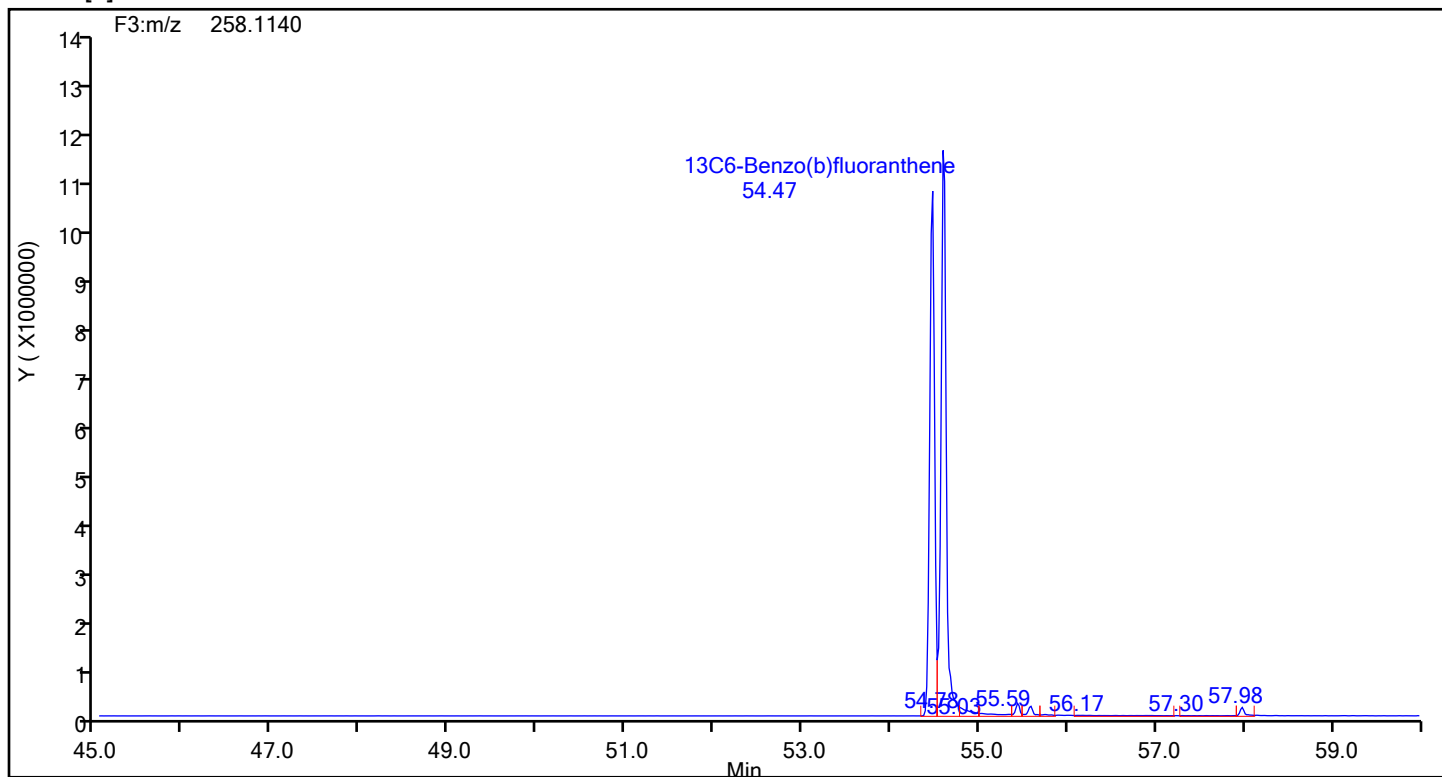
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

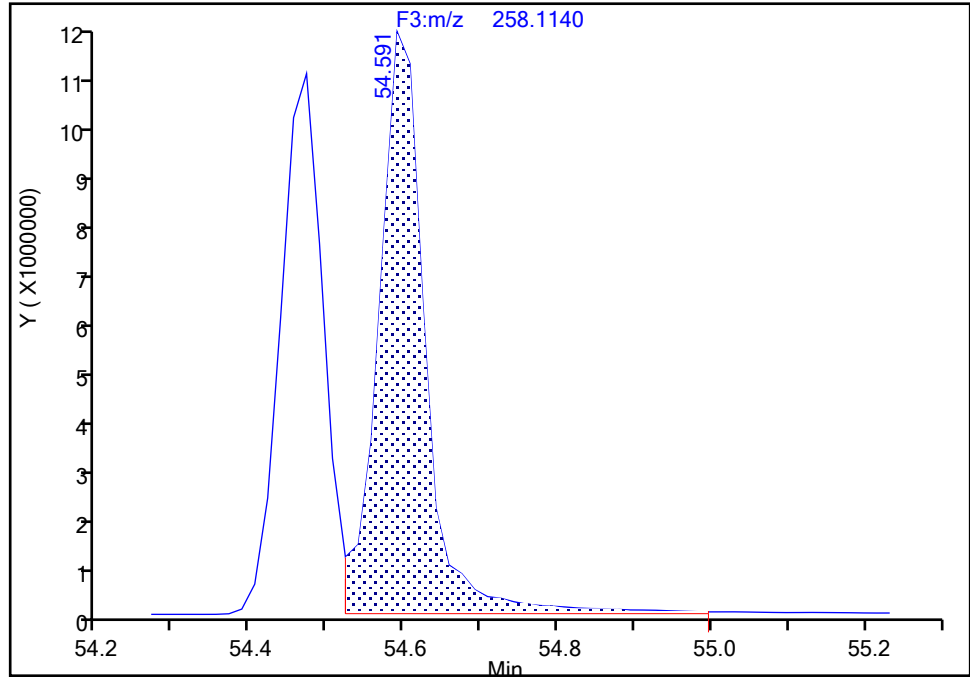
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

13C6-Benzo(k)fluoranthene, CAS: 1397194-60-3

Signal: 1

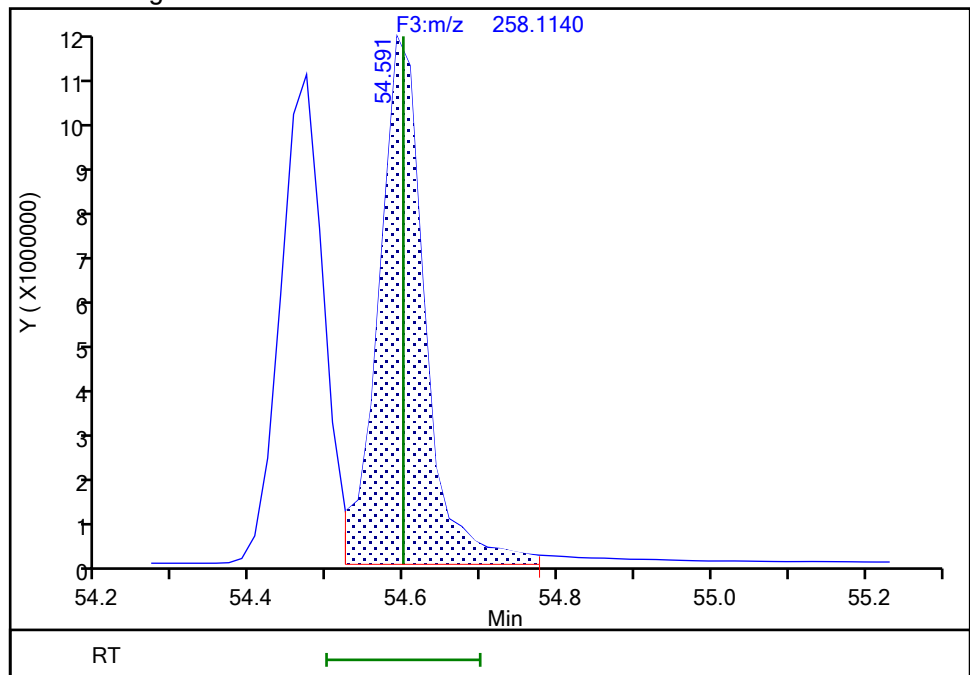
RT: 54.59
Area: 48674064
Amount: 8.180188
Amount Units: pg/ul

Processing Integration Results



RT: 54.59
Area: 48035899
Amount: 8.072937
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:26 -04:00:00 (UTC)

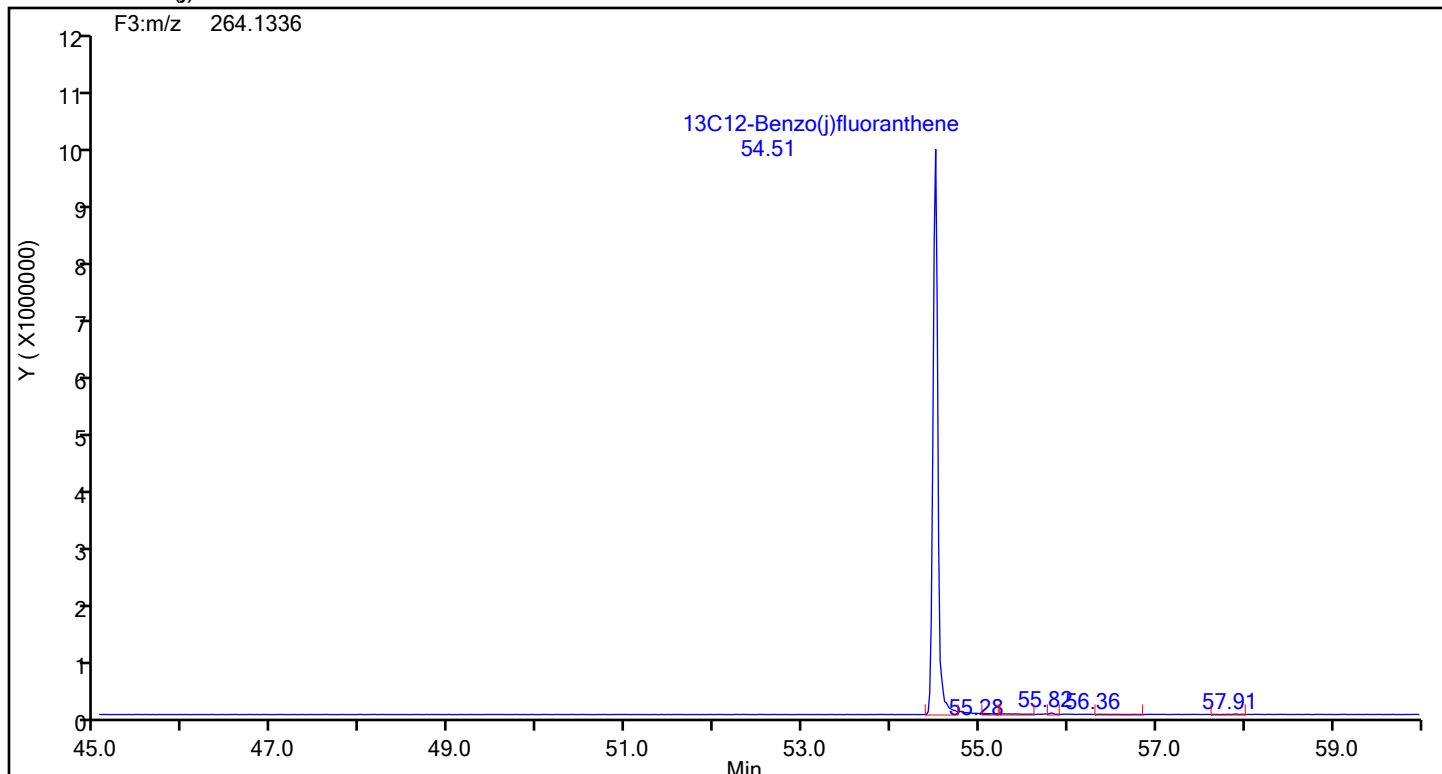
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

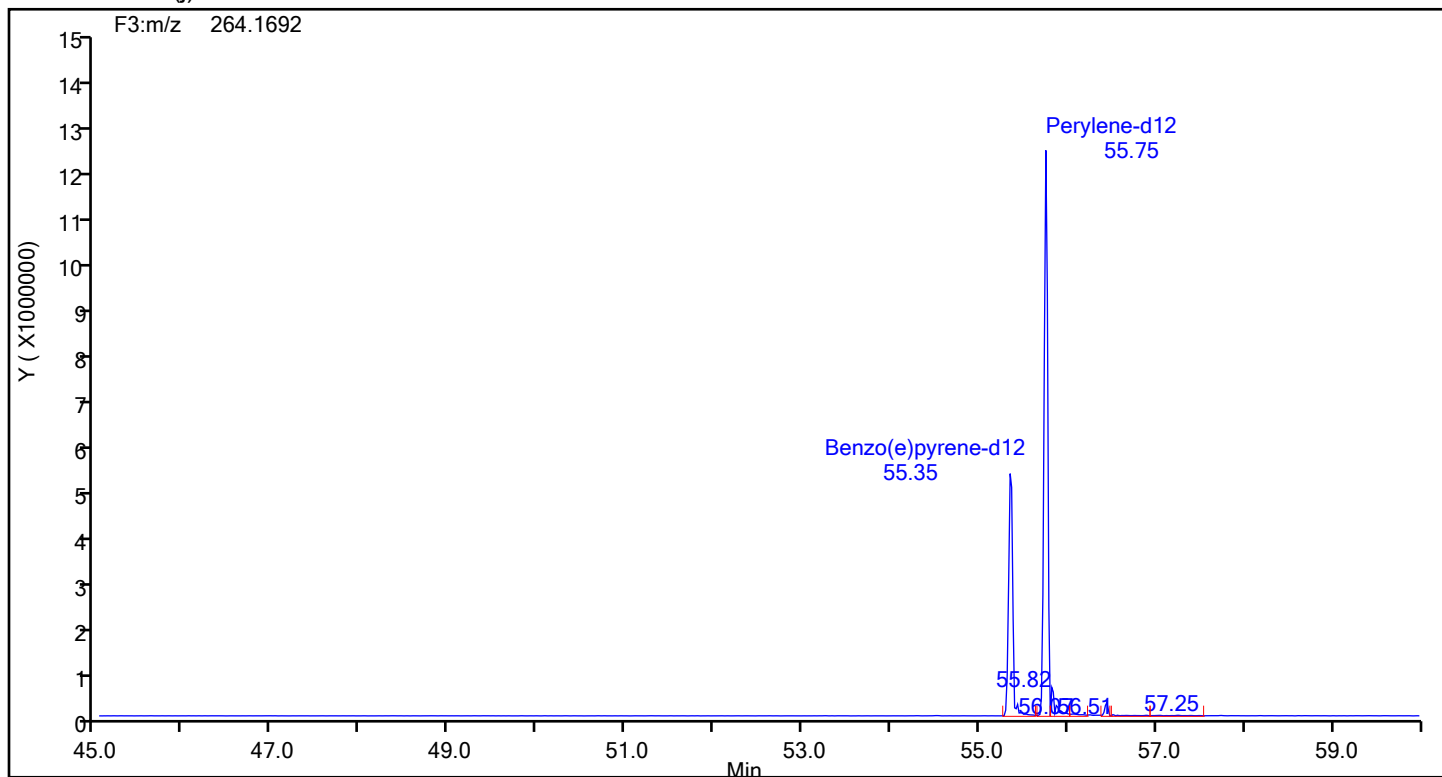
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



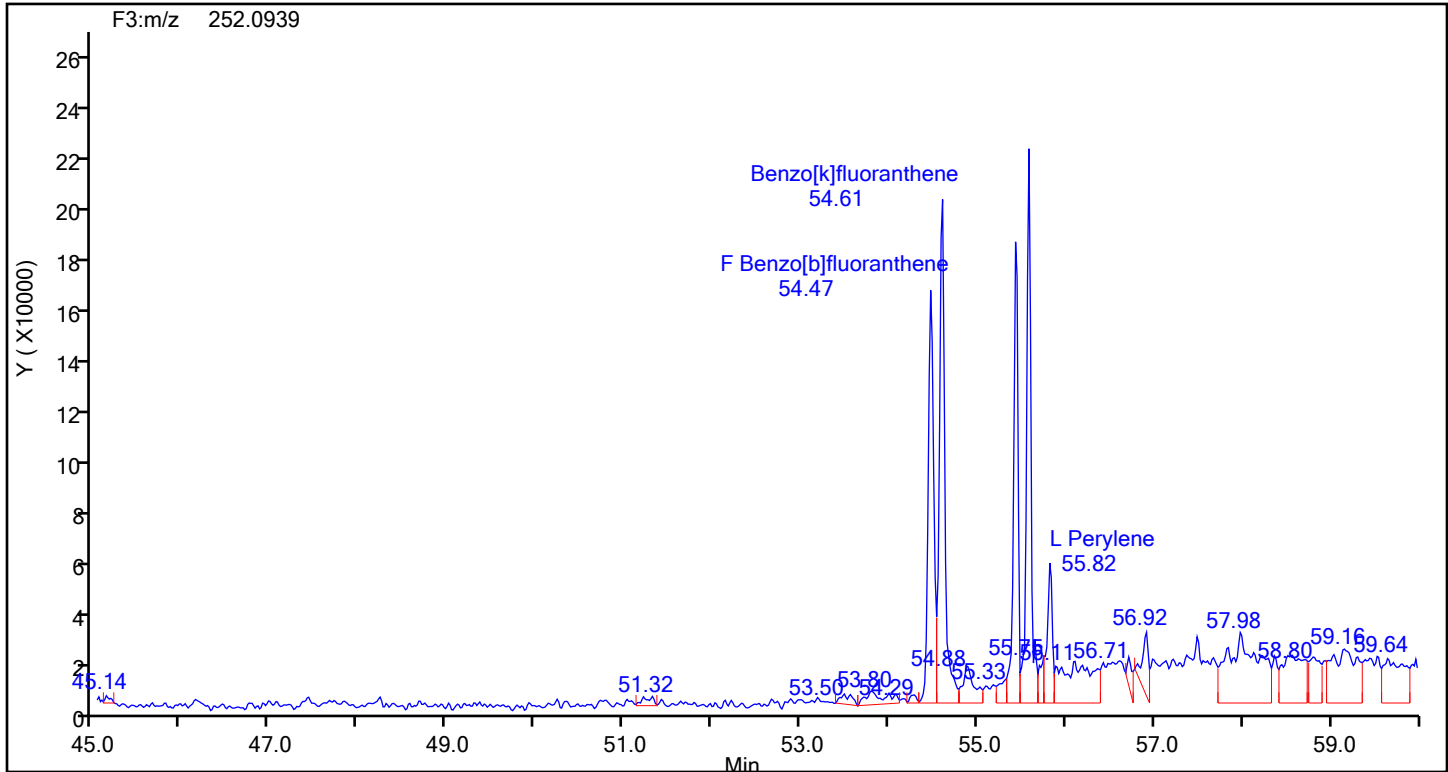
13C12-Benzo(j)fluoranthene Standards



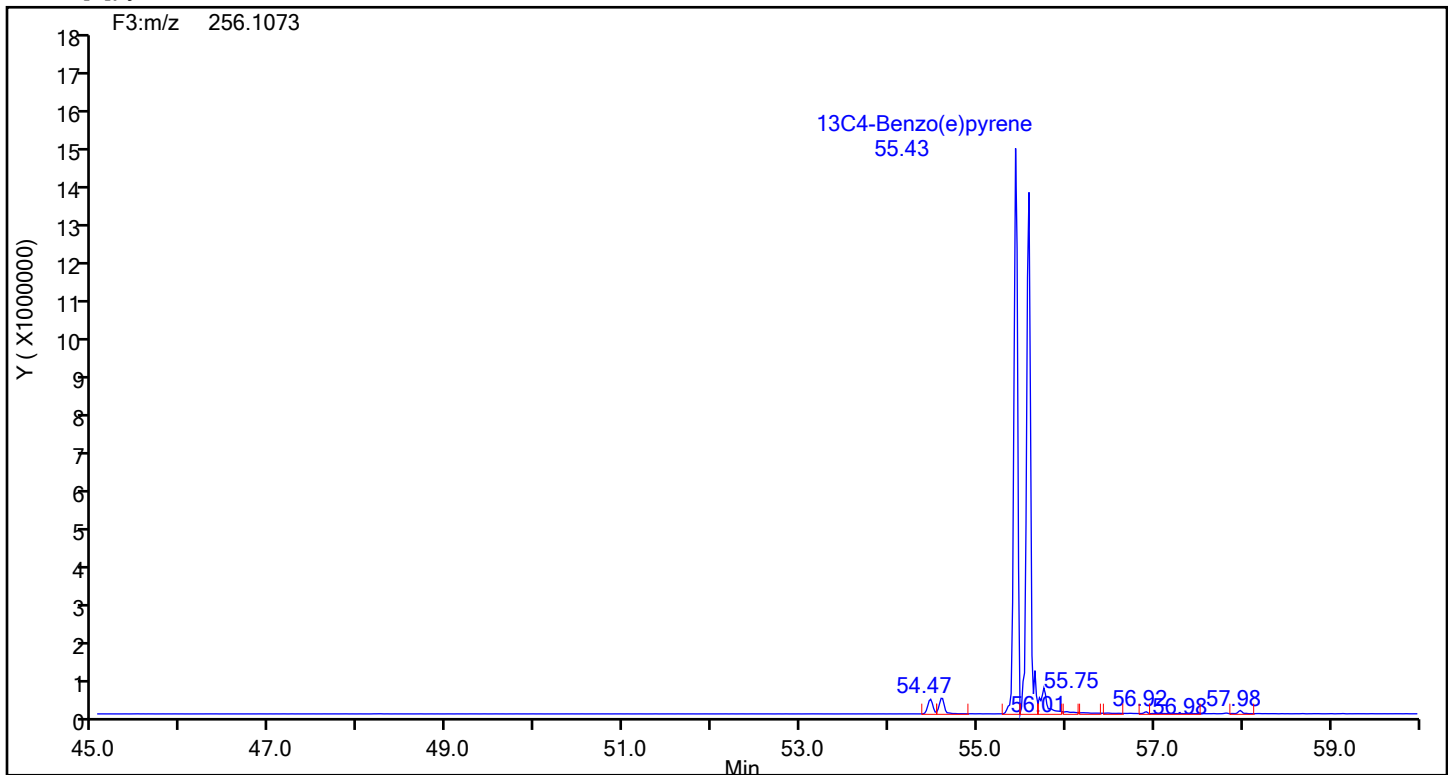
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

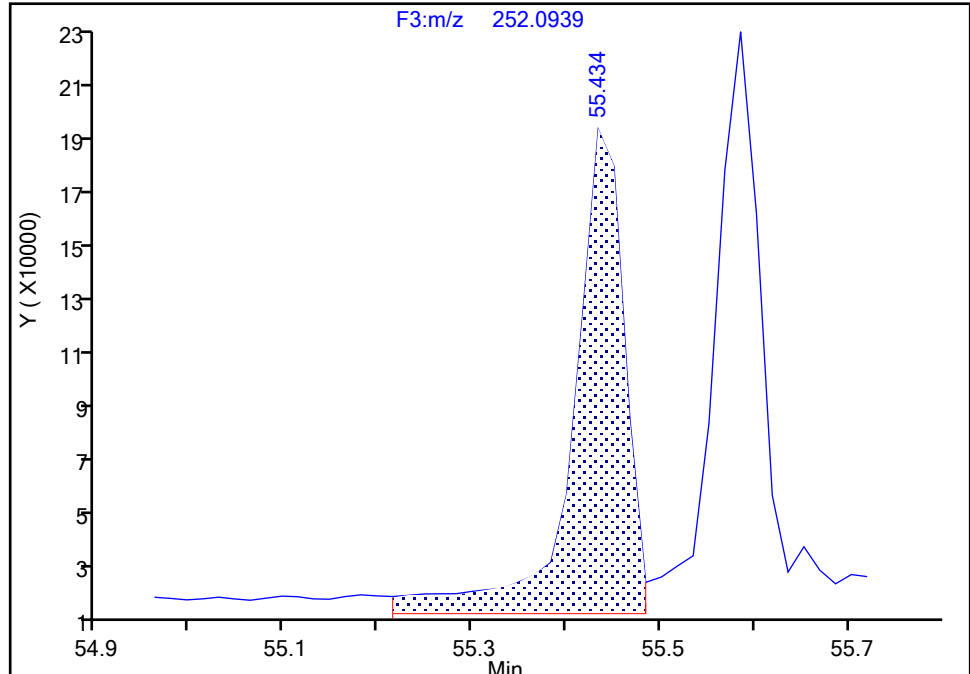
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

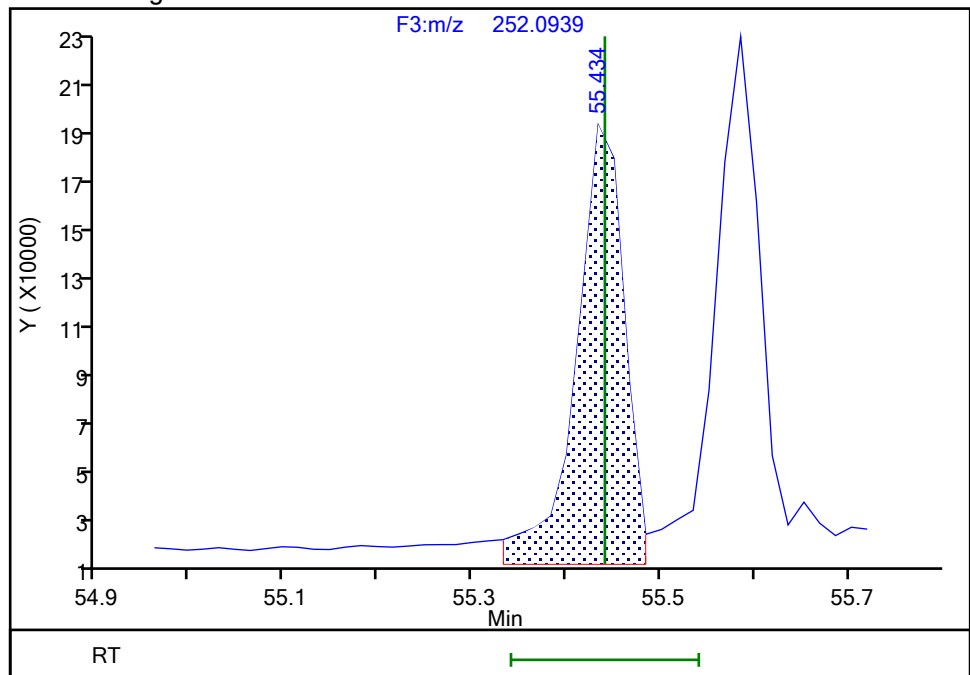
RT: 55.43
Area: 672382
Amount: 0.151273
Amount Units: pg/ul

Processing Integration Results



RT: 55.43
Area: 628326
Amount: 0.141361
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:11 -04:00:00 (UTC)

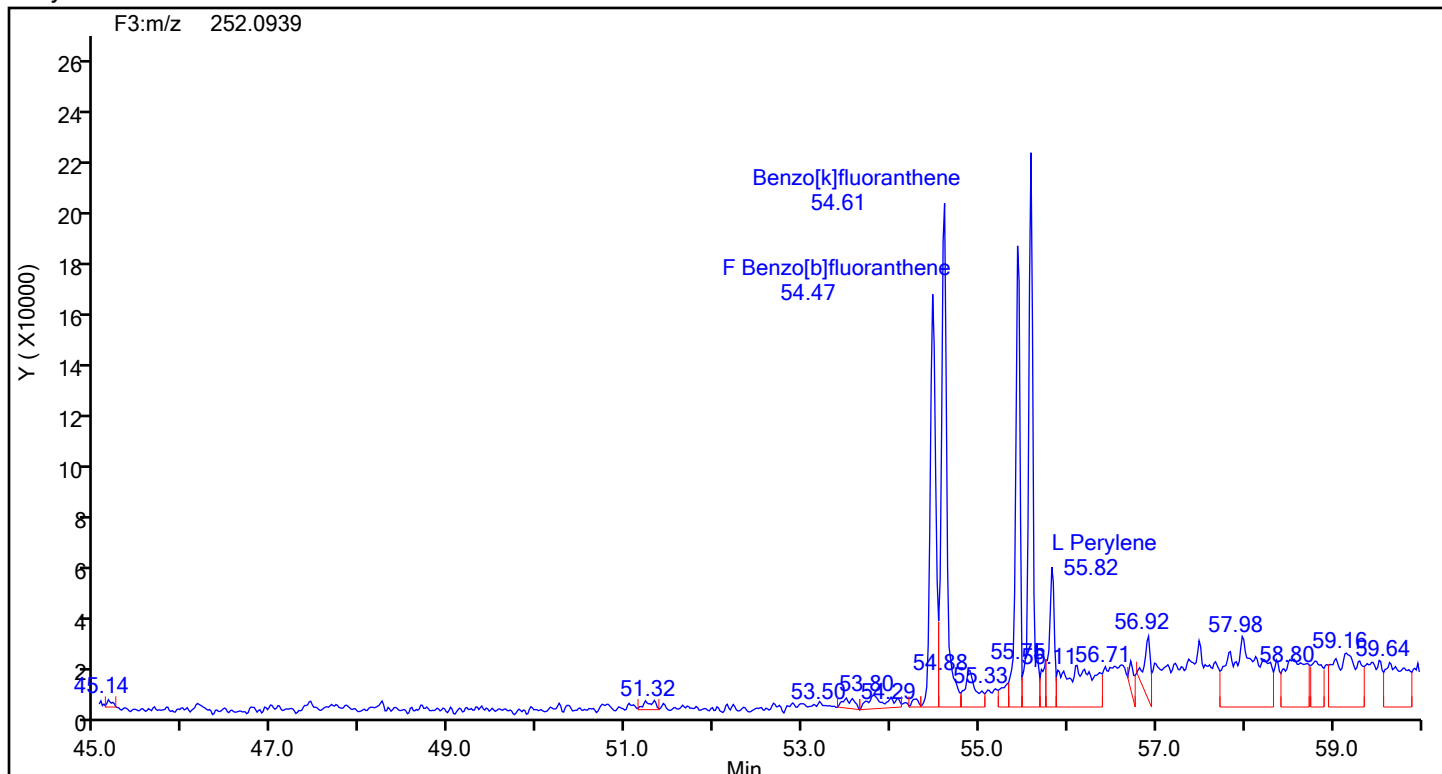
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

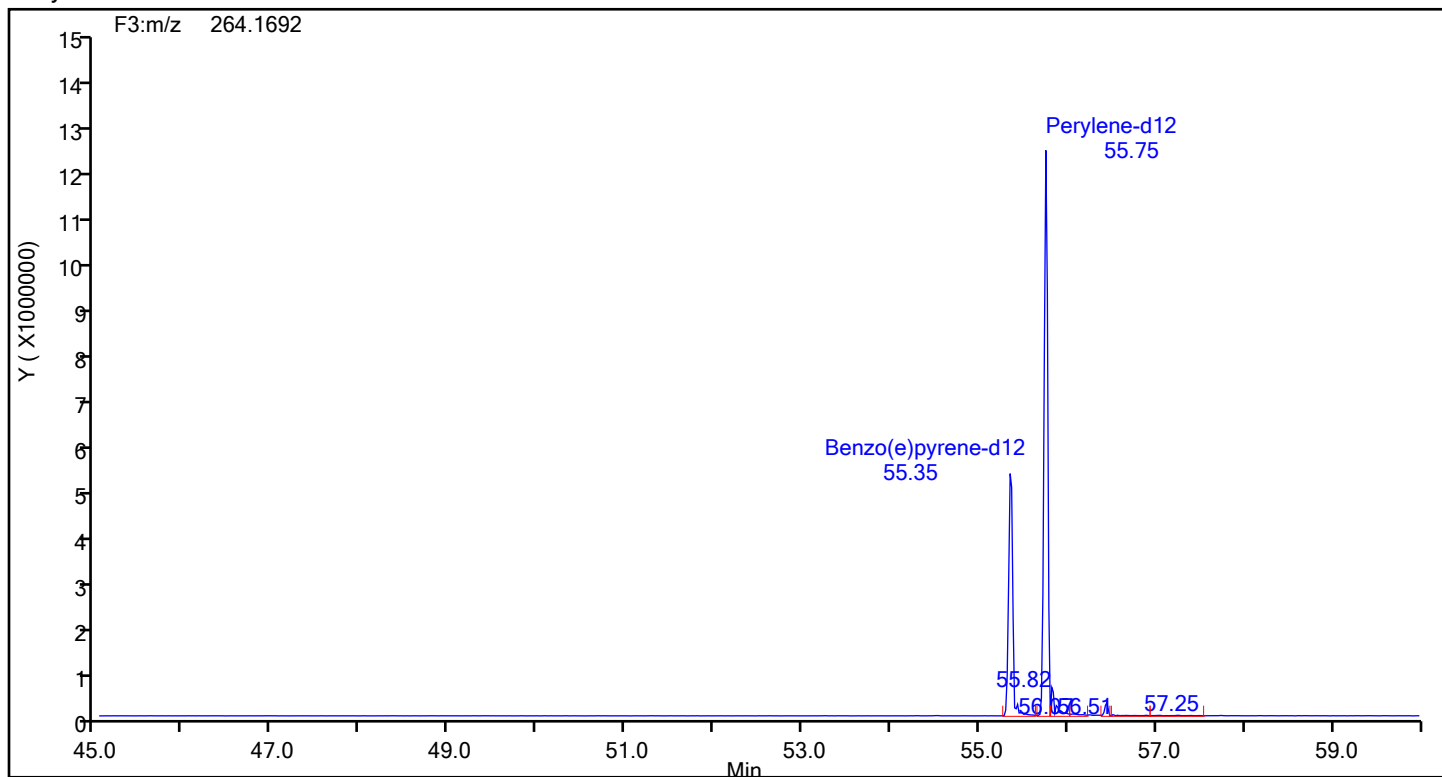
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

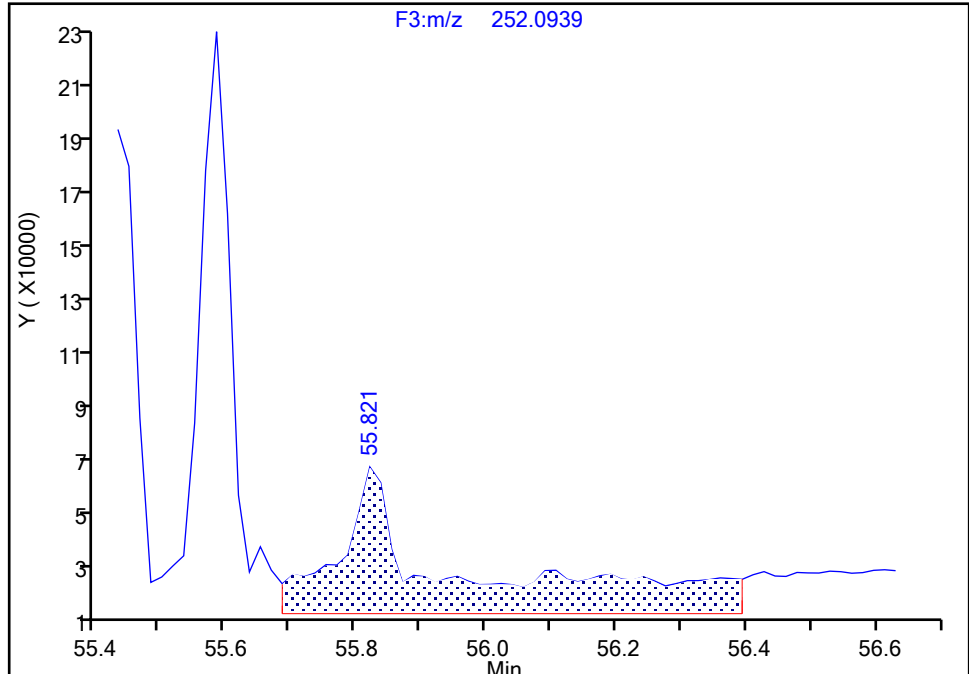
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

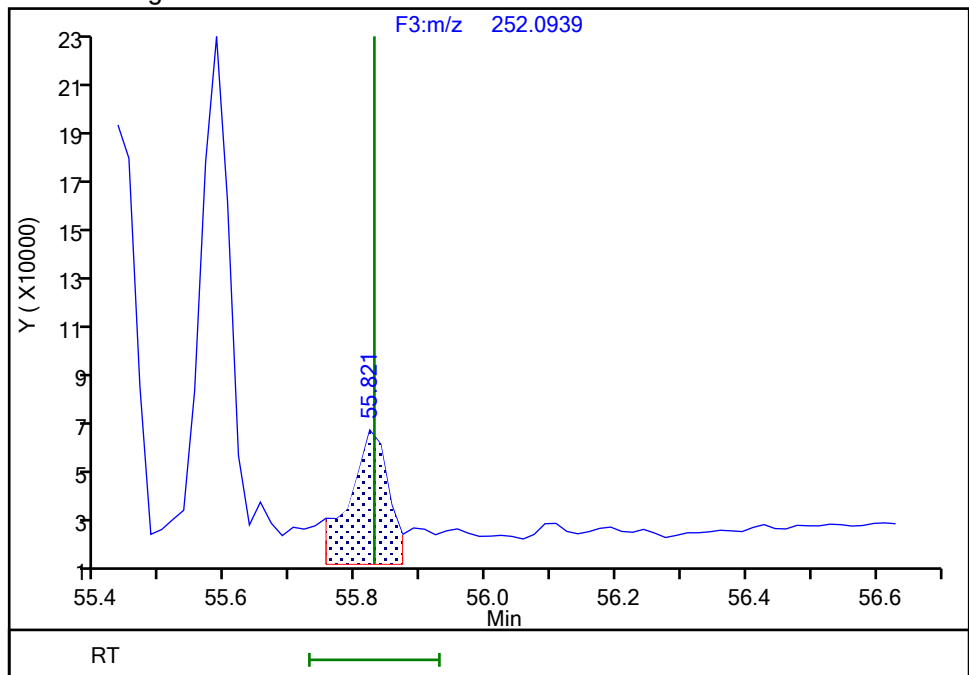
RT: 55.82
Area: 663337
Amount: 0.135150
Amount Units: pg/ul

Processing Integration Results



RT: 55.82
Area: 230994
Amount: 0.047063
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:48 -04:00:00 (UTC)

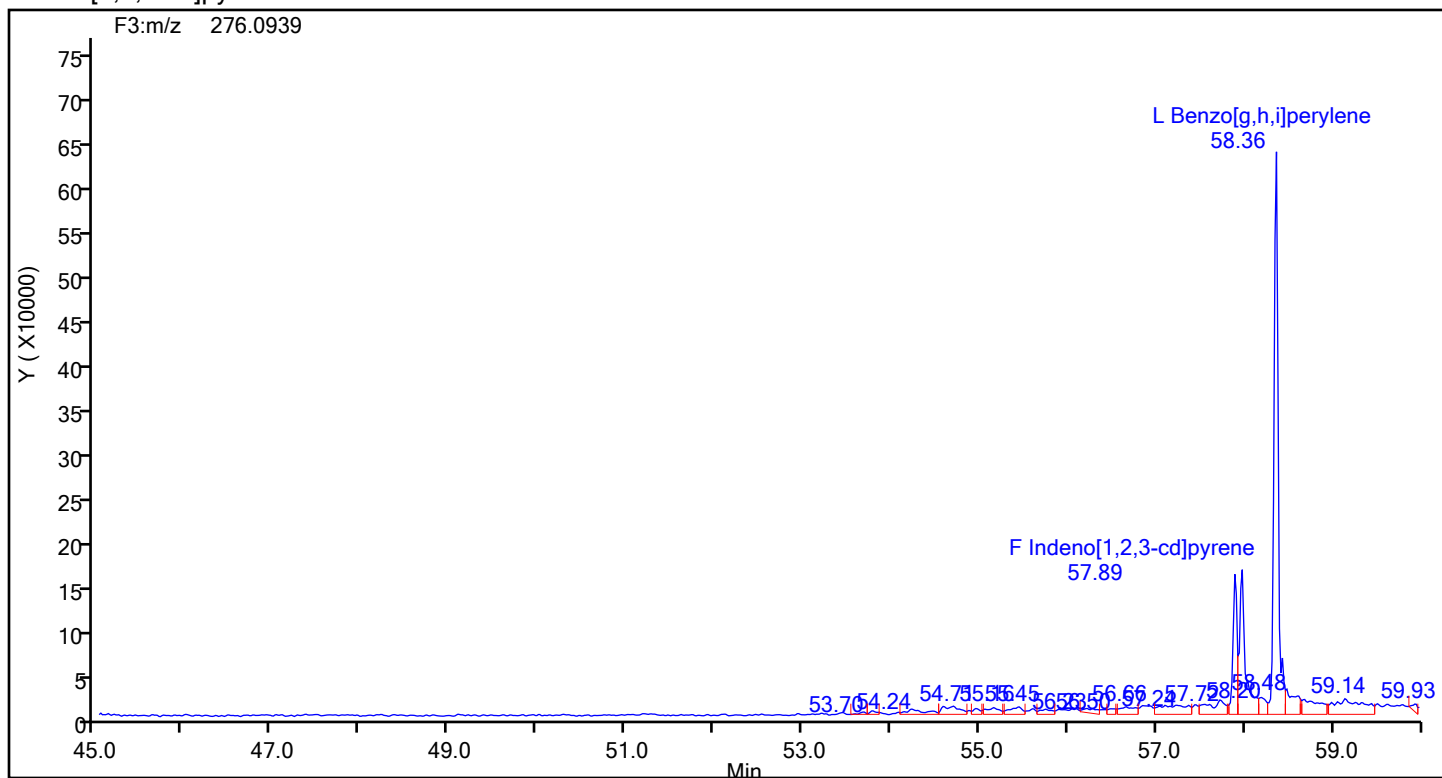
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

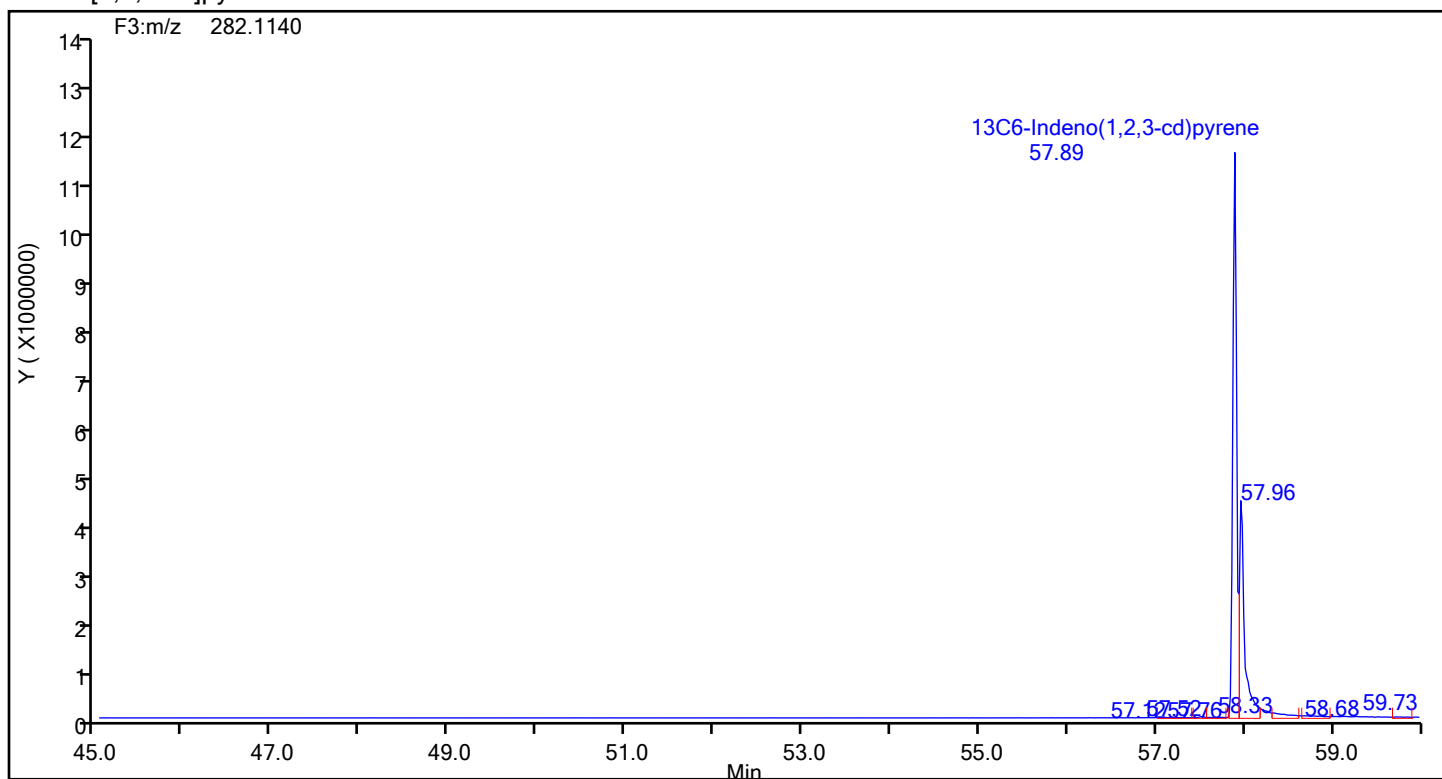
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

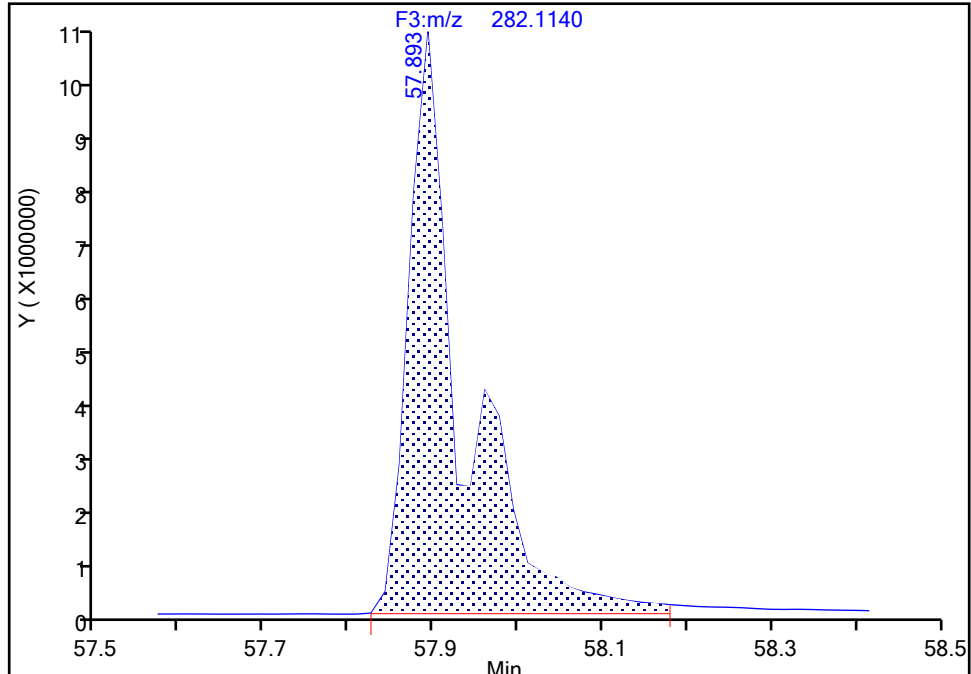
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

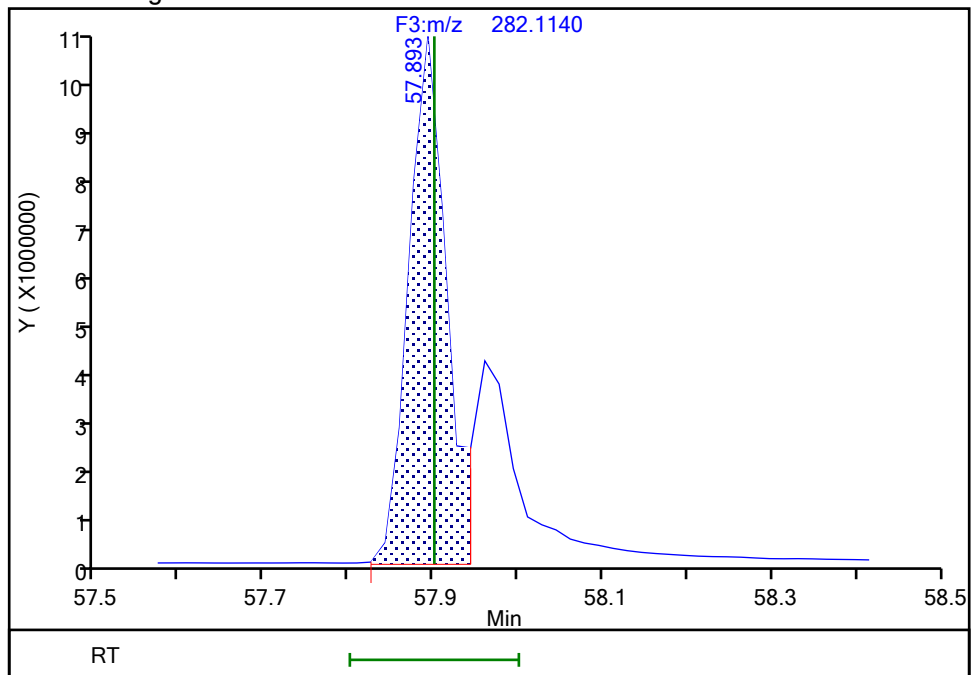
RT: 57.89
Area: 49086299
Amount: 14.133422
Amount Units: pg/ul

Processing Integration Results



RT: 57.89
Area: 34355165
Amount: 9.891885
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:16 -04:00:00 (UTC)

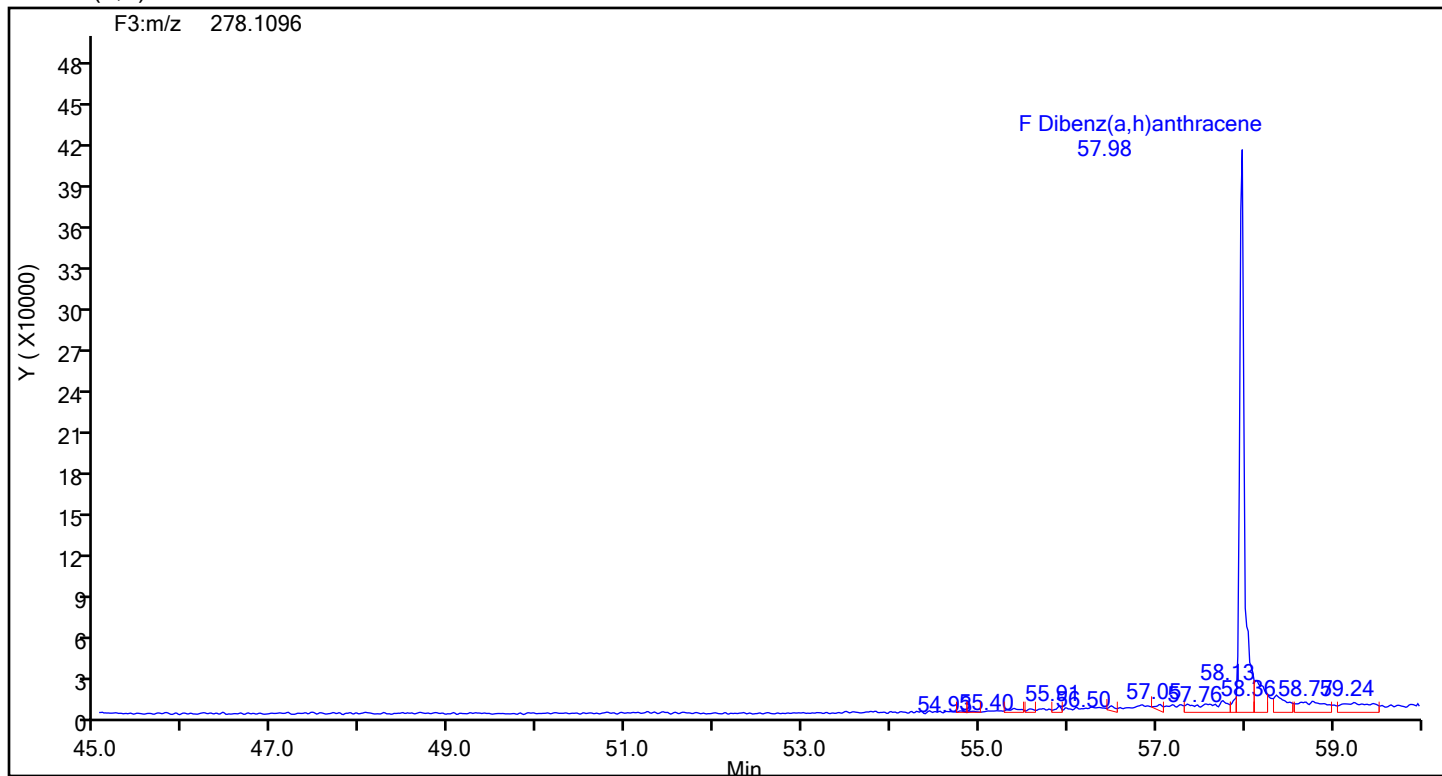
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

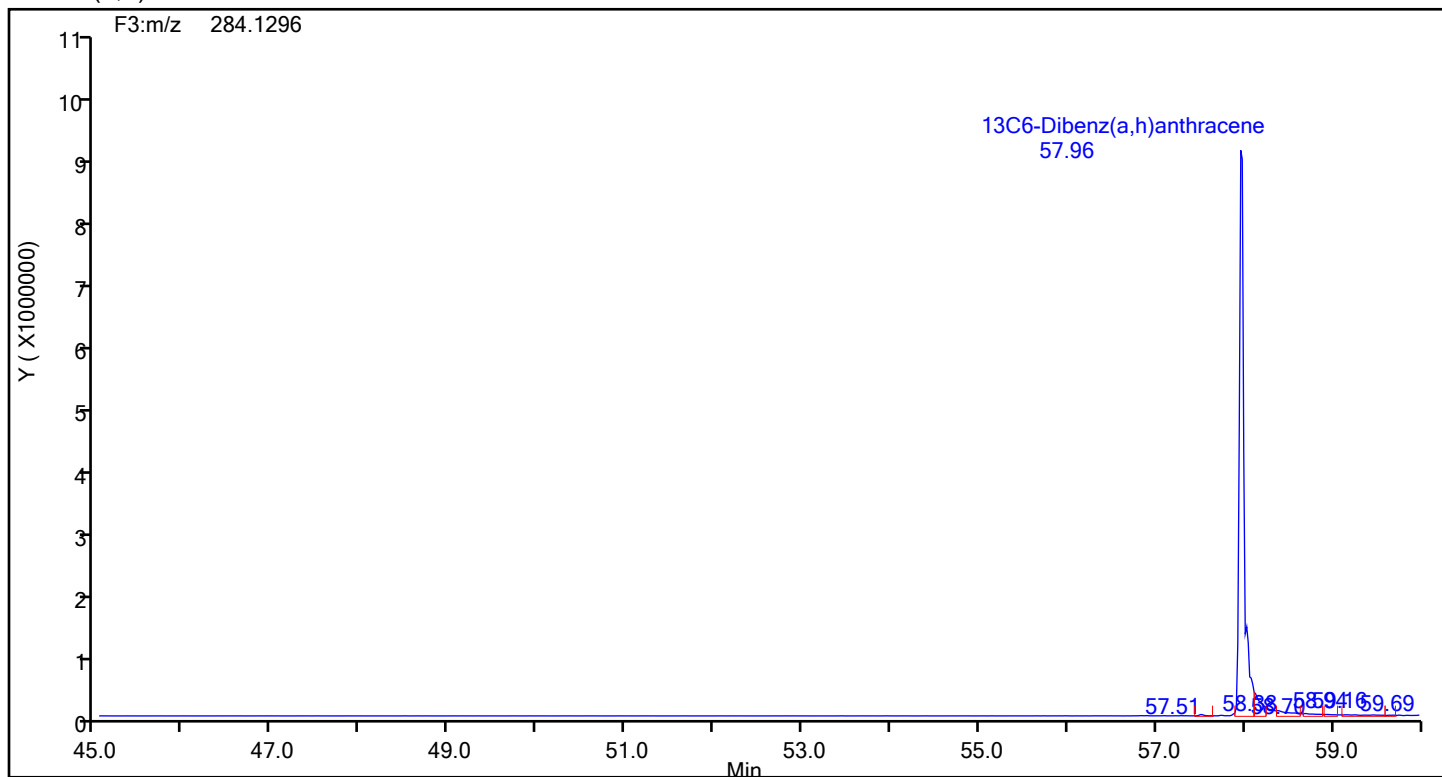
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88999 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

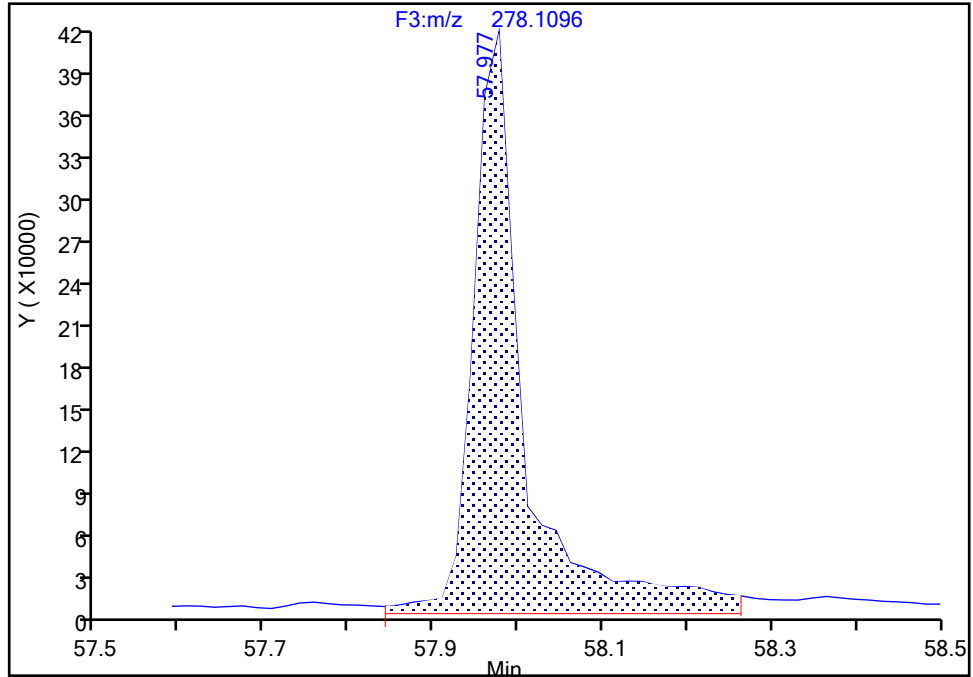
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

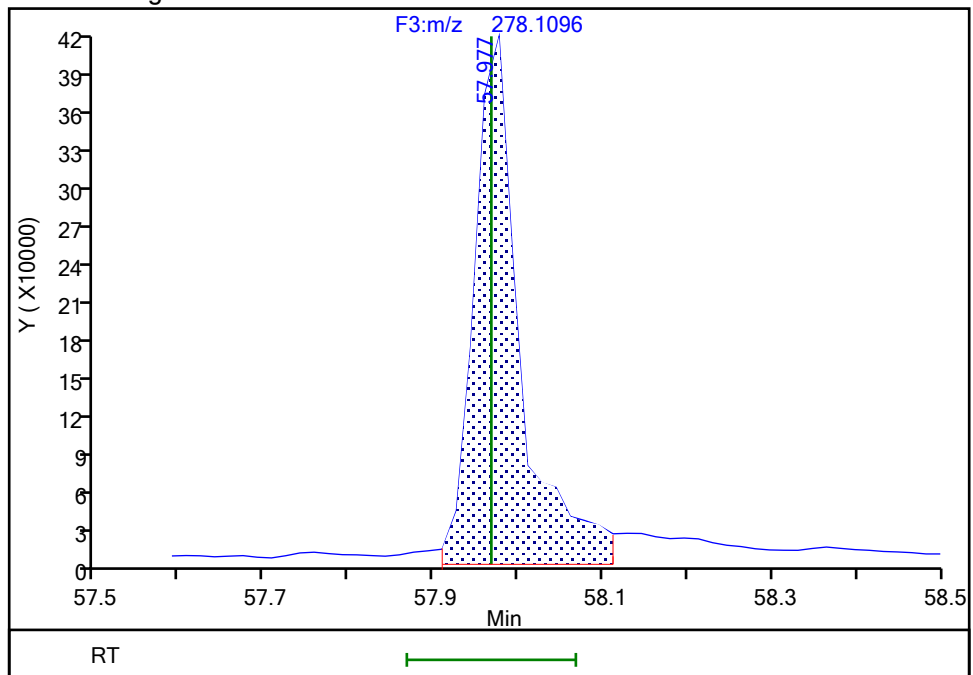
RT: 57.98
Area: 1760750
Amount: 0.465924
Amount Units: pg/ul

Processing Integration Results



RT: 57.98
Area: 1568856
Amount: 0.415146
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

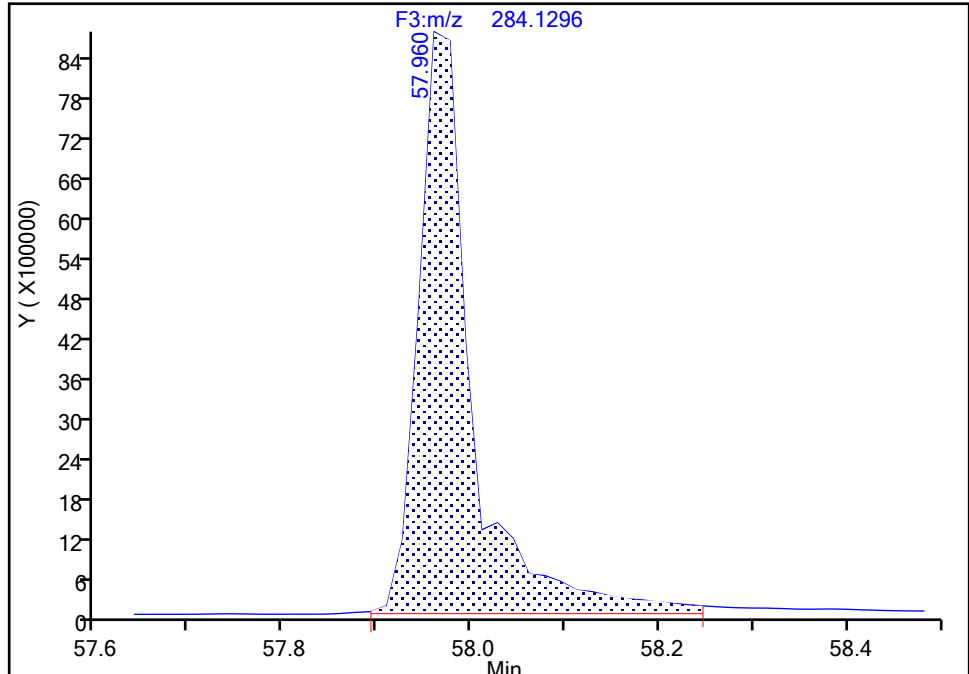
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

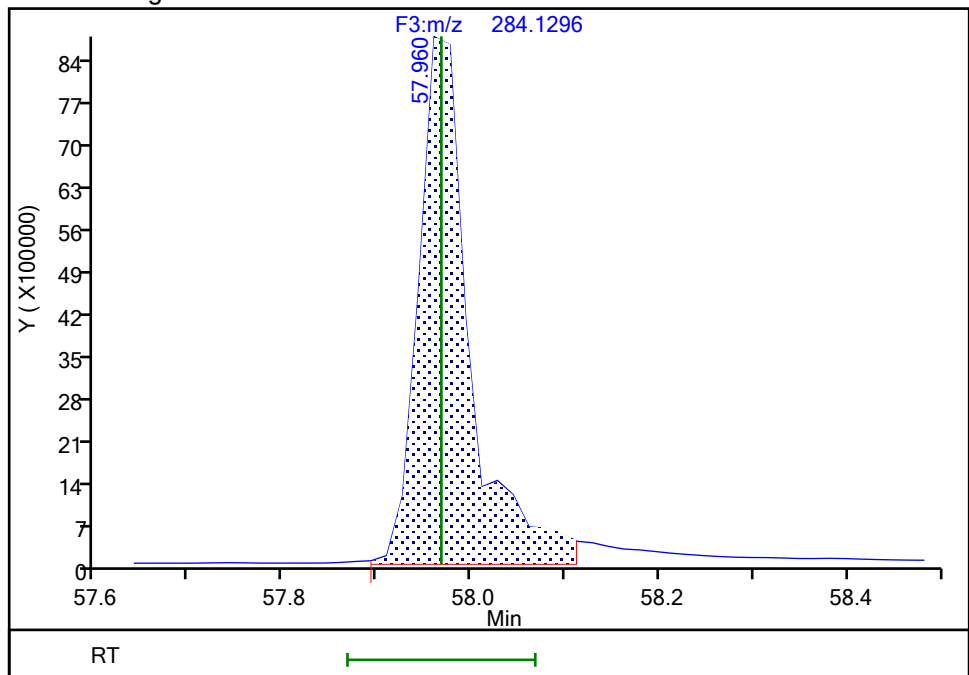
RT: 57.96
Area: 35052284
Amount: 9.772915
Amount Units: pg/ul

Processing Integration Results



RT: 57.96
Area: 33402285
Amount: 9.312879
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:32:05 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d

Injection Date: 20-Jul-2024 09:27:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

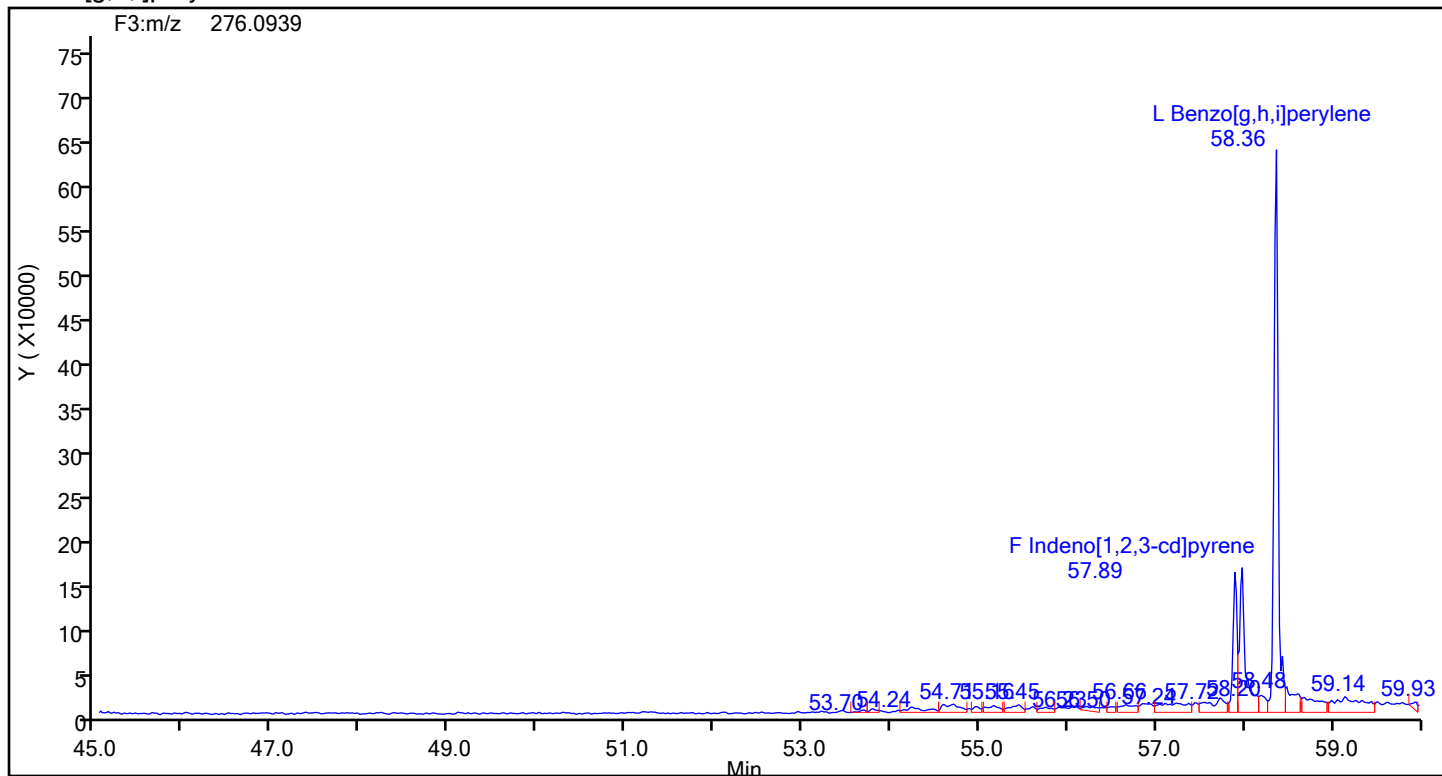
Worklist#: 88999

Sample Line#: 10

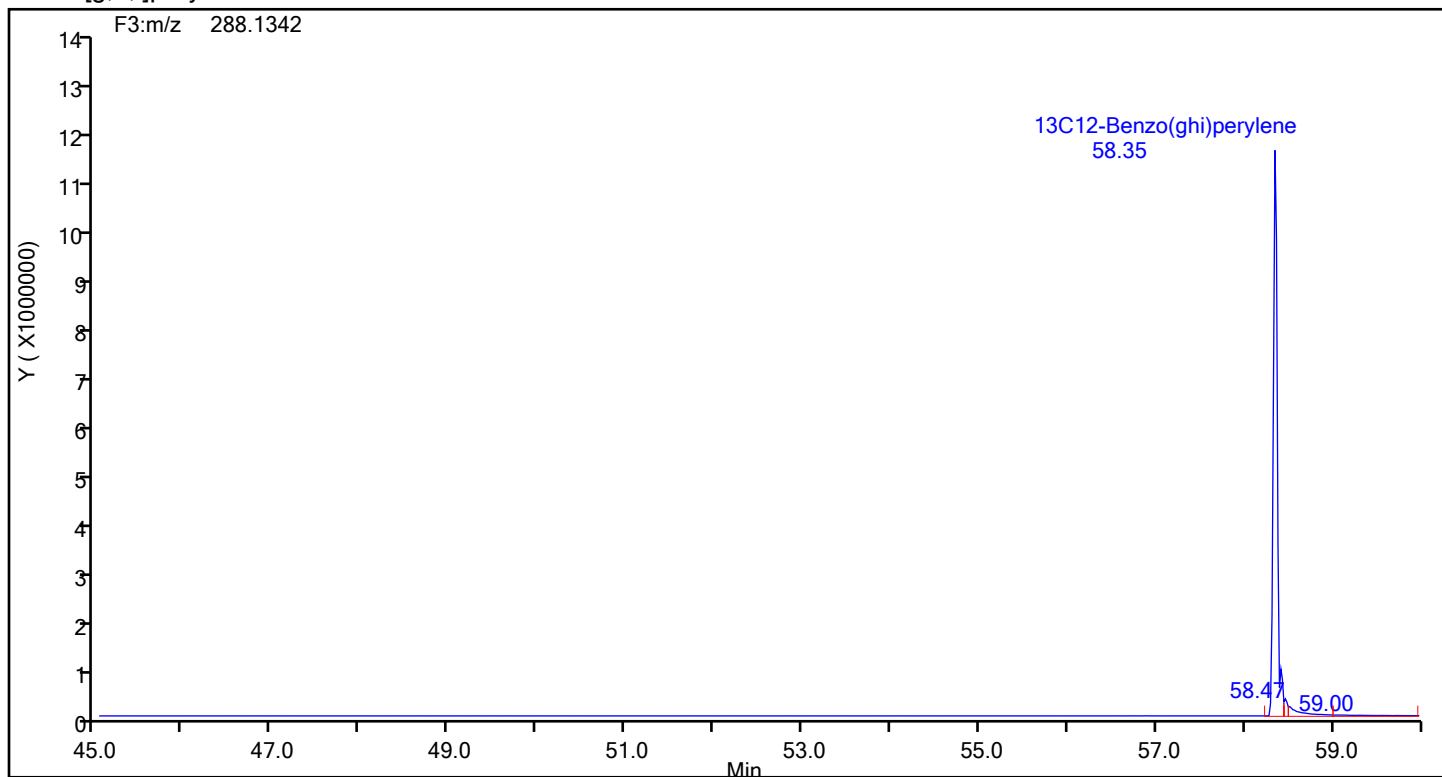
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

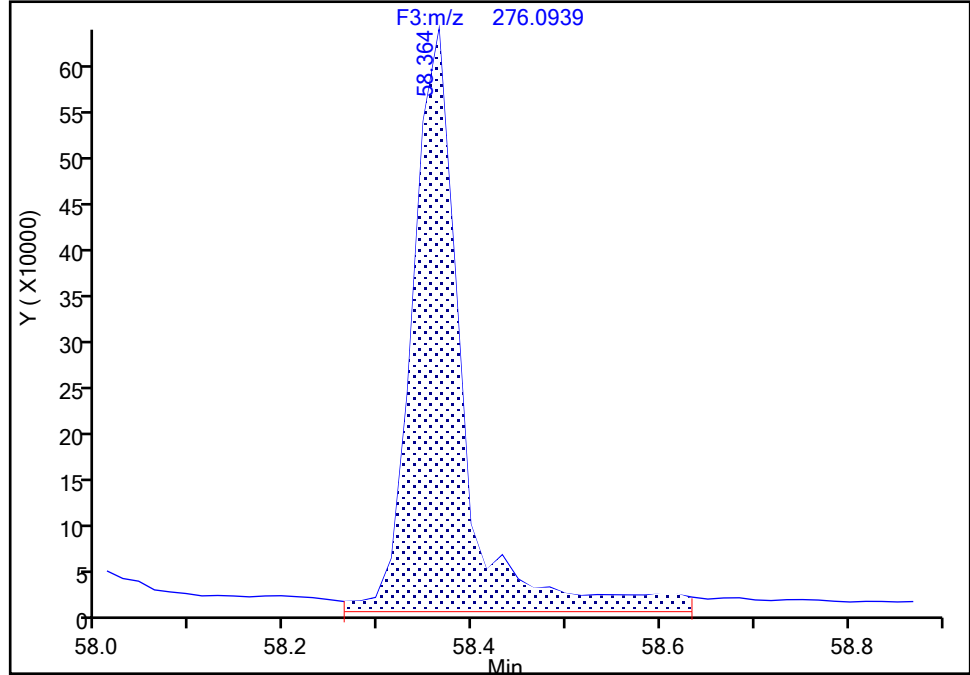
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

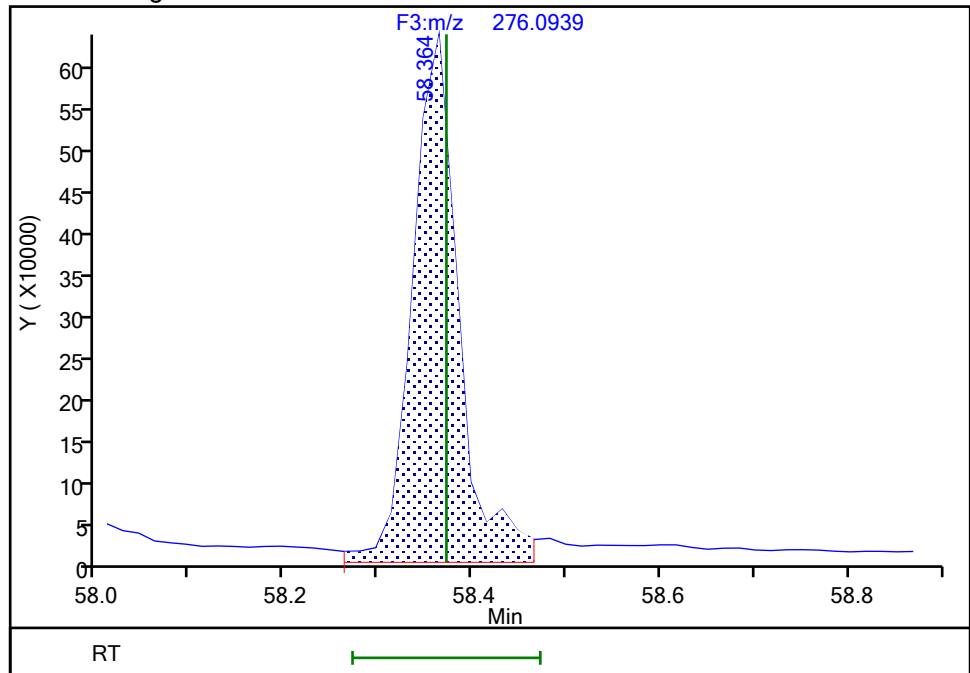
RT: 58.36
Area: 2333082
Amount: 0.495597
Amount Units: pg/ul

Processing Integration Results



RT: 58.36
Area: 2148359
Amount: 0.465446
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

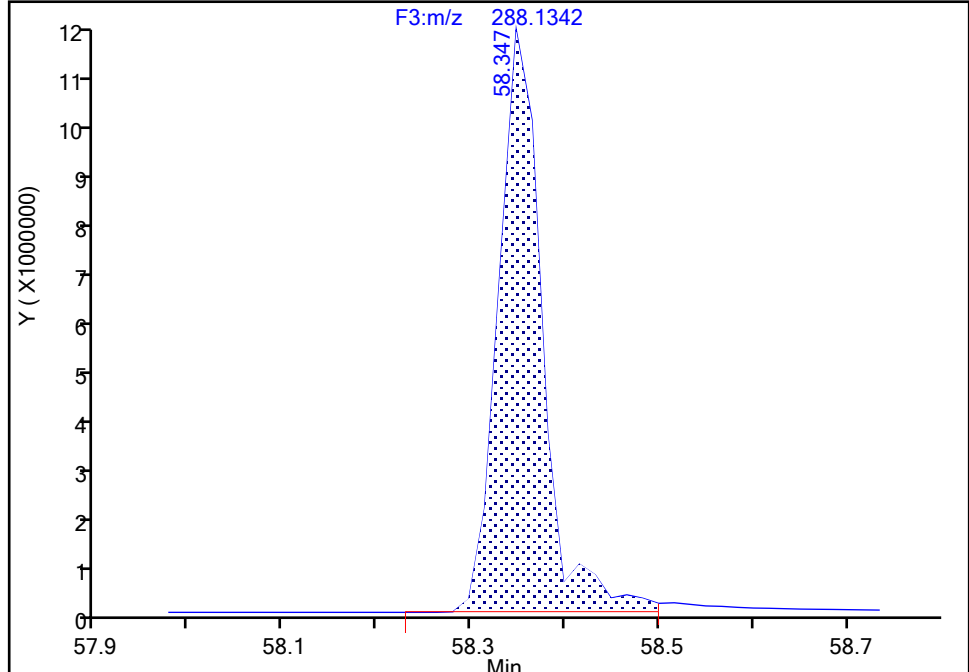
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Injection Date: 20-Jul-2024 09:27:00 Instrument ID: D3PAH
Lims ID: 140-37232-A-8-C Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

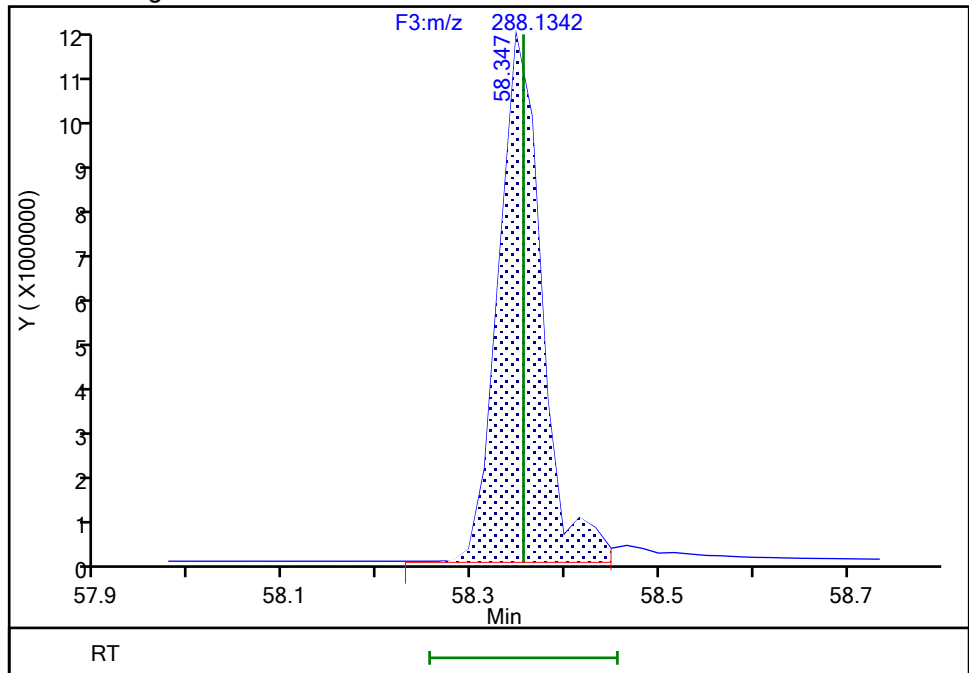
RT: 58.35
Area: 36670704
Amount: 8.462967
Amount Units: pg/ul

Processing Integration Results



RT: 58.35
Area: 35954669
Amount: 8.297718
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 11:33:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\140-37232-a-8-c.d
Lims ID: 140-37232-A-8-C
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Sample Type: Client
Inject. Date: 20-Jul-2024 09:27:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info:
Misc. Info.: 140-0033591-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 11:33:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 11:33:46

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.8826	88.26
13C6-Benzo(c)fluorene	100.0	9.64	96.42
13C12-Benzo(j)fluoranthene	100.0	8.20	82.03

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2232,A-2233 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-37232-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-b-14-c_2024071915040</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 15:05</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	44.9	J B * +	75.0	75.0	0.0621
91-57-6	2-Methylnaphthalene	20.1	J B	75.0	75.0	0.0576
208-96-8	Acenaphthylene	0.248	J B	3.00	3.00	0.0375
83-32-9	Acenaphthene	8.17	J B	30.0	30.0	0.0661
86-73-7	Fluorene	5.42	J B	30.0	30.0	0.0679
85-01-8	Phenanthrene	9.99	B	6.00	6.00	0.0811
120-12-7	Anthracene	0.819	J B	30.0	30.0	0.0686
206-44-0	Fluoranthene	2.09	J B	6.00	6.00	0.0144
129-00-0	Pyrene	3.23	J B	6.00	6.00	0.0132
56-55-3	Benzo[a]anthracene	0.0840	J B	6.00	6.00	0.0129
218-01-9	Chrysene	1.07	J B	6.00	6.00	0.0126
205-99-2	Benzo[b]fluoranthene	0.277	J B	30.0	30.0	0.00563
207-08-9	Benzo[k]fluoranthene	0.177	J B	6.00	6.00	0.00531
192-97-2	Benzo[e]pyrene	0.384	J B	6.00	6.00	0.00459
50-32-8	Benzo[a]pyrene	0.157	J B	3.00	3.00	0.00453
198-55-0	Perylene	0.141	J B	3.00	3.00	0.00394
193-39-5	Indeno[1,2,3-cd]pyrene	0.245	J B	3.00	3.00	0.00456
53-70-3	Dibenz(a,h)anthracene	0.270	J B	6.00	6.00	0.00394
191-24-2	Benzo[g,h,i]perylene	0.300	J B	6.00	6.00	0.00359

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2232,A-2233 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-37232-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-b-14-c_2024071915040</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 15:05</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88978</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	65		20-130
STL03357	13C6-2-Methylnaphthalene	63		20-130
189811-56-1	13C6-Acenaphthylene	85		20-130
189811-57-2	13C6-Acenaphthene	78		20-130
STL00616	13C6-Fluorene	90		20-130
1397194-60-3	13C6-Fluoranthrene	59		20-130
1397214-90-2	13C3-Pyrene	61		20-130
917378-11-1	13C6-Benzo (a) anthracene	40		20-130
1397177-72-8	13C6-Chrysene	40		20-130
STL03358	13C6-Benzo (b) fluoranthene	59		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	57		20-130
STL03382	13C4-Benzo (e) pyrene	58		20-130
STL03359	13C4-Benzo (a) pyrene	58		20-130
1520-96-3	Perylene-d12	61		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	50		20-130
STL03360	13C6-Dibenz (a,h) anthracene	48		20-130
350820-11-0	13C12-Benzo (ghi) perylene	46		20-130
189811-60-7	13C6-Anthracene	33		20-130
1189955-53-0	13C6-Phenanthrene	29		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Lims ID: 140-37232-B-14-C
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 19-Jul-2024 15:05:00 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033585-015
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 08:59:53 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 08:59:53

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	22186336		3.3746	64.8	64.8	0.008991	0.008991	64.82	
Naphthalene	11:25	8555876		1.2893	29.9	29.9	0.0414	0.0414		
D 13C6-2-Methylnaphthalene	13:47	10172115		1.6031	62.6	62.6	0.0230	0.0230	62.56	
2-Methylnaphthalene	13:47	1745389		1.2786	13.4	13.4	0.0384	0.0384		
D 13C6-Acenaphthylene	16:39	14281327		1.6520	85.2	85.2	0.003989	0.003989	85.23	
Acenaphthylene	16:39	30316		2.3661	0.1656	0.1656	0.0250	0.0250		
* Acenaphthene-d10	17:13	5071513		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:20	7736552		0.9792	77.9	77.9	0.006358	0.006358	77.90	
Acenaphthene	17:21	534918		1.2697	5.446	5.446	0.0440	0.0440		
Fluorene	19:37	365757		1.2532	3.613	3.613	0.0453	0.0453		M
D 13C6-Fluorene	19:37	8078895		0.8898	89.5	89.5	0.002584	0.002584	89.51	
D 13C6-Phenanthrene	24:58	13425221		0.5724	29.0	29.0	0.002510	0.002510	29.02	M
Phenanthrene	24:58	987296		1.1044	6.659	6.659	0.0541	0.0541		M
\$ Anthracin-d10	25:07	11167013		0.4257	32.5	32.5	0.000402	0.000402		
D 13C6-Anthracene	25:14	12230233		0.4523	33.5	33.5	0.003176	0.003176	33.45	M
Anthracene	25:12	90668		1.3586	0.5457	0.5457	0.0458	0.0458		M
D 13C6-Fluoranthrene	33:41	57337852		1.1994	59.2	59.2	0.005903	0.005903	59.15	
Fluoranthene	33:42	917687		1.1513	1.390	1.390	0.009596	0.009596		
* Pyrene-d10	35:14	40409295		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:23	66706040		1.3512	61.1	61.1	0.004921	0.004921	61.08	
Pyrene	35:23	1532144		1.0652	2.156	2.156	0.008768	0.008768		
\$ 13C6-Benzo(c)fluorene	39:04	15065642		0.5136	36.3	36.3	0.002091	0.002091		
D 13C6-Benzo(a)anthracene	45:53	52819278		1.5189	39.8	39.8	0.003687	0.003687	39.84	
Benzo[a]anthracene	45:53	28822		0.9739	0.0560	0.0560	0.008573	0.008573		
D 13C6-Chrysene	46:09	57530818		1.6287	40.5	40.5	0.003438	0.003438	40.47	
Chrysene	46:11	403021		0.9815	0.7138	0.7138	0.008390	0.008390		
D 13C6-Benzo(b)fluoranthene	54:31	75056137		1.4621	58.8	58.8	0.000515	0.000515	58.82	
Benzo[b]fluoranthene	54:31	155734		1.1249	0.1845	0.1845	0.003756	0.003756		Ma
\$ 13C12-Benzo(j)fluoranthene	54:33	35321609		1.3558	29.8	29.8	0.003078	0.003078		
D 13C6-Benzo(k)fluoranthene	54:39	87445182		1.7507	57.2	57.2	0.000430	0.000430	57.23	
Benzo[k]fluoranthene	54:39	116289		1.1271	0.1180	0.1180	0.003542	0.003542		M
* Benzo(e)pyrene-d12	55:23	43638145		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:28	82972748		1.6368	58.1	58.1	0.001143	0.001143	58.08	
Benzo[e]pyrene	55:28	212436		1.0013	0.2557	0.2557	0.003058	0.003058		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	78902157		1.5508	58.3	58.3	0.001207	0.001207	58.30	
Benzo[a]pyrene	55:37	92152		1.1130	0.1049	0.1049	0.003022	0.003022		M
D Perylene-d12	55:48	63595932		1.1917	61.1	61.1	0.003192	0.003192	61.15	
Perylene	55:52	85565		1.4307	0.0940	0.0940	0.002629	0.002629		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	44197195		1.0218	49.6	49.6	0.002467	0.002467	49.56	
Indeno[1,2,3-cd]pyrene	57:56	81112		1.1249	0.1631	0.1631	0.003043	0.003043		M
D 13C6-Dibenz(a,h)anthracene	58:00	44626872		1.0553	48.5	48.5	0.002097	0.002097	48.45	
Dibenz(a,h)anthracene	58:00	91017		1.1314	0.1803	0.1803	0.002629	0.002629		M
D 13C12-Benzo(ghi)perylene	58:23	51196307		1.2749	46.0	46.0	0.000381	0.000381	46.01	
Benzo[g,h,i]perylene	58:24	131558		1.2838	0.2002	0.2002	0.002394	0.002394		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Lims ID: 140-37232-B-14-C
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 19-Jul-2024 15:05:00 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033585-015
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 08:59:53 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 08:59:53

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:27	-2	0.662	22186336	7680597	433	1082	17738		
Naphthalene											
128.0626	11:25	11:27	-2	1.001	8555876	2752852	1639	4097	1680		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:49	-2	0.800	10172115	4761393	527	1317	9035		
2-Methylnaphthalene											
142.0783	13:47	13:49	-2	1.000	1745389	792303	935	2337	847		
13C6-Acenaphthylene											
158.0828	16:39	16:40	-1	0.967	14281327	4722535	94	235	50240		
Acenaphthylene											
152.0626	16:39	16:40	0	1.000	30316	9681	612	1530	16		
Acenaphthene-d10											
164.1404	17:13	17:14	-1		5071513	1783099	9	22	198122		
13C6-Acenaphthene											
160.0984	17:20	17:21	-1	1.007	7736552	2587597	89	222	29074		
Acenaphthene											
154.0783	17:21	17:22	-1	1.001	534918	180859	579	1447	312		
Fluorene											
166.0783	19:37	19:37	-1	1.000	365757	100573	496	1240	203		M
13C6-Fluorene											
172.0984	19:37	19:38	-1	1.139	8078895	2185864	33	82	66238		
13C6-Phenanthrene											
184.0984	24:58	24:58	-1	0.709	13425221	2673925	84	210	31832		M
Phenanthrene											
178.0783	24:58	24:58	-1	1.000	987296	205779	639	1597	322		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:07	25:12	-5	0.713	11167013	2175538	10	25	217554		
13C6-Anthracene											
184.0984	25:14	25:14	-5	0.716	12230233	2569102	84	210	30585		M
Anthracene											
178.0783	25:12	25:12	-7	0.999	90668	16374	639	1597	26		M
13C6-Fluoranthrene											
208.0984	33:41	33:42	-1	0.956	57337852	10382318	414	1035	25078		
Fluoranthene											
202.0783	33:42	33:43	-1	1.000	917687	165705	459	1147	361		
Pyrene-d10											
212.1404	35:14	35:15	-1		40409295	7309136	62	155	117889		
13C3-Pyrene											
205.0883	35:23	35:24	-1	1.004	66706040	12280903	389	972	31570		
Pyrene											
202.0783	35:23	35:24	-1	1.000	1532144	269334	459	1147	587		
13C6-Benzo(c)fluorene											
222.1134	39:04	39:05	-1	0.705	15065642	2637467	63	157	41865		
13C6-Benzo(a)anthracene											
234.1140	45:53	45:55	-1	1.302	52819278	9187259	655	1637	14026		
Benzo[a]anthracene											
228.0939	45:53	45:55	-1	1.000	28822	5086	307	767	17		
13C6-Chrysene											
234.1140	46:09	46:11	-1	1.310	57530818	9314952	655	1637	14221		
Chrysene											
228.0939	46:11	46:11	0	1.000	403021	63273	307	767	206		
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:32	-1	0.984	75056137	20352459	88	220	231278		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	-1	1.000	155734	39018	344	860	113		Ma
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:34	-1	0.985	35321609	9257726	488	1220	18971		M
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.987	87445182	21544395	88	220	244823		
Benzo[k]fluoranthene											
252.0939	54:39	54:39	-1	1.000	116289	29614	344	860	86		M
Benzo(e)pyrene-d12											
264.1692	55:23	55:25	-1		43638145	14615815	445	1112	32845		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:30	-1	1.002	82972748	28087509	219	547	128254		
Benzo[e]pyrene											
252.0939	55:28	55:30	-1	1.000	212436	63099	344	860	183		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:38	0	1.004	78902157	25564299	219	547	116732		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:37	55:37	-1	1.000	92152	25247	344	860	73		M
Perylene-d12											
264.1692	55:48	55:49	-1	1.007	63595932	22863104	445	1112	51378		
Perylene											M
252.0939	55:52	55:52	-1	1.001	85565	27634	344	860	80		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:57	-1	1.046	44197195	14812142	295	737	50211		
Indeno[1,2,3-cd]pyrene											M
276.0939	57:56	57:56	-1	1.000	81112	25155	203	507	124		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:01	-1	1.047	44626872	12841706	259	647	49582		
Dibenz(a,h)anthracene											M
278.1096	58:00	58:00	-1	1.000	91017	24132	153	382	158		M
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:24	-1	1.054	51196307	16499529	57	142	289465		
Benzo[g,h,i]perylene											M
276.0939	58:24	58:24	-1	1.000	131558	41943	203	507	207		M

QC Flag Legend

Processing Flags

Review Flags

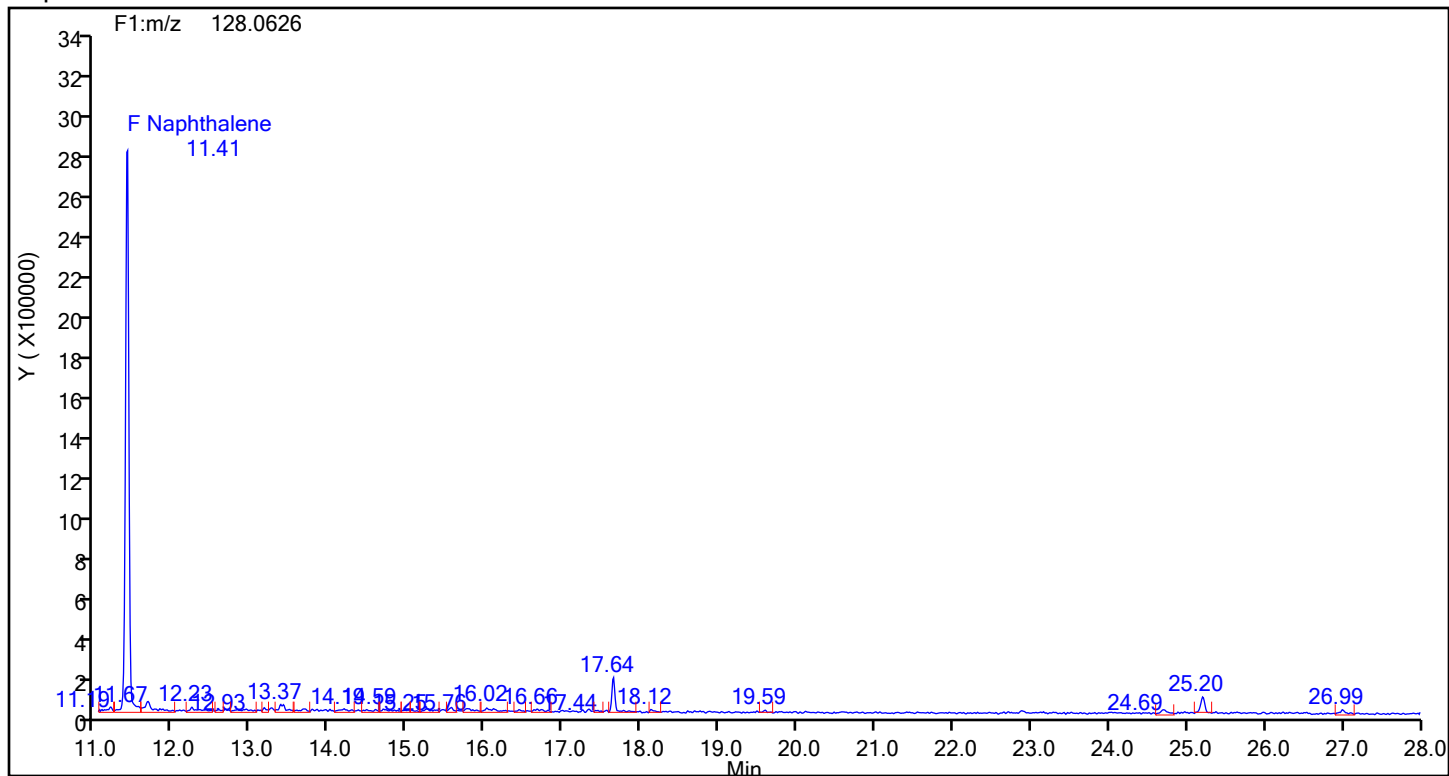
M - Manually Integrated

a - User Assigned ID

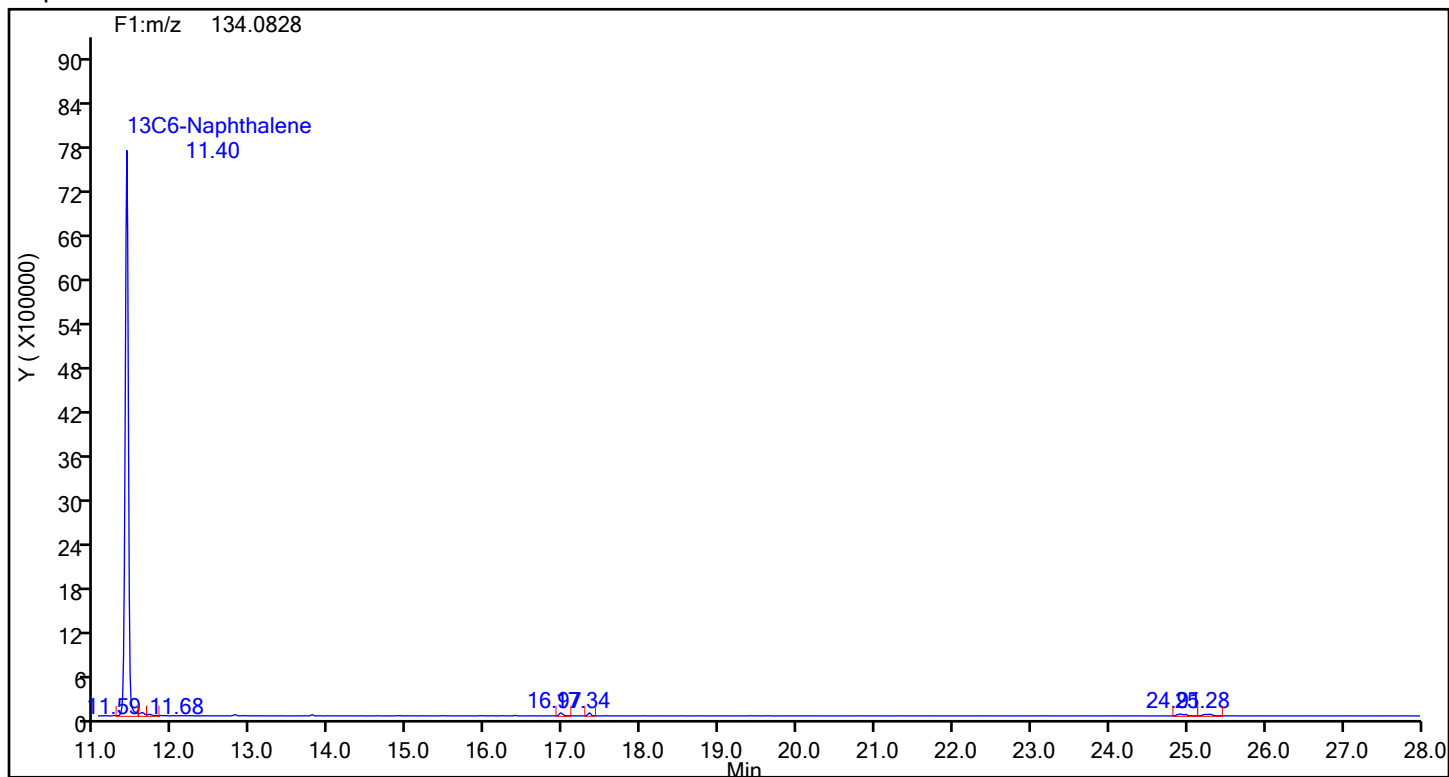
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



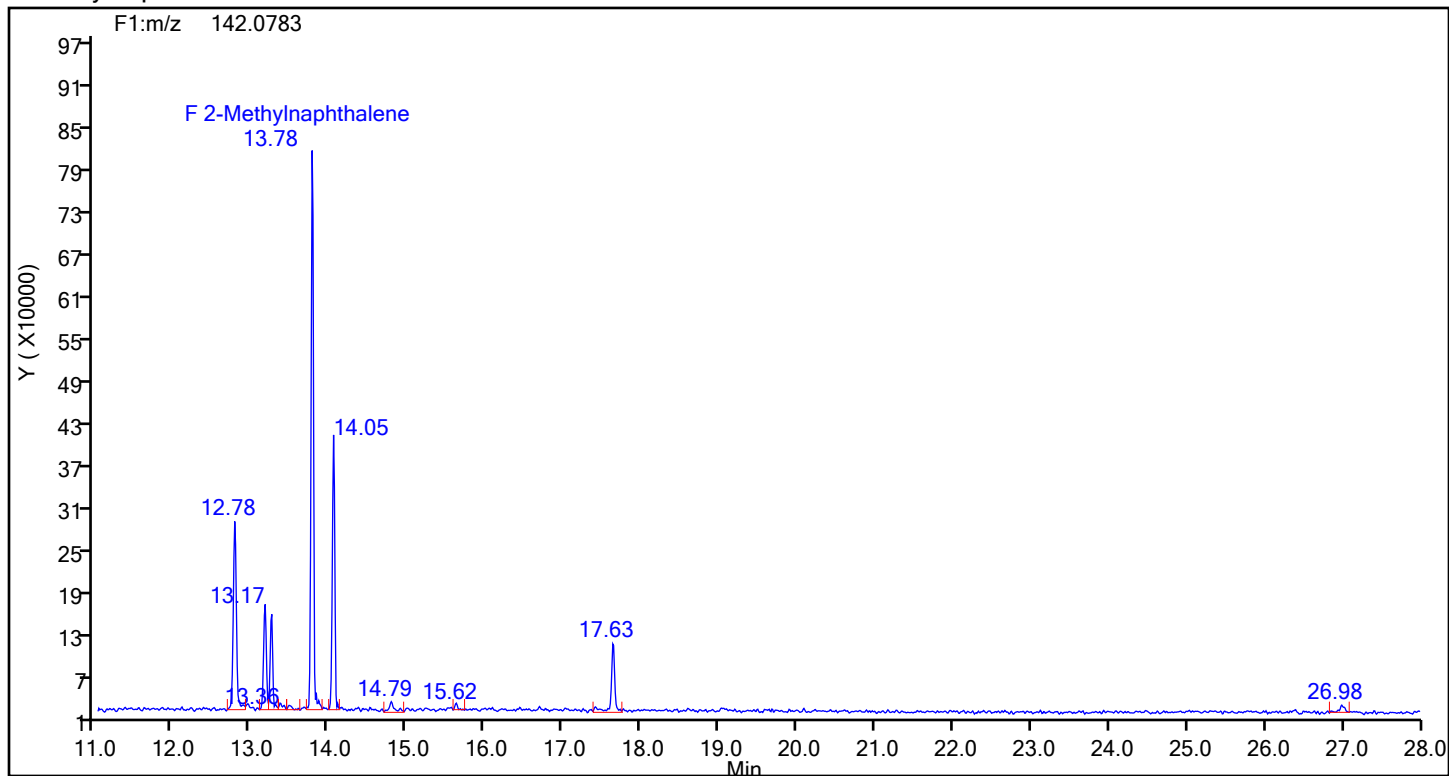
Naphthalene Standards



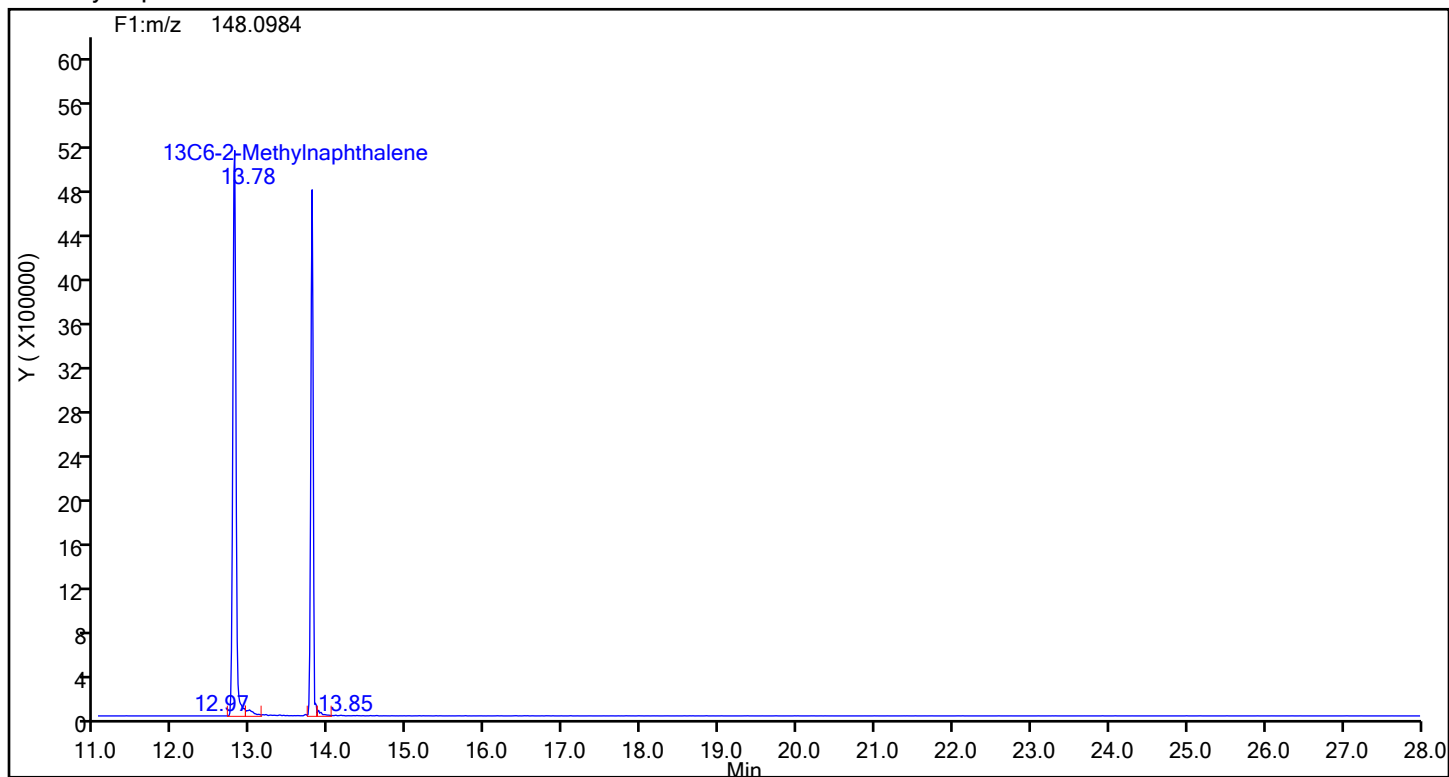
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



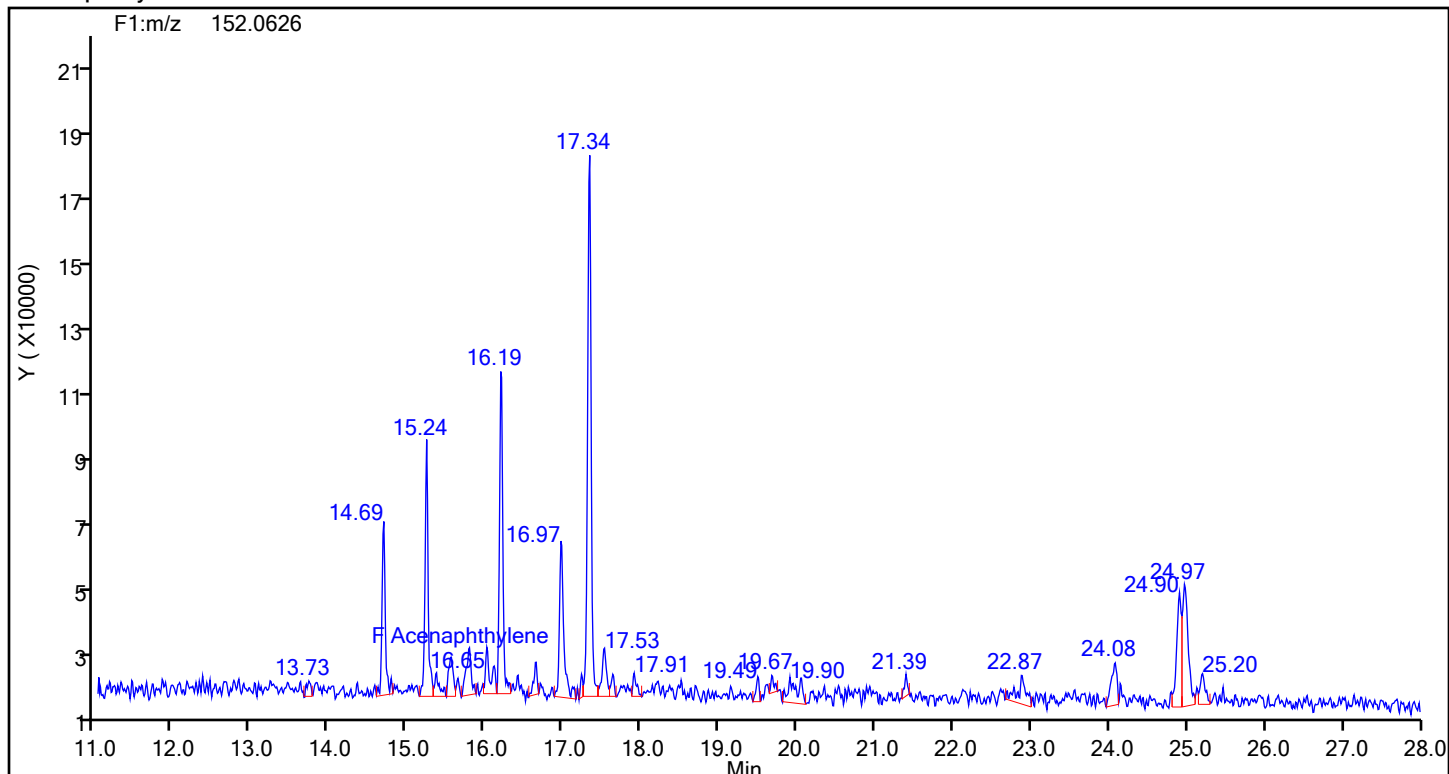
2-Methylnaphthalene Standards



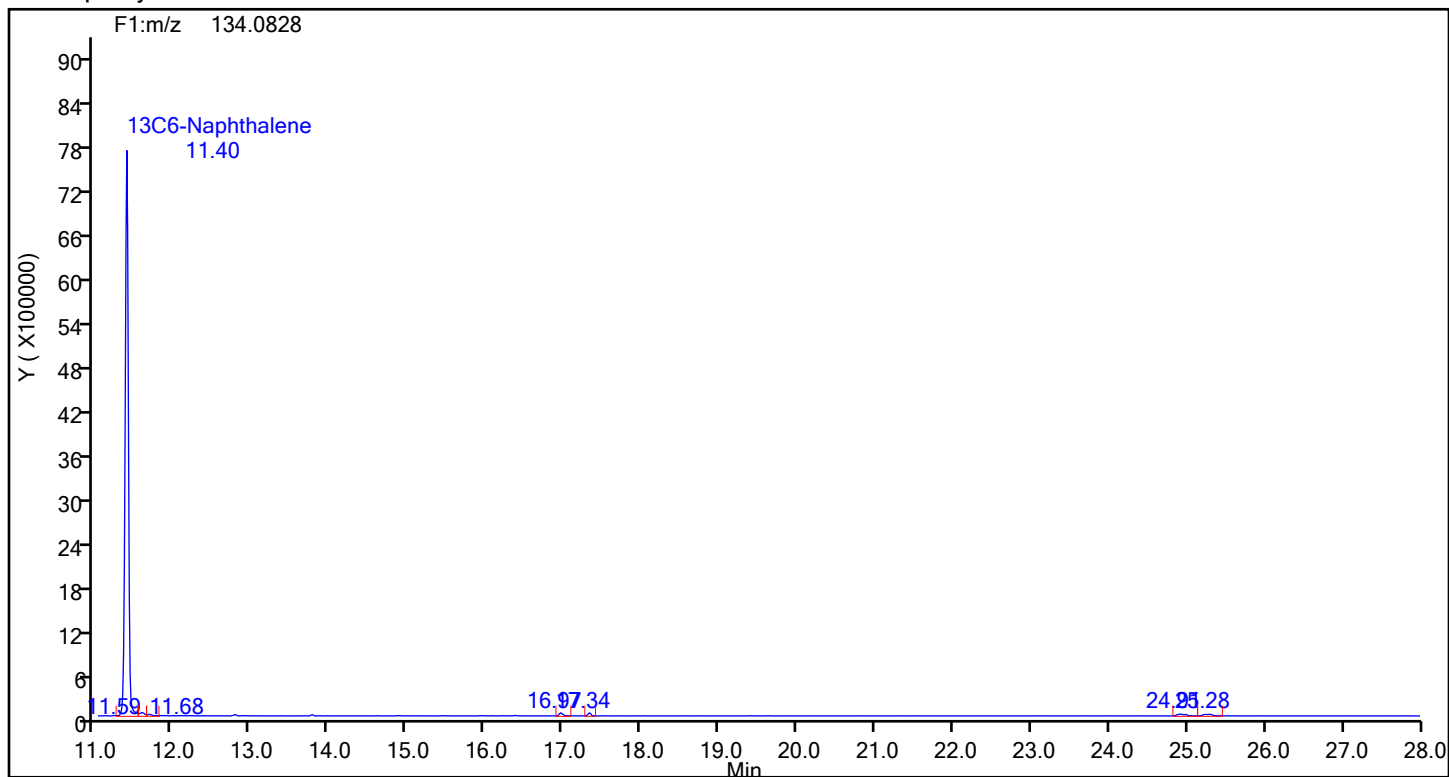
Eurofins Knoxville

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Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

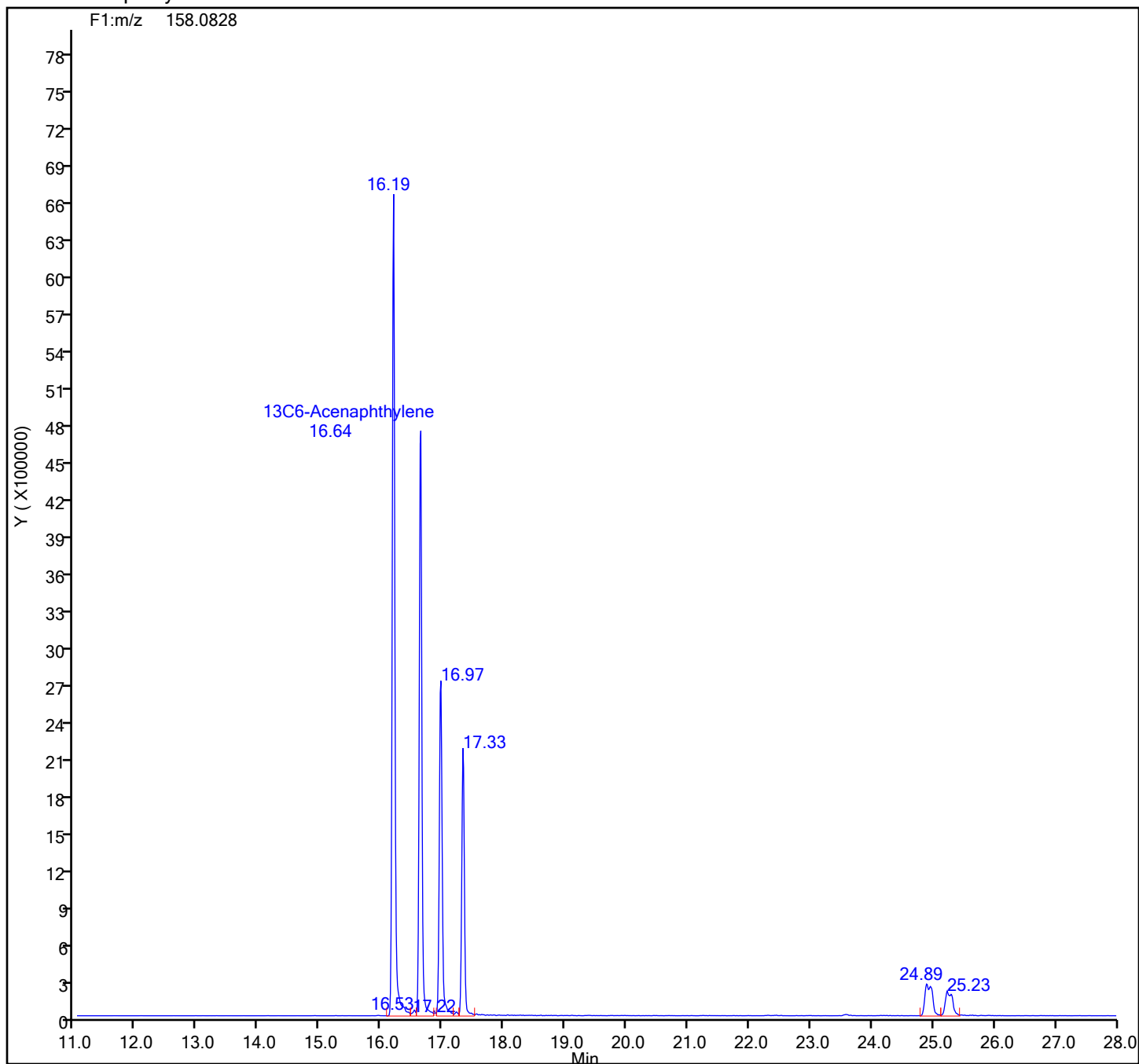


Acenaphthylene Standards



Eurofins Knoxville

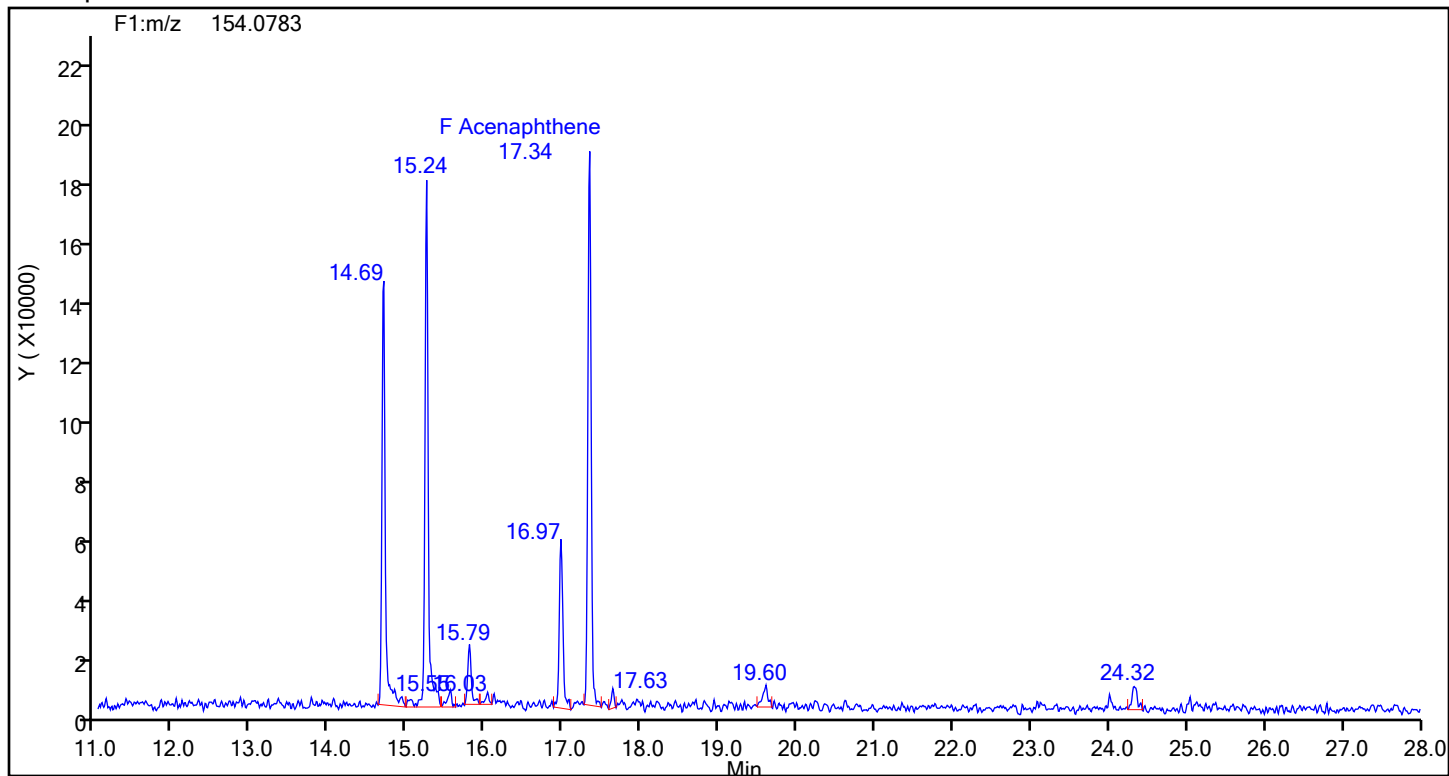
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Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



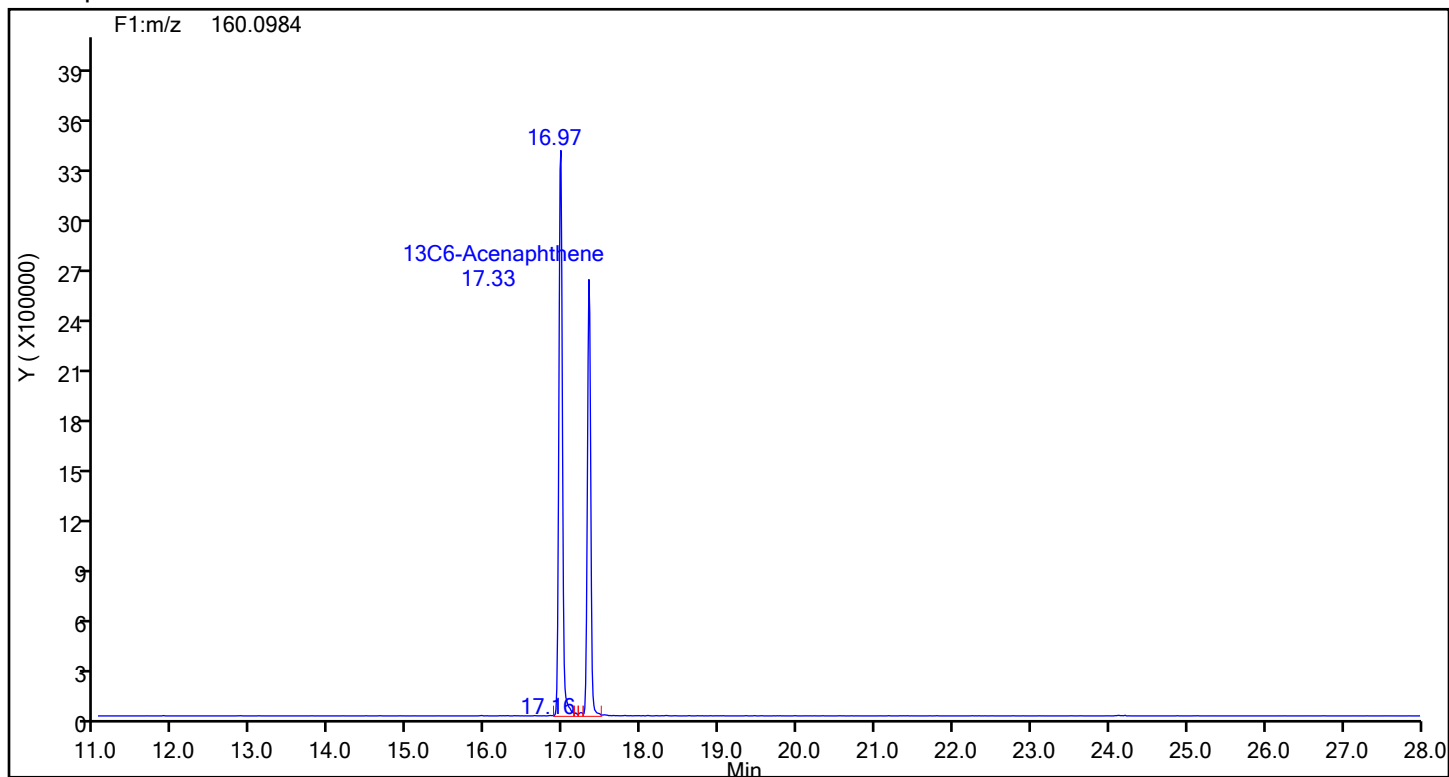
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Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



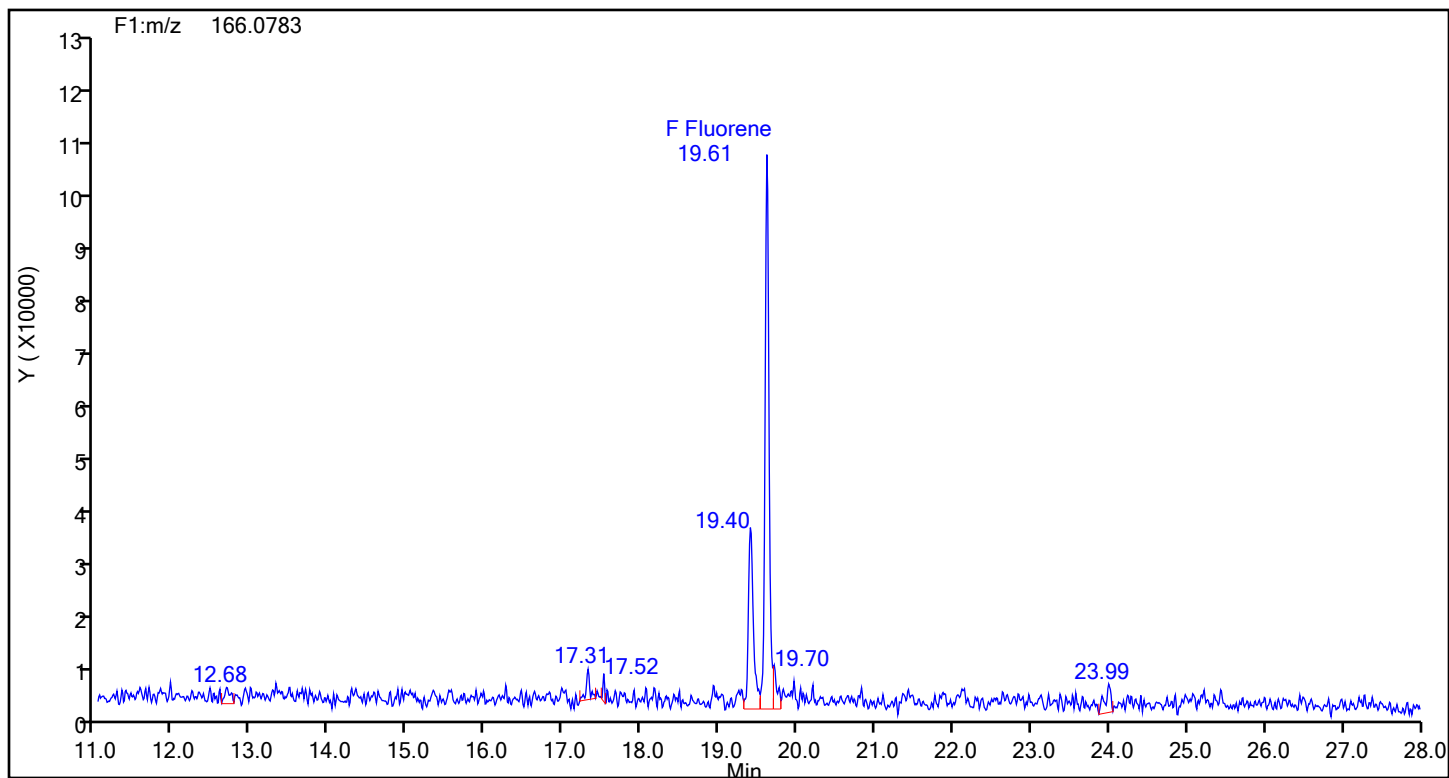
Acenaphthene Standards



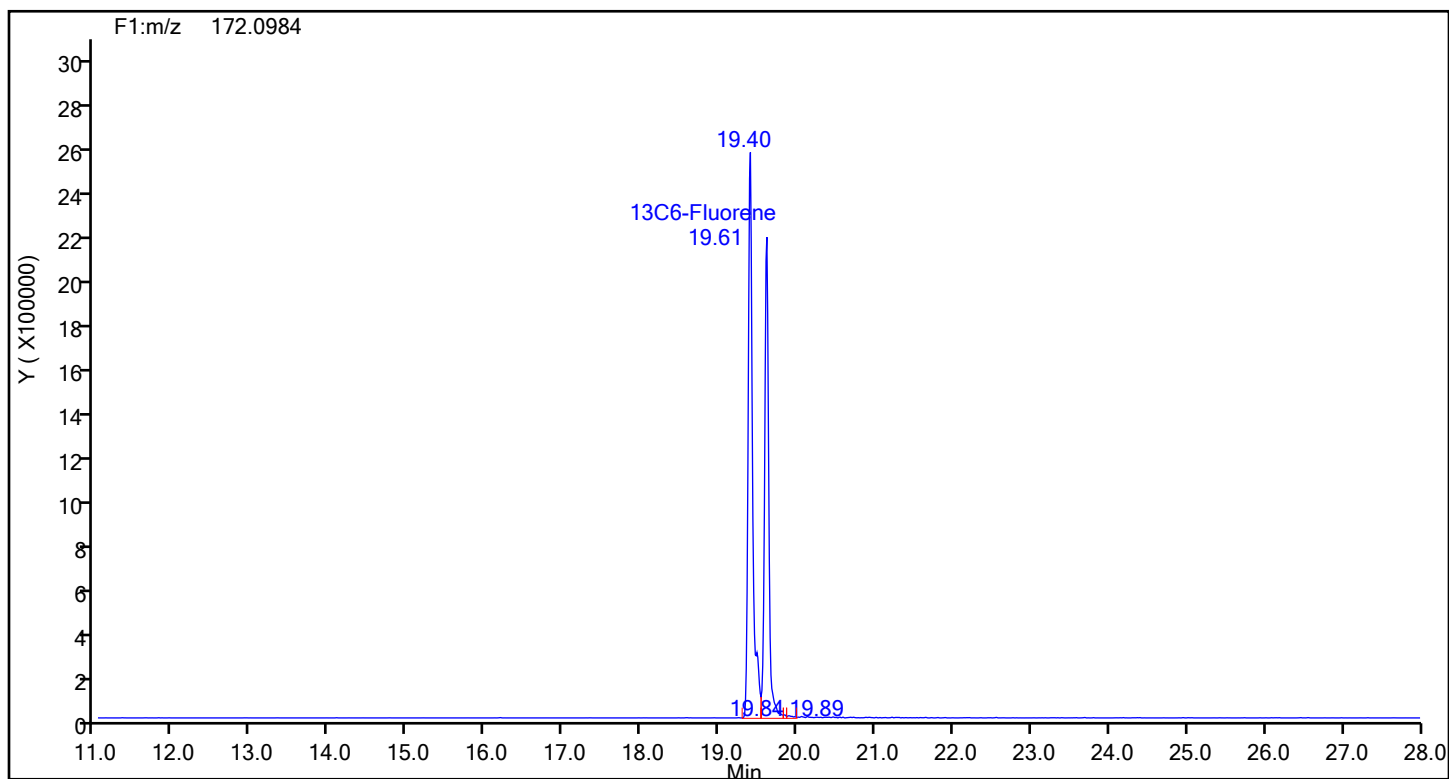
Eurofins Knoxville

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Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

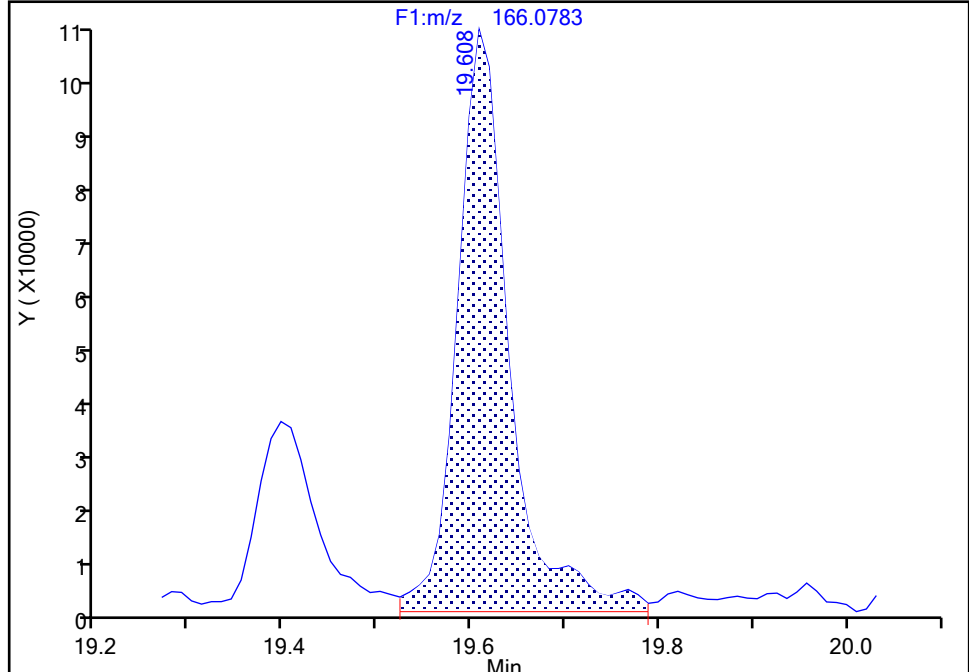
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Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Fluorene, CAS: 86-73-7

Signal: 1

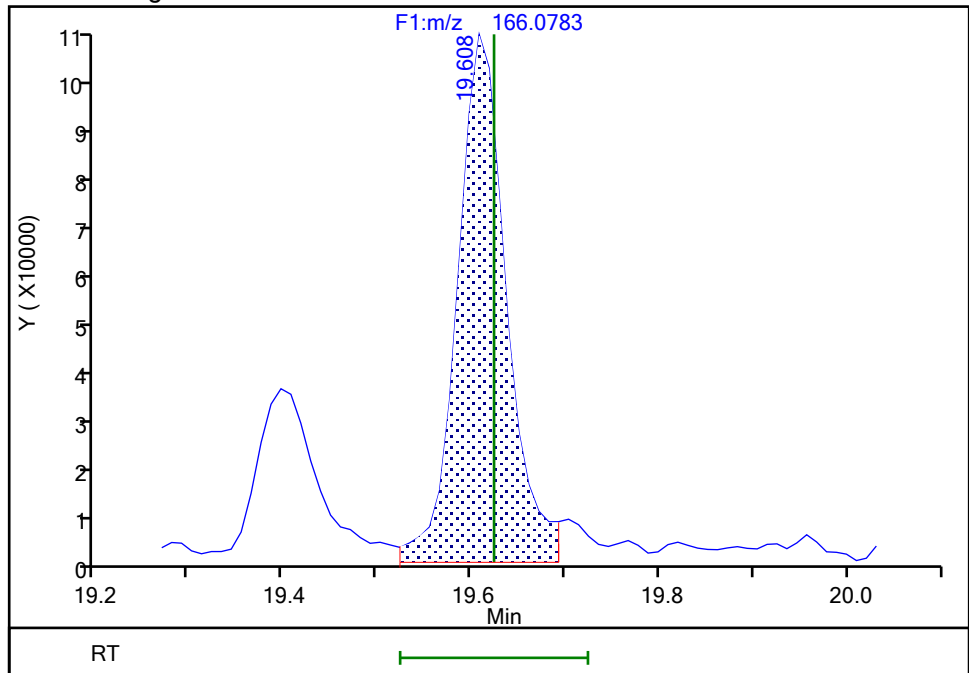
RT: 19.61
Area: 387835
Amount: 3.830804
Amount Units: pg/ul

Processing Integration Results



RT: 19.61
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Amount: 3.612731
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:58:10 -04:00:00 (UTC)

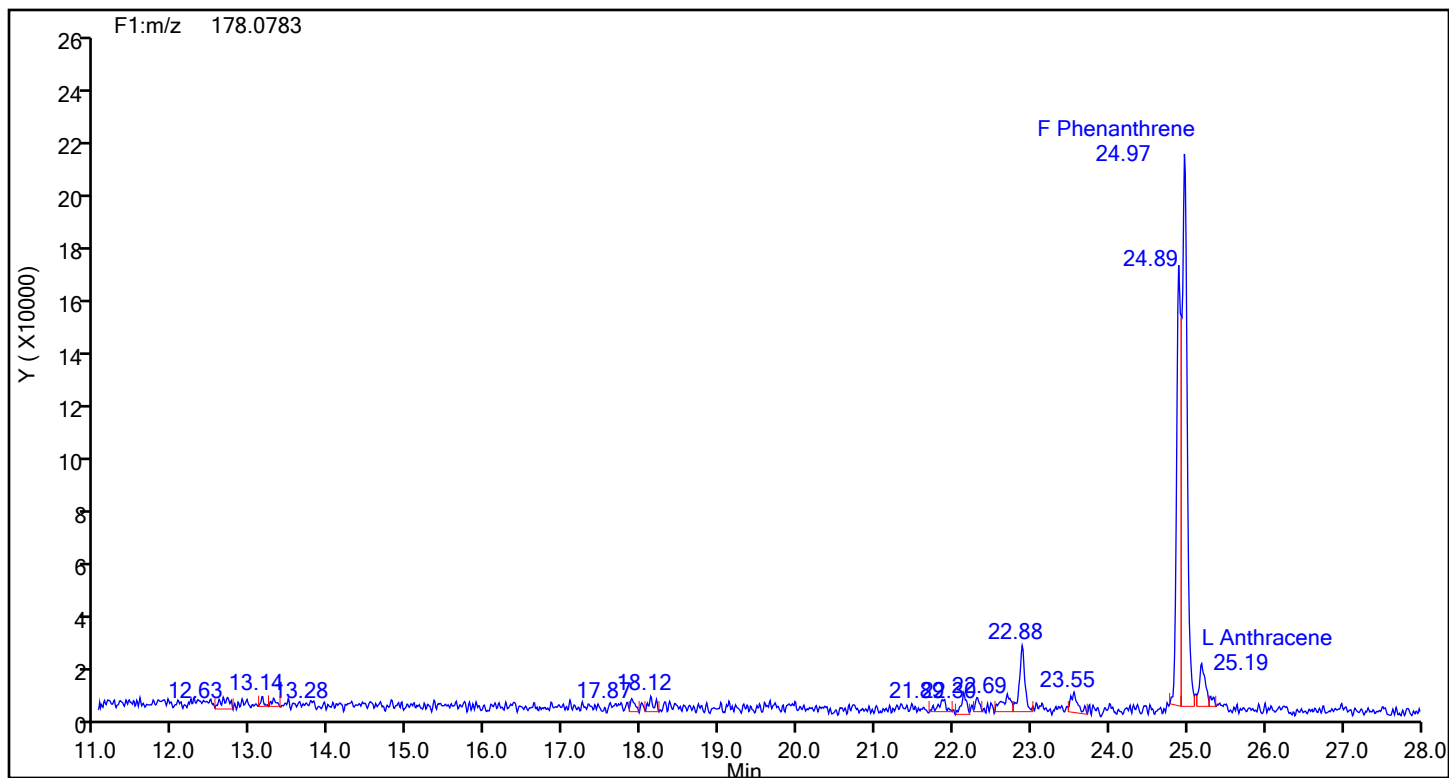
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

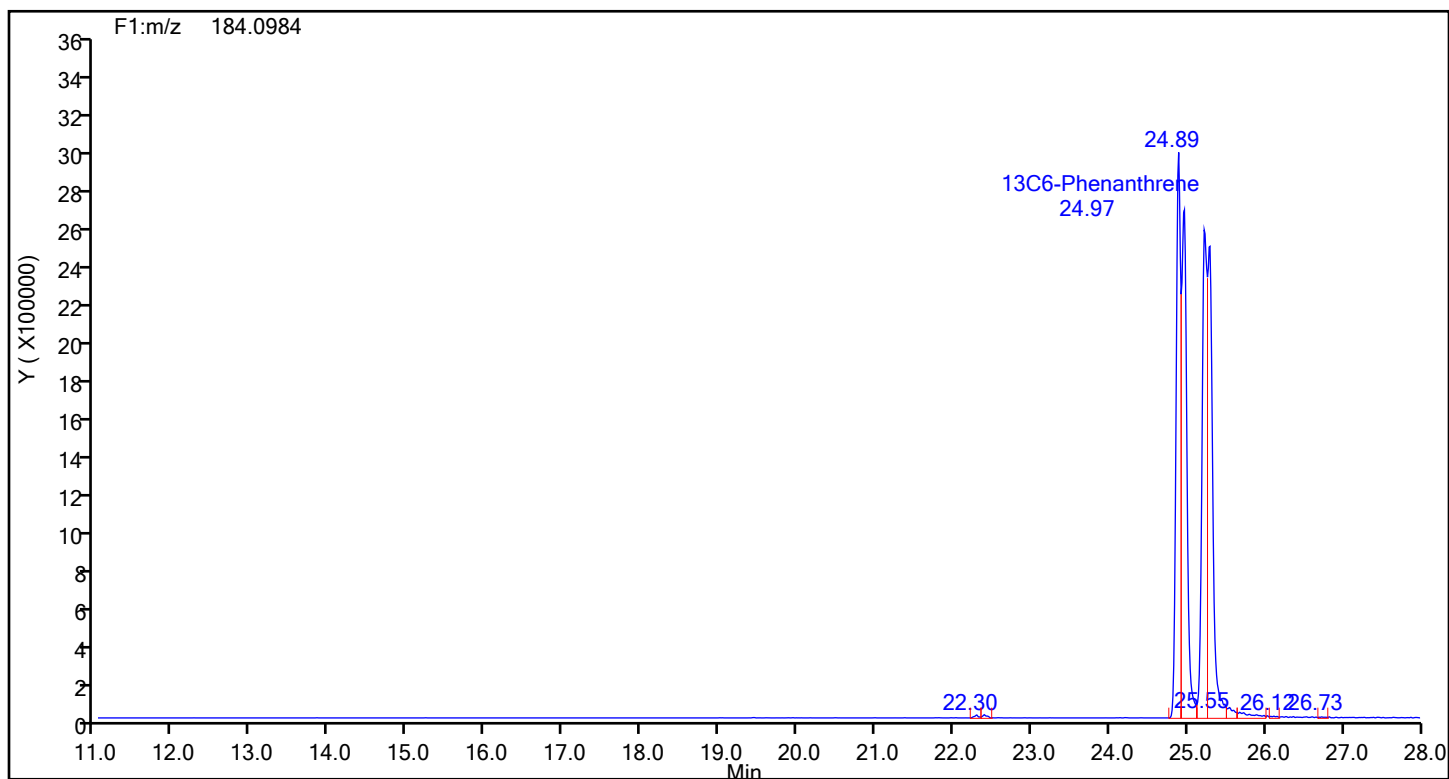
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

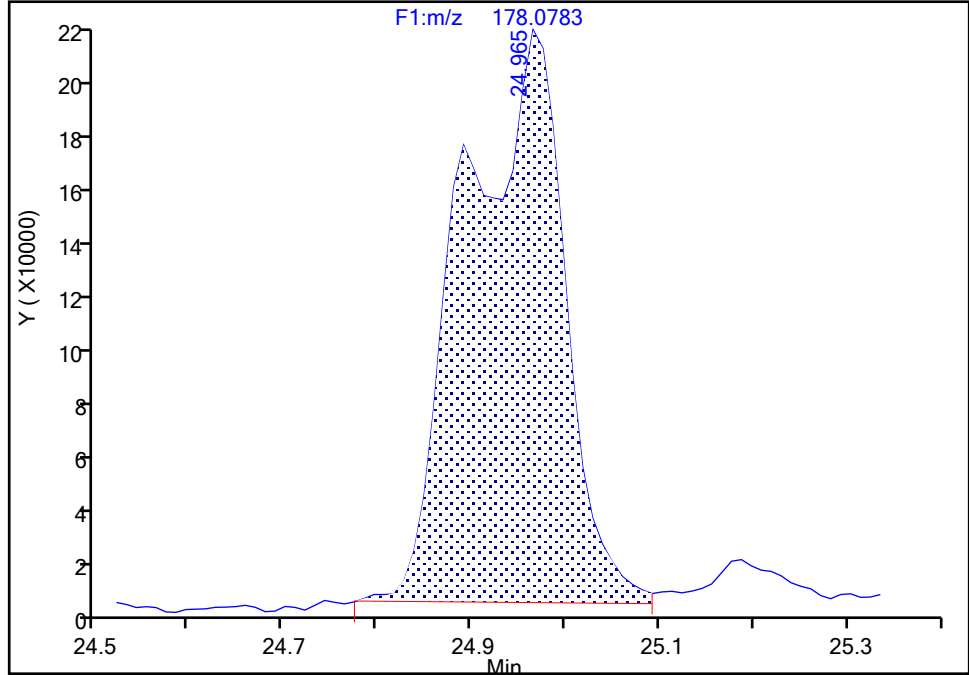
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Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Phenanthrene, CAS: 85-01-8

Signal: 1

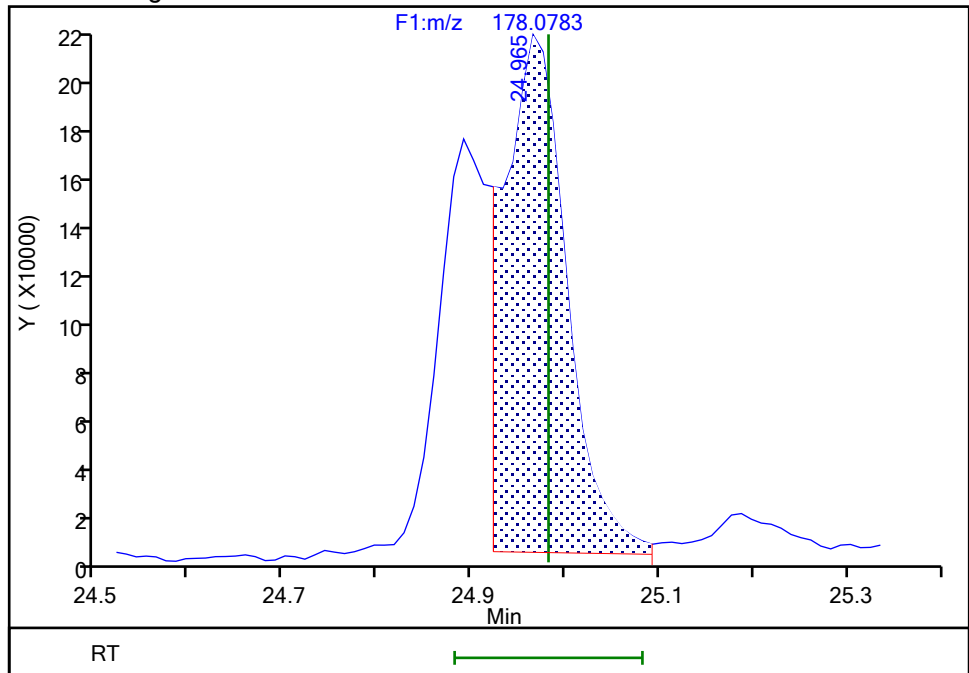
RT: 24.97
Area: 1537894
Amount: 5.706338
Amount Units: pg/ul

Processing Integration Results



RT: 24.97
Area: 987296
Amount: 6.658630
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:57:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

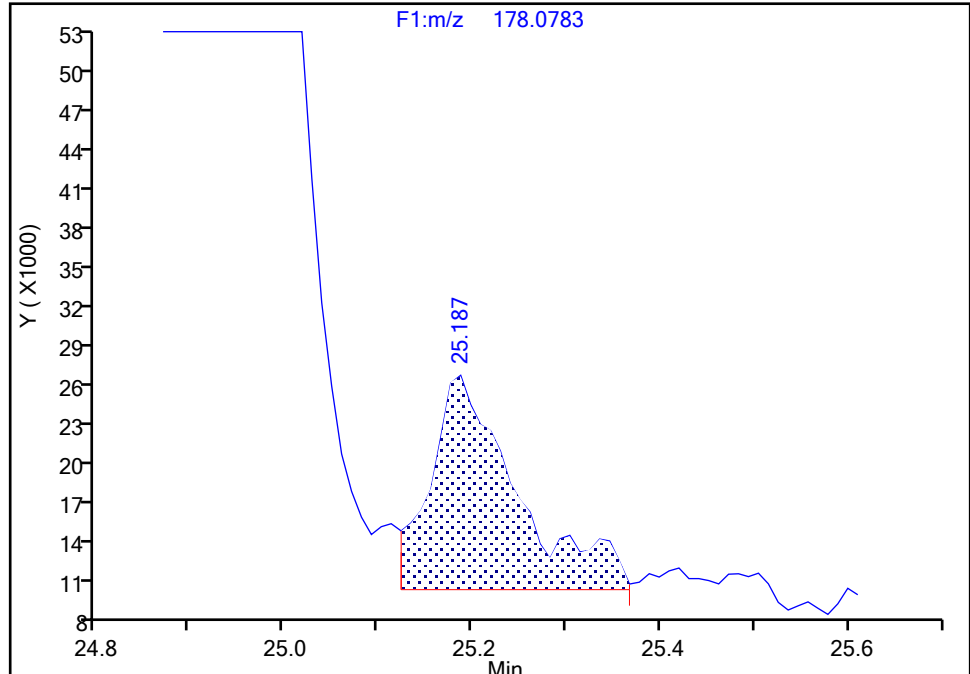
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Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Anthracene, CAS: 120-12-7

Signal: 1

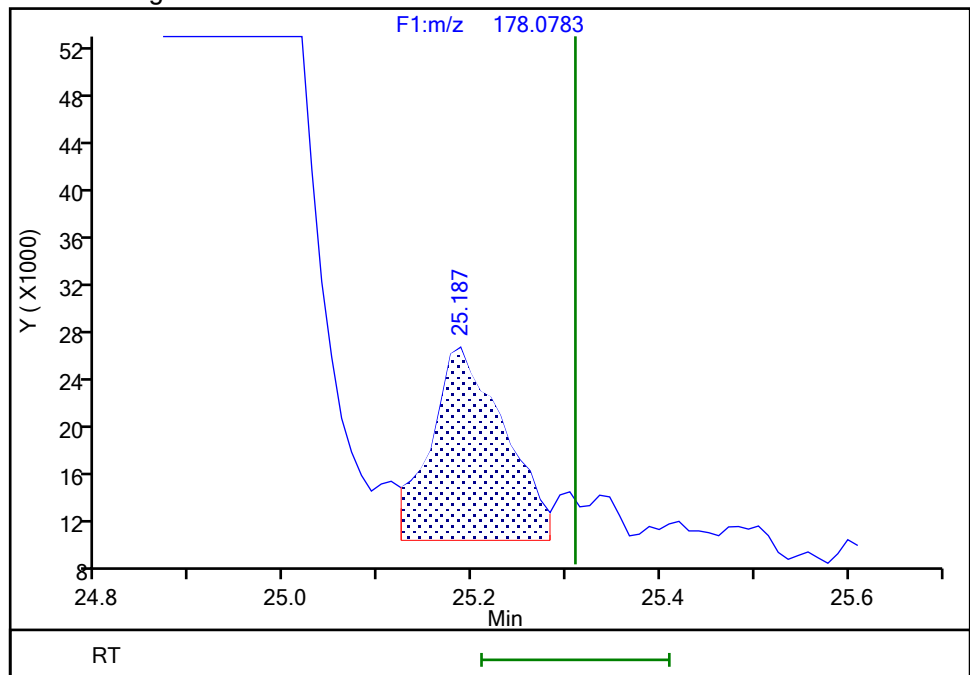
RT: 25.19
Area: 104229
Amount: 0.627285
Amount Units: pg/ul

Processing Integration Results



RT: 25.19
Area: 90668
Amount: 0.545670
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:59:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

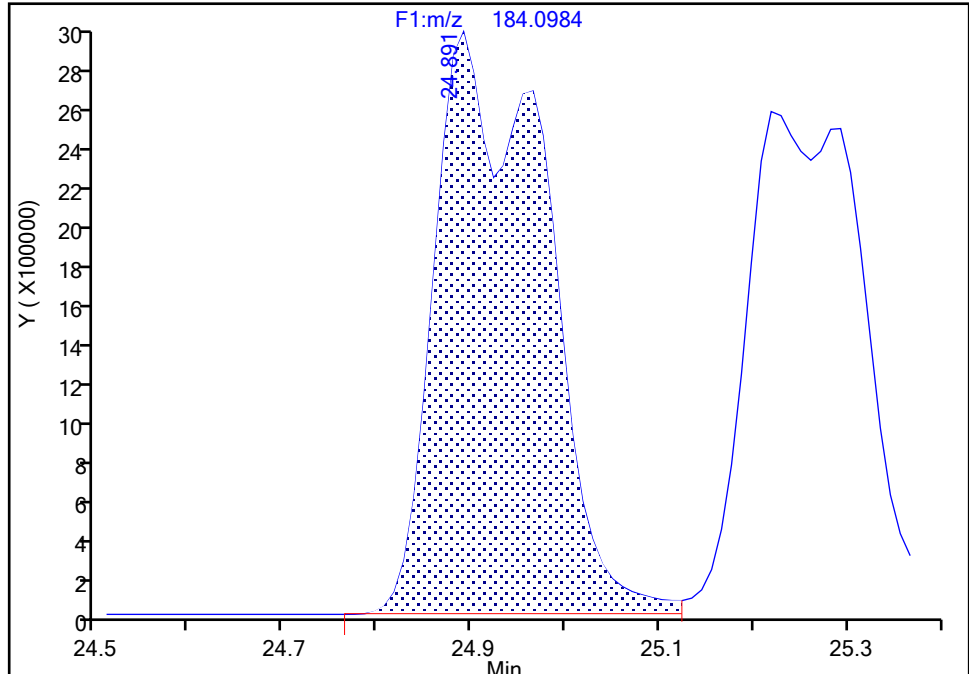
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Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Phenanthrene, CAS: 1189955-53-0

Signal: 1

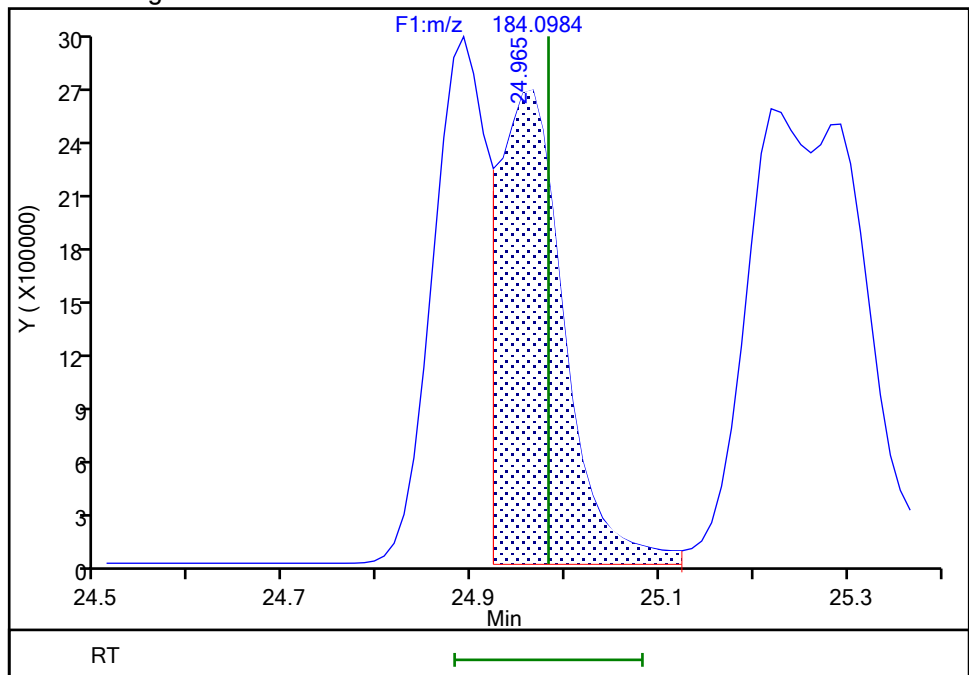
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Area: 24402136
Amount: 52.746744
Amount Units: pg/ul

Processing Integration Results



RT: 24.97
Area: 13425221
Amount: 29.019455
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:59:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

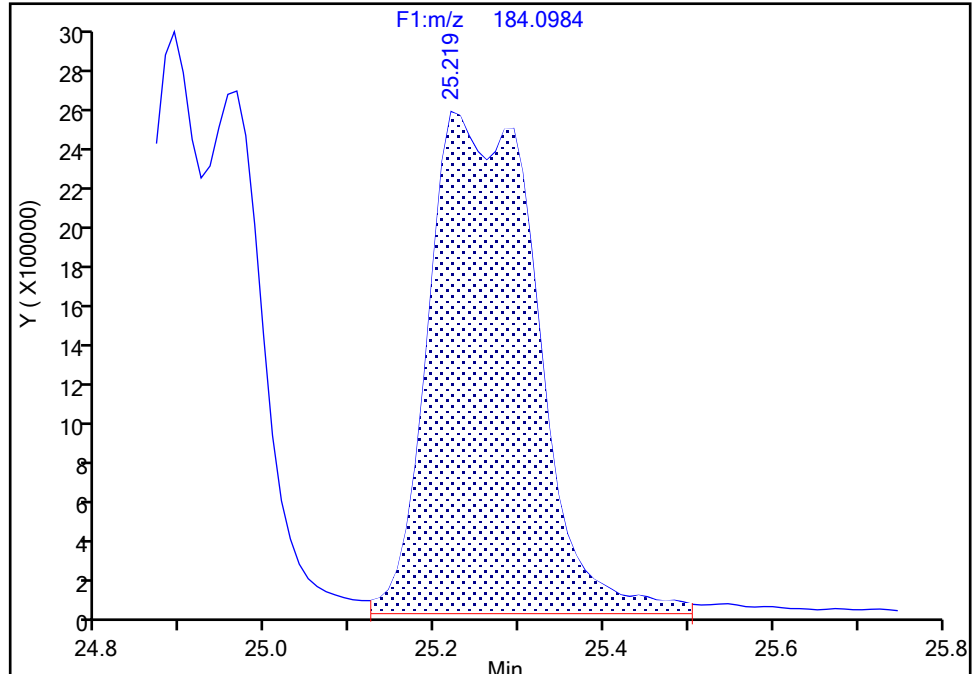
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Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Anthracene, CAS: 189811-60-7

Signal: 1

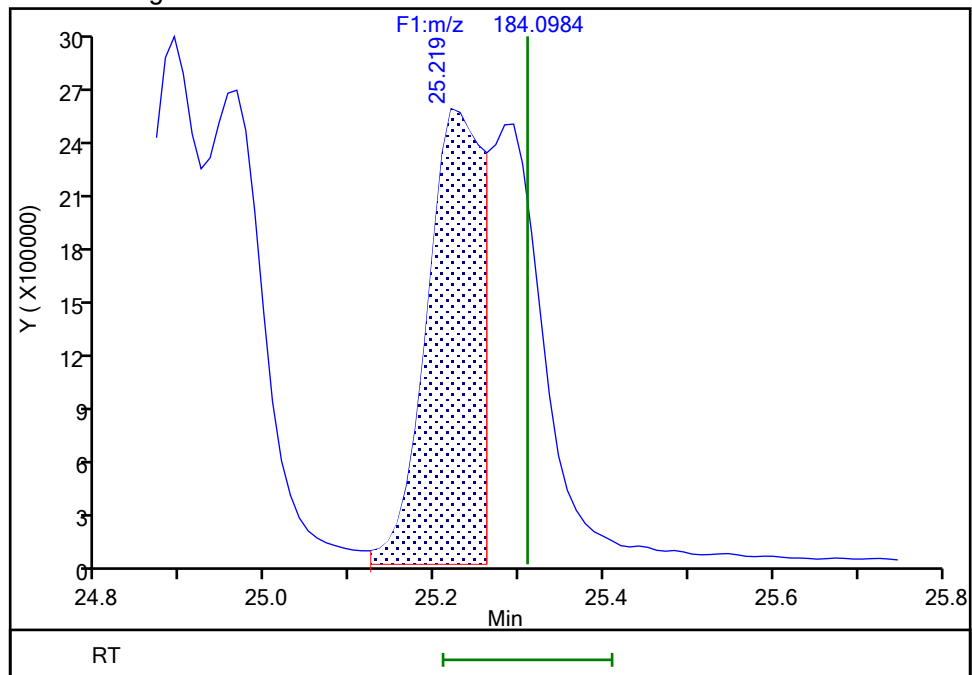
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Amount: 62.049790
Amount Units: pg/ul

Processing Integration Results



RT: 25.22
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Amount: 33.454708
Amount Units: pg/ul

Manual Integration Results



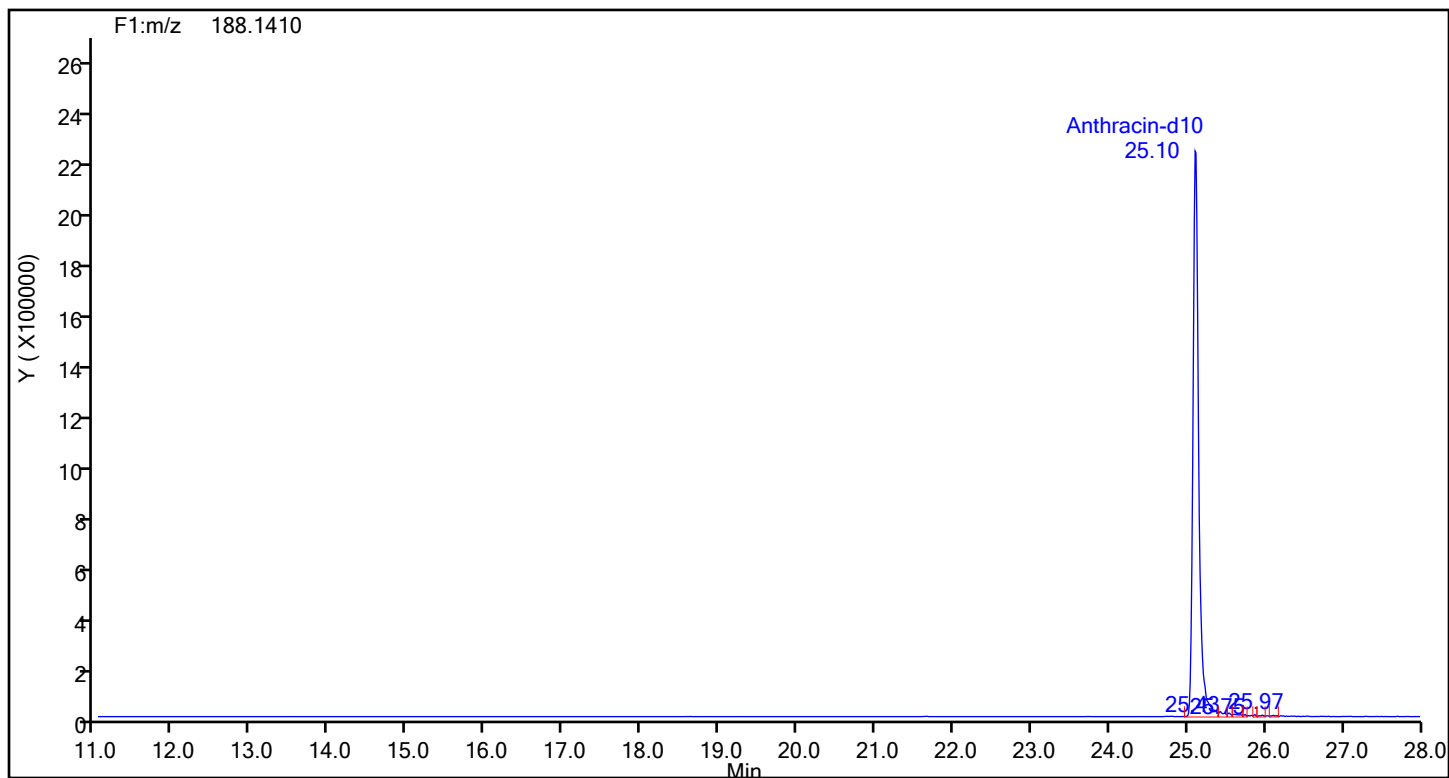
Reviewer: TT6I, 20-Jul-2024 08:59:26 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

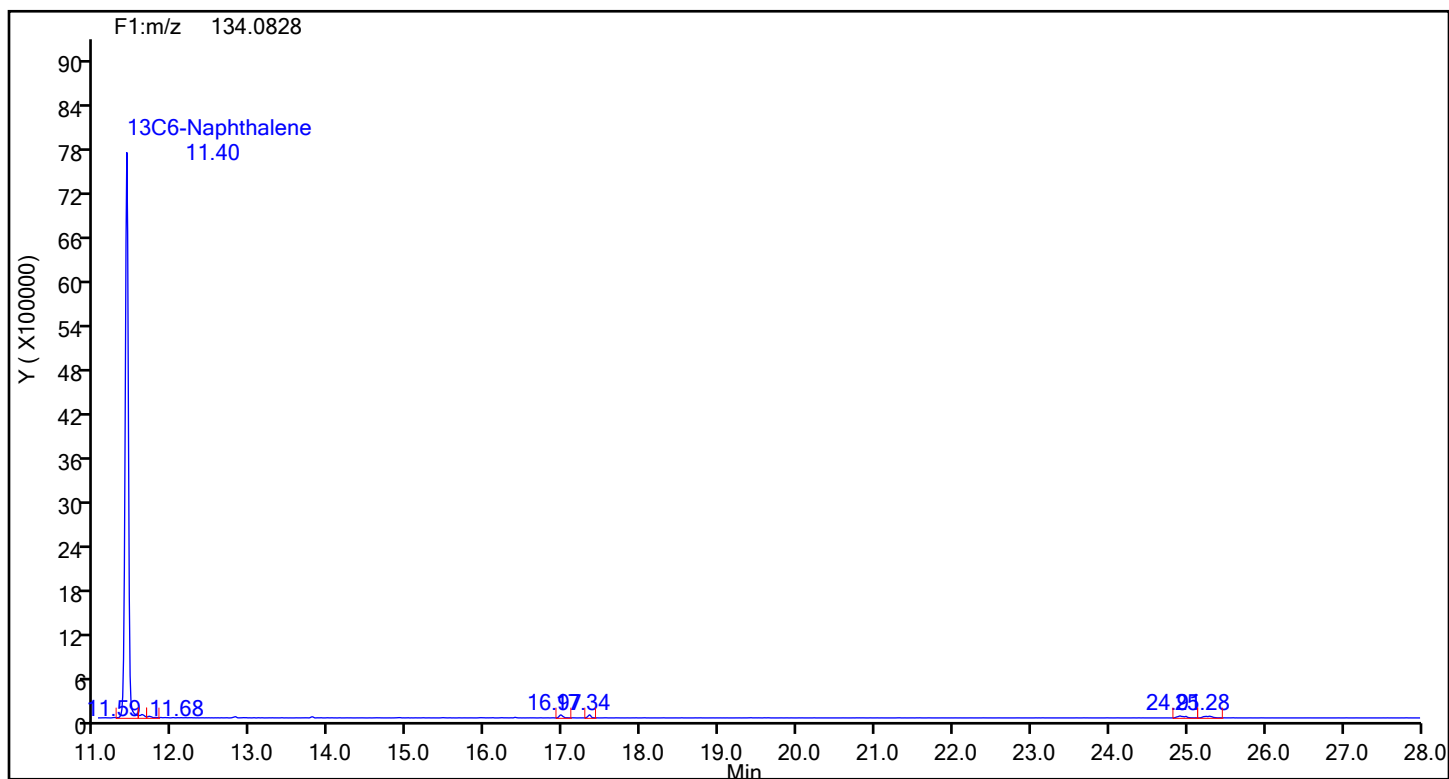
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

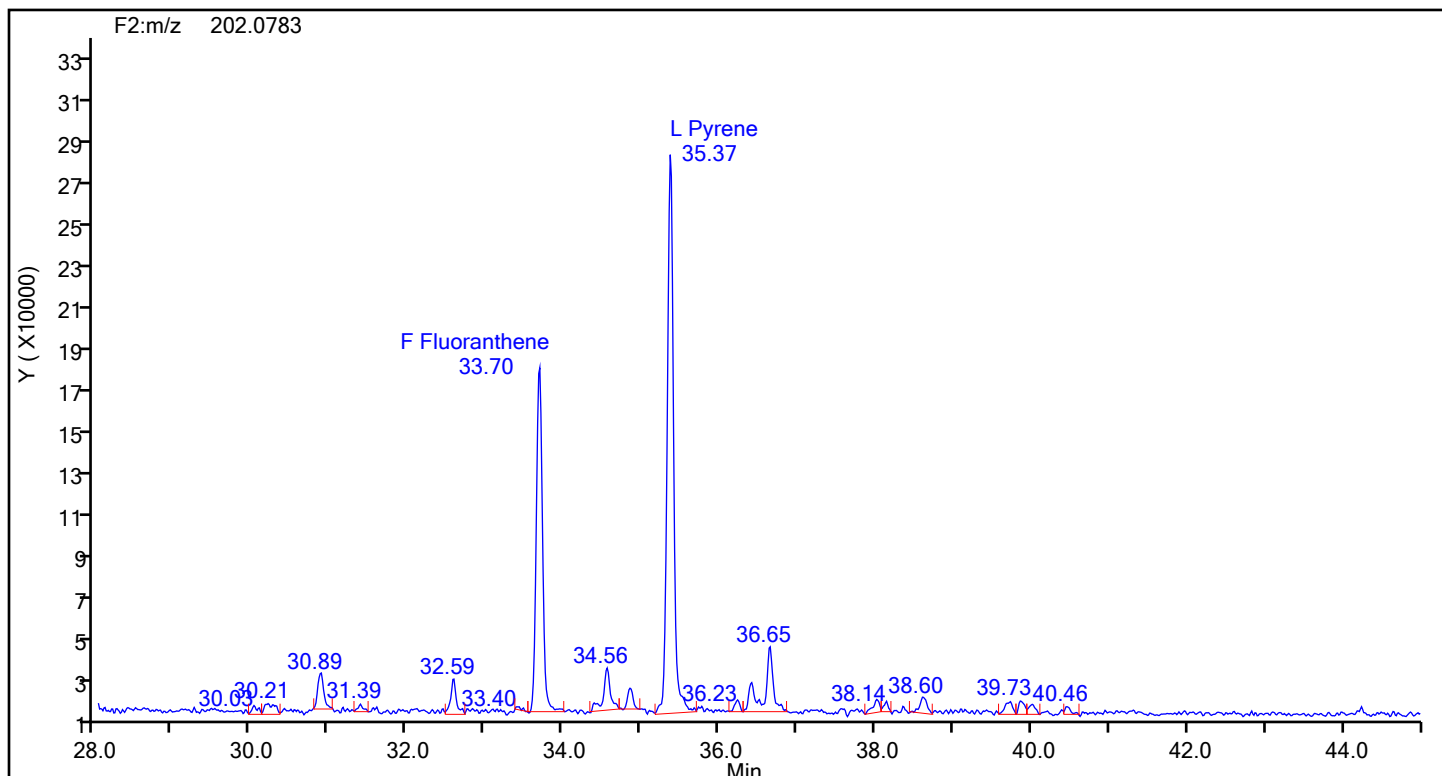


Anthracin-d10 Standards

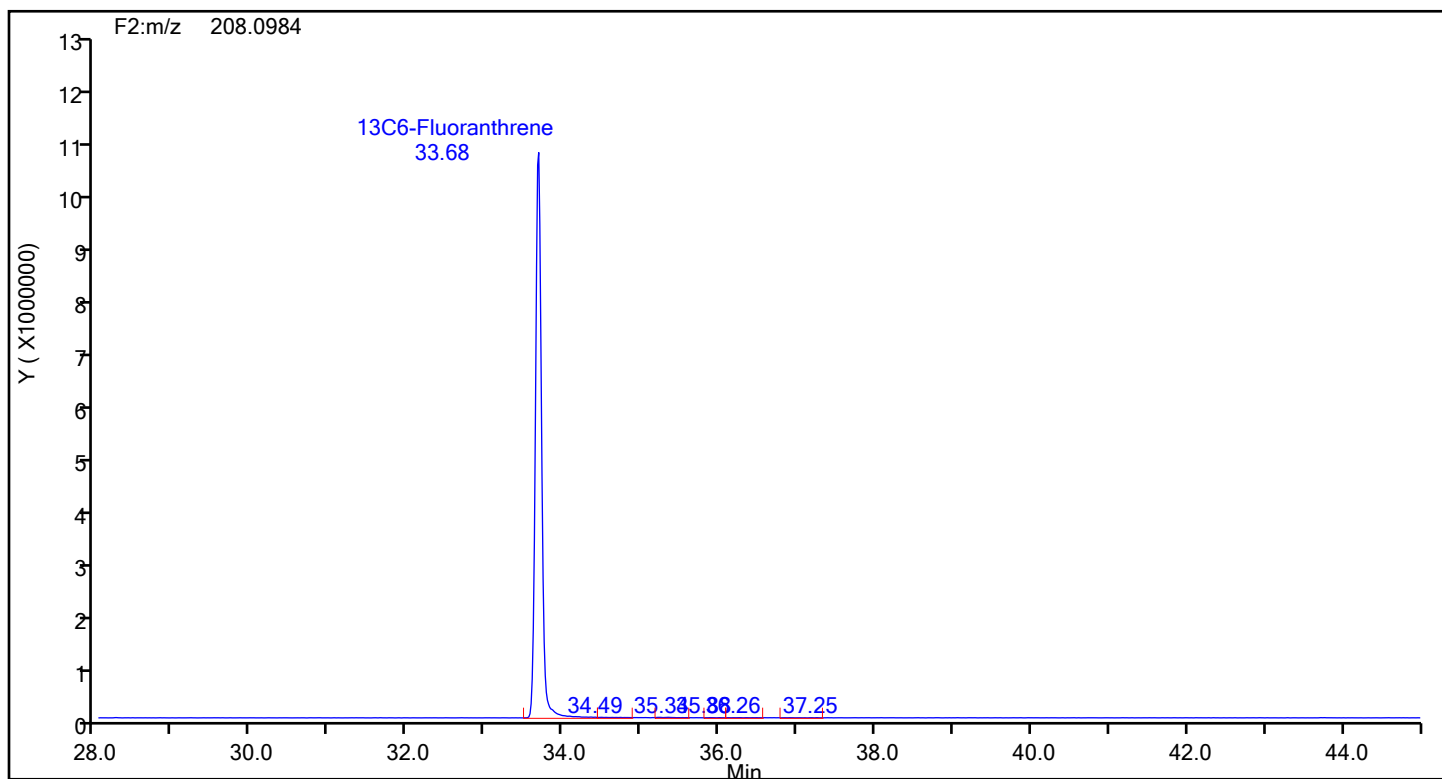


Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



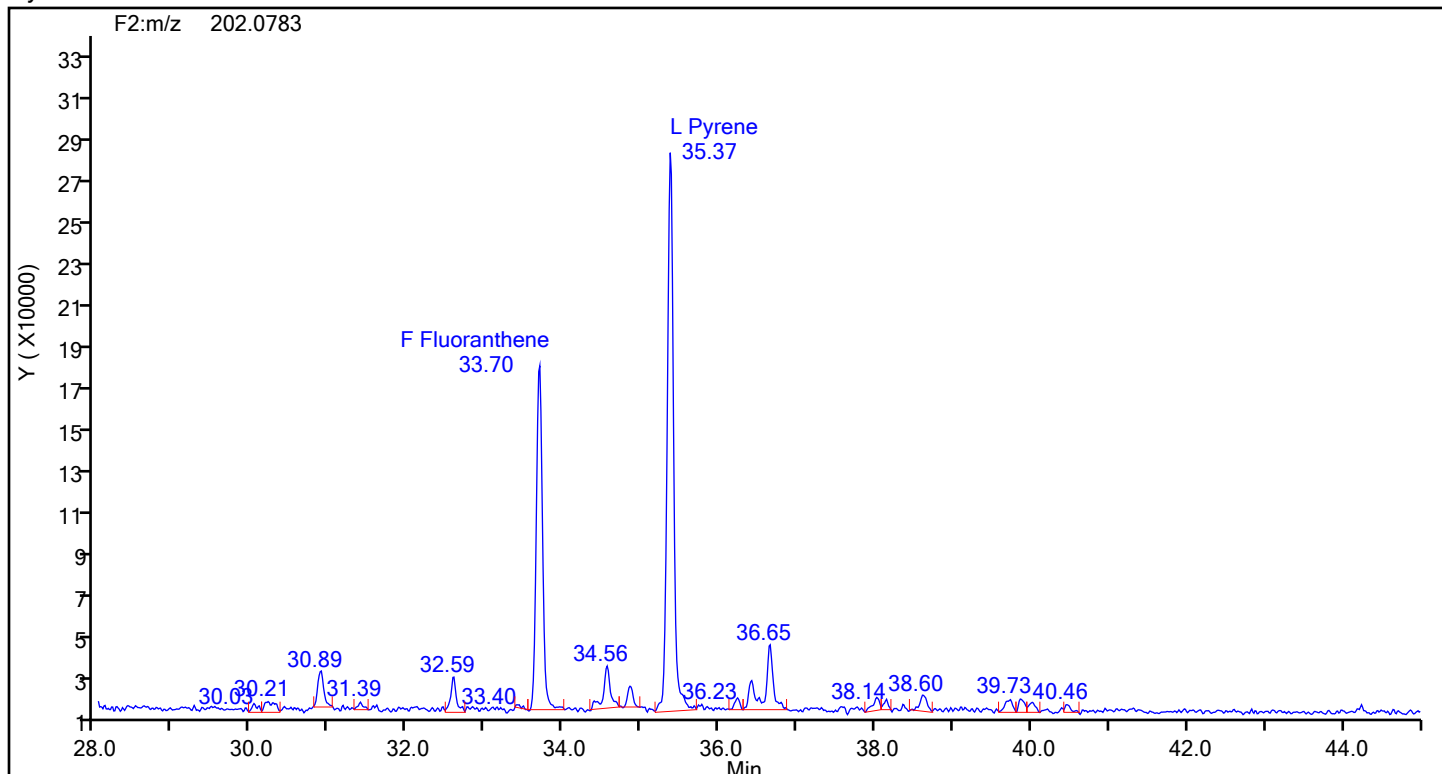
Fluoranthene Standards



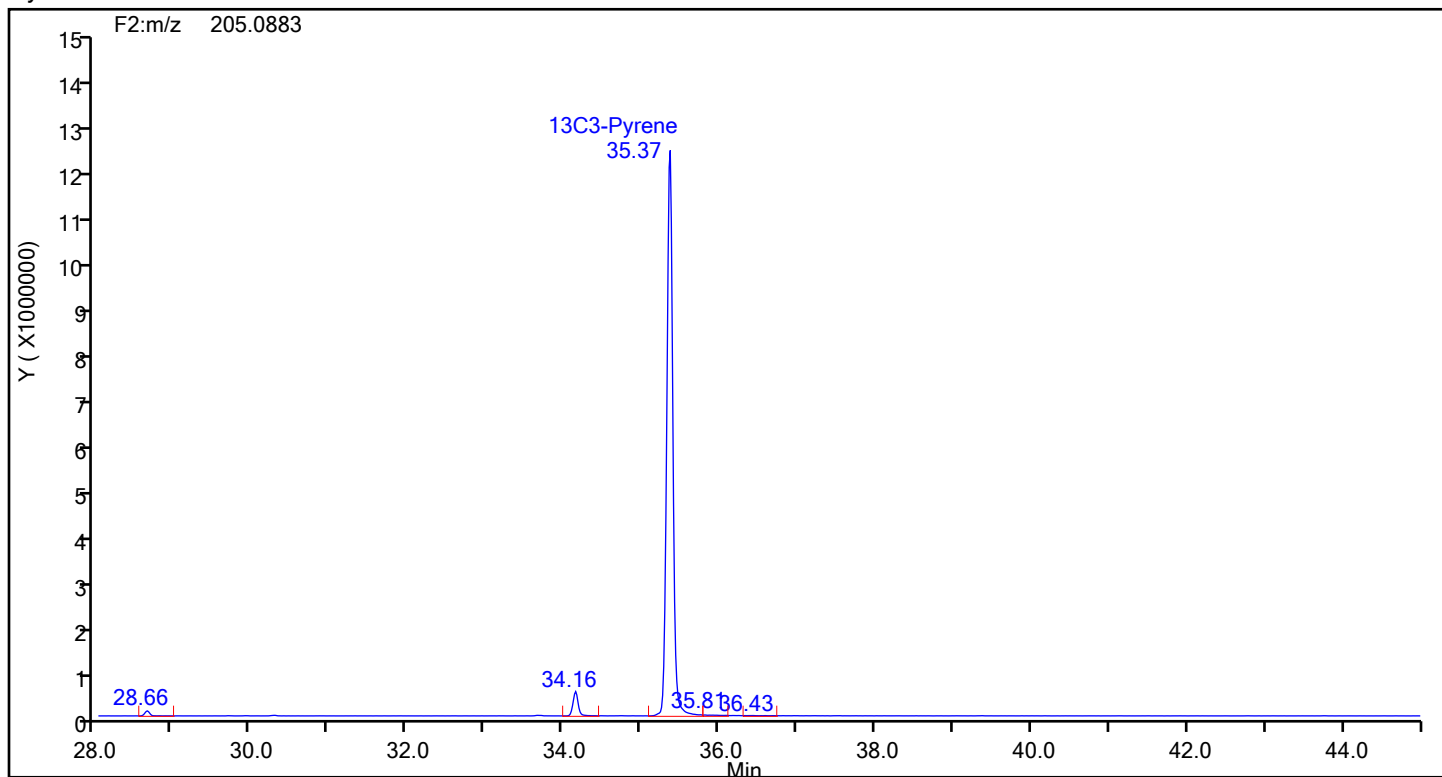
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Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



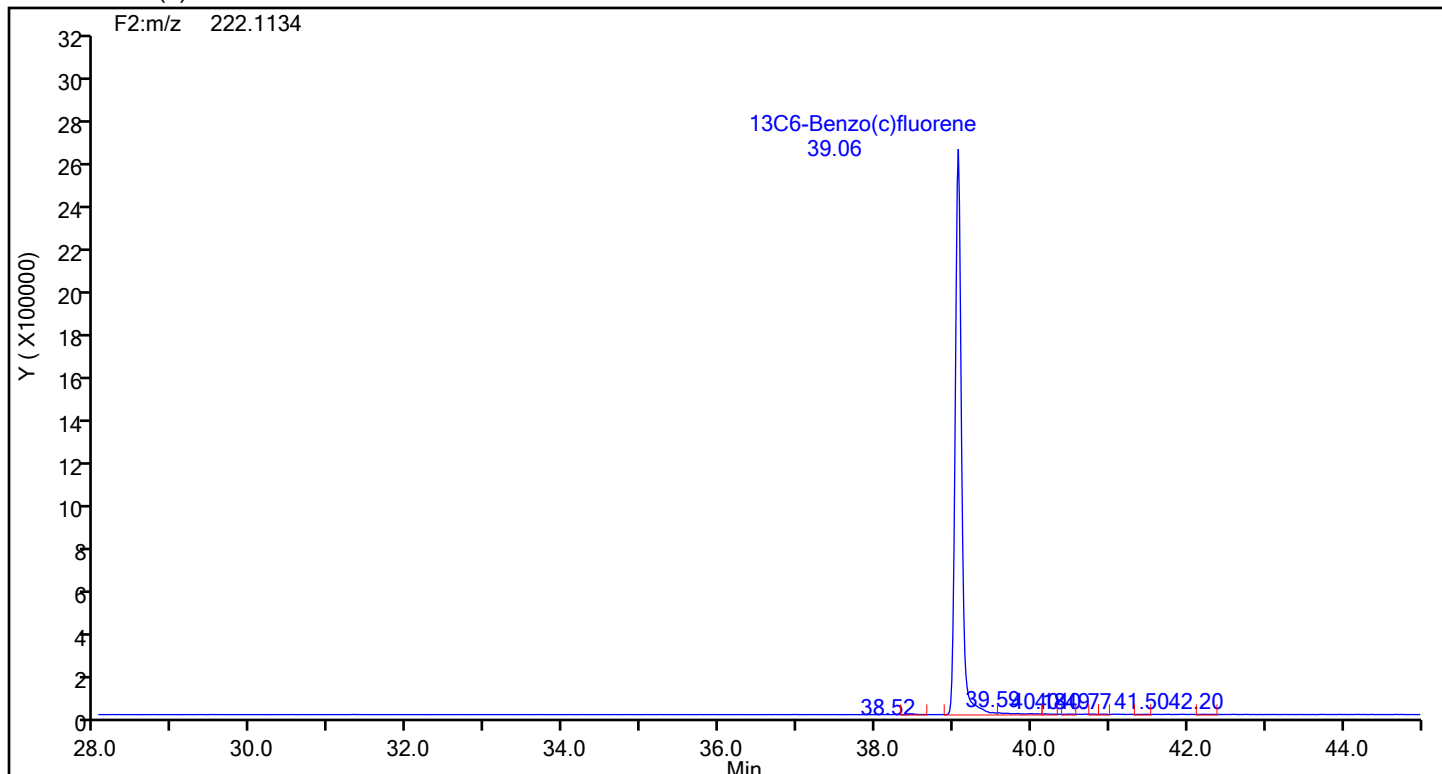
Pyrene Standards



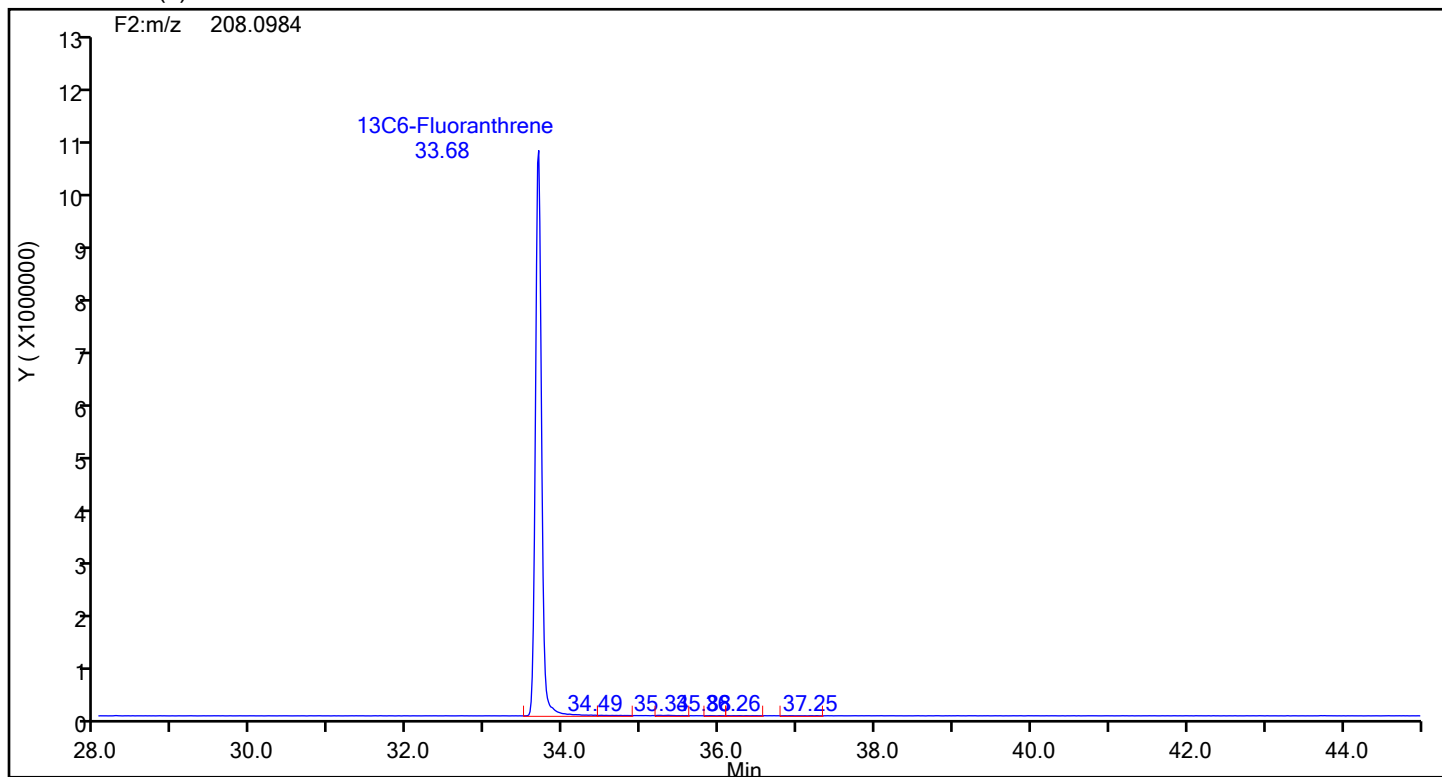
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



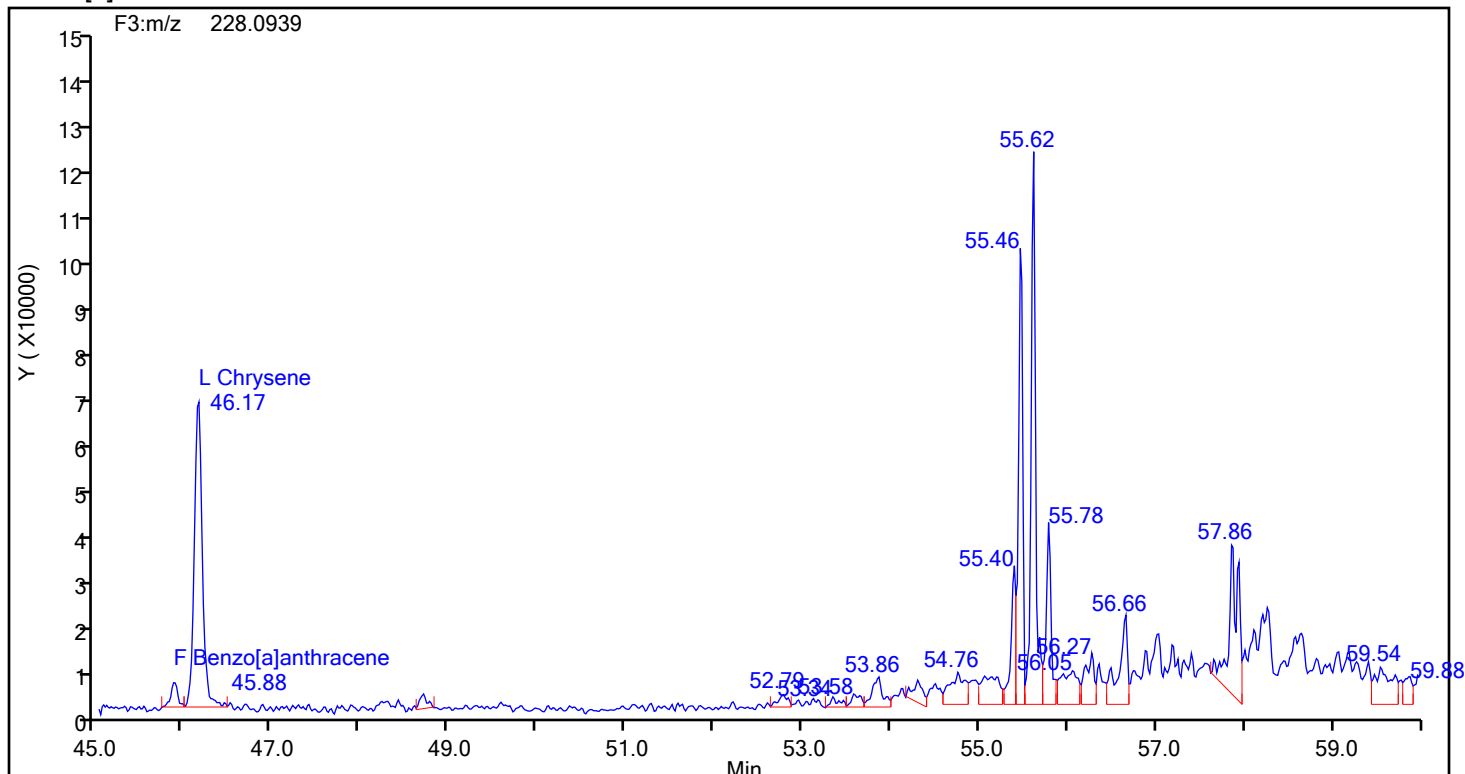
13C6-Benzo(c)fluorene Standards



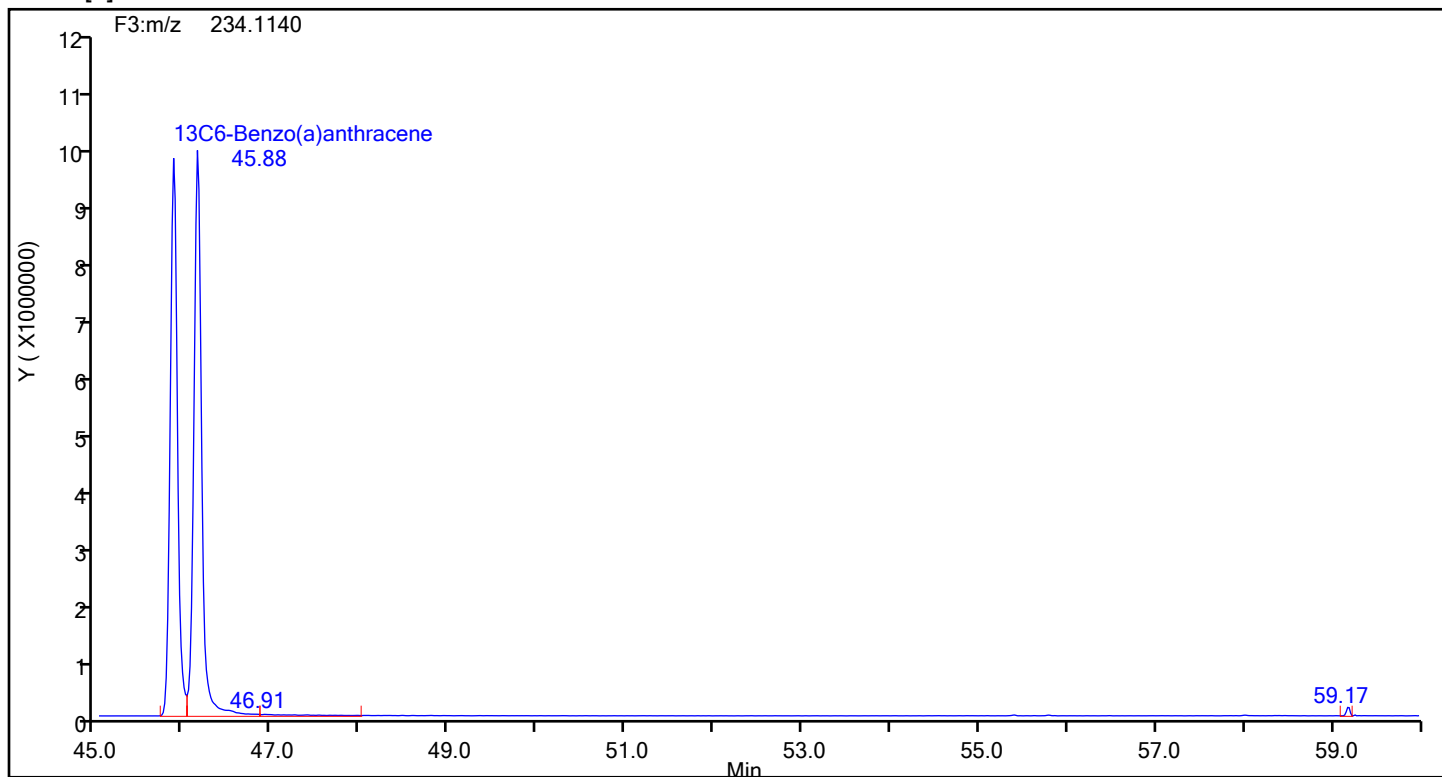
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



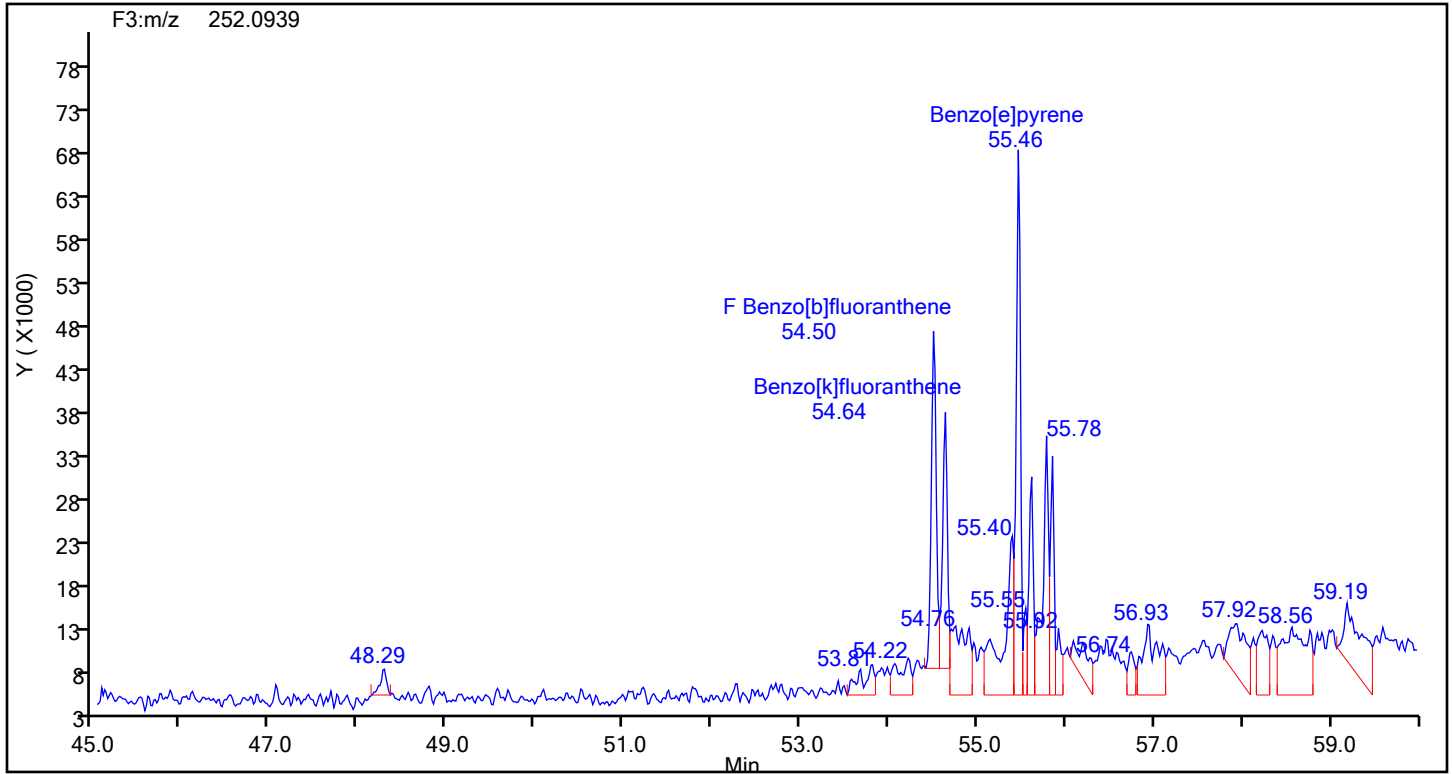
Benzo[a]anthracene Standards



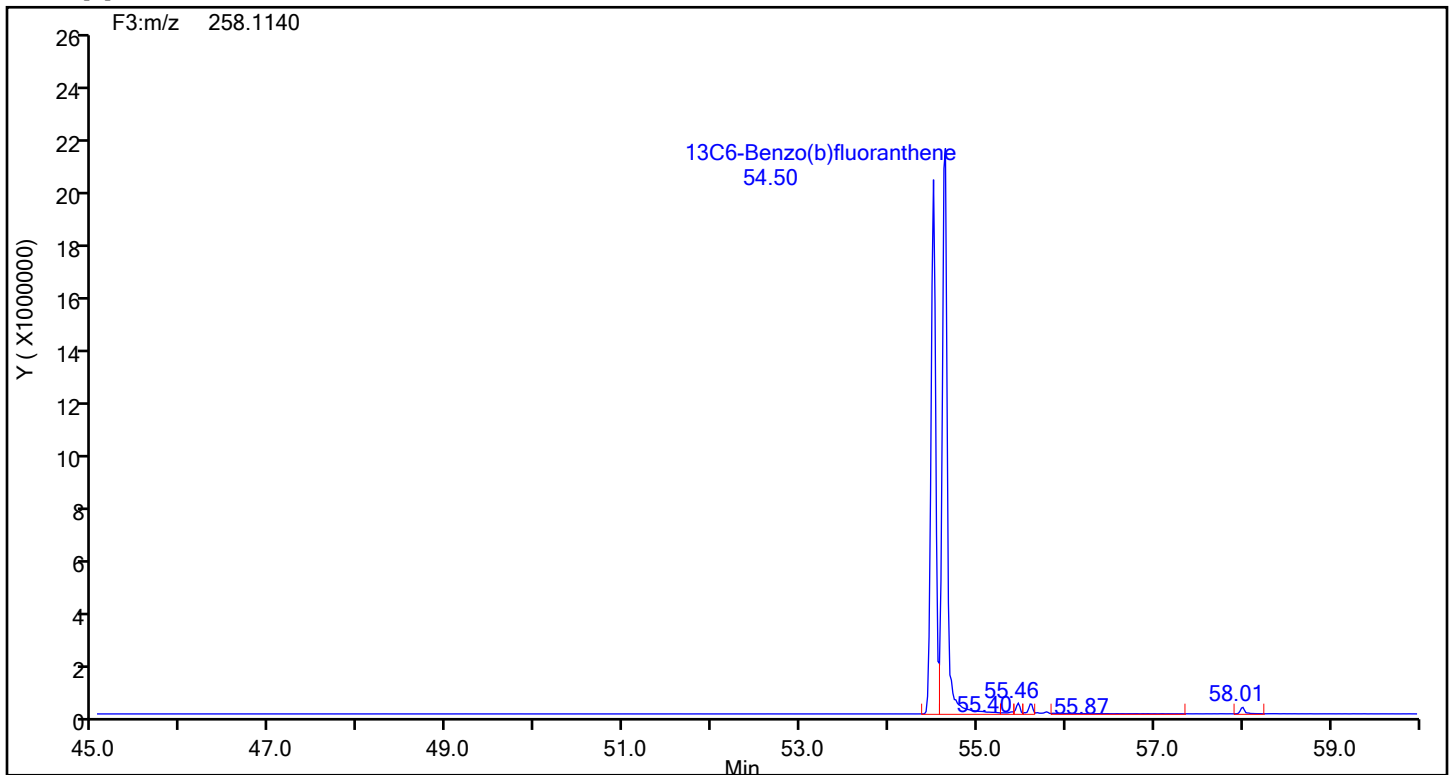
Eurofins Knoxville

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Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

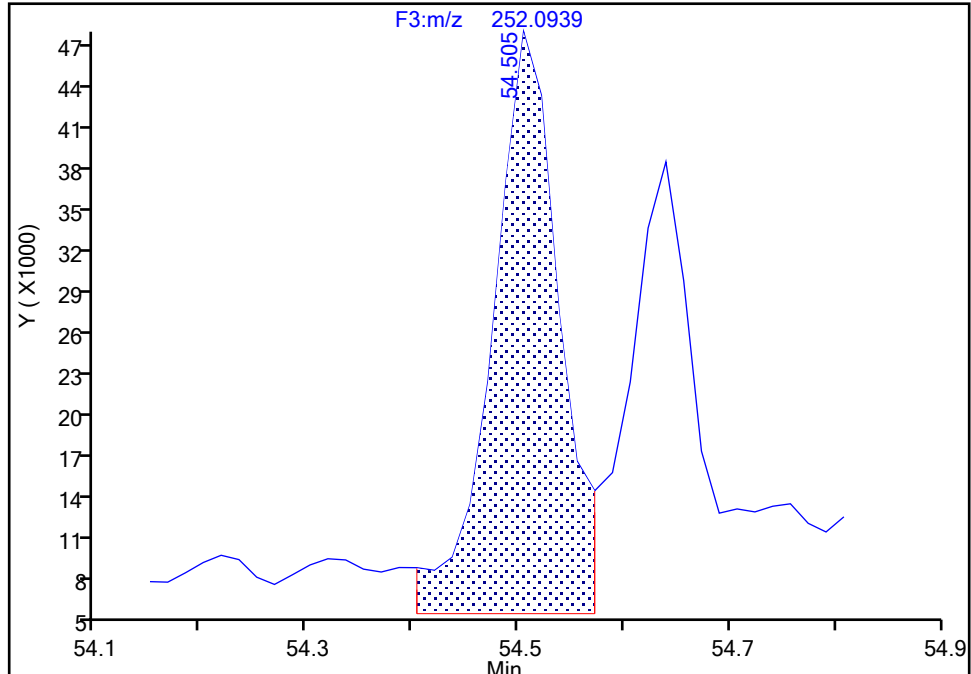
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

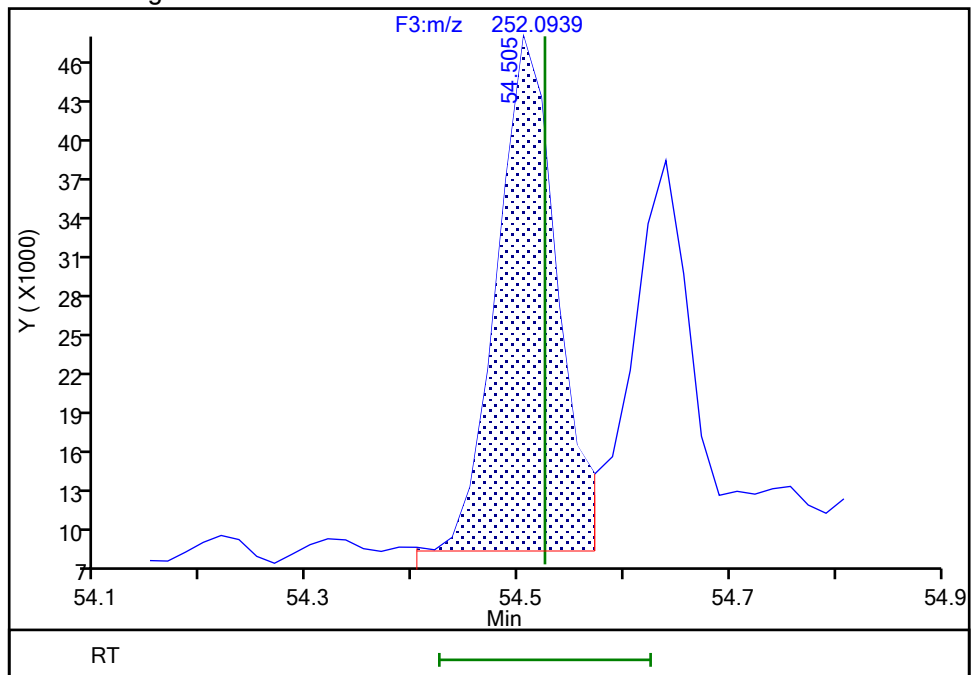
RT: 54.50
Area: 183903
Amount: 0.217813
Amount Units: pg/ul

Processing Integration Results



RT: 54.50
Area: 155734
Amount: 0.184450
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:58:45 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Knoxville

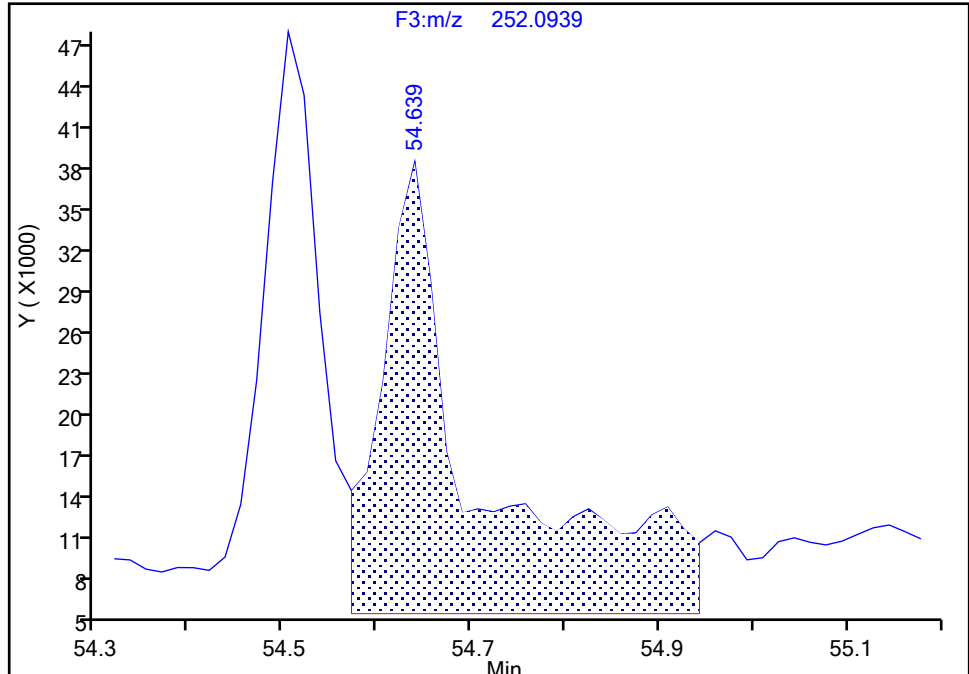
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Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

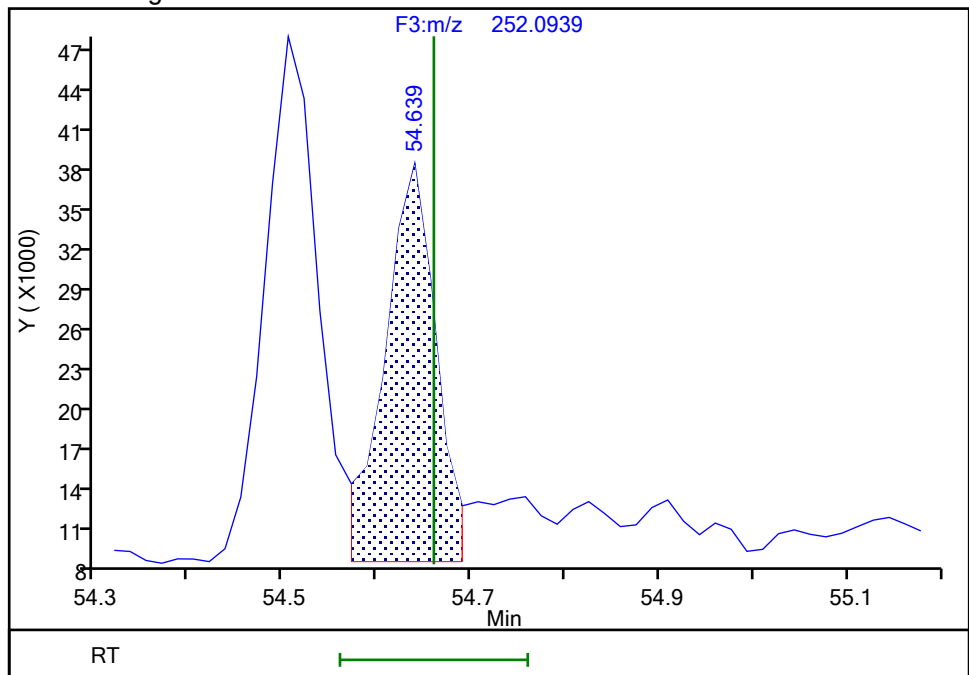
RT: 54.64
Area: 238117
Amount: 0.241601
Amount Units: pg/ul

Processing Integration Results



RT: 54.64
Area: 116289
Amount: 0.117990
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:58:37 -04:00:00 (UTC)

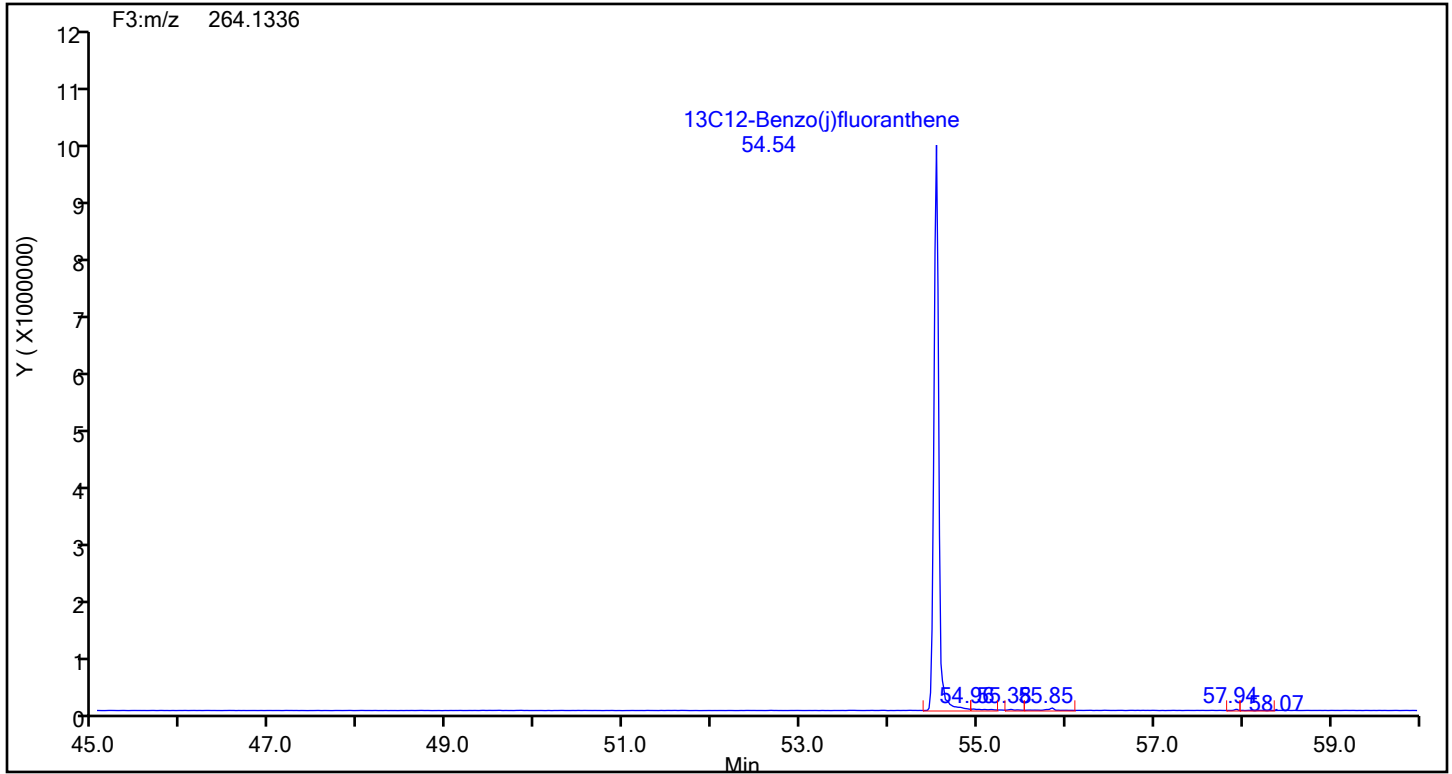
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

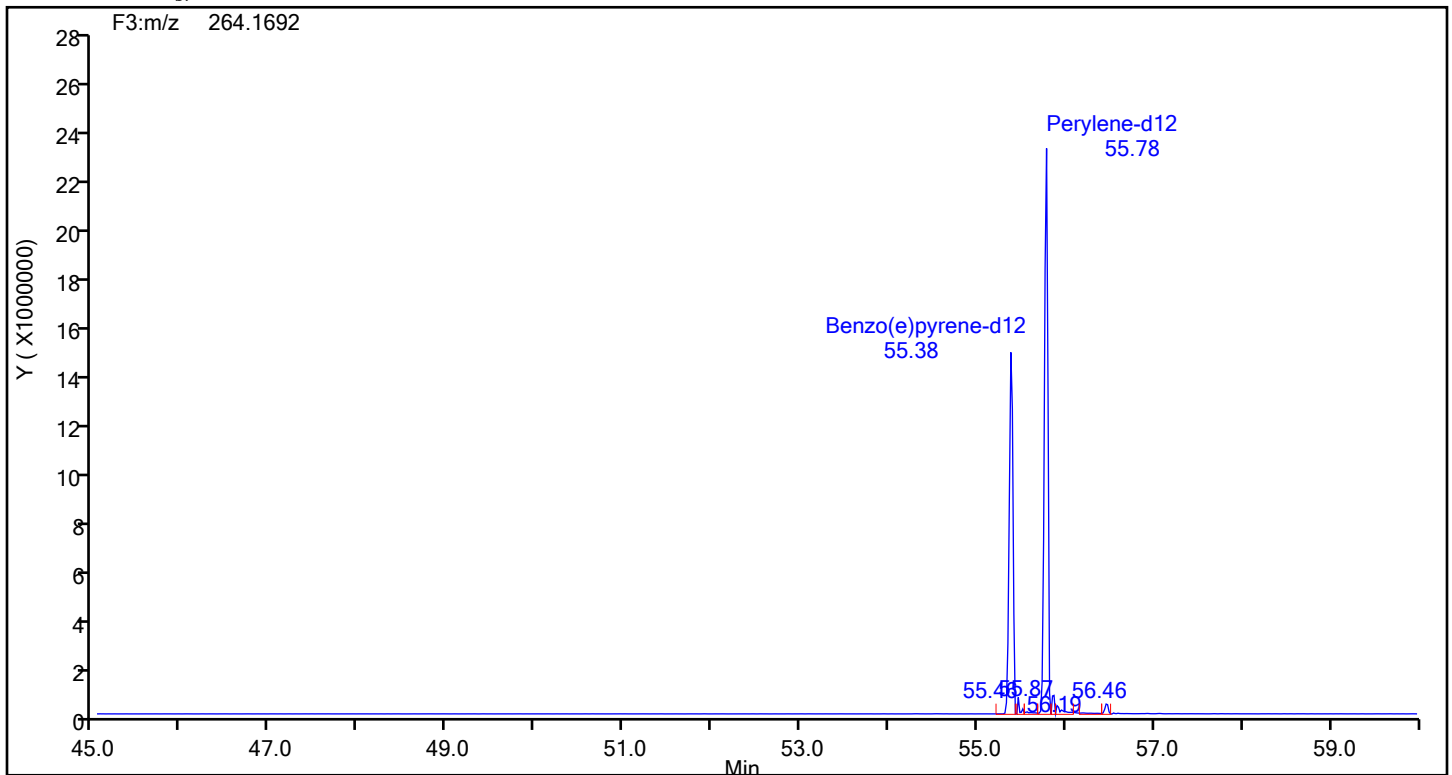
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



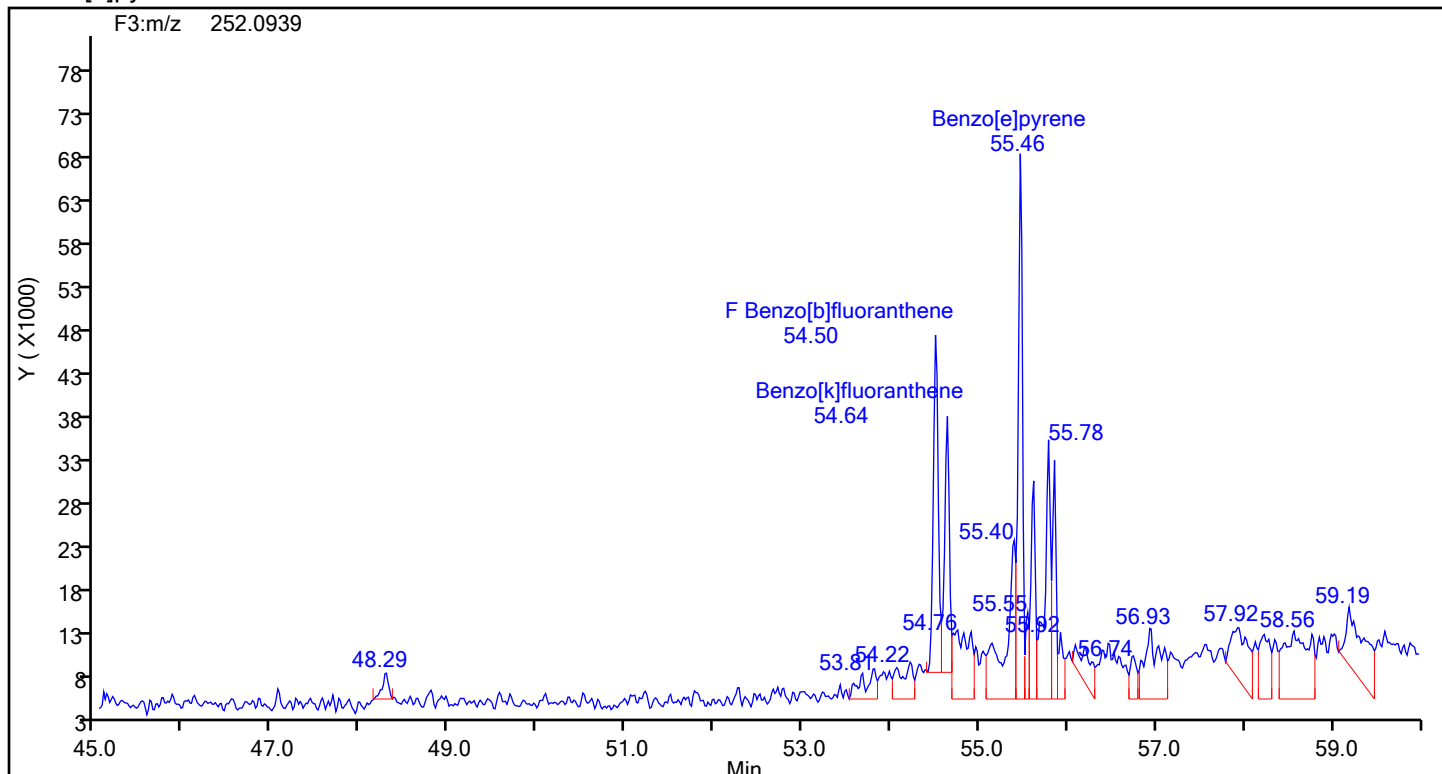
13C12-Benzo(j)fluoranthene Standards



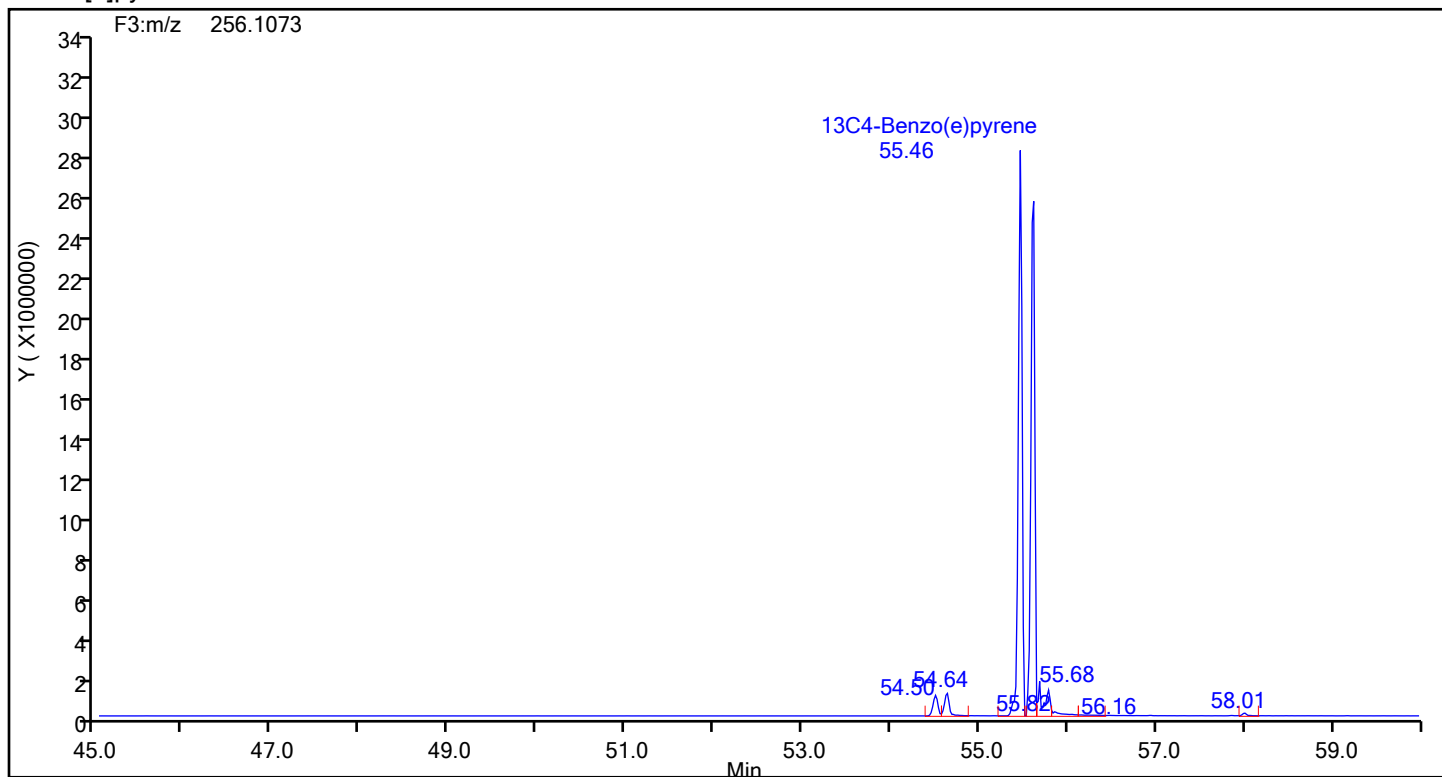
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

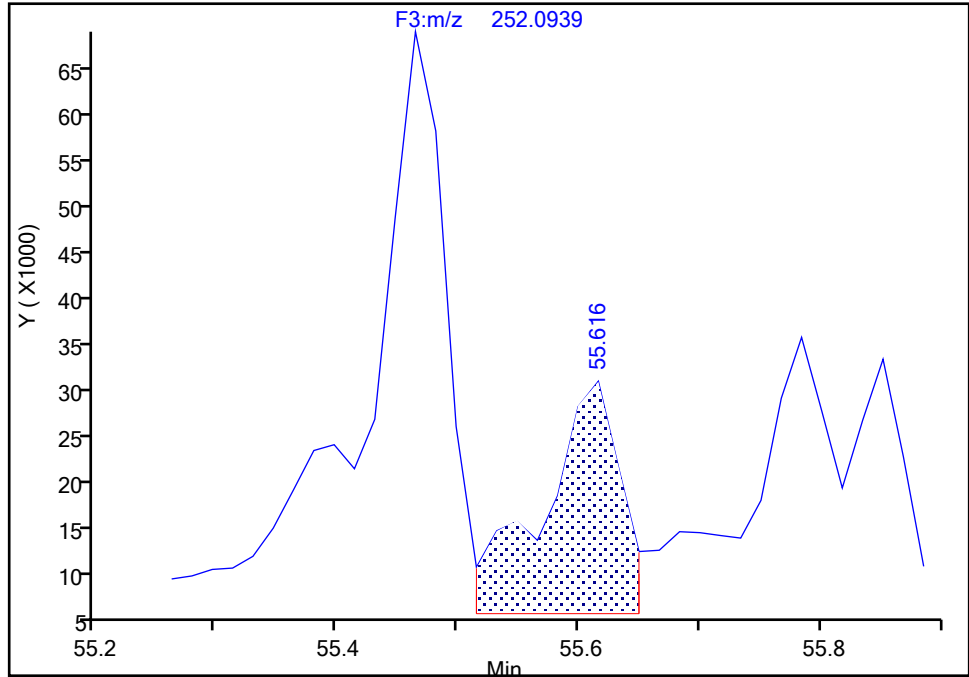
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

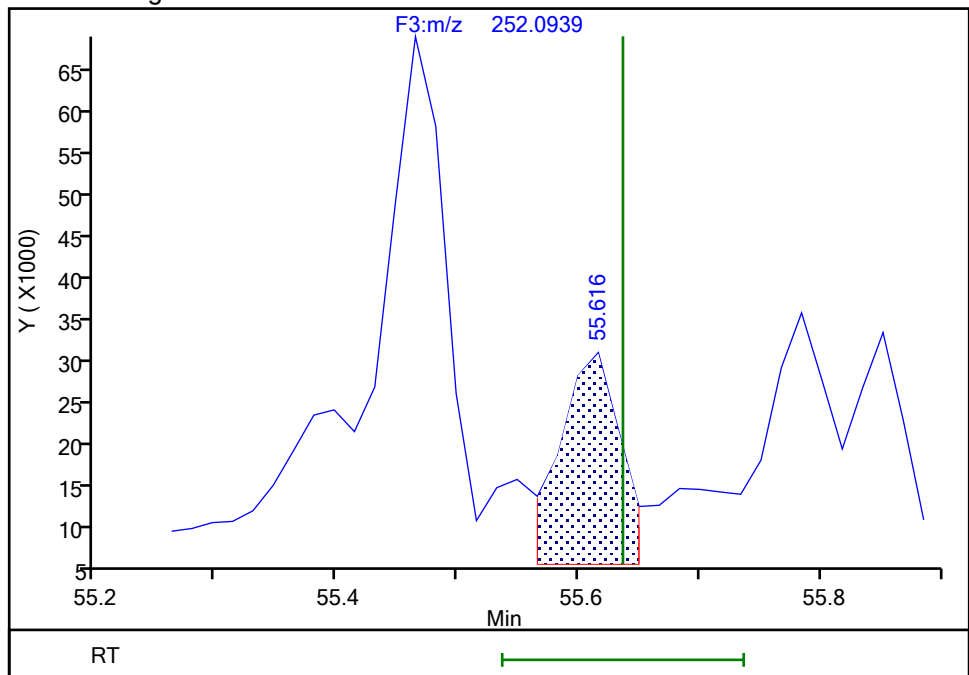
RT: 55.62
Area: 110583
Amount: 0.125919
Amount Units: pg/ul

Processing Integration Results



RT: 55.62
Area: 92152
Amount: 0.104932
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:58:04 -04:00:00 (UTC)

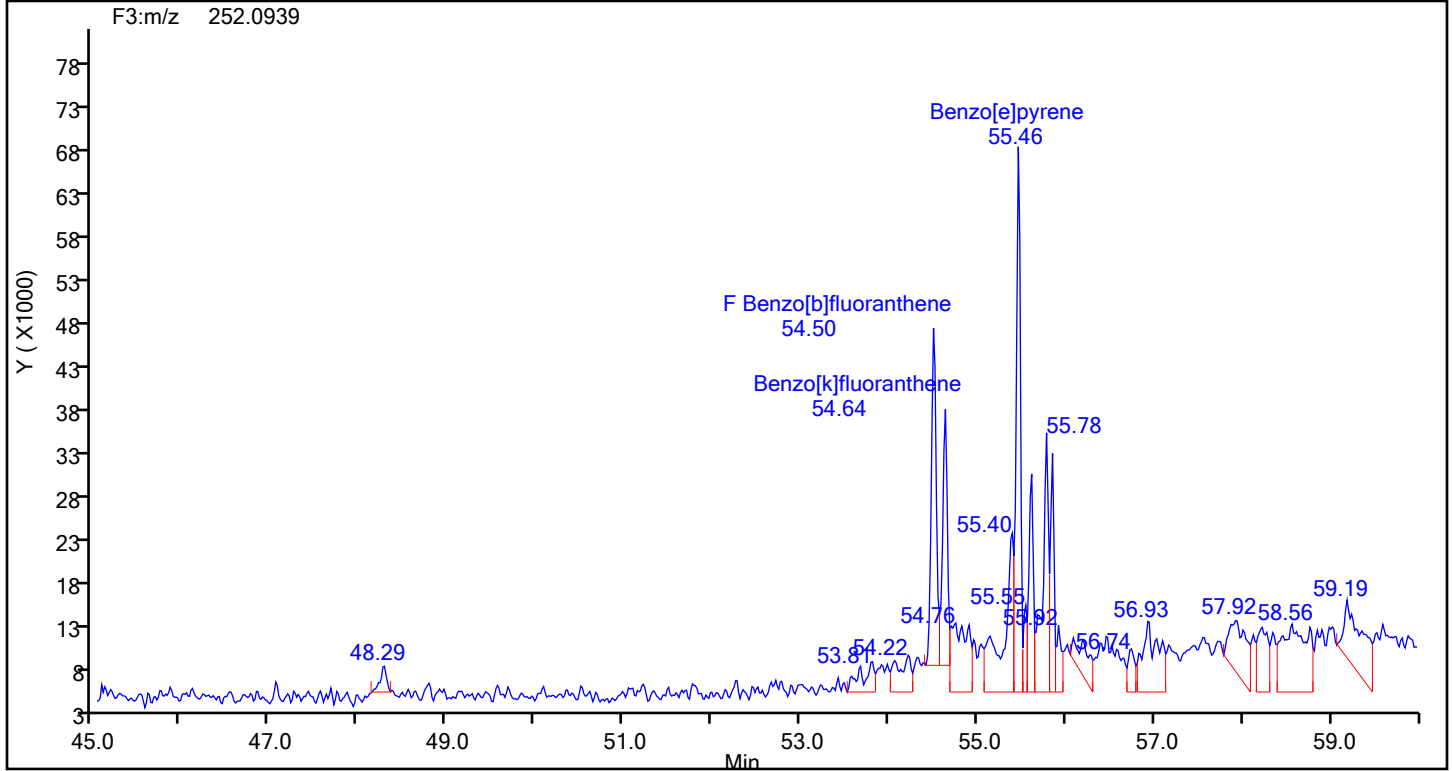
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

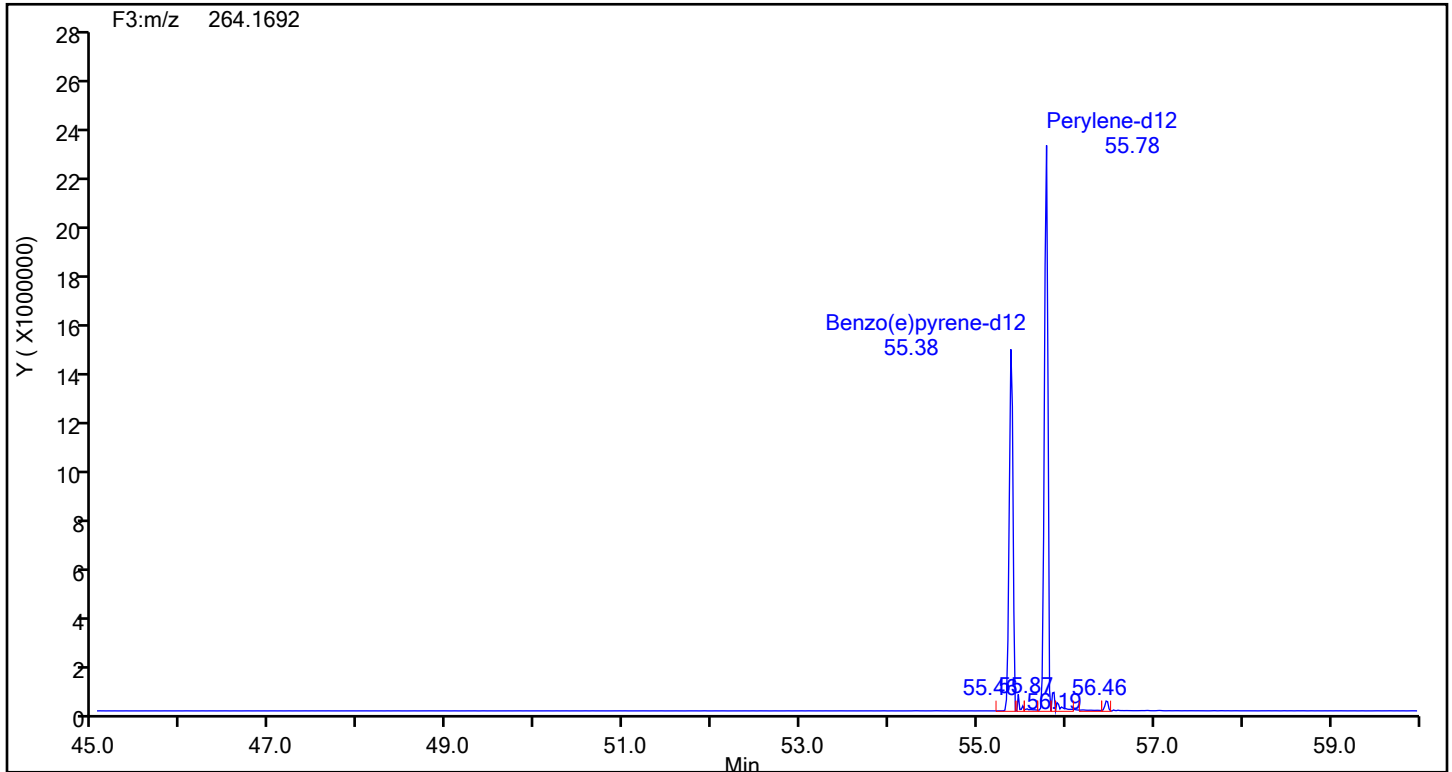
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

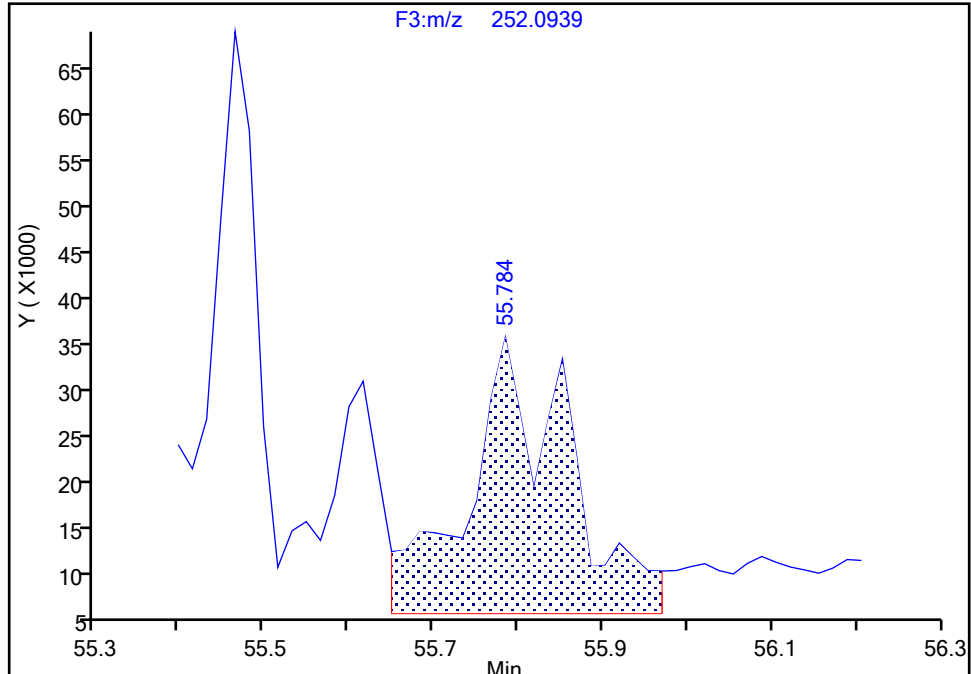
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

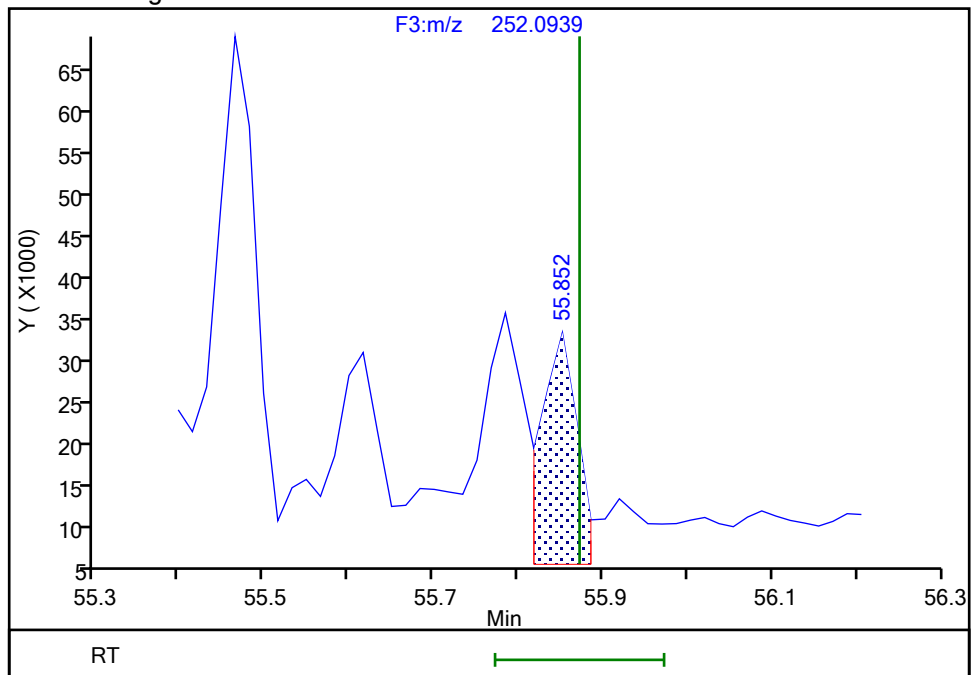
RT: 55.78
Area: 246181
Amount: 0.270573
Amount Units: pg/ul

Processing Integration Results



RT: 55.85
Area: 85565
Amount: 0.094043
Amount Units: pg/ul

Manual Integration Results



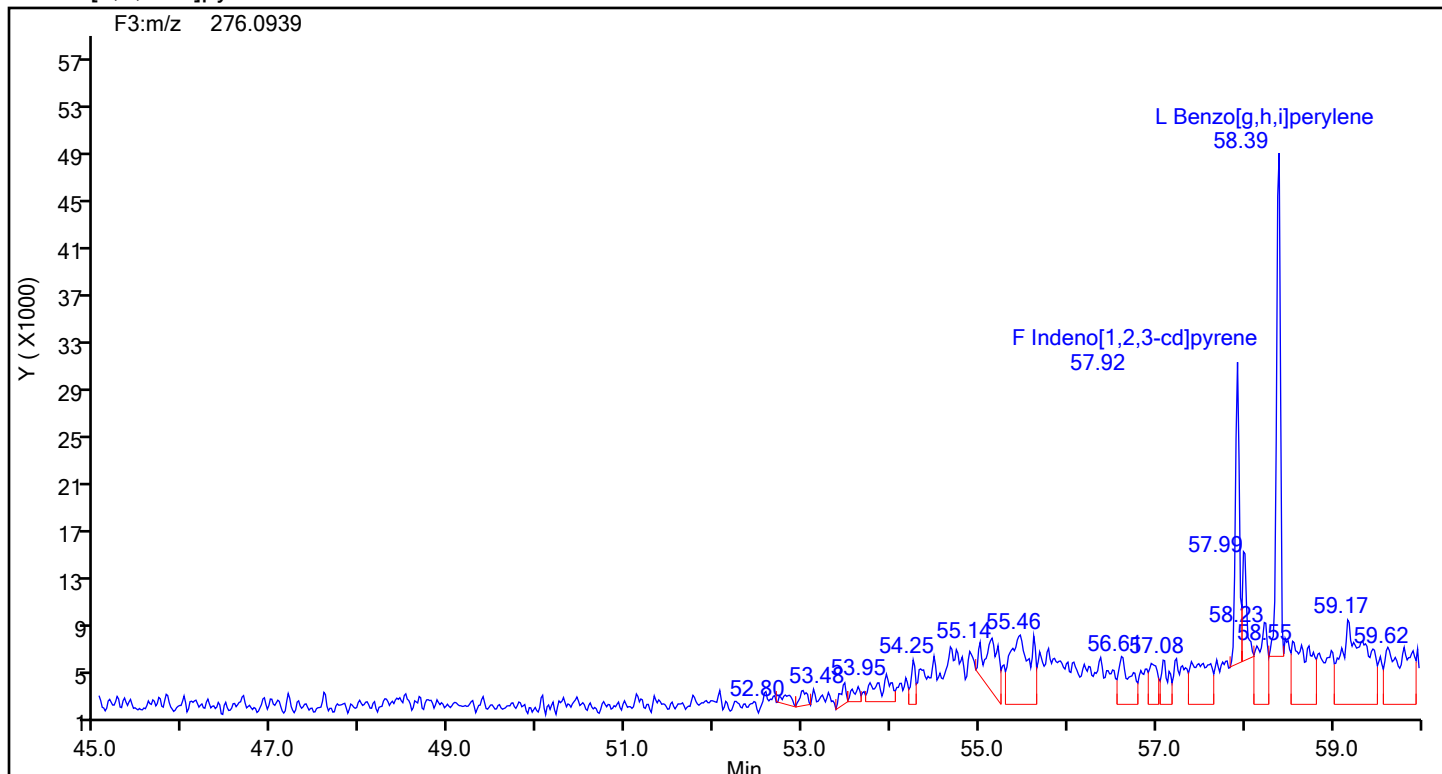
Reviewer: TT6I, 20-Jul-2024 08:57:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

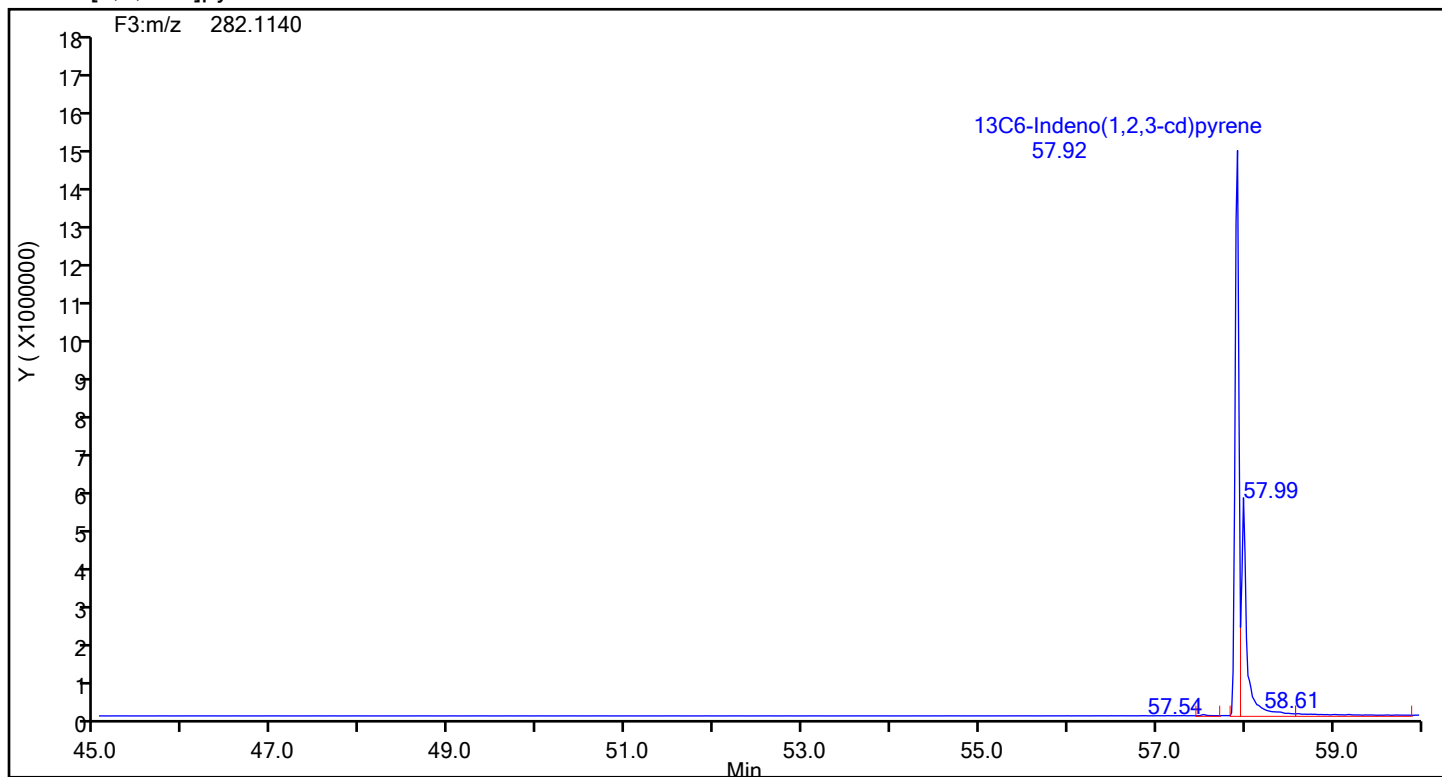
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

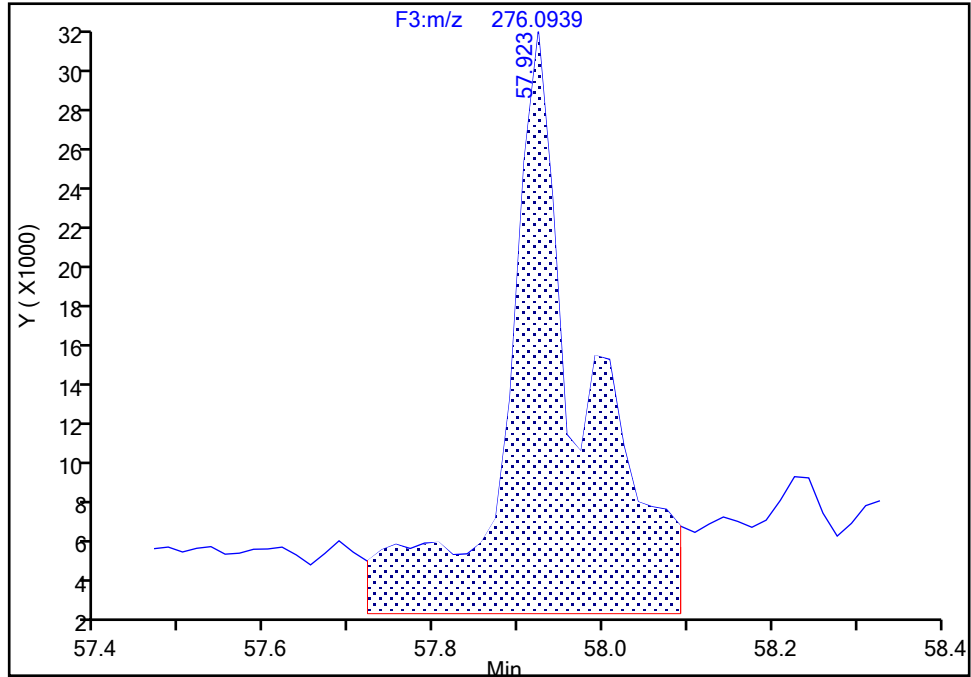
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Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

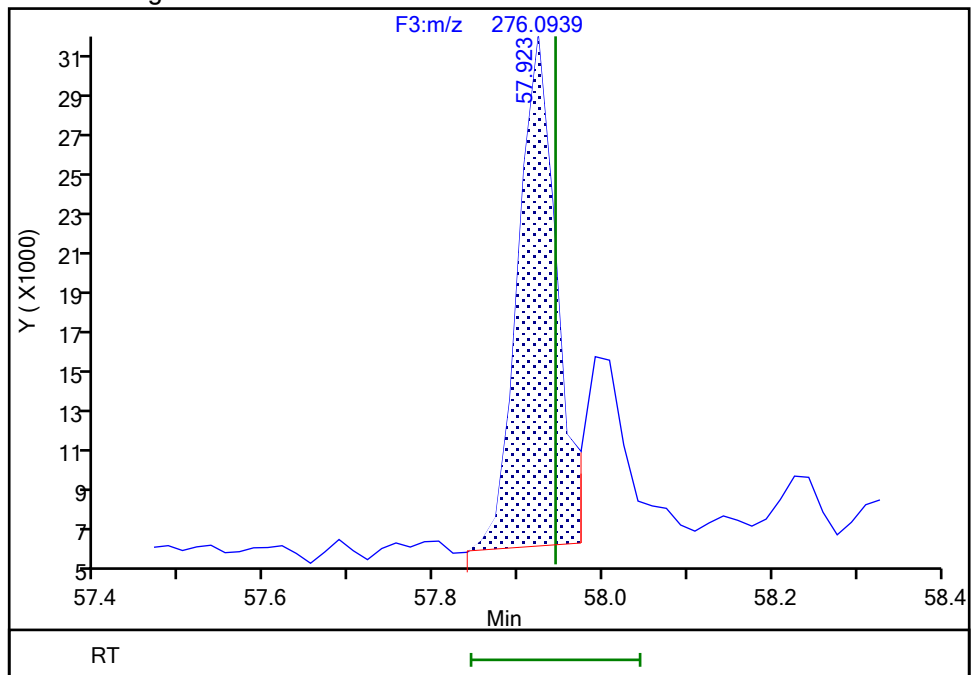
RT: 57.92
Area: 183331
Amount: 0.368732
Amount Units: pg/ul

Processing Integration Results



RT: 57.92
Area: 81112
Amount: 0.163140
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:56:34 -04:00:00 (UTC)

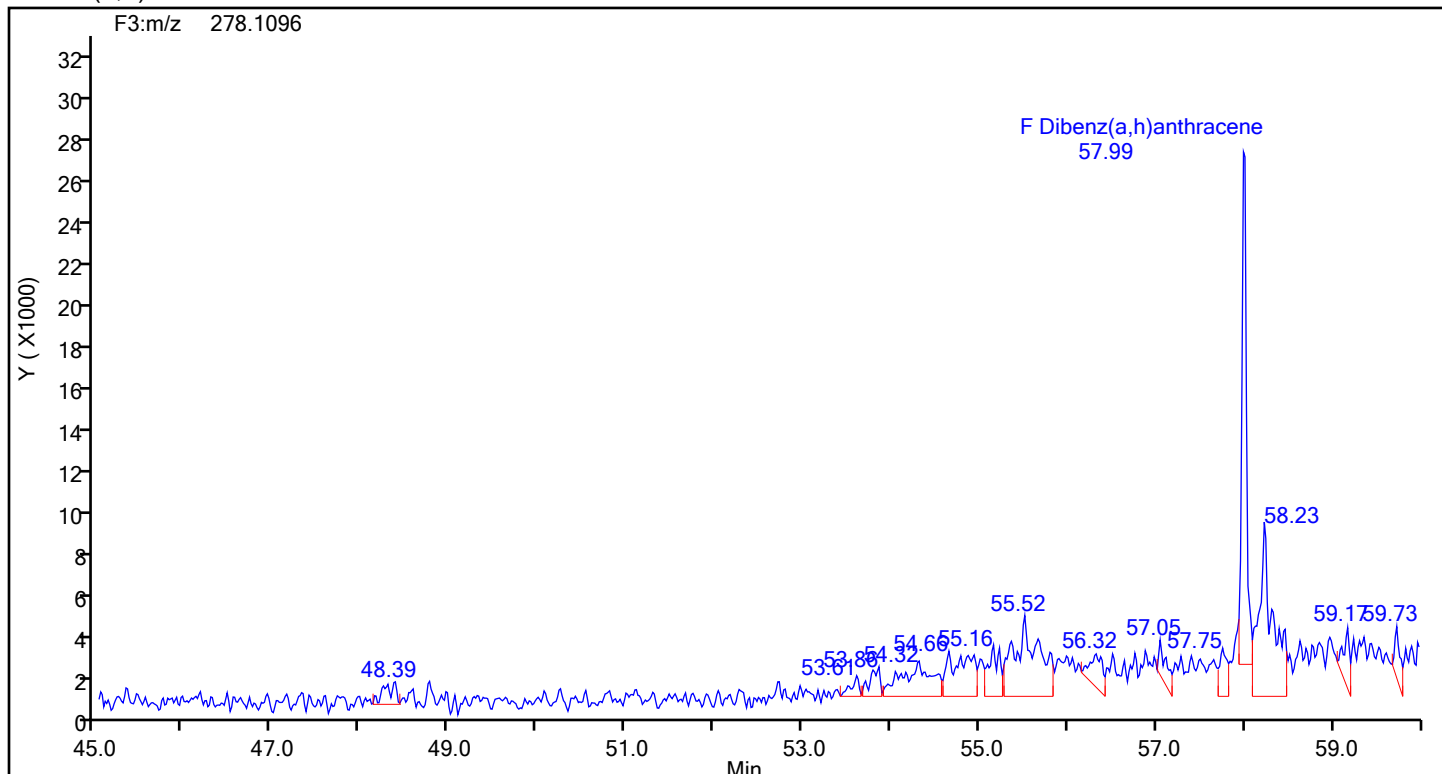
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

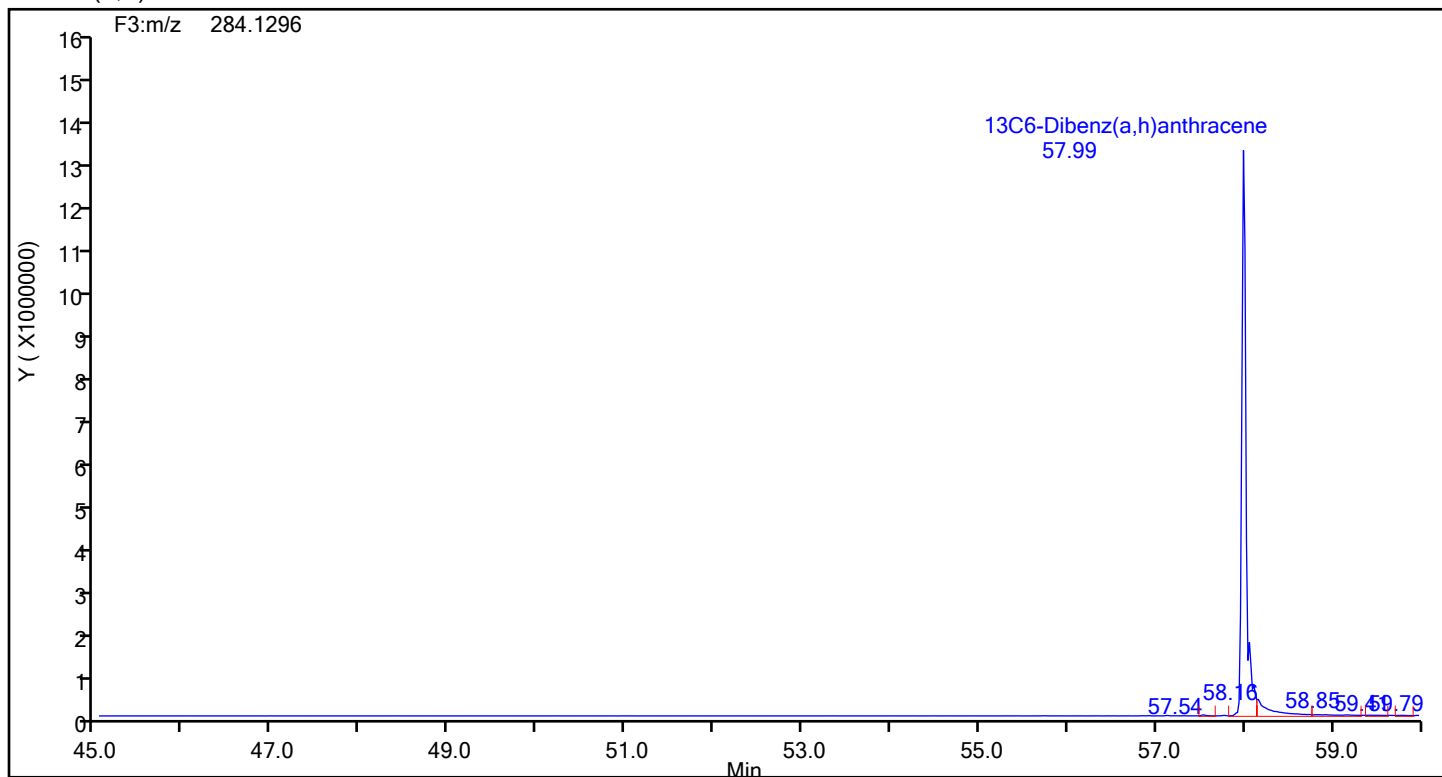
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

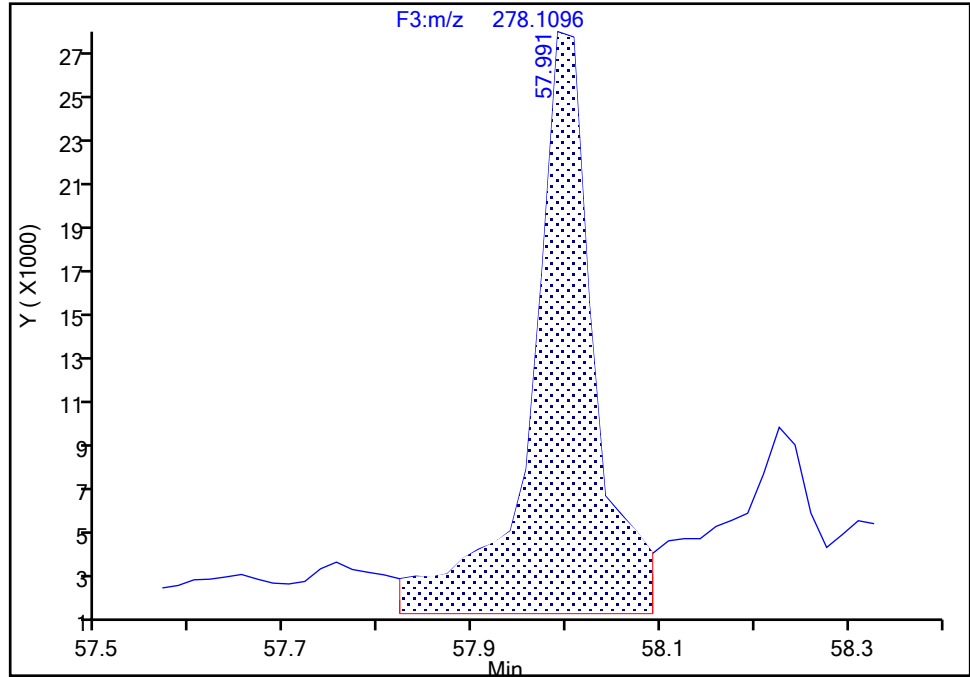
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

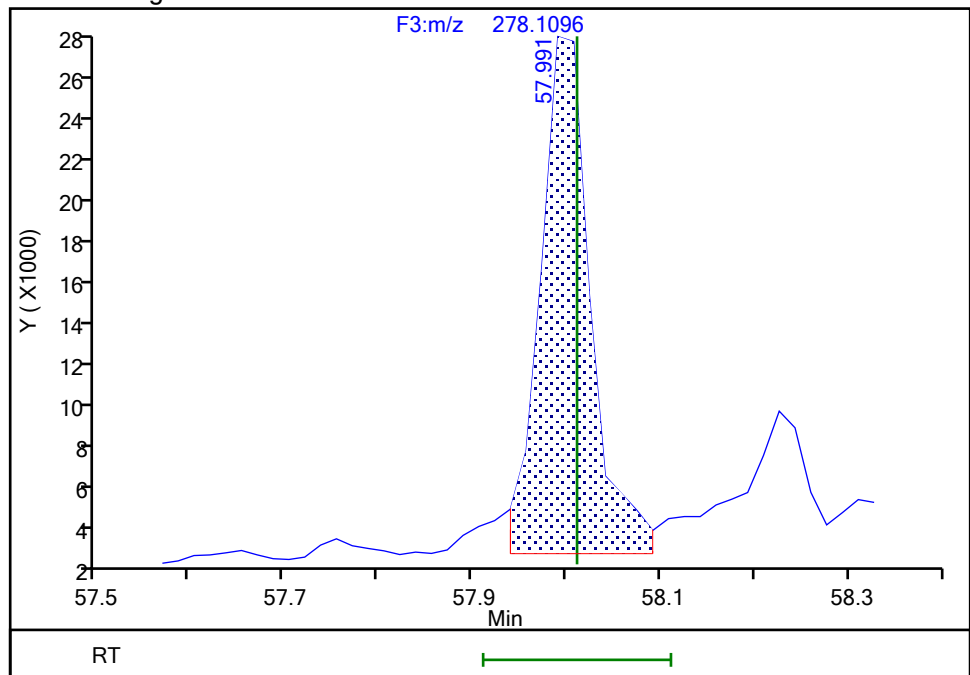
RT: 57.99
Area: 120356
Amount: 0.238377
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 91017
Amount: 0.180269
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:57:50 -04:00:00 (UTC)

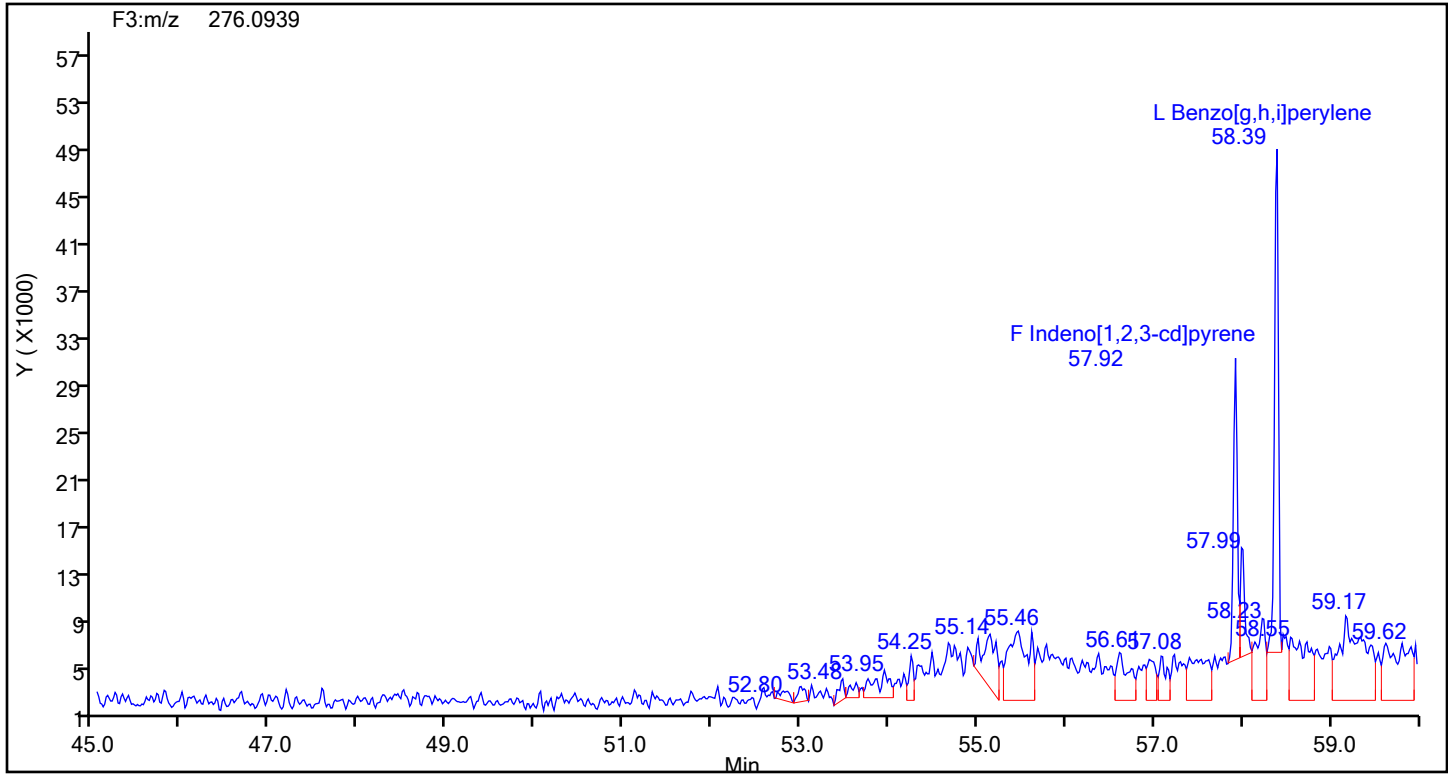
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

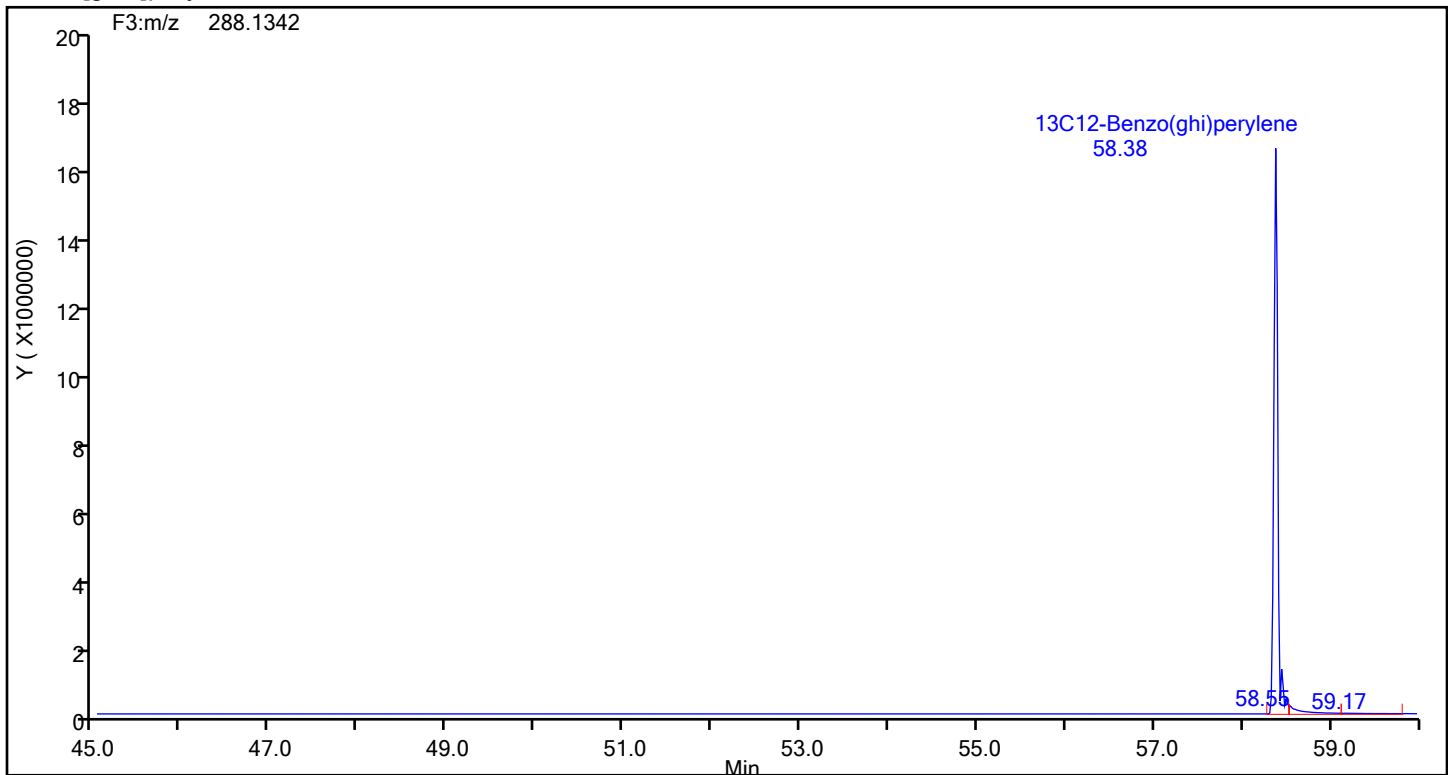
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88978 Sample Line#: 15
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

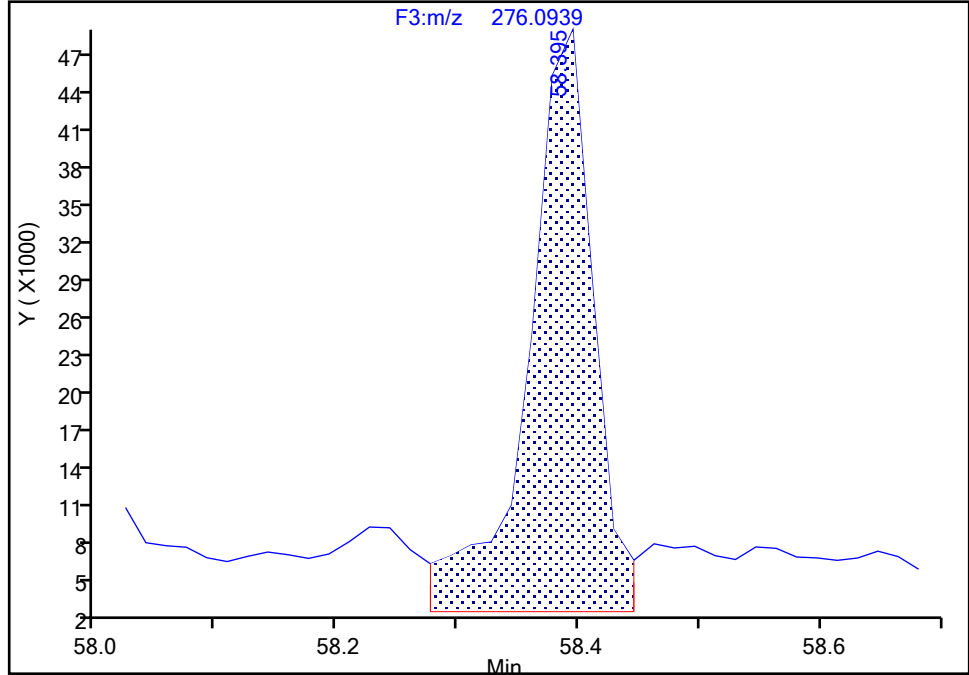
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Injection Date: 19-Jul-2024 15:05:00 Instrument ID: D3PAH
Lims ID: 140-37232-B-14-C Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

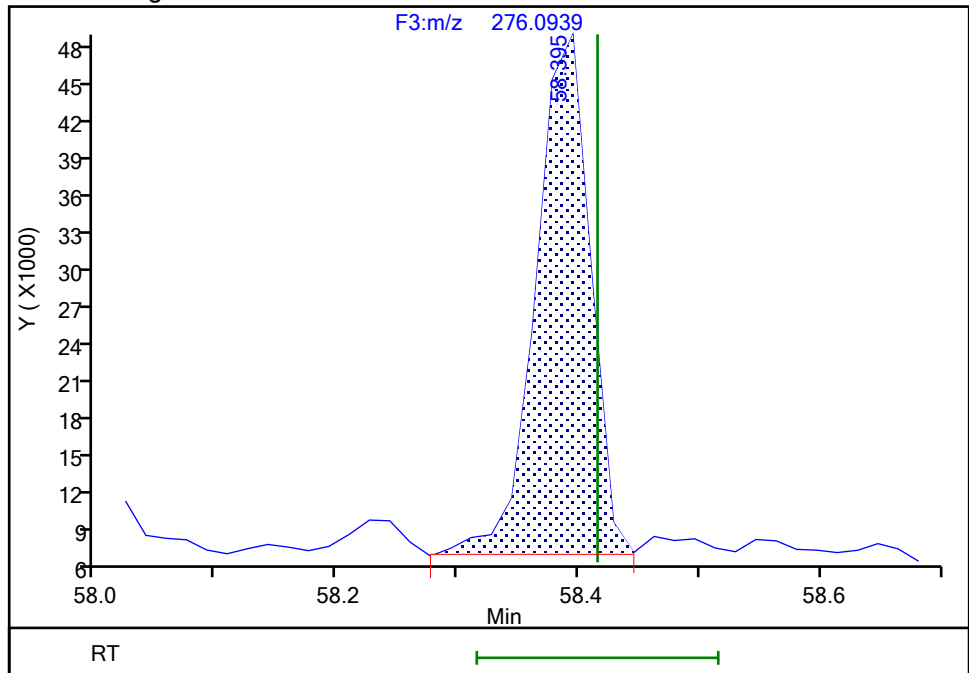
RT: 58.39
Area: 171270
Amount: 0.260591
Amount Units: pg/ul

Processing Integration Results



RT: 58.39
Area: 131558
Amount: 0.200169
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 08:58:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\140-37232-b-14-c_20240719150409.d
Lims ID: 140-37232-B-14-C
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 19-Jul-2024 15:05:00 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033585-015
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 08:59:53 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 08:59:53

Compound	Amount Added	Amount Recovered	% Rec.
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FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843
SDG No.: _____
Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Naphthalene	+++++ 1.2740	+++++ 1.1977	+++++ 1.2441	+++++ 1.3662	1.3643	AveI D		1.289 3				5.8		10.0			
2-Methylnaphthalene	+++++ 1.2688	+++++ 1.1855	+++++ 1.2246	+++++ 1.3502	1.3638	AveI D		1.278 6				6.1		10.0			
Acenaphthylene	2.6784 2.2429	2.3828 2.2569	2.2653 2.3046	2.2666 2.5987	2.2990	AveI D		2.366 1				6.8		10.0			
Acenaphthene	+++++ 1.2653	+++++ 1.1998	+++++ 1.1988	1.3821 1.2845	1.2877	AveI D		1.269 7				5.4		10.0			
Fluorene	+++++ 1.2315	+++++ 1.2055	+++++ 1.1992	1.3195 1.2909	1.2723	AveI D		1.253 2				3.9		10.0			
Phenanthrene	+++++ 1.0972	+++++ 1.0506	+++++ 1.0450	1.1979 1.1153	1.1206	AveI D		1.104 4				5.1		10.0			
Anthracene	+++++ 1.3426	1.5578 1.3143	1.3186 1.2821	1.3527 1.3891	1.3116	AveI D		1.358 6				6.4		10.0			
Fluoranthene	+++++ 1.1051	+++++ 1.0896	1.2143 1.1192	1.1513 1.2379	1.1420	AveI D		1.151 3				4.8		10.0			
Pyrene	+++++ 1.0283	+++++ 0.9988	1.1693 1.0231	1.0690 1.1151	1.0527	AveI D		1.065 2				5.6		10.0			
Benzo[a]anthracene	1.0378 0.9499	1.0605 0.9201	0.9423 0.9245	0.9658 1.0128	0.9510	AveI D		0.973 9				5.2		10.0			
Chrysene	+++++ 0.9465	+++++ 0.9264	1.1064 0.9360	0.9877 1.0045	0.9627	AveI D		0.981 5				6.3		10.0			
Benzo[b]fluoranthene	+++++ 1.0793	+++++ 1.0465	+++++ 1.0882	1.1713 1.2553	1.1089	AveI D		1.124 9				6.8		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843
SDG No.: _____
Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.2472 1.0508	1.3438 1.0426	1.0689 1.0745	1.1243 1.1190	1.0725	AveI n		1.127 1				9.1		10.0			
Benzo[e]pyrene	++++ 0.9413	++++ 0.9383	1.0083 0.9695	1.0829 1.0972	0.9714	AveI n		1.001 3				6.5		10.0			
Benzo[a]pyrene	1.2413 1.0507	1.2097 1.0601	1.1008 1.0871	1.1041 1.0970	1.0663	AveI n		1.113 0				6.0		10.0			
Perylene	++++ 1.3430	1.6018 1.4021	1.4662 1.4991	1.3101 ++++	1.3924	AveI n		1.430 7				7.0		10.0			
Indeno[1,2,3-cd]pyrene	++++ 1.1372	1.2057 0.9694	1.0985 1.0491	1.0578 1.3169	1.1649	AveI n		1.124 9				9.5		10.0			
Dibenz(a,h)anthracene	1.3561 1.0868	1.2167 1.0261	1.1041 1.0857	1.1015 1.1719	1.0336	AveI n		1.131 4				9.2		10.0			
Benzo[g,h,i]perylene	1.5167 1.1661	1.4345 1.1407	1.2918 1.2066	1.2677 1.3356	1.1941	AveI n		1.283 8				9.9		10.0			
13C6-Naphthalene	3.5973 2.9472	3.4322 3.3920	3.4274 3.3947	3.3734 3.2062	3.6005	Ave		3.374 6				5.9		20.0			
13C6-2-Methylnaphthalene	1.6583 1.5528	1.6409 1.6170	1.5405 1.6352	1.5807 1.5809	1.6213	Ave		1.603 1				2.6		20.0			
13C6-Acenaphthylene	1.6044 1.6538	1.6081 1.6587	1.6082 1.7178	1.6578 1.7056	1.6537	Ave		1.652 0				2.5		20.0			
13C6-Acenaphthene	0.9572 0.9760	0.9381 0.9858	0.9763 1.0256	0.9788 1.0118	0.9629	Ave		0.979 2				2.7		20.0			
13C6-Fluorene	0.8310 0.8771	0.8561 0.9159	0.8654 0.9652	0.8922 0.9362	0.8695	Ave		0.889 8				4.7		20.0			
13C6-Phenanthrene	0.5246 0.5425	0.5288 0.6157	0.5428 0.5975	0.5717 0.6555	0.5727	Ave		0.572 4				7.7		20.0			
13C6-Anthracene	0.4234 0.4320	0.4124 0.4654	0.4314 0.4797	0.4639 0.5202	0.4426	Ave		0.452 3				7.4		20.0			
13C6-Fluoranthrene	1.1421 1.1826	1.1184 1.2233	1.1546 1.2863	1.1716 1.3210	1.1945	Ave		1.199 4				5.6		20.0			
13C3-Pyrene	1.2796 1.3316	1.2672 1.3725	1.2929 1.4321	1.3132 1.5463	1.3256	Ave		1.351 2				6.6		20.0			
13C6-Benzo(a)anthracene	1.5027 1.4059	1.5257 1.4631	1.5230 1.5491	1.5373 1.7000	1.4635	Ave		1.518 9				5.4		20.0			
13C6-Chrysene	1.5556 1.5154	1.6290 1.6008	1.5920 1.6940	1.6297 1.8610	1.5809	Ave		1.628 7				6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
13C6-Benzo(b) fluoranthene	1.3920 1.3858	1.3914 1.4856	1.3818 1.5115	1.4420 1.7208	1.4477	Ave		1.462 1				7.4		20.0			
13C6-Benzo(k) fluoranthene	1.6120 1.6283	1.6254 1.7447	1.6680 1.8711	1.6736 2.2366	1.6964	Ave		1.750 7				11.4		20.0			
13C4-Benzo(e) pyrene	1.5550 1.5552	1.5654 1.5995	1.5939 1.6980	1.6231 1.9720	1.5695	Ave		1.636 8				8.2		20.0			
13C4-Benzo(a) pyrene	1.4368 1.4481	1.4655 1.5126	1.4658 1.6321	1.5002 2.0077	1.4884	Ave		1.550 8				11.7		20.0			
Perylene-d12	1.1189 1.1713	1.1558 1.2079	1.1423 1.2224	1.2123 1.3085	1.1859	Ave		1.191 7				4.7		20.0			
13C6-Indeno(1,2,3-cd) pyrene	0.9703 0.8971	1.0776 1.0949	0.9397 1.0881	1.0292 1.1905	0.9092	Ave		1.021 8				9.7		20.0			
13C6-Dibenz(a,h) anthracene	1.0039 0.9605	1.0767 1.0536	0.9694 1.1147	0.9954 1.3084	1.0148	Ave		1.055 3				10.2		20.0			
13C12-Benzo(ghi) perylene	1.1709 1.2067	1.2991 1.3022	1.1834 1.3399	1.2085 1.5312	1.2320	Ave		1.274 9				8.8		20.0			
Anthracene-d10	0.4088 0.4160	0.4109 0.4400	0.4037 0.4414	0.4246 0.4596	0.4264	Ave		0.425 7				4.3					
13C6-Benzo(c) fluorene	0.5442 0.5354	0.5341 0.5157	0.5189 0.5105	0.4536 0.5004	0.5094	Ave		0.513 6				5.2					
13C12-Benzo(j) fluoranthene	1.2934 1.2806	1.3065 1.3672	1.2863 1.4328	1.2939 1.6483	1.2936	Ave		1.355 8				8.9					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene		AveID	++++ 11077976	++++ 29145441	++++ 66534766	++++ 201858027	7473056	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
2-Methylnaphthalene		AveID	++++ 5812992	++++ 13752752	++++ 31544481	++++ 98360151	3363658	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
Acenaphthylene		AveID	70974 6459116	133174 15960871	269411 37234784	1541031 121166606	3367785	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Acenaphthene		AveID	++++ 3643698	++++ 8485152	++++ 19367968	939646 59890100	1886298	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Fluorene		AveID	++++ 3186786	++++ 7921341	++++ 18232964	817773 55690348	1683007	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Phenanthrene		AveID	++++ 3681835	++++ 10408886	++++ 23294554	1073406 72771385	2244288	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Anthracene		AveID	++++ 3587223	91204 9842331	160718 22947314	983685 71918449	2030307	++++ 80.0	2.00 200	4.00 400	20.0 1000	50.0
Fluoranthene		AveID	++++ 8083123	++++ 21447849	396095 53709863	2114329 162763939	4770414	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Pyrene		AveID	++++ 8469657	++++ 22057676	427111 54662936	2200520 171639473	4880169	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]anthracene		AveID	78927 6207787	162720 15614632	282836 39547814	1488098 124165534	3701131	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Chrysene		AveID	++++ 6667789	++++ 17201644	347139 43785996	1613361 134817195	4046826	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[b]fluoranthene		AveID	++++ 6952921	++++ 18032275	++++ 45422181	1692873 155779264	4268765	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Benzo[k]fluoranthene		AveID	101746 7954022	219658 21097665	351417 55519685	1885945 180500584	4838139	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Benzo[e]pyrene		AveID	++++ 6804856	++++ 17407219	316746 45463447	1761621 156044174	4054021	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]pyrene		AveID	90261	178284	318019	1660260	4220425	1.00	2.00	4.00	20.0	50.0

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			7072659	18599410	48994654	158831908		80.0	200	400	1000	
Perylene		AveID	++++ 7312149	186178 19642615	330090 50605936	1591843 ++++	4390716	++++ 80.0	2.00 200	4.00 400	20.0 ++++	50.0
Indeno[1,2,3-cd]pyrene		AveID	++++ 4742305	130664 12310533	203445 31522628	1091218 113067905	2816296	++++ 80.0	2.00 200	4.00 400	20.0 1000	50.0
Dibenz(a,h)anthracene		AveID	68899 4852505	131743 12538607	210948 33420949	1098846 110582572	2789079	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Benzo[g,h,i]perylene		AveID	89871 6540833	187407 17229589	301308 44647127	1535539 147488032	3911770	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
13C6-Naphthalene	ANT	Ave	9958539 10869499	10224350 12167731	10437430 13369772	11716317 14774767	10955076	100 100	100 100	100 100	100 100	100
13C6-2-Methylnaphthalene	ANT	Ave	4590652 5726757	4888063 5800321	4691404 6439882	5490022 7285064	4932932	100 100	100 100	100 100	100 100	100
13C6-Acenaphthylene	ANT	Ave	4441490 6099396	4790245 5949897	4897592 6765535	5757839 7859583	5031692	100 100	100 100	100 100	100 100	100
13C6-Acenaphthene	ANT	Ave	2649873 3599722	2794458 3536065	2973262 4039150	3399456 4662594	2929756	100 100	100 100	100 100	100 100	100
13C6-Fluorene	ANT	Ave	2300375 3234715	2550369 3285389	2635457 3801144	3098767 4314043	2645576	100 100	100 100	100 100	100 100	100
13C6-Phenanthrene	PYR	Ave	3481612 4194540	3753474 4953590	3834191 5572957	4480403 6524734	4005566	100 100	100 100	100 100	100 100	100
13C6-Anthracene	PYR	Ave	2810000 3339808	2927417 3744430	3047129 4474470	3635963 5177443	3095933	100 100	100 100	100 100	100 100	100
13C6-Fluoranthrene	PYR	Ave	7580251 9143194	7938309 9842103	8154780 11997910	9182667 13148739	8354538	100 100	100 100	100 100	100 100	100
13C3-Pyrene	PYR	Ave	8492459 10295818	8994056 11042272	9131545 13356986	10292274 15391681	9271369	100 100	100 100	100 100	100 100	100
13C6-Benzo(a)anthracene	BePdl 2	Ave	7605148 8168778	7671524 8485215	7504068 10694535	7704055 12260100	7783391	100 100	100 100	100 100	100 100	100
13C6-Chrysene	BePdl 2	Ave	7872763 8805464	8190879 9283915	7844204 11695295	8166961 13421719	8407429	100 100	100 100	100 100	100 100	100
13C6-Benzo(b)fluoranthene	BePdl 2	Ave	7044571 8052237	6995957 8615715	6808556 10435051	7226370 12410189	7699352	100 100	100 100	100 100	100 100	100
13C6-Benzo(k)fluoranthene	BePdl 2	Ave	8157925 9461461	8172987 10118186	8218810 12917530	8387092 16130058	9021801	100 100	100 100	100 100	100 100	100
13C4-Benzo(e)pyrene	BePdl 2	Ave	7869617 9036295	7870944 9276322	7853527 11723054	8133857 14222064	8346864	100 100	100 100	100 100	100 100	100

FORM VI
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87843

SDG No.: _____

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C4-Benzo(a)pyrene	BePdl 2	Ave	7271246	7368833	7222186	7518310	7915726	100	100	100	100	100
			8413993	8772202	11267474	14479273		100	100	100	100	
Perylene-d12	BePdl 2	Ave	5662636	5811383	5628212	6075448	6306802	100	100	100	100	100
			6805855	7004851	8439141	9436646		100	100	100	100	
13C6-Indeno(1,2,3-cd)pyrene	BePdl 2	Ave	4910654	5418391	4630053	5157889	4835402	100	100	100	100	100
			5212706	6349503	7511958	8585756		100	100	100	100	
13C6-Dibenz(a,h)anthracene	BePdl 2	Ave	5080699	5414078	4776504	4988169	5397040	100	100	100	100	100
			5580937	6110020	7695778	9436274		100	100	100	100	
13C12-Benzo(ghi)perylene	BePdl 2	Ave	5925593	6532018	5830946	6056294	6552075	100	100	100	100	100
			7011632	7551974	9250572	11042946		100	100	100	100	
Anthracene-d10	PYR	Ave	2713232	2916395	2851175	3328133	2982348	100	100	100	100	100
			3216411	3540252	4116582	4574361		100	100	100	100	
13C6-Benzo(c)fluorene	PYR	Ave	3611915	3790719	3665129	3555493	3562609	100	100	100	100	100
			4139575	4148931	4761886	4981238		100	100	100	100	
13C12-Benzo(j)fluoranthene	BePdl 2	Ave	6545559	6569551	6337903	6484034	6879595	100	100	100	100	100
			7440700	7928880	9891565	11887745		100	100	100	100	

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

Resolution Check Report (DFS SN: 3439)

Date: 19 Jun 2024 16:18
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

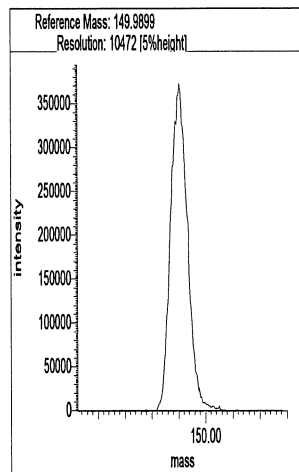
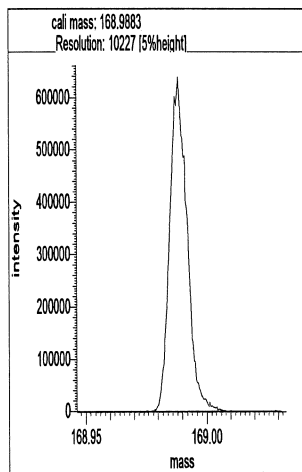
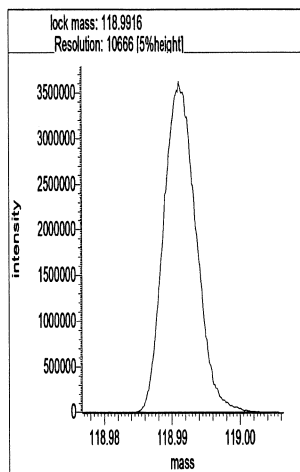
- 23240619 r16

Segment 1

Lock mass 118.9916 [m/z] Resolution: 10666 [5%height]

Cali. mass 168.9883 [m/z] Resolution: 10227 [5%height]

Ref. mass 149.9899 [m/z] Resolution: 10472 [5%height]

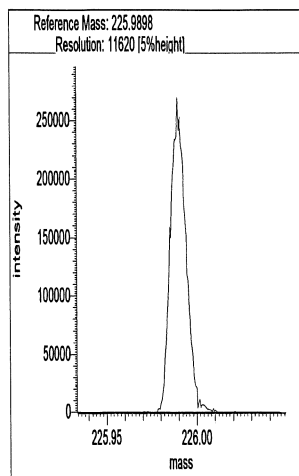
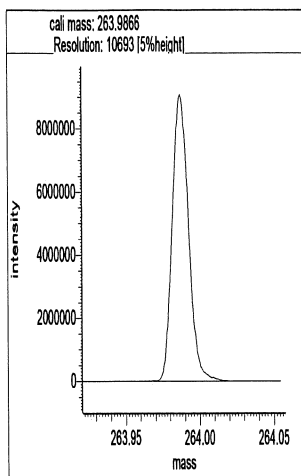
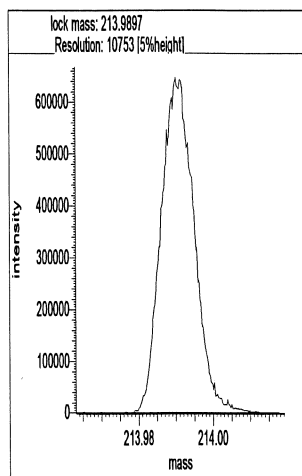


Segment 2

Lock mass 213.9897 [m/z] Resolution: 10753 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10693 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11620 [5%height]

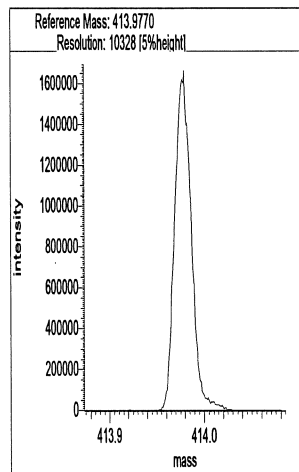
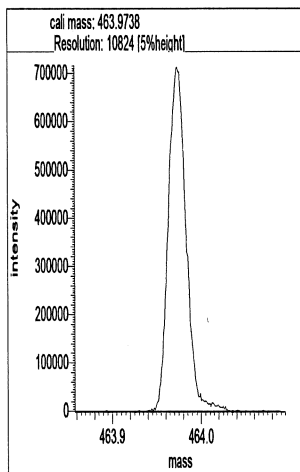
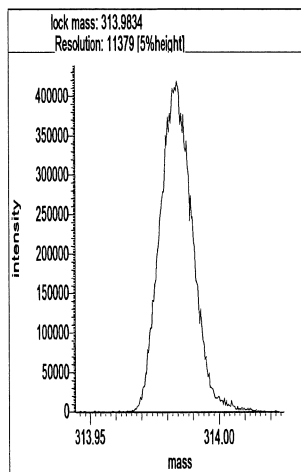


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11379 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10824 [5%height]

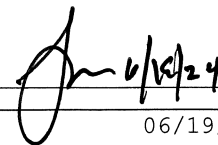
Ref. mass 413.9770 [m/z] Resolution: 10328 [5%height]



Reports

16:26:06: Peak matching procedure started
16:26:07:
16:26:07: Reference mass: 263.98656
16:26:08: Sample mass: 414.0
16:26:08:
16:26:09: Finding reference mass
16:26:10: Finding sample mass
16:26:10:
16:26:16: [1] 413.9781 amu, mean: 413.9781 SD: 0.36 mmu or: 0.88 ppm
16:26:19: [2] 413.9776 amu, mean: 413.9778 SD: 0.30 mmu or: 0.74 ppm
16:26:22: [3] 413.9776 amu, mean: 413.9777 SD: 0.34 mmu or: 0.83 ppm
16:26:25: [4] 413.9773 amu, mean: 413.9776 SD: 0.34 mmu or: 0.83 ppm
16:26:29: [5] 413.9772 amu, mean: 413.9775 SD: 0.43 mmu or: 1.04 ppm
16:26:32: [6] 413.9768 amu, mean: 413.9774 SD: 0.42 mmu or: 1.02 ppm
16:26:35: [7] 413.9770 amu, mean: 413.9774 SD: 0.39 mmu or: 0.95 ppm
16:26:38: [8] 413.9773 amu, mean: 413.9774 SD: 0.37 mmu or: 0.89 ppm
16:26:41: [9] 413.9774 amu, mean: 413.9774 SD: 0.38 mmu or: 0.91 ppm
16:26:44: [10] 413.9778 amu, mean: 413.9774 SD: 0.38 mmu or: 0.92 ppm
16:26:47: [11] 413.9778 amu, mean: 413.9775
16:26:48:
16:26:48: Stop requested. Please wait for procedure to finish.
16:26:48:
16:26:51:
16:26:51: Peakmatching stopped

Signature



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
 Lims ID: IC L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2024 16:34:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-001
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	9958539		3.3746	106.6	106.6	0.007294	0.007294	107	
Naphthalene	11:33	1255702		1.2893	9.780	9.780	0.0236	0.0236	978	
D 13C6-2-Methylnaphthalene	13:51	4590652		1.6031	103.4	103.4	0.002417	0.002417	103	
2-Methylnaphthalene	13:52	512954		1.2786	8.739	8.739	0.0243	0.0243	874	
D 13C6-Acenaphthylene	16:44	4441490		1.6520	97.1	97.1	0.000761	0.000761	97.12	
Acenaphthylene	16:44	70974		2.3661	1.132	1.132	0.0240	0.0240	113	
* Acenaphthene-d10	17:19	2768301		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2649873		0.9792	97.8	97.8	0.002139	0.002139	97.76	
Acenaphthene	17:27	149559		1.2697	4.445	4.445	0.0292	0.0292	445	
D 13C6-Fluorene	19:44	2300375		0.8898	93.4	93.4	0.001766	0.001766	93.38	
Fluorene	19:44	86461		1.2532	2.999	2.999	0.0396	0.0396	300	
D 13C6-Phenanthrene	25:08	3481612		0.5724	91.6	91.6	0.000997	0.000997	91.64	
Phenanthrene	25:08	126498		1.1044	3.290	3.290	0.0485	0.0485	329	
\$ Anthracin-d10	25:20	2713232		0.4257	96.0	96.0	0.000957	0.000957	96.03	
D 13C6-Anthracene	25:27	2810000		0.4523	93.6	93.6	0.001262	0.001262	93.60	
Anthracene	25:27	49456		1.3586	1.295	1.295	0.0498	0.0498	130	
D 13C6-Fluoranthrene	33:52	7580251		1.1994	95.2	95.2	0.0302	0.0302	95.23	
Fluoranthrene	33:53	126601		1.1513	1.451	1.451	0.0173	0.0173	145	
* Pyrene-d10	35:26	6636938		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	8492459		1.3512	94.7	94.7	0.0178	0.0178	94.70	
Pyrene	35:35	136948		1.0652	1.514	1.514	0.0174	0.0174	151	
\$ 13C6-Benzo(c)fluorene	39:16	3611915		0.5136	106.0	106.0	0.005079	0.005079	106	
D 13C6-Benzo(a)anthracene	46:06	7605148		1.5189	98.9	98.9	0.0172	0.0172	98.93	
Benzo[a]anthracene	46:07	78927		0.9739	1.066	1.066	0.0161	0.0161	107	
D 13C6-Chrysene	46:22	7872763		1.6287	95.5	95.5	0.0160	0.0160	95.51	
Chrysene	46:23	121048		0.9815	1.567	1.567	0.0160	0.0160	157	
D 13C6-Benzo(b)fluoranthene	54:38	7044571		1.4621	95.2	95.2	0.001282	0.001282	95.21	
Benzo[b]fluoranthene	54:38	156279		1.1249	1.972	1.972	0.0112	0.0112	197	
\$ 13C12-Benzo(j)fluoranthene	54:40	6545559		1.3558	95.4	95.4	0.0165	0.0165	95.39	
D 13C6-Benzo(k)fluoranthene	54:46	8157925		1.7507	92.1	92.1	0.001071	0.001071	92.08	
Benzo[k]fluoranthene	54:46	101746		1.1271	1.107	1.107	0.0102	0.0102	111	
* Benzo(e)pyrene-d12	55:29	5060836		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	7869617		1.6368	95.0	95.0	0.0117	0.0117	95.00	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	98939		1.0013	1.256	1.256	0.009239	0.009239	126	
Benzo[a]pyrene	55:42	90261		1.1130	1.115	1.115	0.009497	0.009497	112	
D 13C4-Benzo(a)pyrene	55:42	7271246		1.5508	92.6	92.6	0.0124	0.0124	92.65	
D Perylene-d12	55:52	5662636		1.1917	93.9	93.9	0.0173	0.0173	93.89	
Perylene	55:56	105365		1.4307	1.301	1.301	0.008225	0.008225	130	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4910654		1.0218	95.0	95.0	0.0109	0.0109	94.96	
Indeno[1,2,3-cd]pyrene	58:01	64723		1.1249	1.172	1.172	0.008757	0.008757	117	
D 13C6-Dibenz(a,h)anthracene	58:06	5080699		1.0553	95.1	95.1	0.005829	0.005829	95.13	M
Dibenz(a,h)anthracene	58:06	68899		1.1314	1.199	1.199	0.007519	0.007519	120	
D 13C12-Benzo(ghi)perylene	58:29	5925593		1.2749	91.8	91.8	0.005514	0.005514	91.84	M
Benzo[g,h,i]perylene	58:30	89871		1.2838	1.181	1.181	0.007007	0.007007	118	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS1_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-001
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
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 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
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 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	9958539	3339076	94	235	35522		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	1255702	387907	406	1015	955		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	4590652	2078419	15	37	138561		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	512954	235496	259	647	909		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	4441490	1551969	5	12	310394		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	70974	22149	214	535	104		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		2768301	954801	2	5	477401		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2649873	942829	8	20	117854		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	149559	50602	140	350	361		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	2300375	659741	6	15	109957		
Fluorene											
166.0783	19:44	19:45	0	1.001	86461	24882	131	327	190		
13C6-Phenanthrene											
184.0984	25:08	25:08	-1	0.709	3481612	802292	3	7	267431		
Phenanthrene											
178.0783	25:08	25:08	-1	1.000	126498	30521	172	430	177		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2713232	626252	2	5	313126		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	2810000	635348	3	7	211783		
Anthracene											
178.0783	25:27	25:28	-1	1.000	49456	8992	172	430	52		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-1	0.956	7580251	1465845	178	445	8235		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	126601	24370	117	292	208		
Pyrene-d10											
212.1404	35:26	35:27	-1		6636938	1226668	11	27	111515		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	8492459	1575711	118	295	13353		
Pyrene											
202.0783	35:35	35:35	-1	1.000	136948	24652	117	292	211		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-1	0.708	3611915	673373	13	32	51798		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.301	7605148	1311407	178	445	7367		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	78927	13628	82	205	166		
13C6-Chrysene											
234.1140	46:22	46:24	-1	1.309	7872763	1307149	178	445	7344		
Chrysene											
228.0939	46:23	46:25	-1	1.000	121048	21156	82	205	258		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-1	0.985	7044571	1868122	13	32	143702		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-1	1.000	156279	41853	94	235	445		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-1	0.985	6545559	1666162	153	382	10890		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8157925	2035926	13	32	156610		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	101746	26976	94	235	287		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5060836	1707083	141	352	12107		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-1	1.002	7869617	2540474	131	327	19393		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	98939	32907	94	235	350		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	90261	27237	94	235	290		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:44	-1	1.004	7271246	2223191	131	327	16971		
Perylene-d12											
264.1692	55:52	55:54	-1	1.007	5662636	1997049	141	352	14163		
Perylene											
252.0939	55:56	55:58	-1	1.001	105365	30703	94	235	327		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4910654	1542898	76	190	20301		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	64723	19980	61	152	328		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5080699	1316523	42	105	31346		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	68899	18096	45	112	402		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	5925593	1689760	48	120	35203		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	89871	23753	61	152	389		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS1_00002

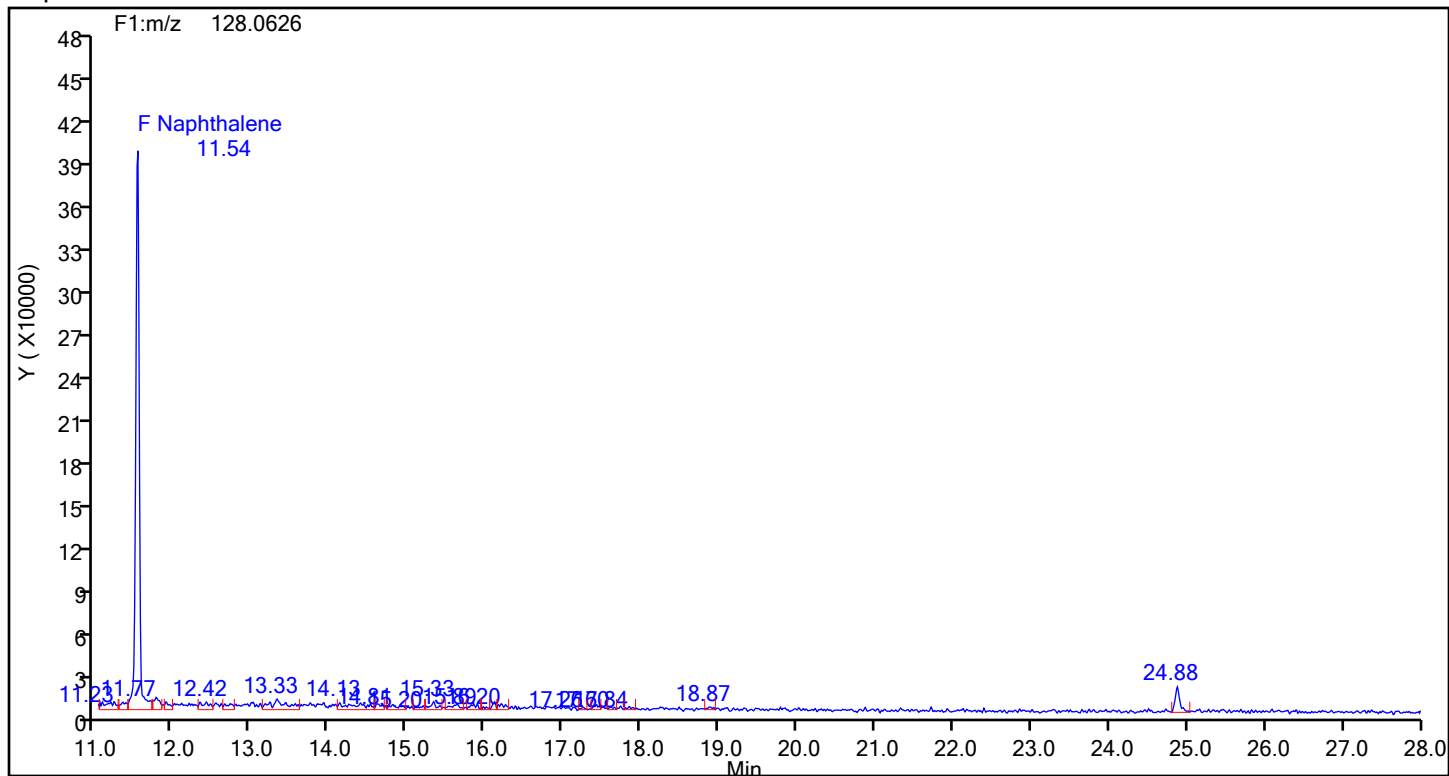
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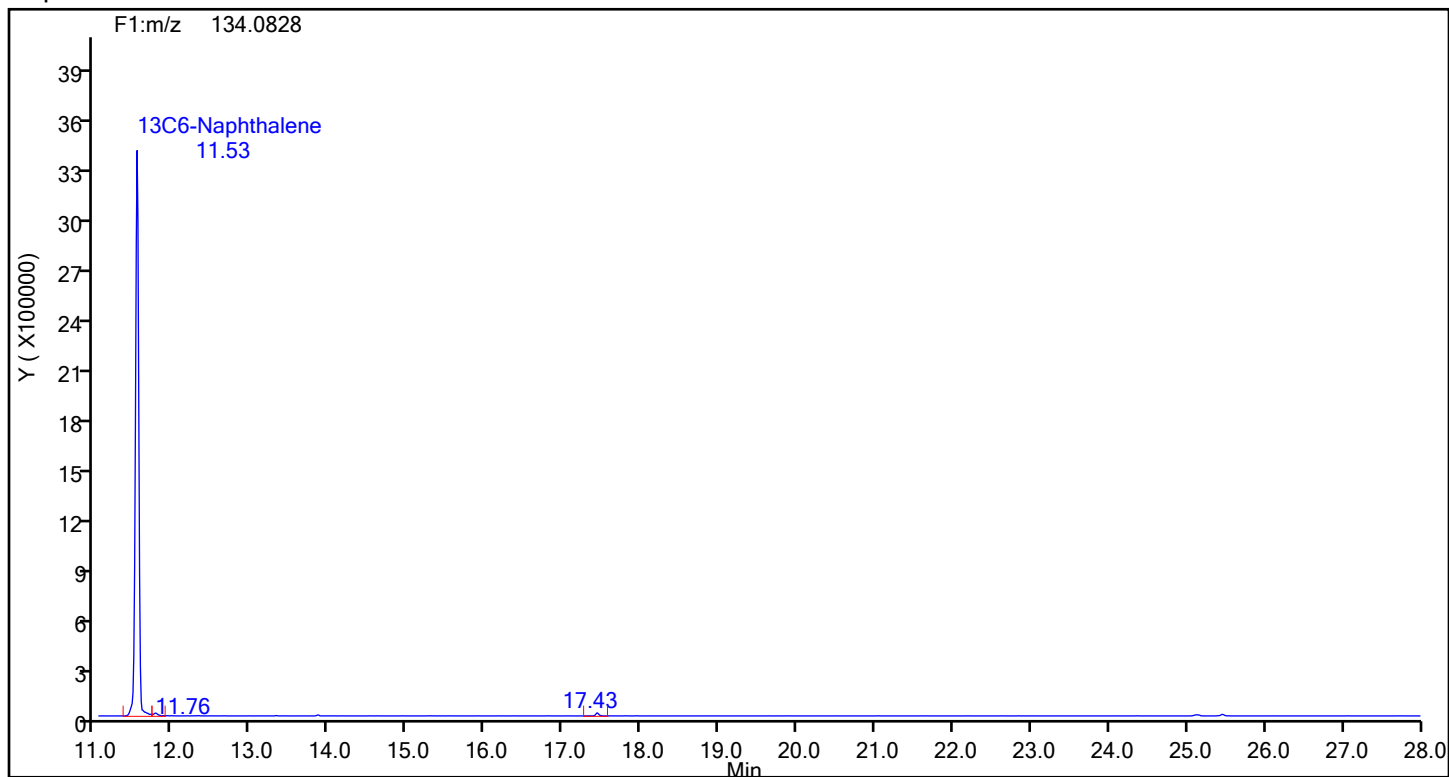
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



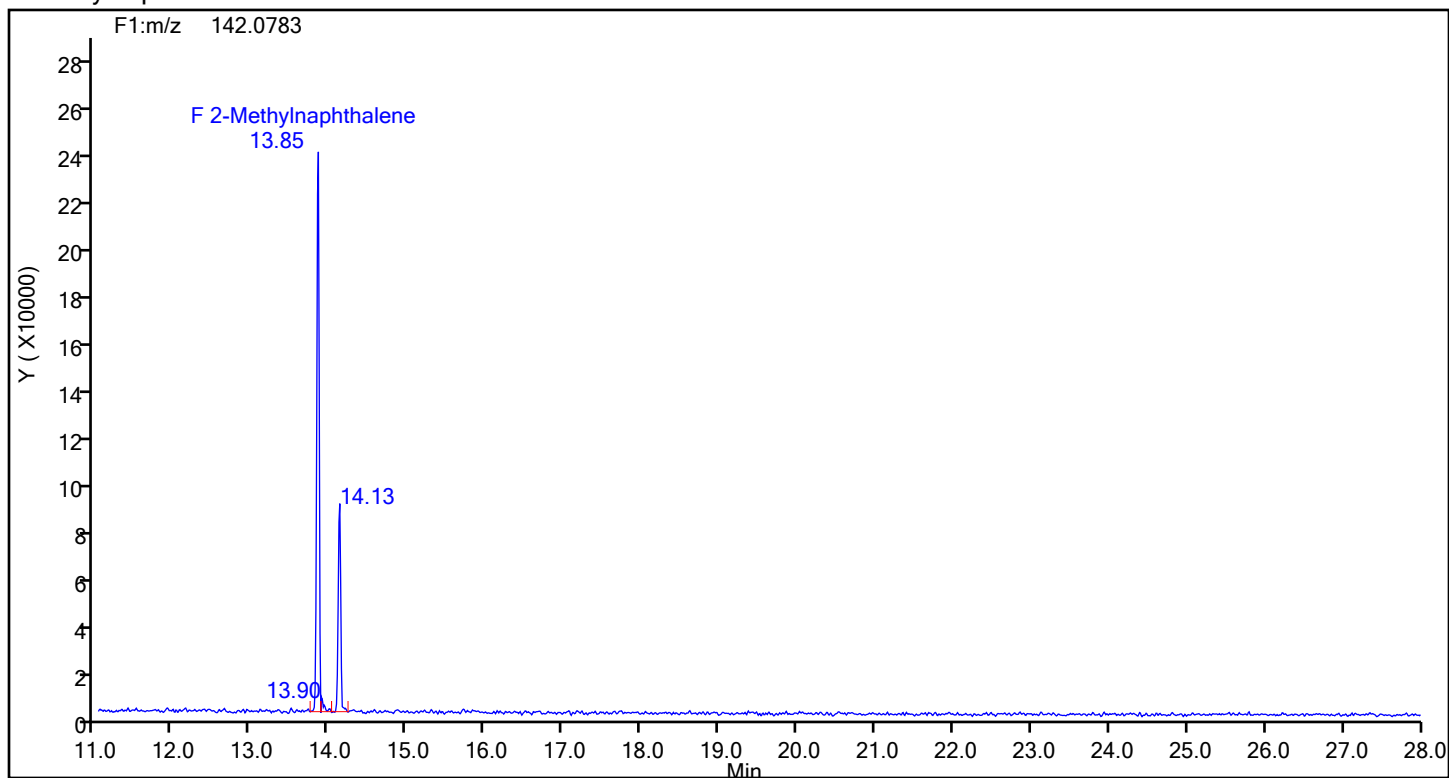
Naphthalene Standards



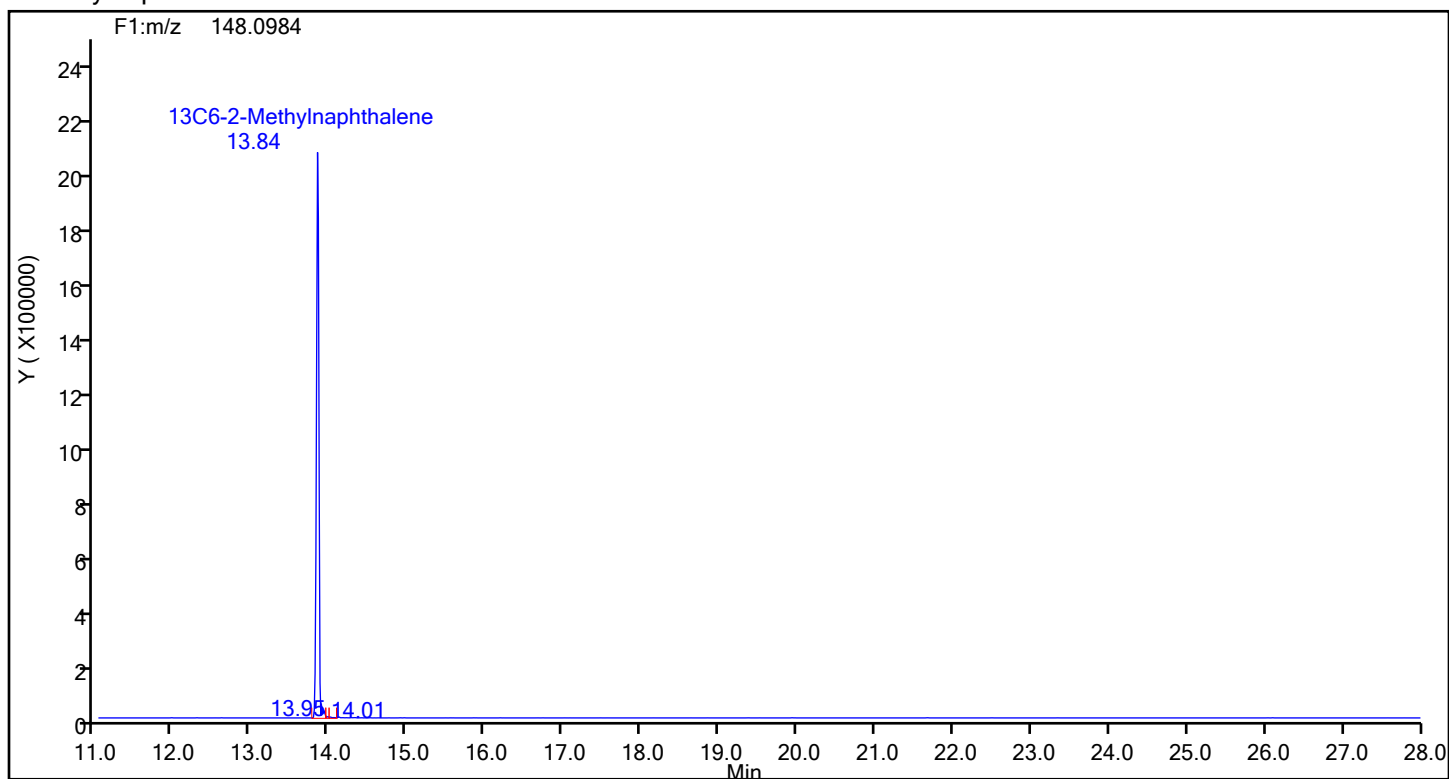
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



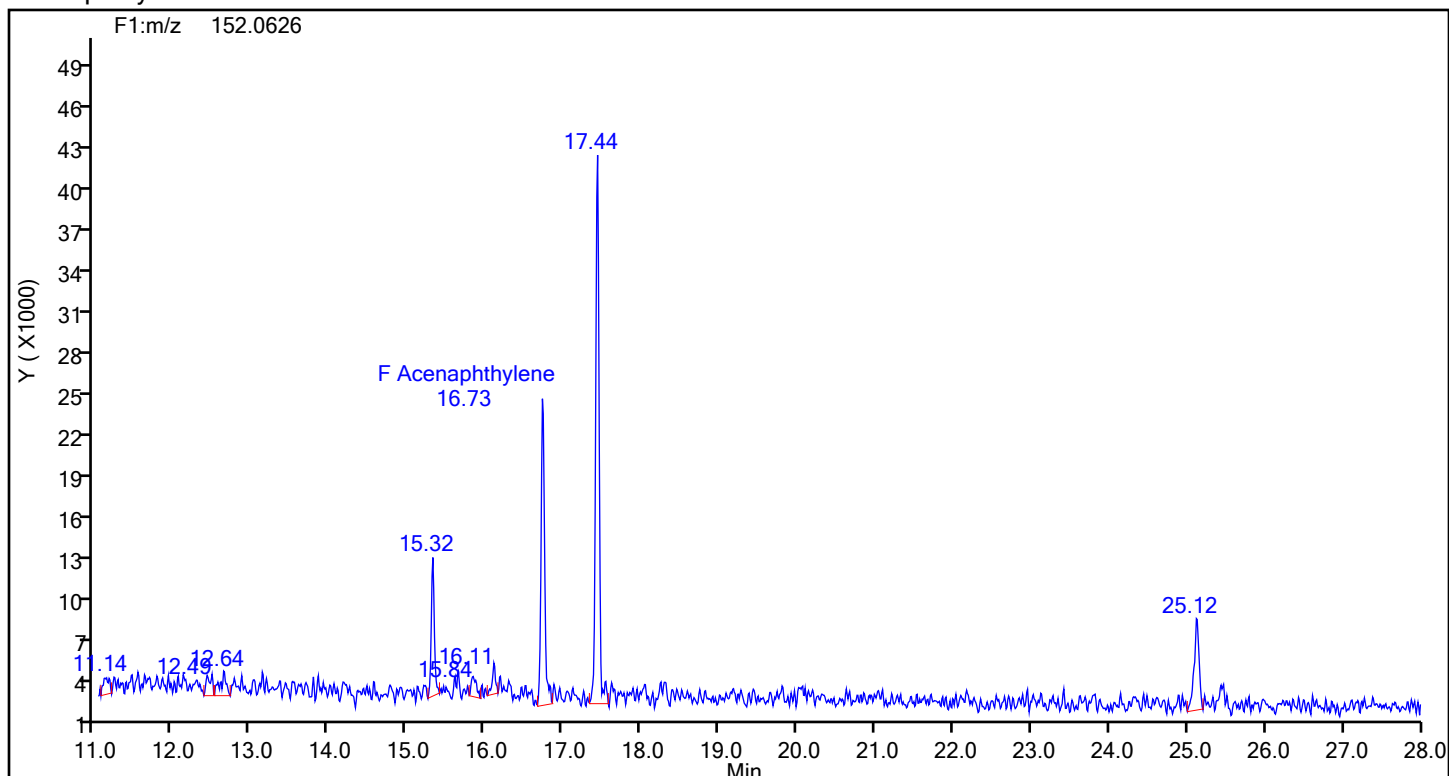
2-Methylnaphthalene Standards



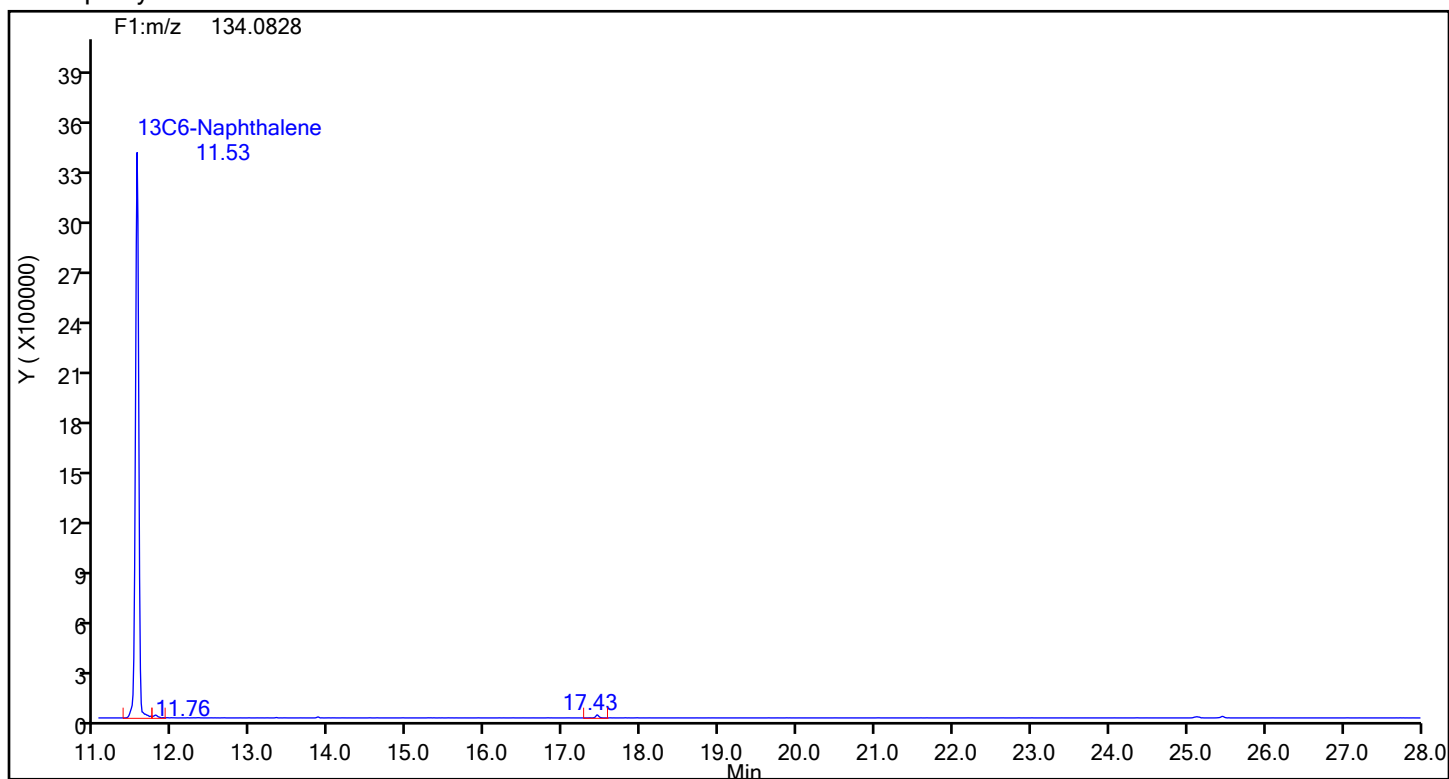
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

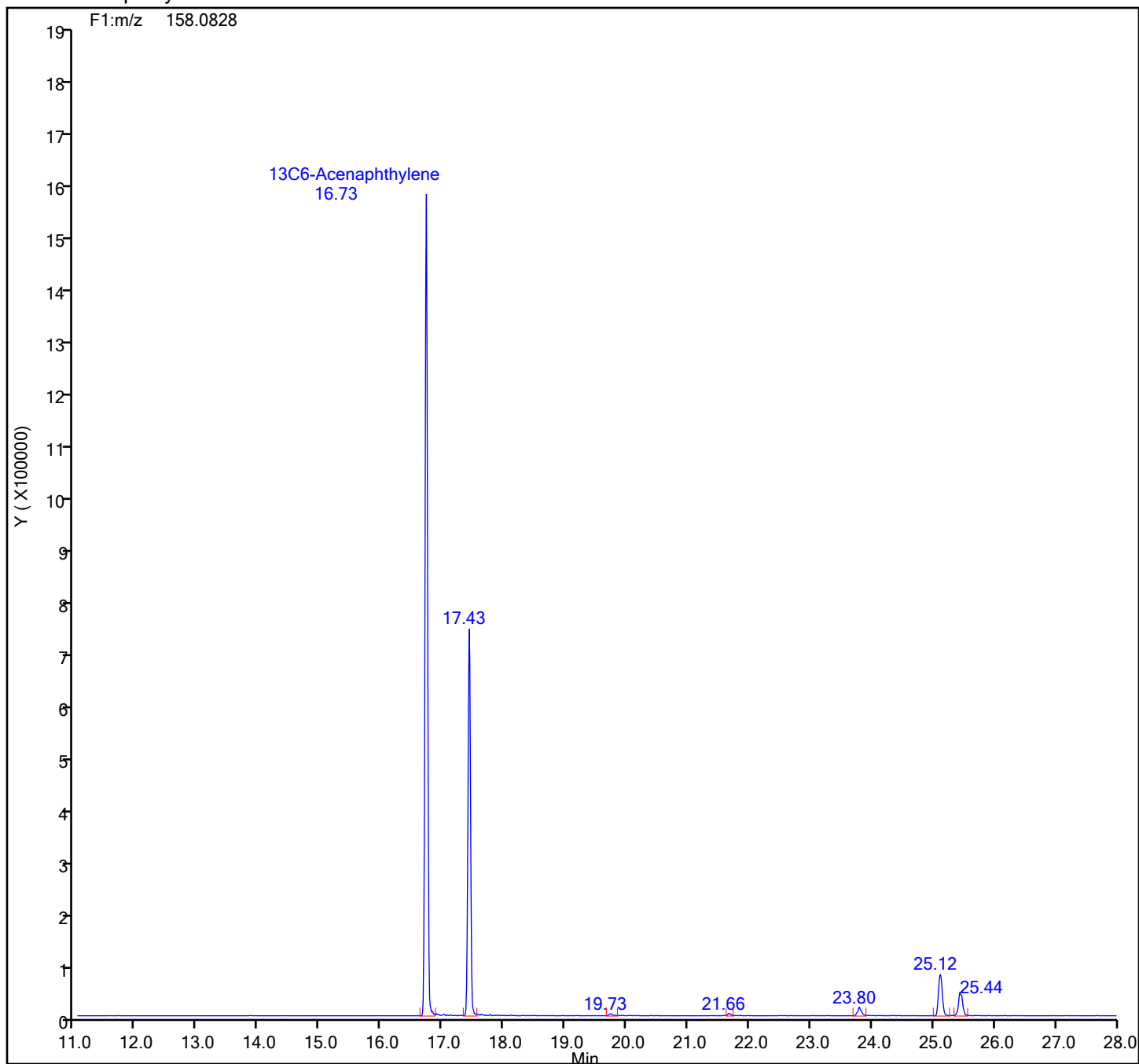


Acenaphthylene Standards



Eurofins Knoxville

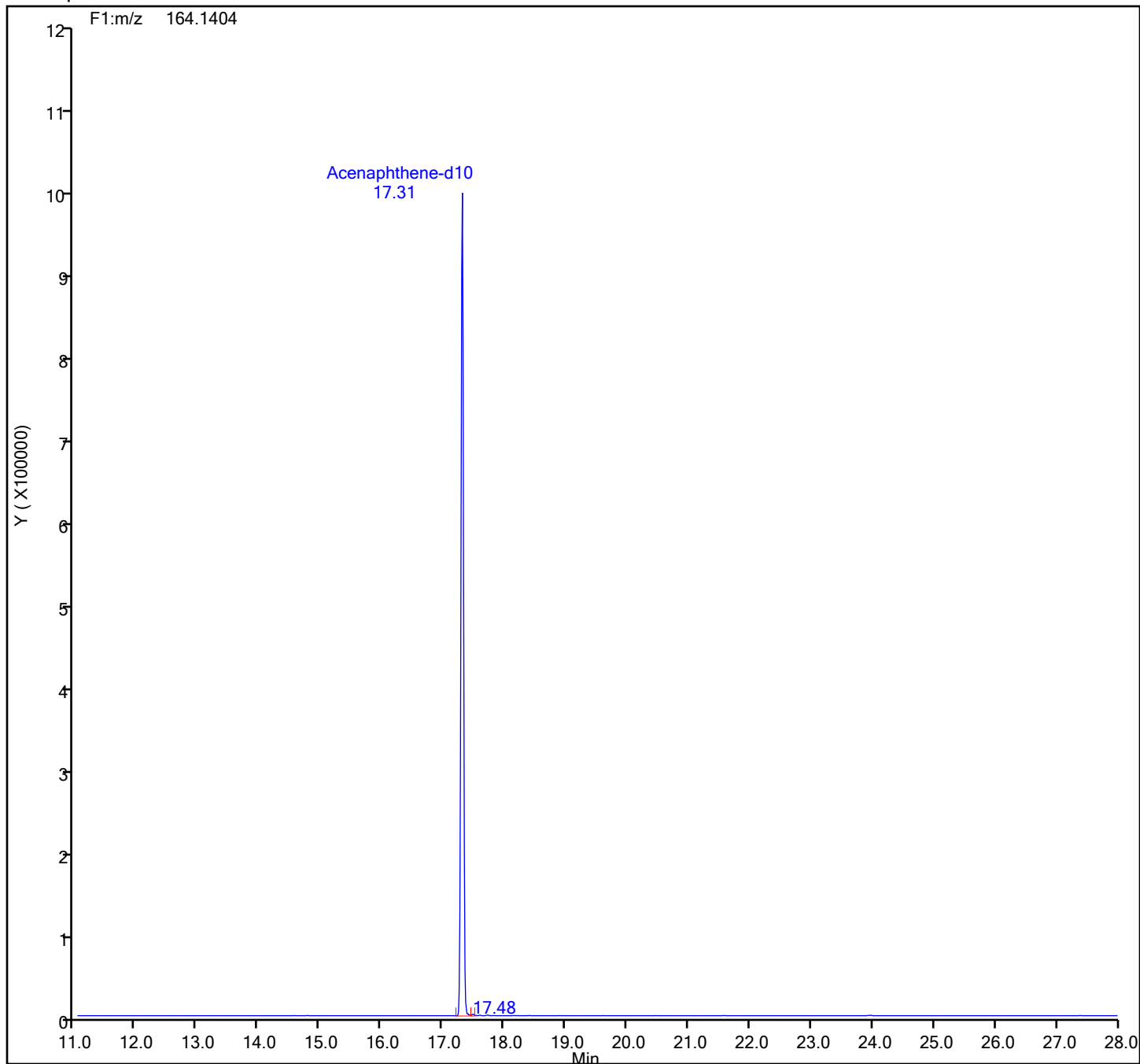
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13C6-Acenaphthylene Standards



Eurofins Knoxville

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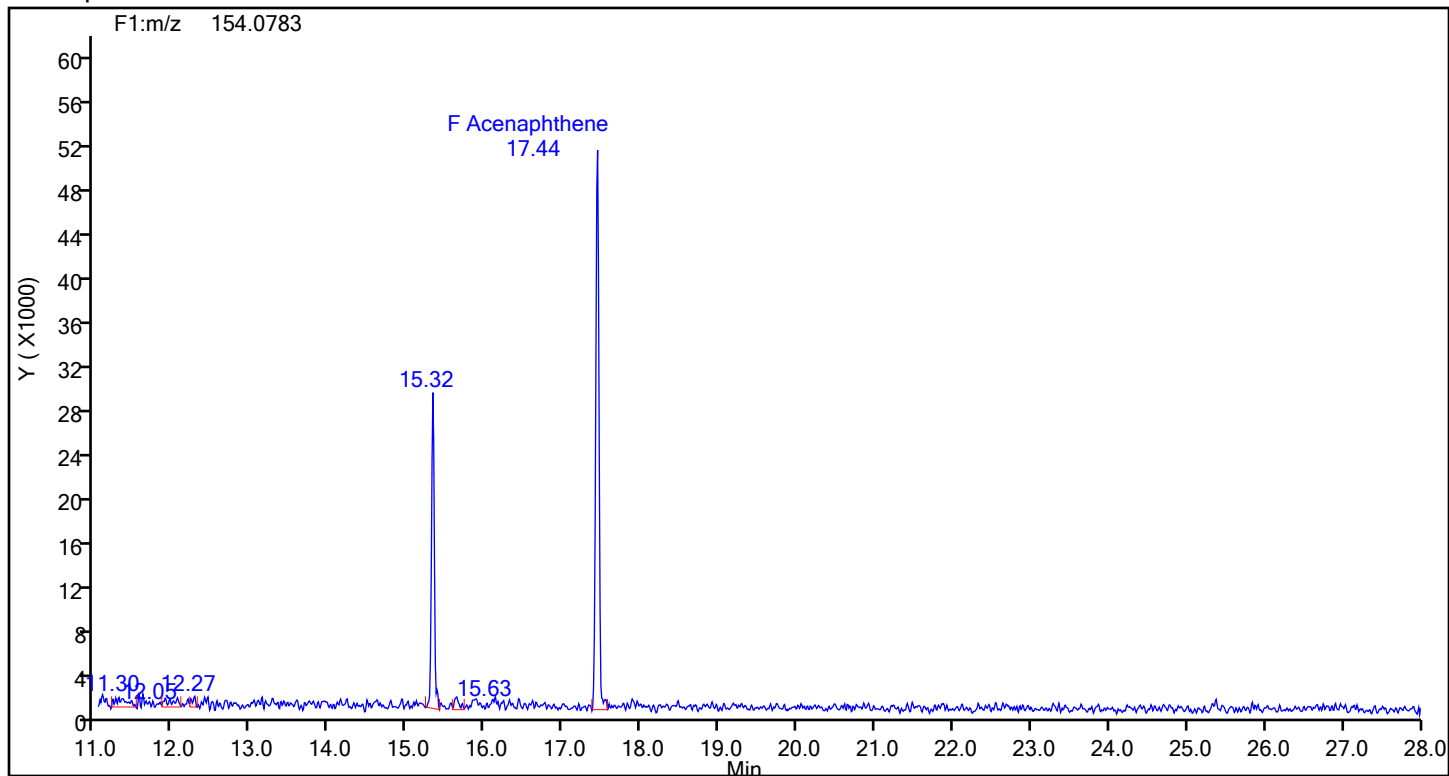
Acenaphthene-d10 Standards



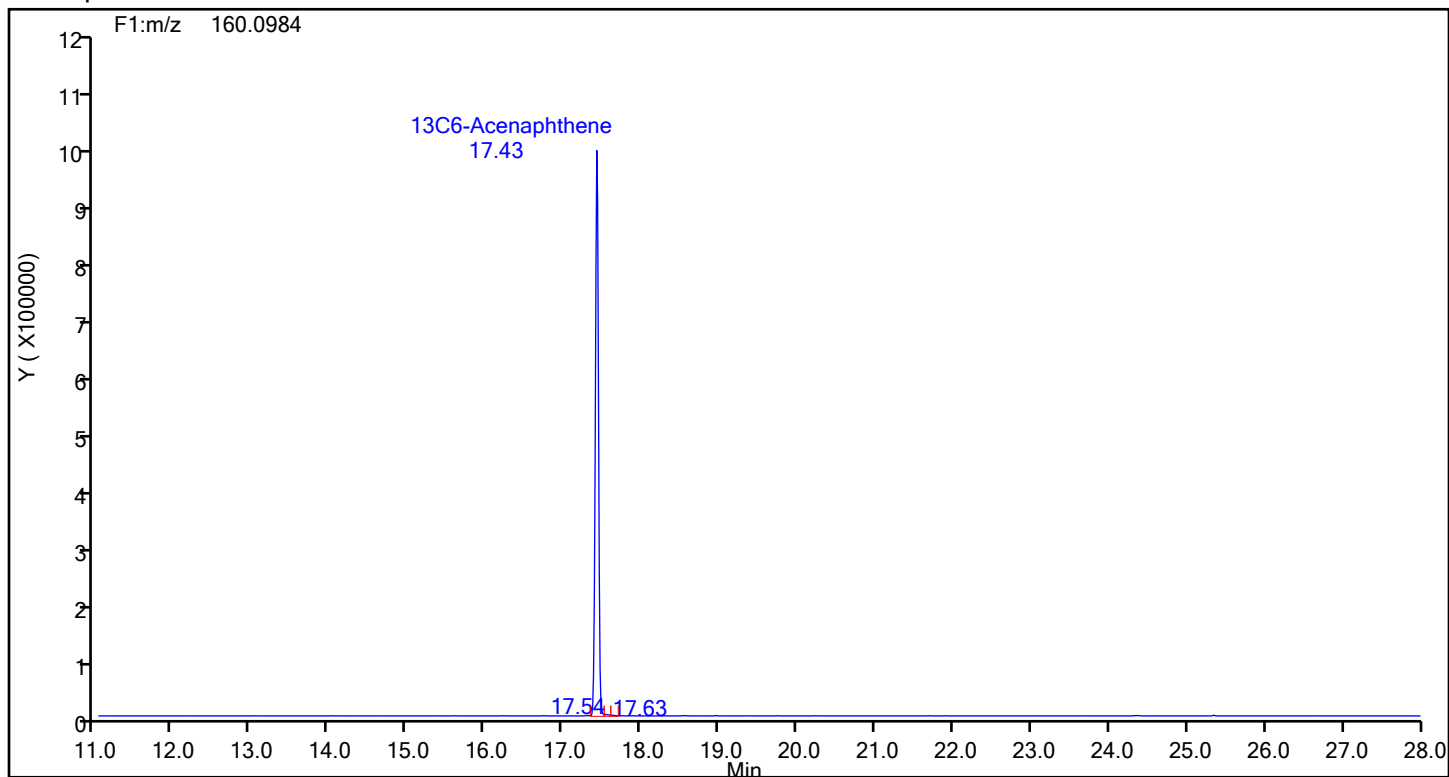
Eurofins Knoxville

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Acenaphthene



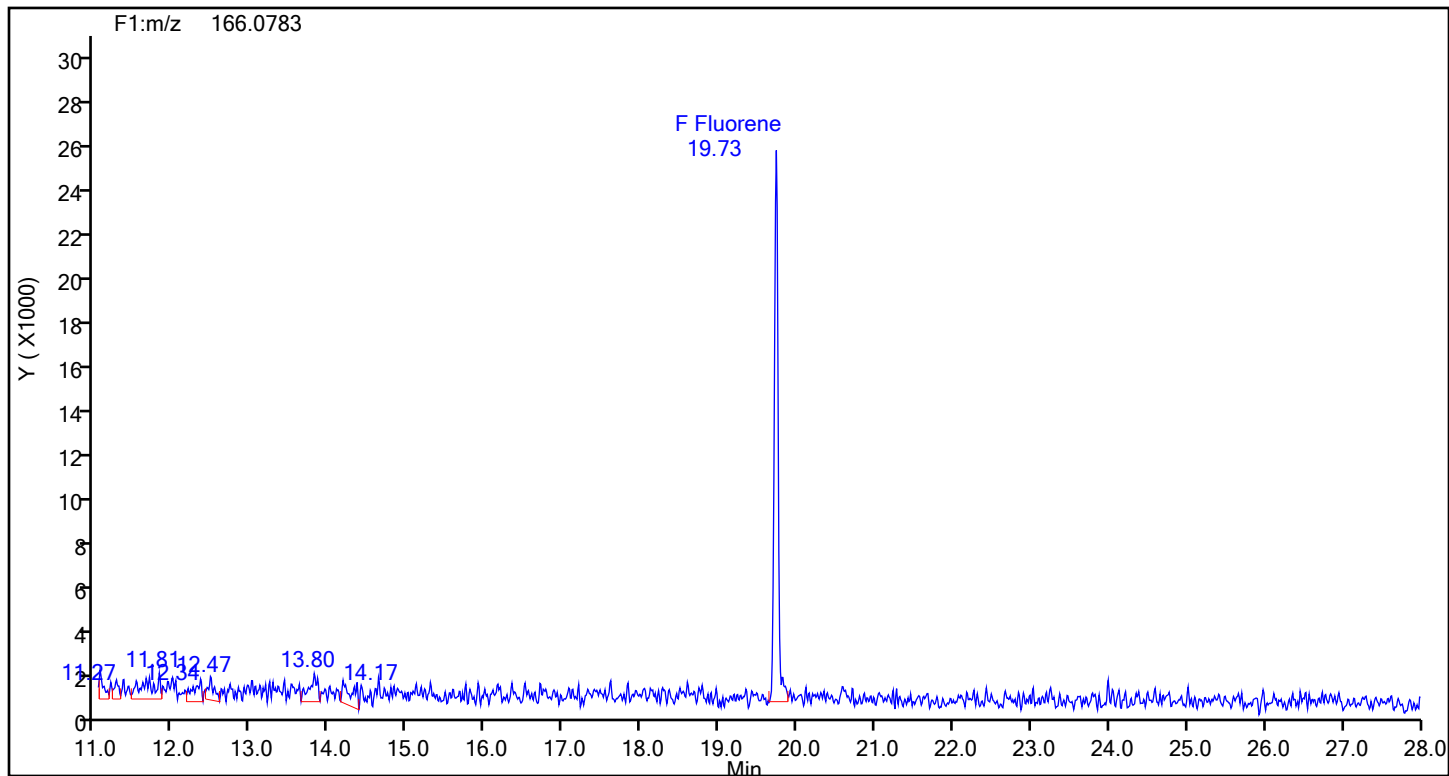
Acenaphthene Standards



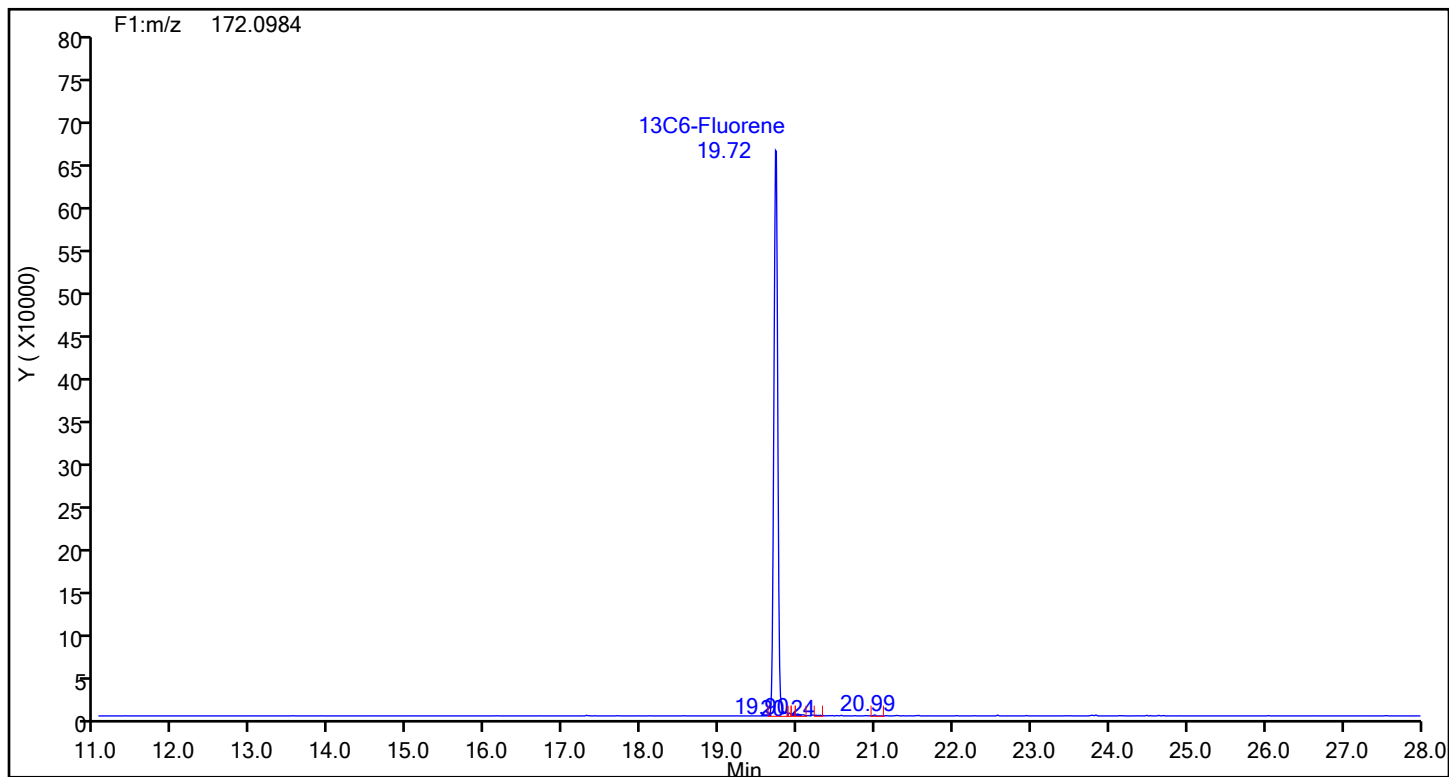
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

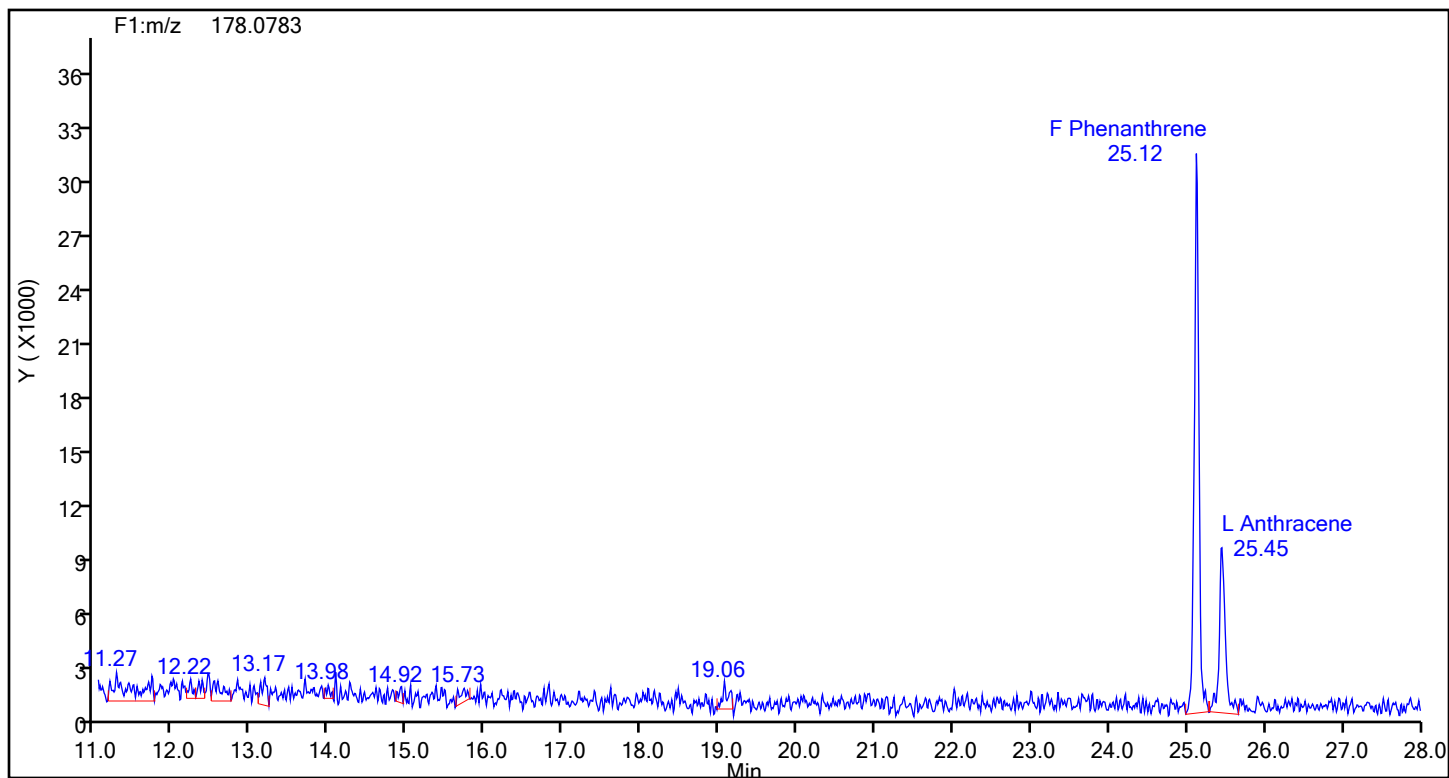


Fluorene Standards

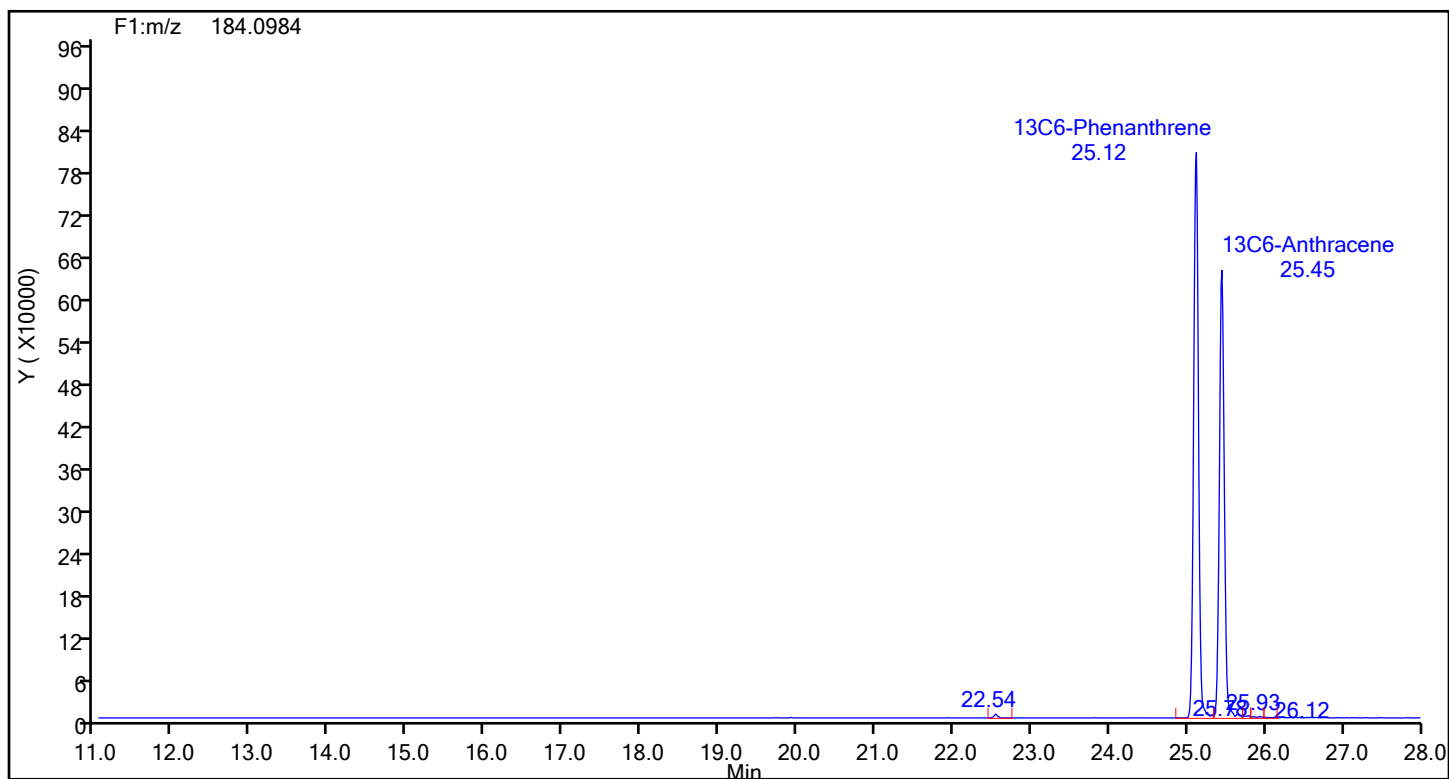


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Client ID:
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Phenanthrene

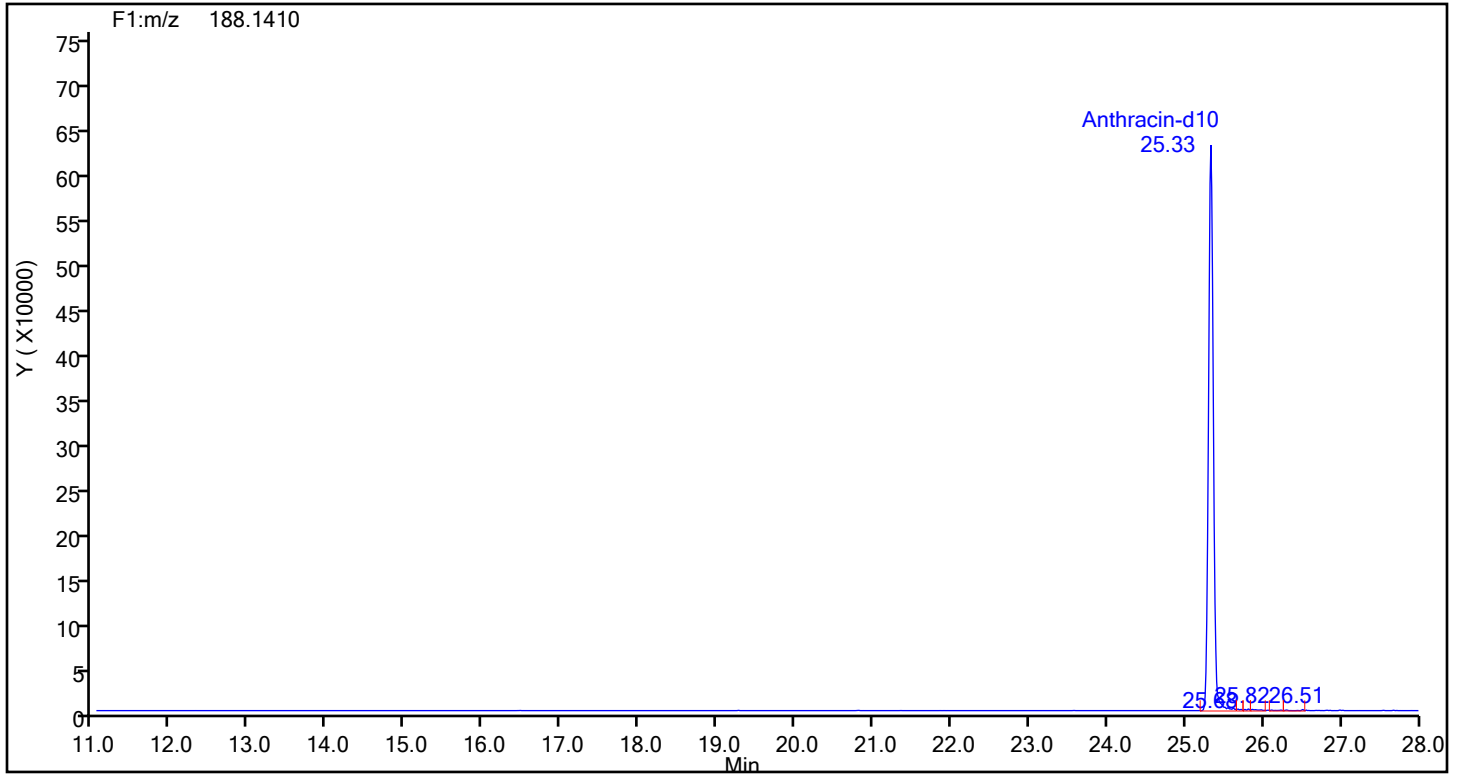


Phenanthrene Standards

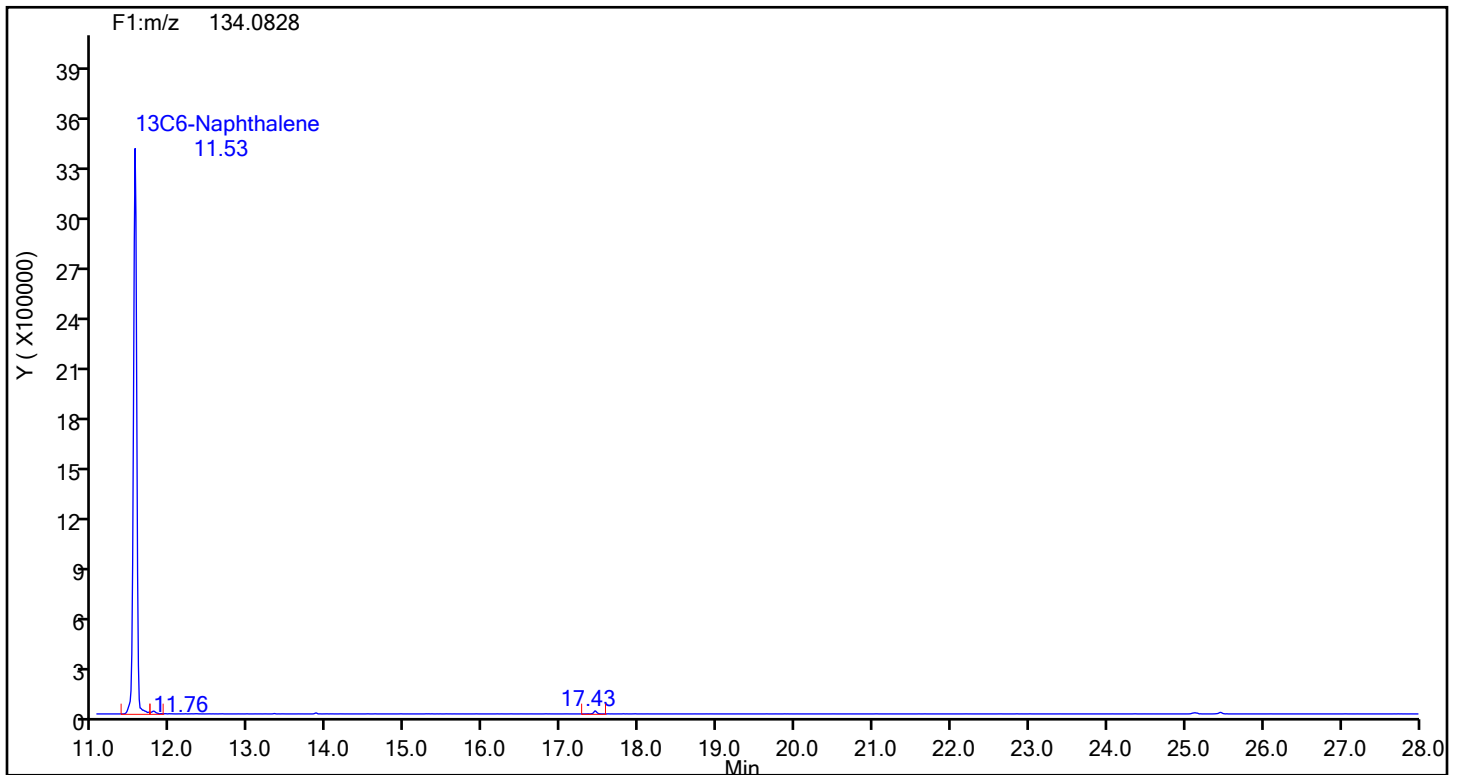


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Anthracin-d10

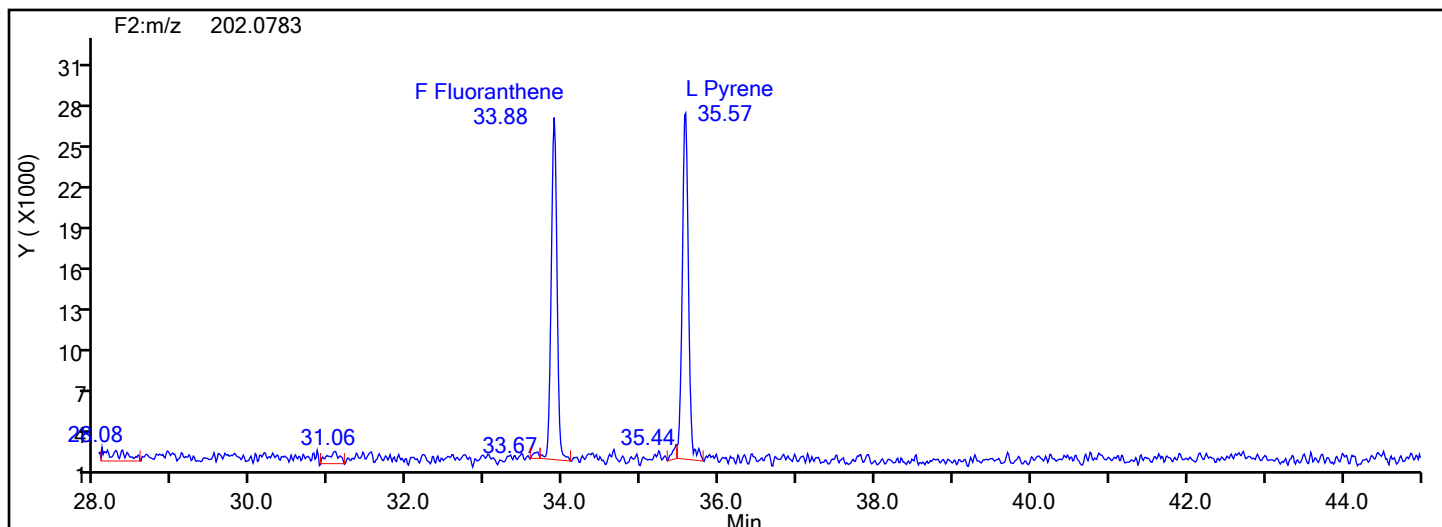


Anthracin-d10 Standards

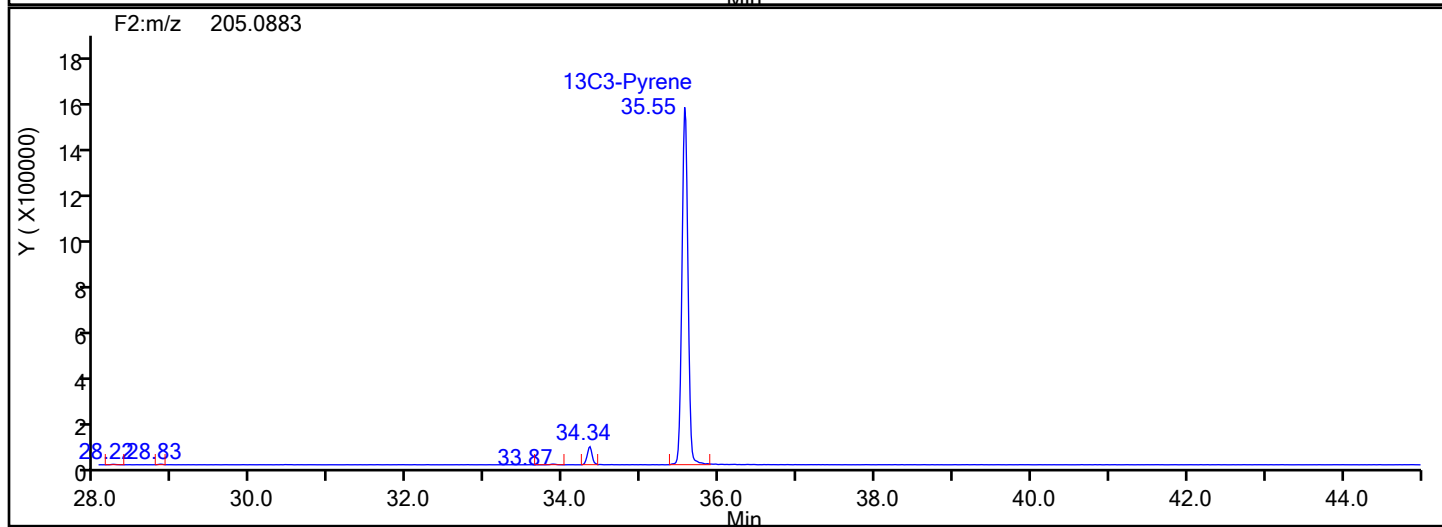
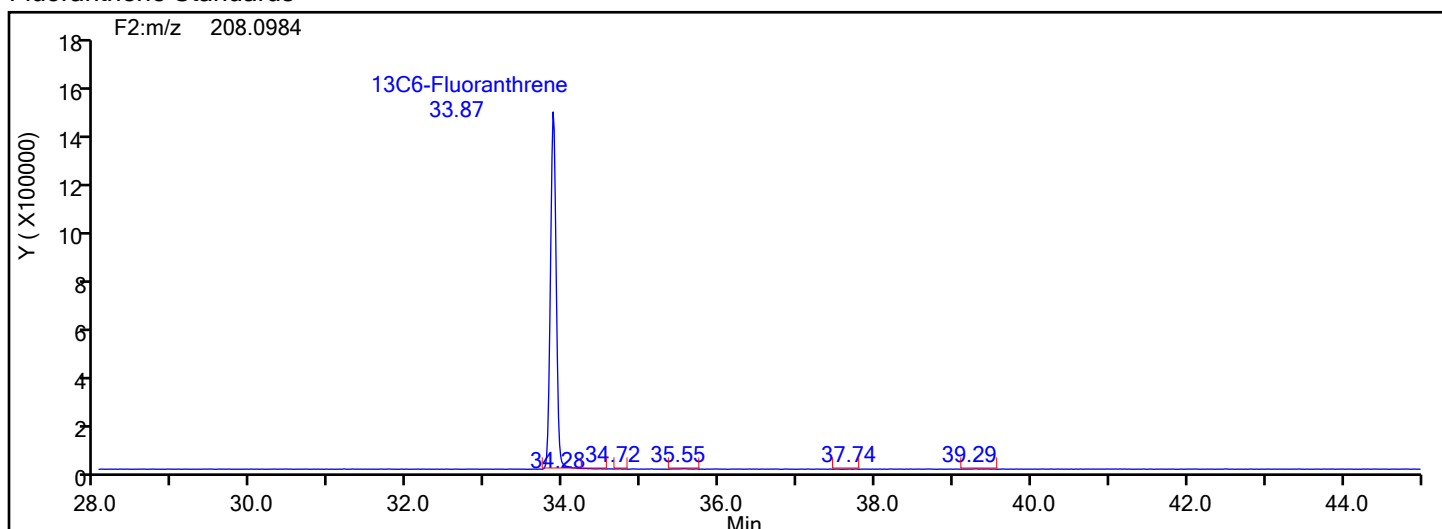


Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



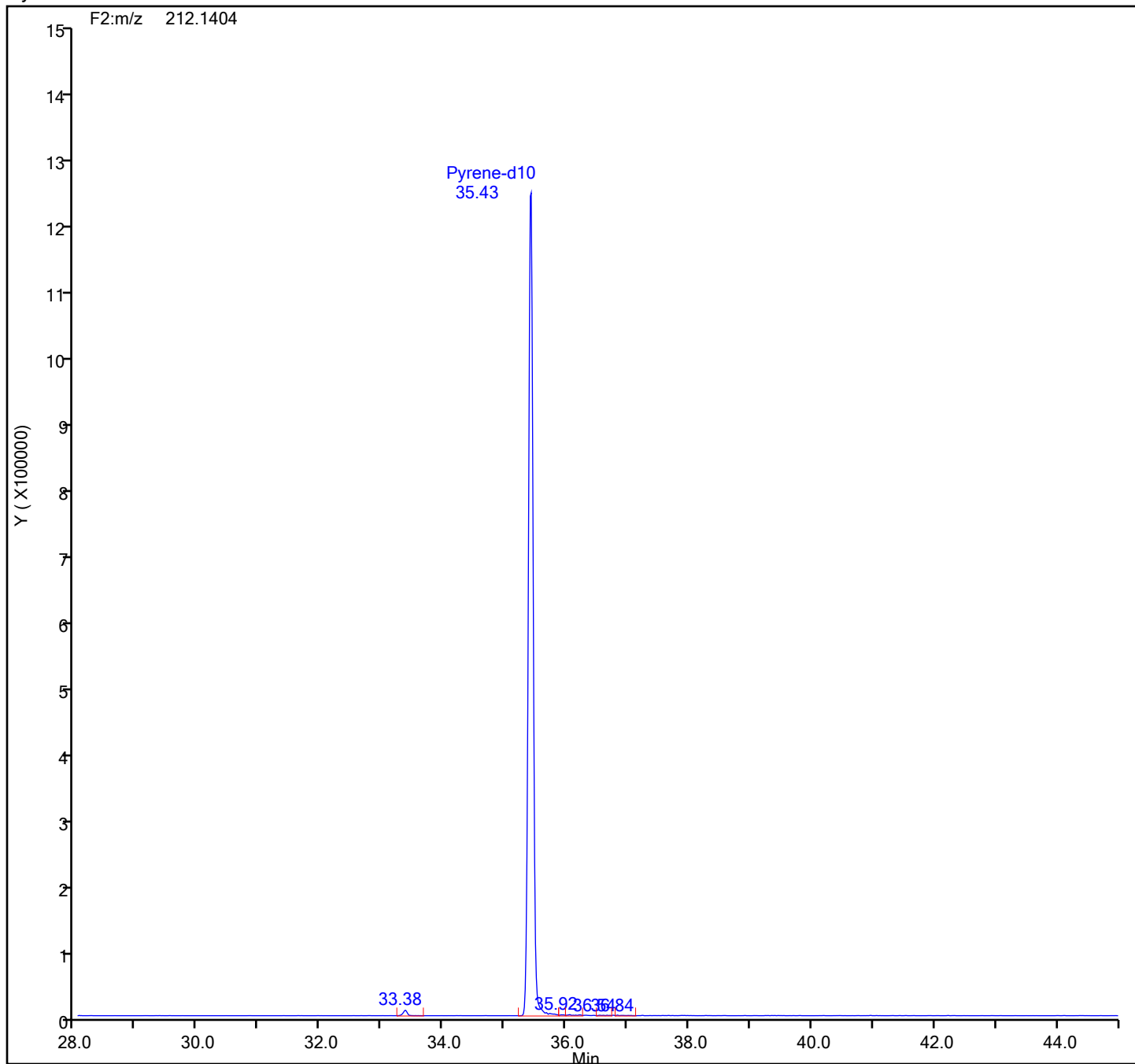
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

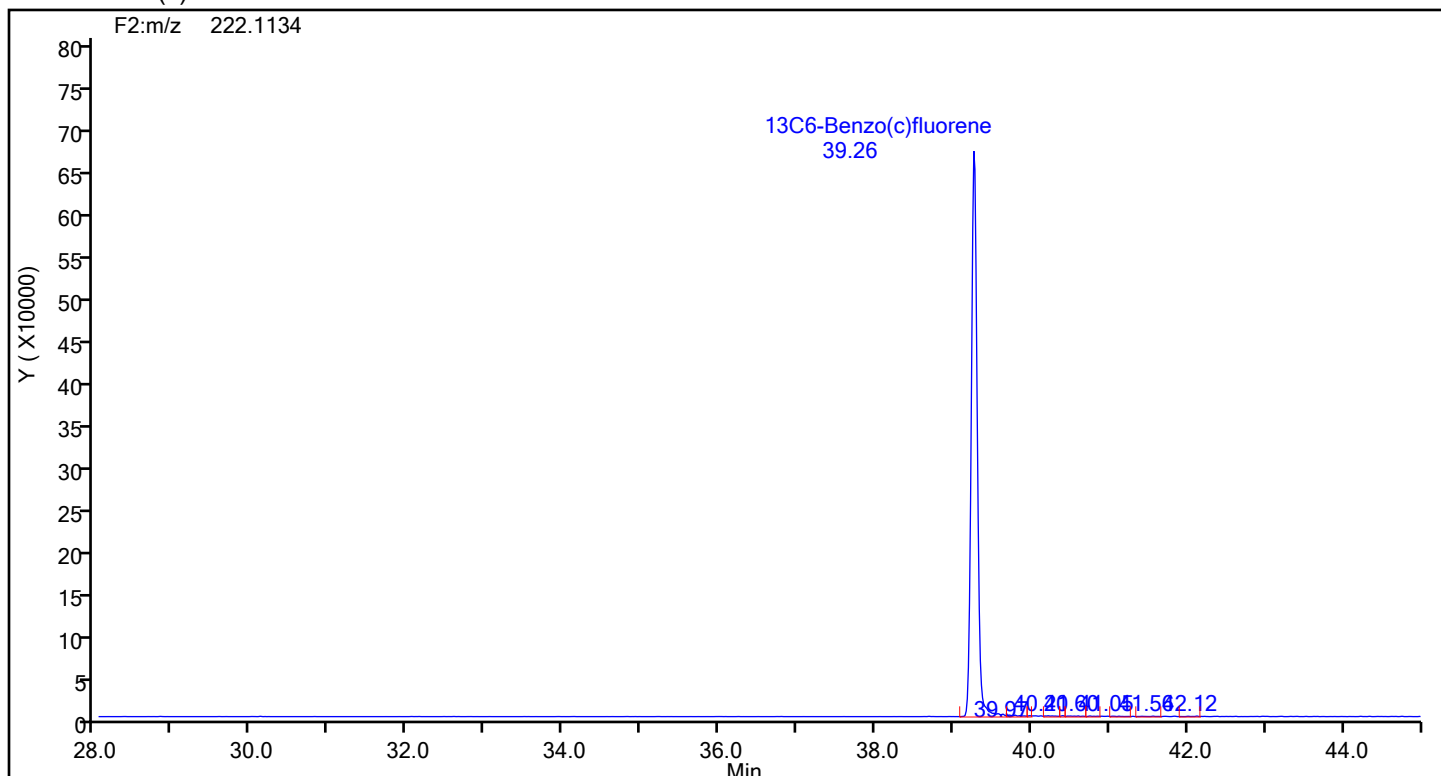
Pyrene-d10 Standards



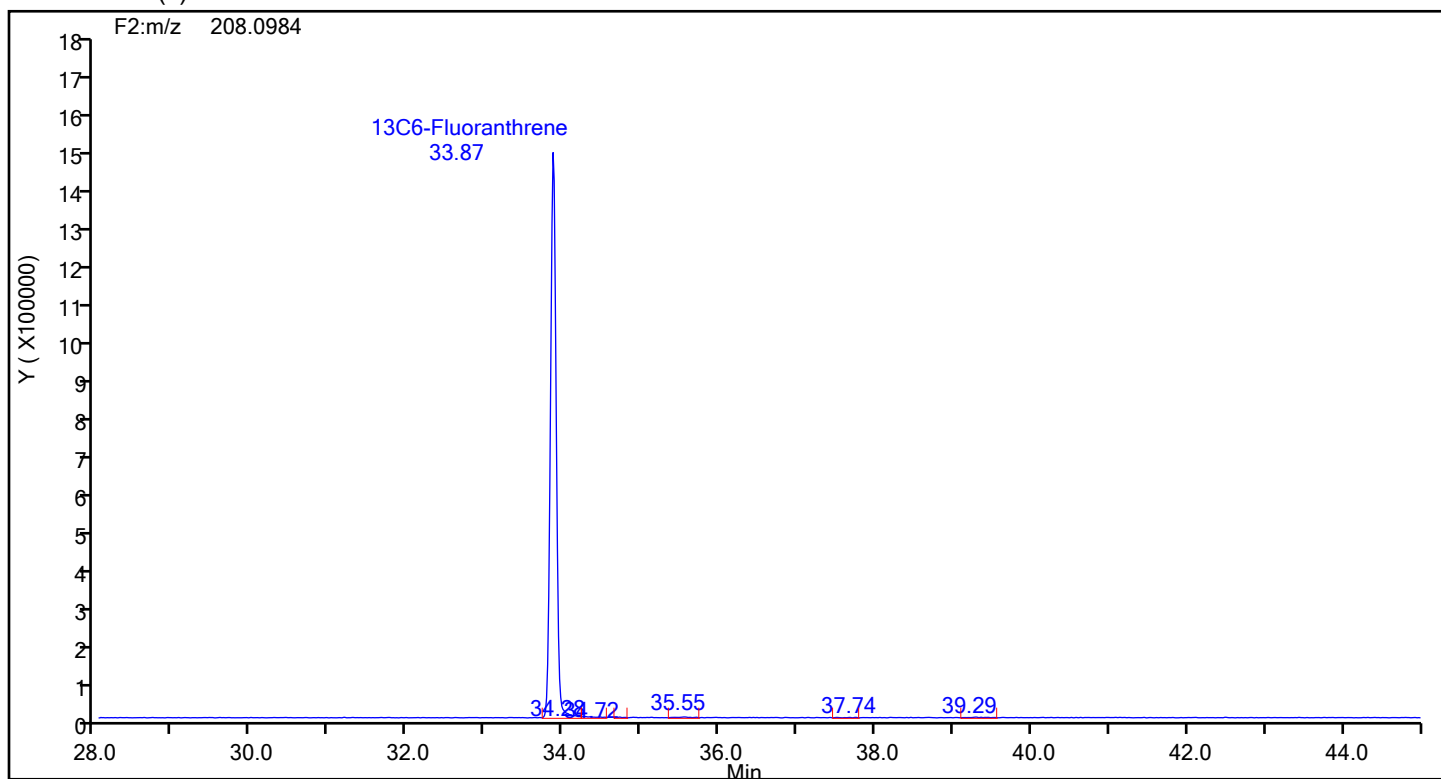
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



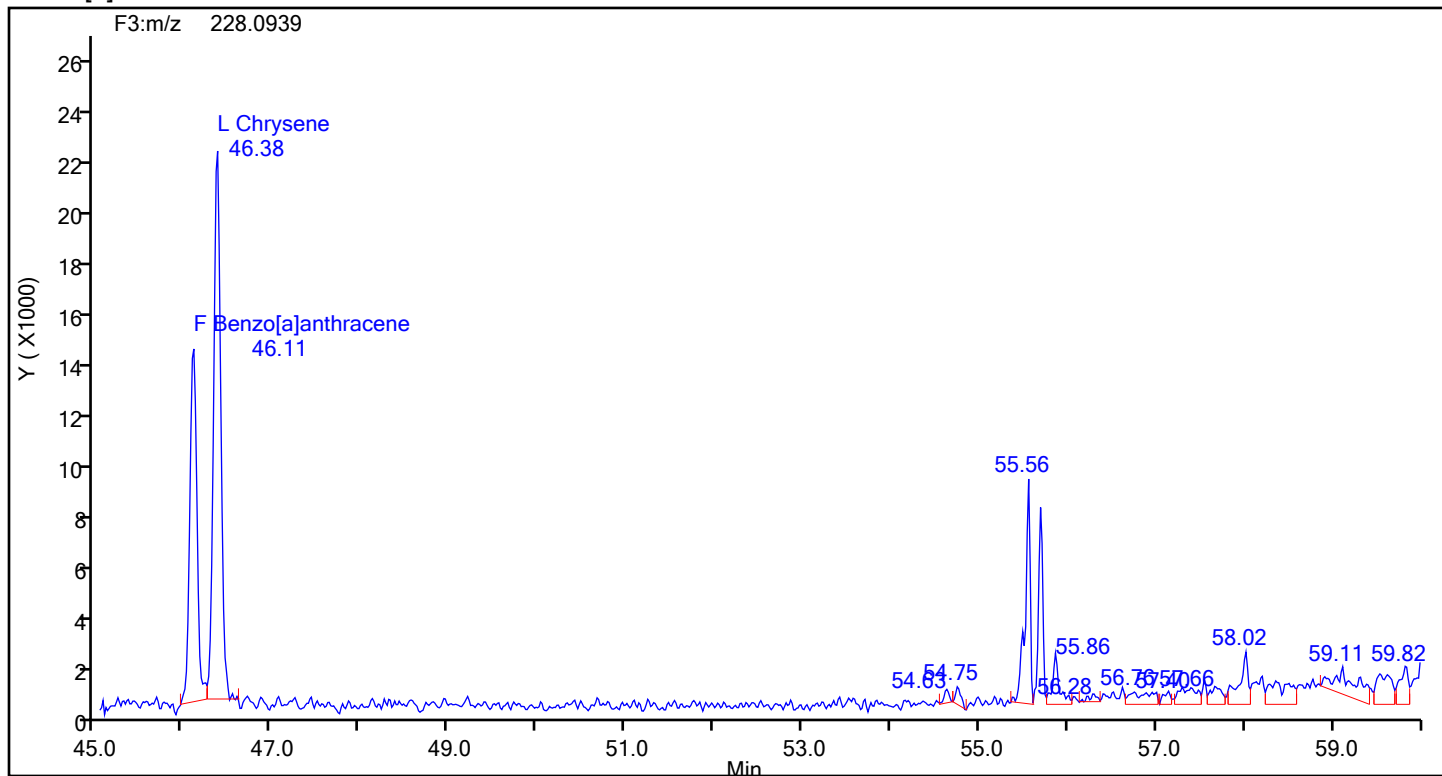
13C6-Benzo(c)fluorene Standards



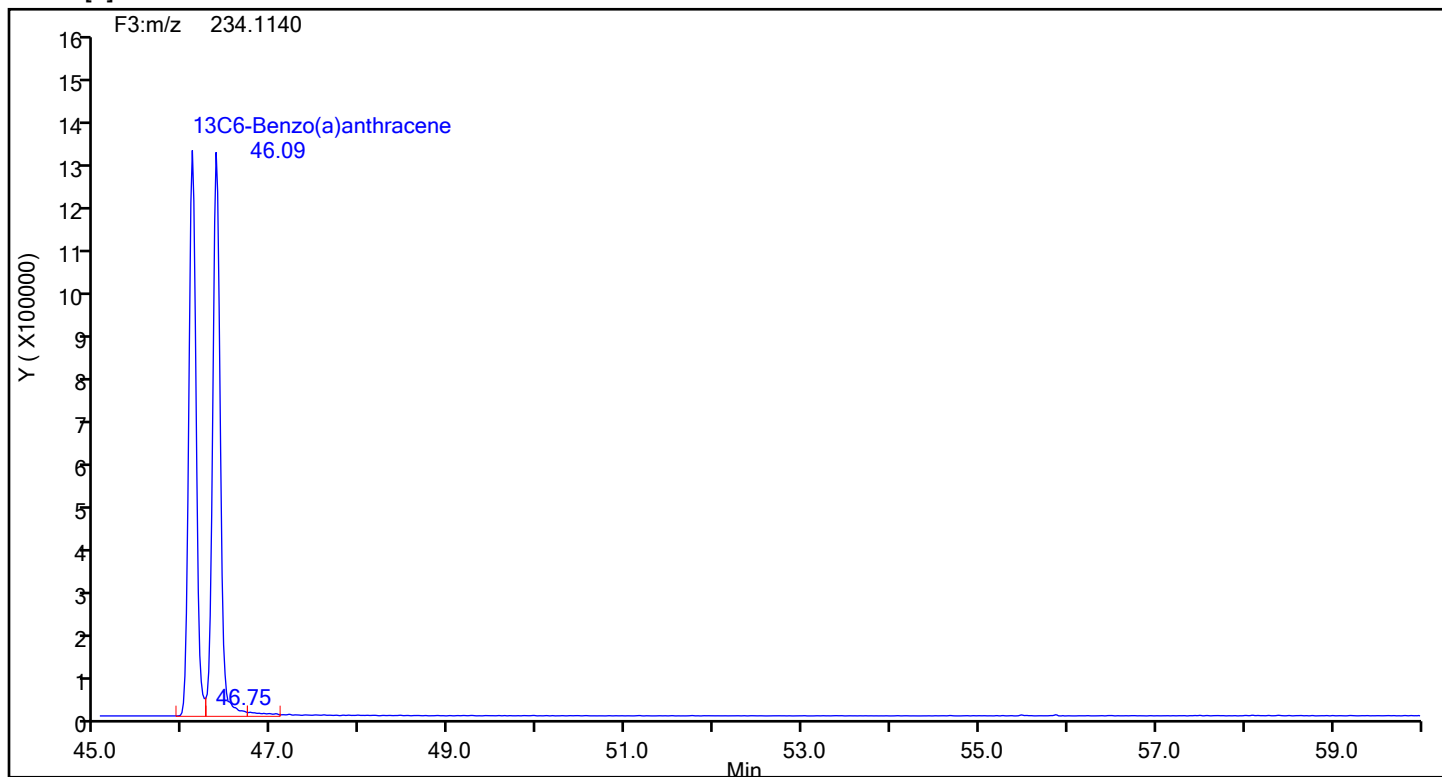
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



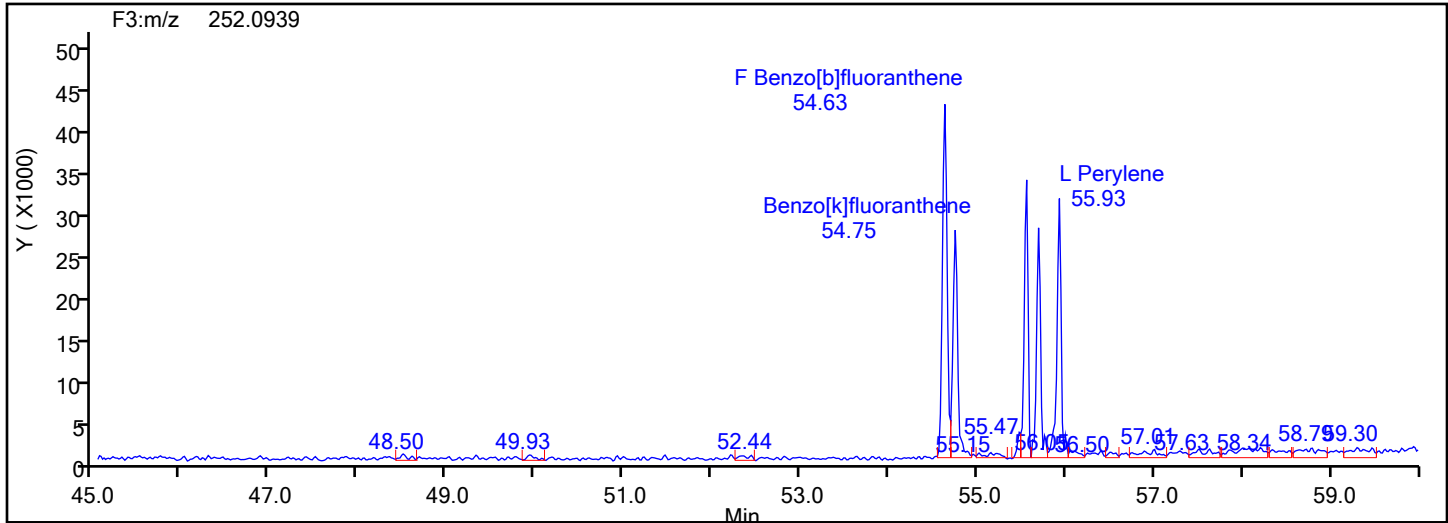
Benzo[a]anthracene Standards



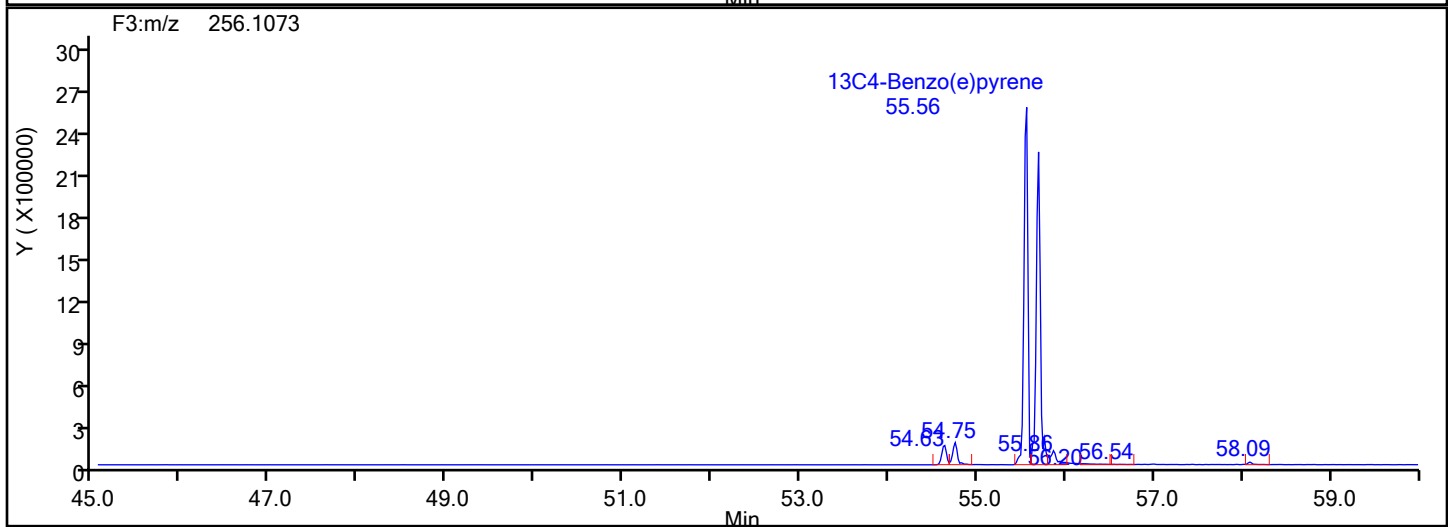
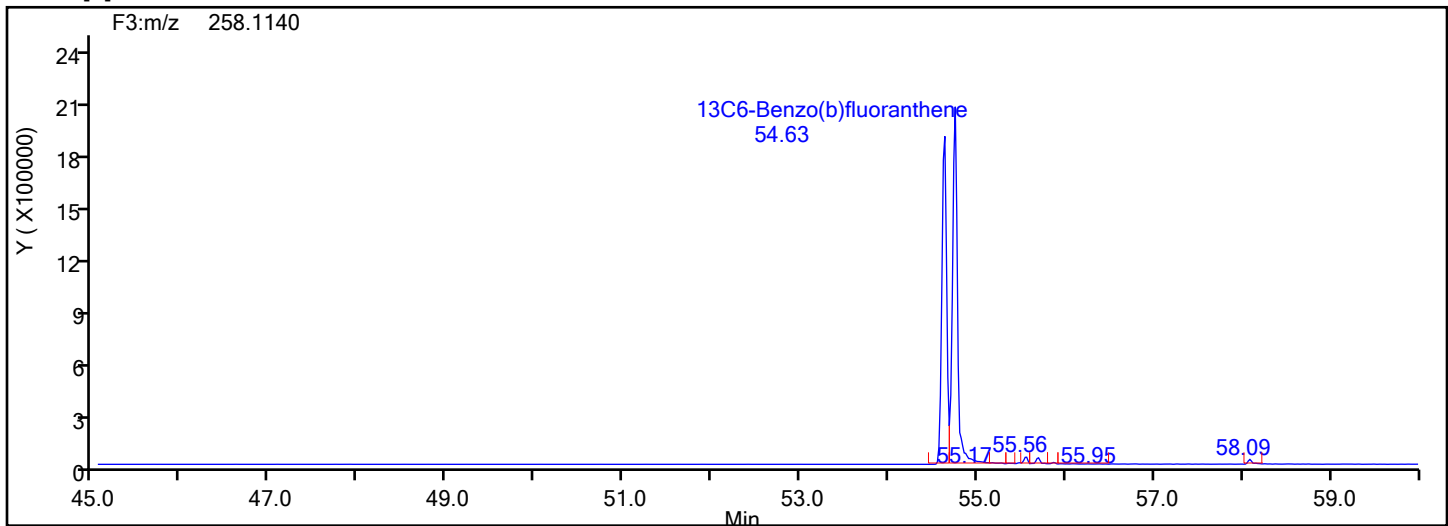
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



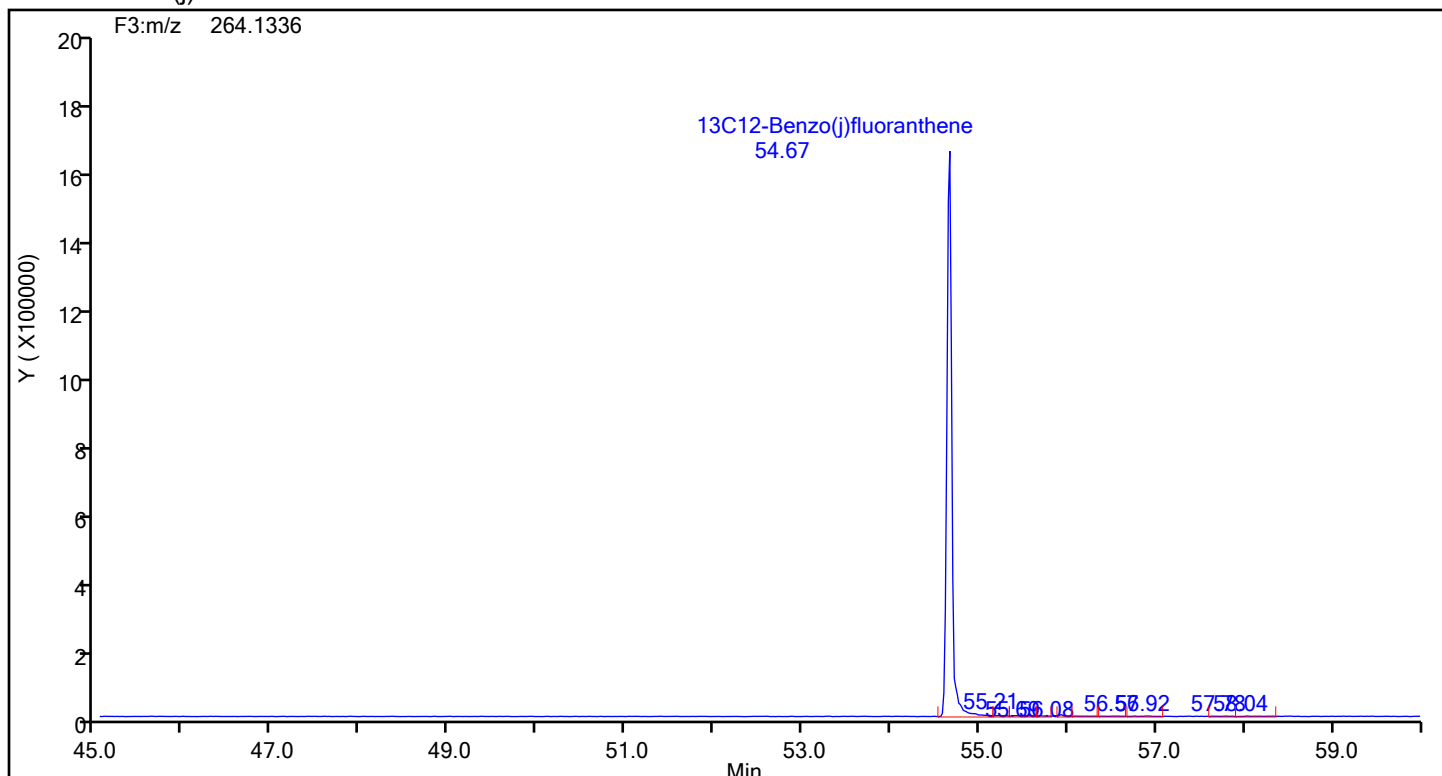
Benzo[b]fluoranthene Standards



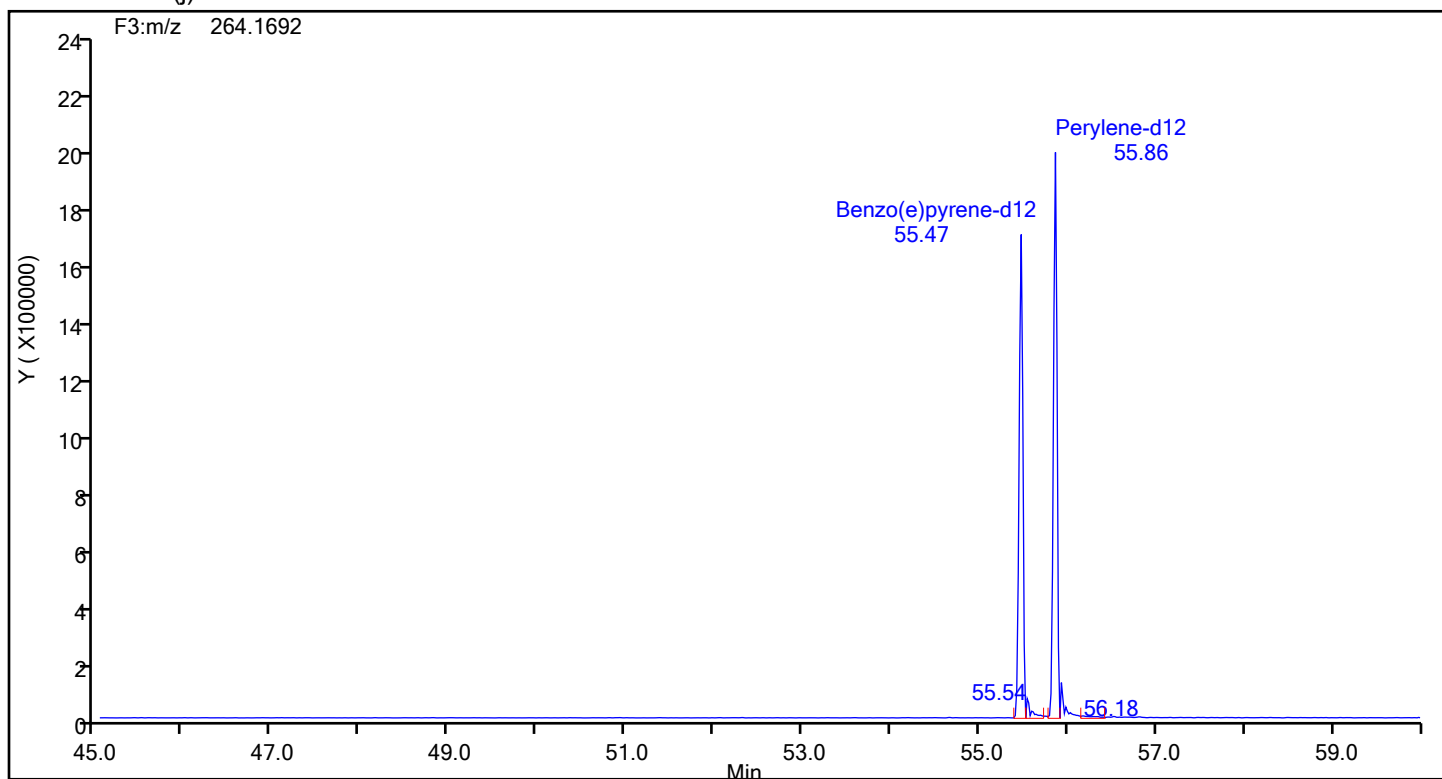
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



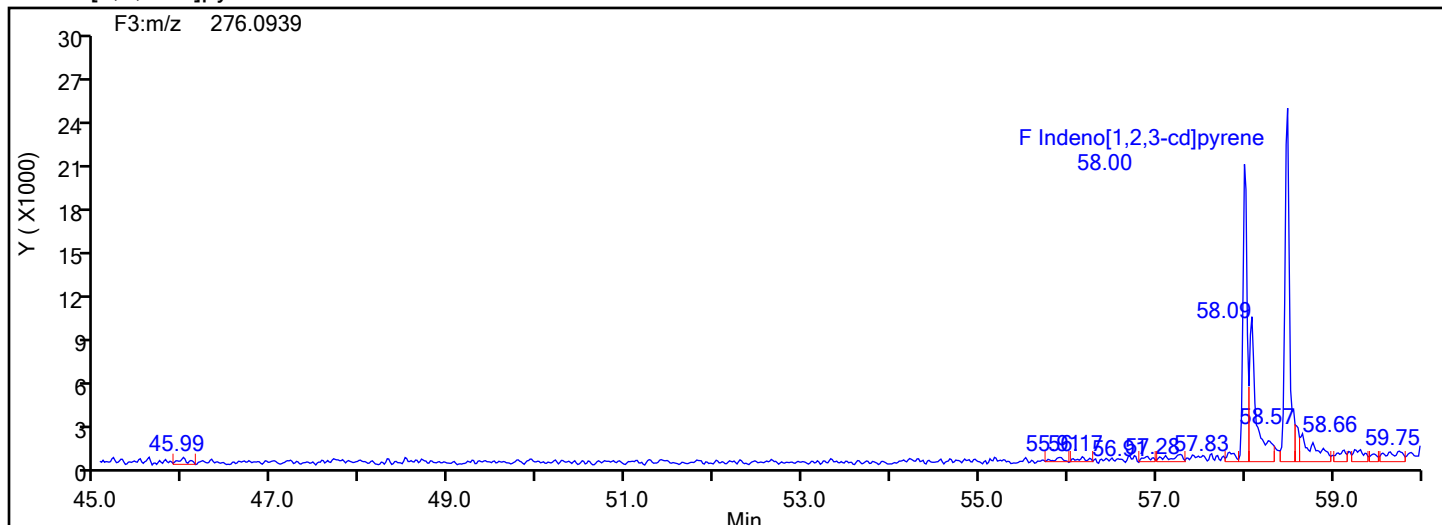
13C12-Benzo(j)fluoranthene Standards



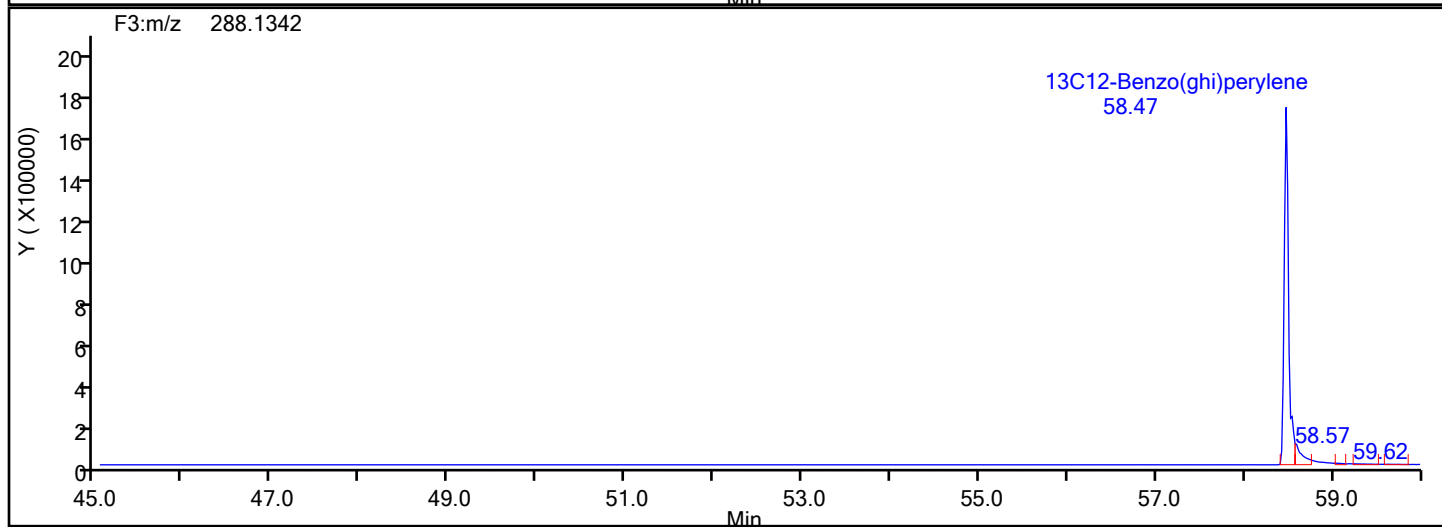
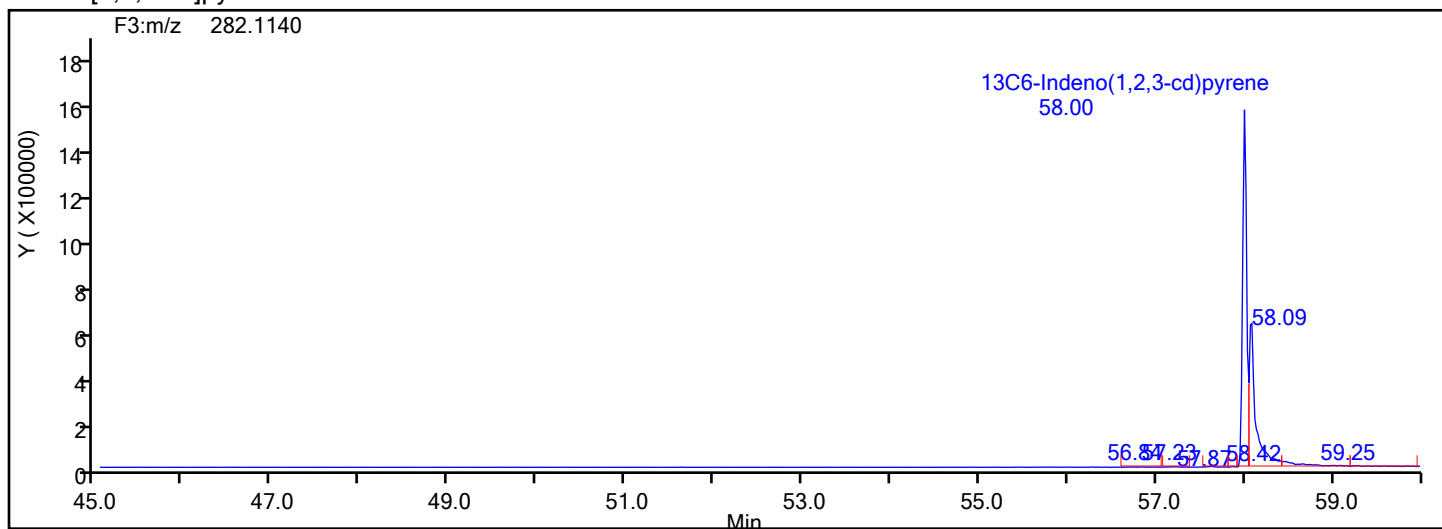
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

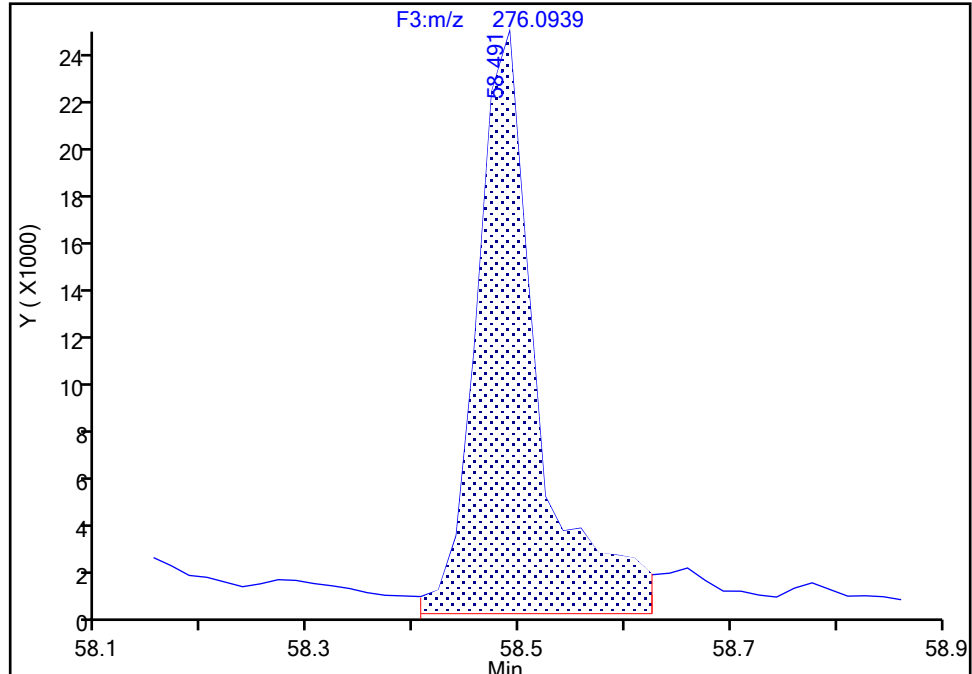
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Instrument ID: D3PAH
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

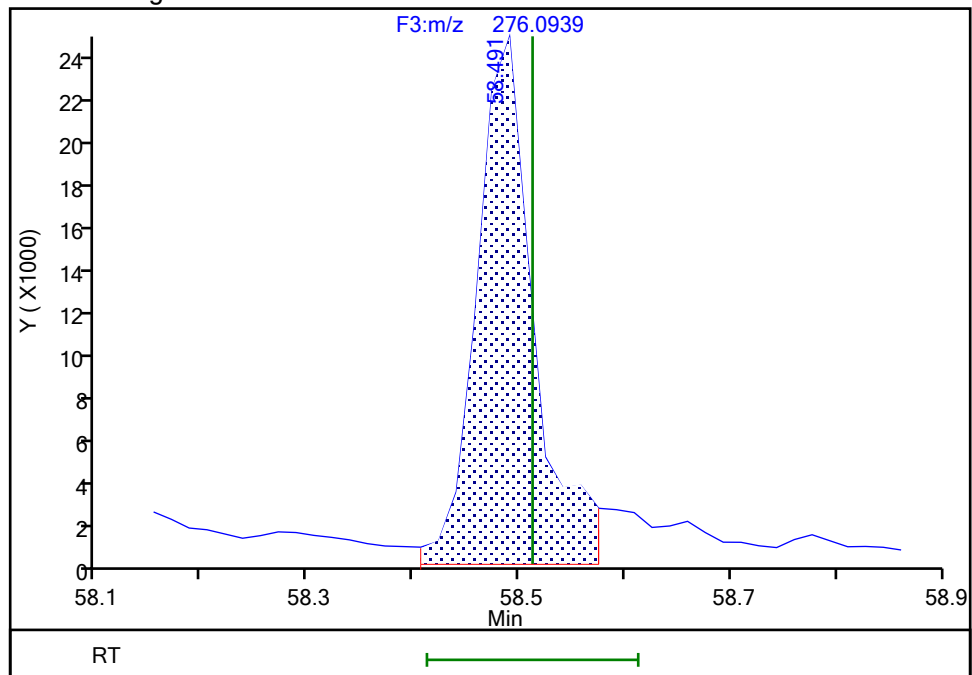
RT: 58.49
Area: 95023
Amount: 1.000000
Amount Units: pg/ul

Processing Integration Results



RT: 58.49
Area: 89871
Amount: 1.181423
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:14:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

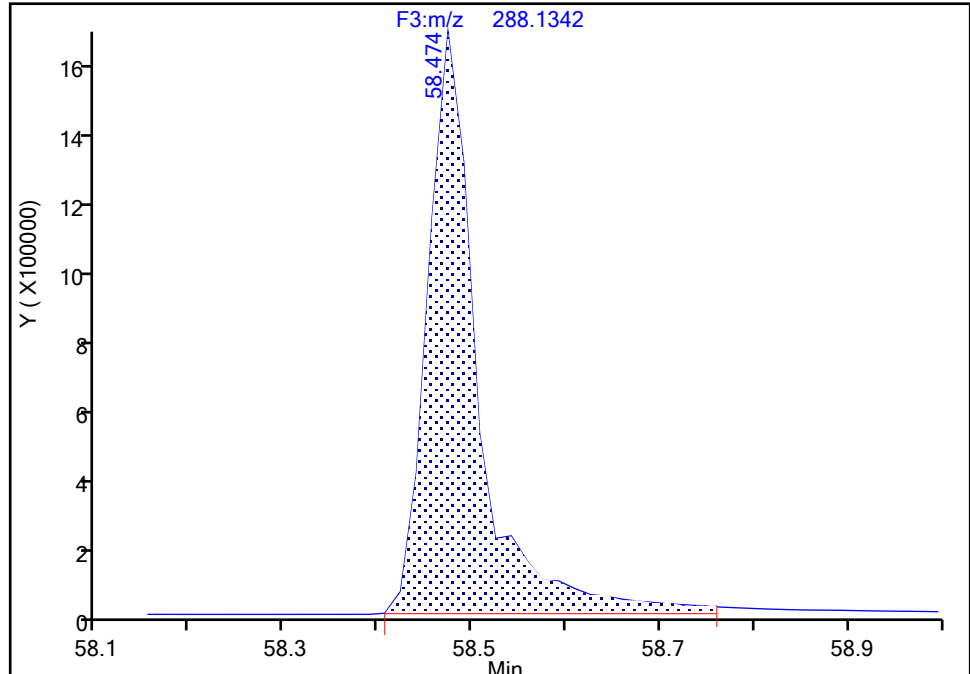
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Instrument ID: D3PAH
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

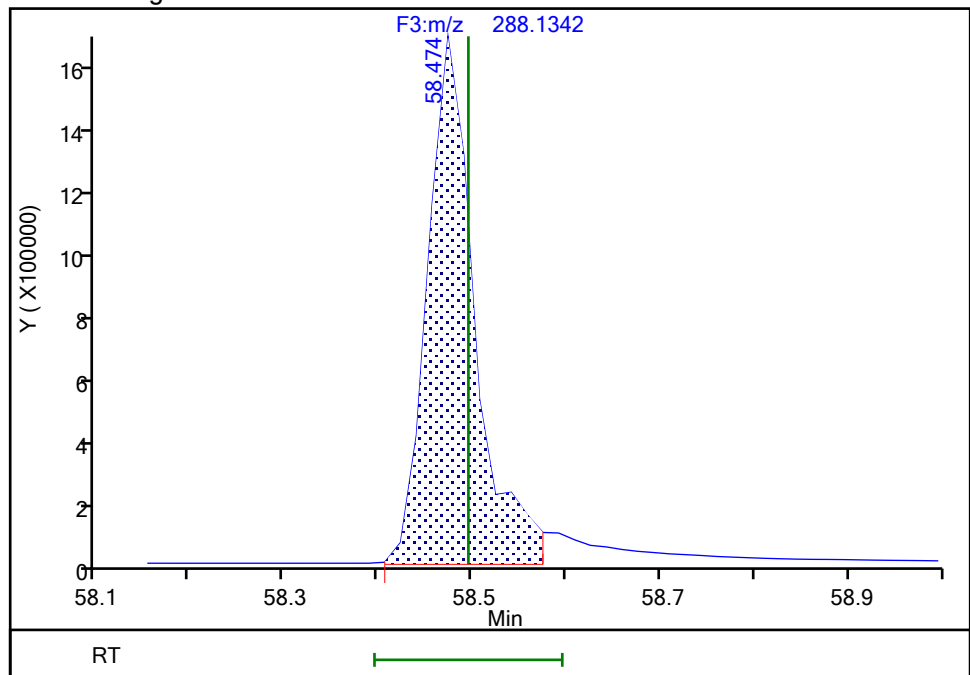
RT: 58.47
Area: 6416165
Amount: 100.0000
Amount Units: pg/ul

Processing Integration Results



RT: 58.47
Area: 5925593
Amount: 91.841777
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:14:36 -04:00:00 (UTC)

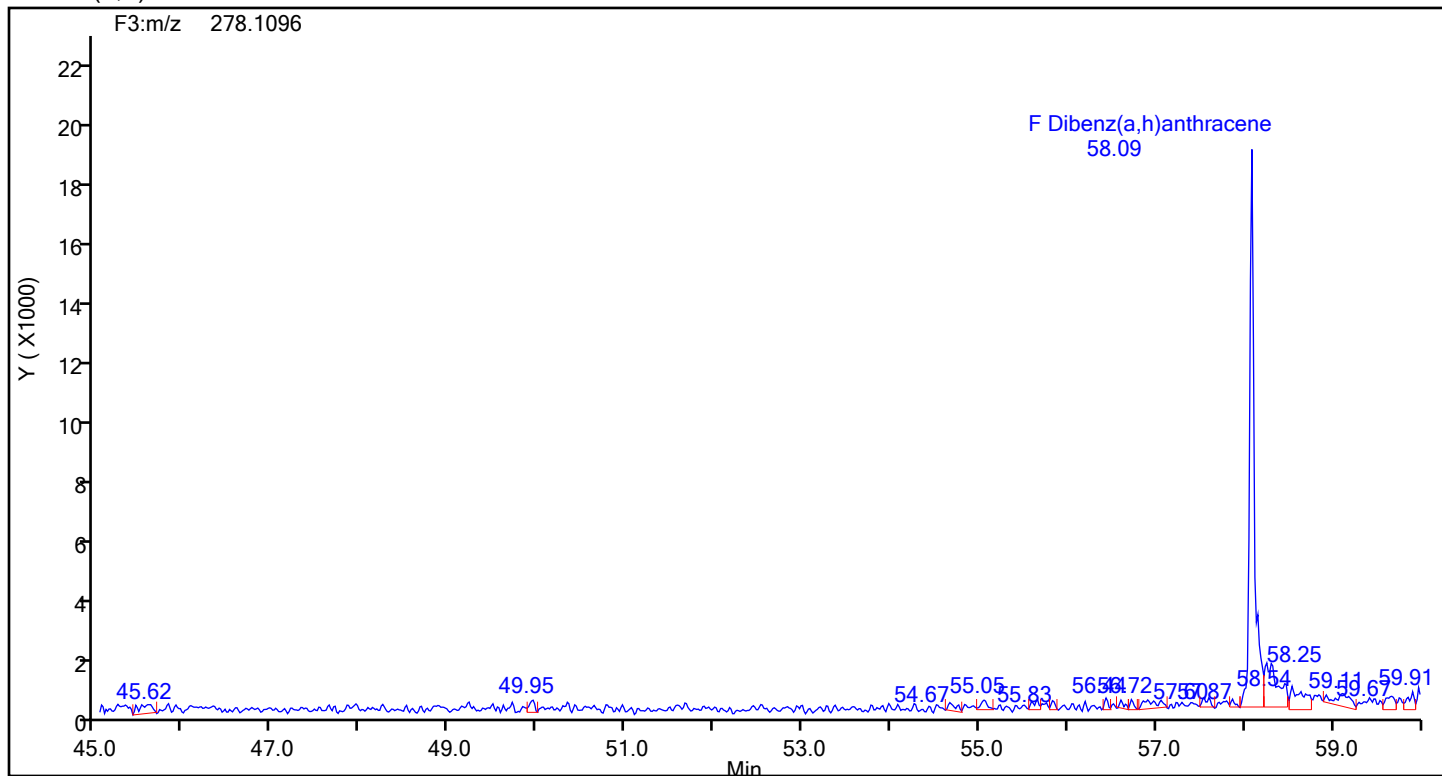
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

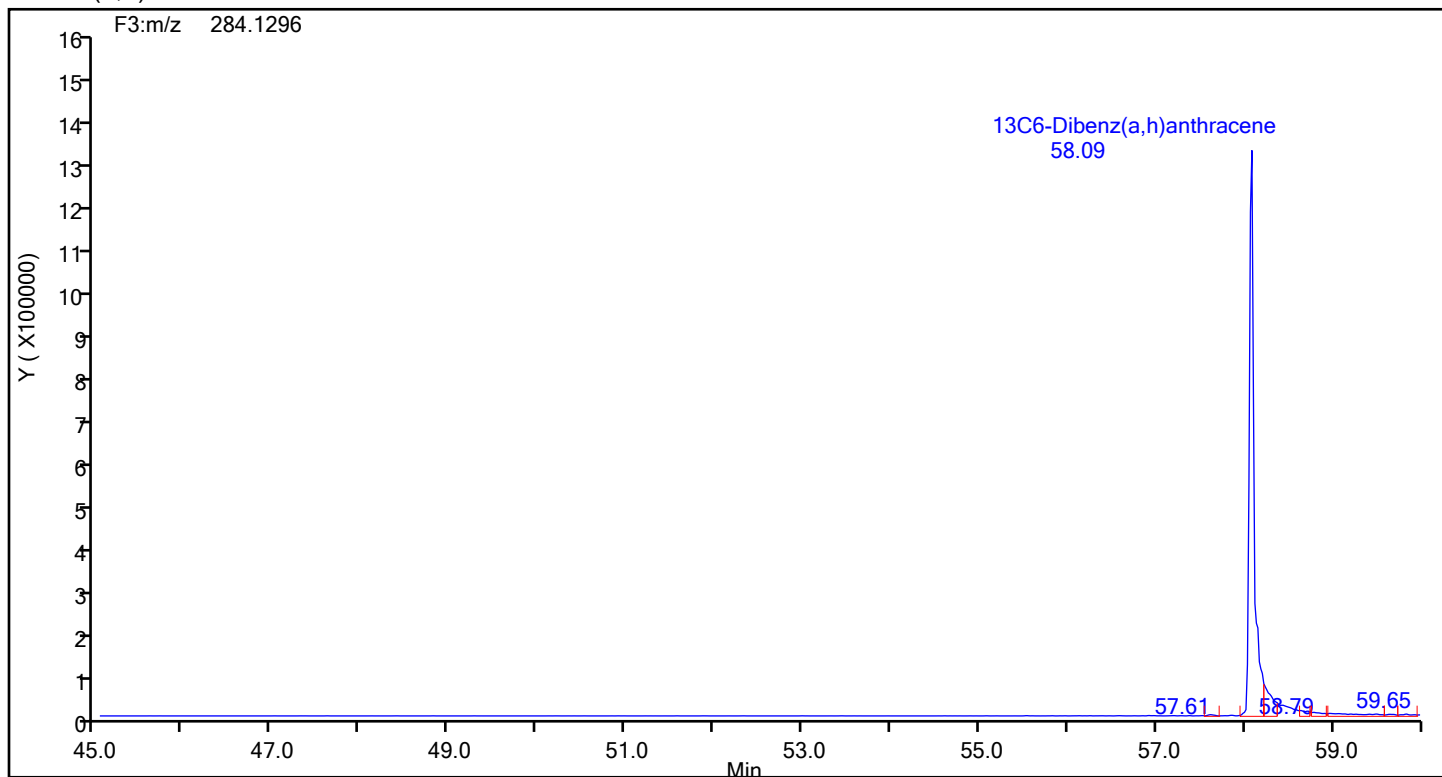
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

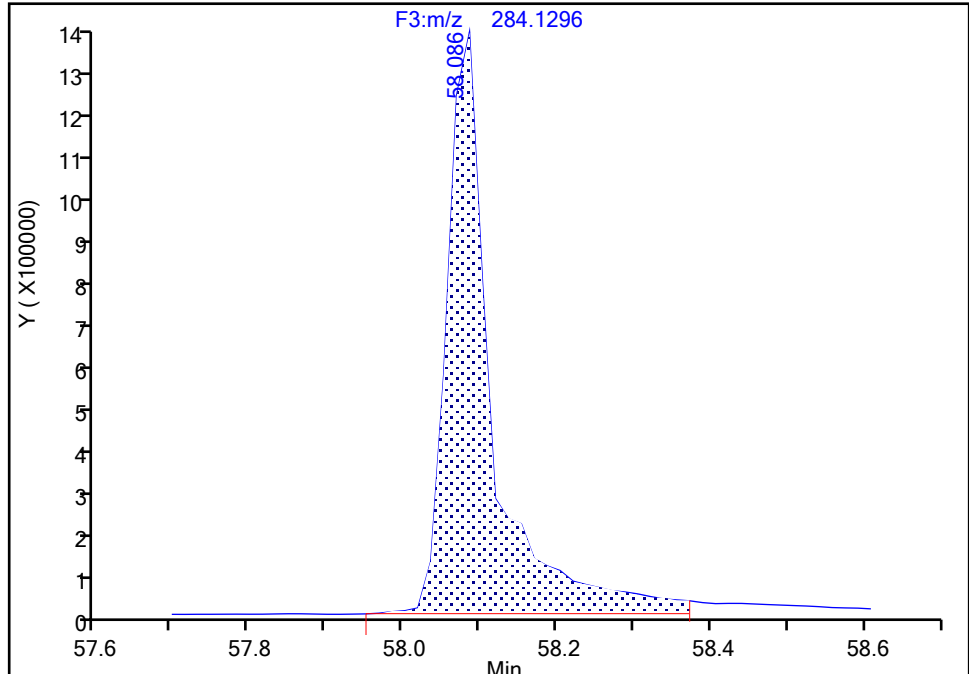
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic1.d
Injection Date: 19-Jun-2024 16:34:00 Instrument ID: D3PAH
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

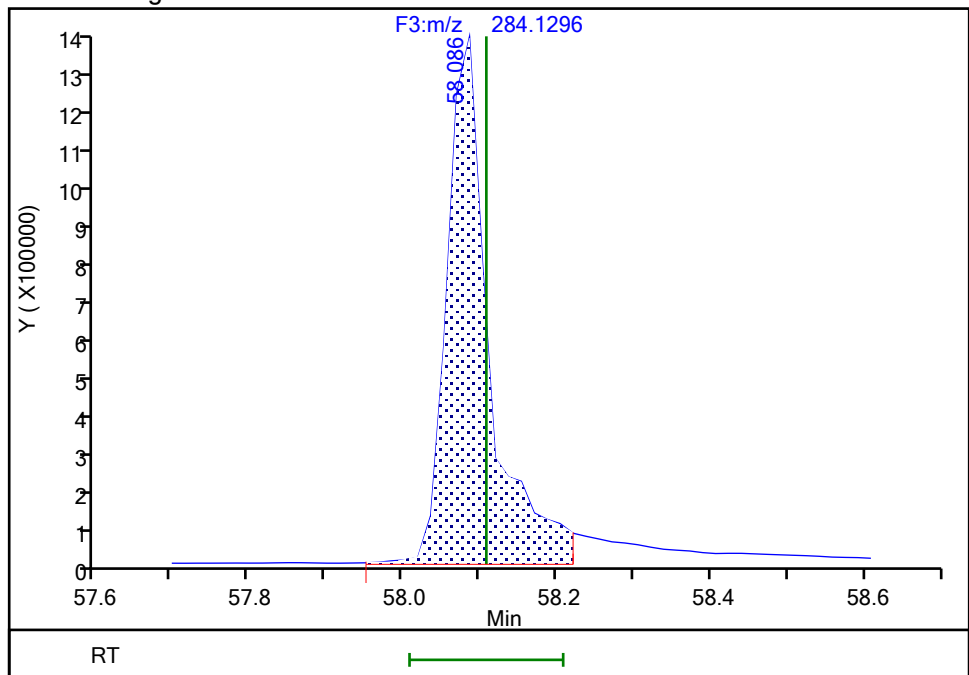
RT: 58.09
Area: 5487366
Amount: 100.0000
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 5080699
Amount: 95.134127
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:15:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10224350		3.3746	101.7	101.7	0.003634	0.003634	102	
Naphthalene	11:33	1289701		1.2893	9.784	9.784	0.0238	0.0238	489	
D 13C6-2-Methylnaphthalene	13:52	4888063		1.6031	102.4	102.4	0.000734	0.000734	102	
2-Methylnaphthalene	13:53	566769		1.2786	9.069	9.069	0.0258	0.0258	453	
D 13C6-Acenaphthylene	16:45	4790245		1.6520	97.3	97.3	0.002078	0.002078	97.34	
Acenaphthylene	16:45	133174		2.3661	2.014	2.014	0.0260	0.0260	101	
* Acenaphthene-d10	17:20	2978908		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2794458		0.9792	95.8	95.8	0.002705	0.002705	95.80	
Acenaphthene	17:27	191300		1.2697	5.392	5.392	0.0282	0.0282	270	
D 13C6-Fluorene	19:45	2550369		0.8898	96.2	96.2	0.000551	0.000551	96.21	
Fluorene	19:45	116608		1.2532	3.649	3.649	0.0384	0.0384	182	
D 13C6-Phenanthrene	25:08	3753474		0.5724	92.4	92.4	0.001945	0.001945	92.38	
Phenanthrene	25:08	212656		1.1044	5.130	5.130	0.0373	0.0373	256	
\$ Anthracin-d10	25:21	2916395		0.4257	96.5	96.5	0.001743	0.001743	96.52	
D 13C6-Anthracene	25:28	2927417		0.4523	91.2	91.2	0.002461	0.002461	91.18	
Anthracene	25:28	91204		1.3586	2.293	2.293	0.0413	0.0413	115	
D 13C6-Fluoranthrene	33:53	7938309		1.1994	93.2	93.2	0.0223	0.0223	93.25	
Fluoranthrene	33:54	290190		1.1513	3.175	3.175	0.0156	0.0156	159	
* Pyrene-d10	35:27	7097800		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	8994056		1.3512	93.8	93.8	0.0147	0.0147	93.78	
Pyrene	35:35	274746		1.0652	2.868	2.868	0.0156	0.0156	143	
\$ 13C6-Benzo(c)fluorene	39:18	3790719		0.5136	104.0	104.0	0.003612	0.003612	104	
D 13C6-Benzo(a)anthracene	46:08	7671524		1.5189	100.4	100.4	0.0158	0.0158	100	
Benzo[a]anthracene	46:08	162720		0.9739	2.178	2.178	0.0170	0.0170	109	
D 13C6-Chrysene	46:24	8190879		1.6287	100.0	100.0	0.0147	0.0147	100	
Chrysene	46:24	225899		0.9815	2.810	2.810	0.0162	0.0162	141	
D 13C6-Benzo(b)fluoranthene	54:40	6995957		1.4621	95.2	95.2	0.000890	0.000890	95.16	
Benzo[b]fluoranthene	54:40	246308		1.1249	3.130	3.130	0.0109	0.0109	156	
\$ 13C12-Benzo(j)fluoranthene	54:42	6569551		1.3558	96.4	96.4	0.0171	0.0171	96.36	
D 13C6-Benzo(k)fluoranthene	54:47	8172987		1.7507	92.8	92.8	0.000743	0.000743	92.85	
Benzo[k]fluoranthene	54:47	219658		1.1271	2.385	2.385	0.009644	0.009644	119	
* Benzo(e)pyrene-d12	55:30	5028172		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7870944		1.6368	95.6	95.6	0.0115	0.0115	95.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	196775		1.0013	2.497	2.497	0.008899	0.008899	125	
Benzo[a]pyrene	55:44	178284		1.1130	2.174	2.174	0.009155	0.009155	109	
D 13C4-Benzo(a)pyrene	55:44	7368833		1.5508	94.5	94.5	0.0121	0.0121	94.50	
D Perylene-d12	55:54	5811383		1.1917	97.0	97.0	0.0176	0.0176	96.99	
Perylene	55:58	186178		1.4307	2.239	2.239	0.007678	0.007678	112	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	5418391		1.0218	105.5	105.5	0.0114	0.0114	105	M
Indeno[1,2,3-cd]pyrene	58:02	130664		1.1249	2.144	2.144	0.008694	0.008694	107	
D 13C6-Dibenz(a,h)anthracene	58:07	5414078		1.0553	102.0	102.0	0.005158	0.005158	102	M
Dibenz(a,h)anthracene	58:07	131743		1.1314	2.151	2.151	0.007222	0.007222	108	
D 13C12-Benzo(ghi)perylene	58:30	6532018		1.2749	101.9	101.9	0.005893	0.005893	102	M
Benzo[g,h,i]perylene	58:31	187407		1.2838	2.235	2.235	0.006936	0.006936	112	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS2_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.667	10224350	3453826	50	125	69077		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	1289701	411395	425	1062	968		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4888063	2246421	5	12	449284		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	566769	245185	296	740	828		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.967	4790245	1639631	14	35	117117		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	133174	47551	238	595	200		
Acenaphthene-d10											
164.1404	17:20	17:20	-1		2978908	1019441	1	2	1019441		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2794458	967942	11	27	87995		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	191300	60528	139	347	435		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.140	2550369	737805	2	5	368903		
Fluorene											
166.0783	19:45	19:45	0	1.000	116608	34760	142	355	245		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3753474	874310	6	15	145718		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	212656	49863	144	360	346		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2916395	679015	4	10	169754		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	2927417	641240	6	15	106873		
Anthracene											
178.0783	25:28	25:28	0	1.000	91204	20584	144	360	143		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	7938309	1512092	144	360	10501		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	290190	55341	109	272	508		
Pyrene-d10											
212.1404	35:27	35:27	0		7097800	1347492	10	25	134749		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	8994056	1637719	107	267	15306		
Pyrene											
202.0783	35:35	35:35	0	1.000	274746	51021	109	272	468		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3790719	700534	10	25	70053		
13C6-Benzo(a)anthracene											
234.1140	46:08	46:07	0	1.301	7671524	1301970	162	405	8037		
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	162720	26859	86	215	312		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	8190879	1355570	162	405	8368		
Chrysene											
228.0939	46:24	46:25	-1	1.000	225899	38492	86	215	448		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6995957	1815225	9	22	201692		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	246308	66968	89	222	752		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6569551	1634529	157	392	10411		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8172987	2042470	9	22	226941		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	219658	52976	89	222	595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		5028172	1690356	142	355	11904		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7870944	2491423	127	317	19618		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	196775	66245	89	222	744		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	178284	53714	89	222	604		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7368833	2178757	127	317	17156		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5811383	2020986	142	355	14232		
Perylene											
252.0939	55:58	55:58	0	1.001	186178	59542	89	222	669		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	5418391	1635908	79	197	20708		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	130664	41002	64	160	641		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	5414078	1370824	37	92	37049		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	131743	34780	45	112	773		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	6532018	1796950	51	127	35234		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	187407	47113	64	160	736		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS2_00002

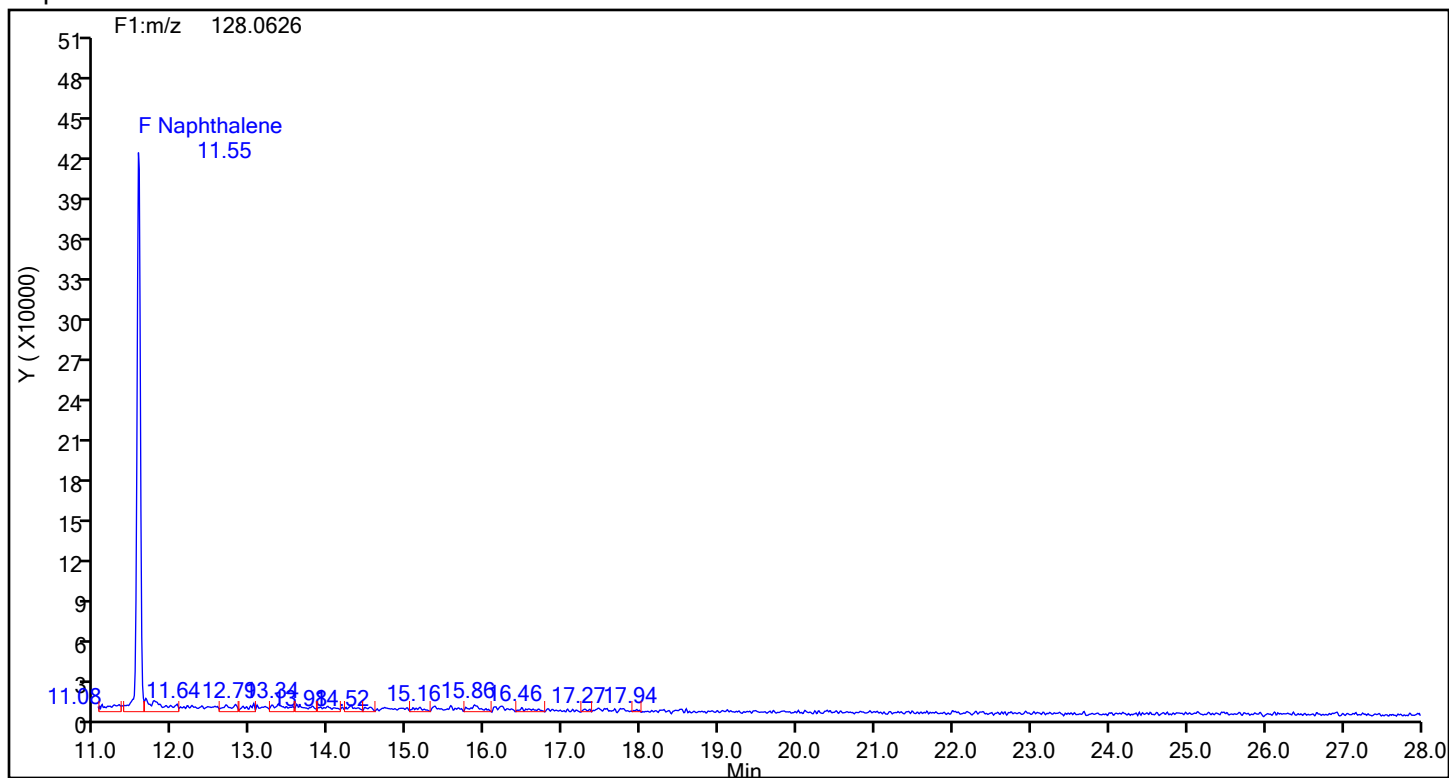
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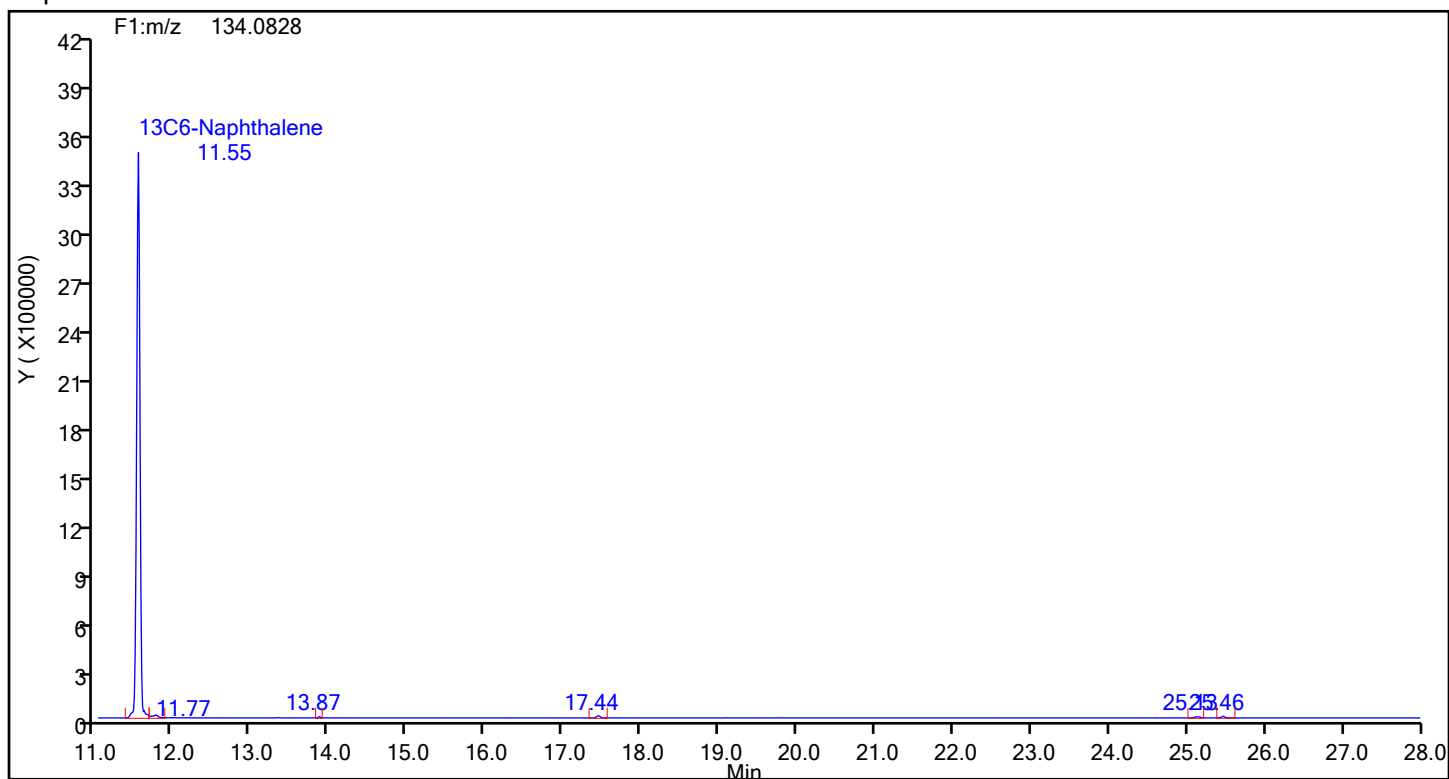
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



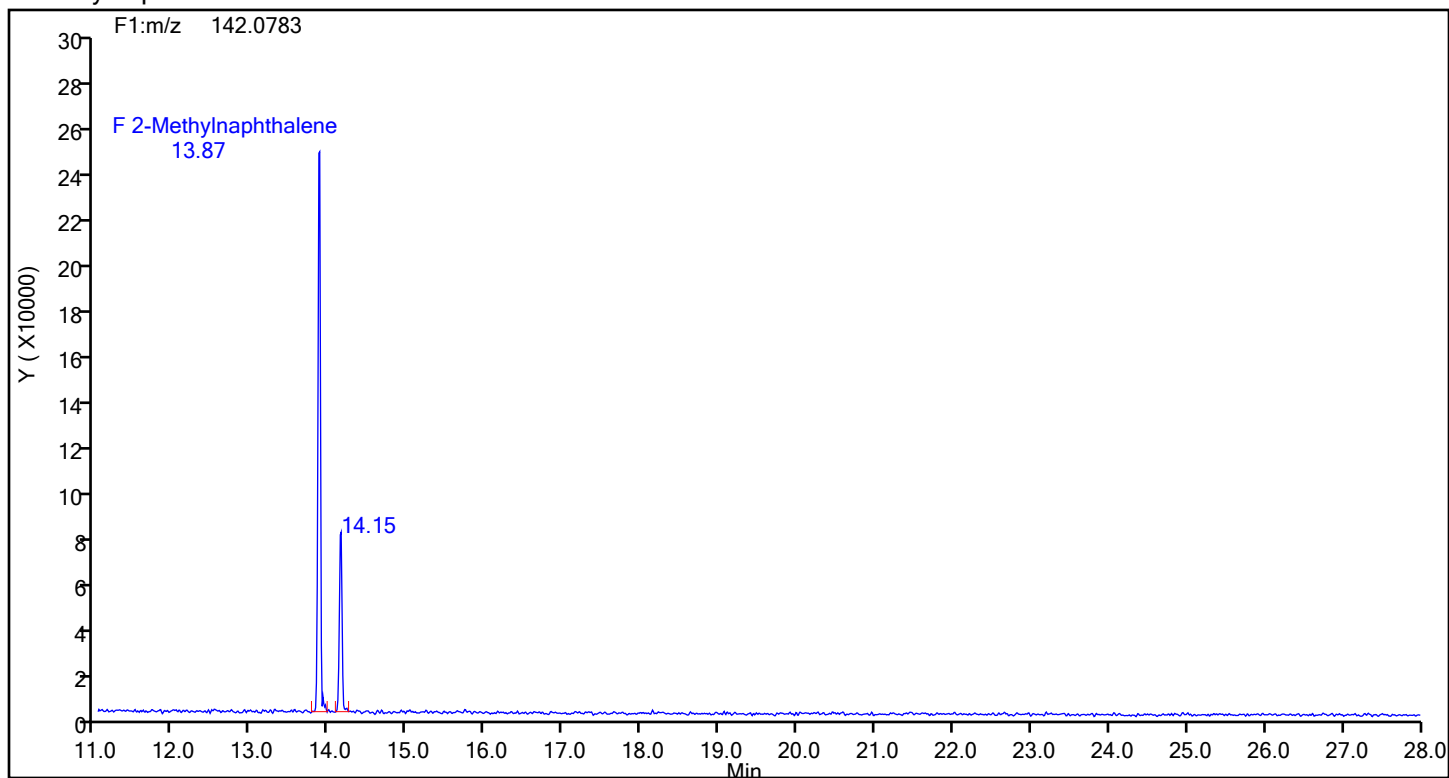
Naphthalene Standards



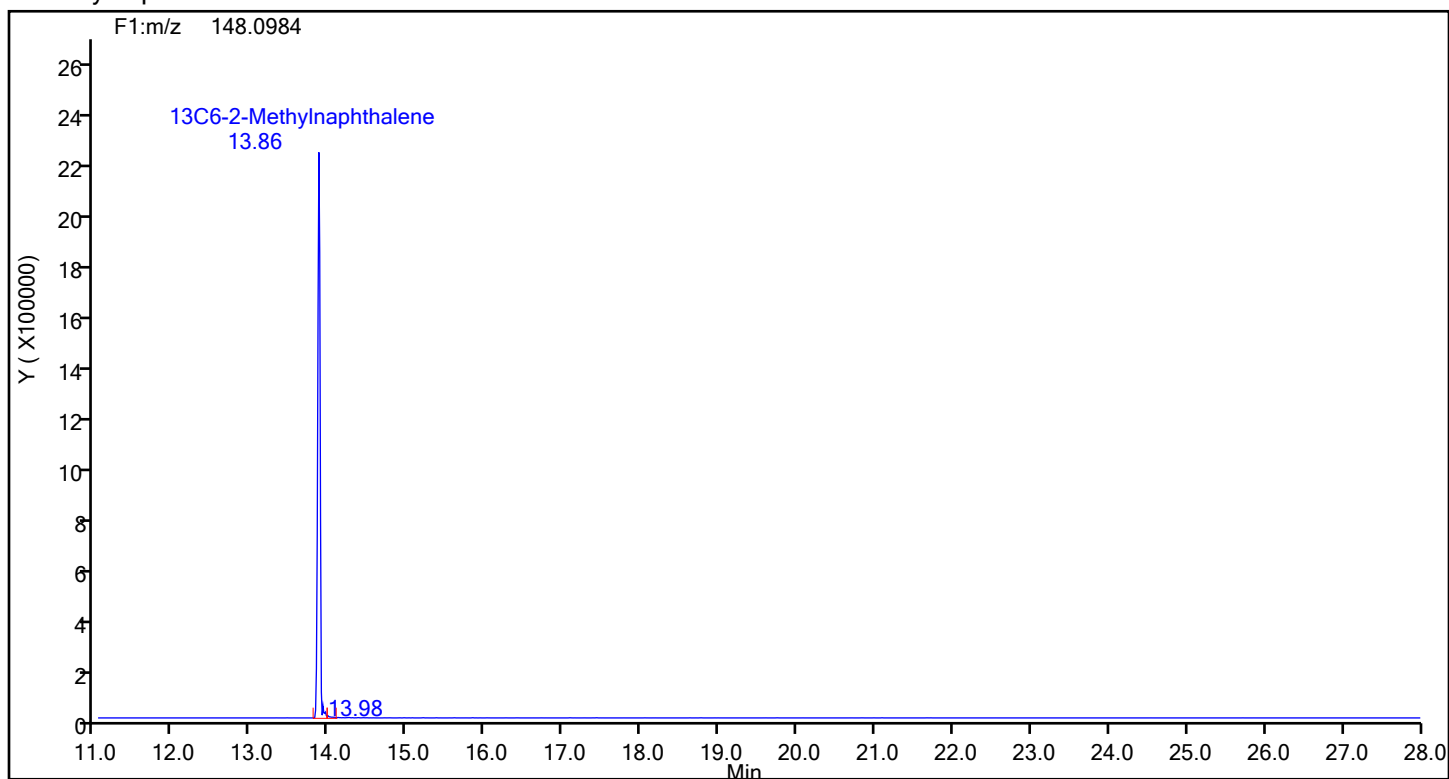
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



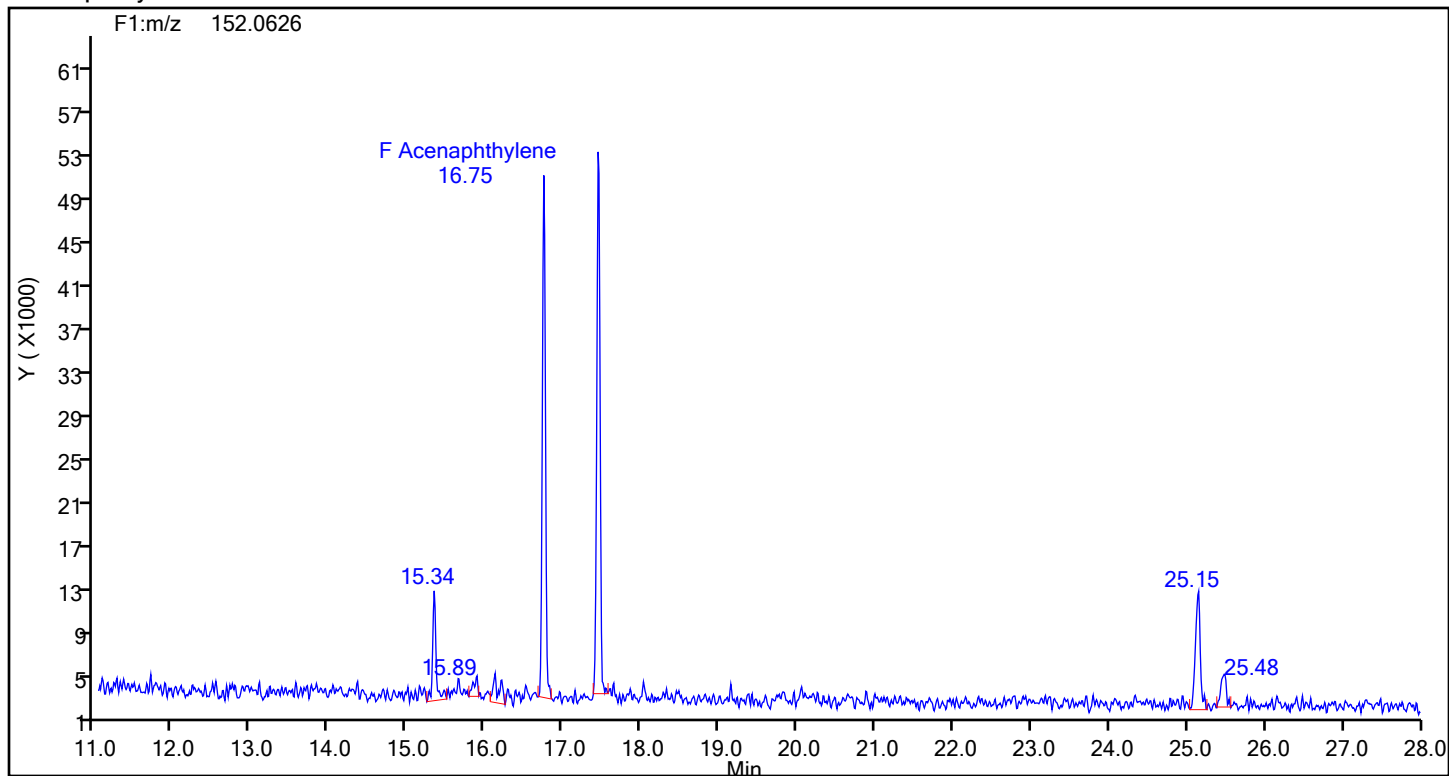
2-Methylnaphthalene Standards



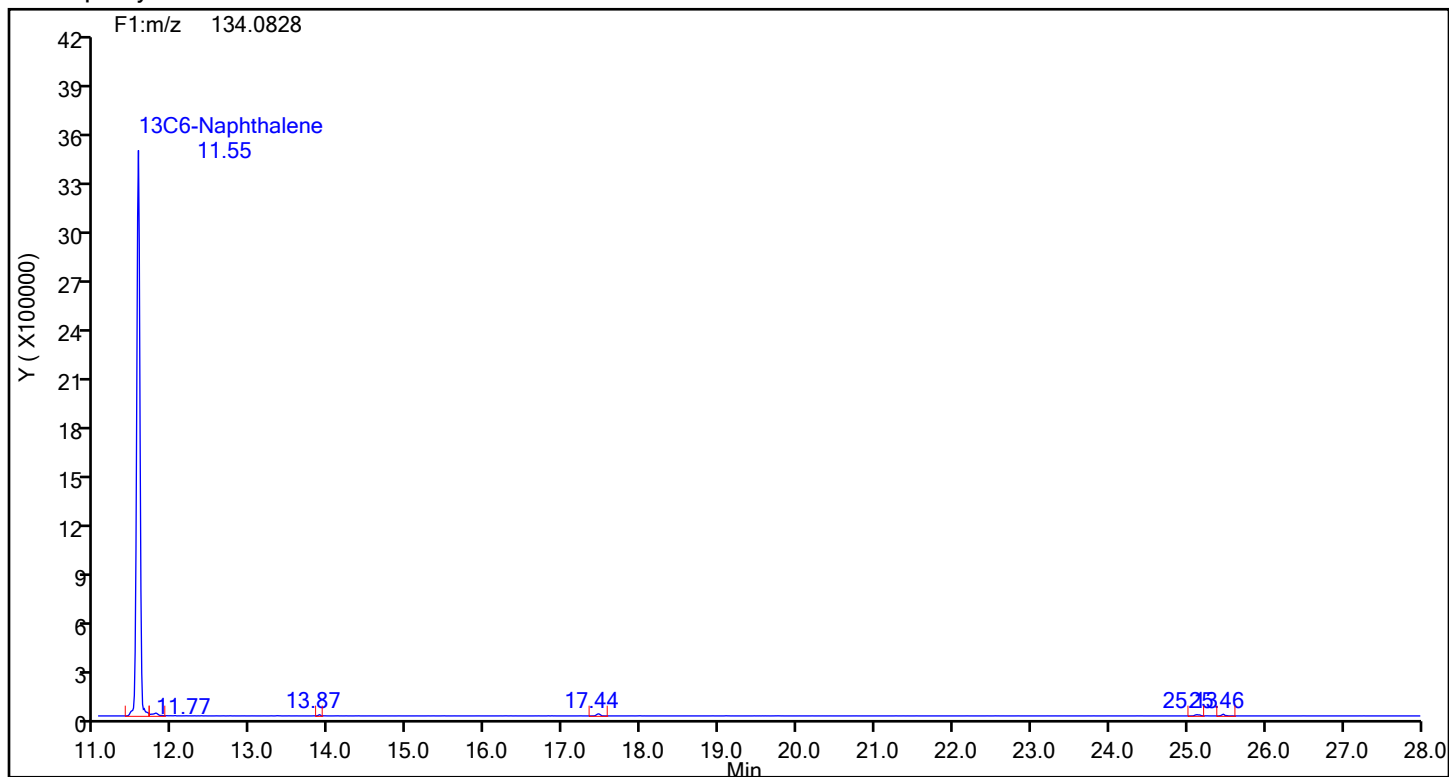
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



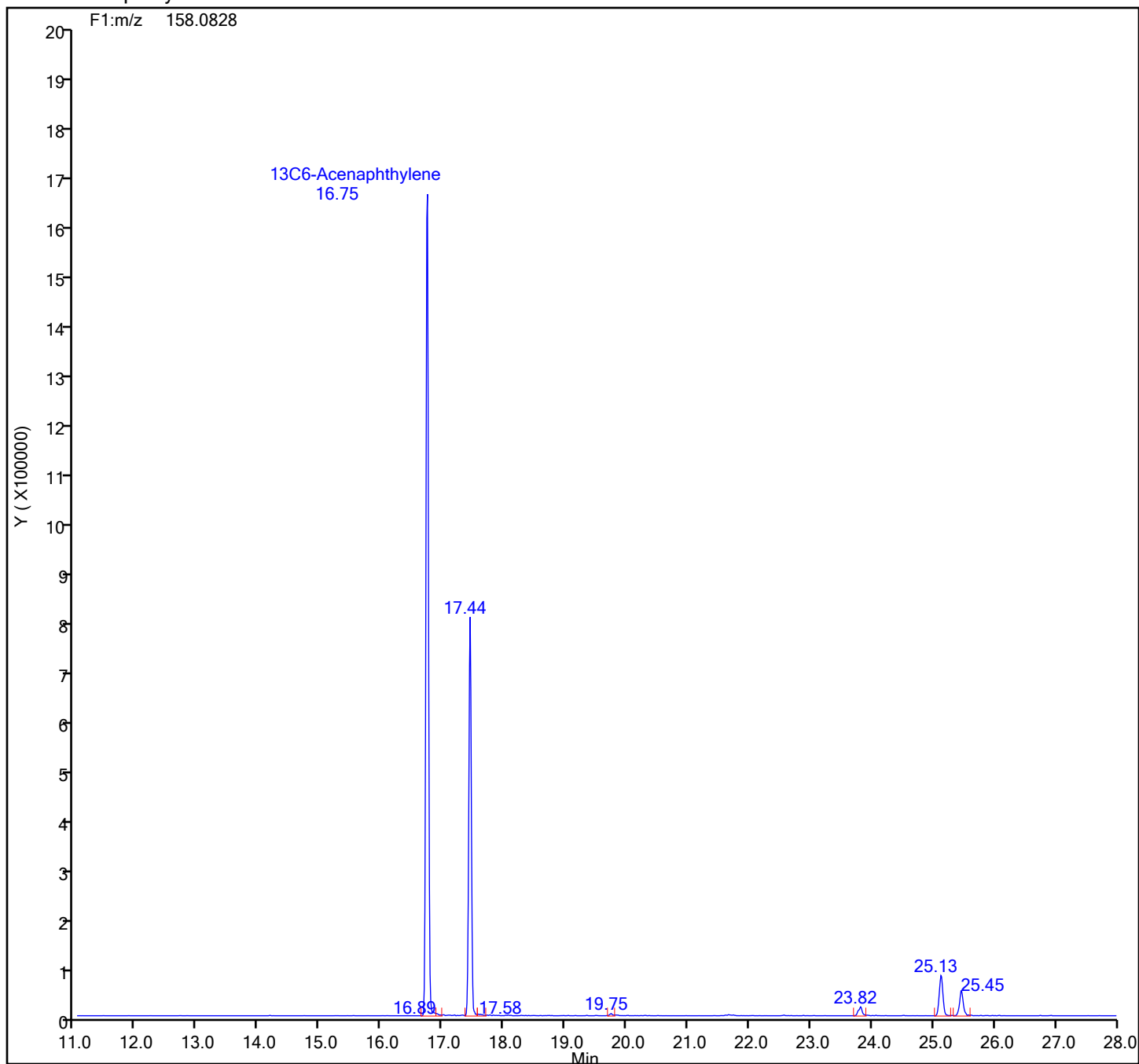
Acenaphthylene Standards



Eurofins Knoxville

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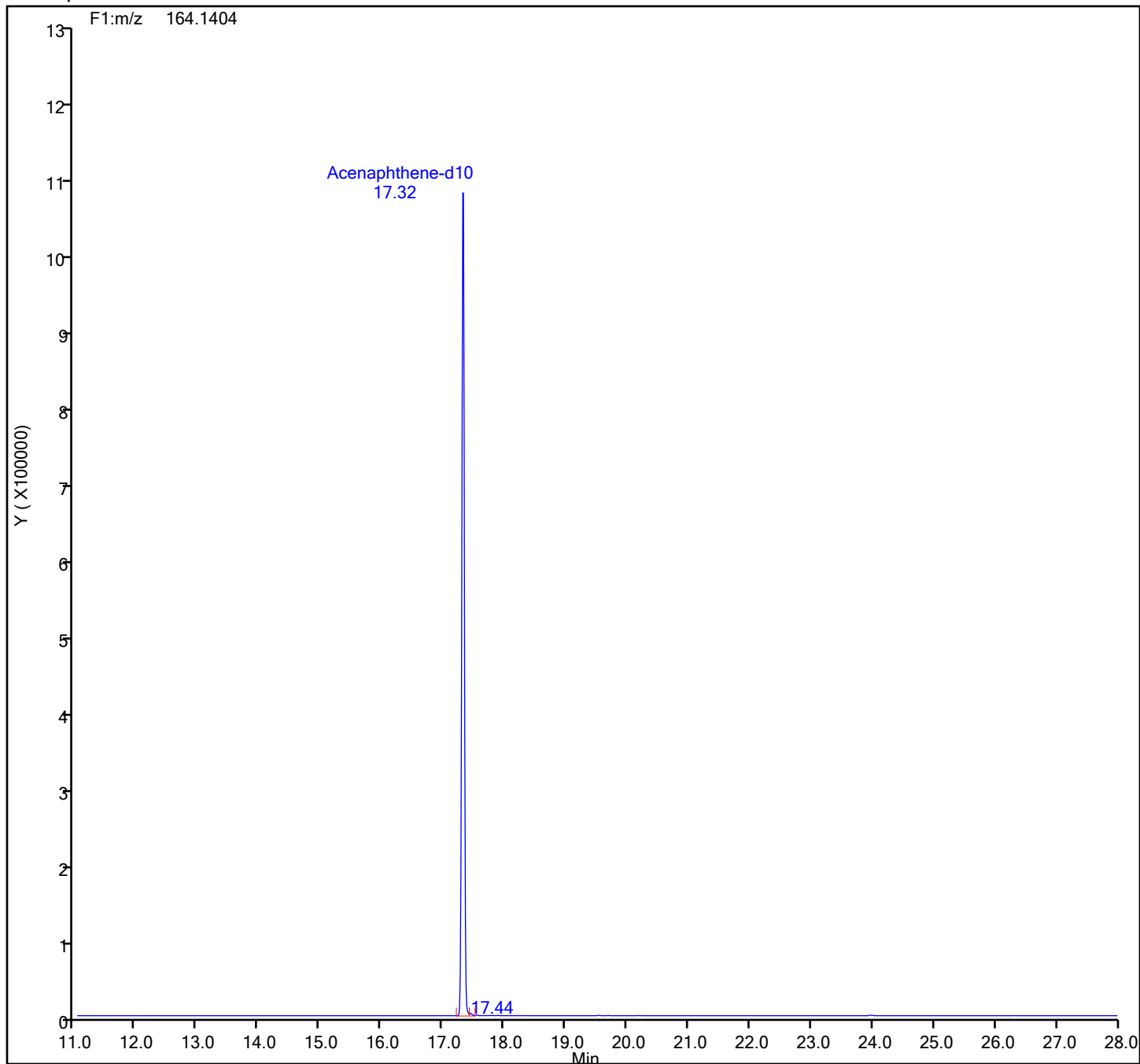
13C6-Acenaphthylene Standards



Eurofins Knoxville

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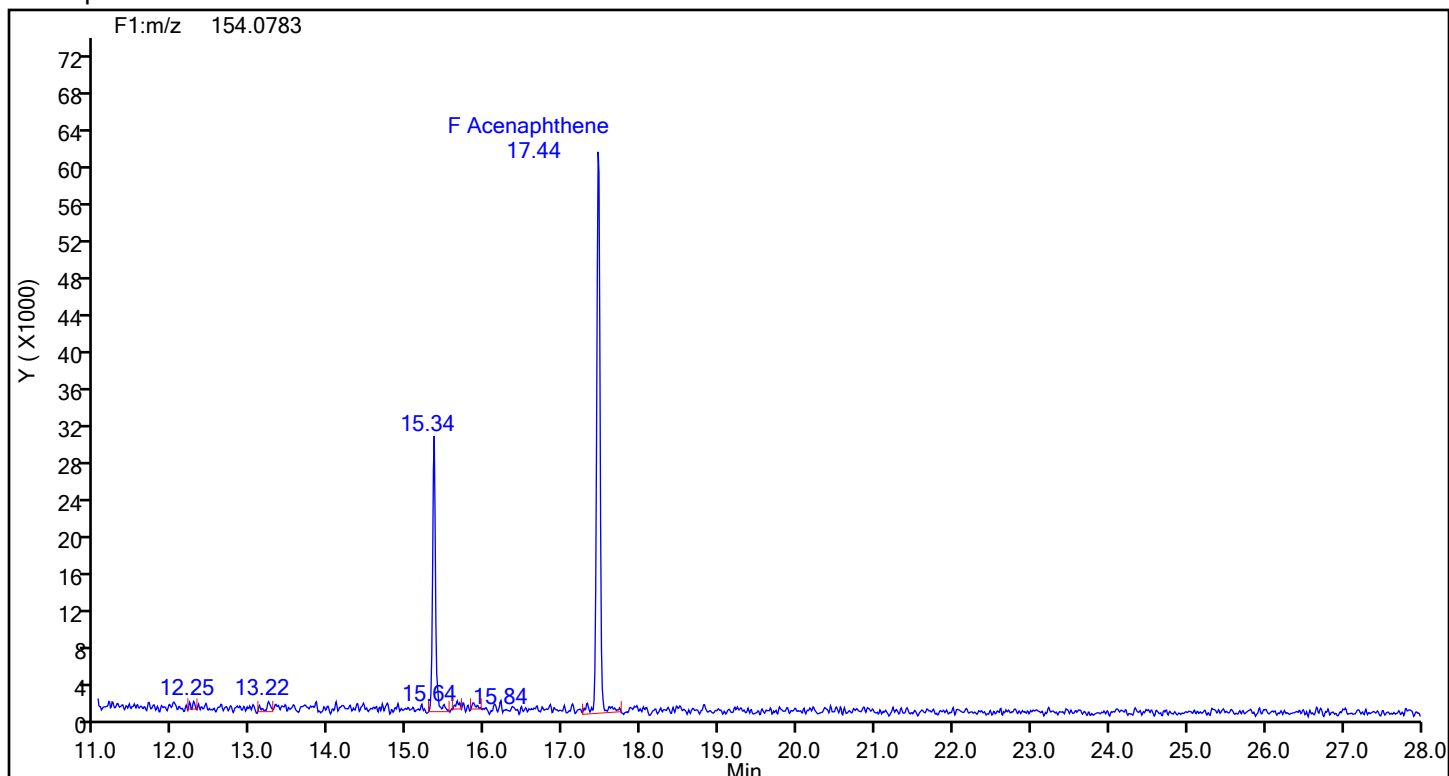
Acenaphthene-d10 Standards



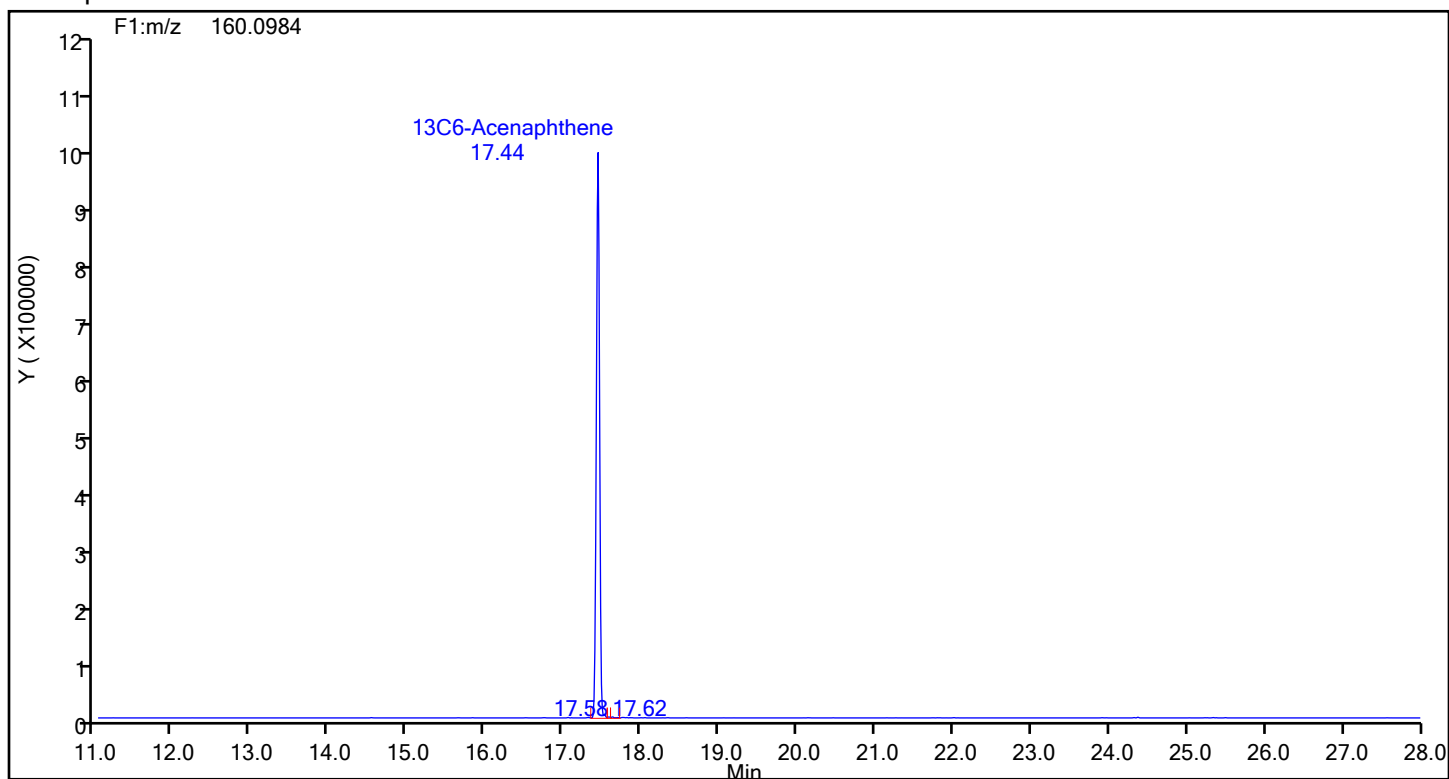
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Acenaphthene



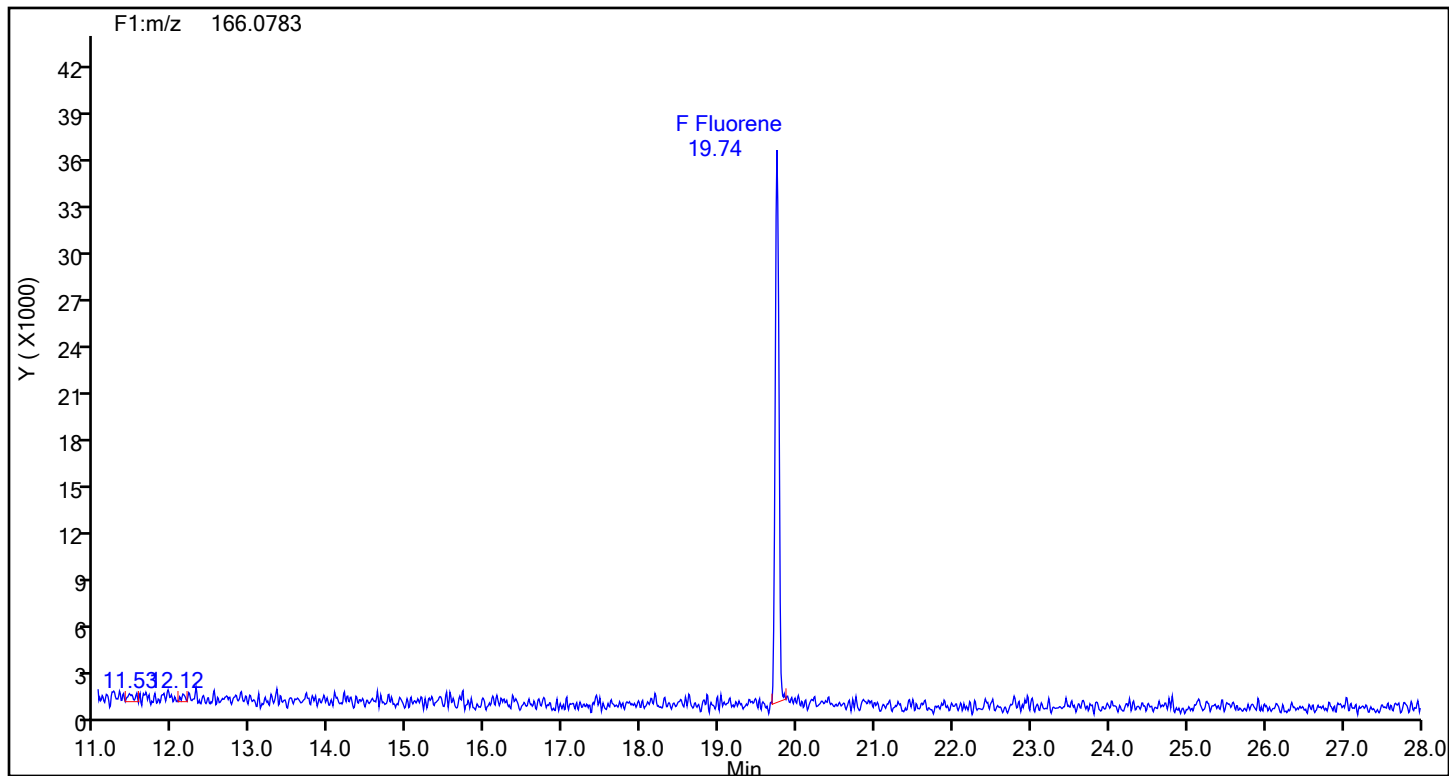
Acenaphthene Standards



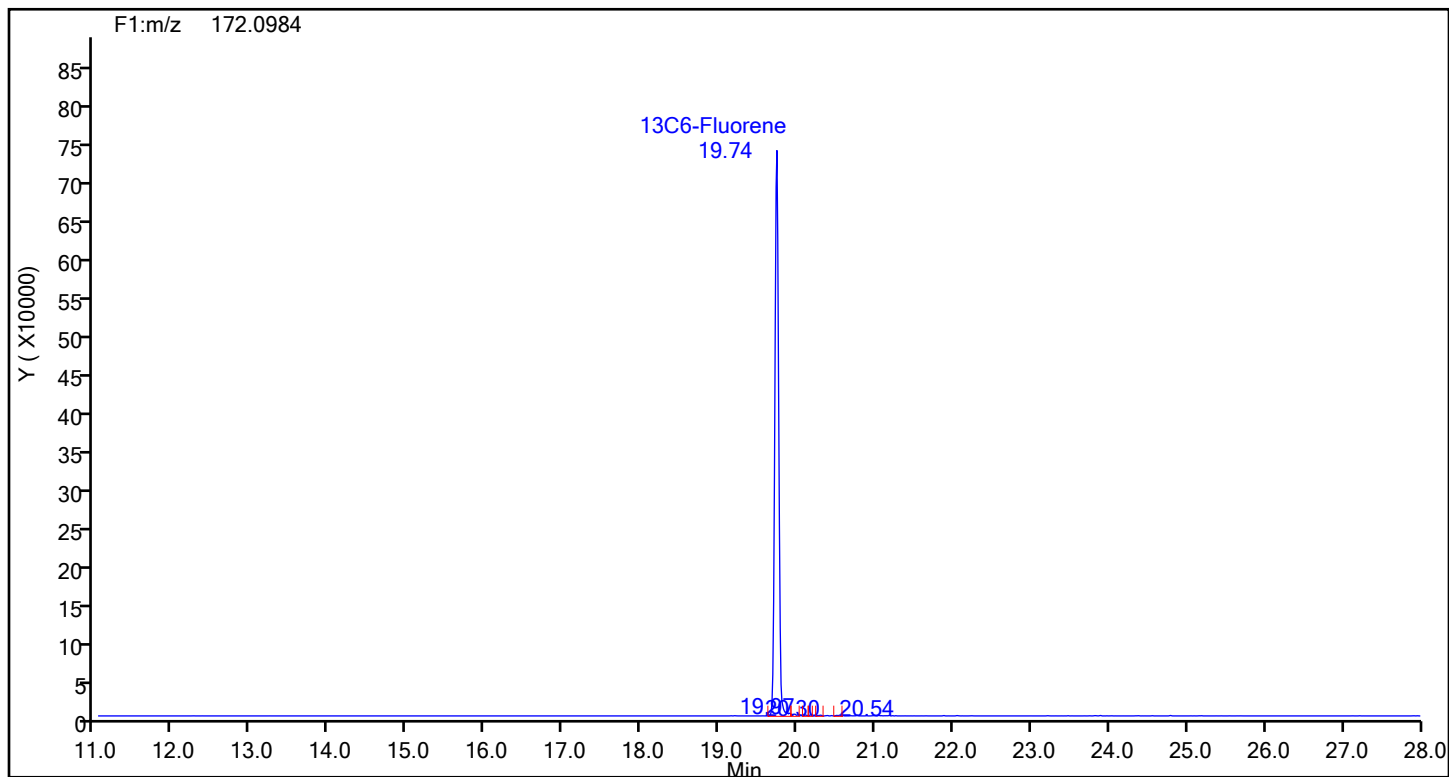
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

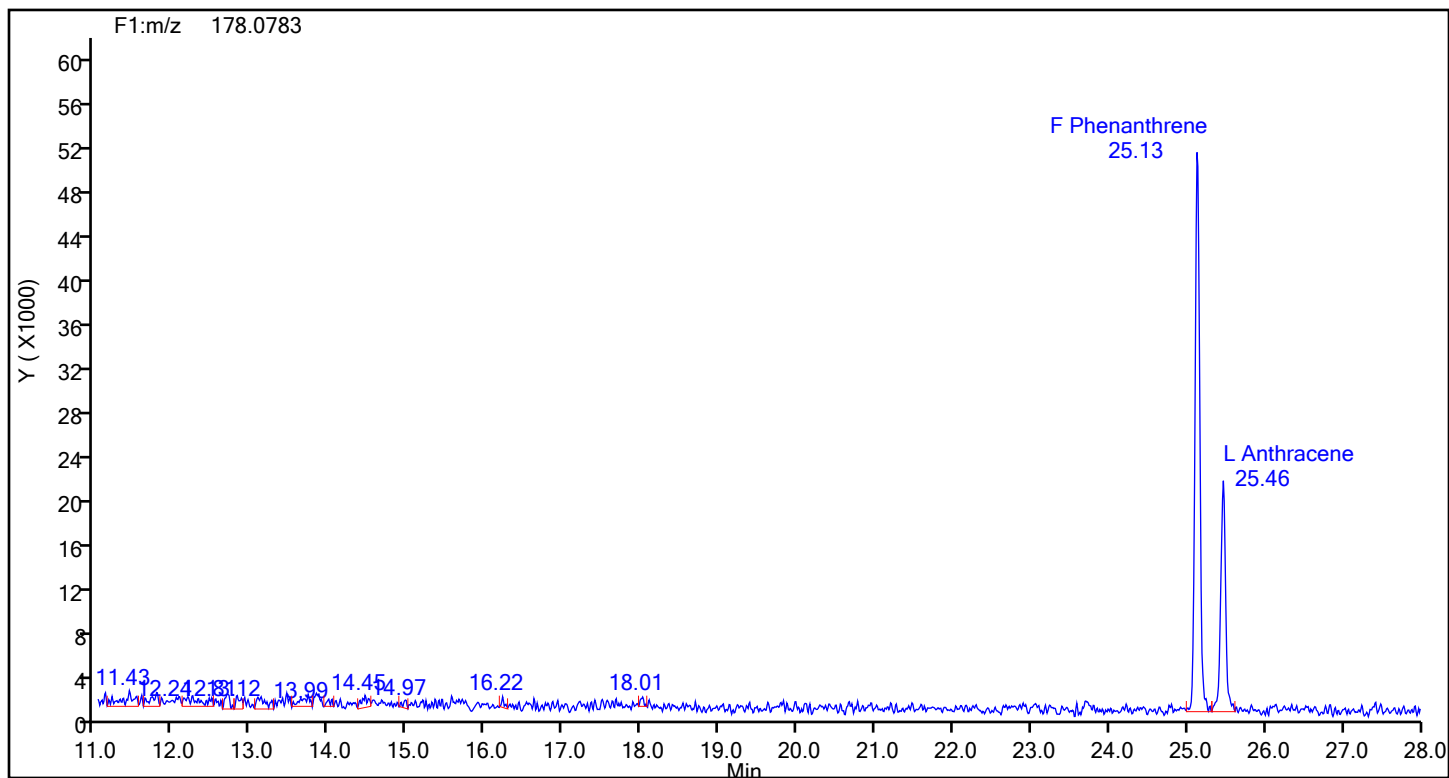


Fluorene Standards

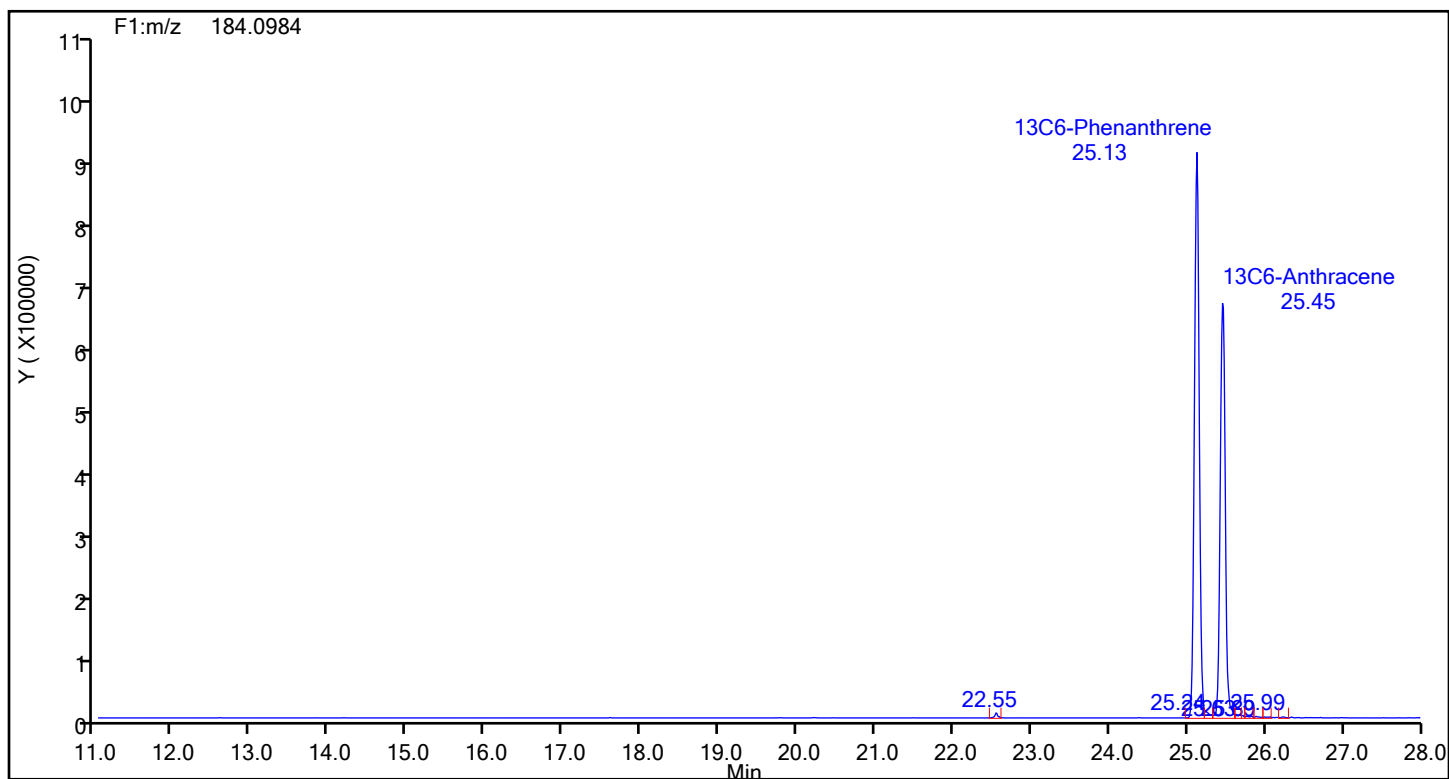


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Phenanthrene

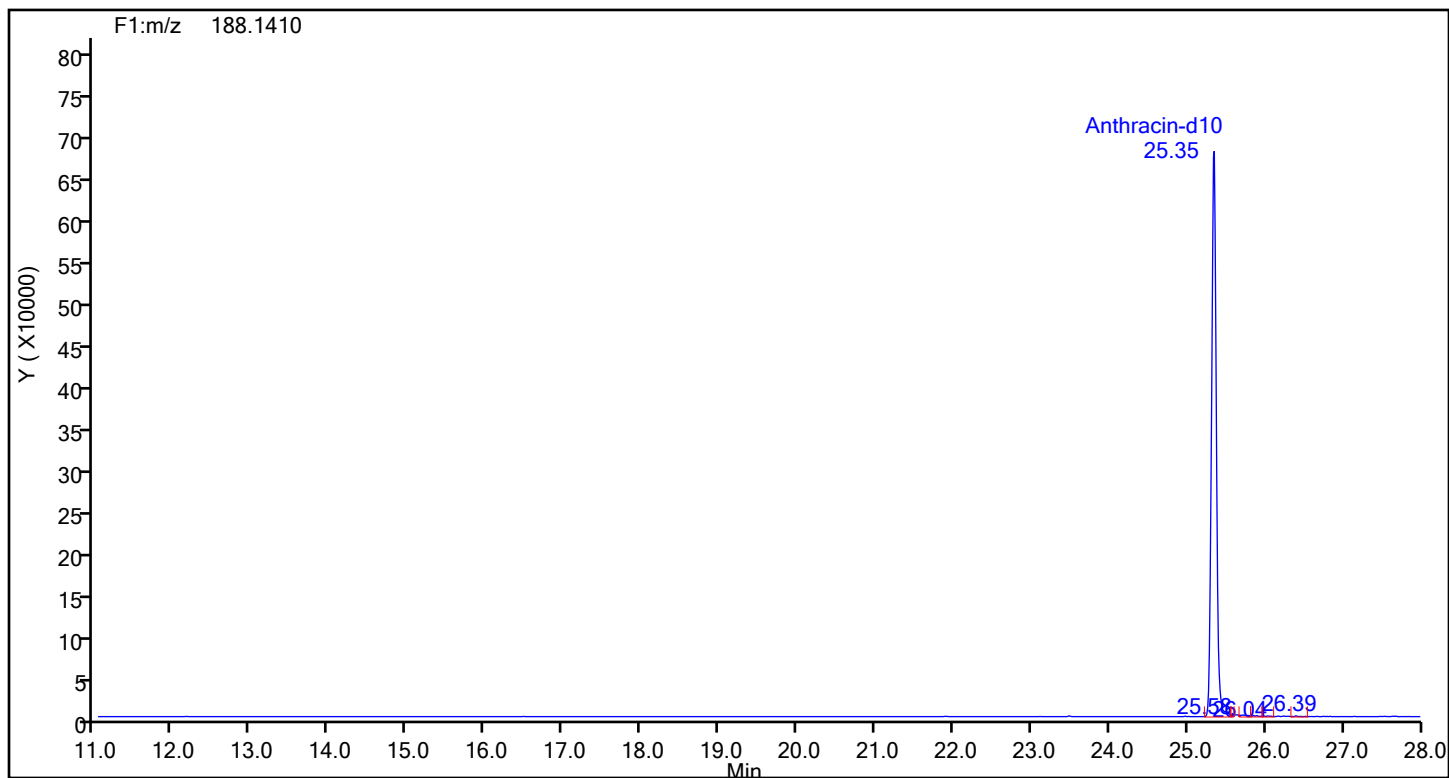


Phenanthrene Standards

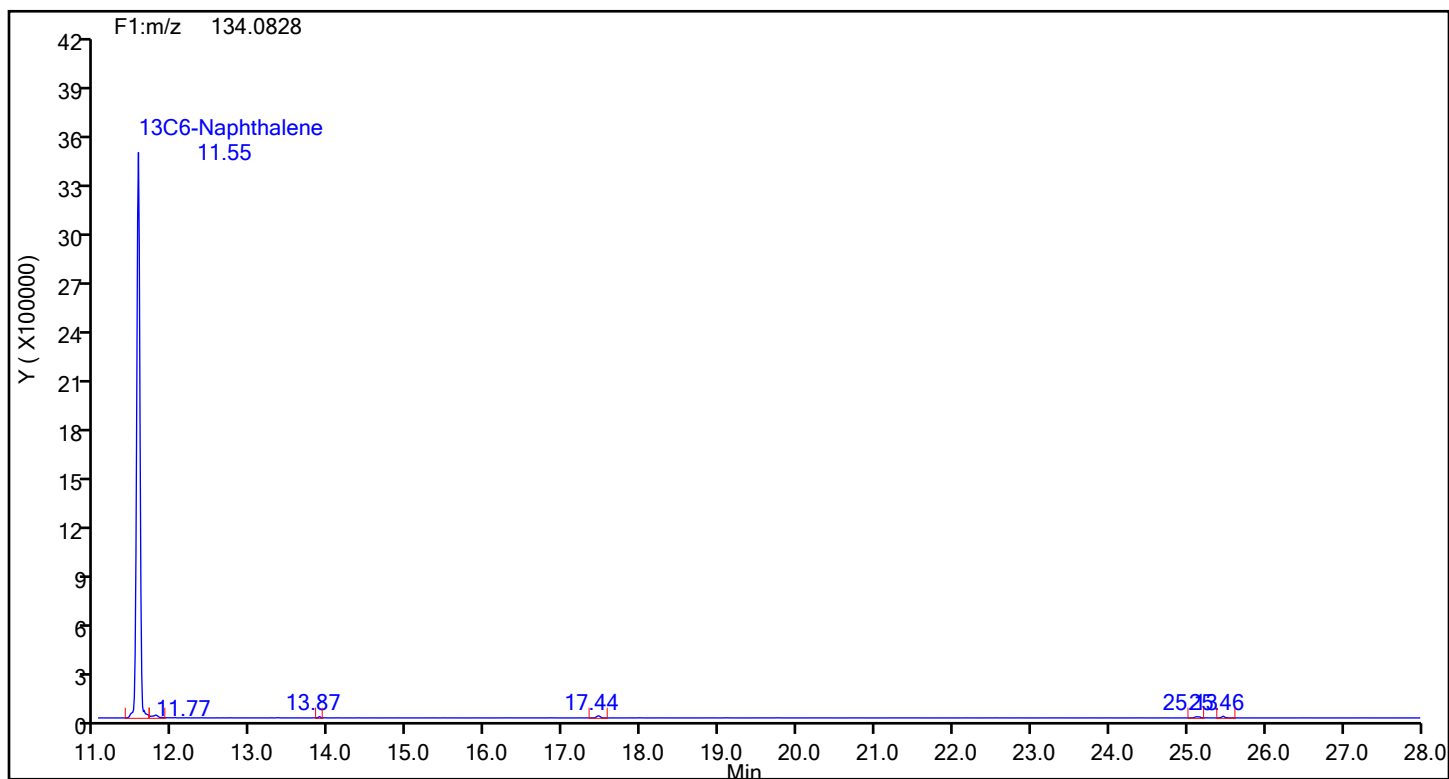


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Anthracin-d10

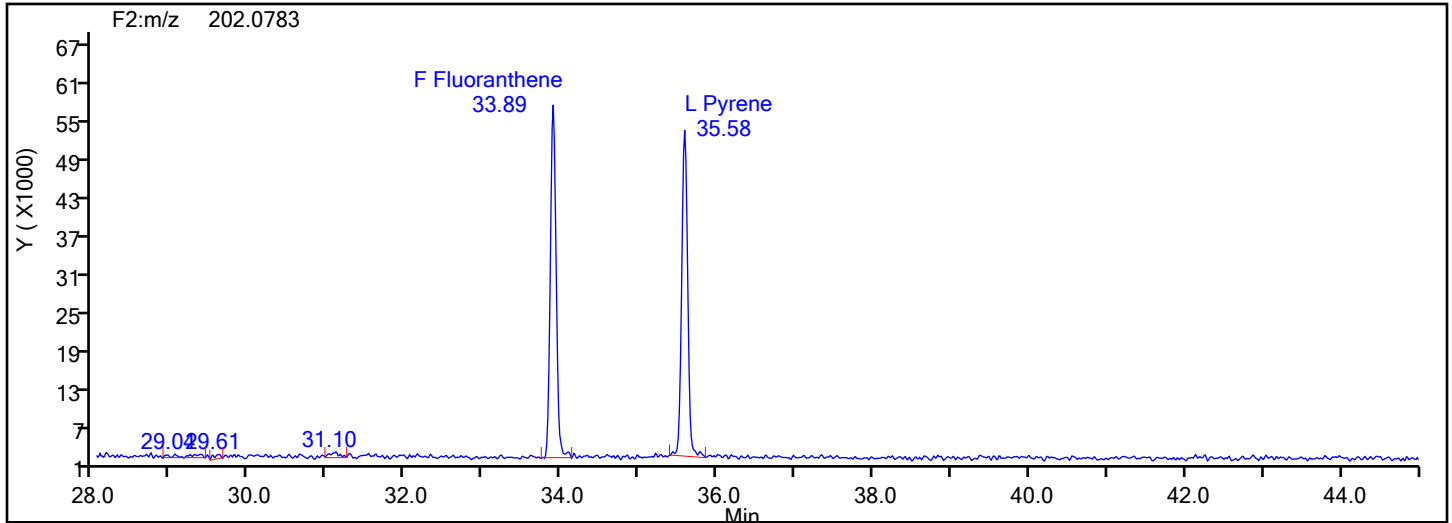


Anthracin-d10 Standards

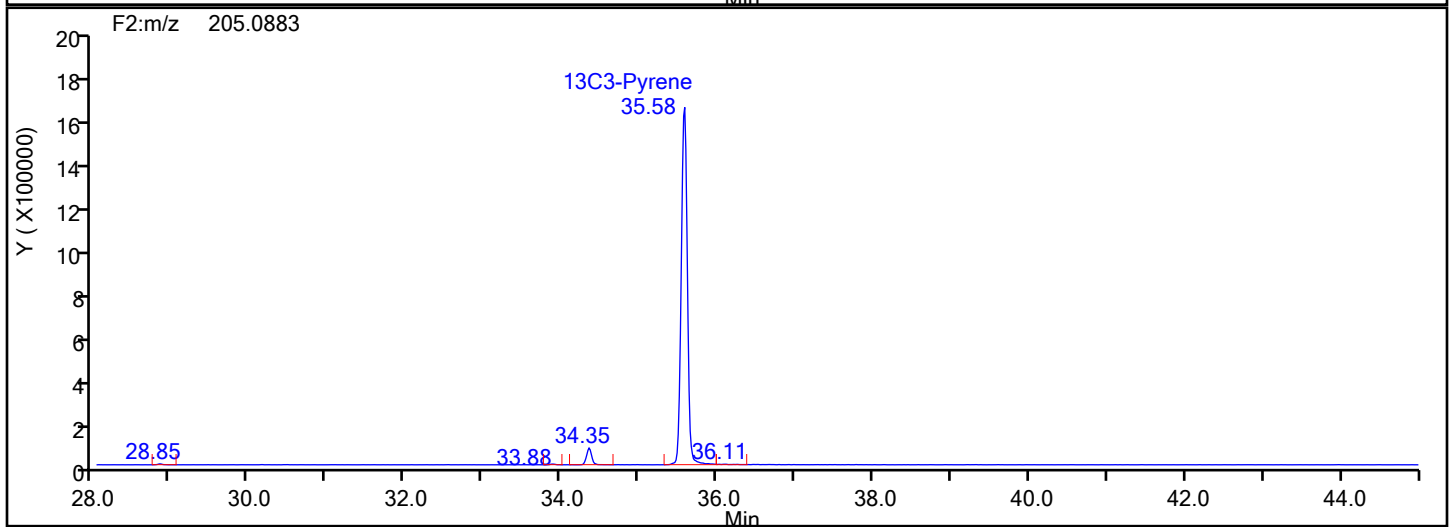
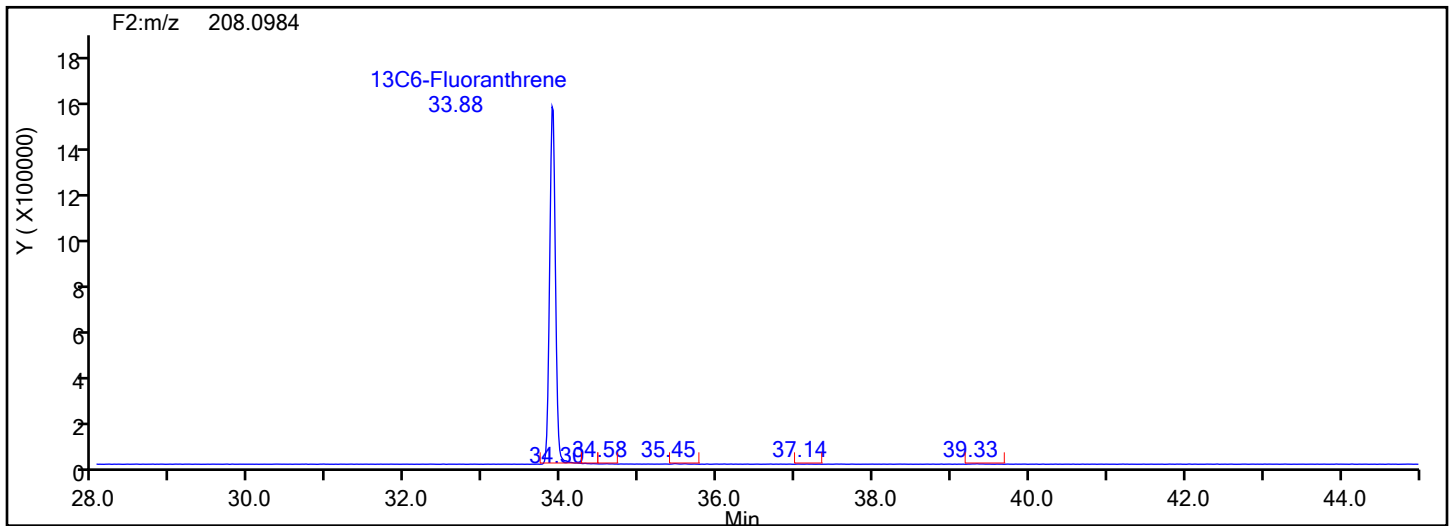


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Fluoranthene



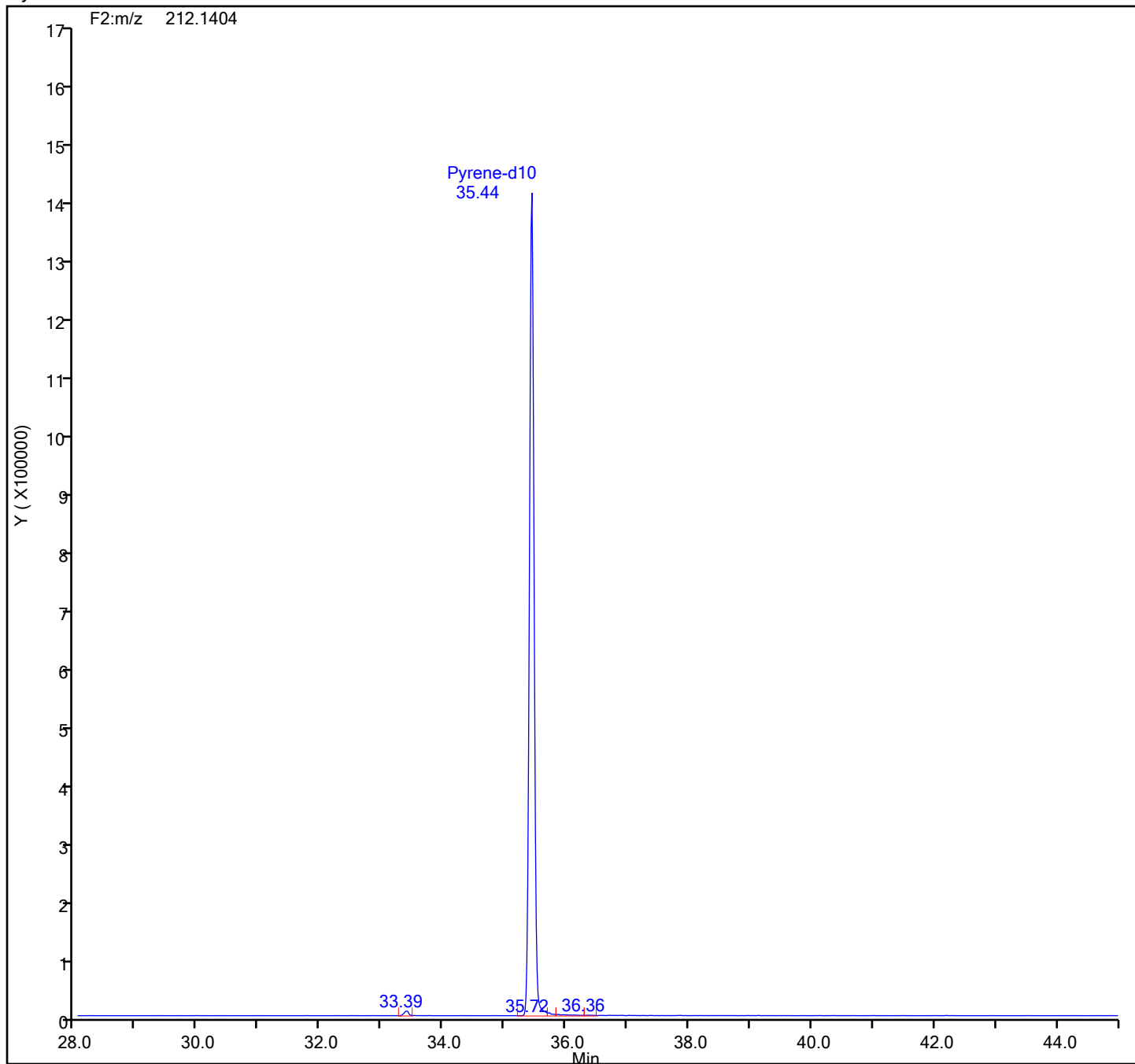
Fluoranthene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

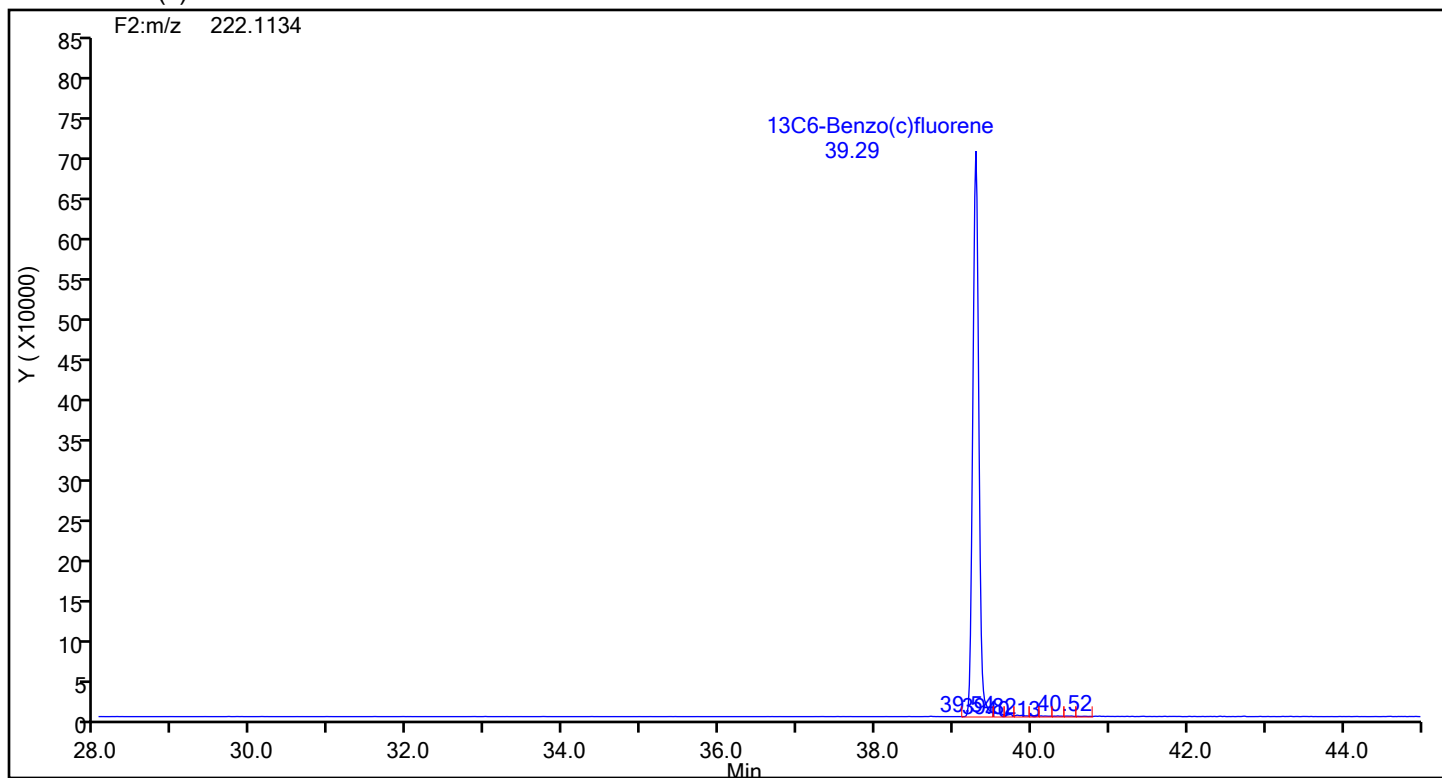
Pyrene-d10 Standards



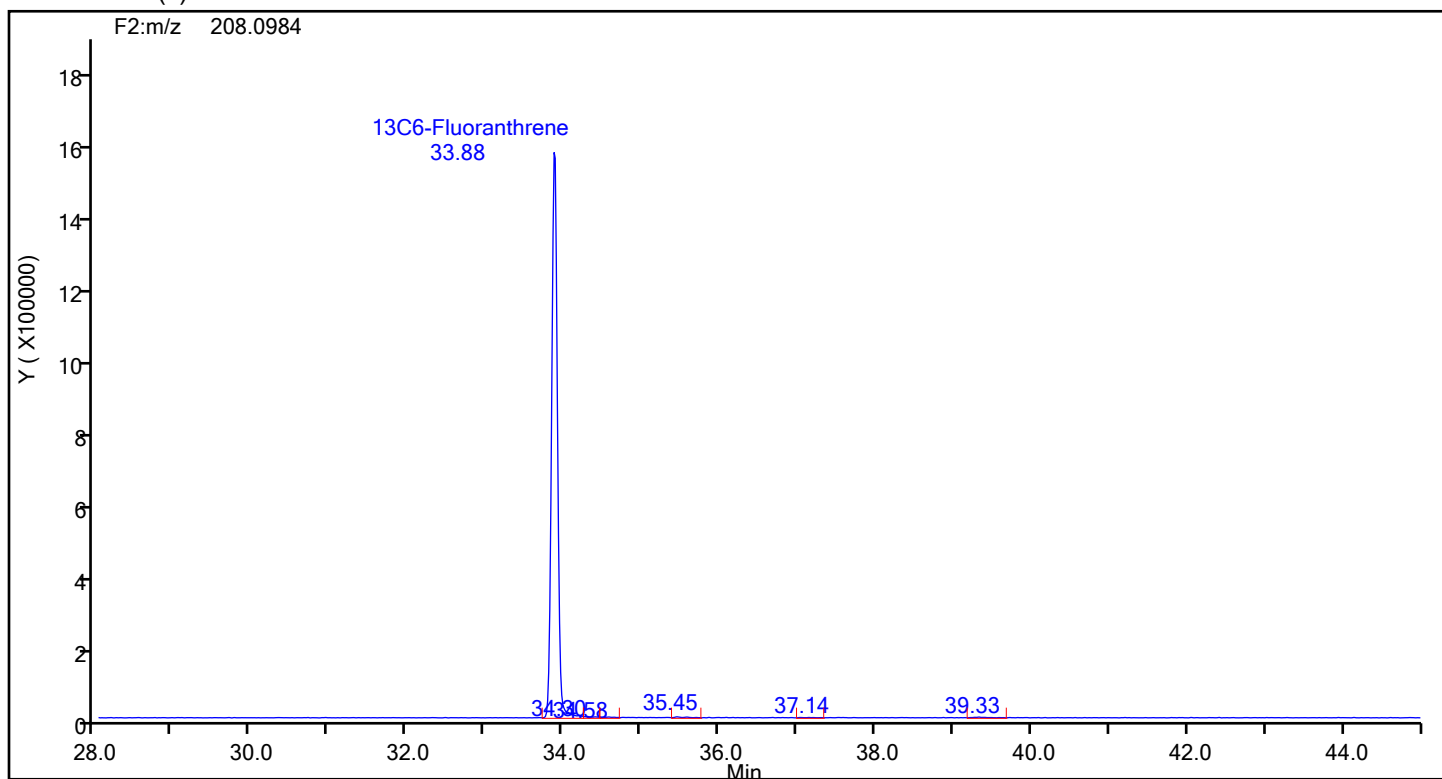
Eurofins Knoxville

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13C6-Benzo(c)fluorene



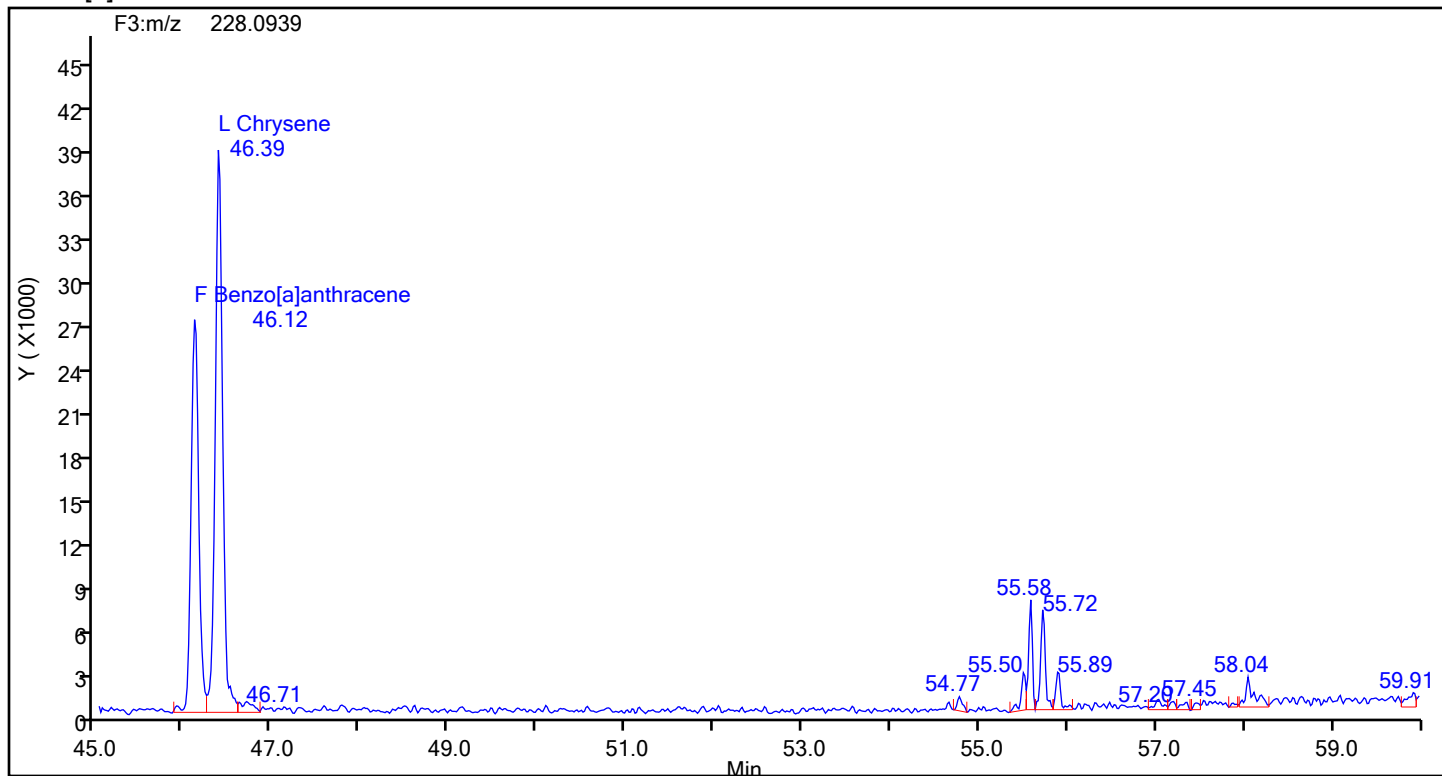
13C6-Benzo(c)fluorene Standards



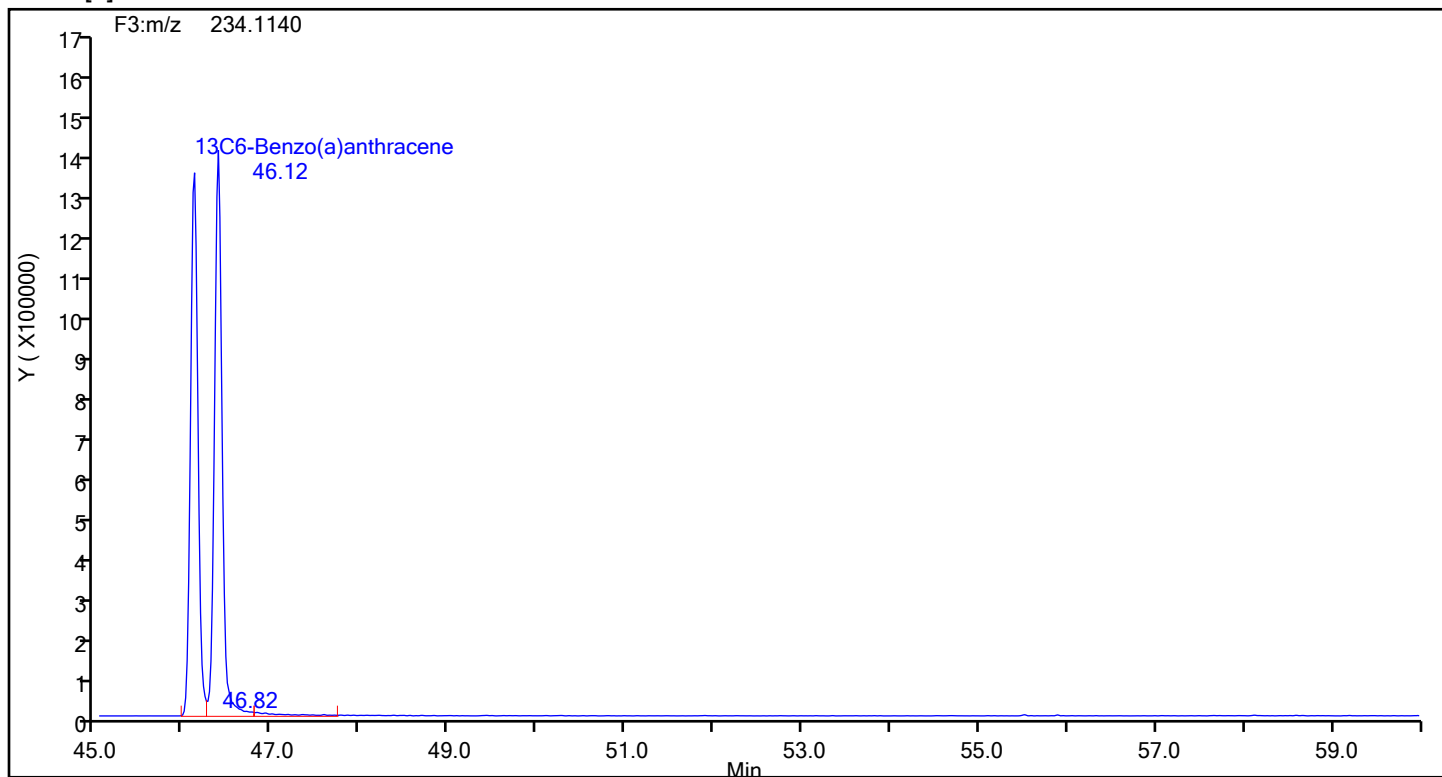
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Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



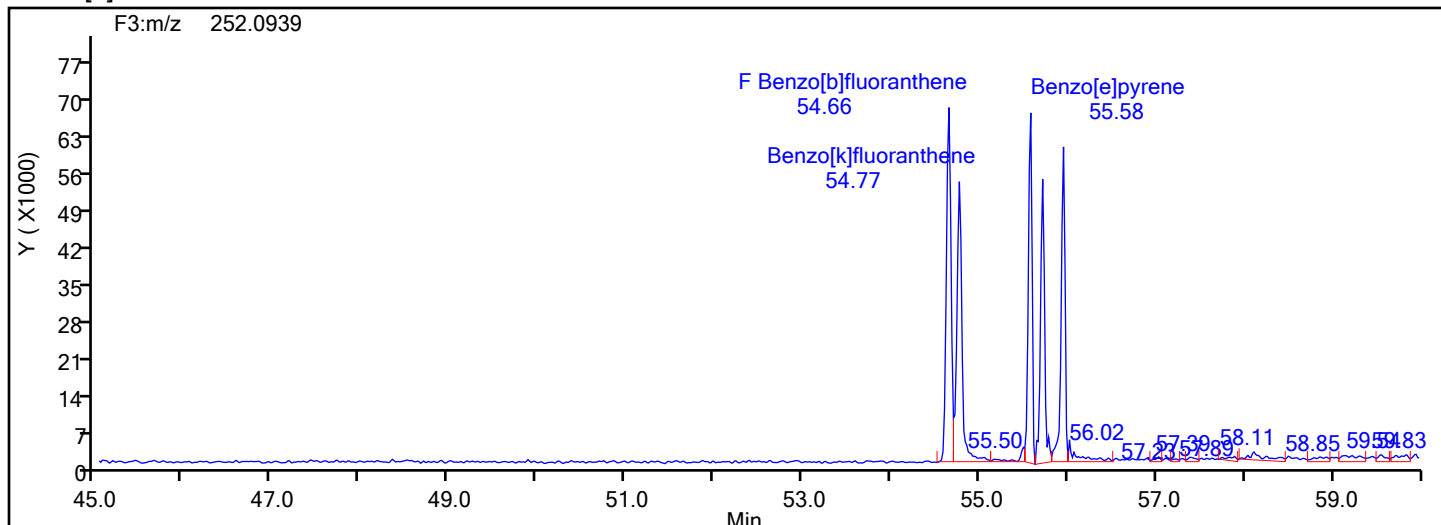
Benzo[a]anthracene Standards



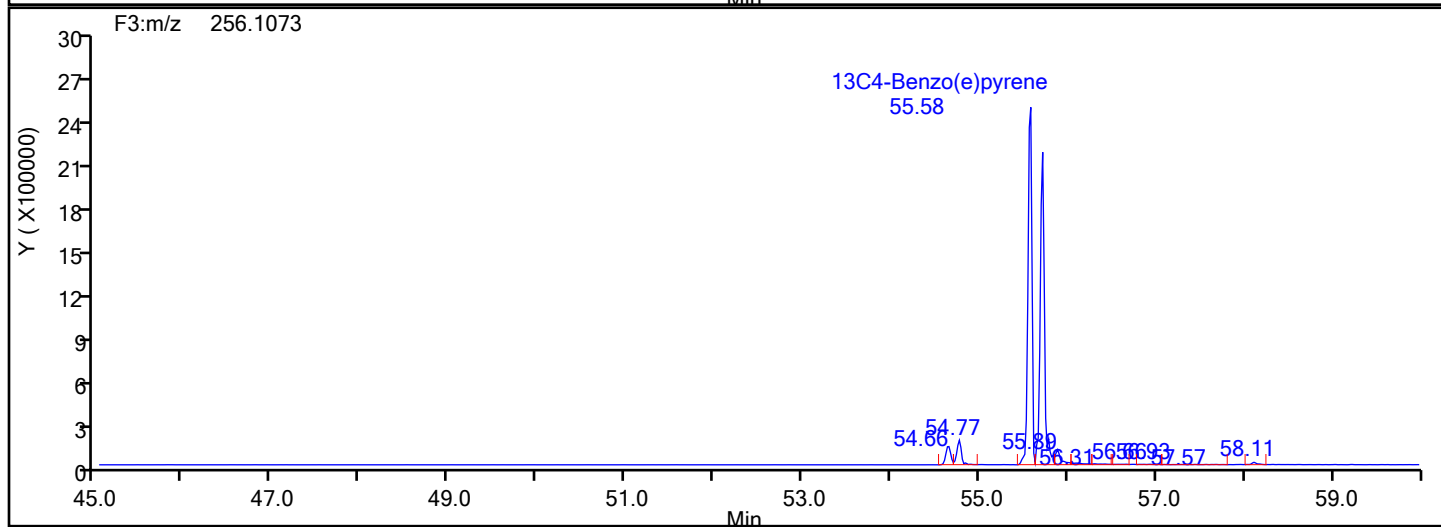
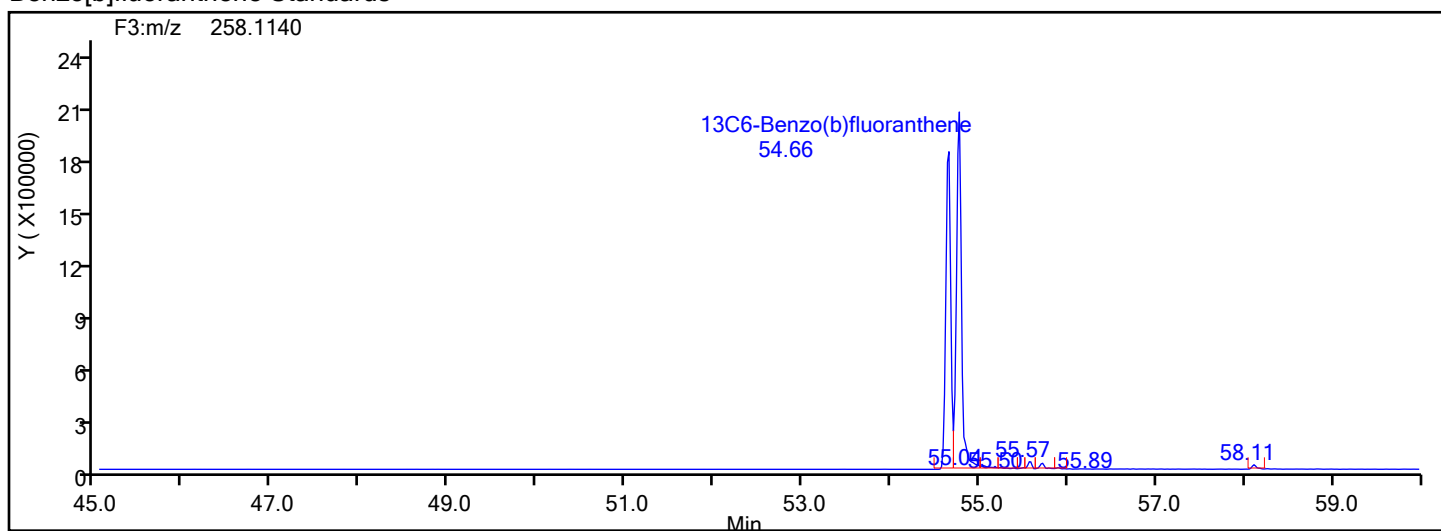
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



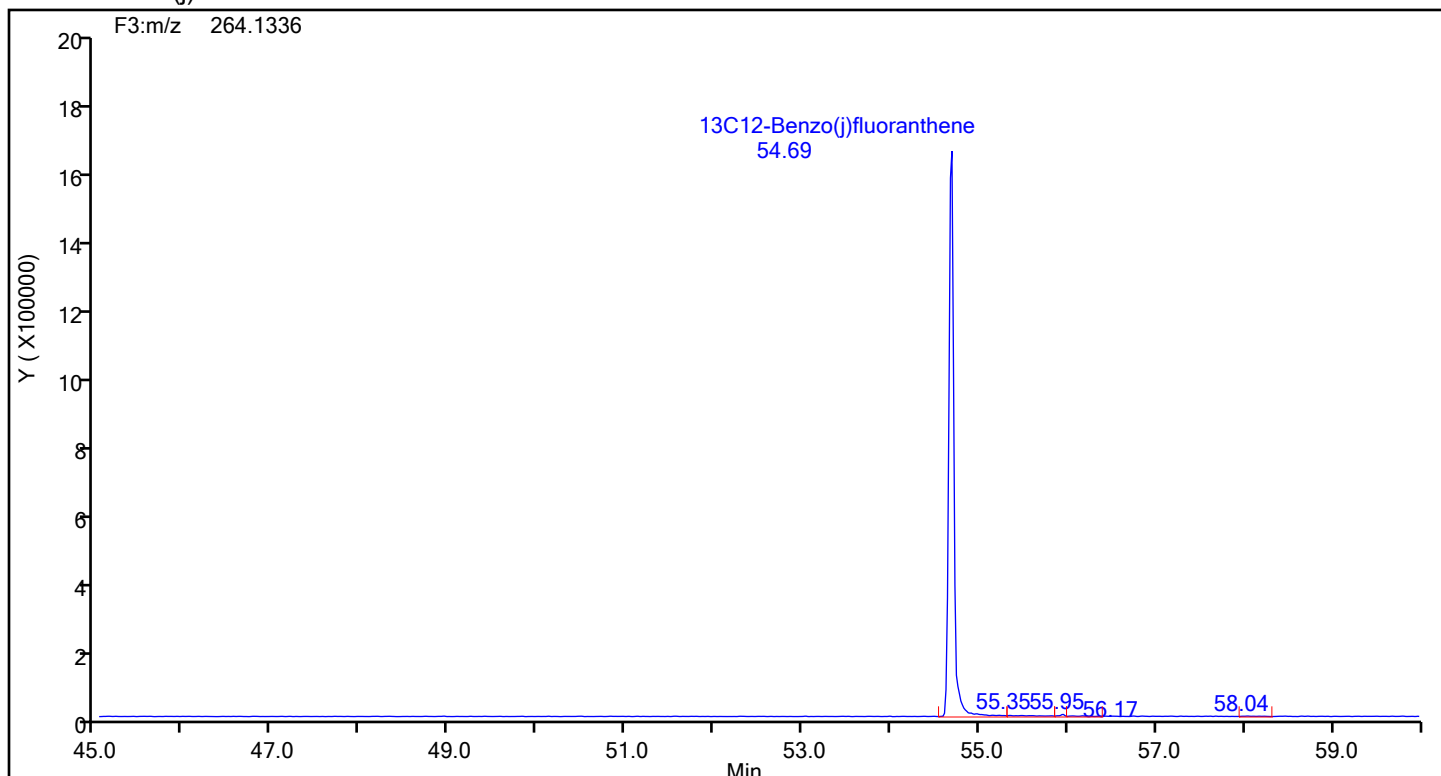
Benzo[b]fluoranthene Standards



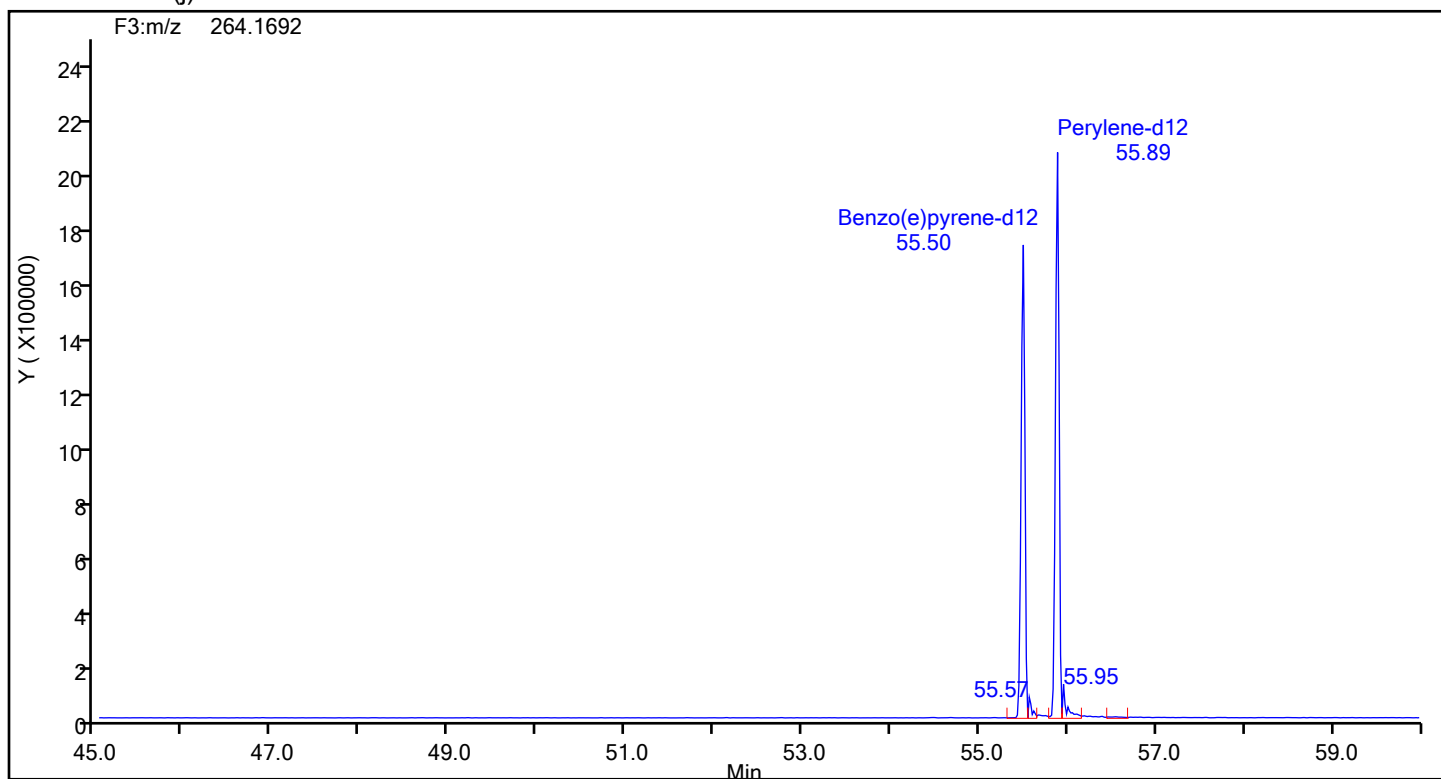
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



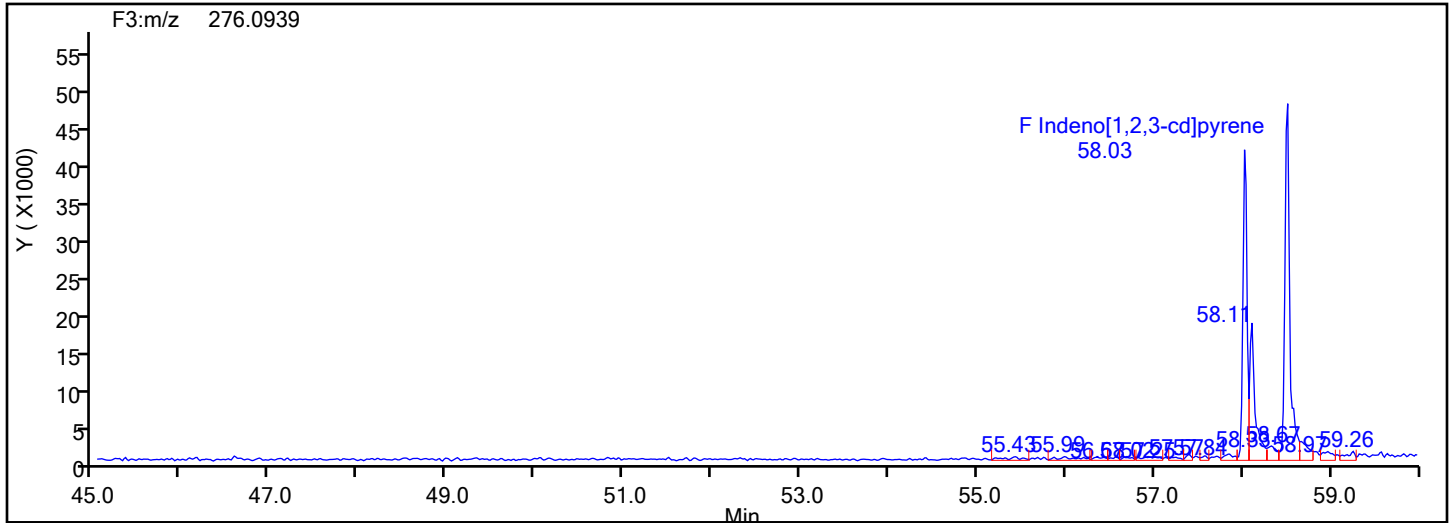
13C12-Benzo(j)fluoranthene Standards



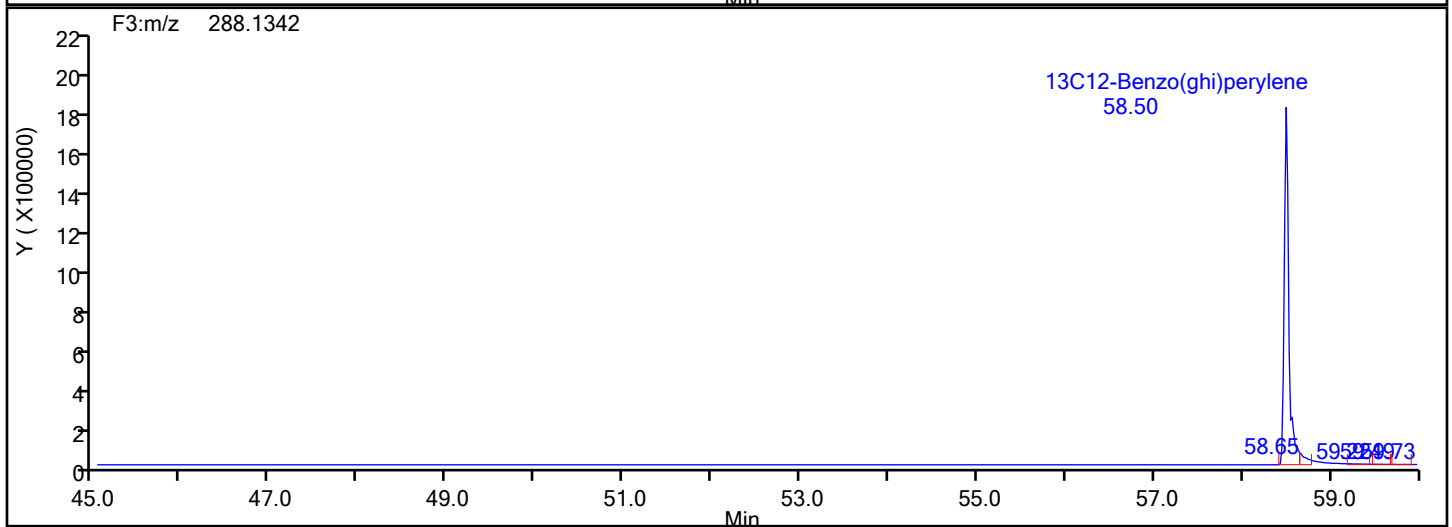
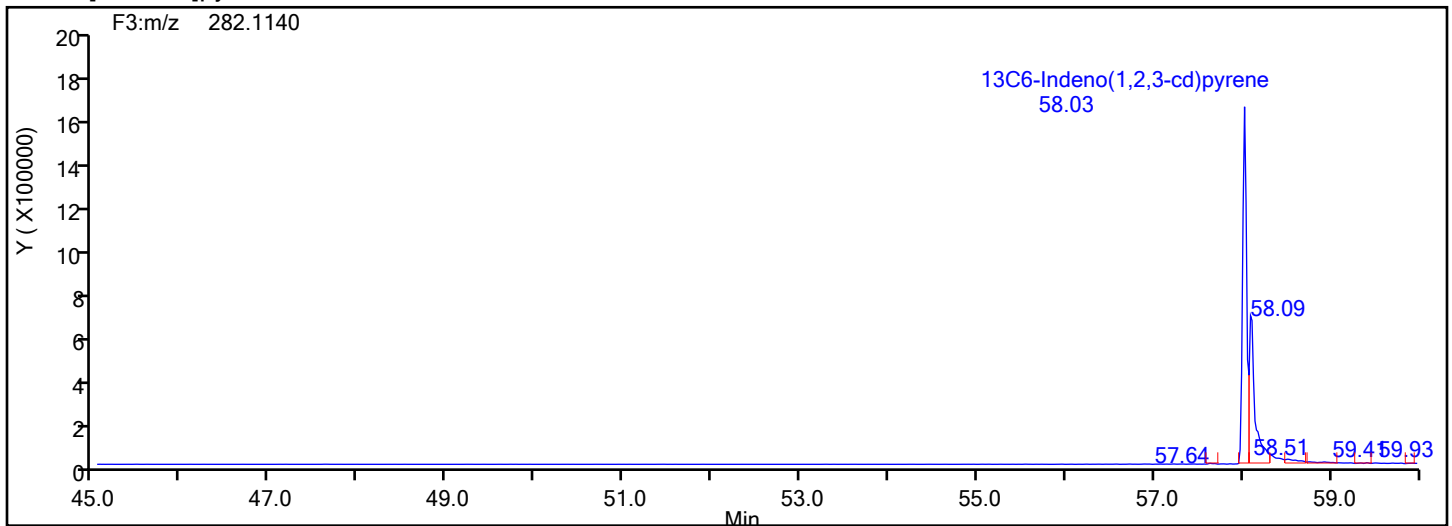
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Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

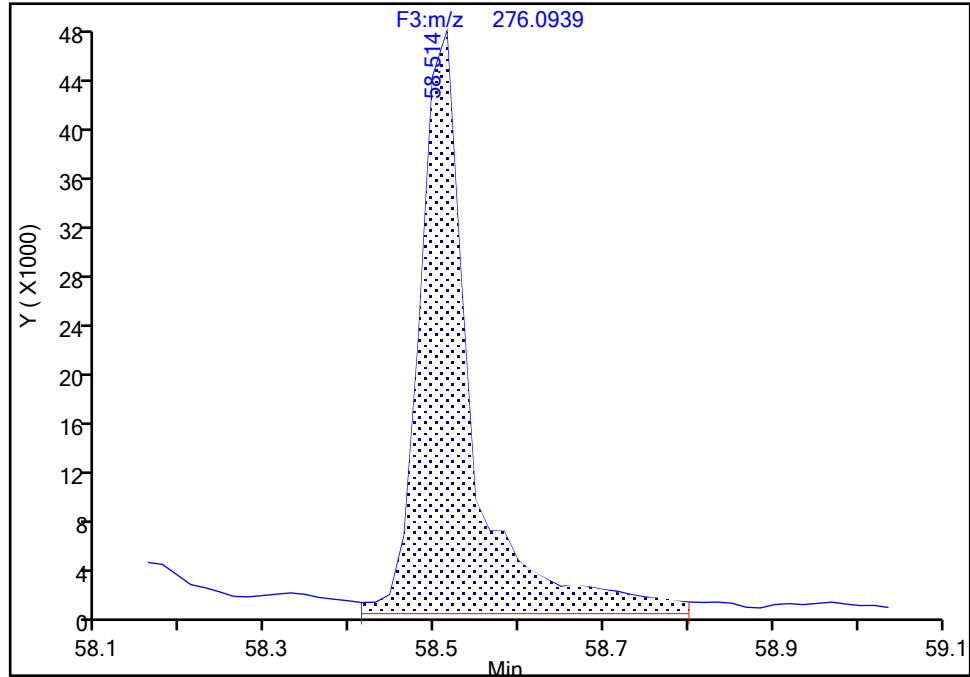
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

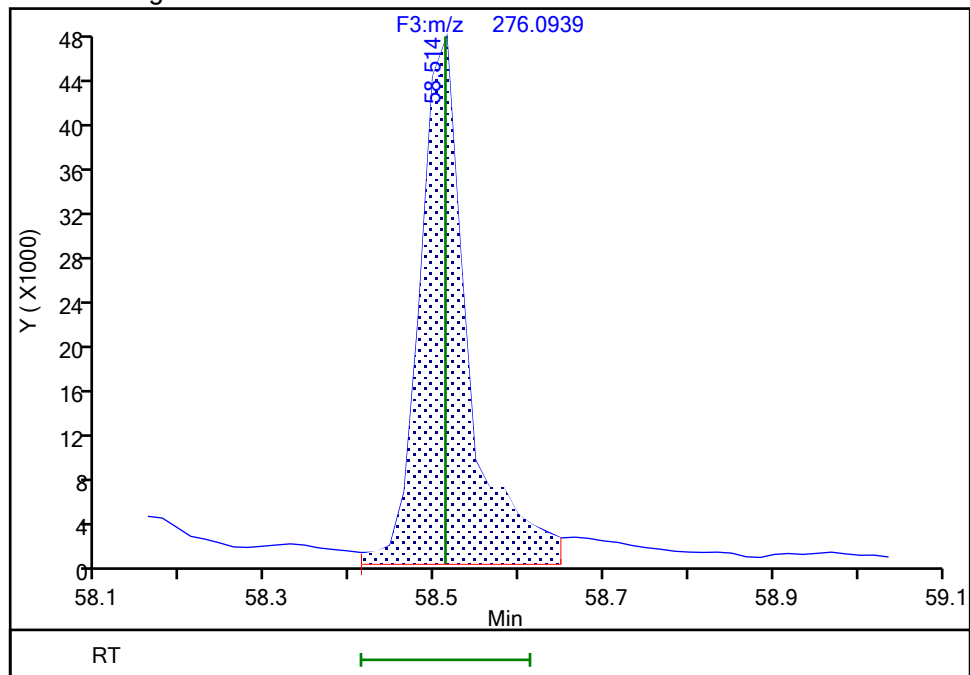
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Amount: 2.016742
Amount Units: pg/ul

Processing Integration Results



RT: 58.51
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

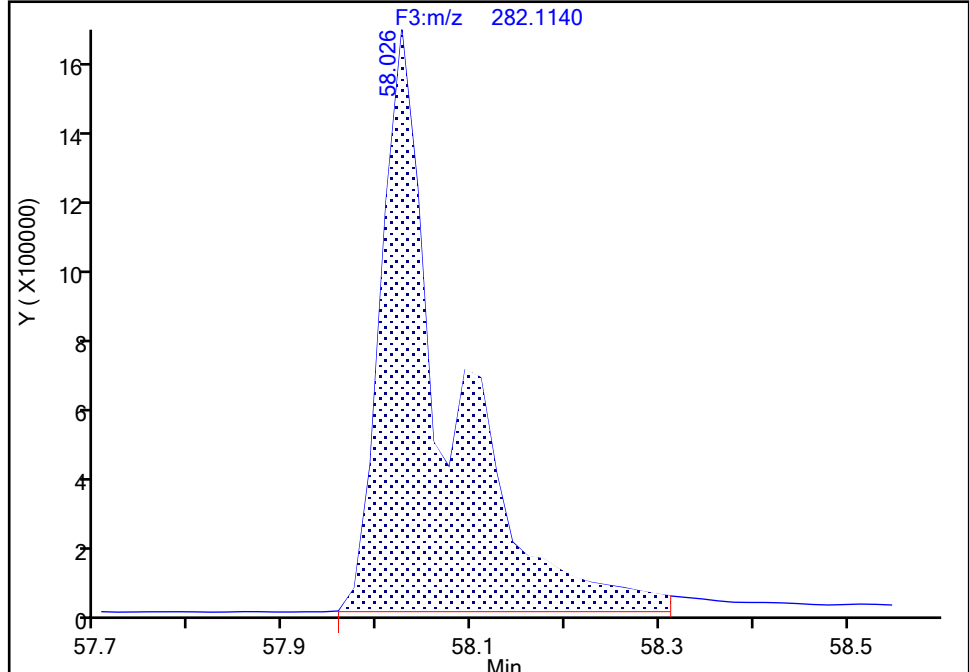
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Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

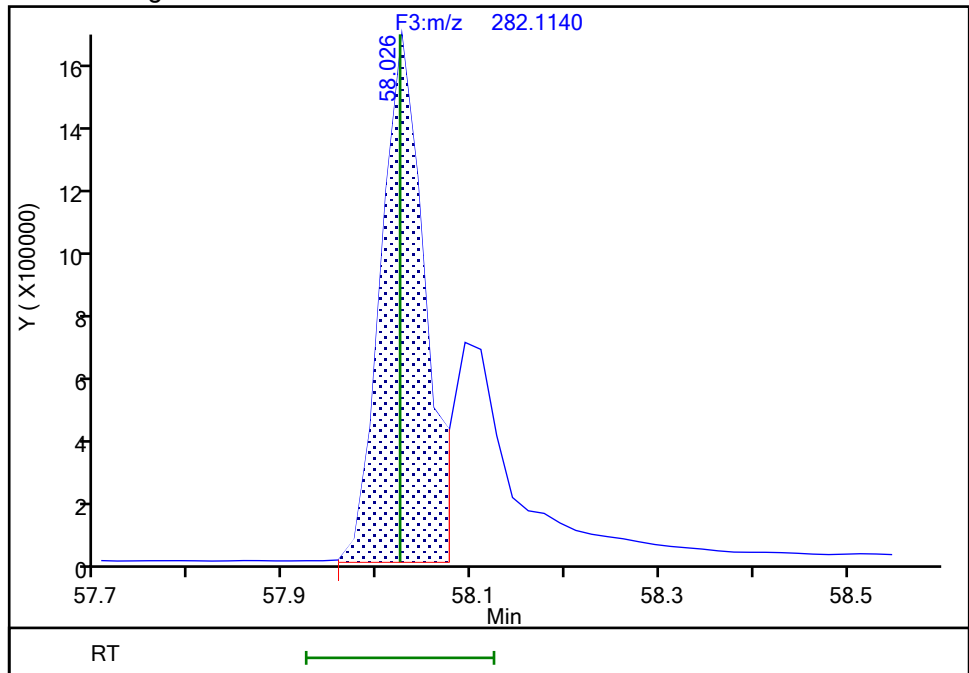
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Processing Integration Results



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Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:48:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

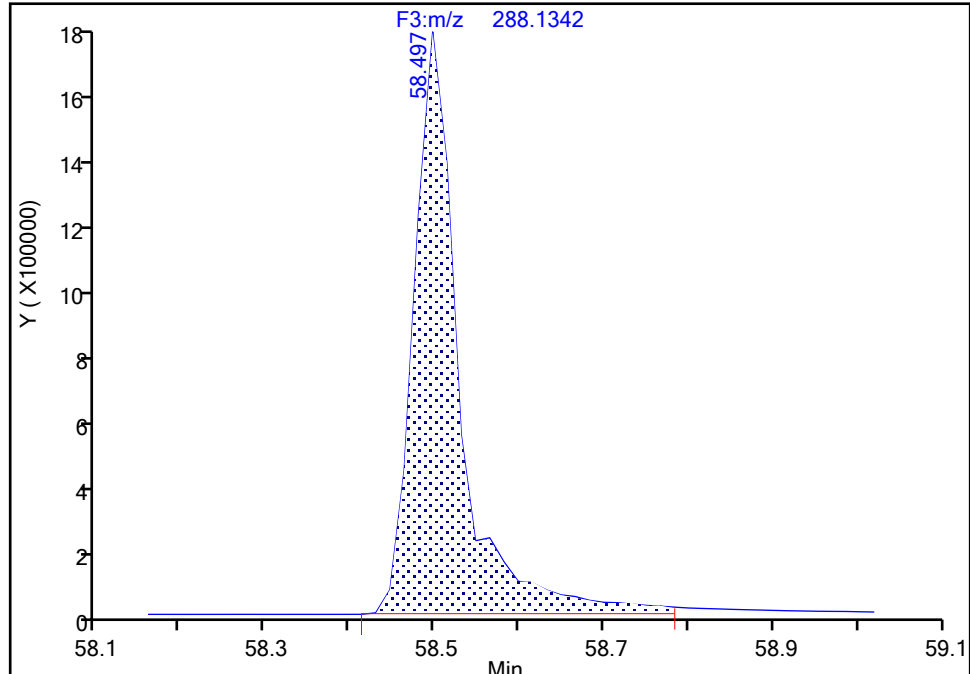
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

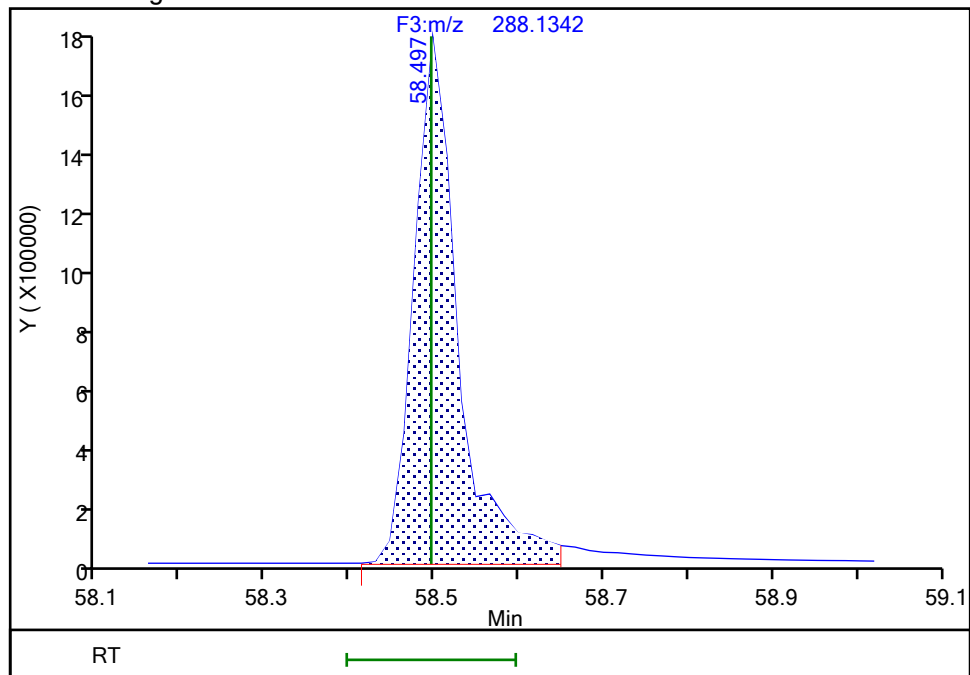
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Processing Integration Results



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Manual Integration Results



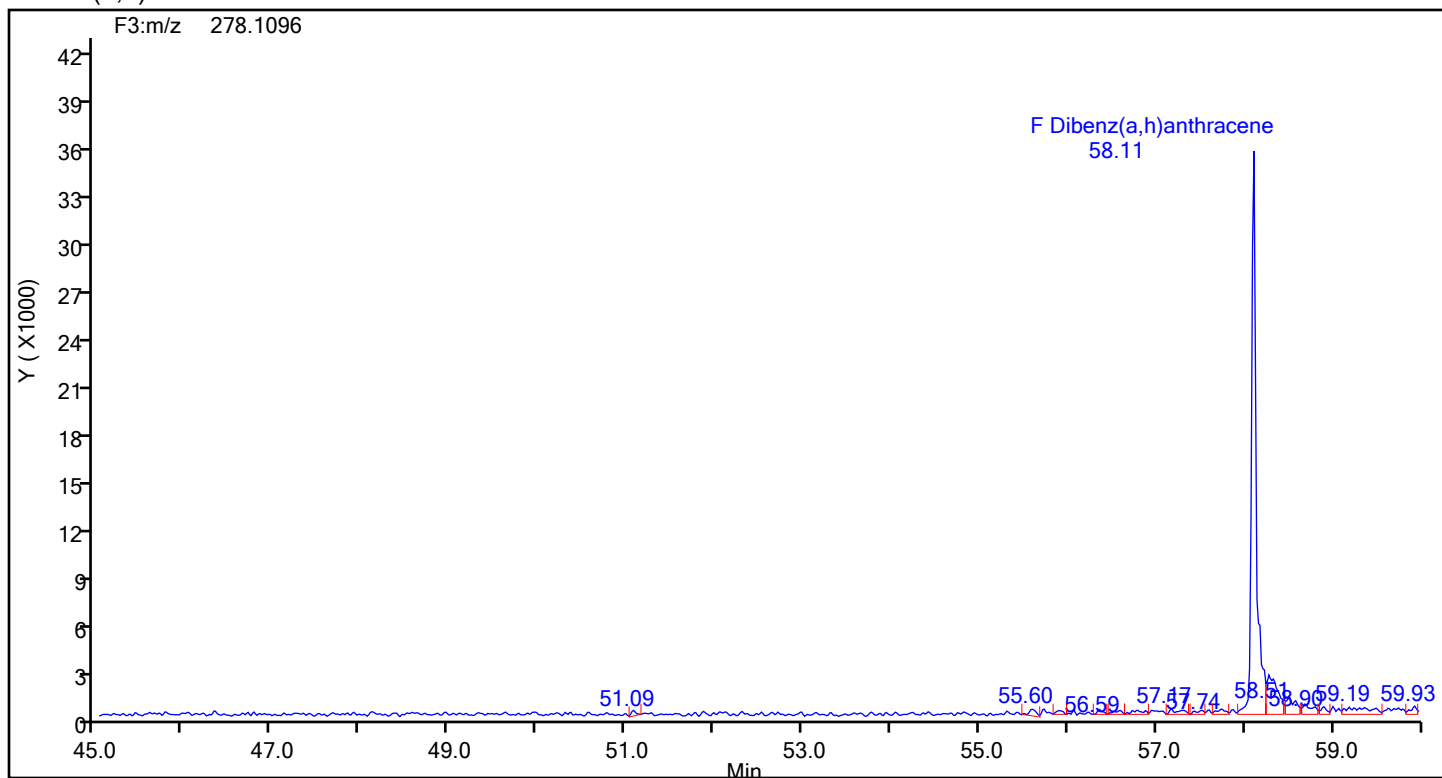
Reviewer: F9EE, 19-Jun-2024 18:49:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

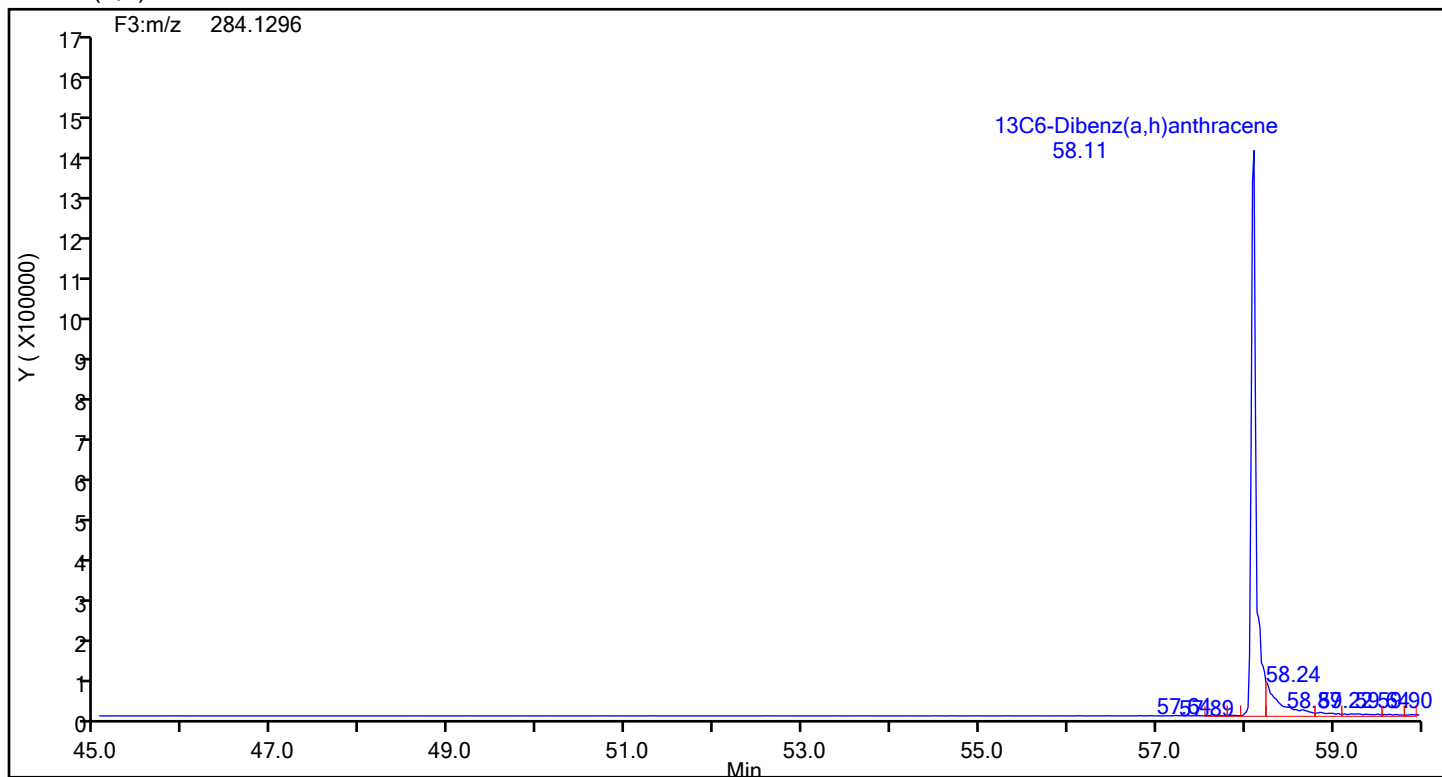
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

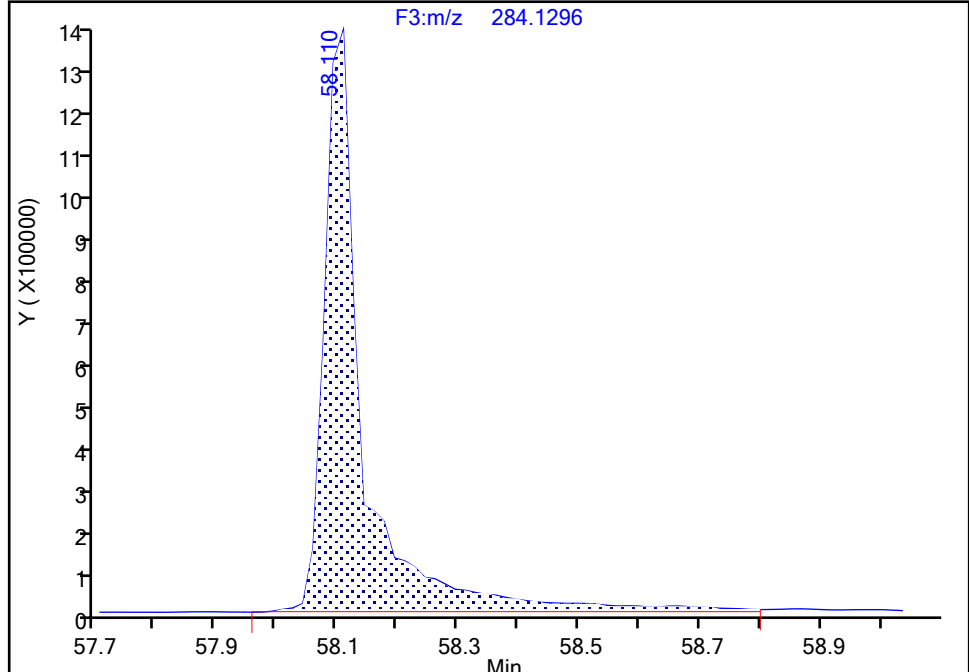
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Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

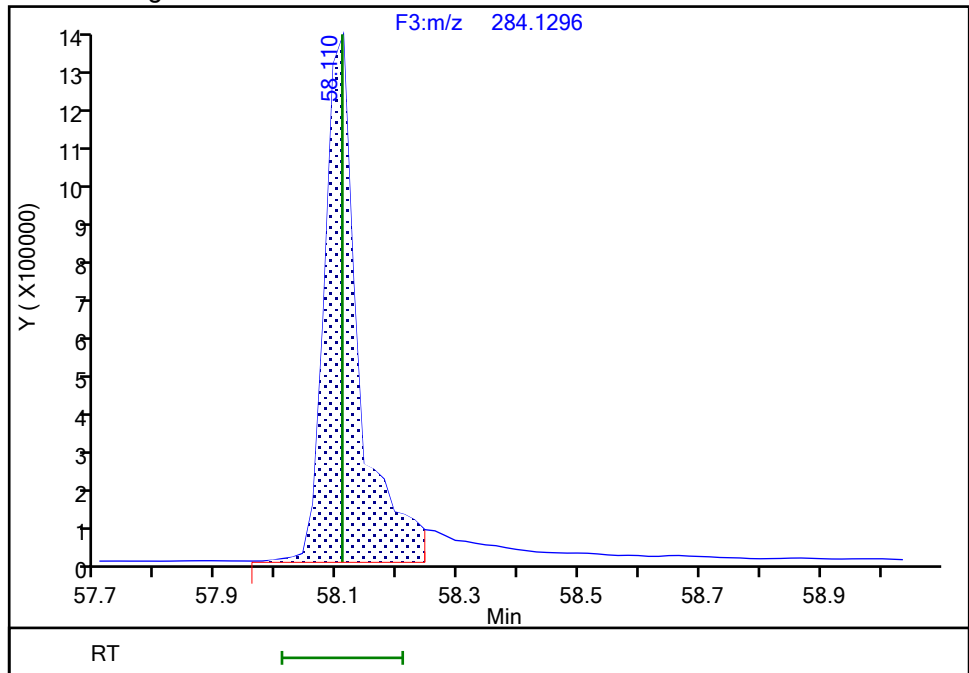
RT: 58.11
Area: 6236111
Amount: 110.5300
Amount Units: pg/ul

Processing Integration Results



RT: 58.11
Area: 5414078
Amount: 102.0351
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:02 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10437430		3.3746	101.6	101.6	0.006795	0.006795	102	
Naphthalene	11:34	1556415		1.2893	11.6	11.6	0.0248	0.0248	289	
D 13C6-2-Methylnaphthalene	13:52	4691404		1.6031	96.1	96.1	0.000298	0.000298	96.10	
2-Methylnaphthalene	13:53	659861		1.2786	11.0	11.0	0.0262	0.0262	275	
D 13C6-Acenaphthylene	16:45	4897592		1.6520	97.4	97.4	0.000405	0.000405	97.35	
Acenaphthylene	16:45	269411		2.3661	3.830	3.830	0.0191	0.0191	95.74	
* Acenaphthene-d10	17:20	3045309		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2973262		0.9792	99.7	99.7	0.002634	0.002634	99.71	
Acenaphthene	17:27	257797		1.2697	6.829	6.829	0.0271	0.0271	171	
D 13C6-Fluorene	19:45	2635457		0.8898	97.3	97.3	0.000537	0.000537	97.26	
Fluorene	19:45	181920		1.2532	5.508	5.508	0.0246	0.0246	138	
D 13C6-Phenanthrene	25:08	3834191		0.5724	94.8	94.8	0.004649	0.004649	94.83	
Phenanthrene	25:08	238313		1.1044	5.628	5.628	0.0353	0.0353	141	
\$ Anthracin-d10	25:21	2851175		0.4257	94.8	94.8	0.000357	0.000357	94.82	
D 13C6-Anthracene	25:28	3047129		0.4523	95.4	95.4	0.005883	0.005883	95.37	
Anthracene	25:28	160718		1.3586	3.882	3.882	0.0379	0.0379	97.06	
D 13C6-Fluoranthrene	33:54	8154780		1.1994	96.3	96.3	0.0216	0.0216	96.26	
Fluoranthene	33:54	396095		1.1513	4.219	4.219	0.0179	0.0179	105	
* Pyrene-d10	35:27	7063080		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	9131545		1.3512	95.7	95.7	0.0146	0.0146	95.68	
Pyrene	35:35	427111		1.0652	4.391	4.391	0.0176	0.0176	110	
\$ 13C6-Benzo(c)fluorene	39:18	3665129		0.5136	101.0	101.0	0.005478	0.005478	101	
D 13C6-Benzo(a)anthracene	46:07	7504068		1.5189	100.3	100.3	0.0152	0.0152	100	
Benzo[a]anthracene	46:07	282836		0.9739	3.870	3.870	0.0144	0.0144	96.76	
D 13C6-Chrysene	46:24	7844204		1.6287	97.7	97.7	0.0142	0.0142	97.75	
Chrysene	46:25	347139		0.9815	4.509	4.509	0.0145	0.0145	113	
D 13C6-Benzo(b)fluoranthene	54:40	6808556		1.4621	94.5	94.5	0.001125	0.001125	94.51	
Benzo[b]fluoranthene	54:40	379738		1.1249	4.958	4.958	0.008828	0.008828	124	
\$ 13C12-Benzo(j)fluoranthene	54:42	6337903		1.3558	94.9	94.9	0.0173	0.0173	94.87	
D 13C6-Benzo(k)fluoranthene	54:47	8218810		1.7507	95.3	95.3	0.000940	0.000940	95.28	
Benzo[k]fluoranthene	54:47	351417		1.1271	3.794	3.794	0.007793	0.007793	94.84	
* Benzo(e)pyrene-d12	55:30	4927202		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7853527		1.6368	97.4	97.4	0.0105	0.0105	97.38	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	316746		1.0013	4.028	4.028	0.006974	0.006974	101	
Benzo[a]pyrene	55:44	318019		1.1130	3.956	3.956	0.007428	0.007428	98.90	
D 13C4-Benzo(a)pyrene	55:44	7222186		1.5508	94.5	94.5	0.0111	0.0111	94.52	
D Perylene-d12	55:54	5628212		1.1917	95.9	95.9	0.0162	0.0162	95.85	
Perylene	55:58	330090		1.4307	4.099	4.099	0.006406	0.006406	102	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	4630053		1.0218	92.0	92.0	0.009539	0.009539	91.96	
Indeno[1,2,3-cd]pyrene	58:03	203445		1.1249	3.906	3.906	0.009054	0.009054	97.65	
D 13C6-Dibenz(a,h)anthracene	58:07	4776504		1.0553	91.9	91.9	0.005196	0.005196	91.86	M
Dibenz(a,h)anthracene	58:07	210948		1.1314	3.904	3.904	0.007161	0.007161	97.59	M
D 13C12-Benzo(ghi)perylene	58:30	5830946		1.2749	92.8	92.8	0.003106	0.003106	92.83	M
Benzo[g,h,i]perylene	58:31	301308		1.2838	4.025	4.025	0.007142	0.007142	101	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS3_00003

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.666	10437430	3484116	96	240	36293		
Naphthalene											
128.0626	11:34	11:34	0	1.001	1556415	509599	446	1115	1143		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4691404	2108259	2	5	1054130		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	659861	294187	283	707	1040		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.966	4897592	1726905	3	7	575635		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	269411	95497	187	467	511		
Acenaphthene-d10											
164.1404	17:20	17:20	0		3045309	1046726	6	15	174454		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2973262	1032608	11	27	93873		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	257797	90217	142	355	635		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.139	2635457	796176	2	5	398088		
Fluorene											
166.0783	19:45	19:45	0	1.000	181920	53149	98	245	542		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3834191	902063	14	35	64433		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	238313	57984	141	352	411		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2851175	640515	1	2	640515		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	3047129	683124	14	35	48795		
Anthracene											
178.0783	25:28	25:28	0	1.000	160718	37402	141	352	265		
13C6-Fluoranthrene											
208.0984	33:54	33:54	0	0.956	8154780	1562778	136	340	11491		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	396095	78237	129	322	606		
Pyrene-d10											
212.1404	35:27	35:27	0		7063080	1315153	50	125	26303		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	9131545	1718572	104	260	16525		
Pyrene											
202.0783	35:35	35:35	0	1.000	427111	79383	129	322	615		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3665129	673027	15	37	44868		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	0	1.301	7504068	1334701	152	380	8781		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	282836	50962	75	187	679		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	7844204	1313857	152	380	8644		
Chrysene											
228.0939	46:25	46:25	0	1.000	347139	58344	75	187	778		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6808556	1812534	11	27	164776		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	379738	101987	72	180	1416		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6337903	1650721	154	385	10719		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8218810	2049415	11	27	186311		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	351417	91356	72	180	1269		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		4927202	1641398	127	317	12924		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7853527	2577674	113	282	22811		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	316746	107782	72	180	1497		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	318019	97222	72	180	1350		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7222186	2177246	113	282	19268		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5628212	1964028	127	317	15465		
Perylene											
252.0939	55:58	55:58	0	1.001	330090	107390	72	180	1492		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	4630053	1423655	64	160	22245		
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	203445	66835	58	145	1152		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	4776504	1357735	36	90	37715		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	210948	59990	44	110	1363		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	5830946	1581495	26	65	60827		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	301308	83672	58	145	1443		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS3_00003

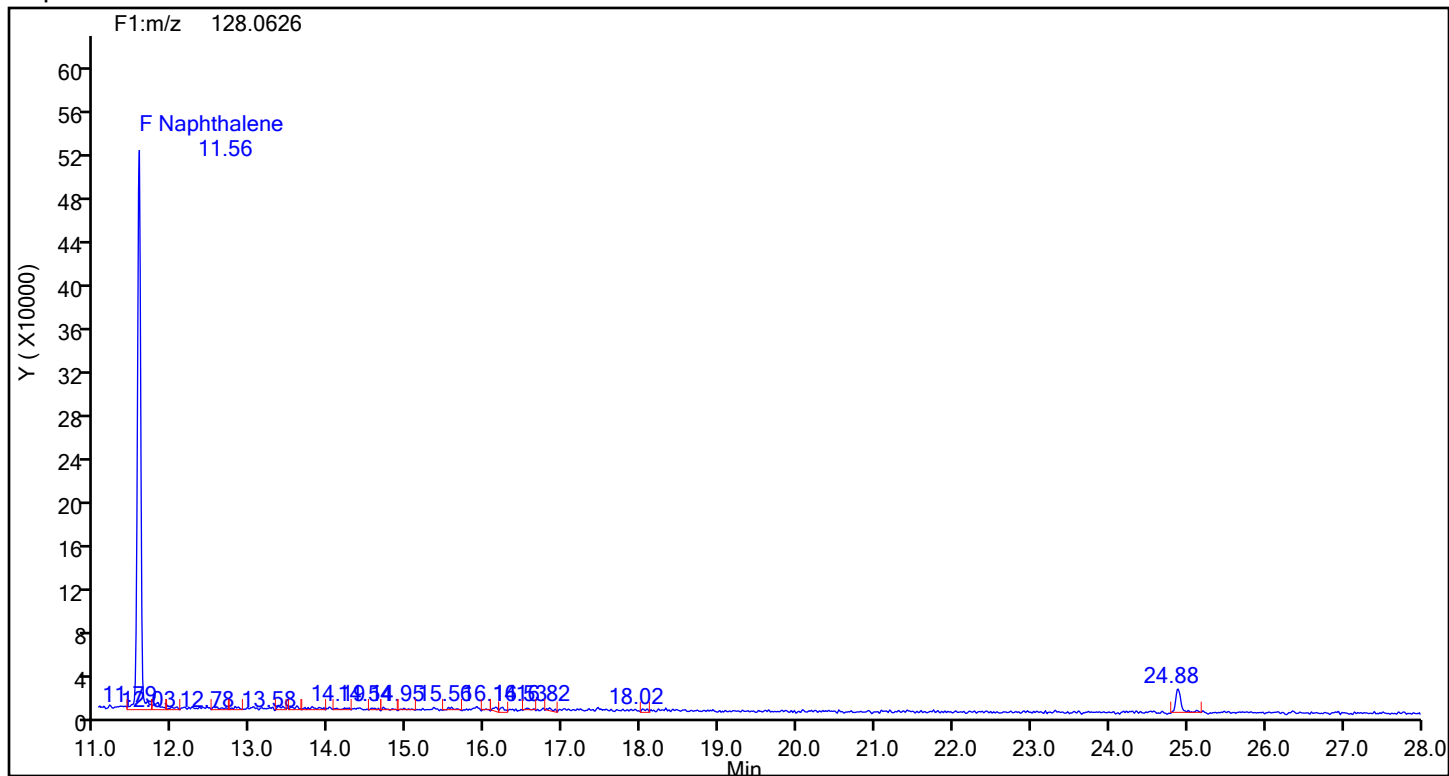
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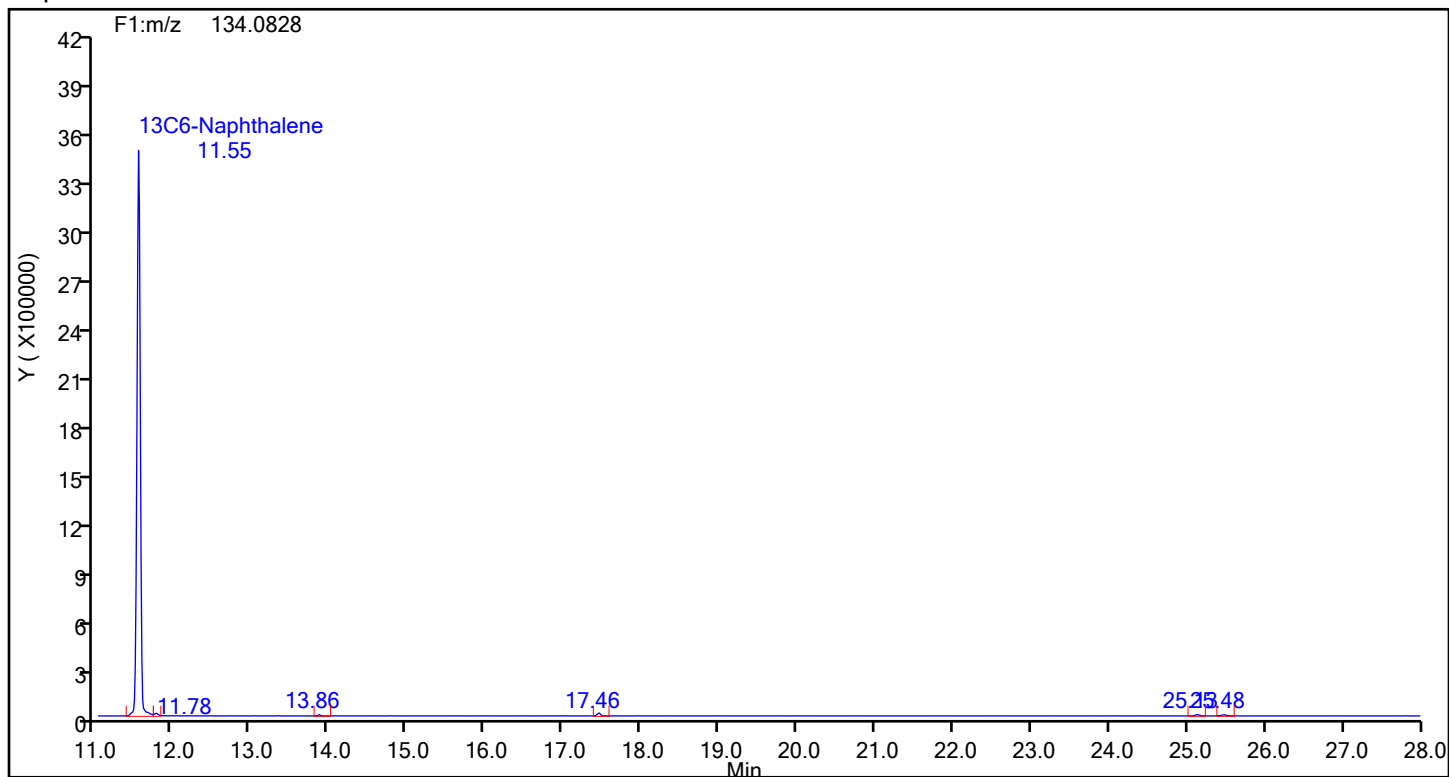
Eurofins Knoxville

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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



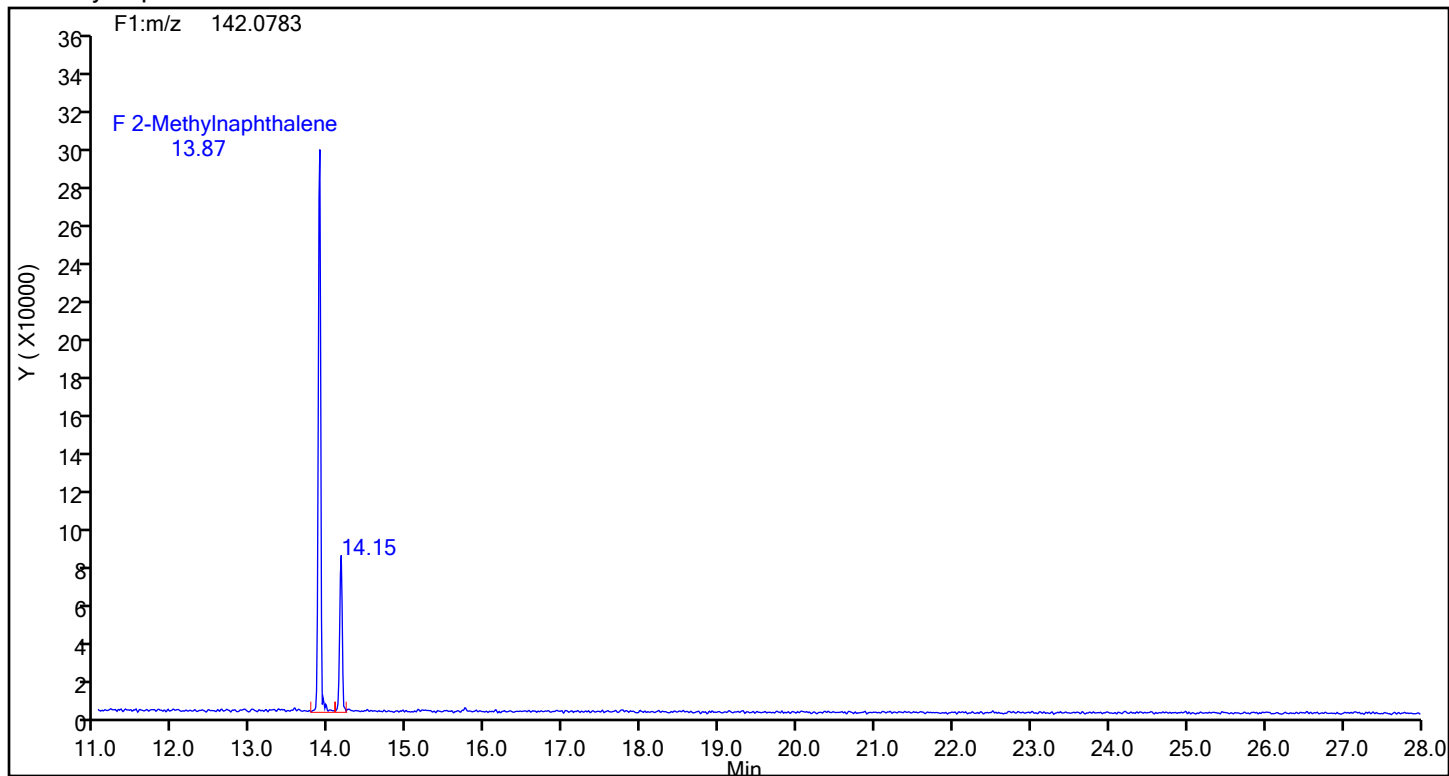
Naphthalene Standards



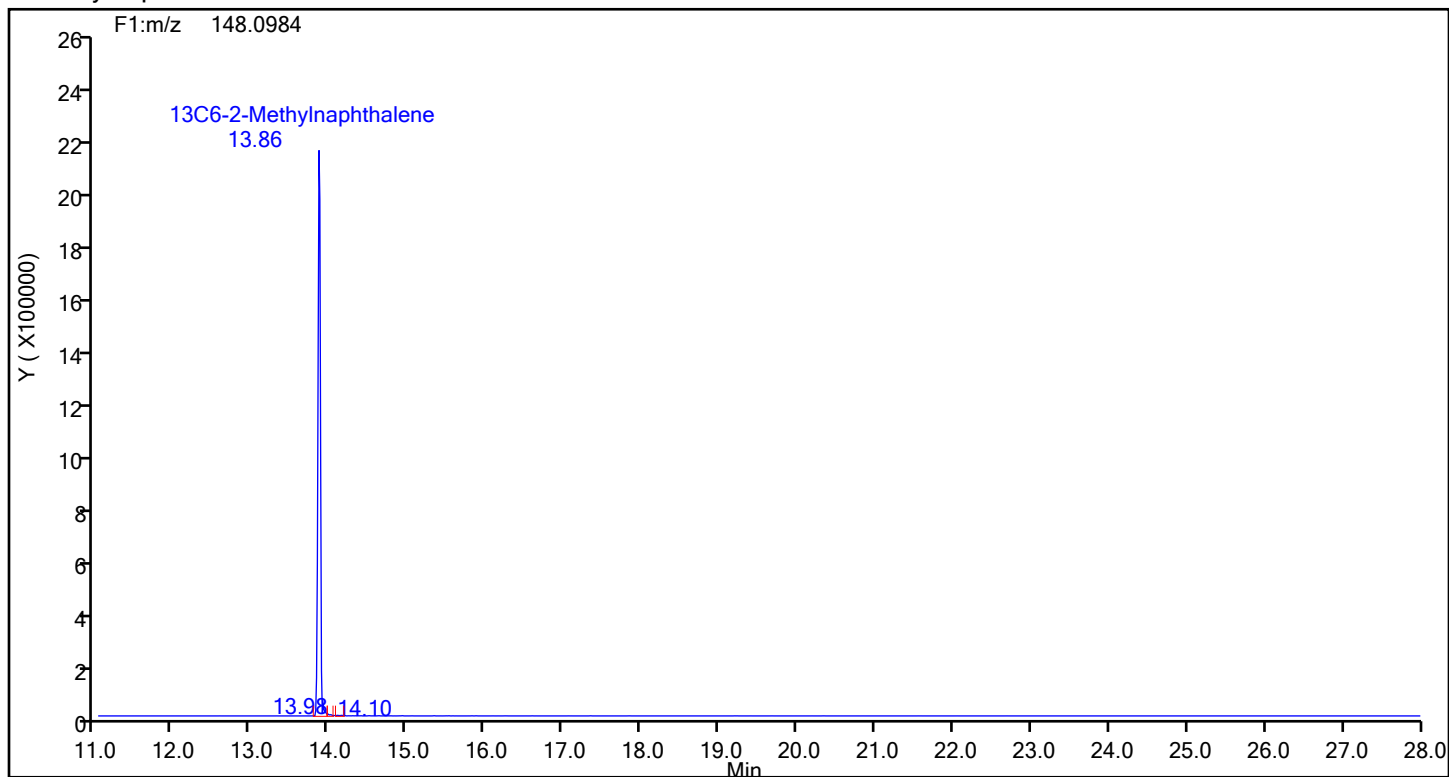
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



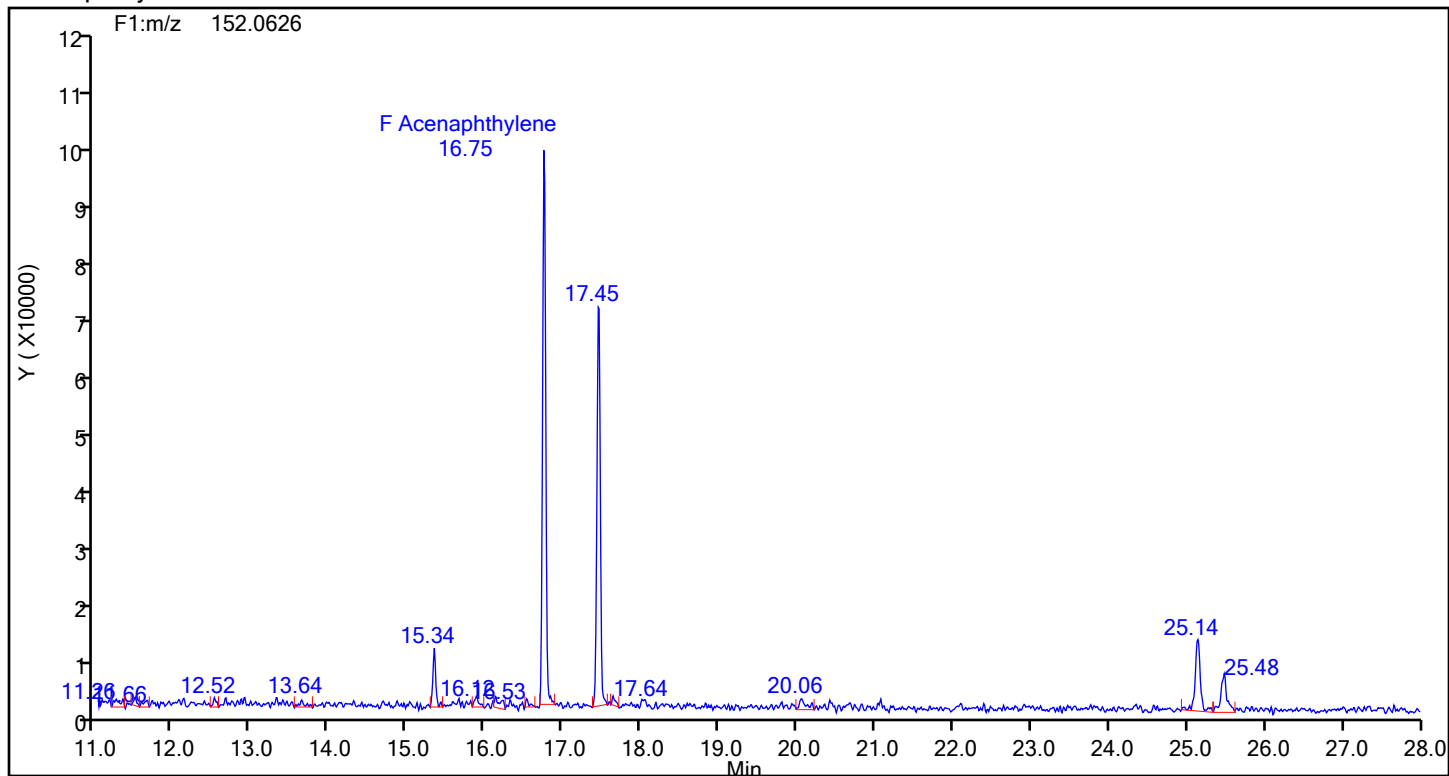
2-Methylnaphthalene Standards



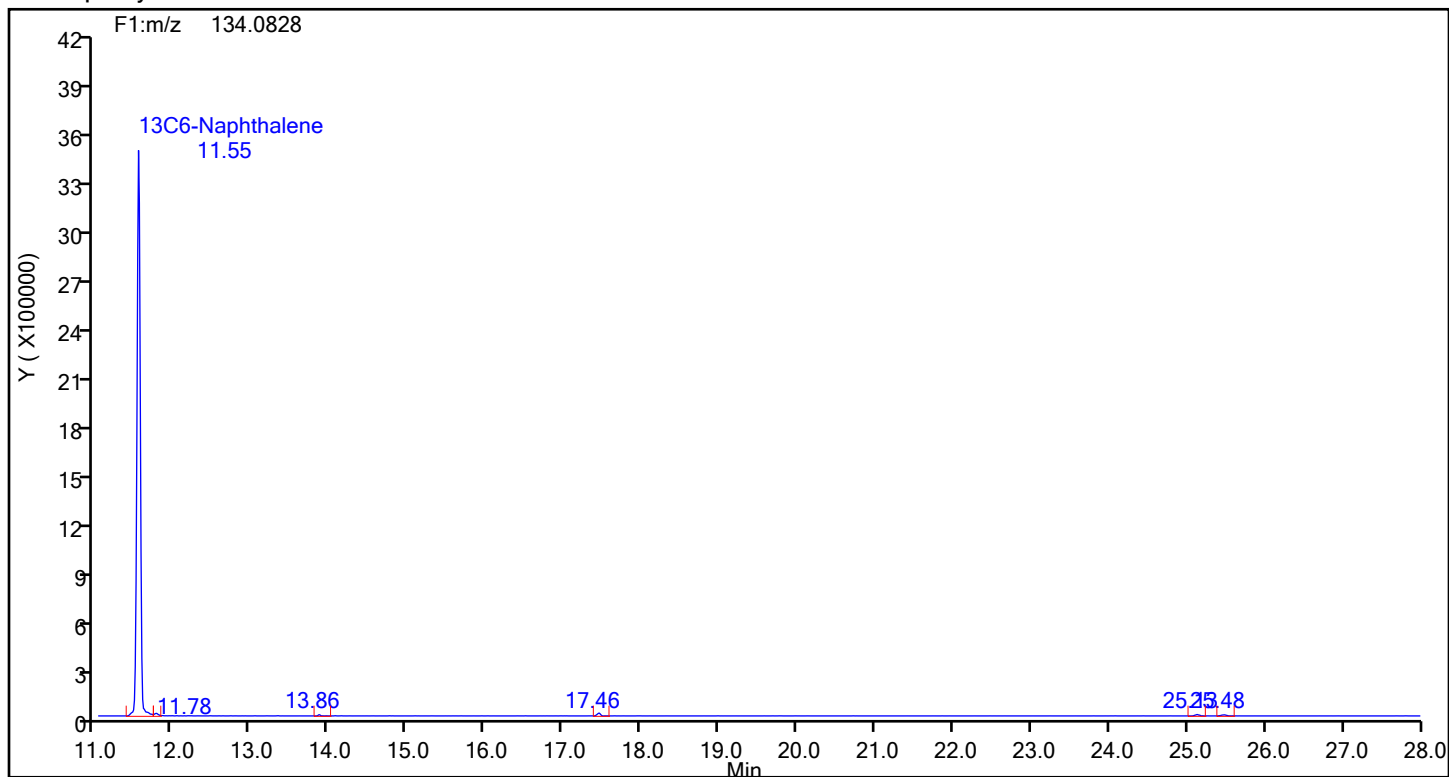
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



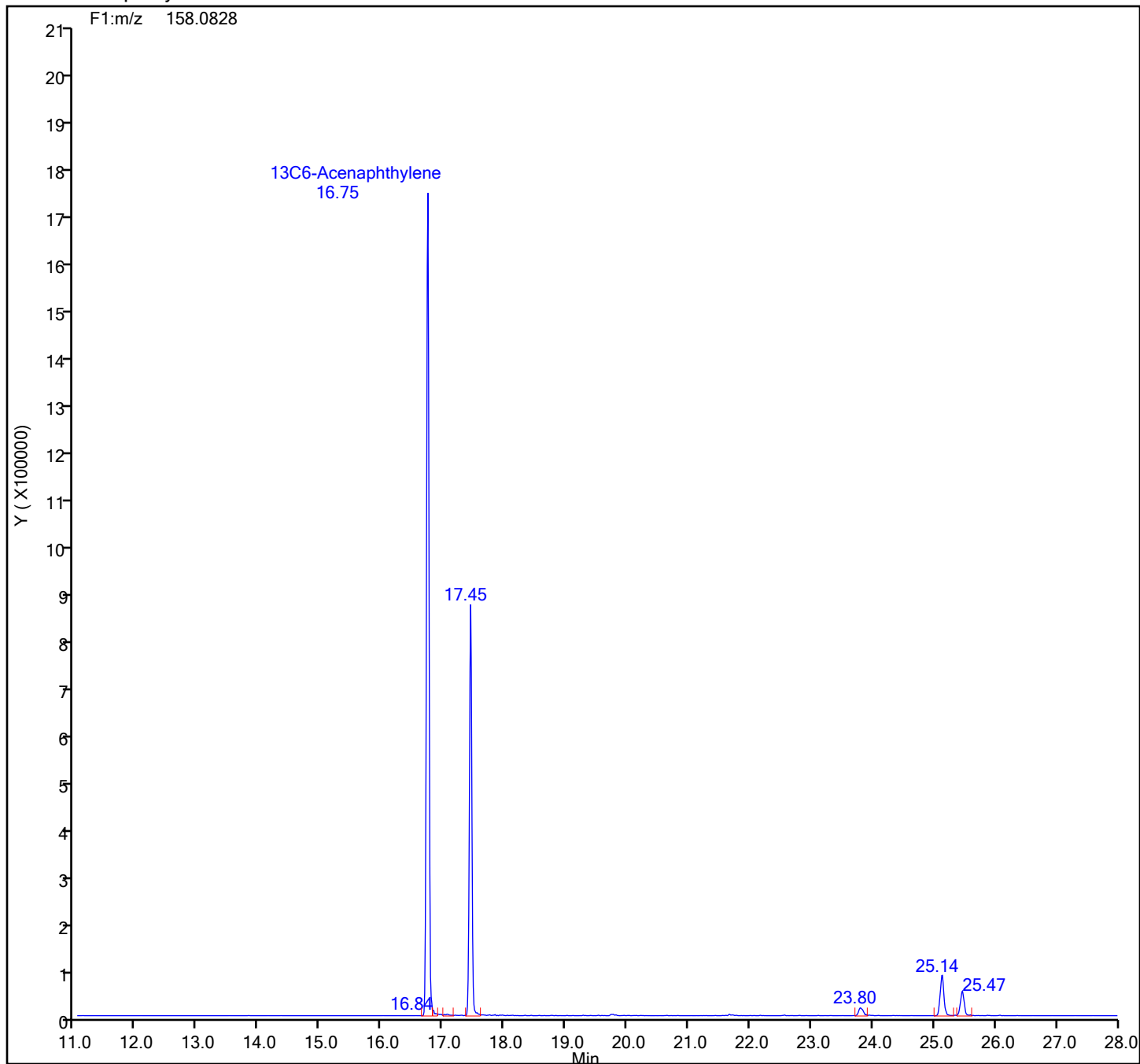
Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

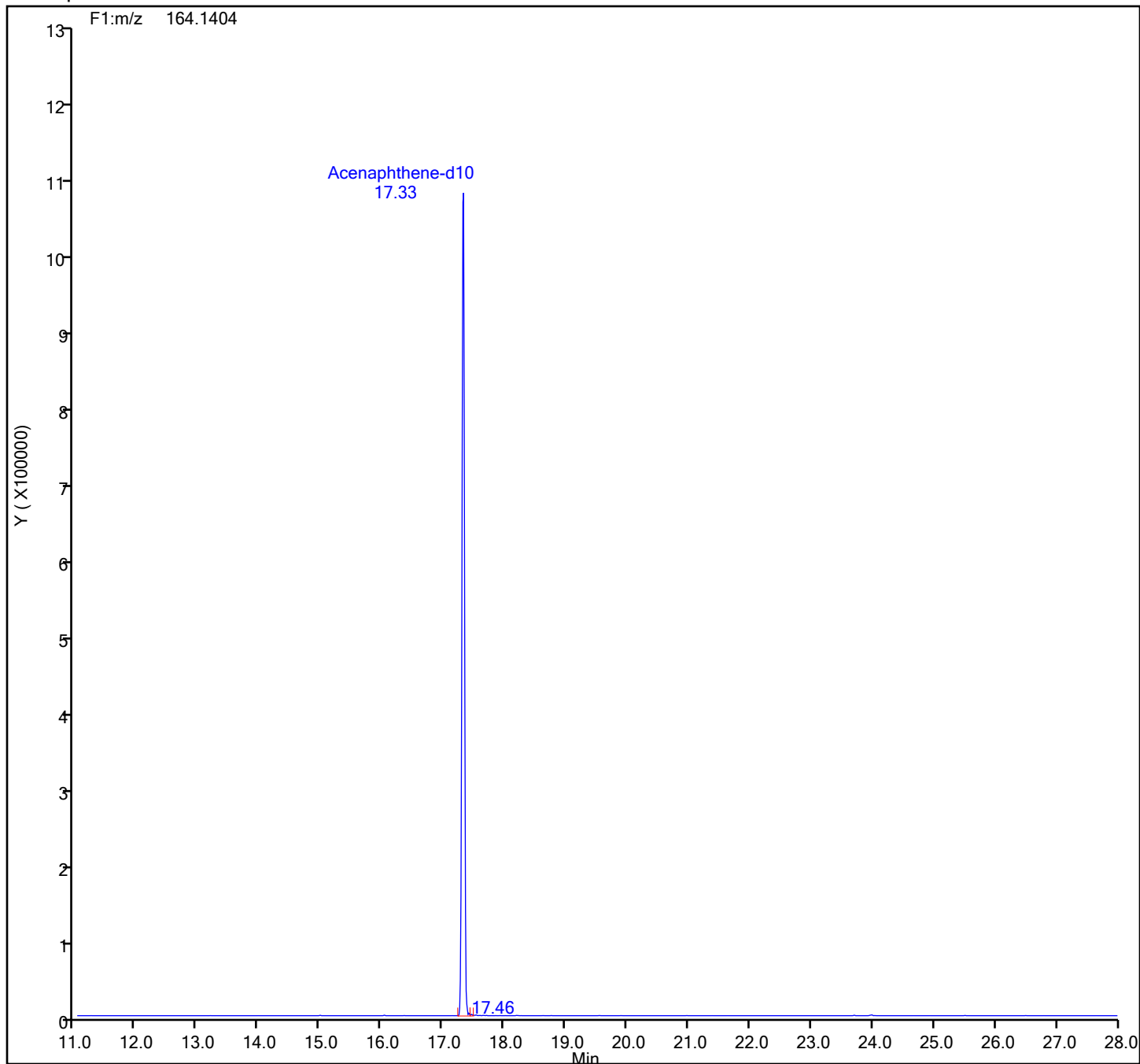
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

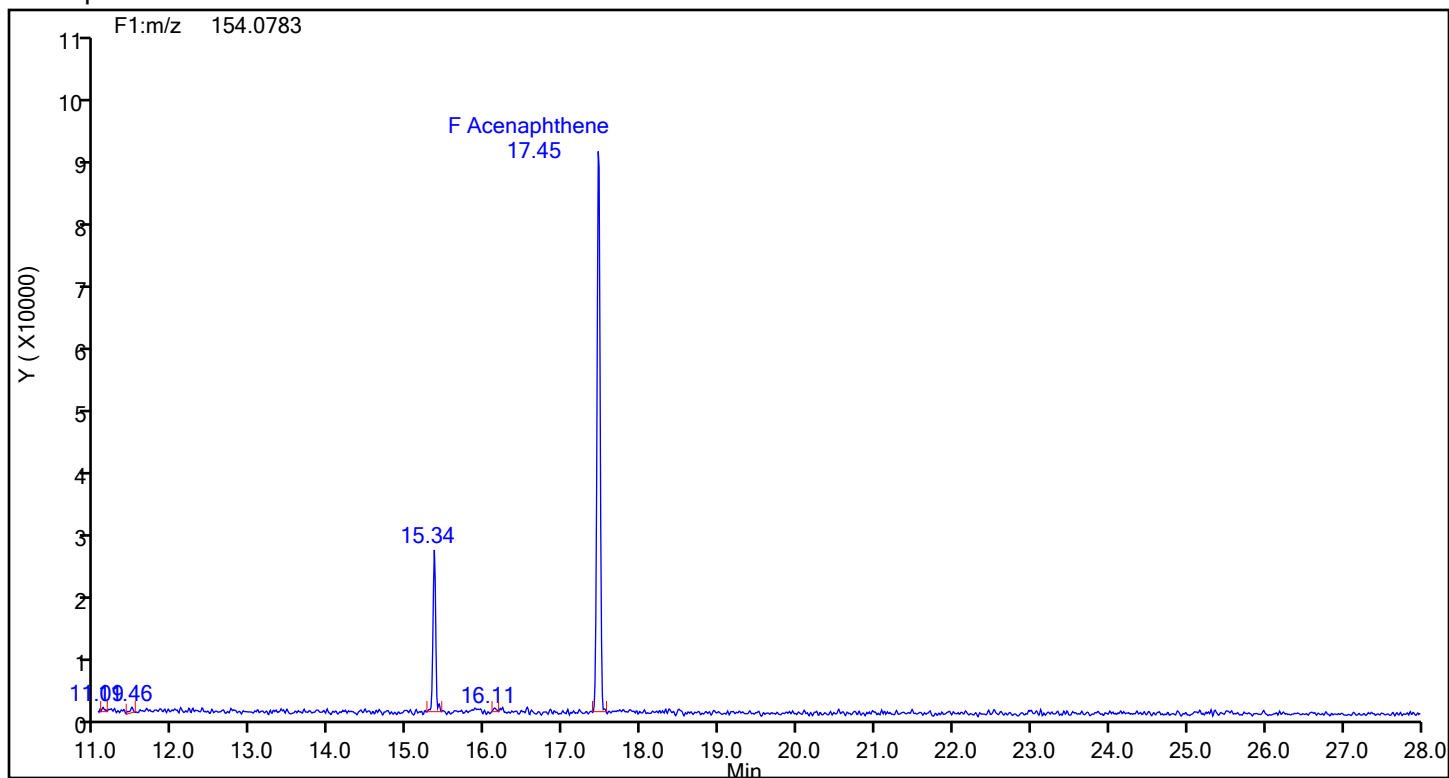
Acenaphthene-d10 Standards



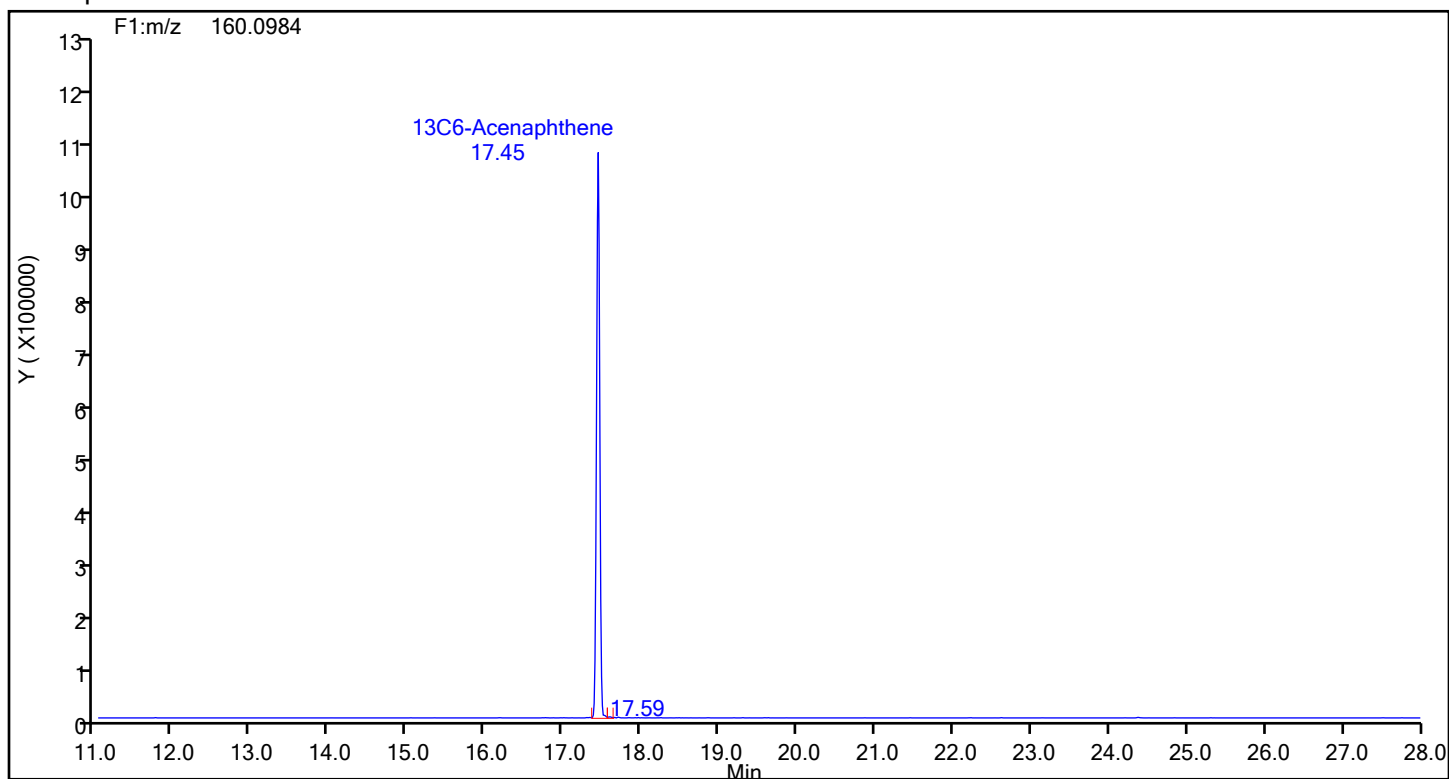
Eurofins Knoxville

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Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



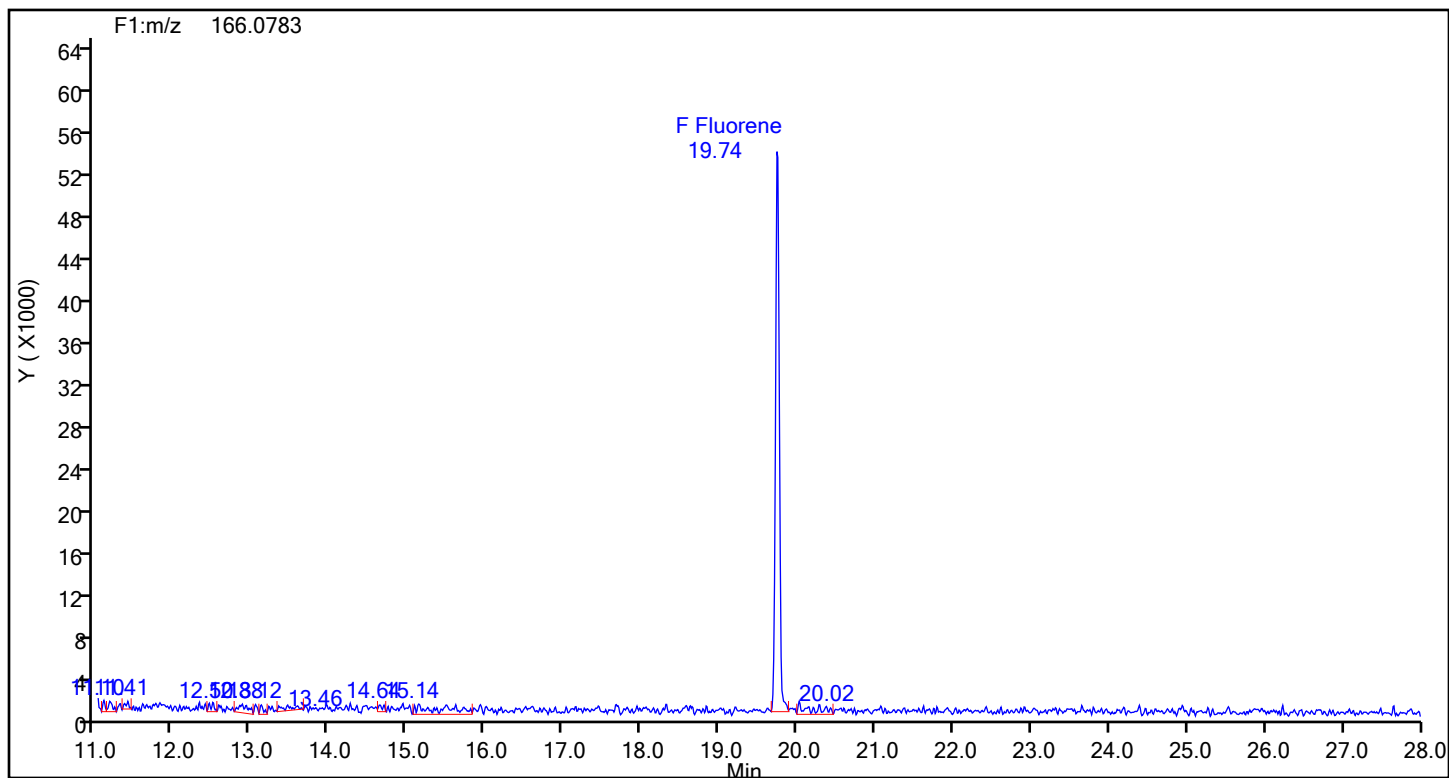
Acenaphthene Standards



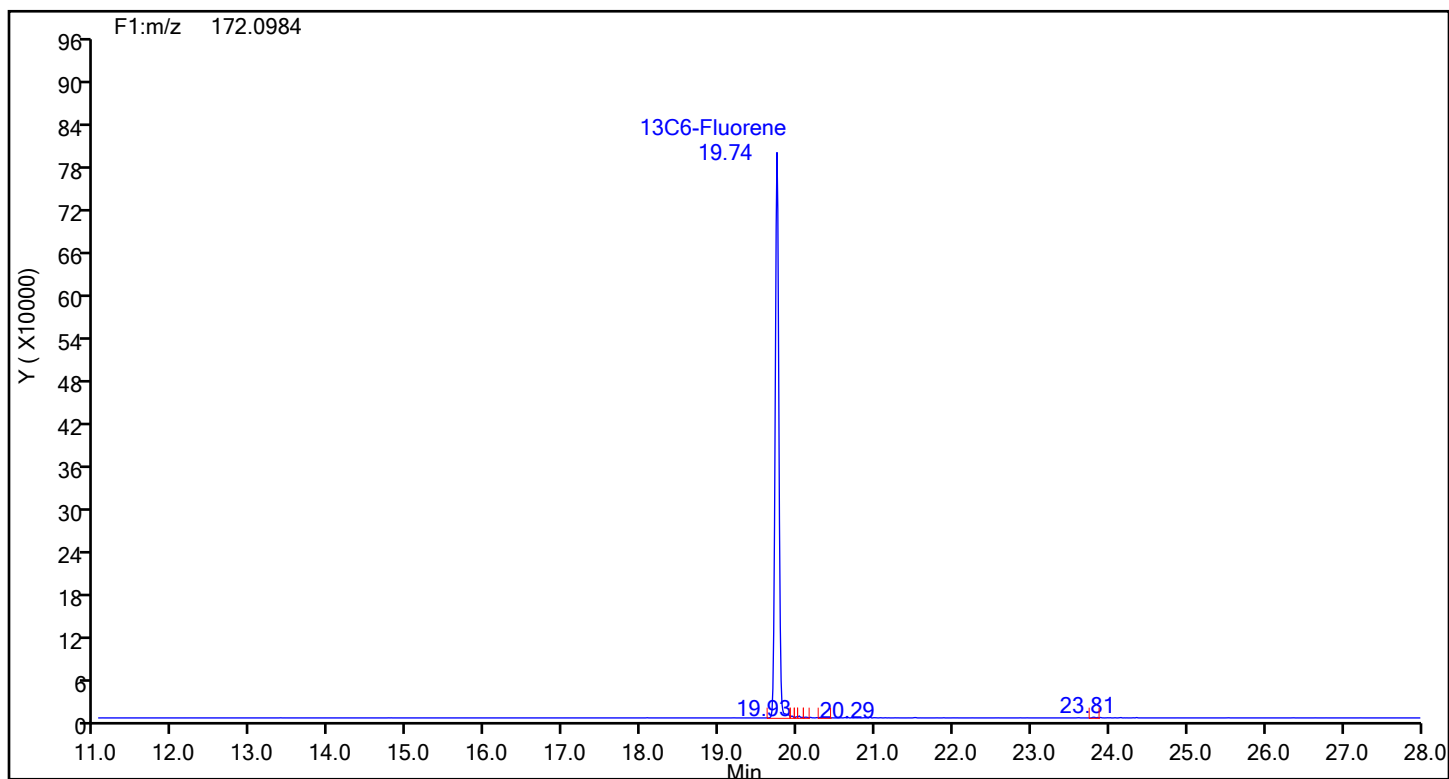
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

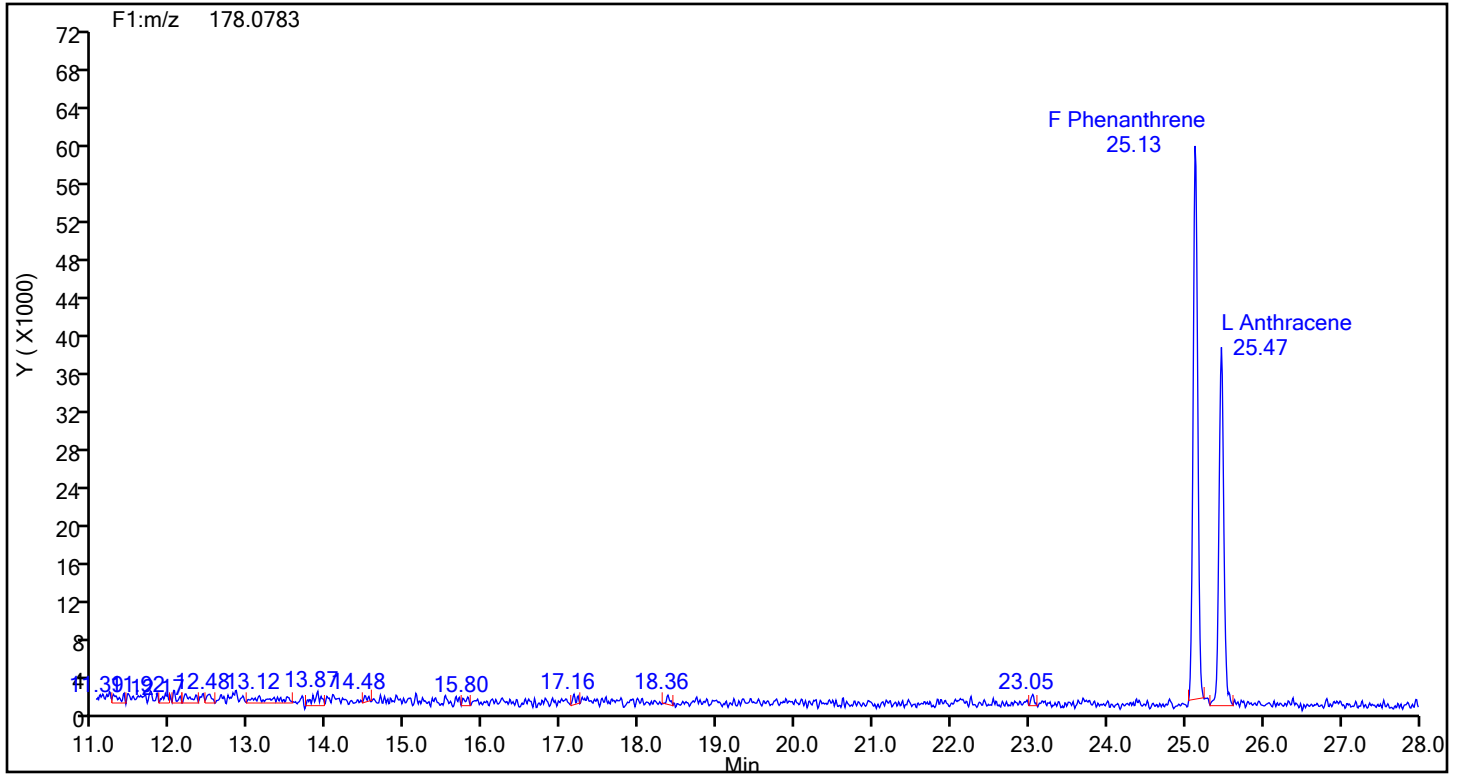


Fluorene Standards

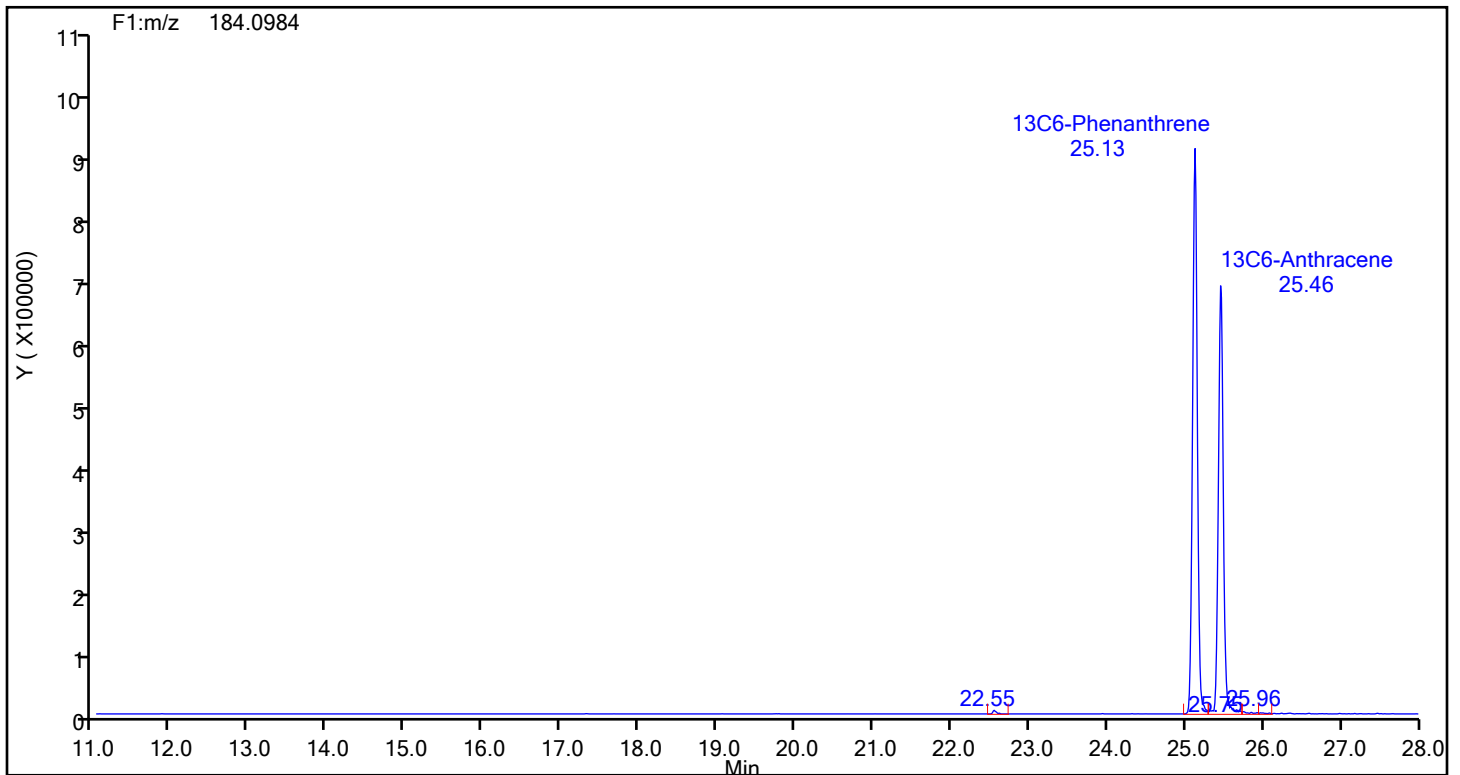


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

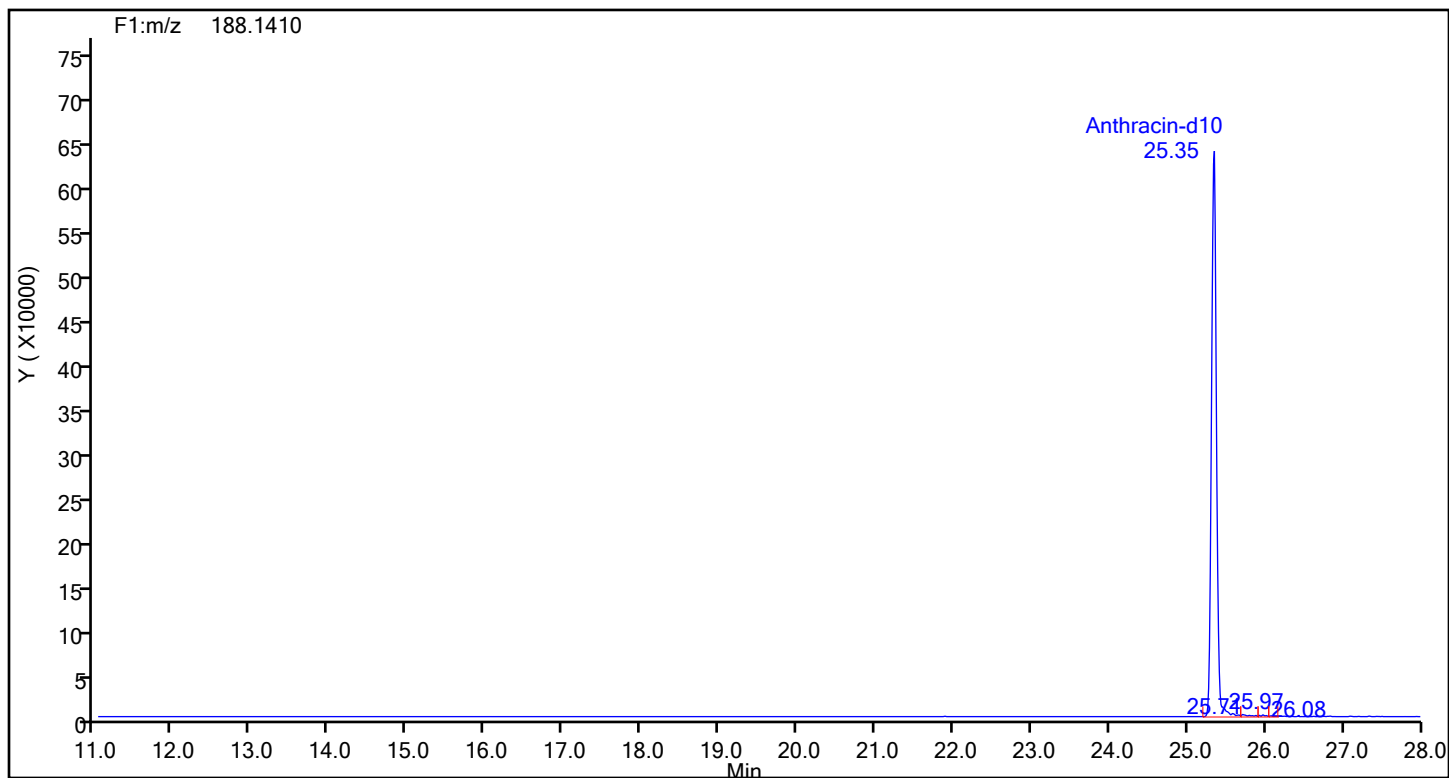


Phenanthrene Standards

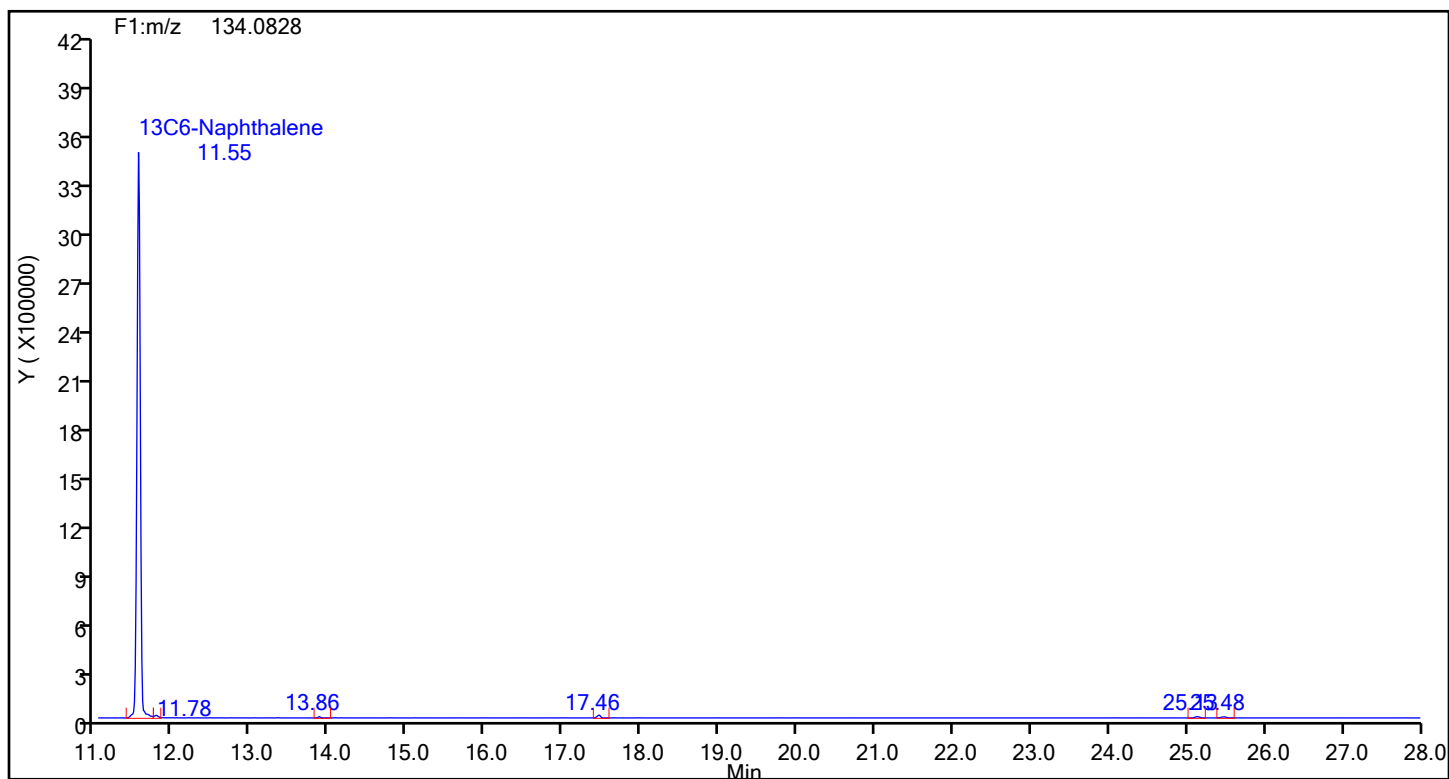


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

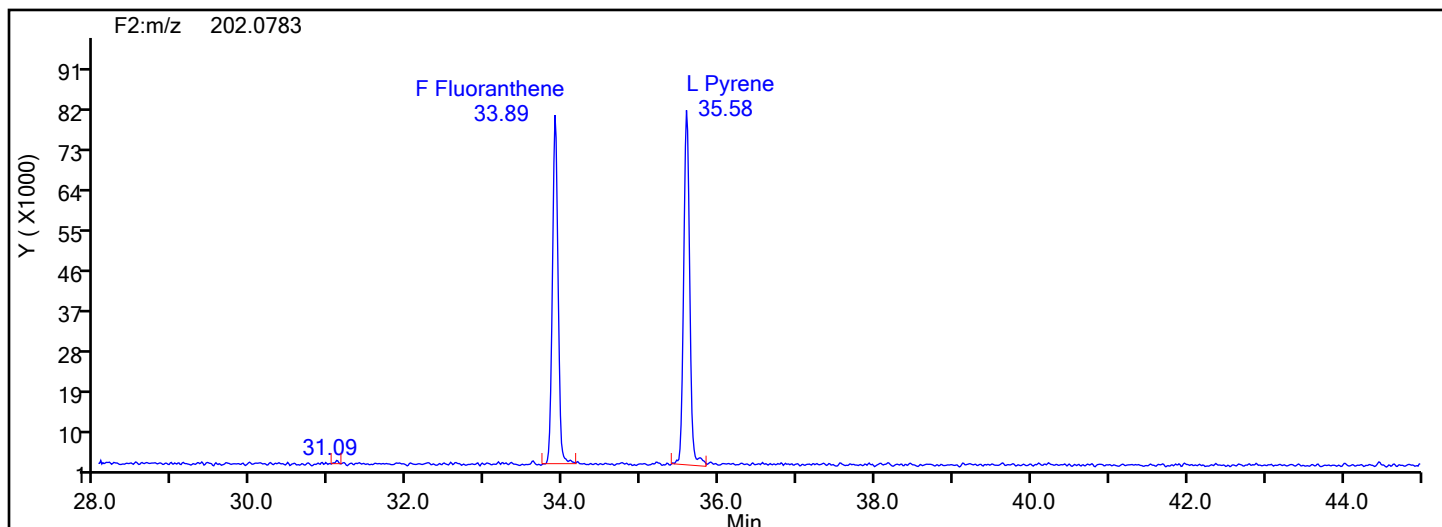


Anthracin-d10 Standards

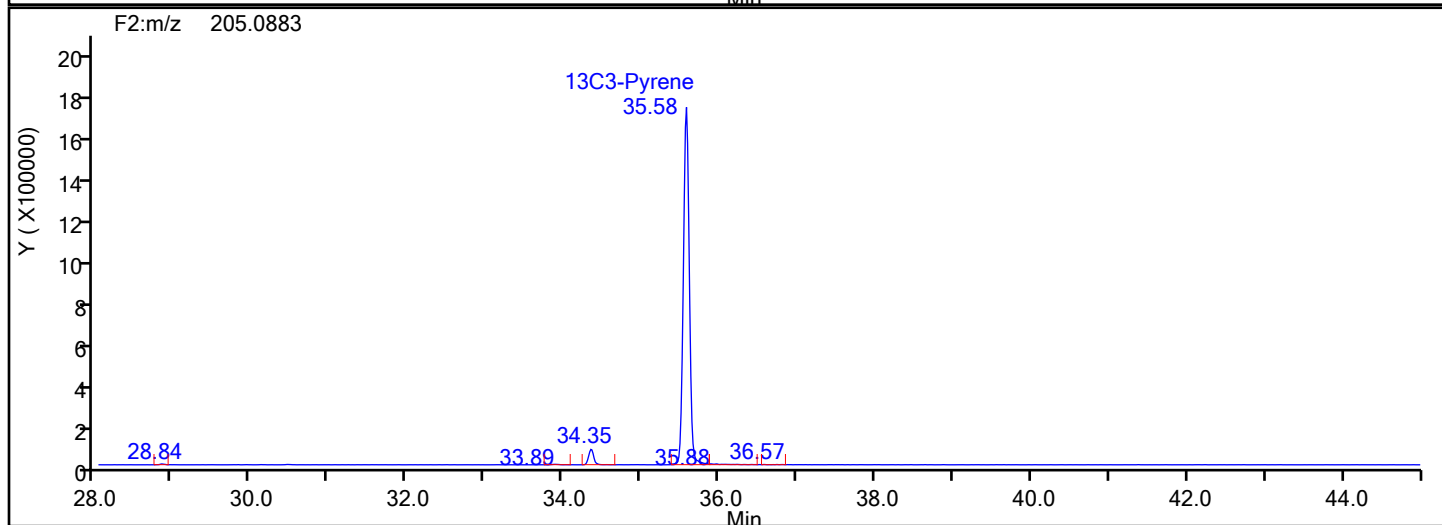
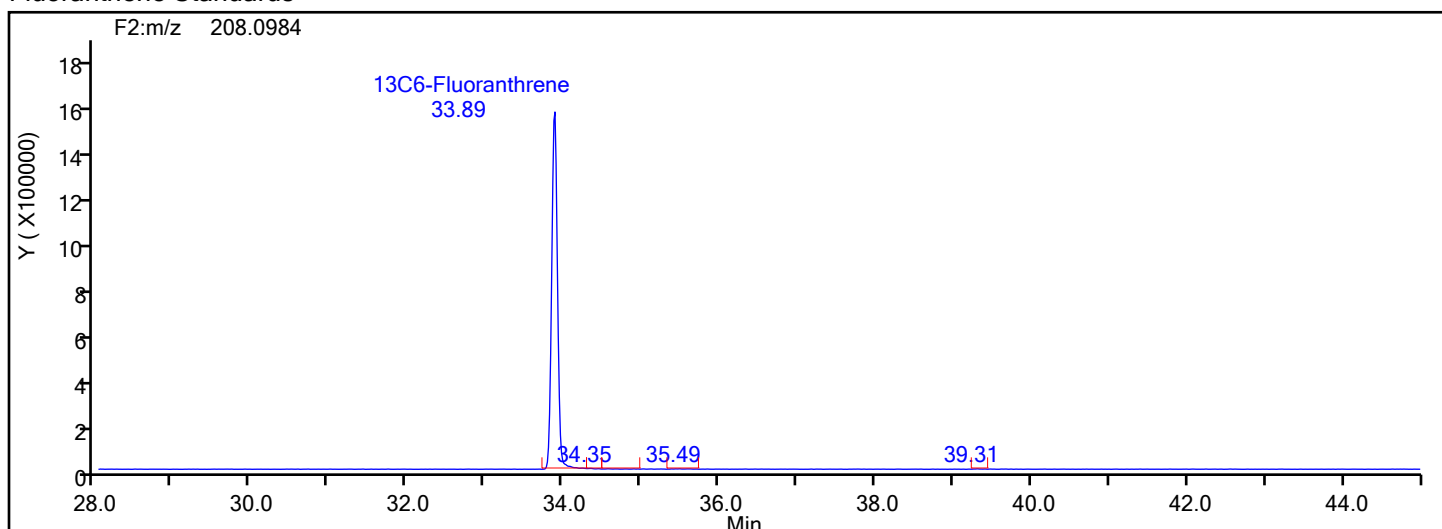


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



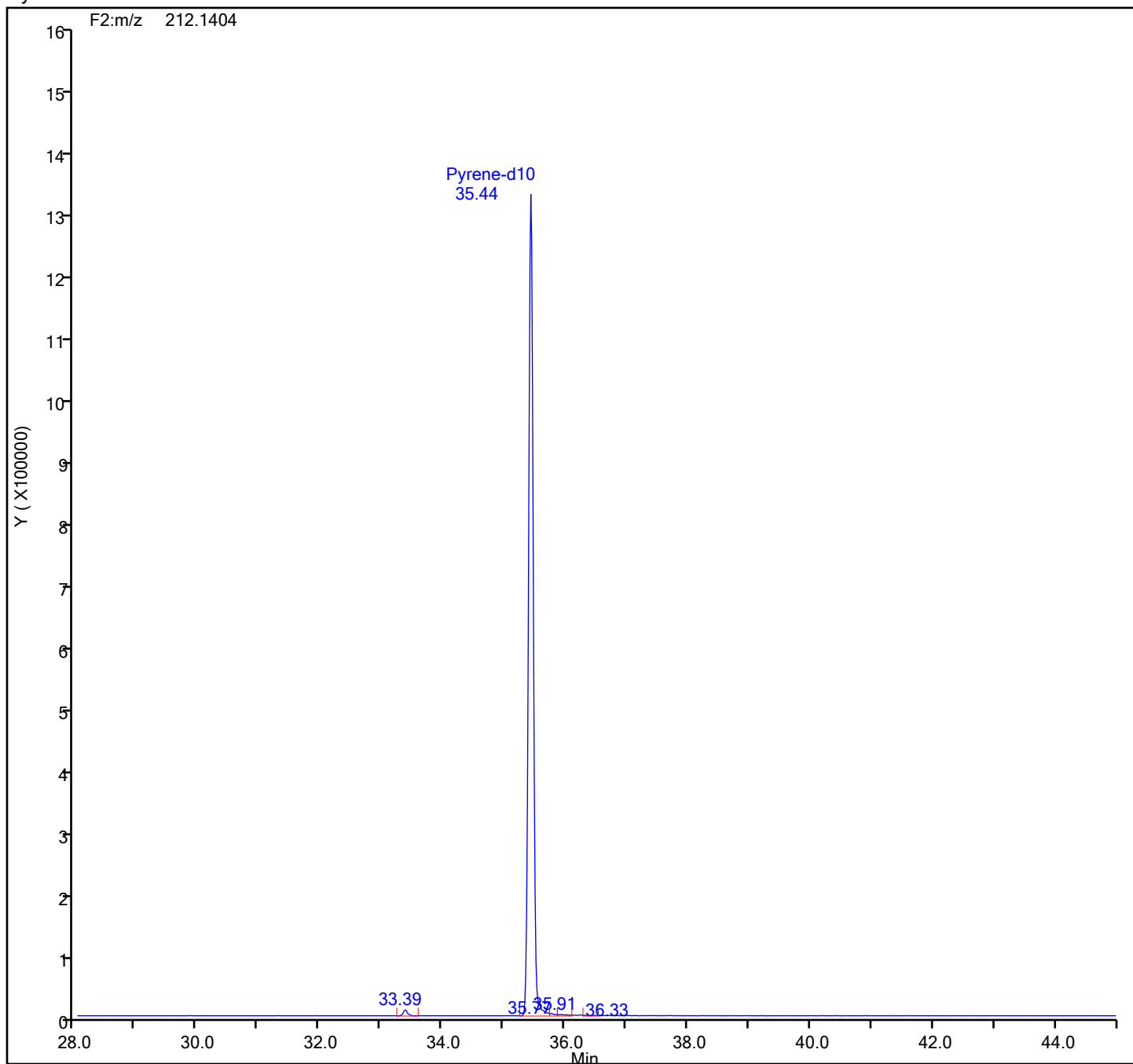
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

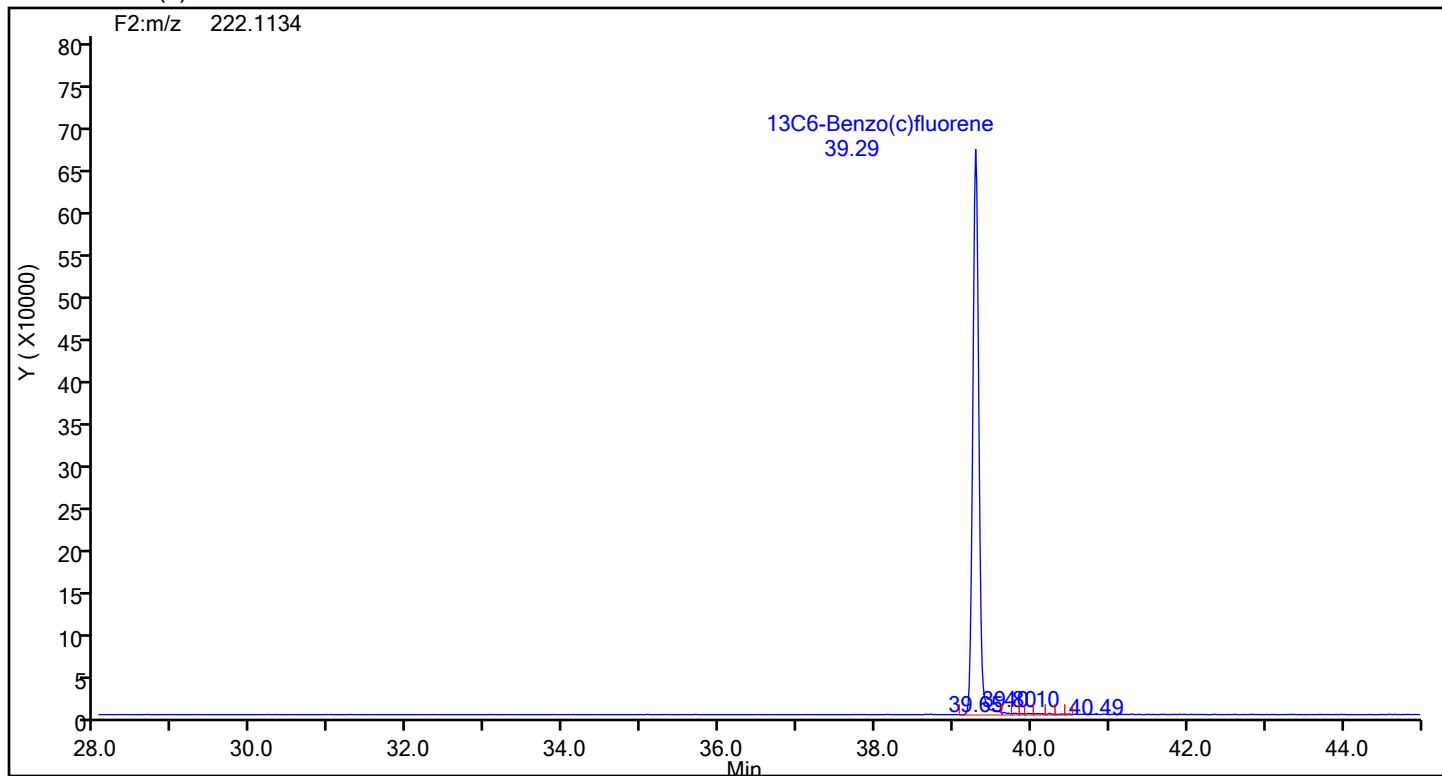
Pyrene-d10 Standards



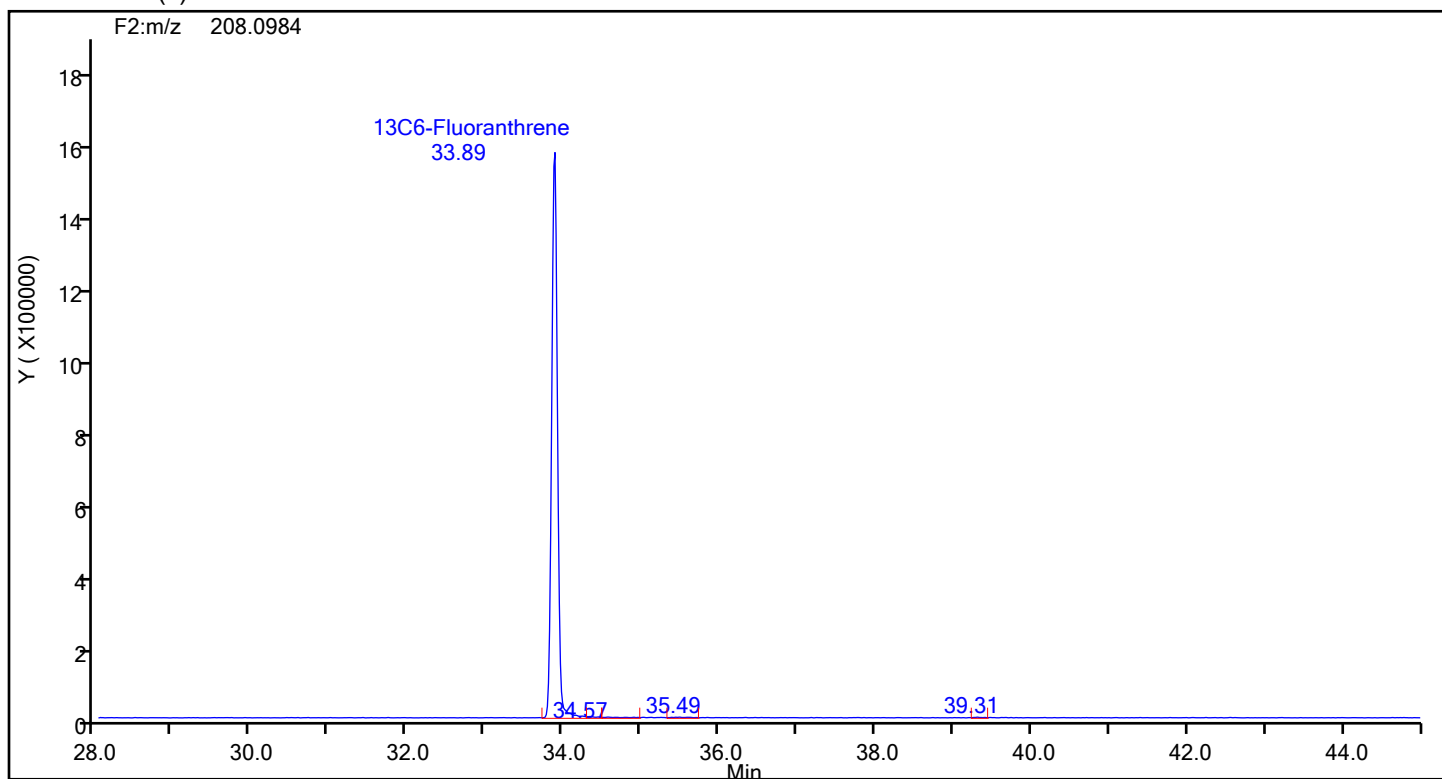
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



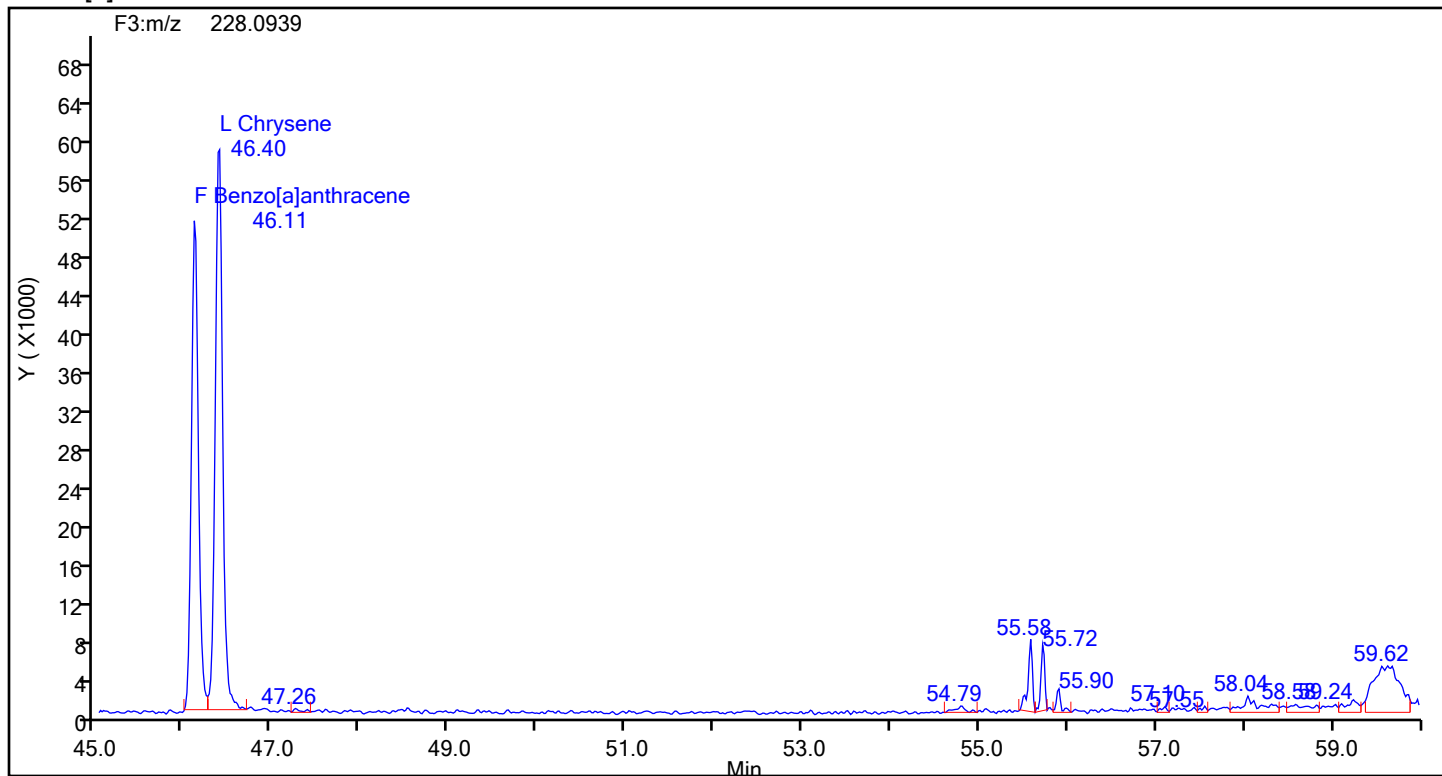
13C6-Benzo(c)fluorene Standards



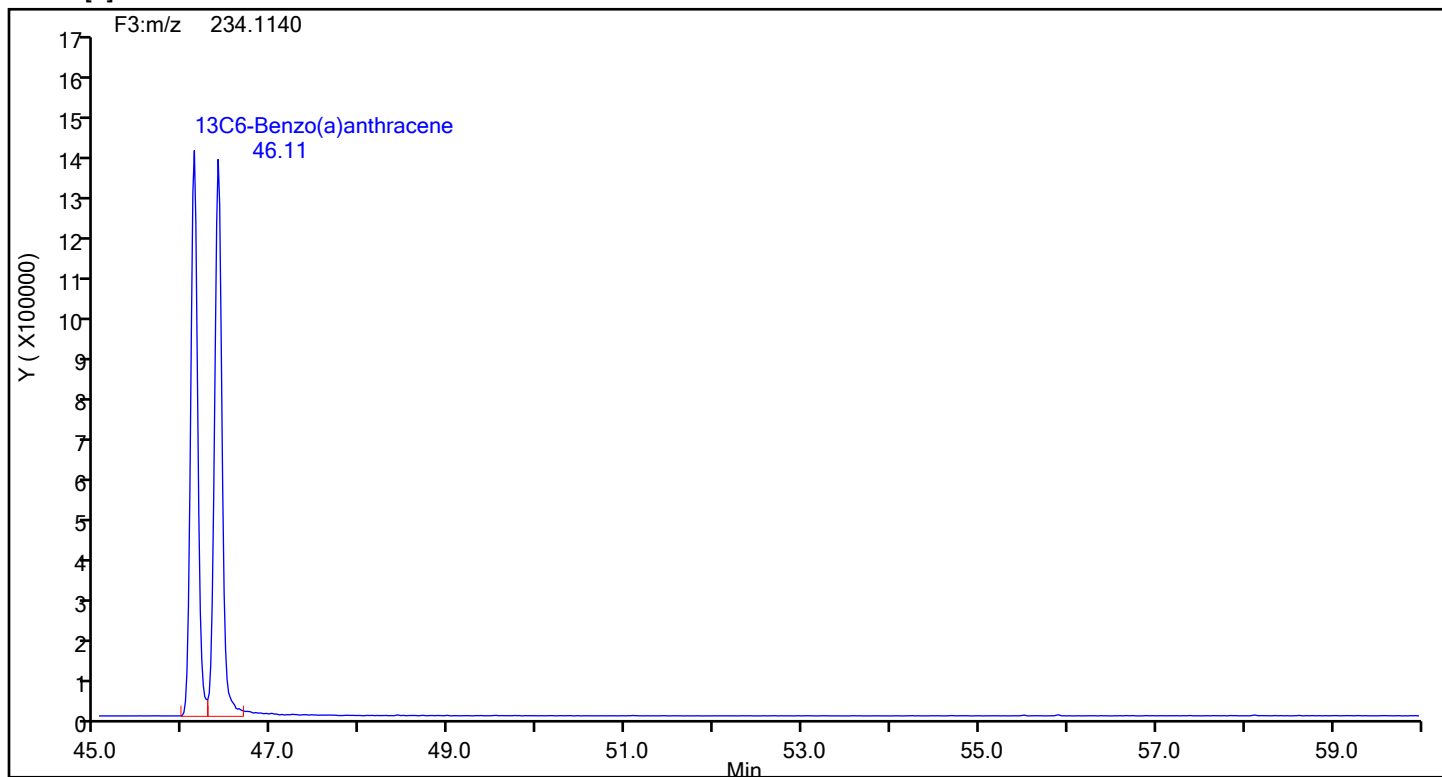
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



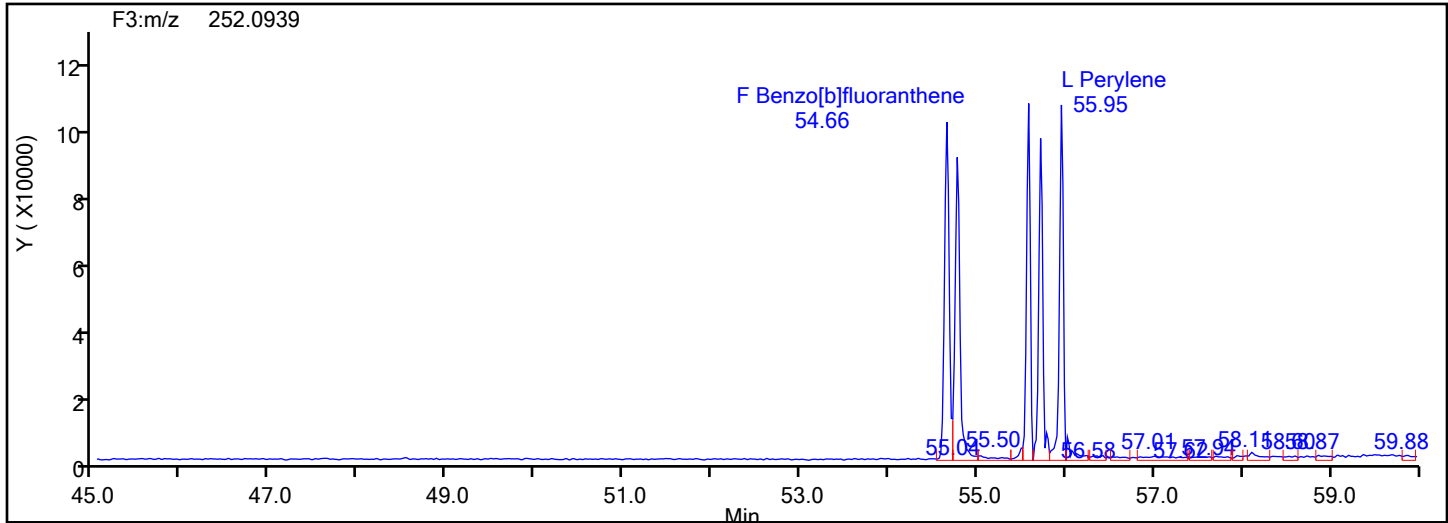
Benzo[a]anthracene Standards



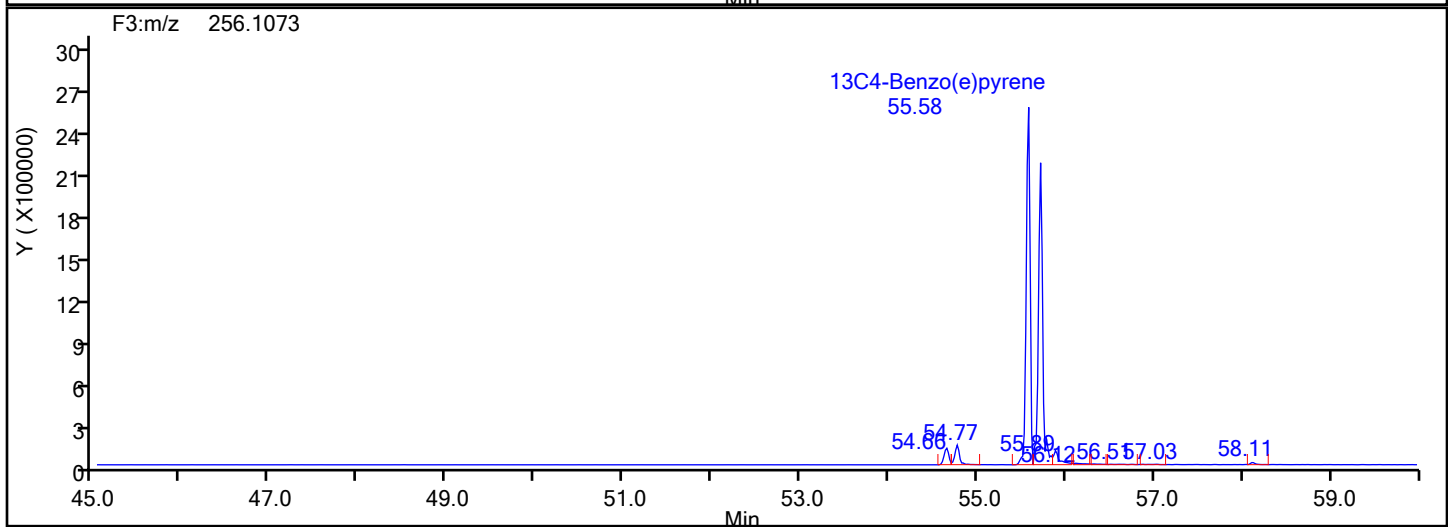
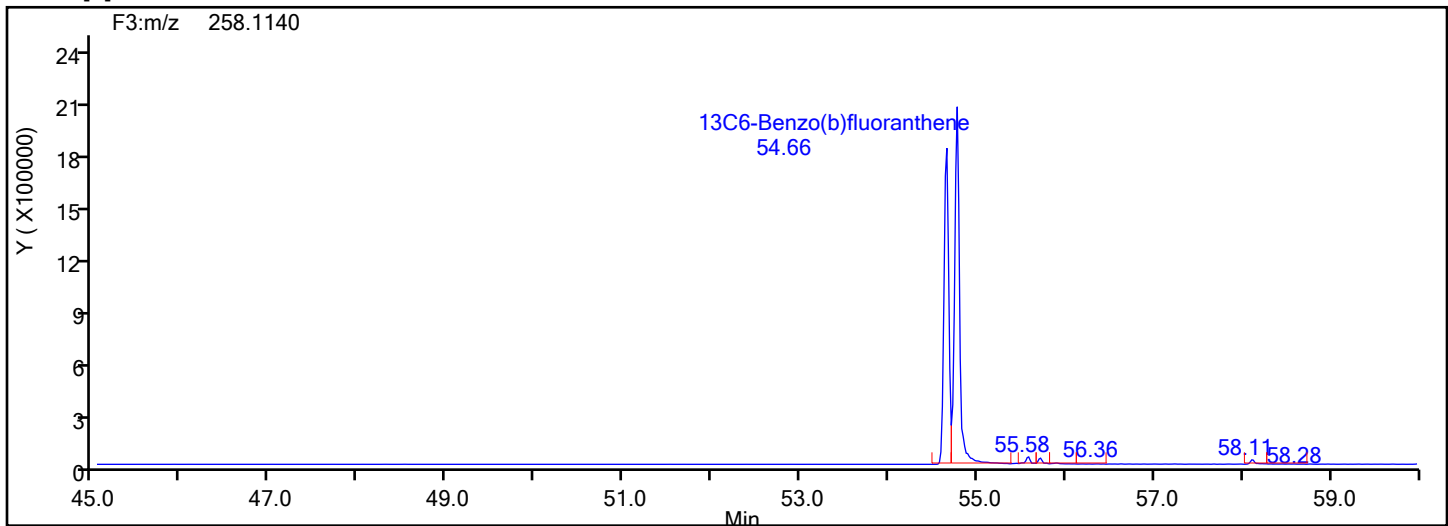
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



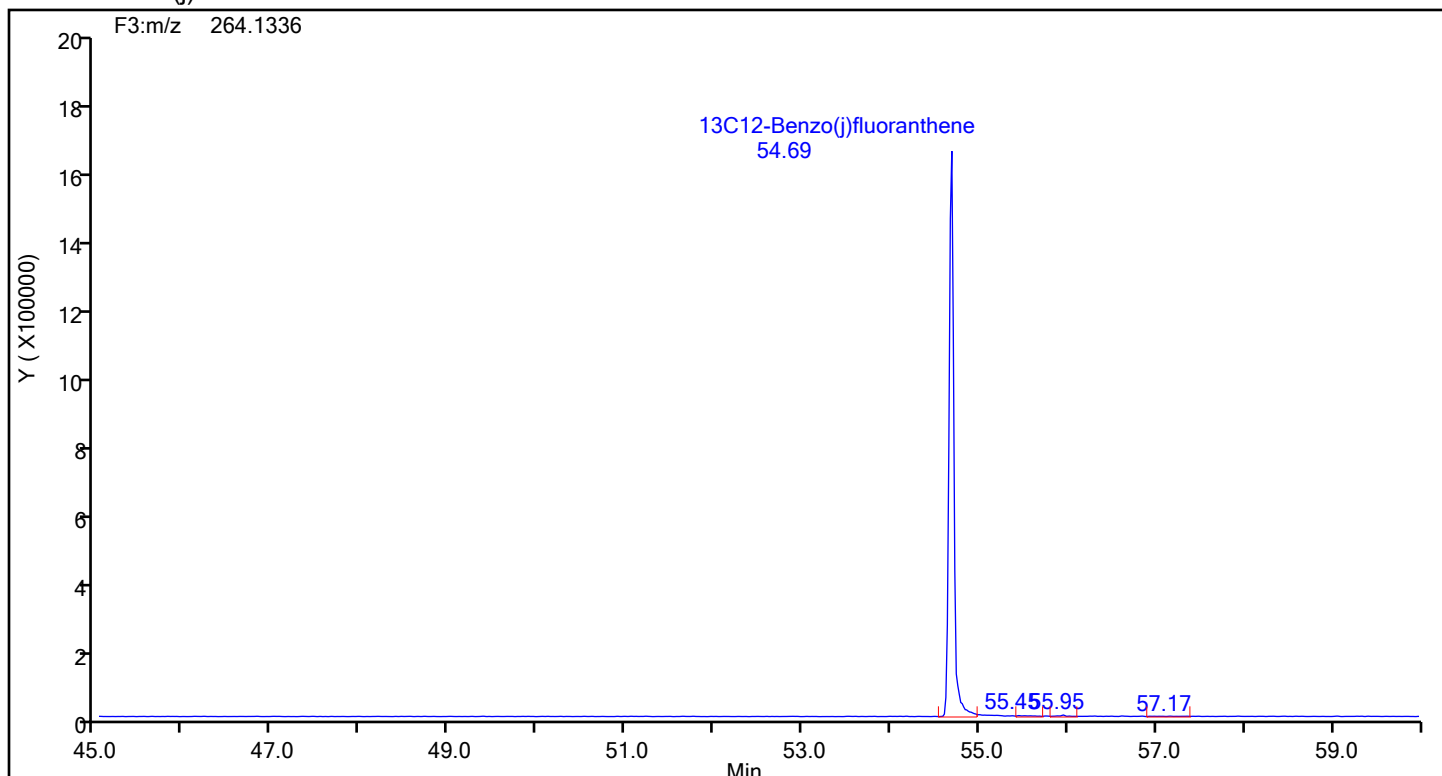
Benzo[b]fluoranthene Standards



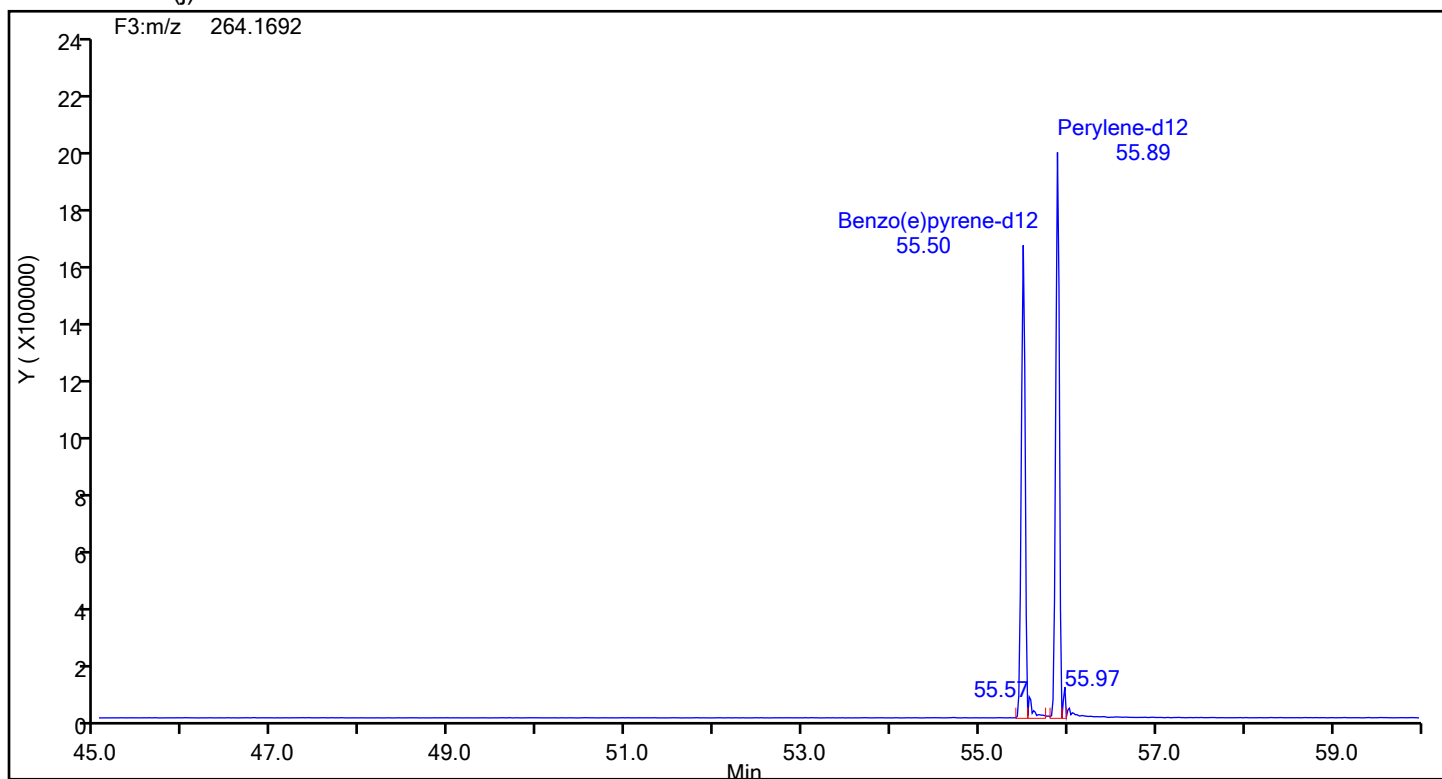
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



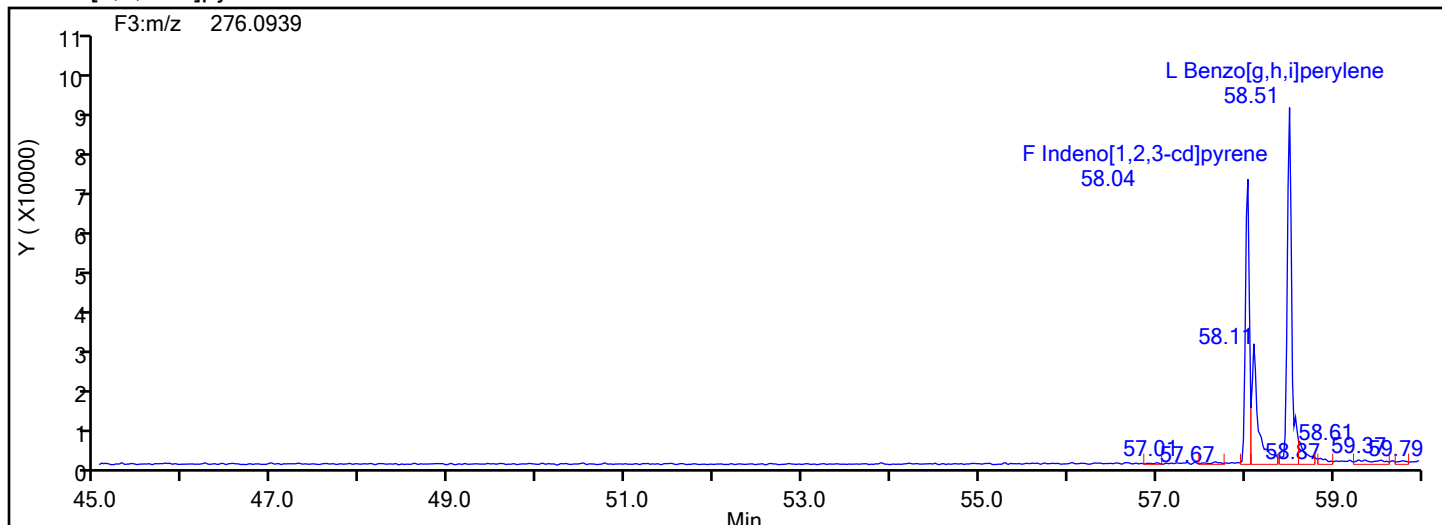
13C12-Benzo(j)fluoranthene Standards



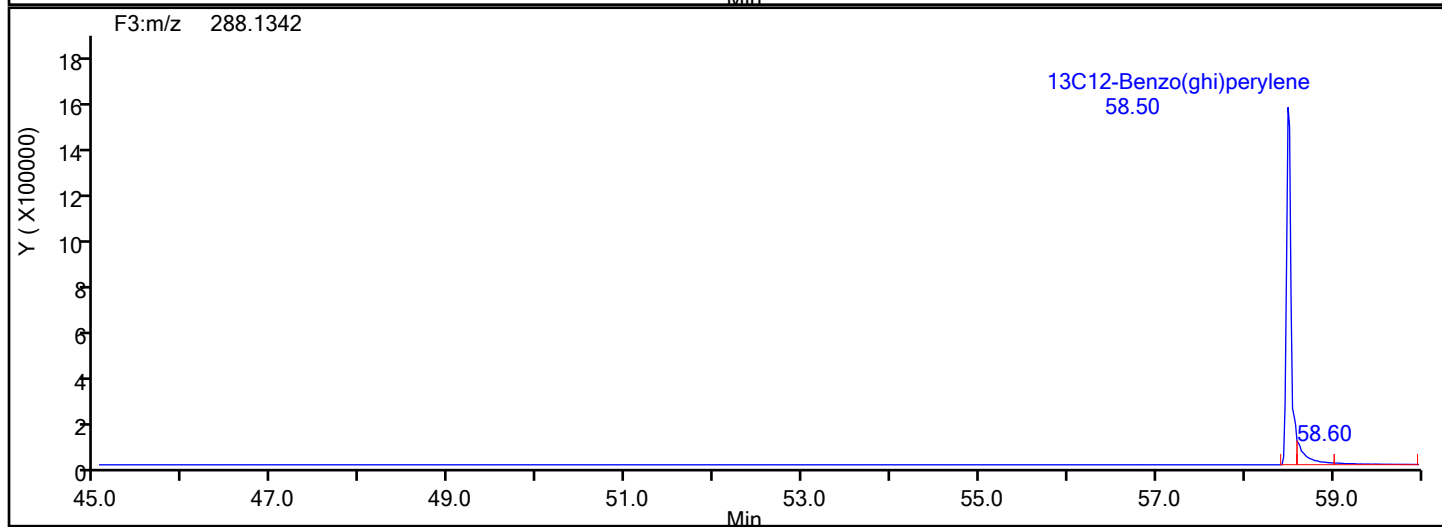
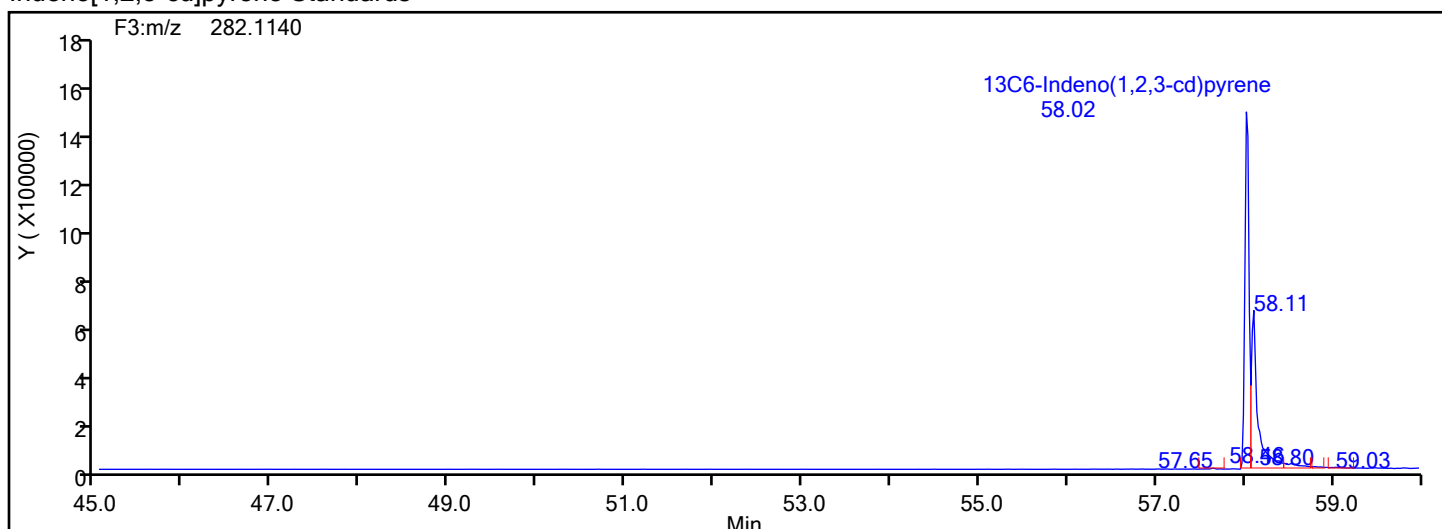
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

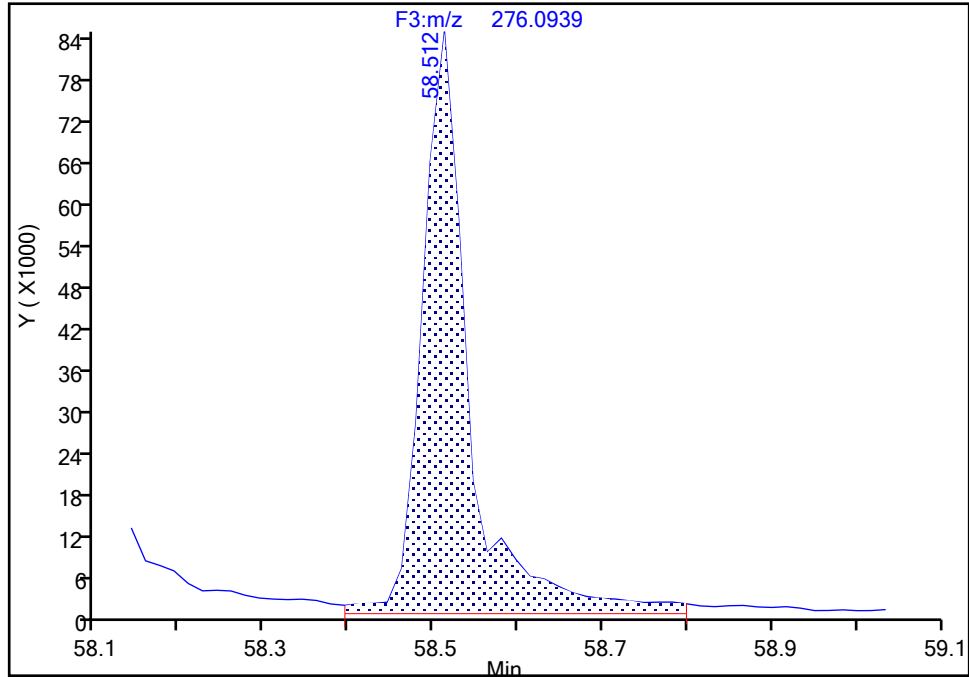
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

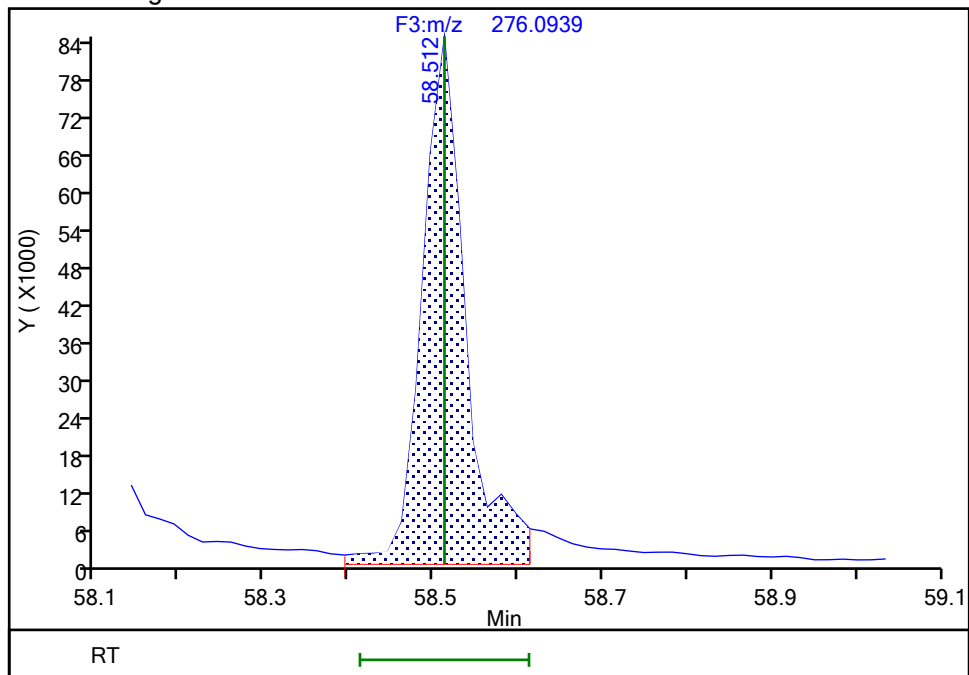
RT: 58.51
Area: 328057
Amount: 4.272168
Amount Units: pg/ul

Processing Integration Results



RT: 58.51
Area: 301308
Amount: 4.025216
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

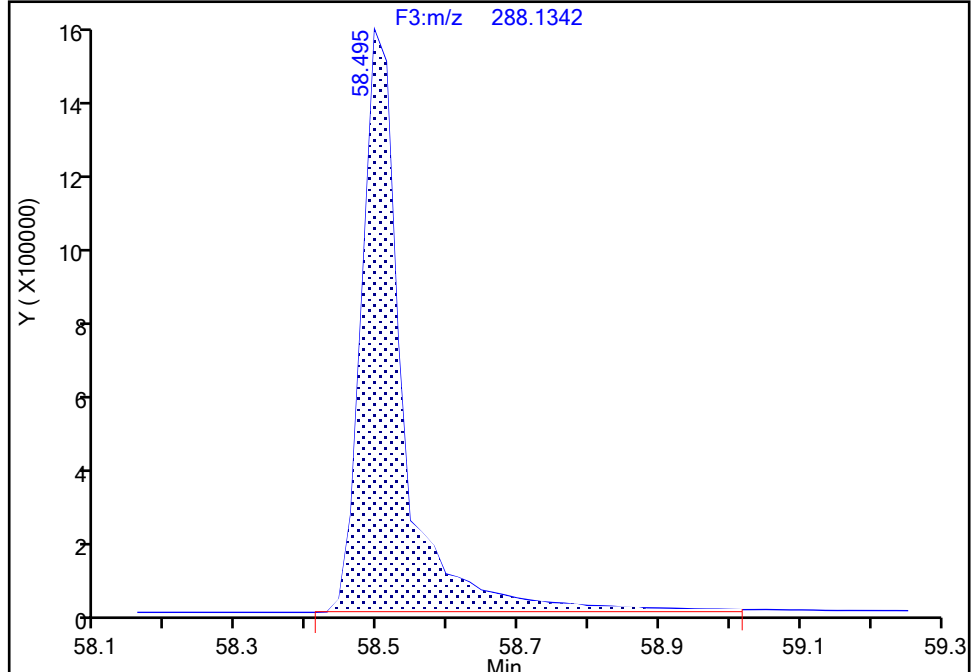
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Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

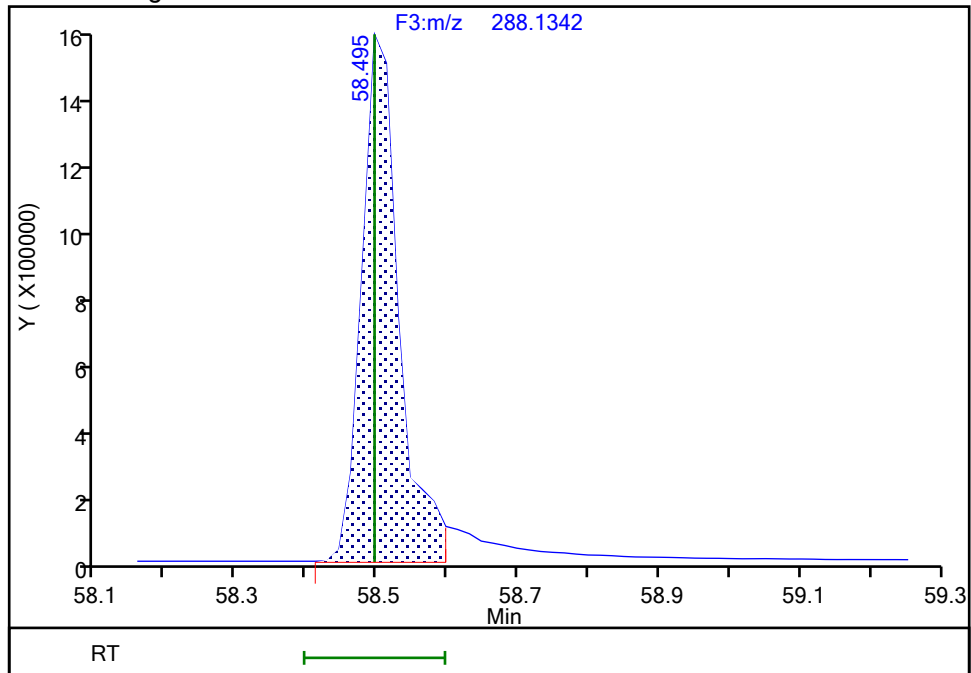
RT: 58.50
Area: 6519750
Amount: 97.969907
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 5830946
Amount: 92.825945
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:05 -04:00:00 (UTC)

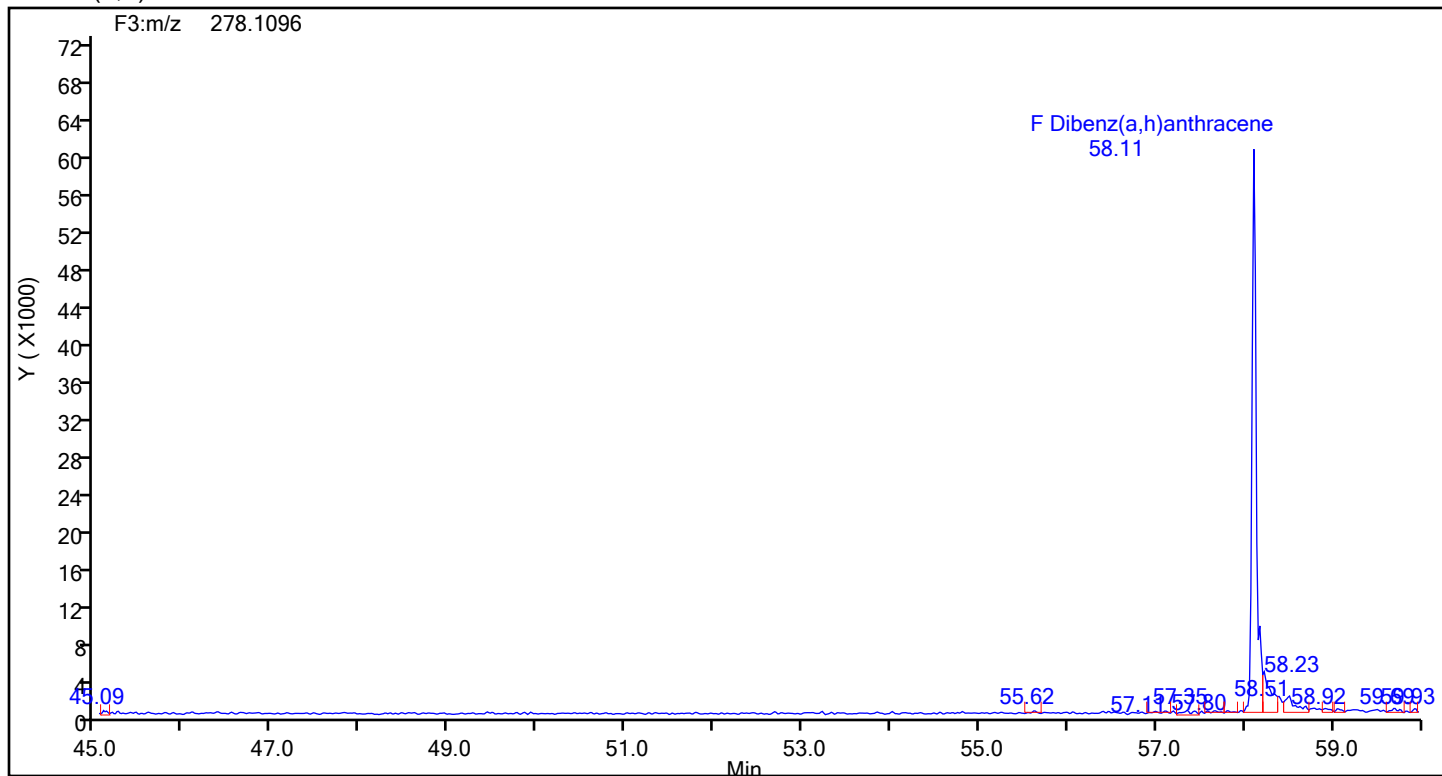
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

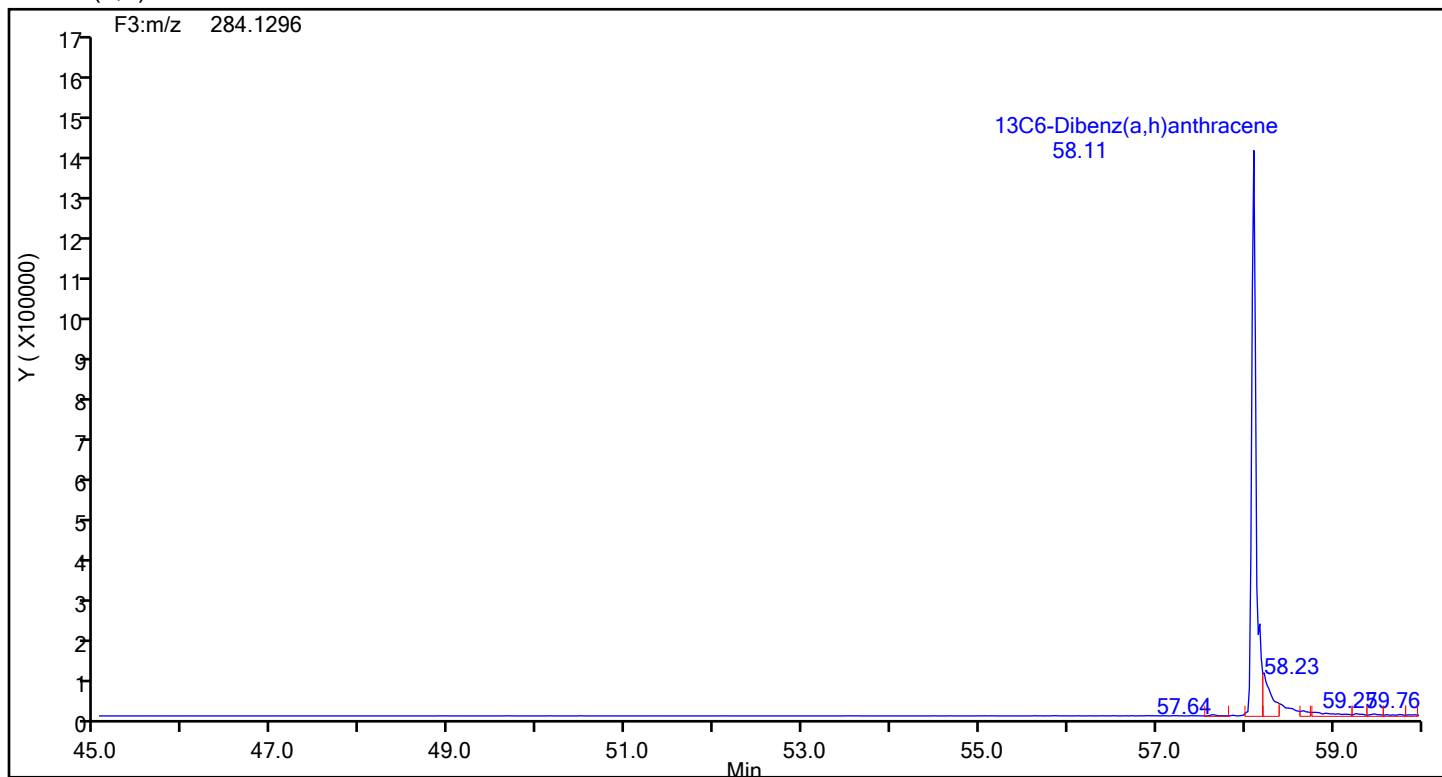
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

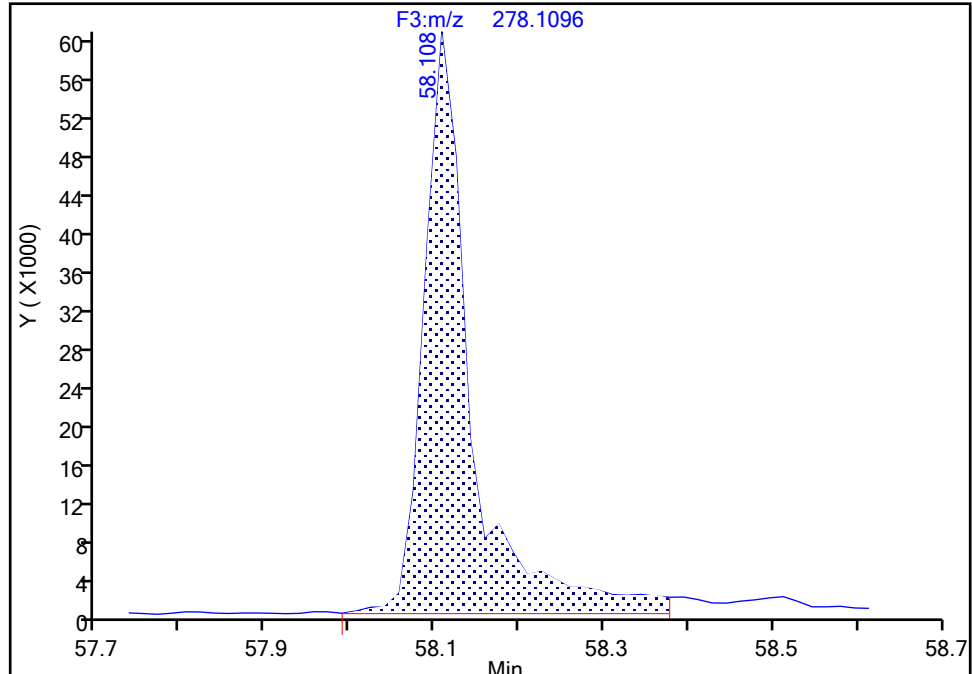
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Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

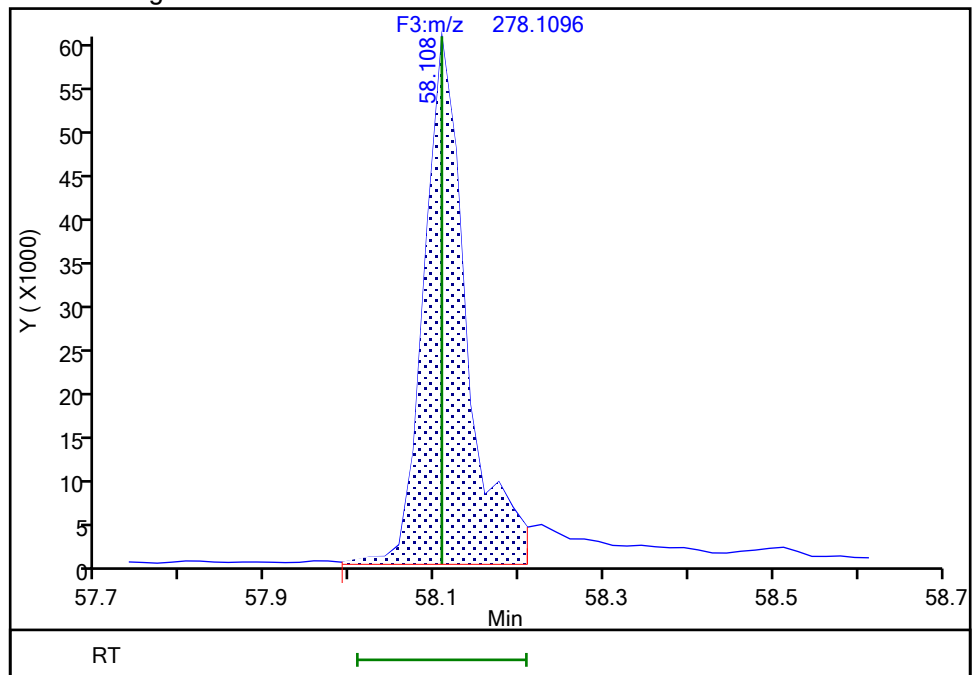
RT: 58.11
Area: 235967
Amount: 4.385611
Amount Units: pg/ul

Processing Integration Results



RT: 58.11
Area: 210948
Amount: 3.903545
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:57 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

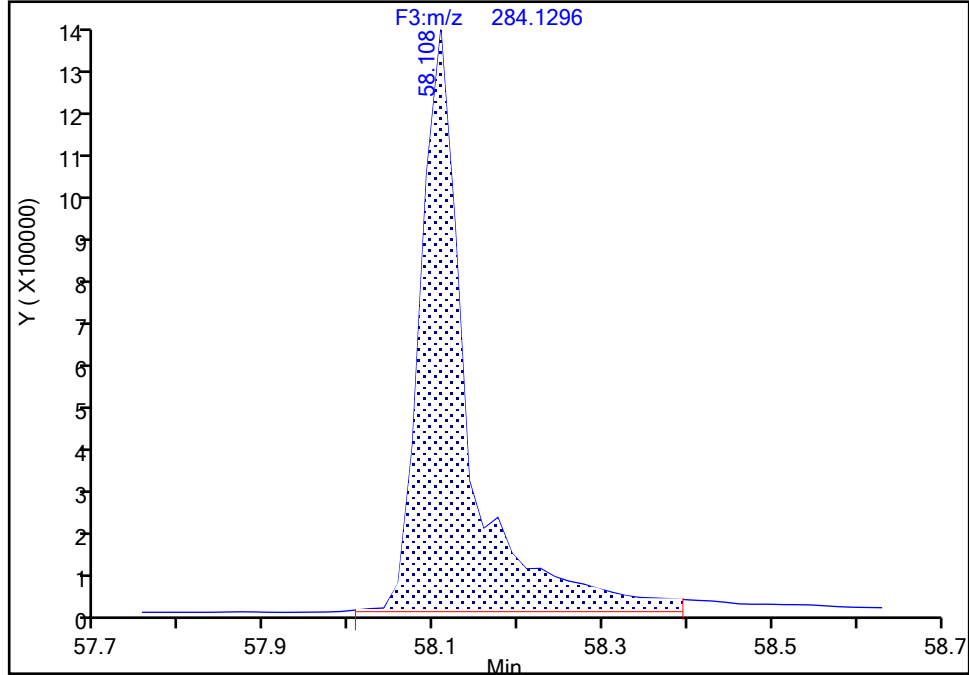
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic3.d
Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

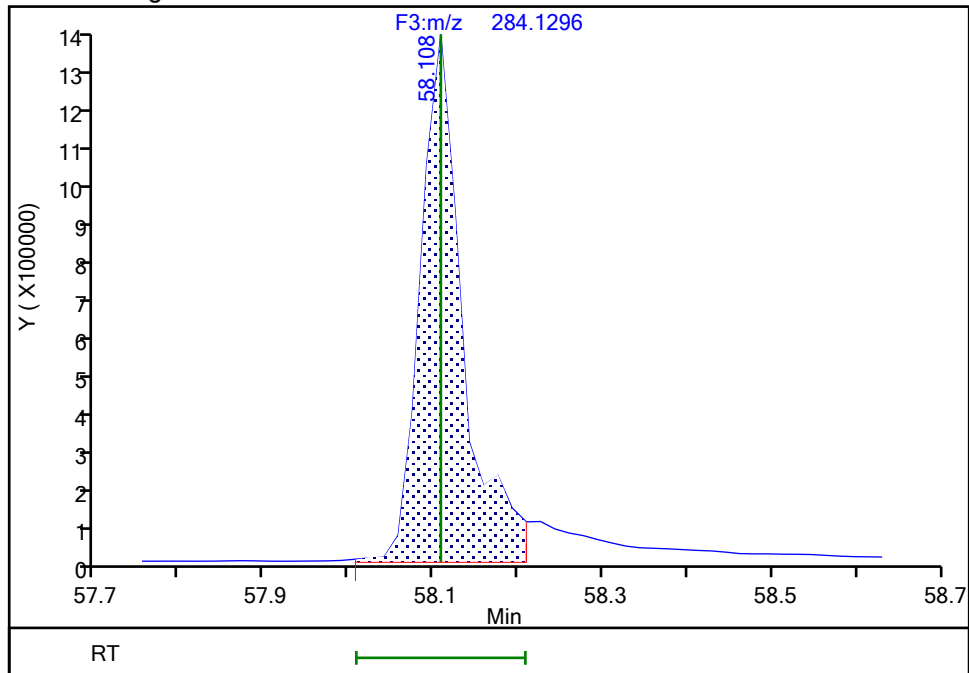
RT: 58.11
Area: 5362382
Amount: 91.667227
Amount Units: pg/ul

Processing Integration Results



RT: 58.11
Area: 4776504
Amount: 91.863907
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
 Lims ID: IC L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2024 19:47:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-004
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	11716317		3.3746	100.0	100.0	0.006040	0.006040	99.97	
Naphthalene	11:33	3903394		1.2893	25.8	25.8	0.0222	0.0222	129	
D 13C6-2-Methylnaphthalene	13:52	5490022		1.6031	98.6	98.6	0.000763	0.000763	98.61	
2-Methylnaphthalene	13:52	1847737		1.2786	26.3	26.3	0.0199	0.0199	132	
D 13C6-Acenaphthylene	16:44	5757839		1.6520	100.4	100.4	0.001086	0.001086	100	
Acenaphthylene	16:45	1541031		2.3661	19.2	19.2	0.0221	0.0221	95.79	
* Acenaphthene-d10	17:19	3473120		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3399456		0.9792	100.0	100.0	0.000999	0.000999	99.96	
Acenaphthene	17:26	939646		1.2697	21.8	21.8	0.0280	0.0280	109	
D 13C6-Fluorene	19:43	3098767		0.8898	100.3	100.3	0.000641	0.000641	100	
Fluorene	19:44	817773		1.2532	21.1	21.1	0.0292	0.0292	105	
D 13C6-Phenanthrene	25:07	4480403		0.5724	99.9	99.9	0.004188	0.004188	99.87	
Phenanthrene	25:07	1073406		1.1044	21.7	21.7	0.0394	0.0394	108	
\$ Anthracin-d10	25:20	3328133		0.4257	99.7	99.7	0.001931	0.001931	99.75	
D 13C6-Anthracene	25:27	3635963		0.4523	102.6	102.6	0.005300	0.005300	103	
Anthracene	25:27	983685		1.3586	19.9	19.9	0.0415	0.0415	99.57	
D 13C6-Fluoranthrene	33:52	9182667		1.1994	97.7	97.7	0.0211	0.0211	97.68	
Fluoranthrene	33:53	2114329		1.1513	20.0	20.0	0.0150	0.0150	100	
* Pyrene-d10	35:26	7837595		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10292274		1.3512	97.2	97.2	0.0133	0.0133	97.19	
Pyrene	35:34	2200520		1.0652	20.1	20.1	0.0153	0.0153	100	
\$ 13C6-Benzo(c)fluorene	39:17	3555493		0.5136	88.3	88.3	0.003601	0.003601	88.33	
D 13C6-Benzo(a)anthracene	46:07	7704055		1.5189	101.2	101.2	0.0149	0.0149	101	
Benzo[a]anthracene	46:07	1488098		0.9739	19.8	19.8	0.0175	0.0175	99.17	
D 13C6-Chrysene	46:23	8166961		1.6287	100.1	100.1	0.0139	0.0139	100	
Chrysene	46:23	1613361		0.9815	20.1	20.1	0.0169	0.0169	101	
D 13C6-Benzo(b)fluoranthene	54:38	7226370		1.4621	98.6	98.6	0.000823	0.000823	98.63	
Benzo[b]fluoranthene	54:39	1692873		1.1249	20.8	20.8	0.009602	0.009602	104	
\$ 13C12-Benzo(j)fluoranthene	54:40	6484034		1.3558	95.4	95.4	0.0171	0.0171	95.43	
D 13C6-Benzo(k)fluoranthene	54:46	8387092		1.7507	95.6	95.6	0.000687	0.000687	95.60	
Benzo[k]fluoranthene	54:46	1885945		1.1271	20.0	20.0	0.008676	0.008676	99.75	
* Benzo(e)pyrene-d12	55:30	5011388		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	8133857		1.6368	99.2	99.2	0.0104	0.0104	99.16	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	1761621		1.0013	21.6	21.6	0.007898	0.007898	108	
Benzo[a]pyrene	55:43	1660260		1.1130	19.8	19.8	0.008299	0.008299	99.20	
D 13C4-Benzo(a)pyrene	55:43	7518310		1.5508	96.7	96.7	0.0109	0.0109	96.74	
D Perylene-d12	55:53	6075448		1.1917	101.7	101.7	0.0177	0.0177	102	
Perylene	55:57	1591843		1.4307	18.3	18.3	0.007063	0.007063	91.57	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5157889		1.0218	100.7	100.7	0.008657	0.008657	101	M
Indeno[1,2,3-cd]pyrene	58:01	1091218		1.1249	18.8	18.8	0.008244	0.008244	94.03	
D 13C6-Dibenz(a,h)anthracene	58:06	4988169		1.0553	94.3	94.3	0.005702	0.005702	94.32	M
Dibenz(a,h)anthracene	58:06	1098846		1.1314	19.5	19.5	0.006864	0.006864	97.36	M
D 13C12-Benzo(ghi)perylene	58:29	6056294		1.2749	94.8	94.8	0.005995	0.005995	94.79	M
Benzo[g,h,i]perylene	58:30	1535539		1.2838	19.8	19.8	0.006558	0.006558	98.75	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Jun-2024 19:47:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-004
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	11716317	3897082	100	250	38971		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	3903394	1298165	446	1115	2911		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5490022	2599116	6	15	433186		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	1847737	852094	265	662	3215		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5757839	1994063	9	22	221563		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	1541031	557482	237	592	2352		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3473120	1226490	4	10	306623		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3399456	1131211	5	12	226242		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	939646	325892	161	402	2024		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	3098767	929479	3	7	309826		
Fluorene											
166.0783	19:44	19:45	-1	1.001	817773	239404	136	340	1760		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4480403	1051309	14	35	75094		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	1073406	263170	183	457	1438		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3328133	764636	5	12	152927		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3635963	811406	14	35	57958		
Anthracene											
178.0783	25:27	25:28	-1	1.000	983685	214397	183	457	1172		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9182667	1761346	148	370	11901		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	2114329	408256	122	305	3346		
Pyrene-d10											
212.1404	35:26	35:27	-1		7837595	1459989	43	107	33953		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	10292274	1869308	105	262	17803		
Pyrene											
202.0783	35:34	35:35	-1	1.000	2200520	415144	122	305	3403		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	3555493	652637	11	27	59331		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	7704055	1333038	150	375	8887		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	1488098	266418	91	227	2928		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8166961	1365798	150	375	9105		
Chrysene											
228.0939	46:23	46:25	-2	1.000	1613361	277356	91	227	3048		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7226370	1851591	8	20	231449		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	1692873	471919	80	200	5899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6484034	1591075	154	385	10332		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8387092	2045378	8	20	255672		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	1885945	472393	80	200	5905		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5011388	1661772	140	350	11870		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	8133857	2529058	113	282	22381		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	1761621	581240	80	200	7266		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	1660260	495412	80	200	6193		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7518310	2165173	113	282	19161		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6075448	1979131	140	350	14137		
Perylene											
252.0939	55:57	55:58	-1	1.001	1591843	541841	80	200	6773		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5157889	1584980	59	147	26864		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	1091218	342666	59	147	5808		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	4988169	1377812	40	100	34445		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	1098846	313712	43	107	7296		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6056294	1746025	51	127	34236		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	1535539	424373	59	147	7193		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4_00002

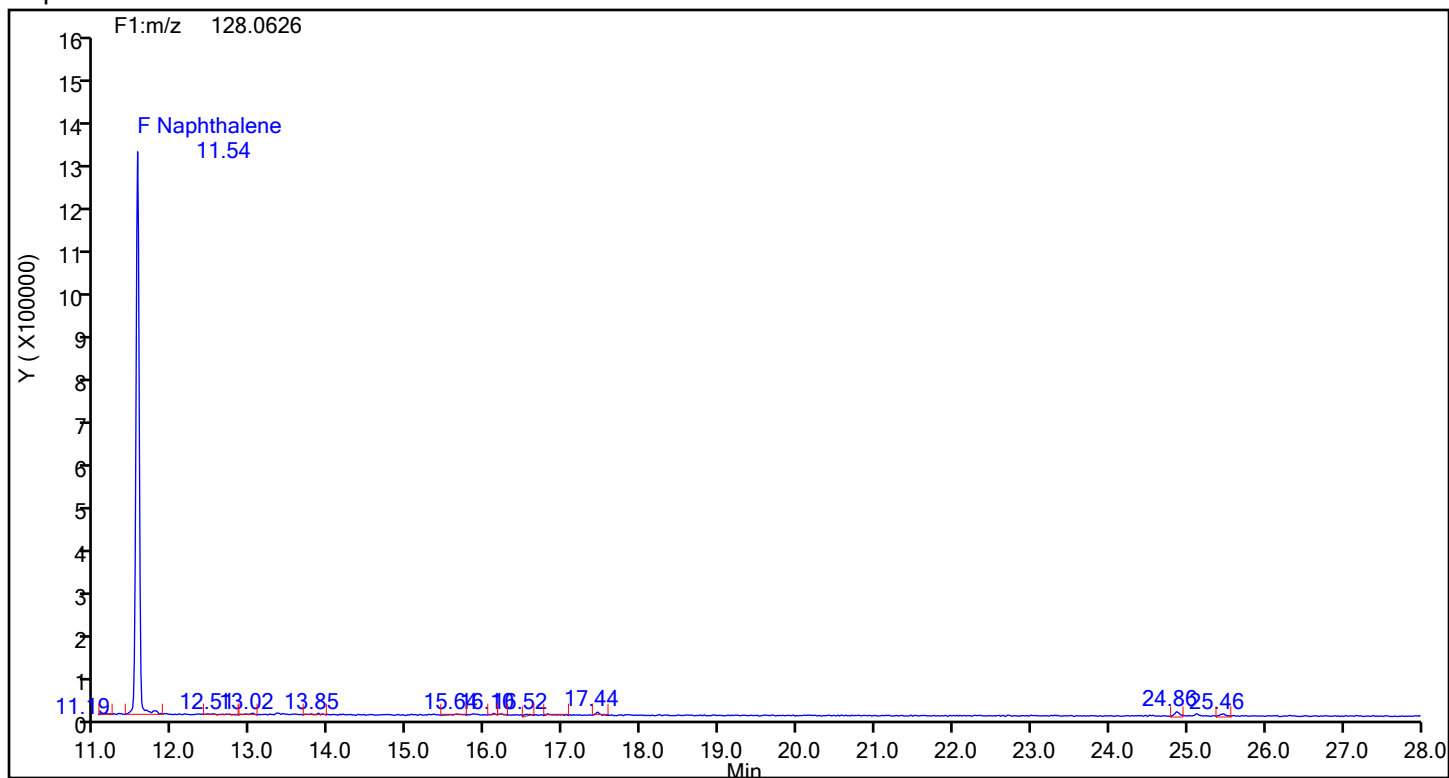
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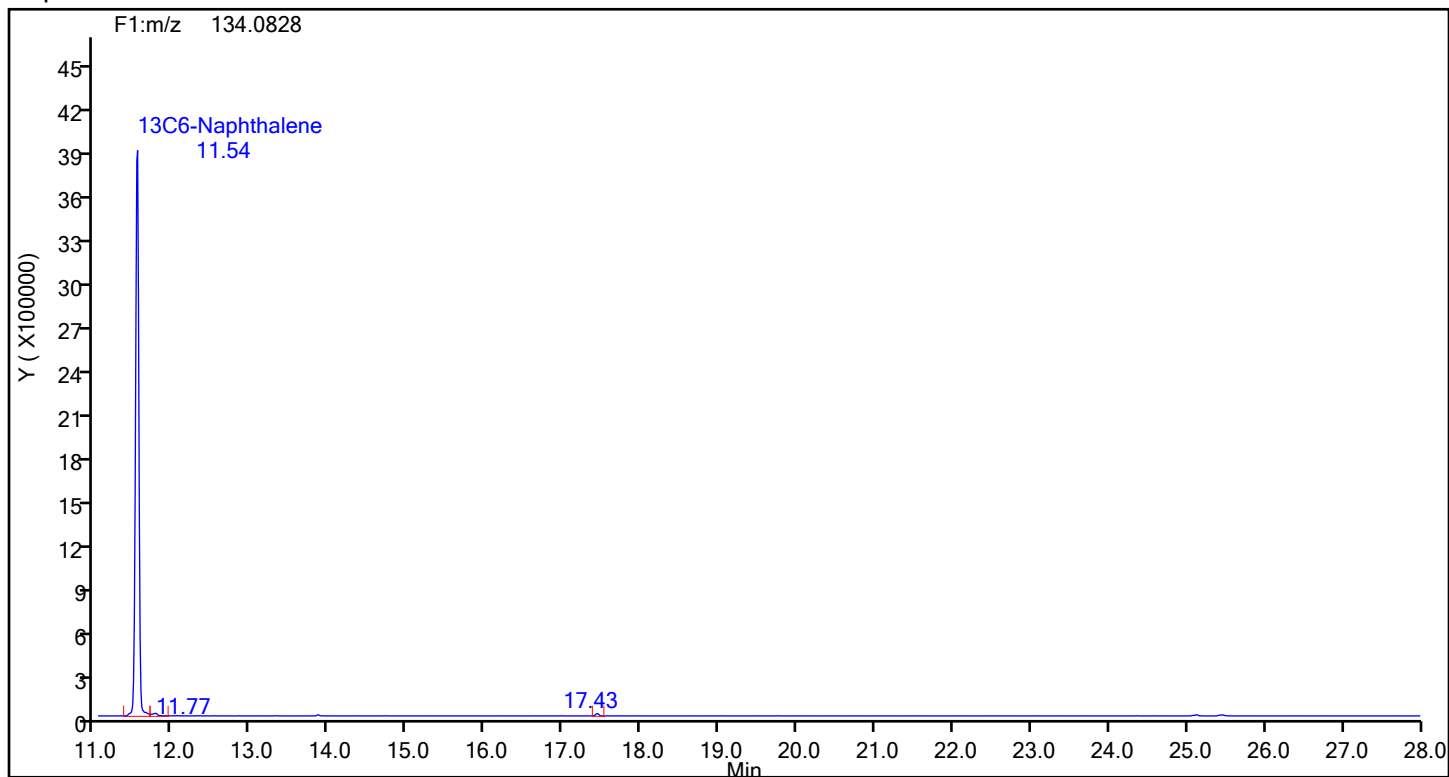
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



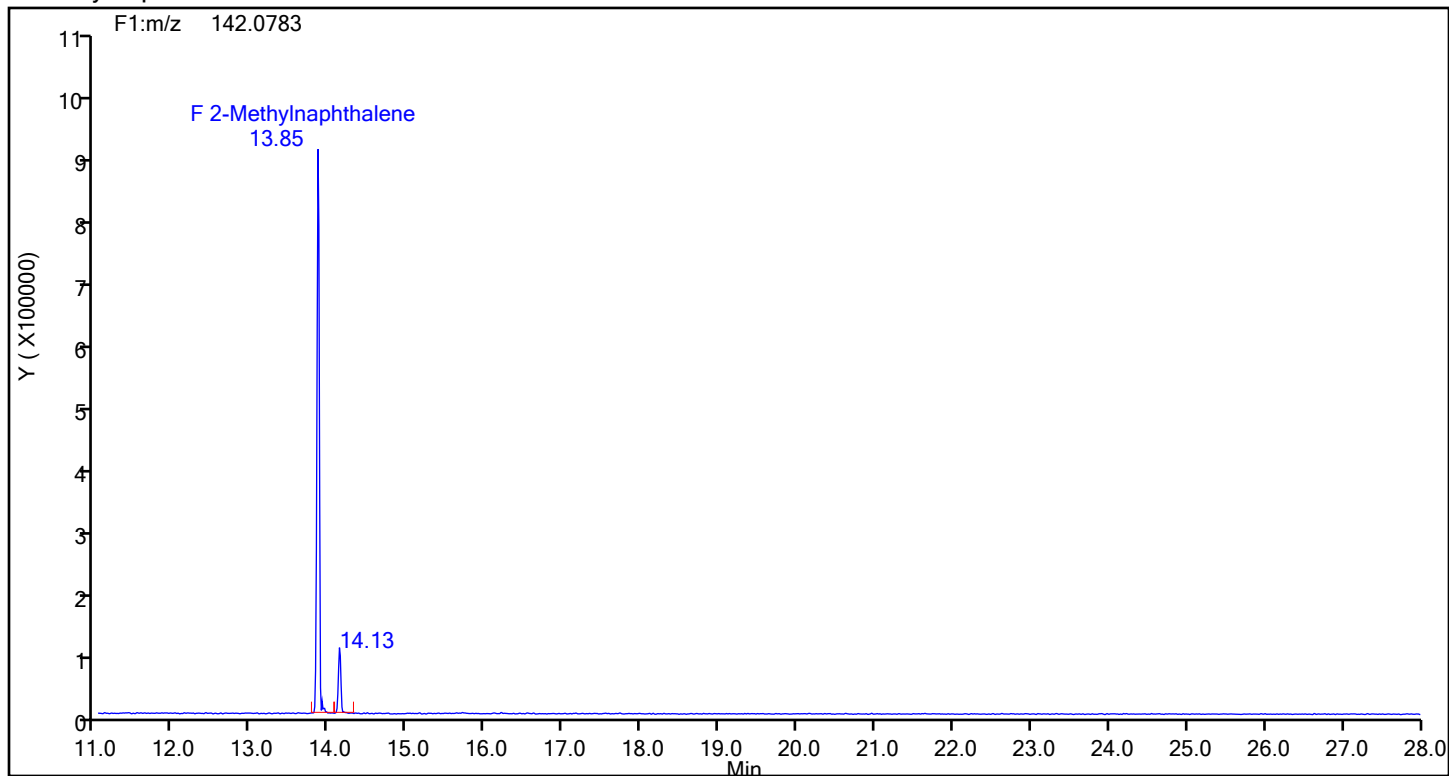
Naphthalene Standards



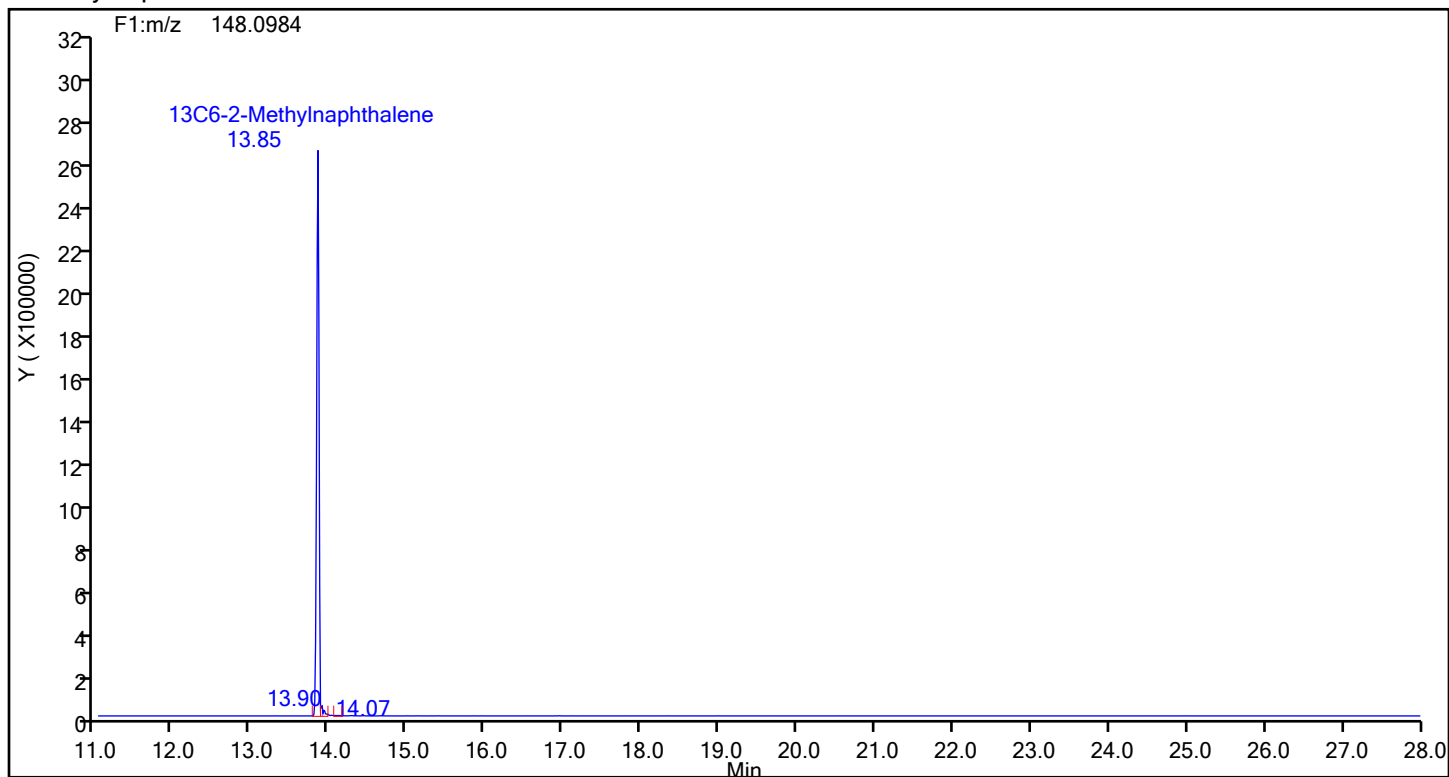
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



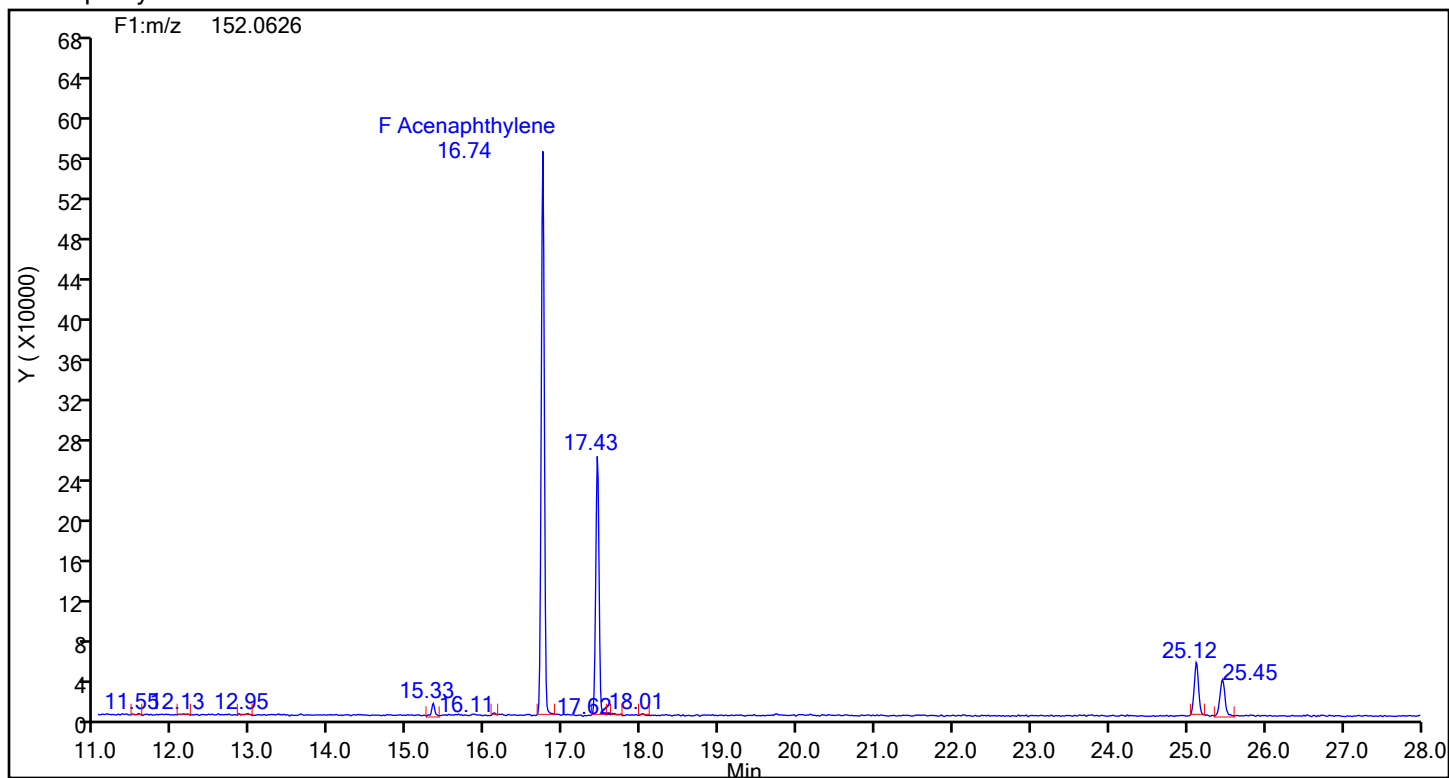
2-Methylnaphthalene Standards



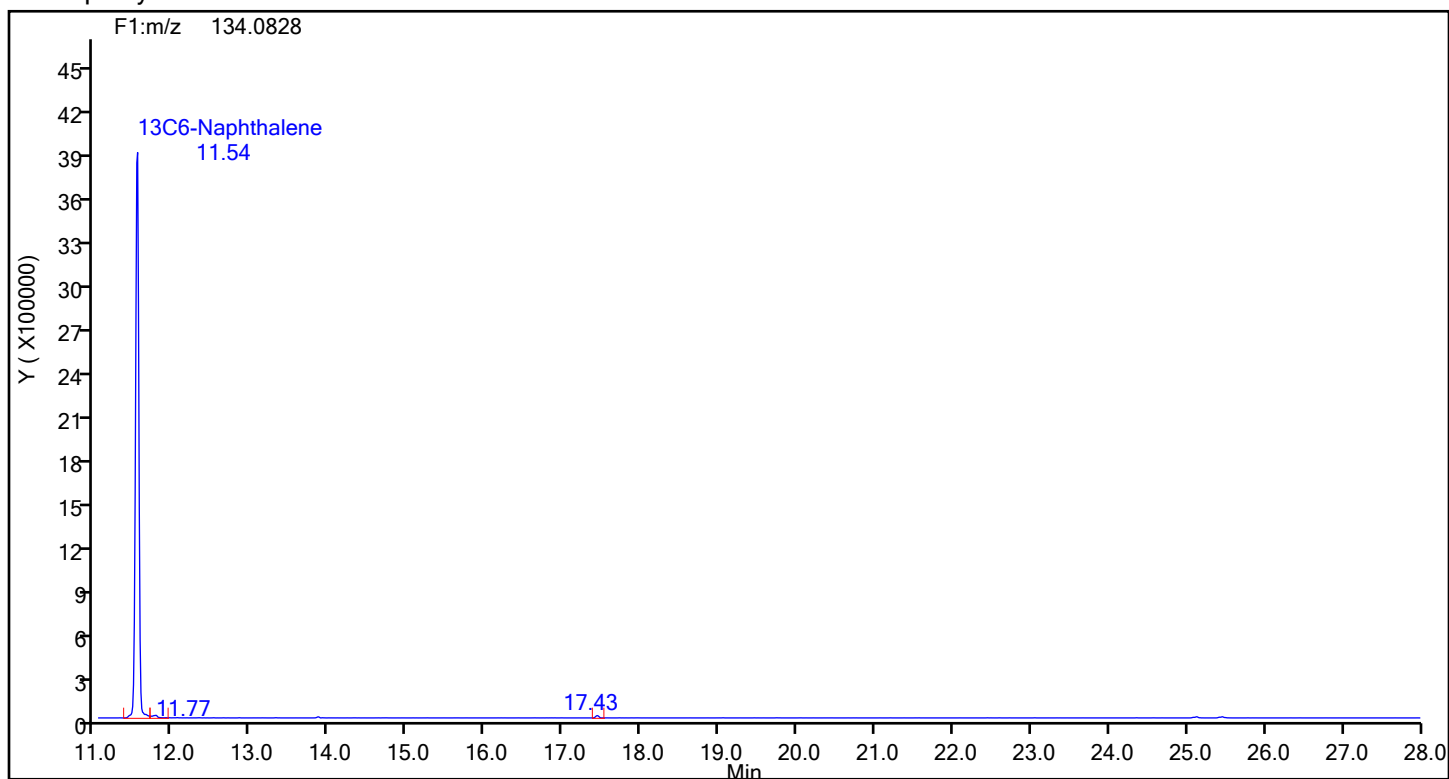
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



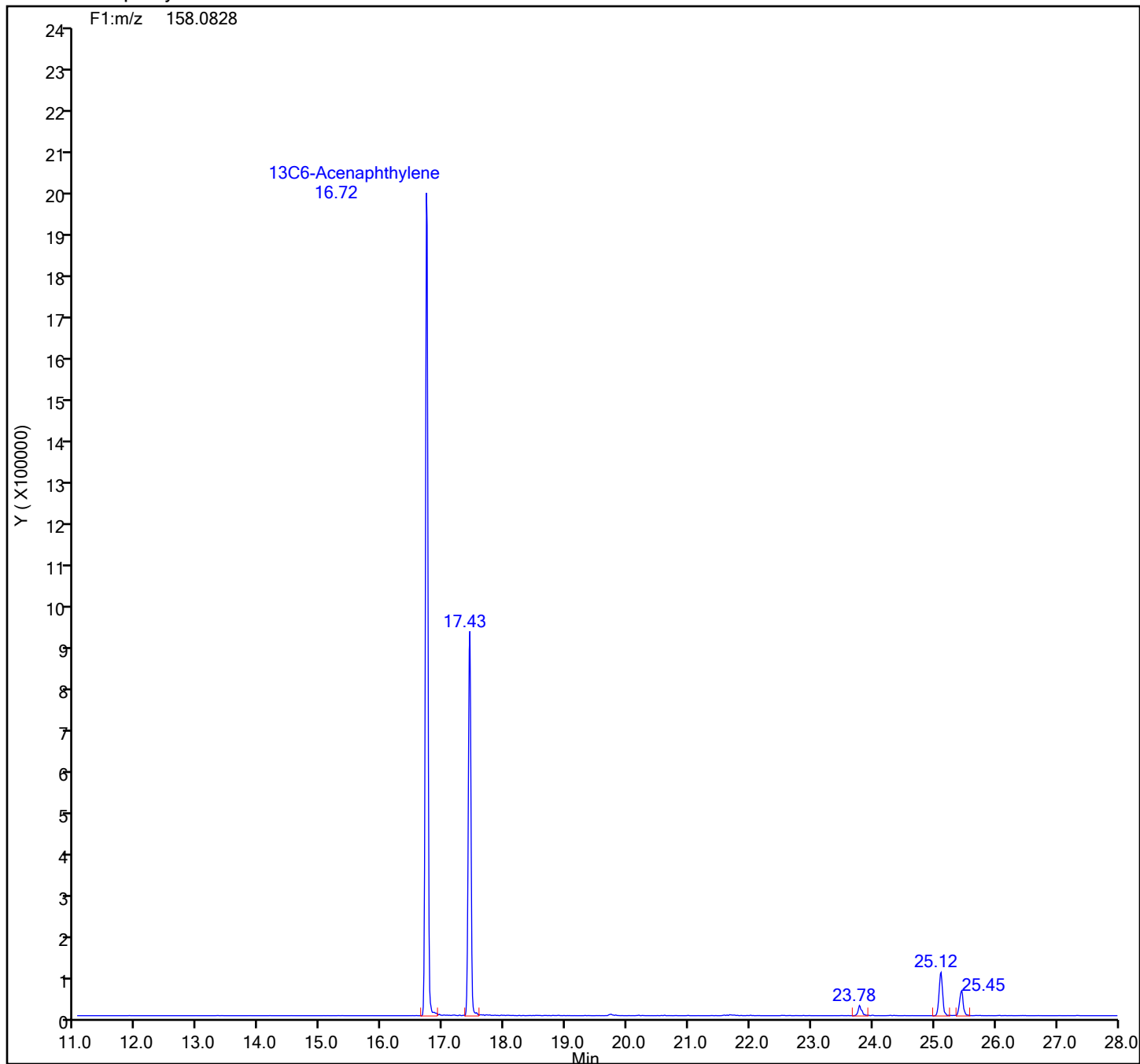
Acenaphthylene Standards



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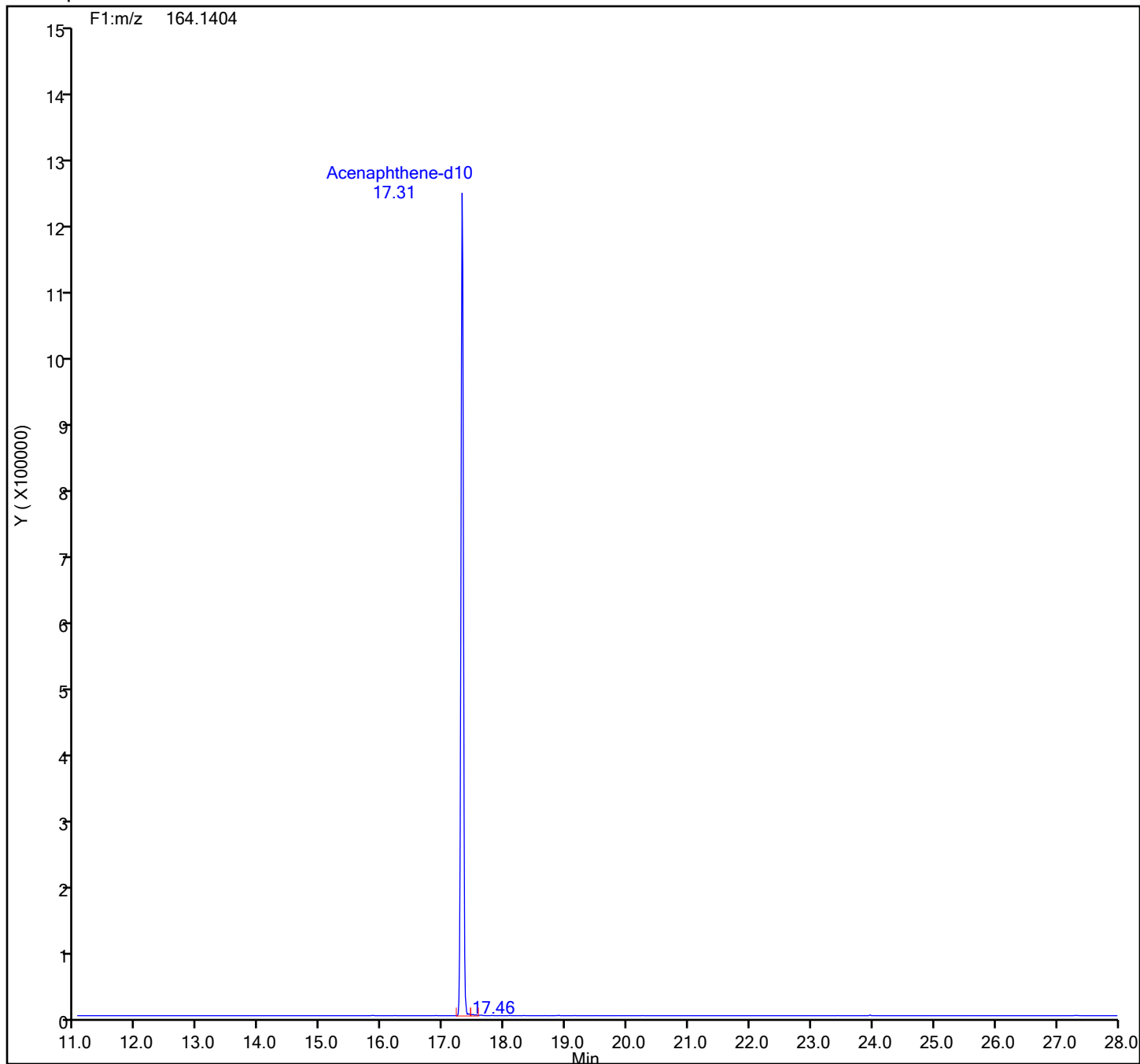
13C6-Acenaphthylene Standards



Eurofins Knoxville

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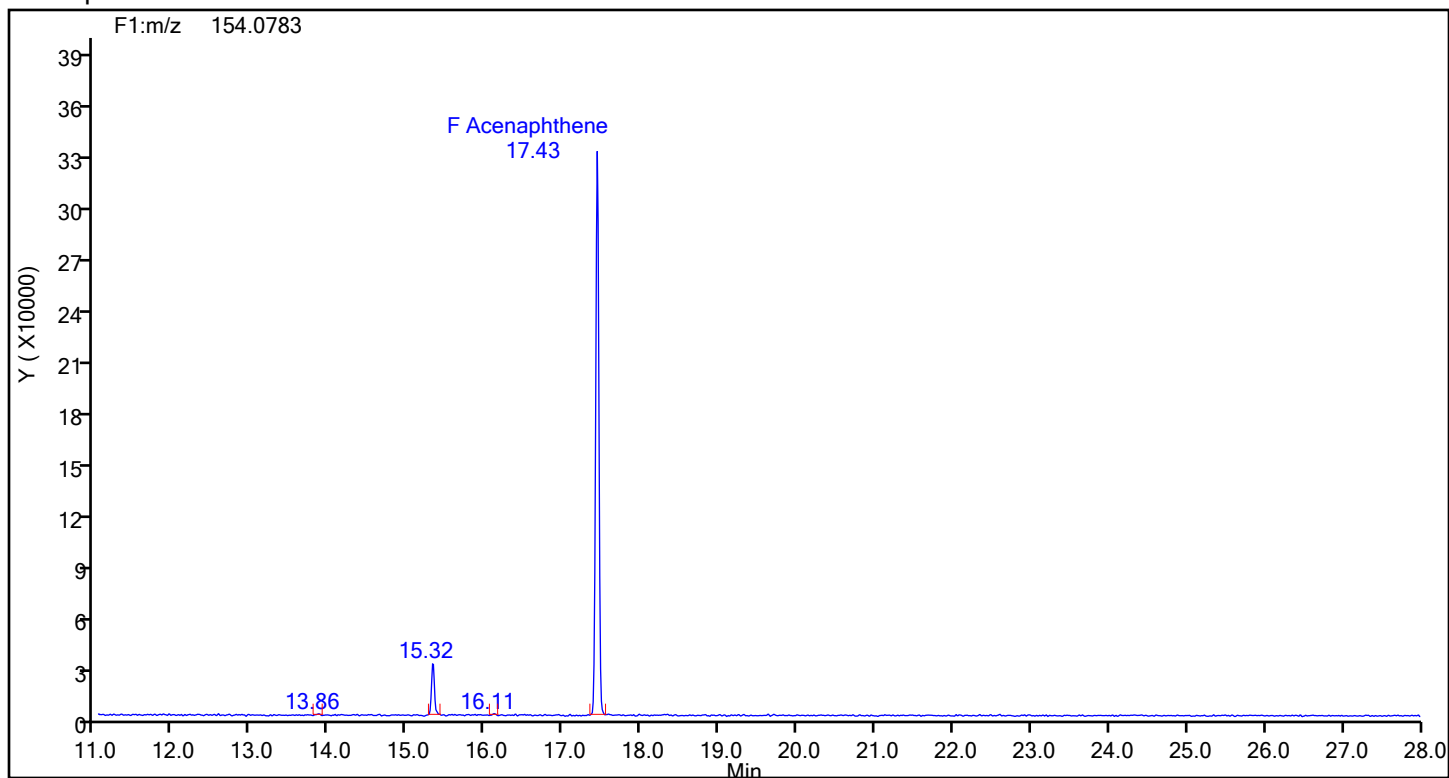
Acenaphthene-d10 Standards



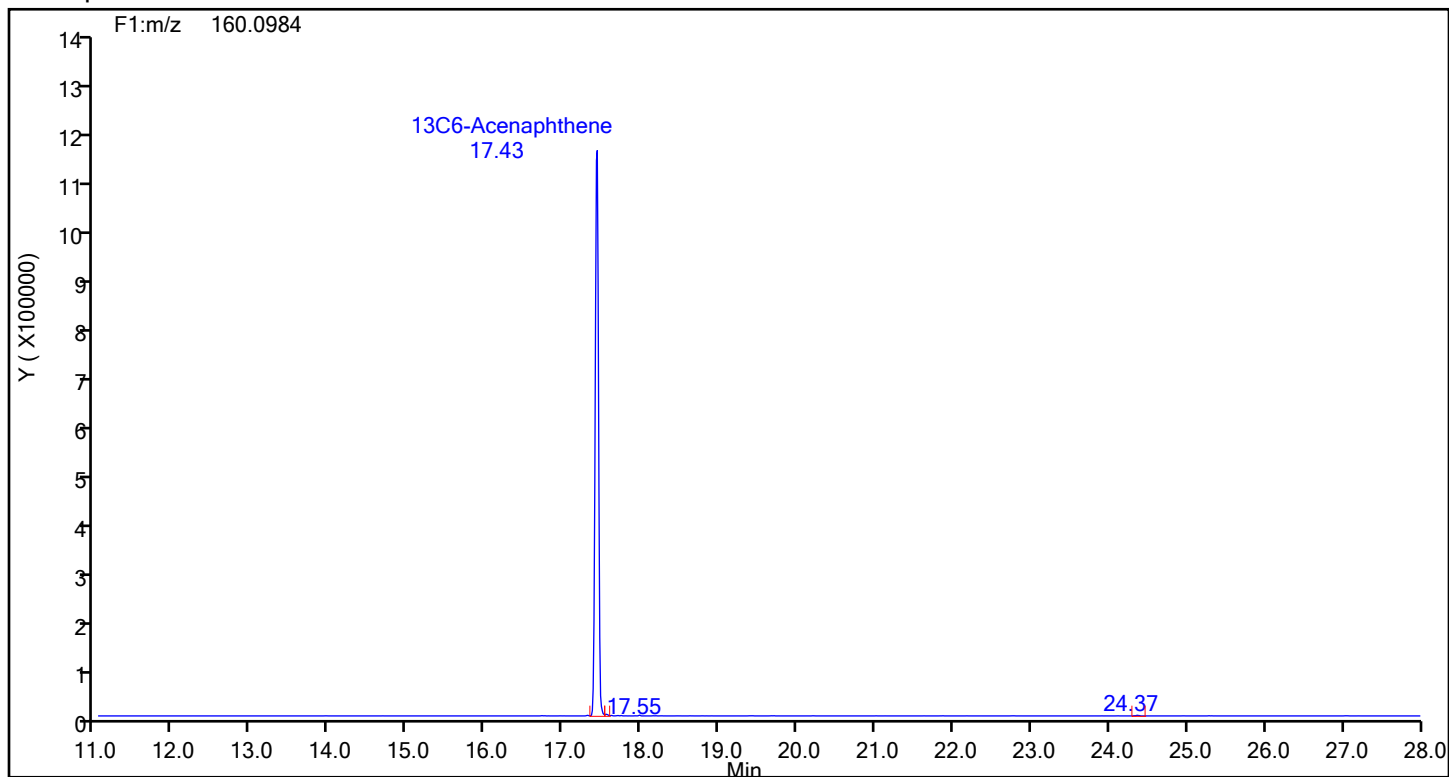
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Acenaphthene



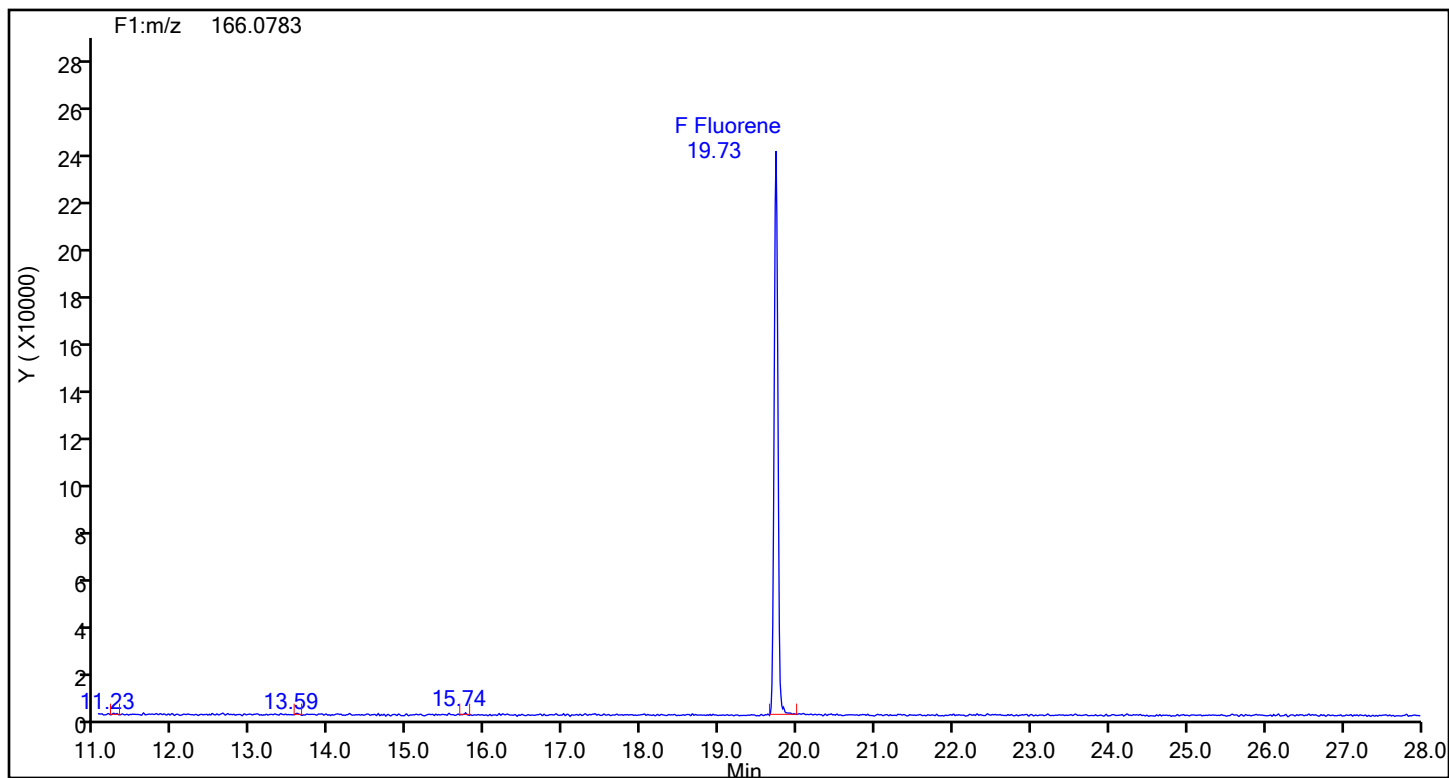
Acenaphthene Standards



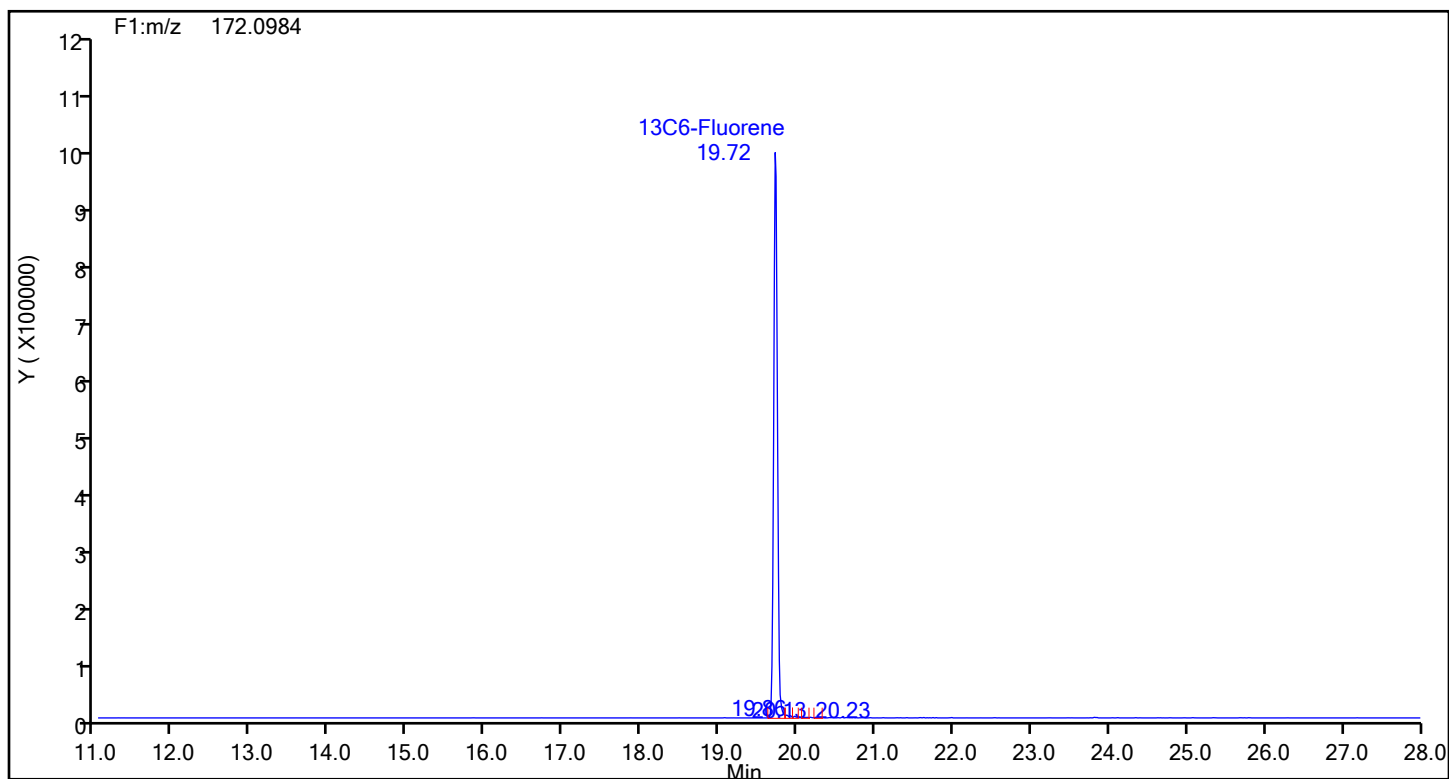
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Fluorene

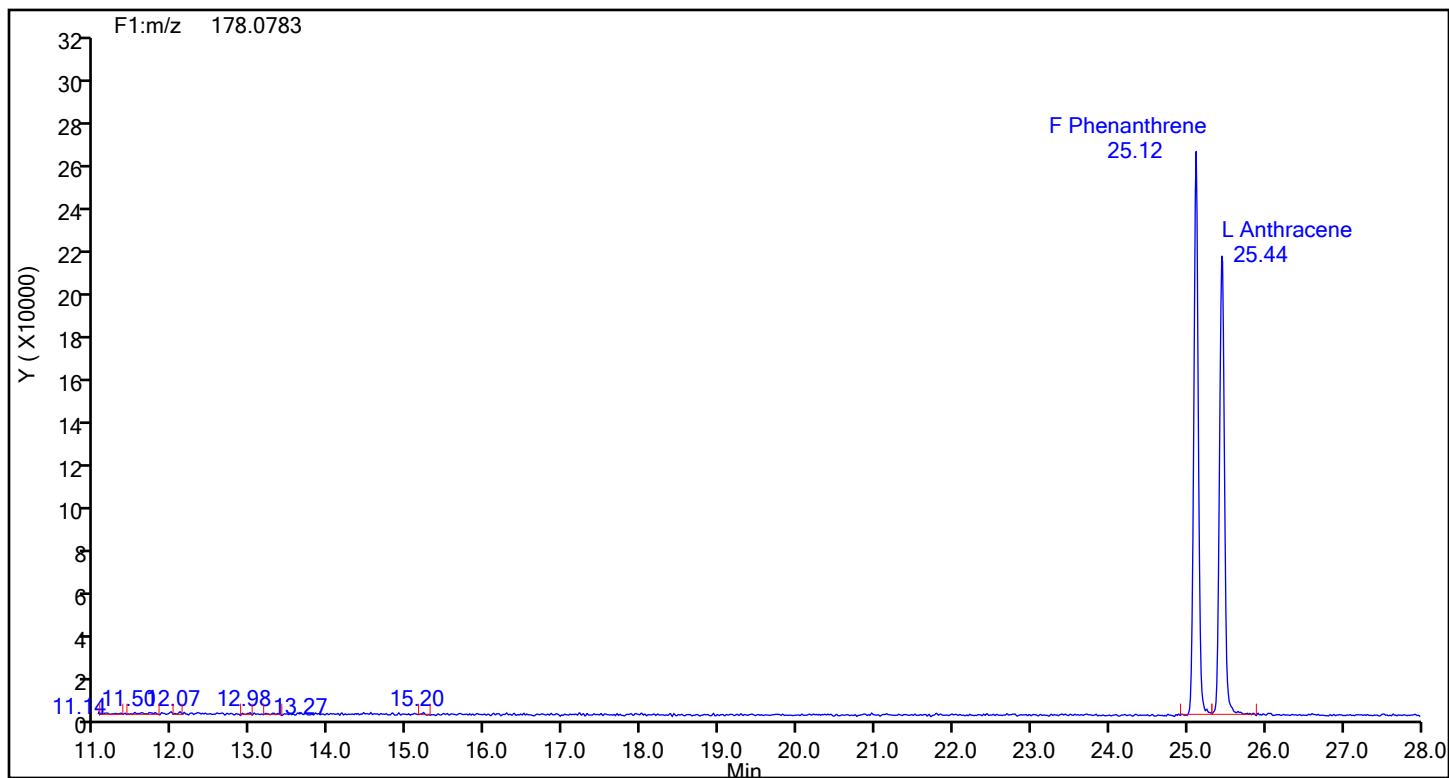


Fluorene Standards

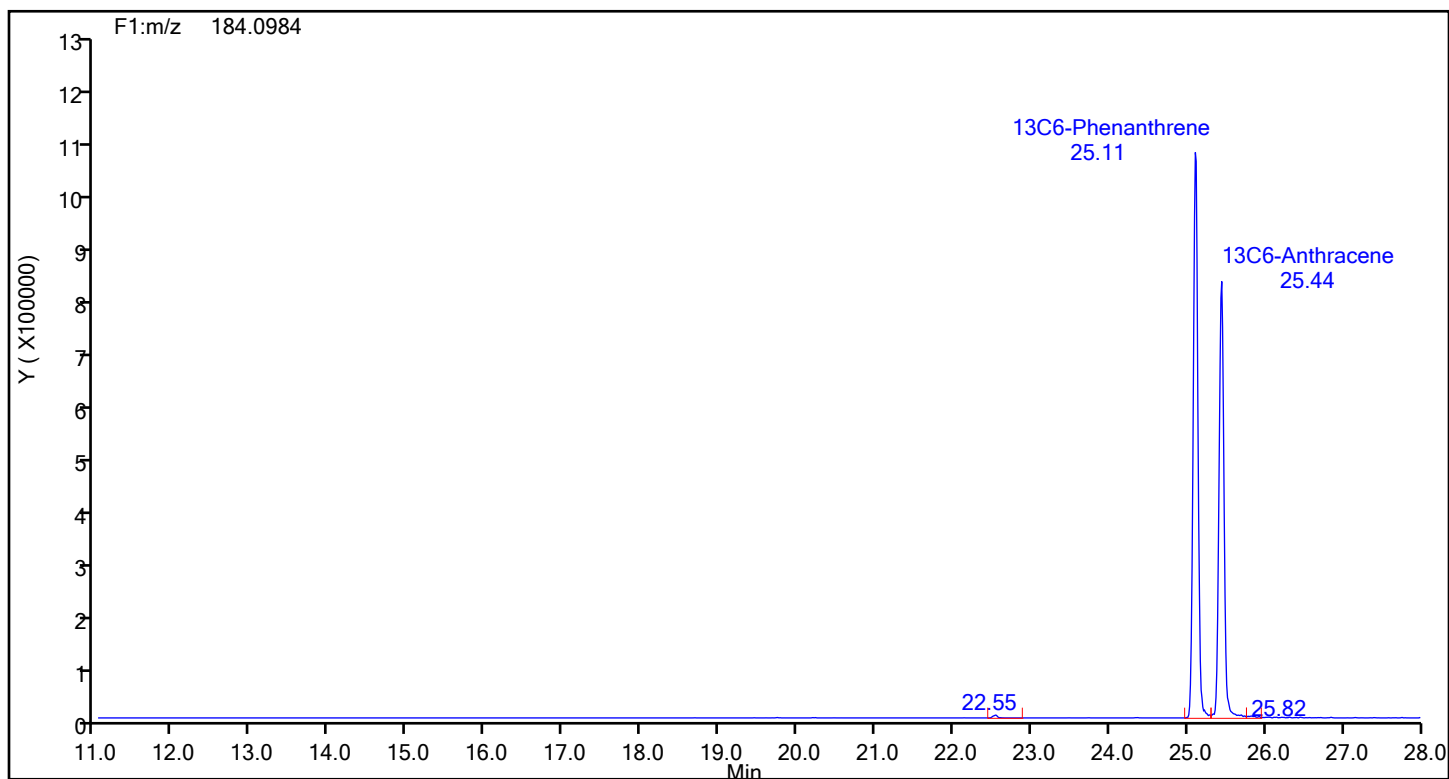


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Phenanthrene

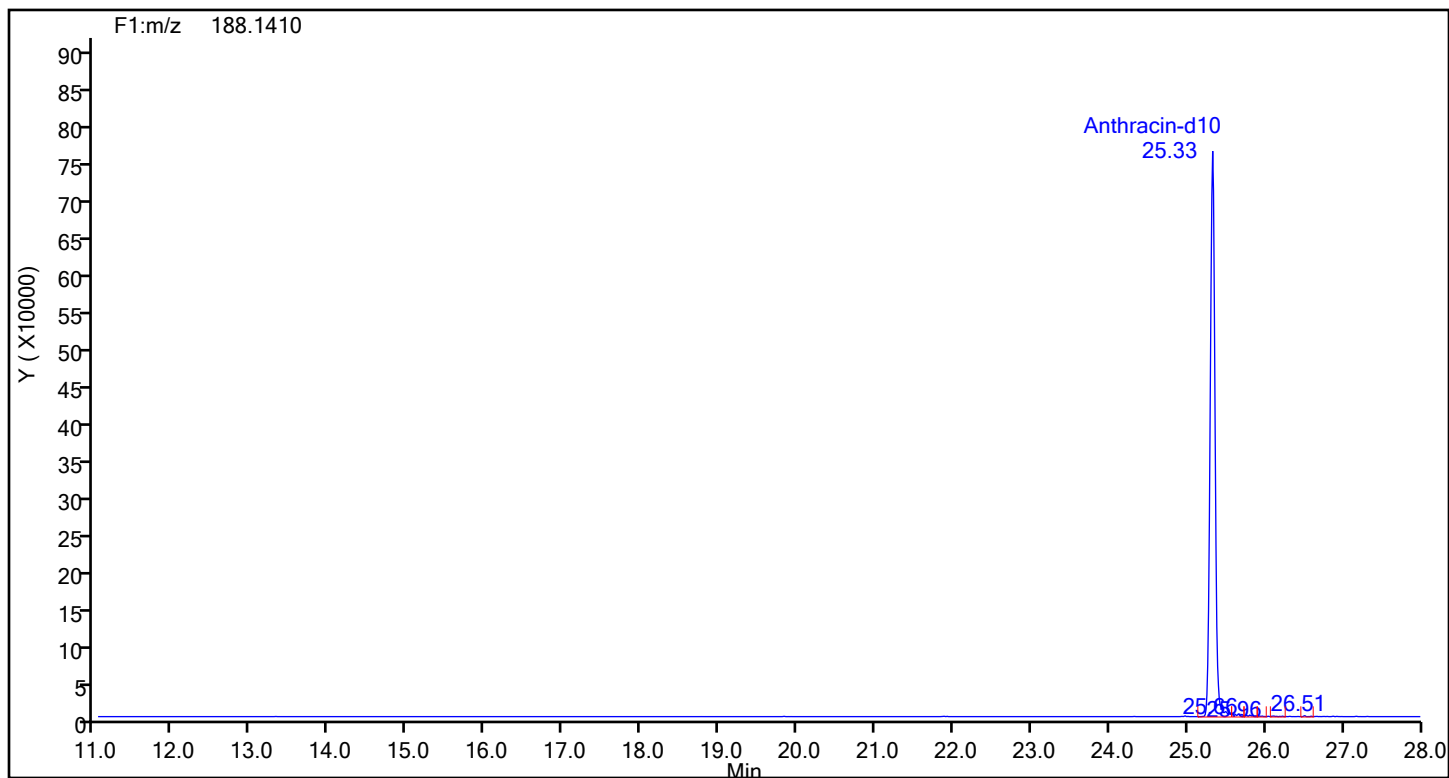


Phenanthrene Standards

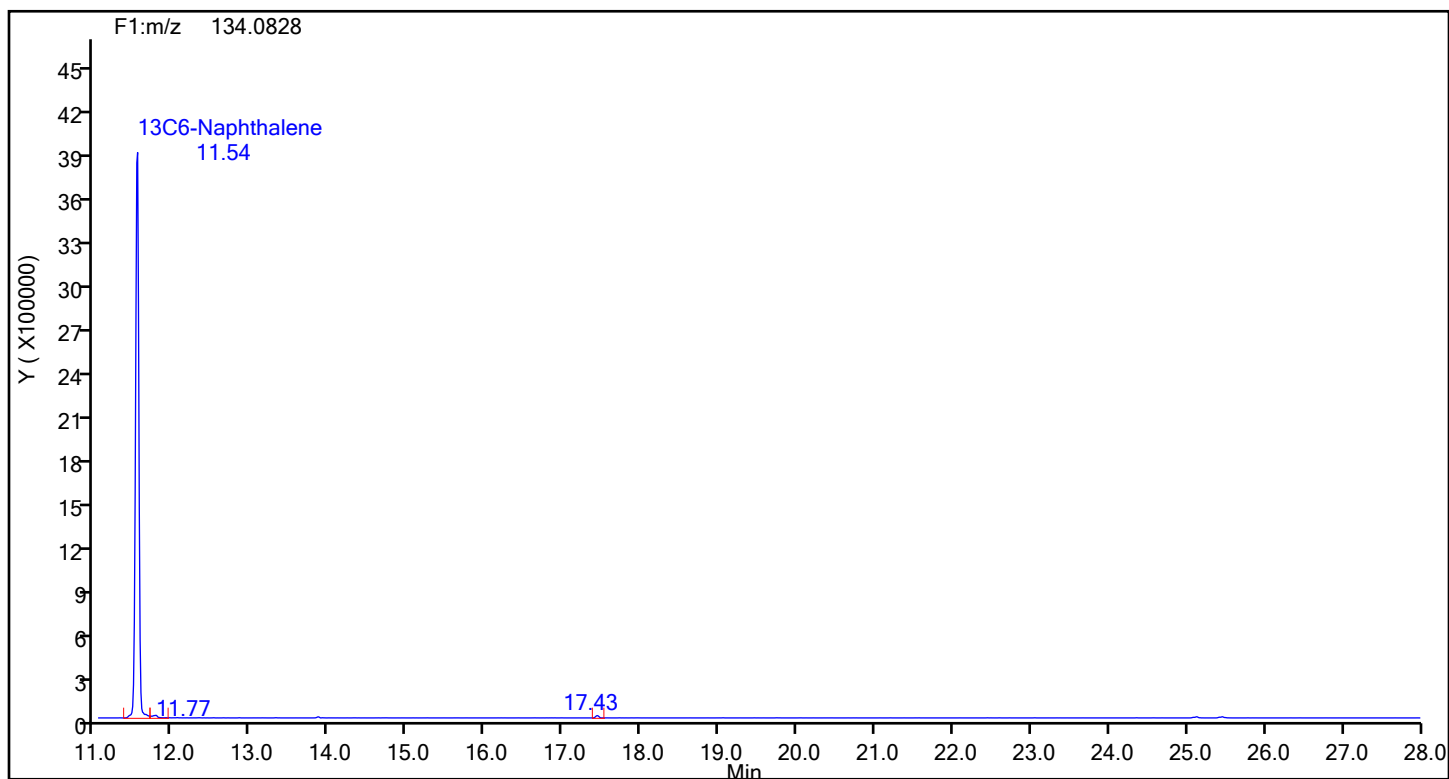


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Anthracin-d10

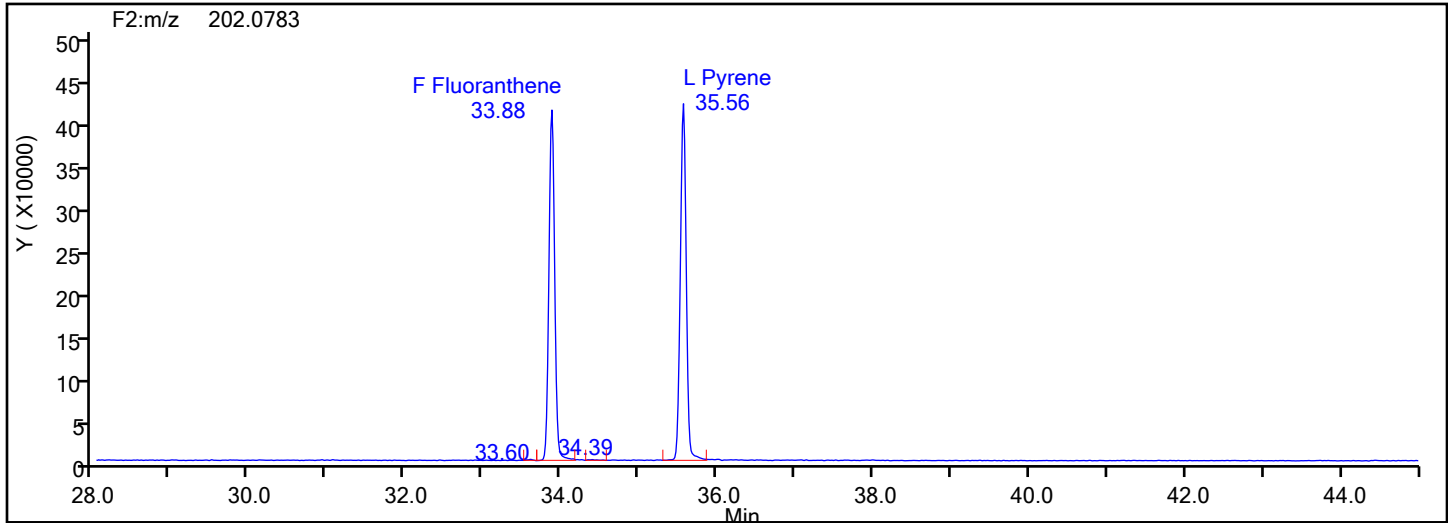


Anthracin-d10 Standards

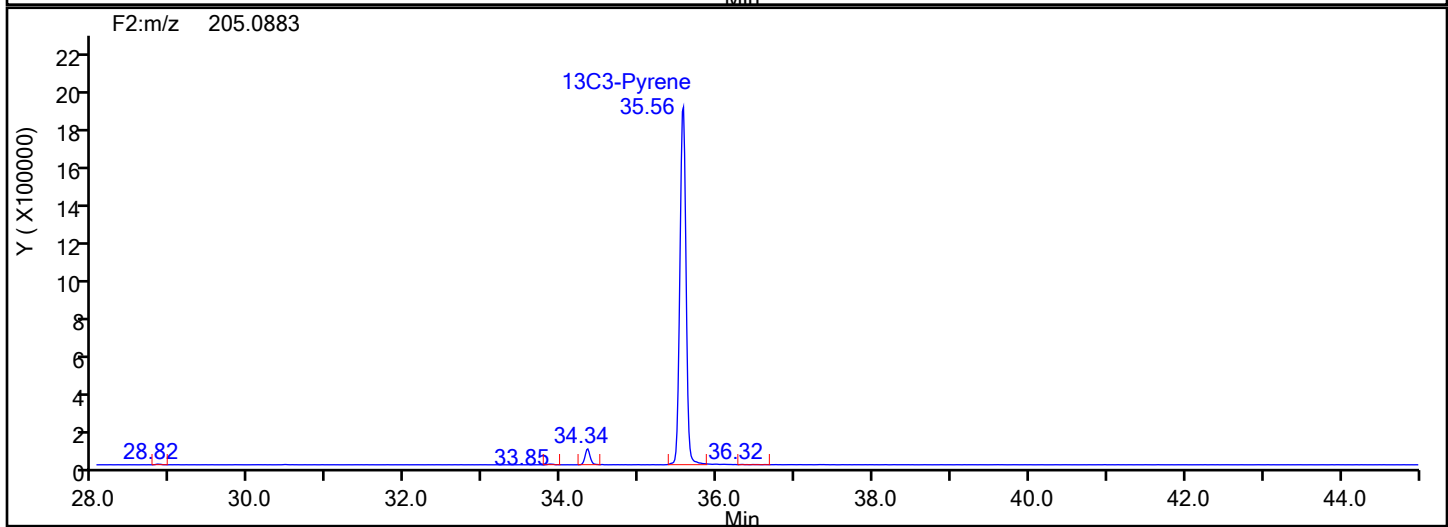
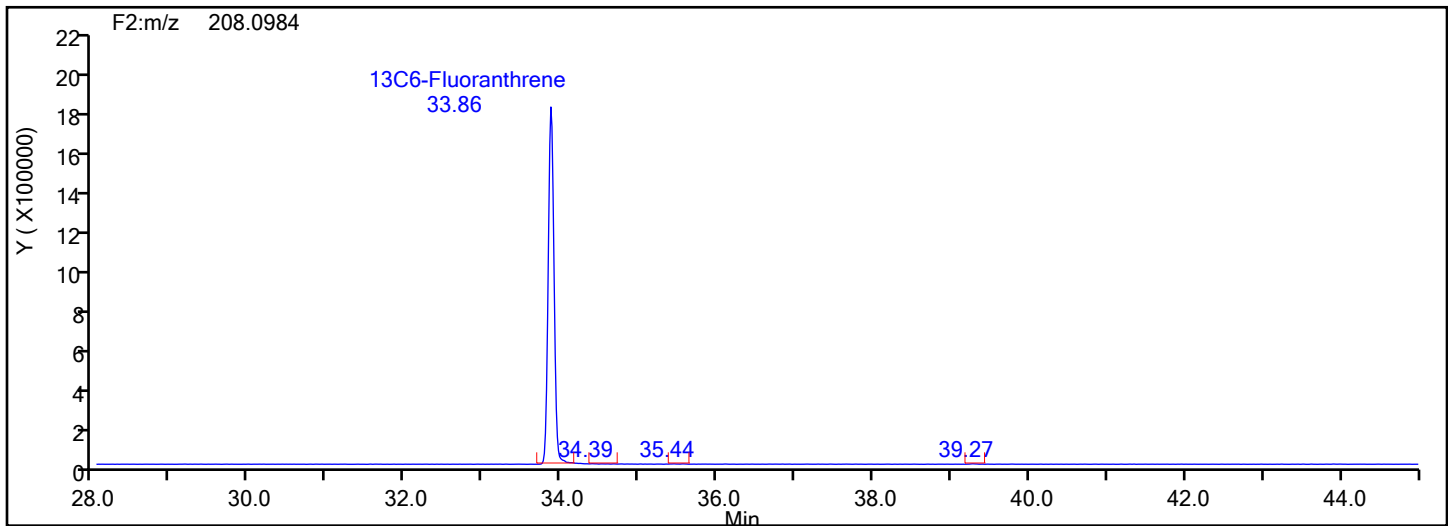


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Fluoranthene



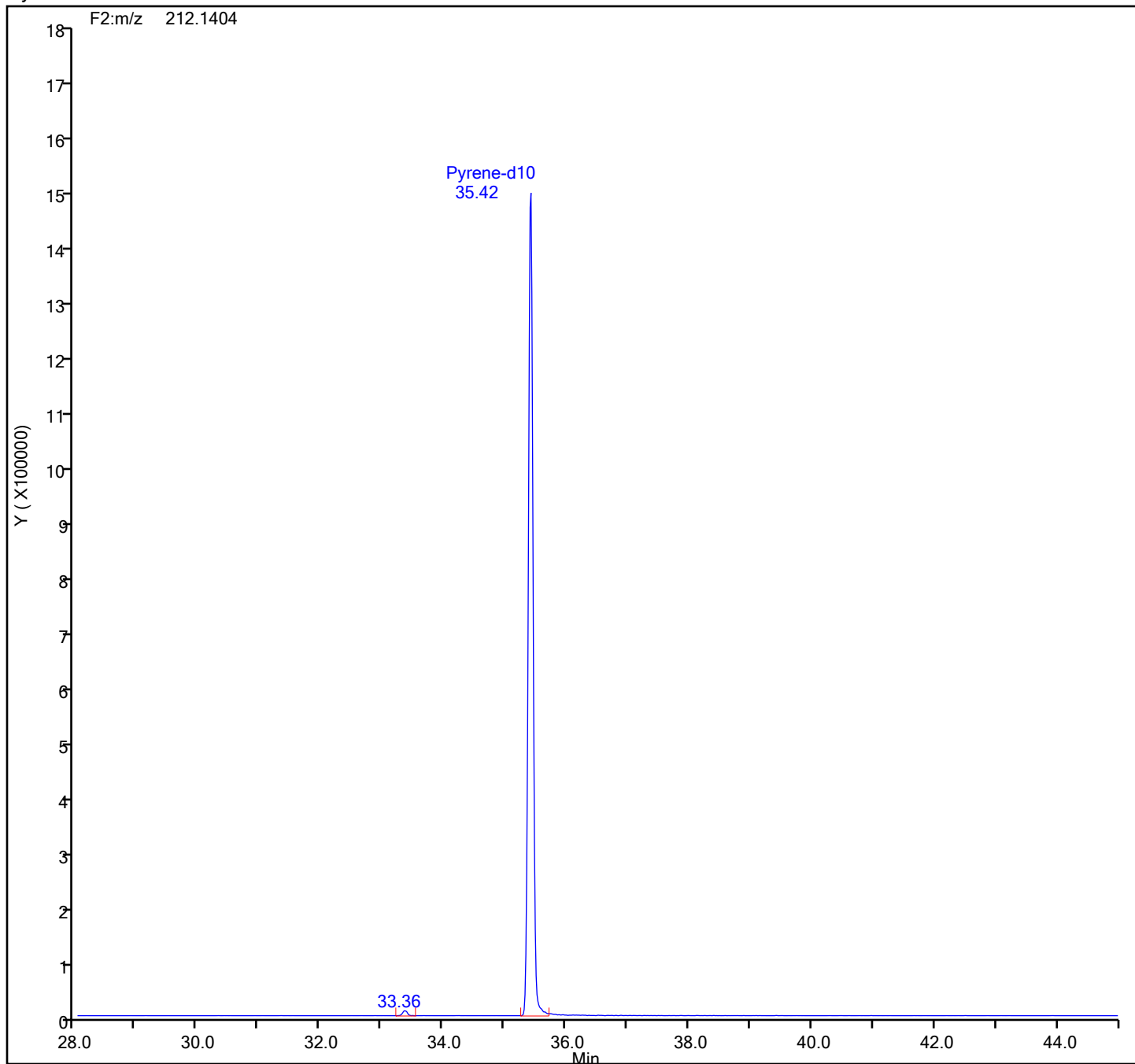
Fluoranthene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

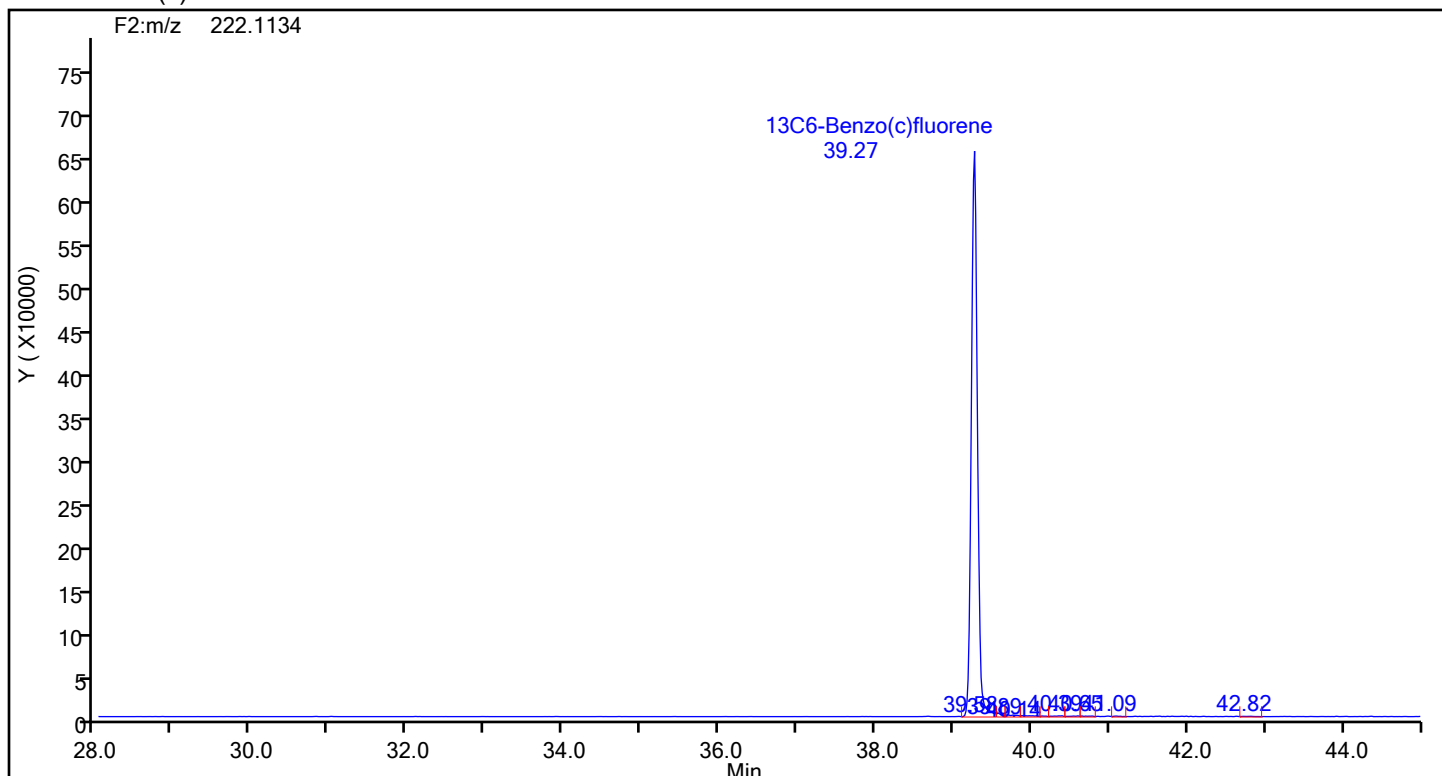
Pyrene-d10 Standards



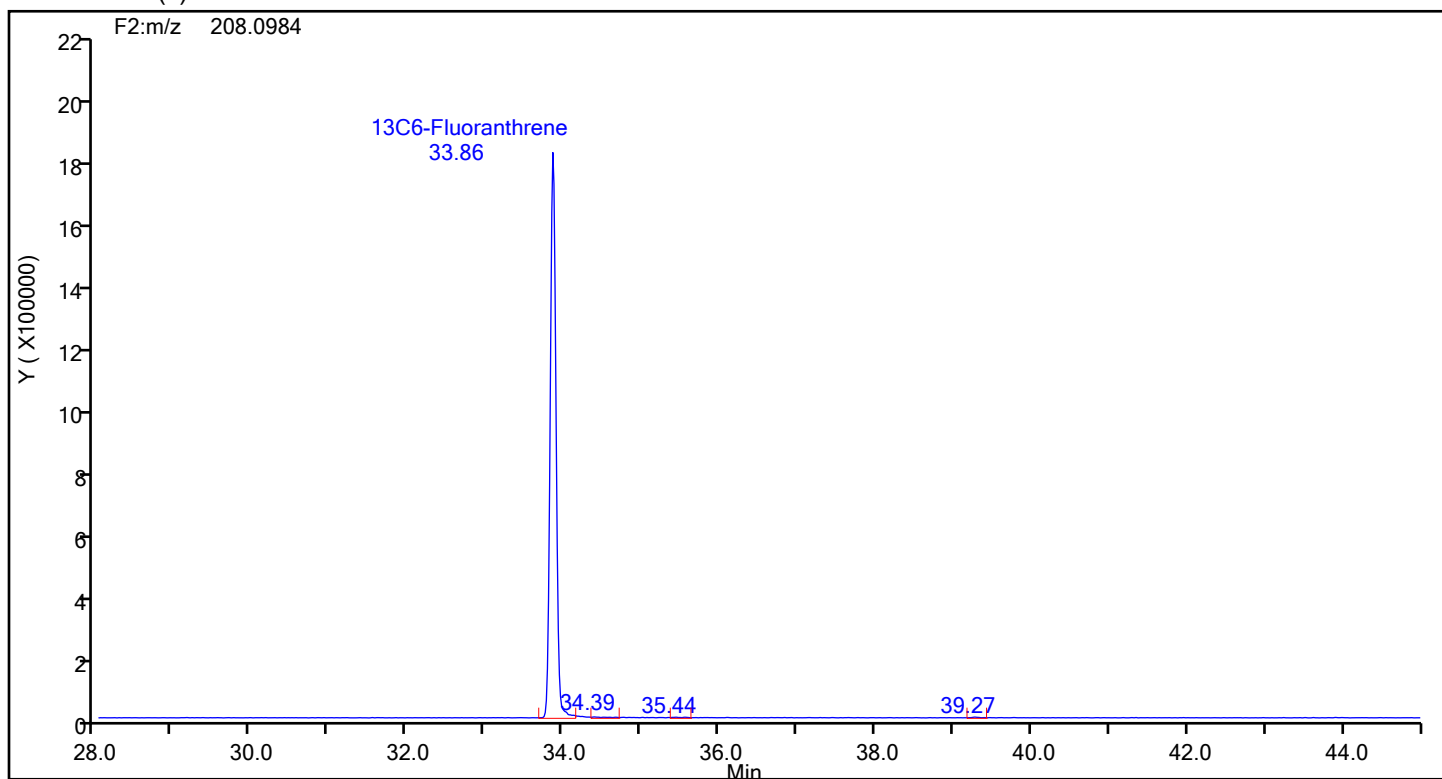
Eurofins Knoxville

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Client ID:			
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13C6-Benzo(c)fluorene			

13C6-Benzo(c)fluorene



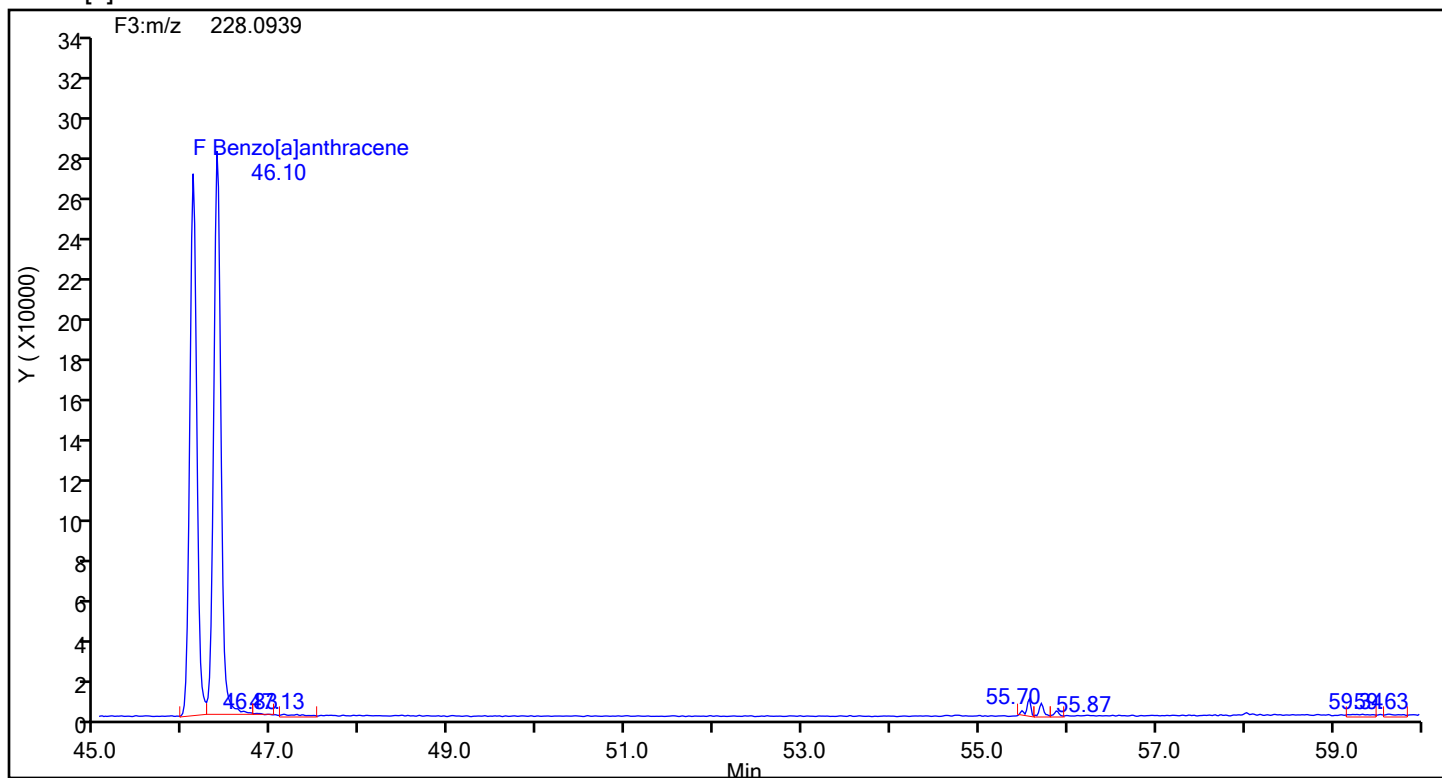
13C6-Benzo(c)fluorene Standards



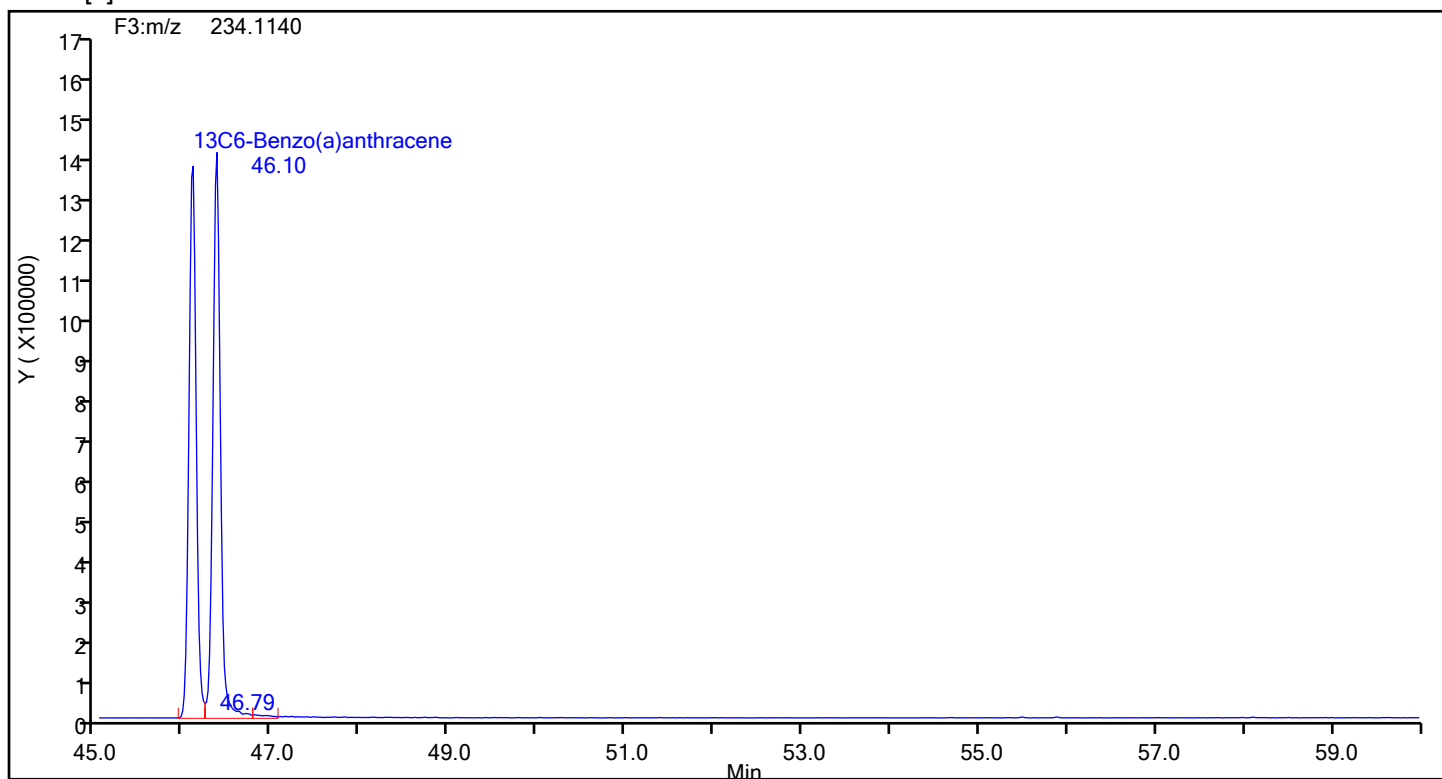
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Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



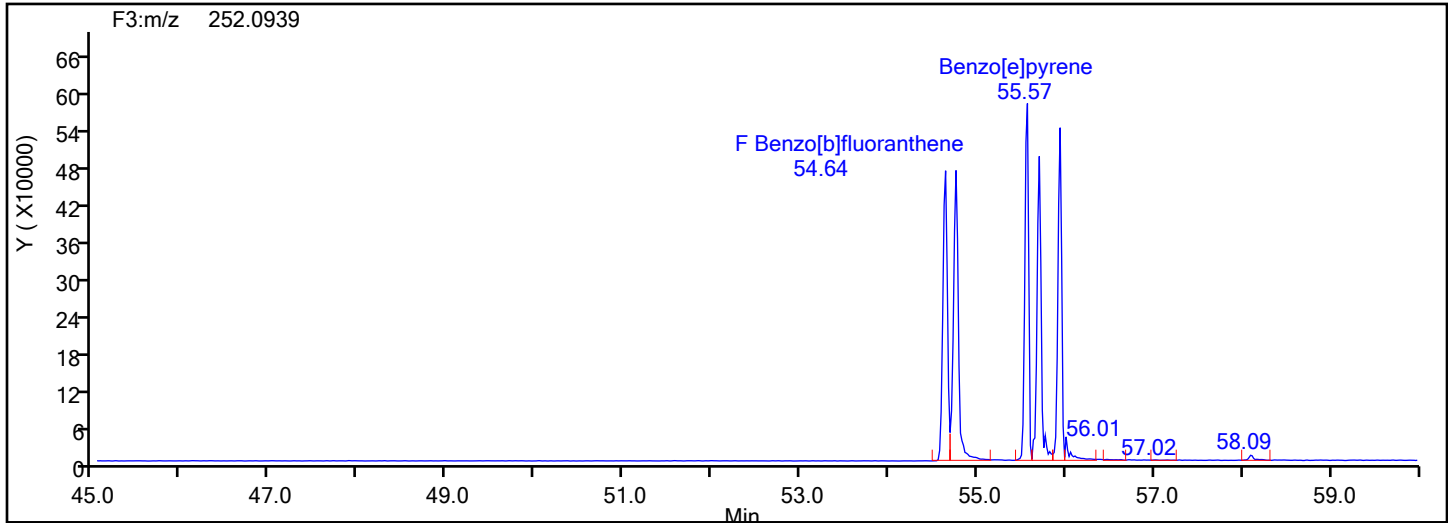
Benzo[a]anthracene Standards



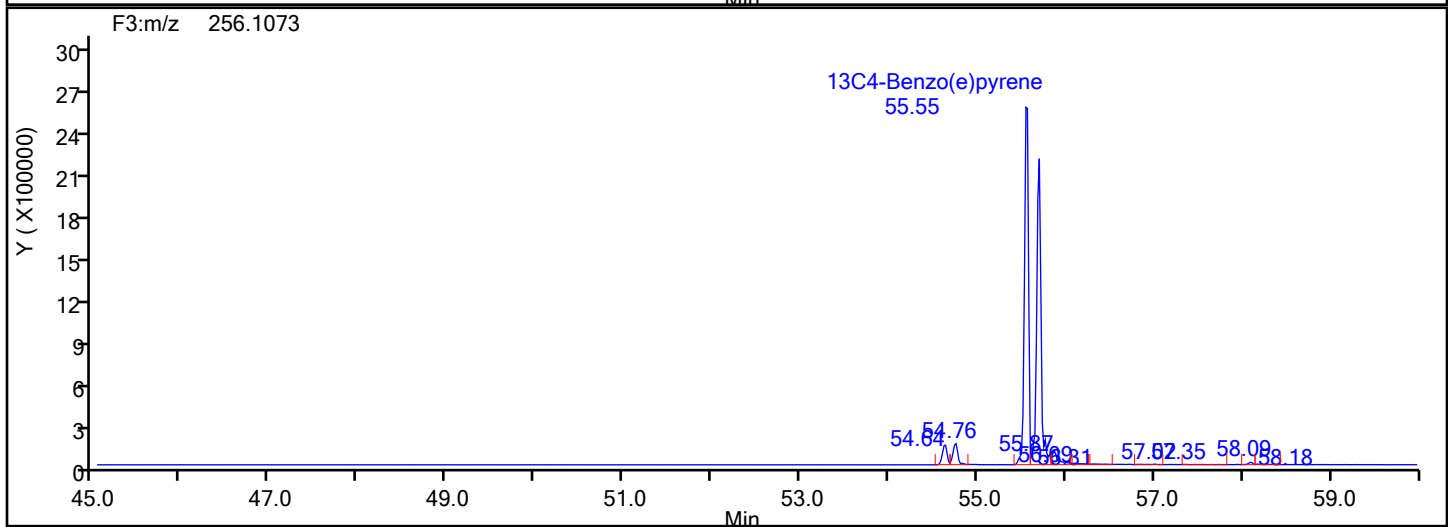
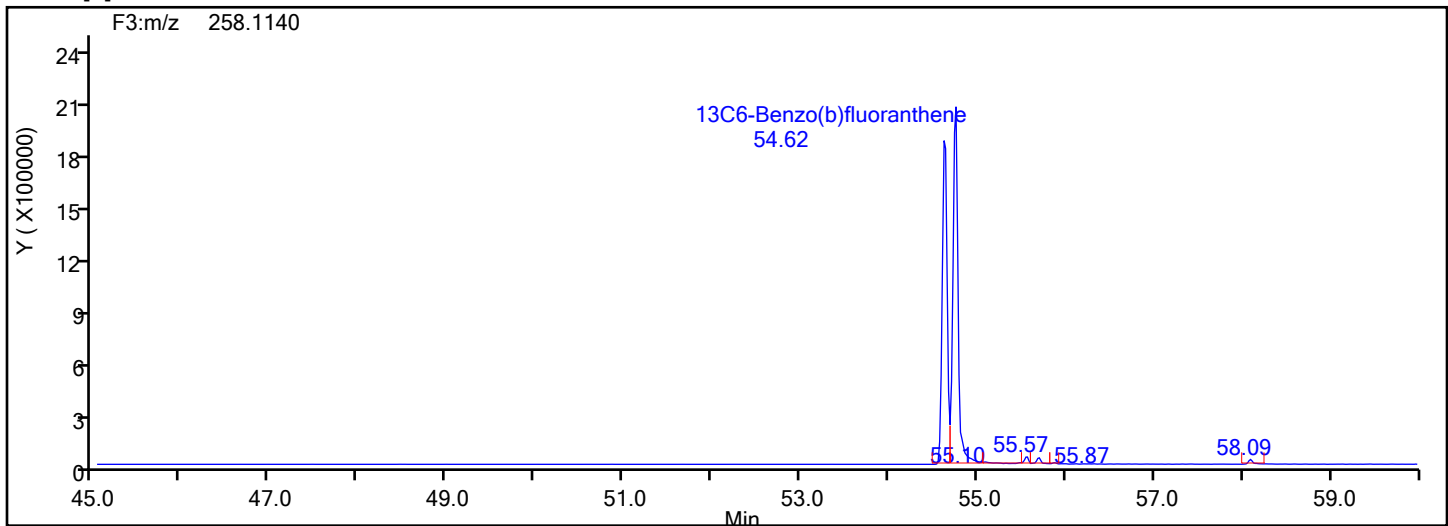
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



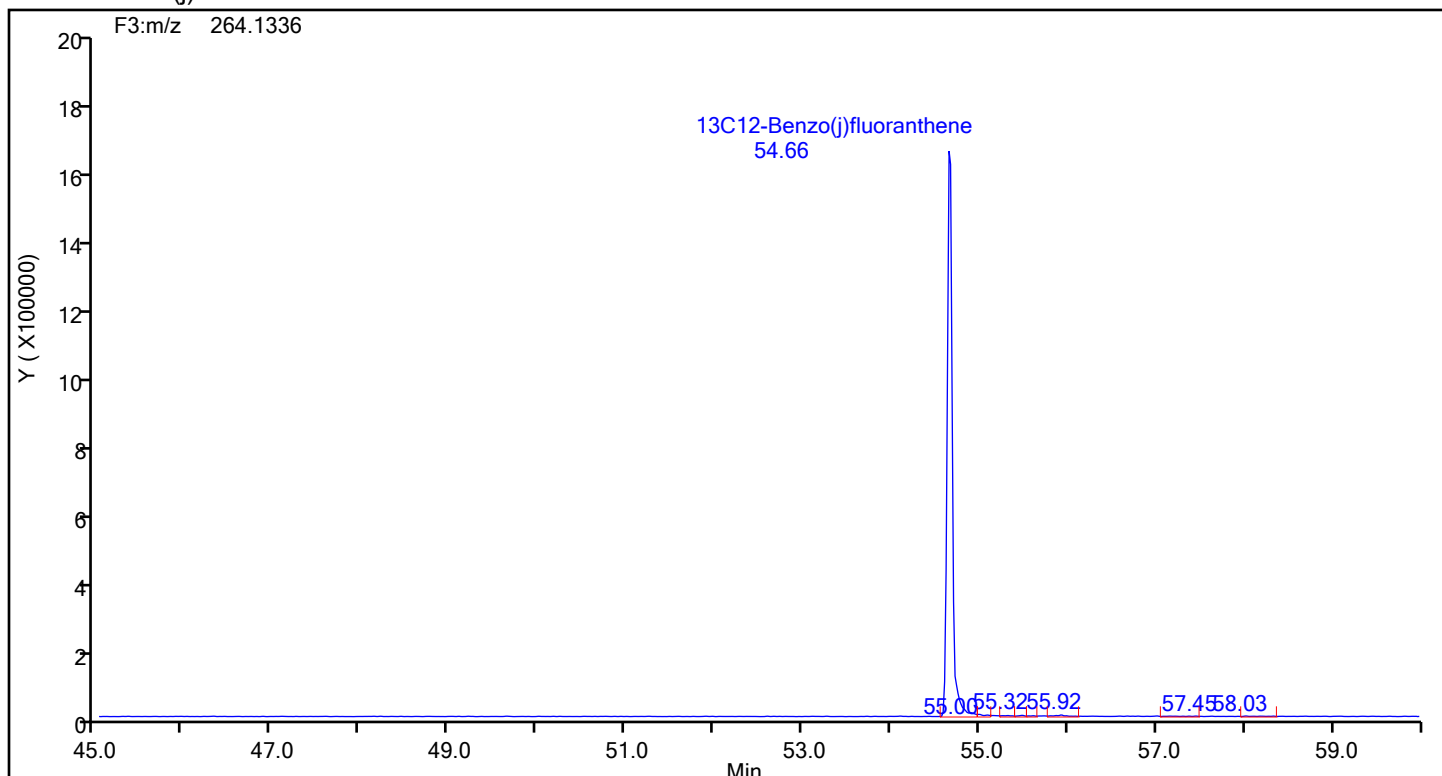
Benzo[b]fluoranthene Standards



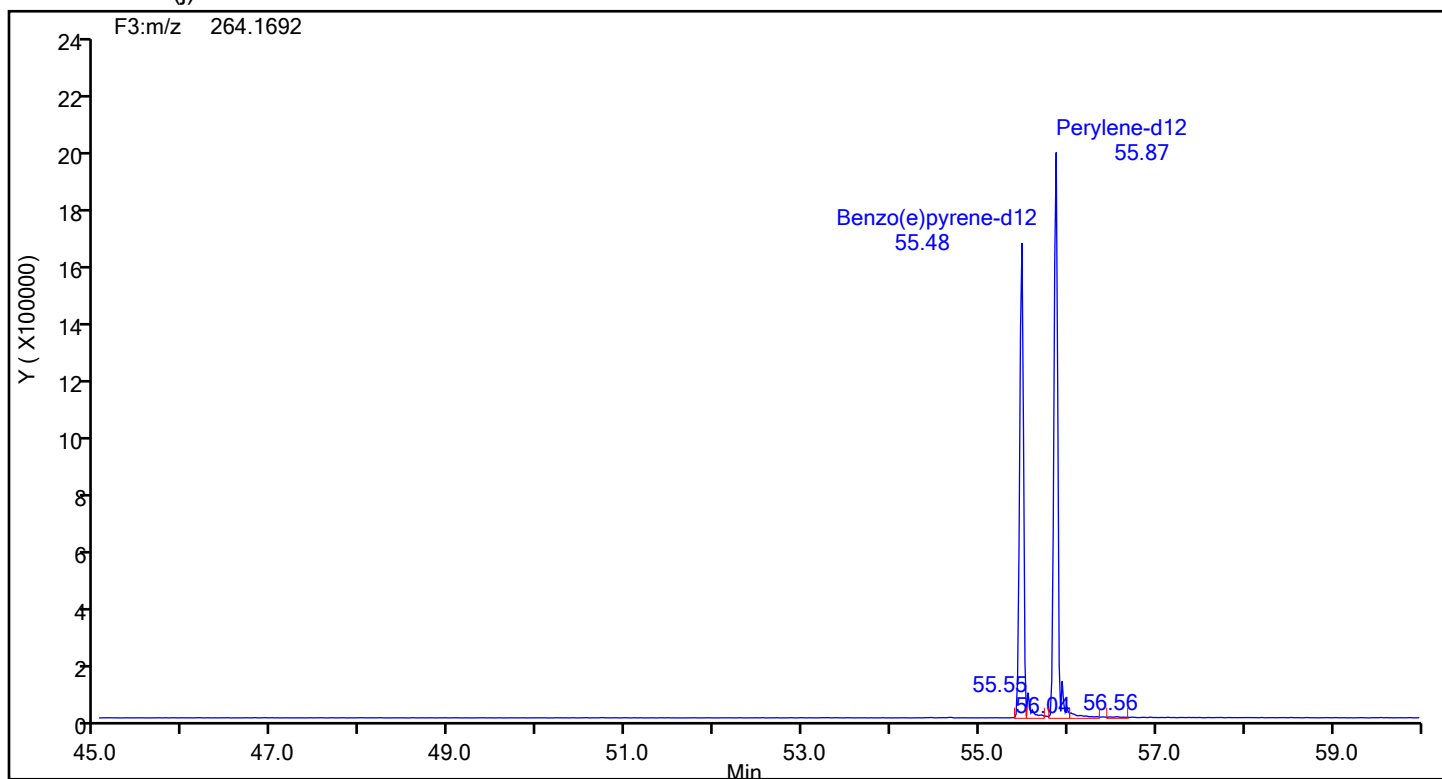
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



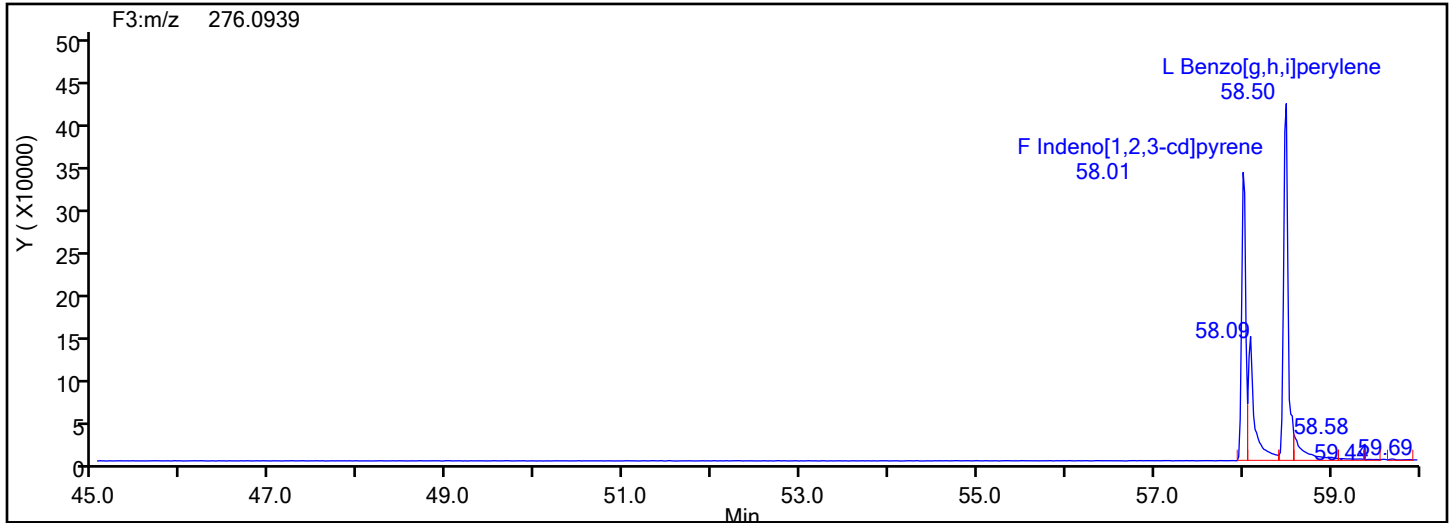
13C12-Benzo(j)fluoranthene Standards



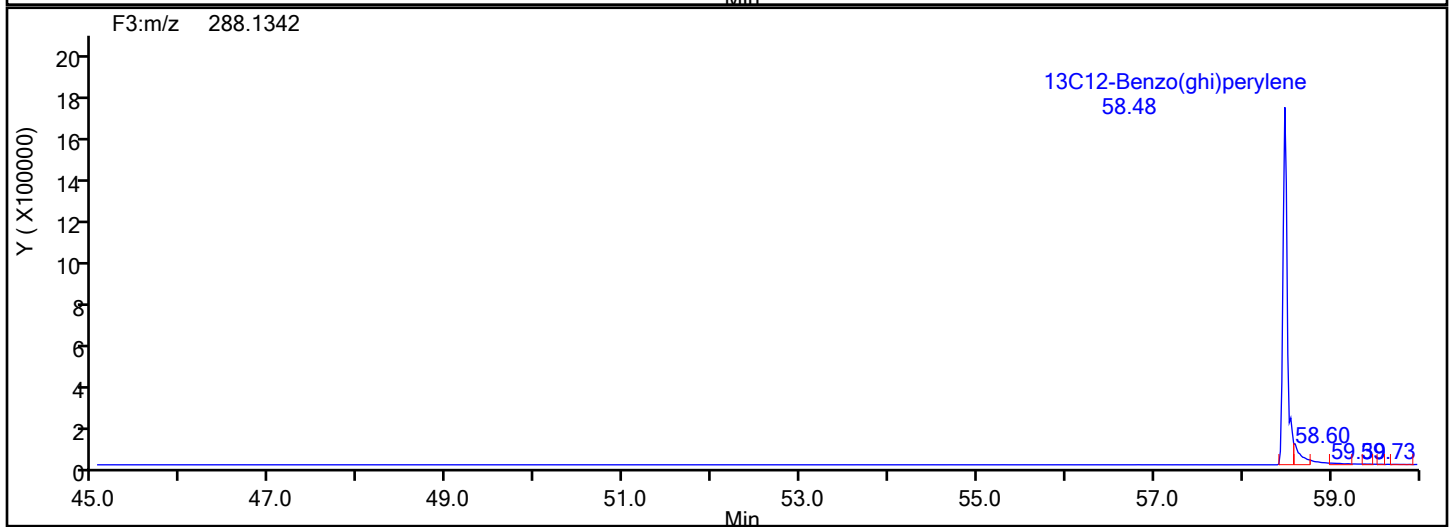
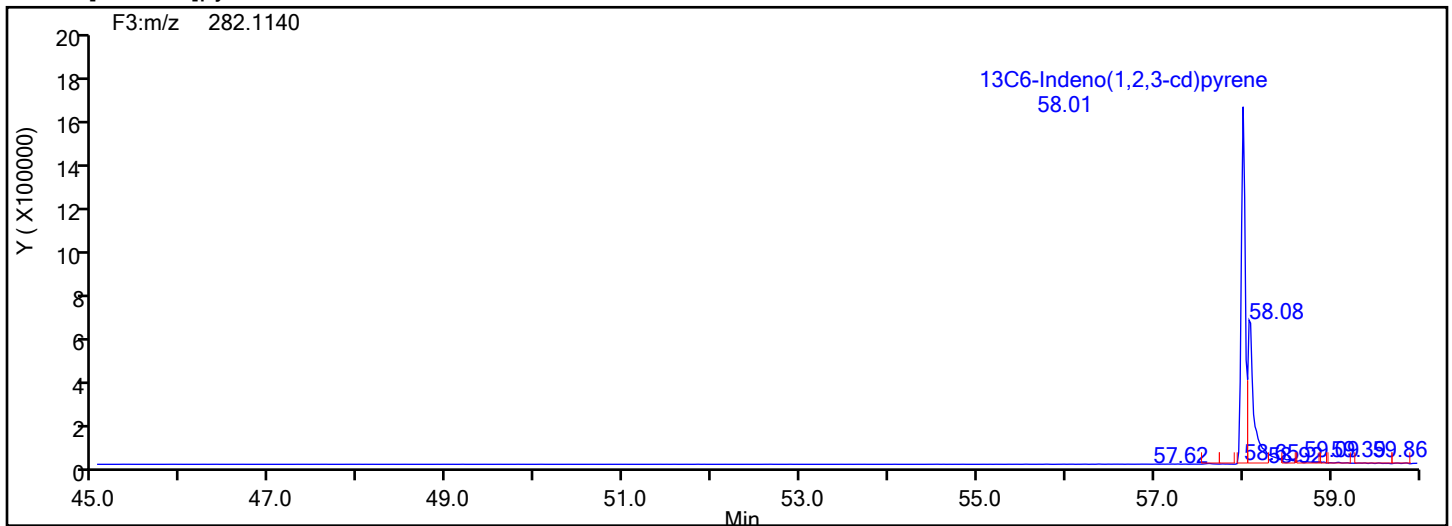
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

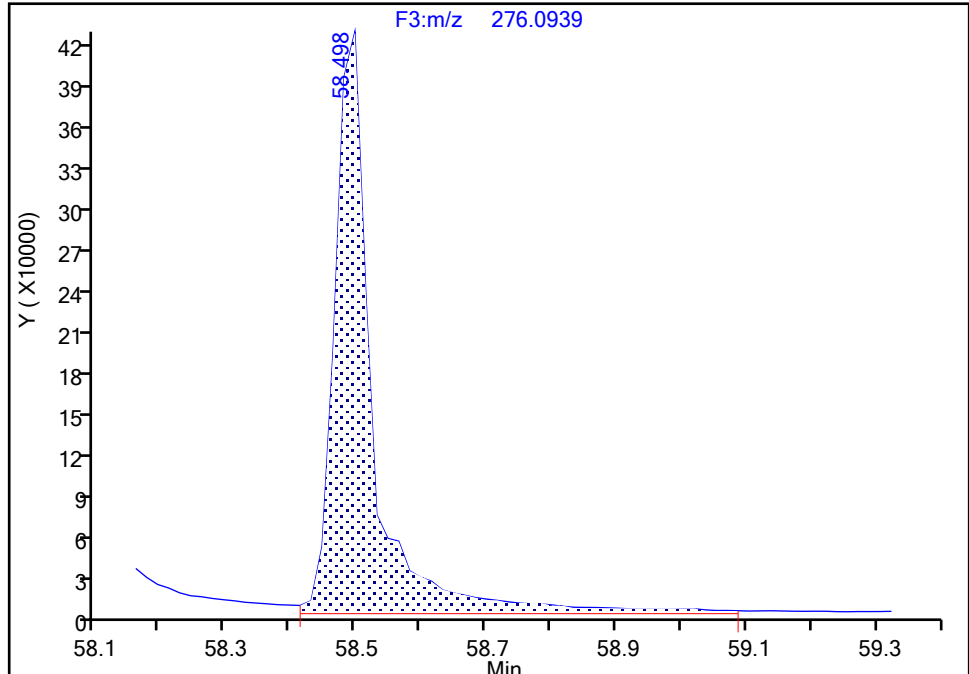
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Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

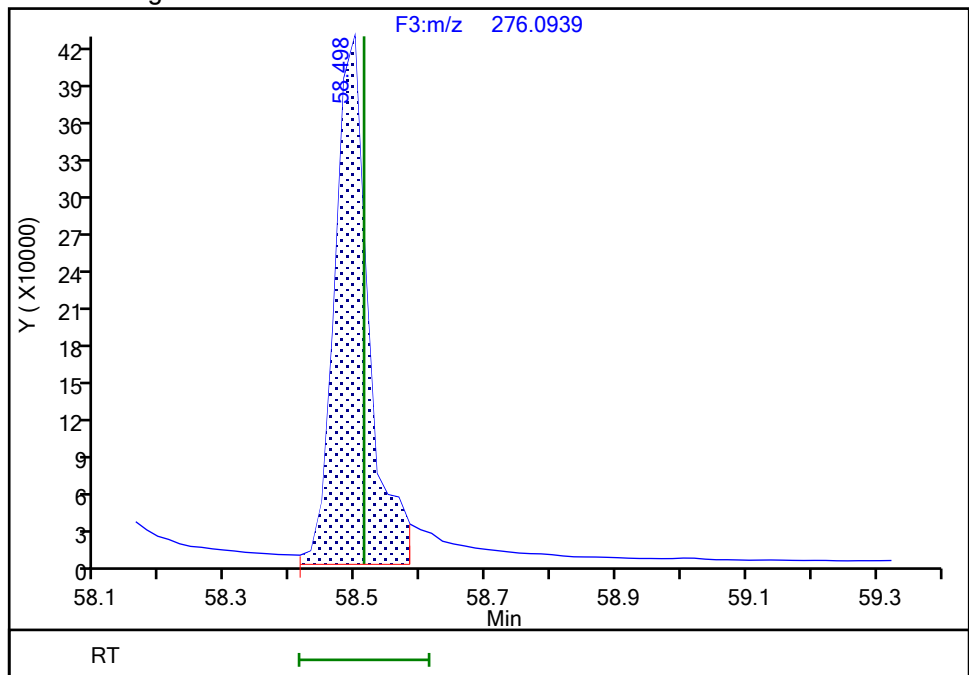
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Area: 1774253
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Amount Units: pg/ul

Processing Integration Results



RT: 58.50
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

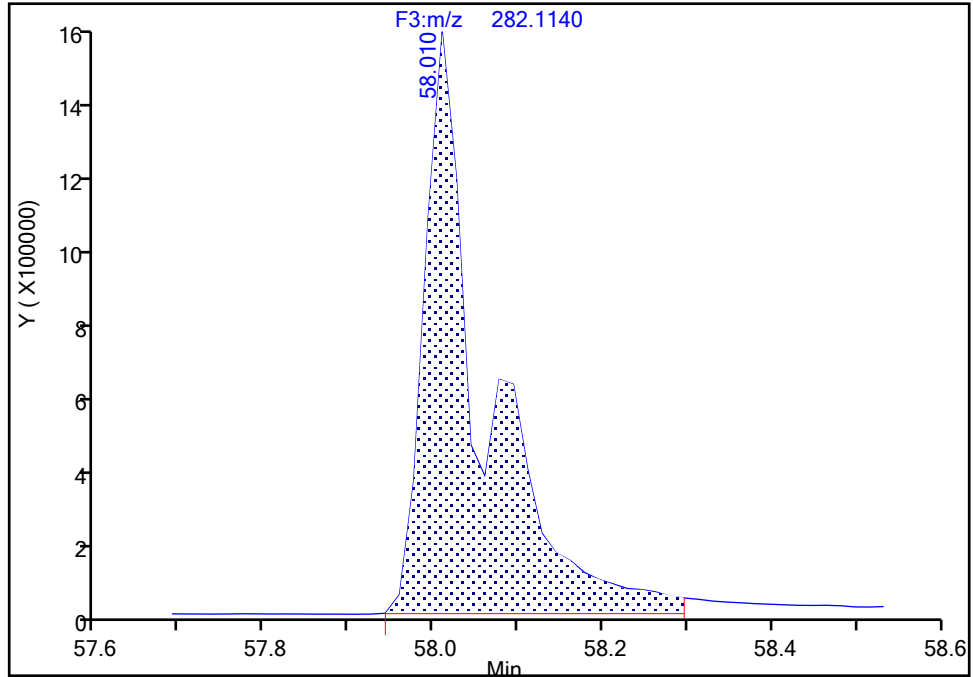
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Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

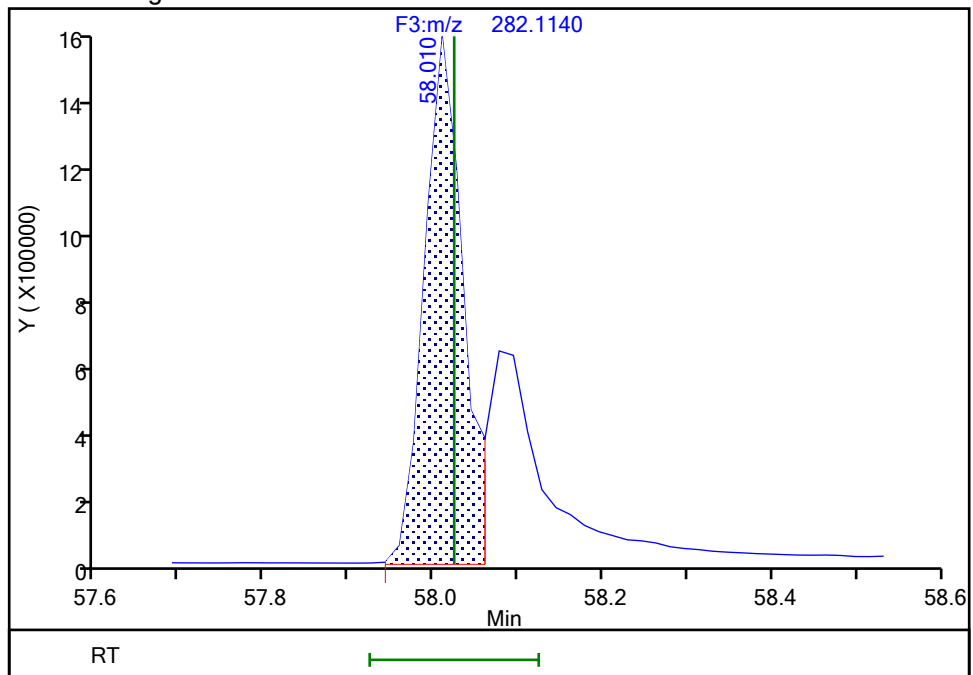
RT: 58.01
Area: 7944490
Amount: 138.0523
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 5157889
Amount: 100.7229
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

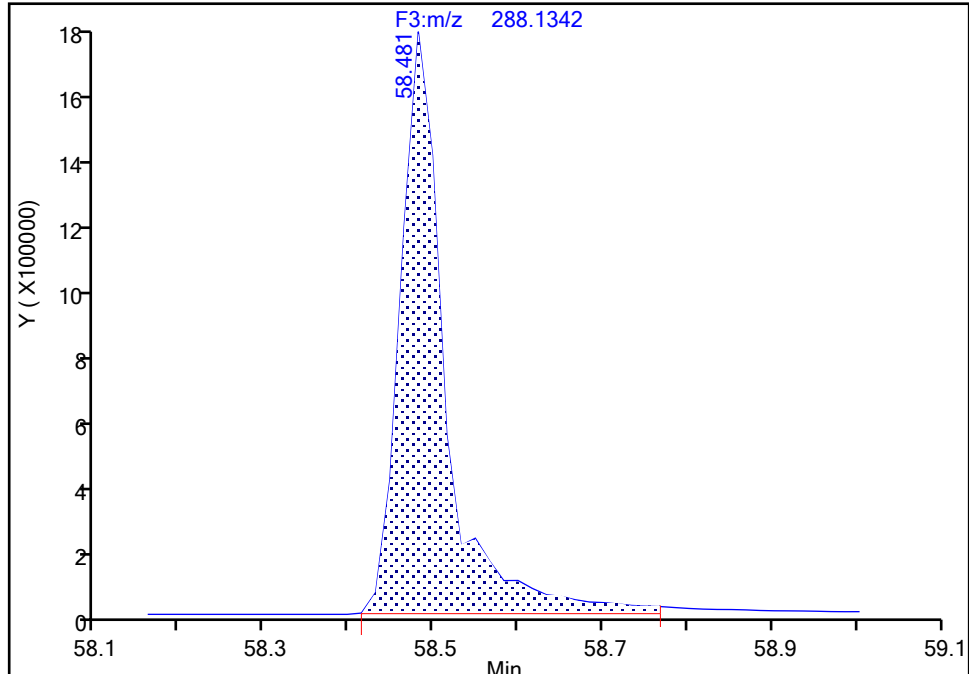
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

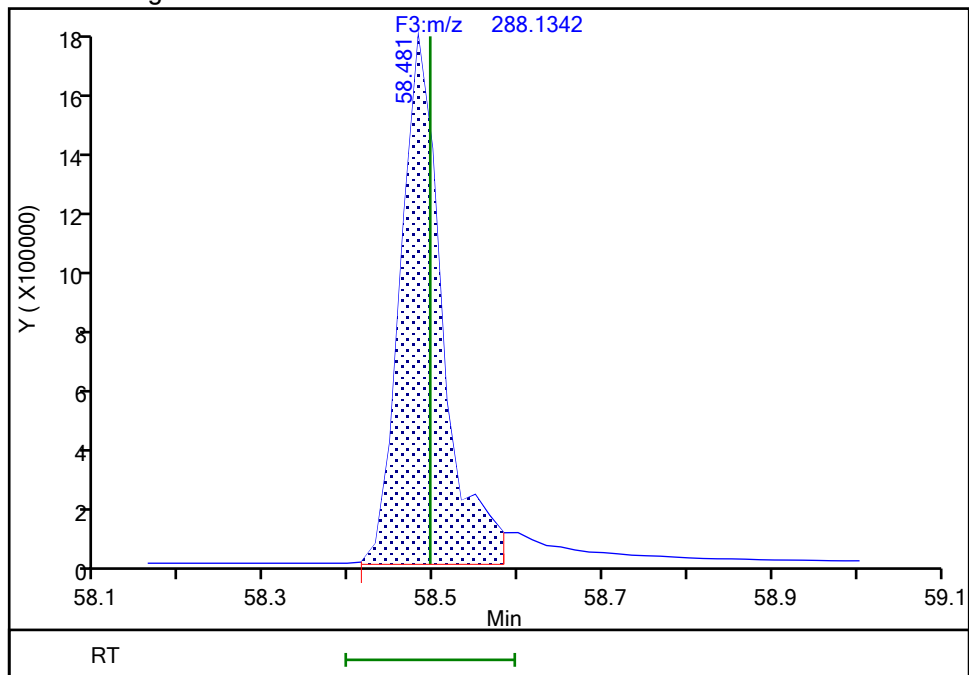
RT: 58.48
Area: 6560124
Amount: 98.048209
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 6056294
Amount: 94.793737
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:58 -04:00:00 (UTC)

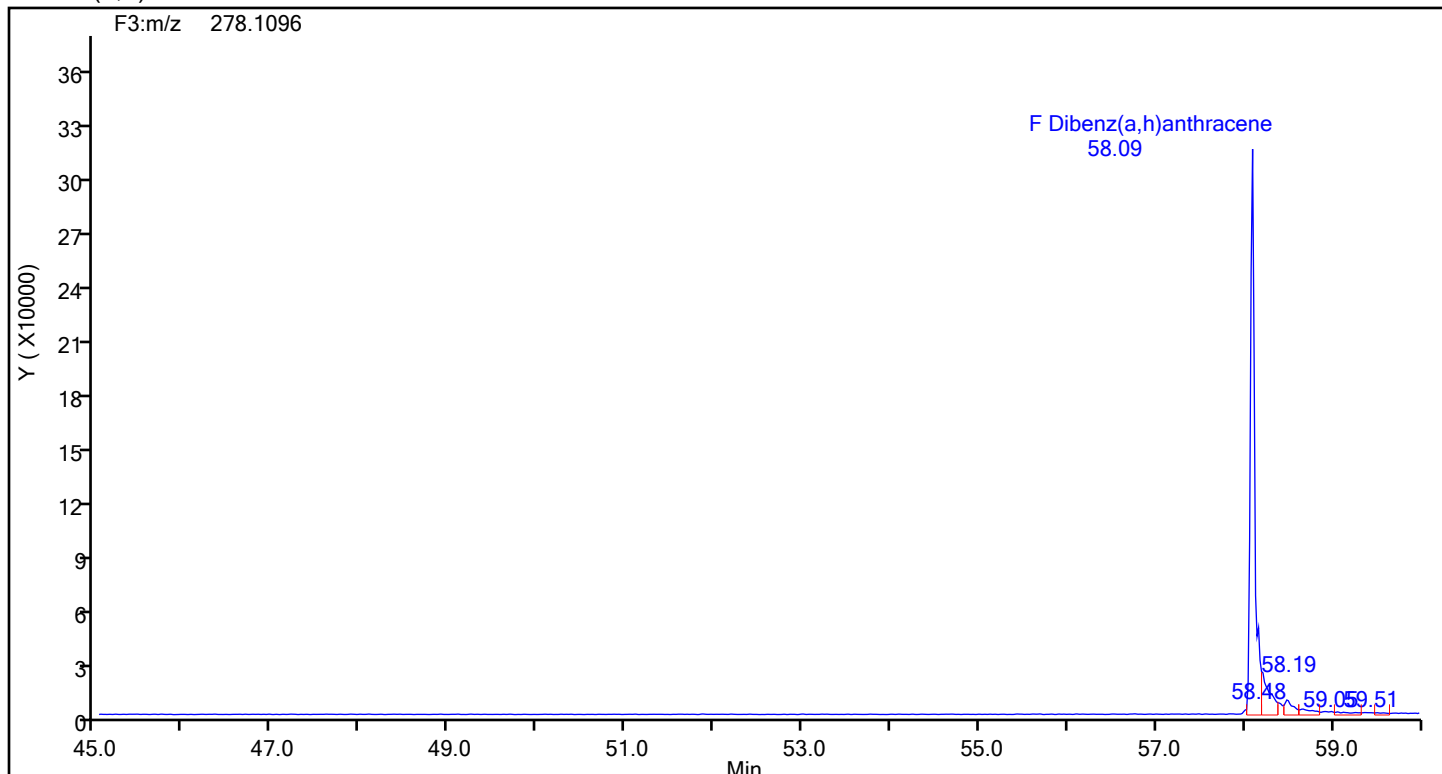
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

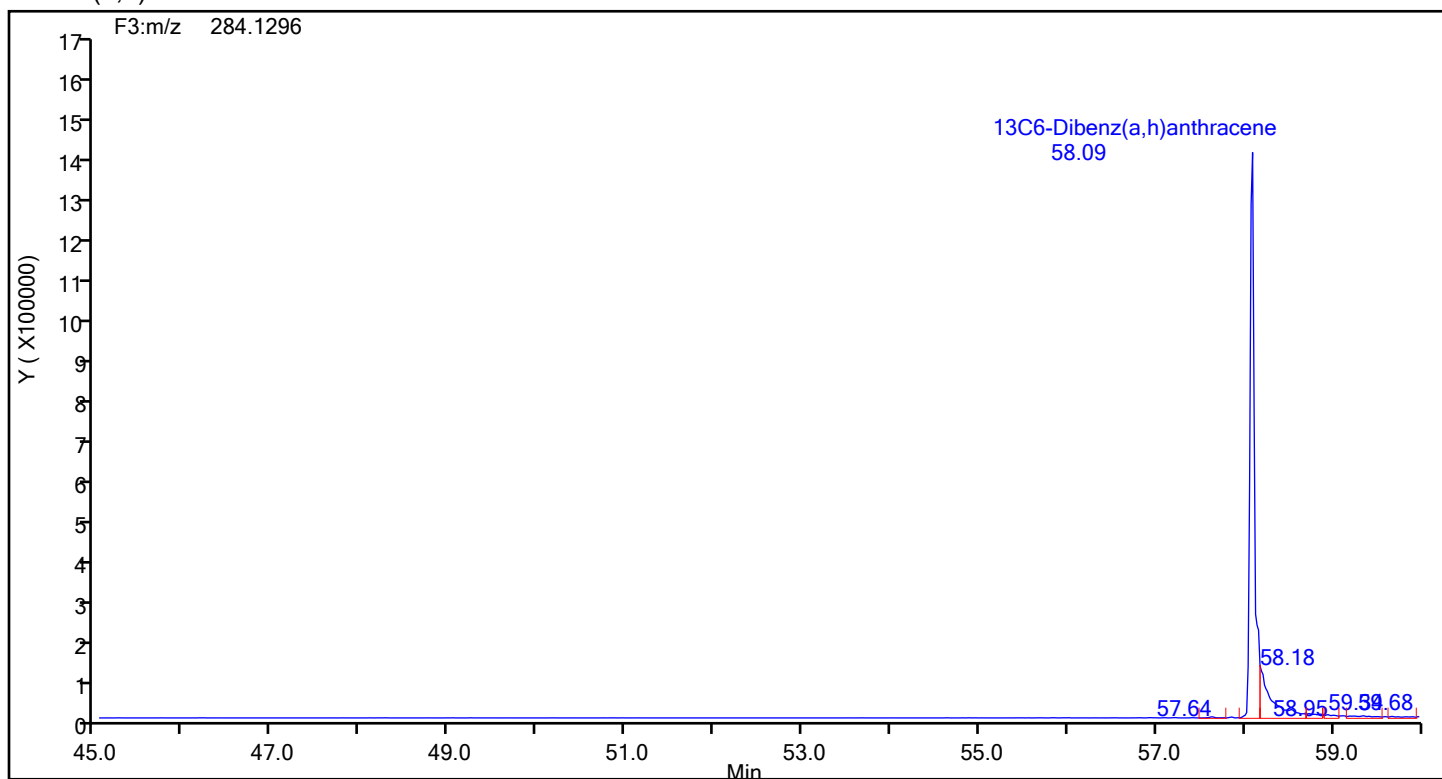
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 4
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

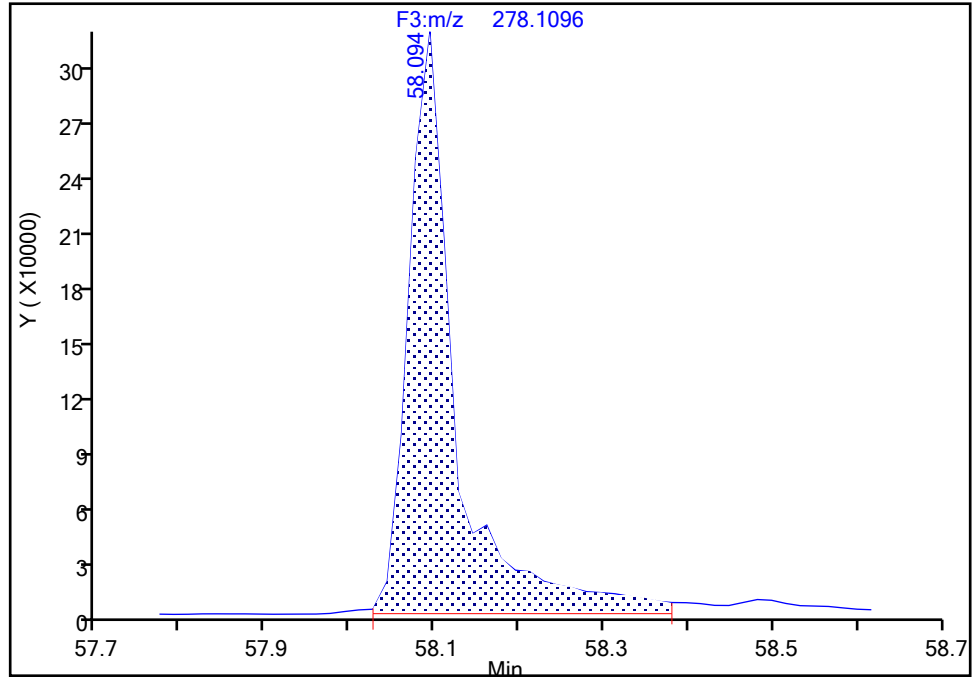
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic4.d
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

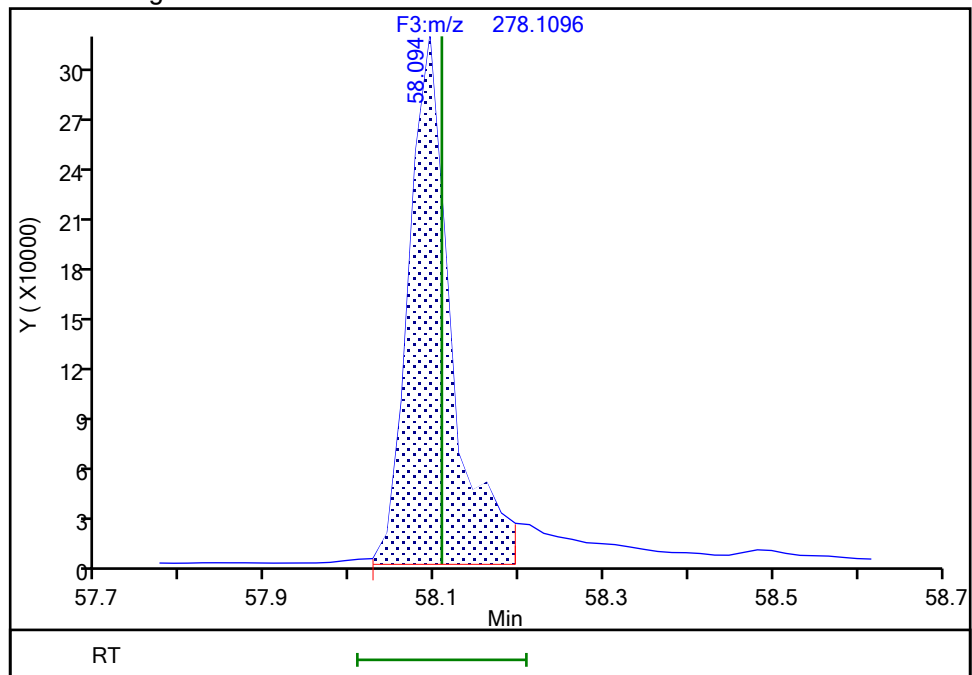
RT: 58.09
Area: 1232103
Amount: 21.755514
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 1098846
Amount: 19.471060
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

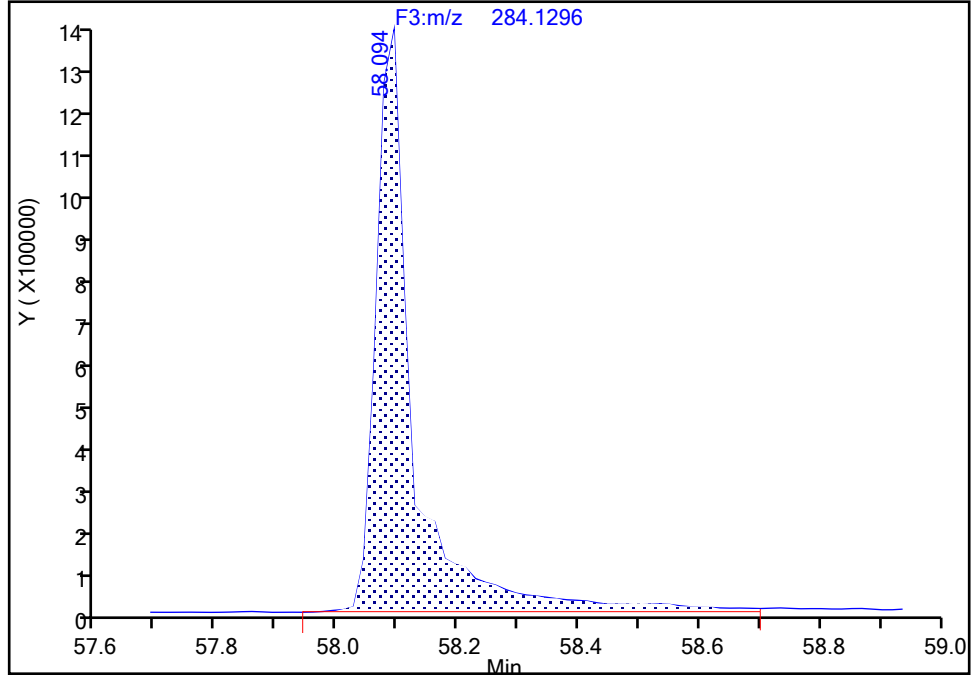
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Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

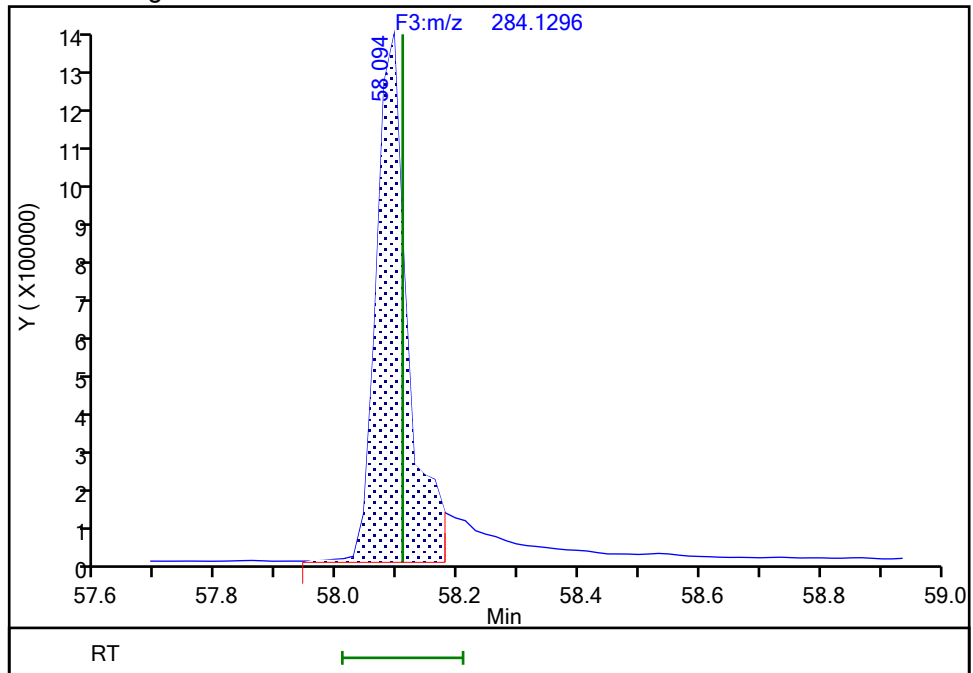
RT: 58.09
Area: 6017320
Amount: 102.2732
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 4988169
Amount: 94.323143
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-005
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10955076		3.3746	106.7	106.7	0.005904	0.005904	107	
Naphthalene	11:33	7473056		1.2893	52.9	52.9	0.0245	0.0245	106	
D 13C6-2-Methylnaphthalene	13:52	4932932		1.6031	101.1	101.1	0.001290	0.001290	101	
2-Methylnaphthalene	13:52	3363658		1.2786	53.3	53.3	0.0222	0.0222	107	
D 13C6-Acenaphthylene	16:44	5031692		1.6520	100.1	100.1	0.000683	0.000683	100	
Acenaphthylene	16:45	3367785		2.3661	48.6	48.6	0.0245	0.0245	97.16	
* Acenaphthene-d10	17:19	3042646		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2929756		0.9792	98.3	98.3	0.001632	0.001632	98.34	
Acenaphthene	17:26	1886298		1.2697	50.7	50.7	0.0296	0.0296	101	
D 13C6-Fluorene	19:43	2645576		0.8898	97.7	97.7	0.000211	0.000211	97.71	
Fluorene	19:44	1683007		1.2532	50.8	50.8	0.0362	0.0362	102	
D 13C6-Phenanthrene	25:07	4005566		0.5724	100.0	100.0	0.003590	0.003590	100	
Phenanthrene	25:07	2244288		1.1044	50.7	50.7	0.0388	0.0388	101	
\$ Anthracin-d10	25:20	2982348		0.4257	100.2	100.2	0.001252	0.001252	100	
D 13C6-Anthracene	25:26	3095933		0.4523	97.9	97.9	0.004543	0.004543	97.86	
Anthracene	25:27	2030307		1.3586	48.3	48.3	0.0433	0.0433	96.54	
D 13C6-Fluoranthrene	33:52	8354538		1.1994	99.6	99.6	0.0211	0.0211	99.59	
Fluoranthene	33:53	4770414		1.1513	49.6	49.6	0.0165	0.0165	99.19	
* Pyrene-d10	35:25	6994144		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	9271369		1.3512	98.1	98.1	0.0130	0.0130	98.10	
Pyrene	35:34	4880169		1.0652	49.4	49.4	0.0164	0.0164	98.83	
\$ 13C6-Benzo(c)fluorene	39:16	3562609		0.5136	99.2	99.2	0.002964	0.002964	99.18	
D 13C6-Benzo(a)anthracene	46:06	7783391		1.5189	96.4	96.4	0.0149	0.0149	96.35	
Benzo[a]anthracene	46:06	3701131		0.9739	48.8	48.8	0.0259	0.0259	97.66	
D 13C6-Chrysene	46:23	8407429		1.6287	97.1	97.1	0.0139	0.0139	97.06	
Chrysene	46:23	4046826		0.9815	49.0	49.0	0.0248	0.0248	98.09	
D 13C6-Benzo(b)fluoranthene	54:38	7699352		1.4621	99.0	99.0	0.000971	0.000971	99.02	
Benzo[b]fluoranthene	54:39	4268765		1.1249	49.3	49.3	0.008037	0.008037	98.57	
\$ 13C12-Benzo(j)fluoranthene	54:40	6879595		1.3558	95.4	95.4	0.0142	0.0142	95.41	
D 13C6-Benzo(k)fluoranthene	54:46	9021801		1.7507	96.9	96.9	0.000811	0.000811	96.90	
Benzo[k]fluoranthene	54:46	4838139		1.1271	47.6	47.6	0.007450	0.007450	95.16	
* Benzo(e)pyrene-d12	55:29	5318283		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	8346864		1.6368	95.9	95.9	0.0109	0.0109	95.88	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	4054021		1.0013	48.5	48.5	0.006790	0.006790	97.02	
Benzo[a]pyrene	55:43	4220425		1.1130	47.9	47.9	0.006988	0.006988	95.80	
D 13C4-Benzo(a)pyrene	55:43	7915726		1.5508	96.0	96.0	0.0115	0.0115	95.98	
D Perylene-d12	55:53	6306802		1.1917	99.5	99.5	0.0156	0.0156	99.51	
Perylene	55:57	4390716		1.4307	48.7	48.7	0.006162	0.006162	97.32	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4835402		1.0218	89.0	89.0	0.009555	0.009555	88.98	
Indeno[1,2,3-cd]pyrene	58:01	2816296		1.1249	51.8	51.8	0.007698	0.007698	104	
D 13C6-Dibenz(a,h)anthracene	58:06	5397040		1.0553	96.2	96.2	0.004680	0.004680	96.17	M
Dibenz(a,h)anthracene	58:06	2789079		1.1314	45.7	45.7	0.006309	0.006309	91.35	M
D 13C12-Benzo(ghi)perylene	58:29	6552075		1.2749	96.6	96.6	0.005655	0.005655	96.64	M
Benzo[g,h,i]perylene	58:30	3911770		1.2838	46.5	46.5	0.006063	0.006063	93.01	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
 Lims ID: IC L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-005
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10955076	3690318	85	212	43416		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	7473056	2421498	467	1167	5185		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	4932932	2219700	9	22	246633		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	3363658	1603367	252	630	6363		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5031692	1788464	5	12	357693		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	3367785	1171577	235	587	4985		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3042646	1064056	1	2	1064056		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2929756	1010685	7	17	144384		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	1886298	641803	152	380	4222		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	2645576	771302	1	2	771302		
Fluorene											
166.0783	19:44	19:45	-1	1.001	1683007	495116	140	350	3537		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4005566	933714	11	27	84883		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	2244288	517487	160	400	3234		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2982348	664576	3	7	221525		
13C6-Anthracene											
184.0984	25:26	25:28	-1	0.718	3095933	679951	11	27	61814		
Anthracene											
178.0783	25:27	25:28	-1	1.000	2030307	457999	160	400	2862		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	8354538	1617360	133	332	12161		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	4770414	908731	123	307	7388		
Pyrene-d10											
212.1404	35:25	35:27	-2		6994144	1313834	42	105	31282		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	9271369	1754432	92	230	19070		
Pyrene											
202.0783	35:34	35:35	-2	1.000	4880169	909669	123	307	7396		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-2	0.708	3562609	636801	8	20	79600		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.302	7783391	1336753	160	400	8355		
Benzo[a]anthracene											
228.0939	46:06	46:07	-1	1.000	3701131	660493	135	337	4893		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8407429	1384733	160	400	8655		
Chrysene											
228.0939	46:23	46:25	-2	1.000	4046826	679022	135	337	5030		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7699352	1991062	10	25	199106		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	4268765	1153146	72	180	16016		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6879595	1746396	136	340	12841		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9021801	2143610	10	25	214361		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	4838139	1188451	72	180	16506		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5318283	1761536	131	327	13447		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.001	8346864	2647431	126	315	21011		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	4054021	1299546	72	180	18049		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	4220425	1260424	72	180	17506		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7915726	2314097	126	315	18366		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6306802	2041734	131	327	15586		
Perylene											
252.0939	55:57	55:58	-1	1.001	4390716	1415669	72	180	19662		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4835402	1674298	69	172	24265		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	2816296	896117	58	145	15450		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5397040	1400928	35	87	40027		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	2789079	785976	40	100	19649		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6552075	1862971	51	127	36529		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	3911770	1026772	58	145	17703		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS4a_00002

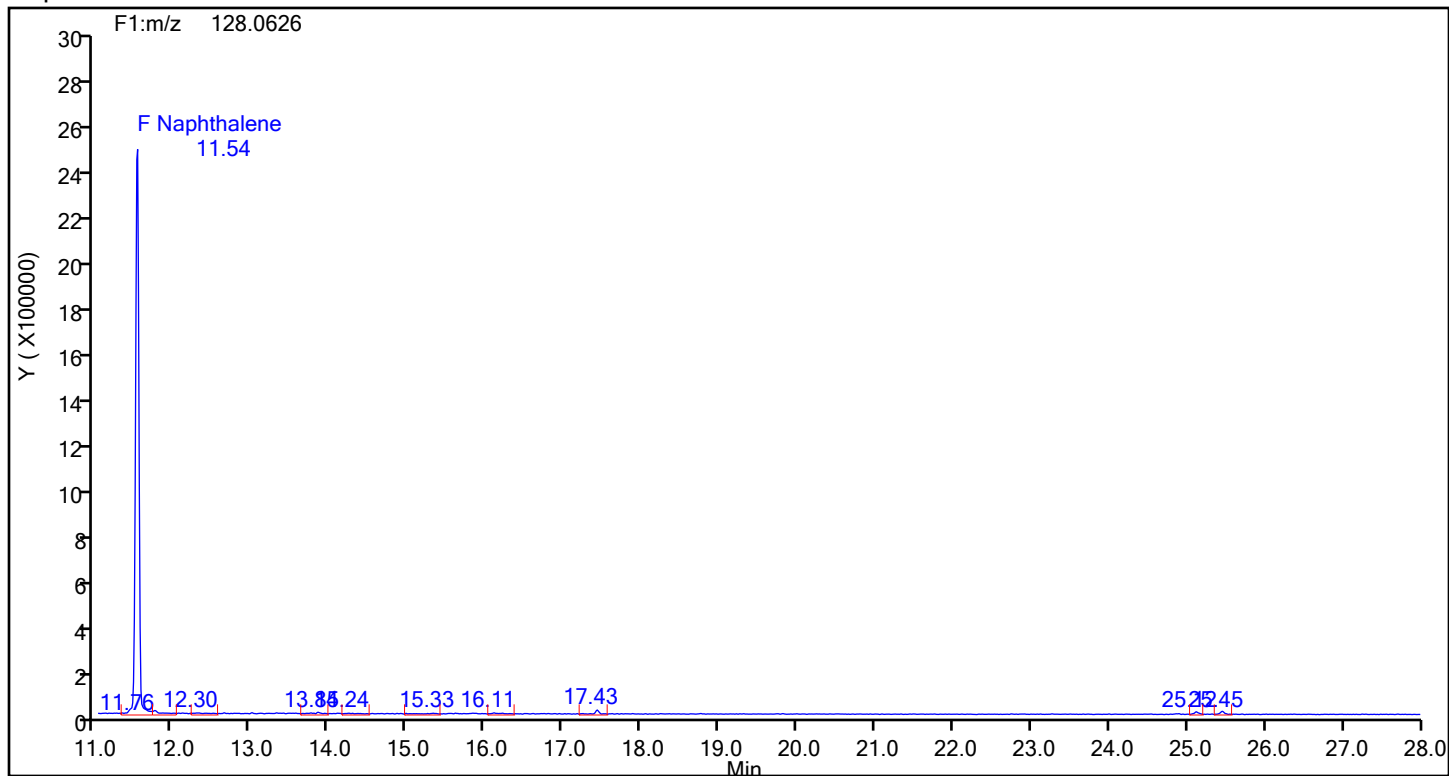
Amount Added: 20.00

Units: uL

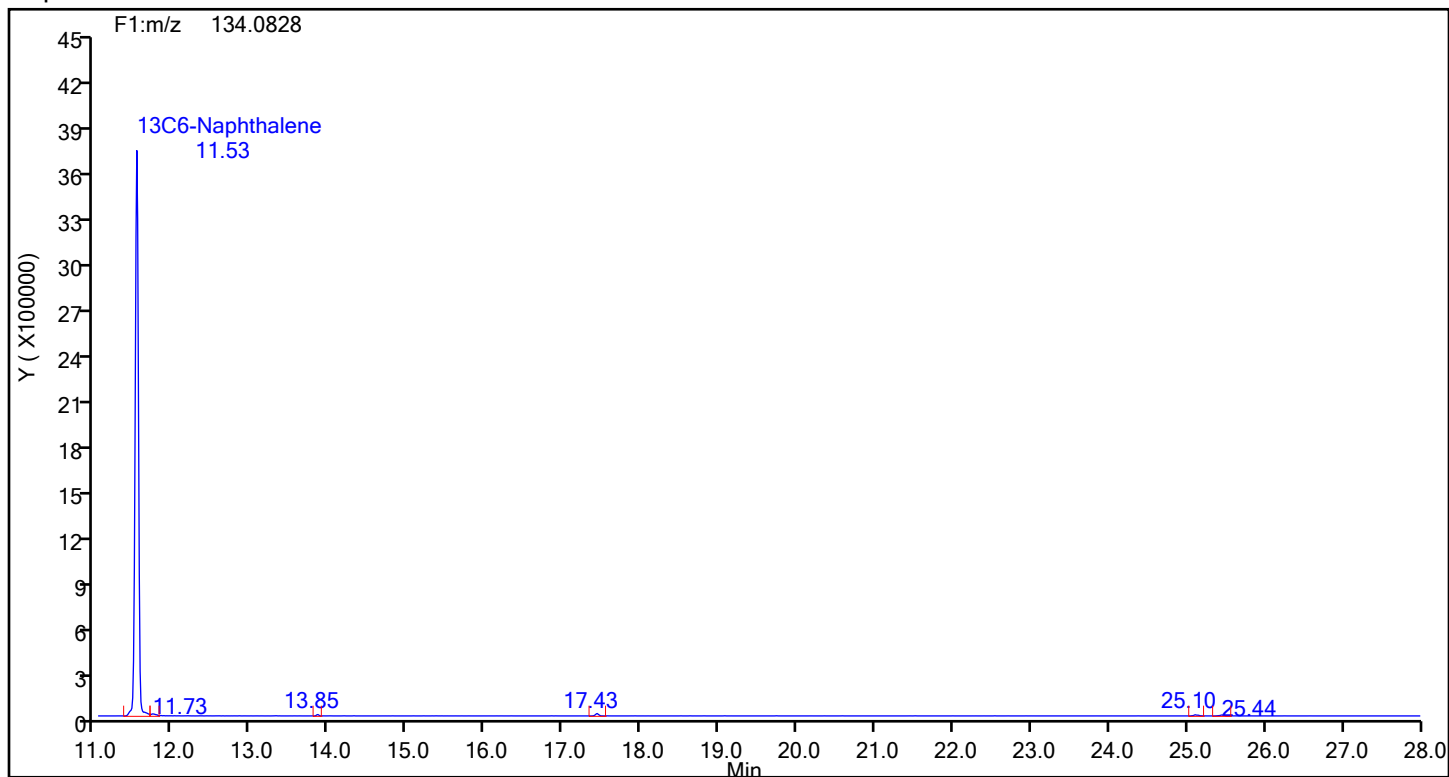
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



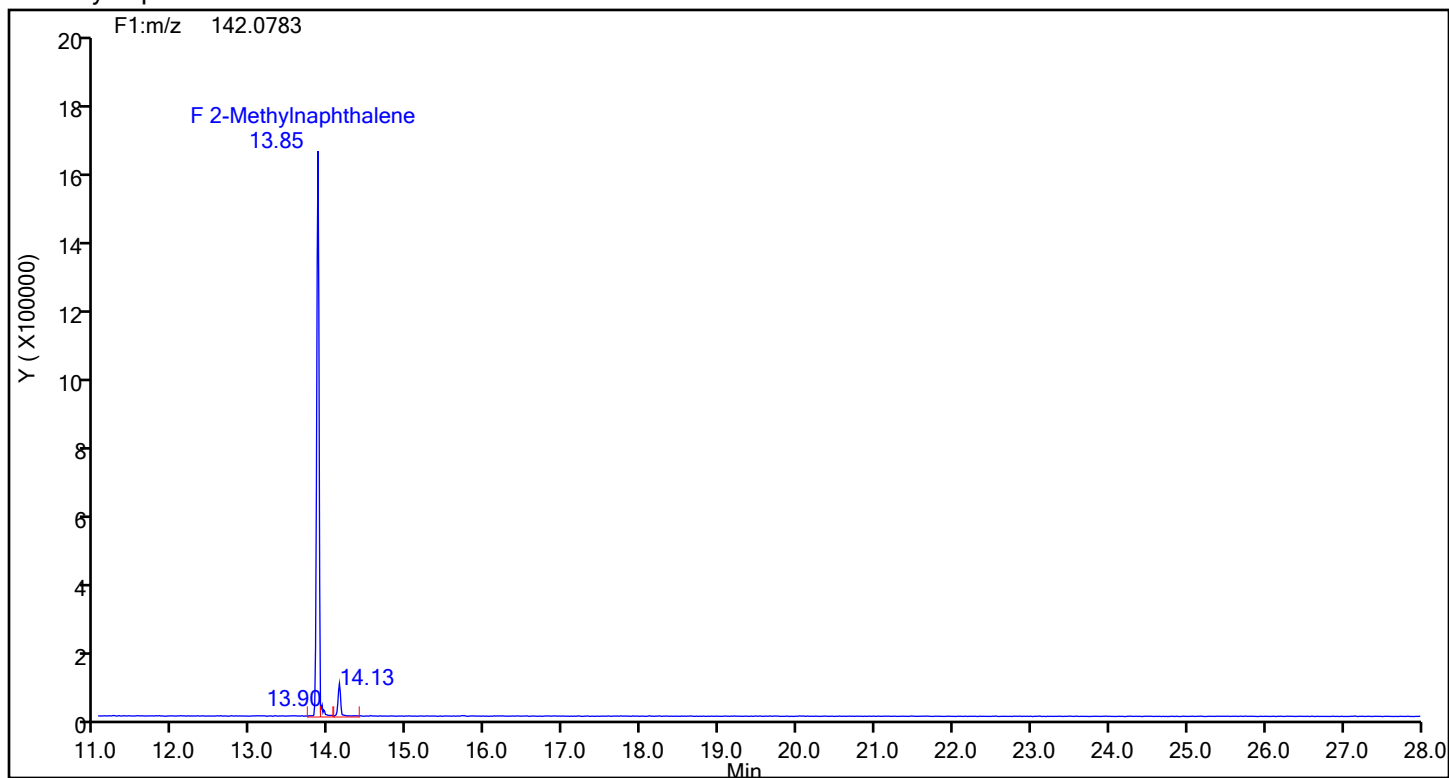
Naphthalene Standards



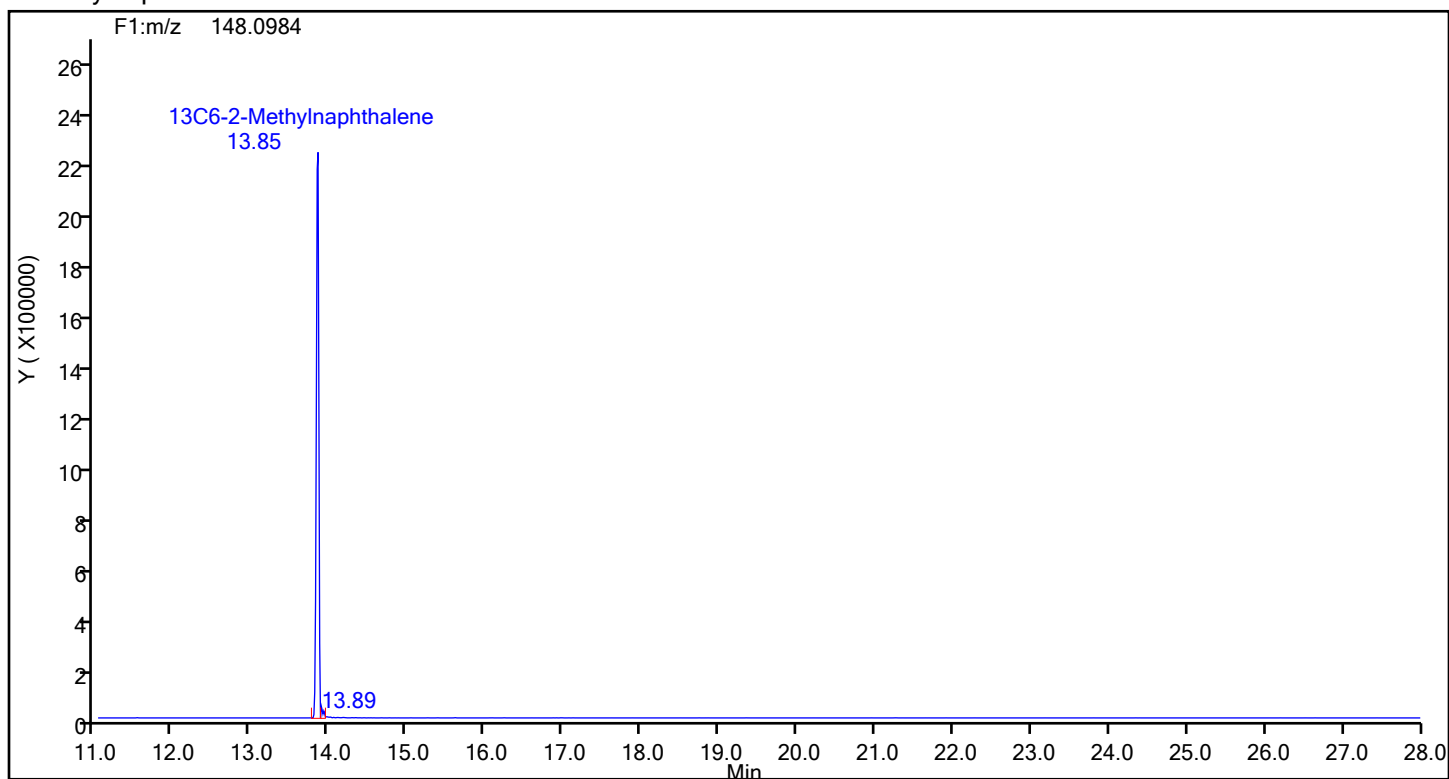
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



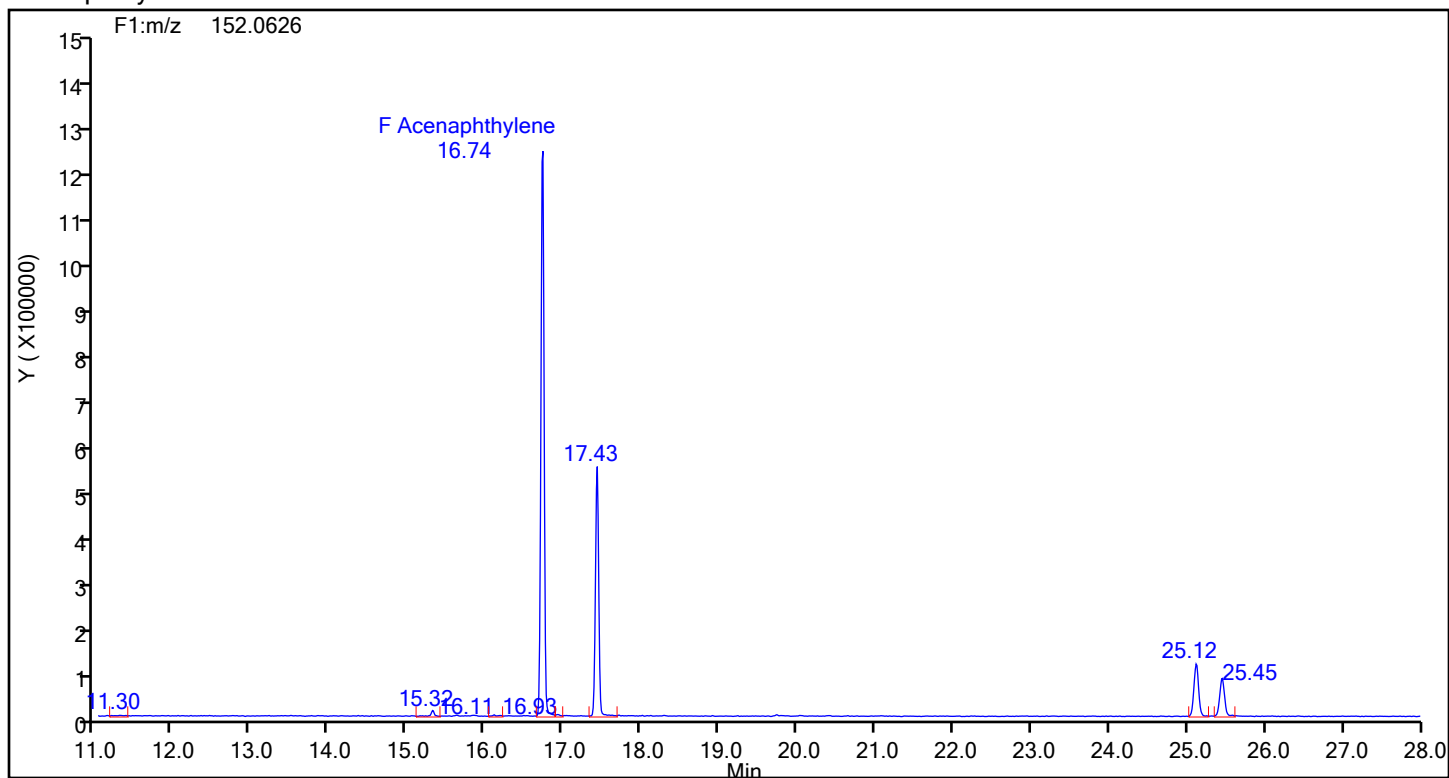
2-Methylnaphthalene Standards



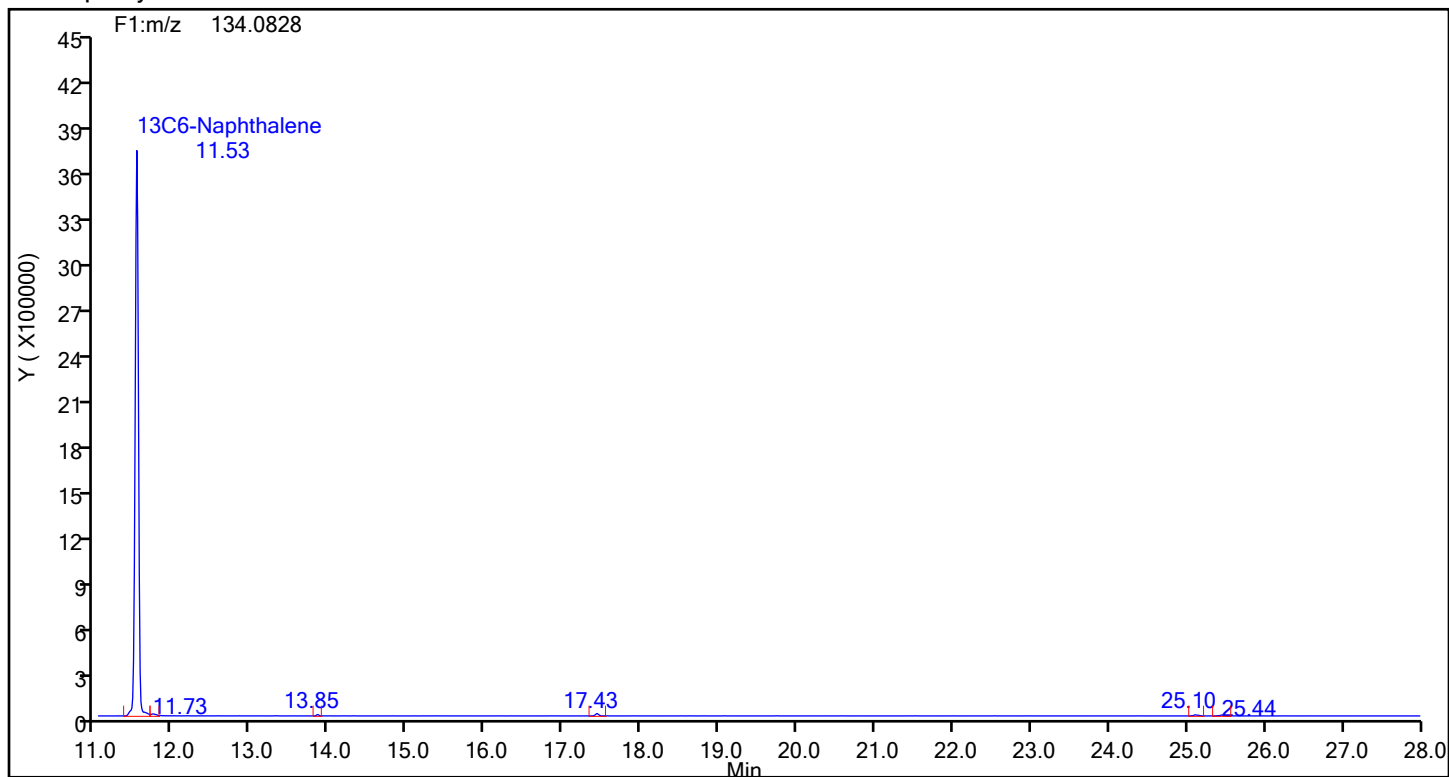
Eurofins Knoxville

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Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

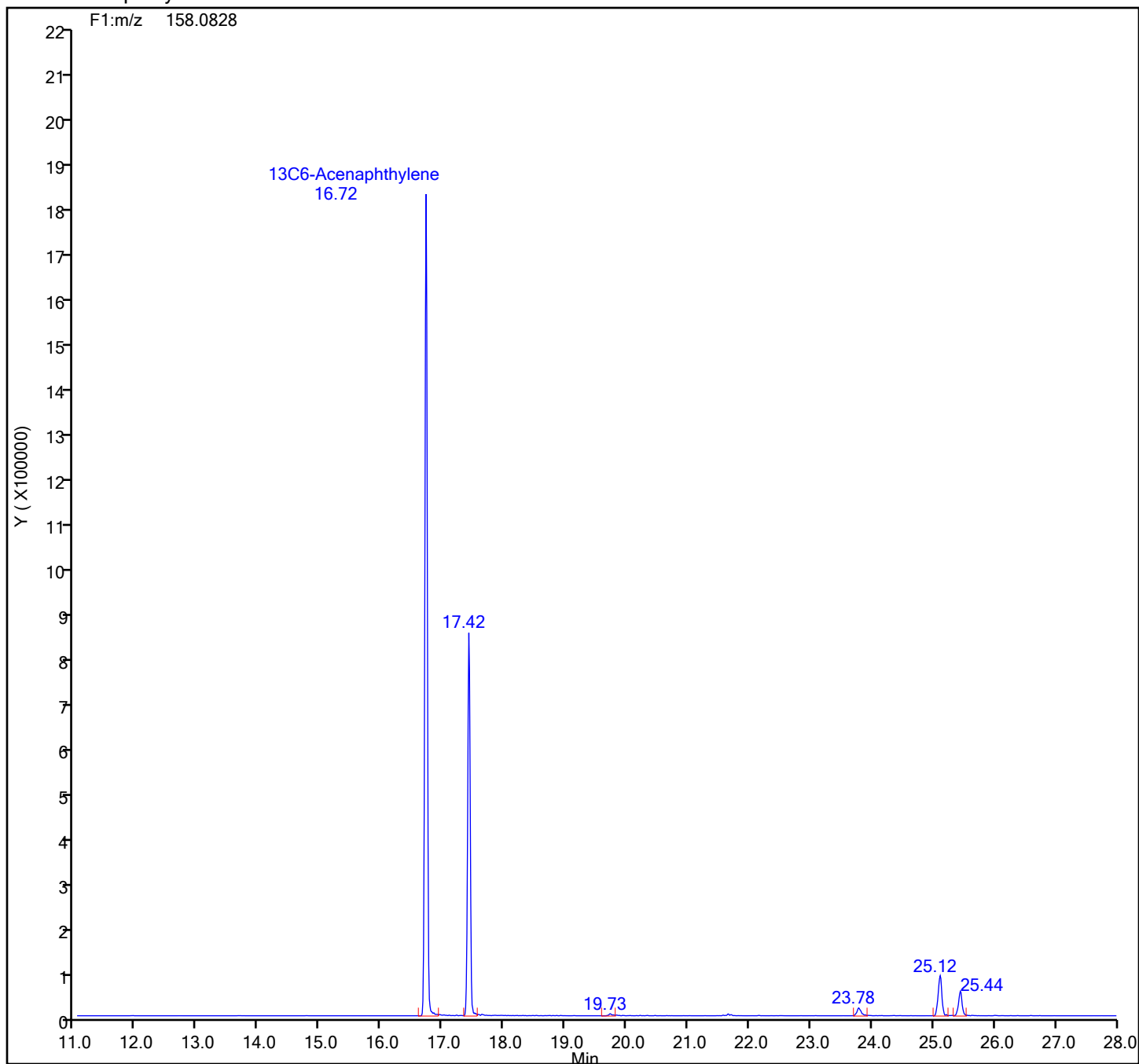


Acenaphthylene Standards



Eurofins Knoxville

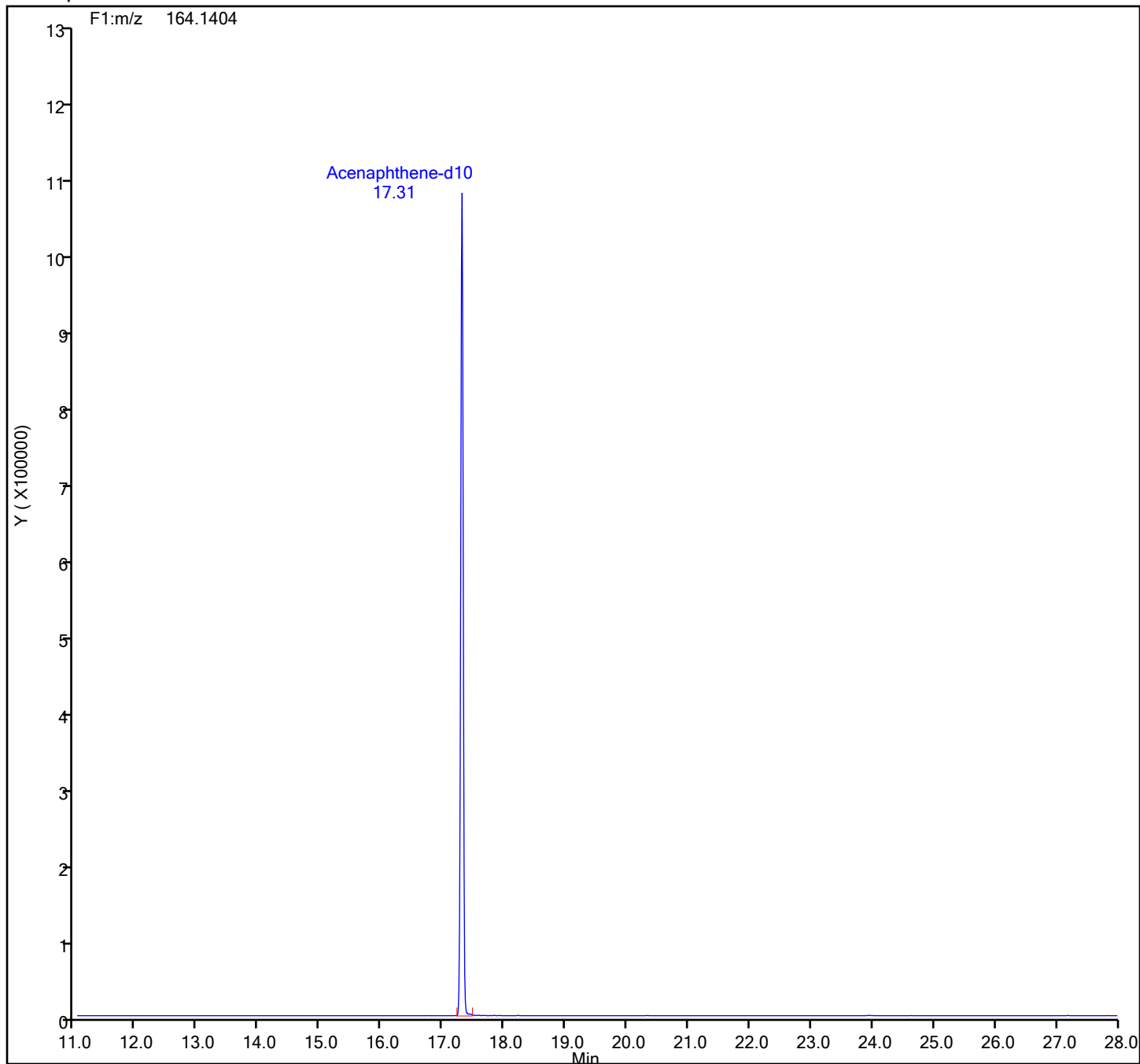
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

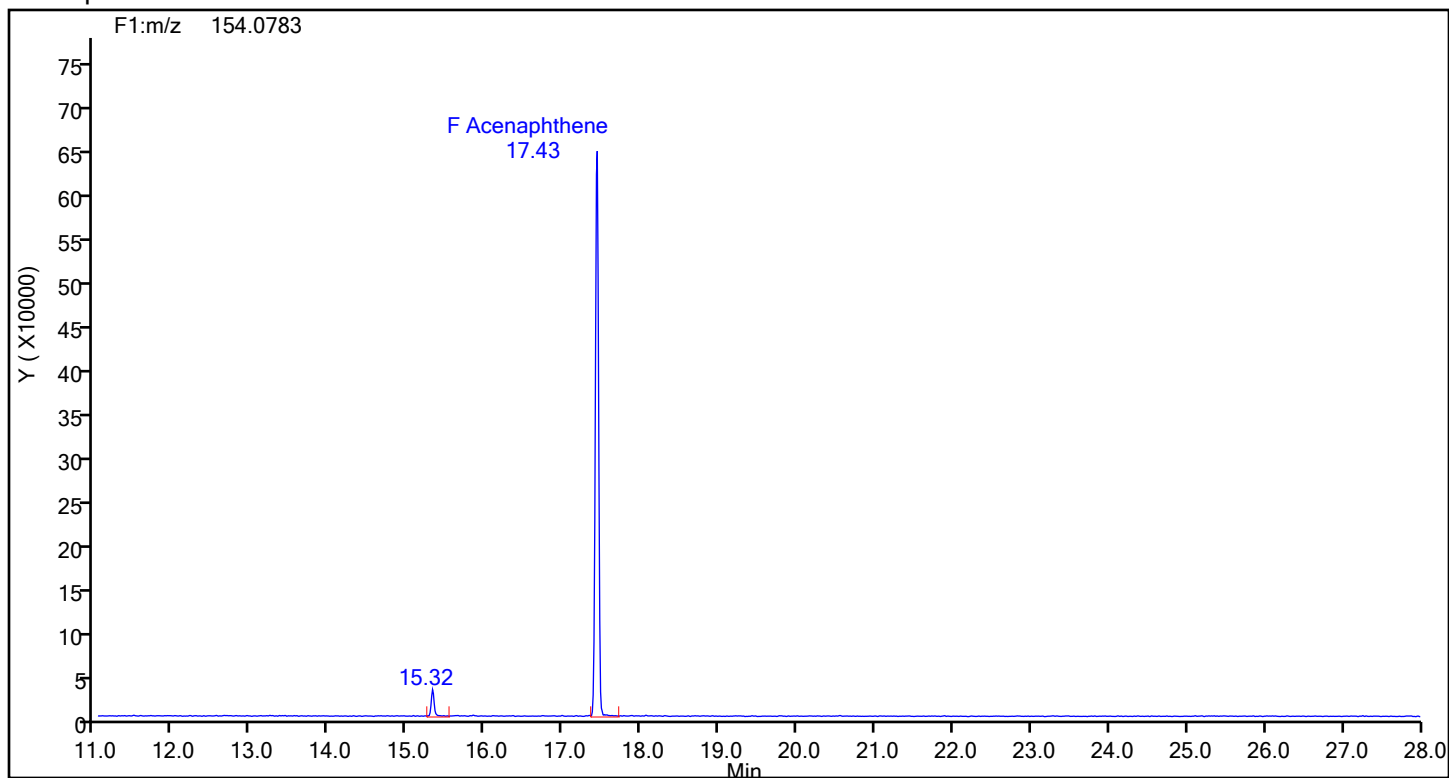
Acenaphthene-d10 Standards



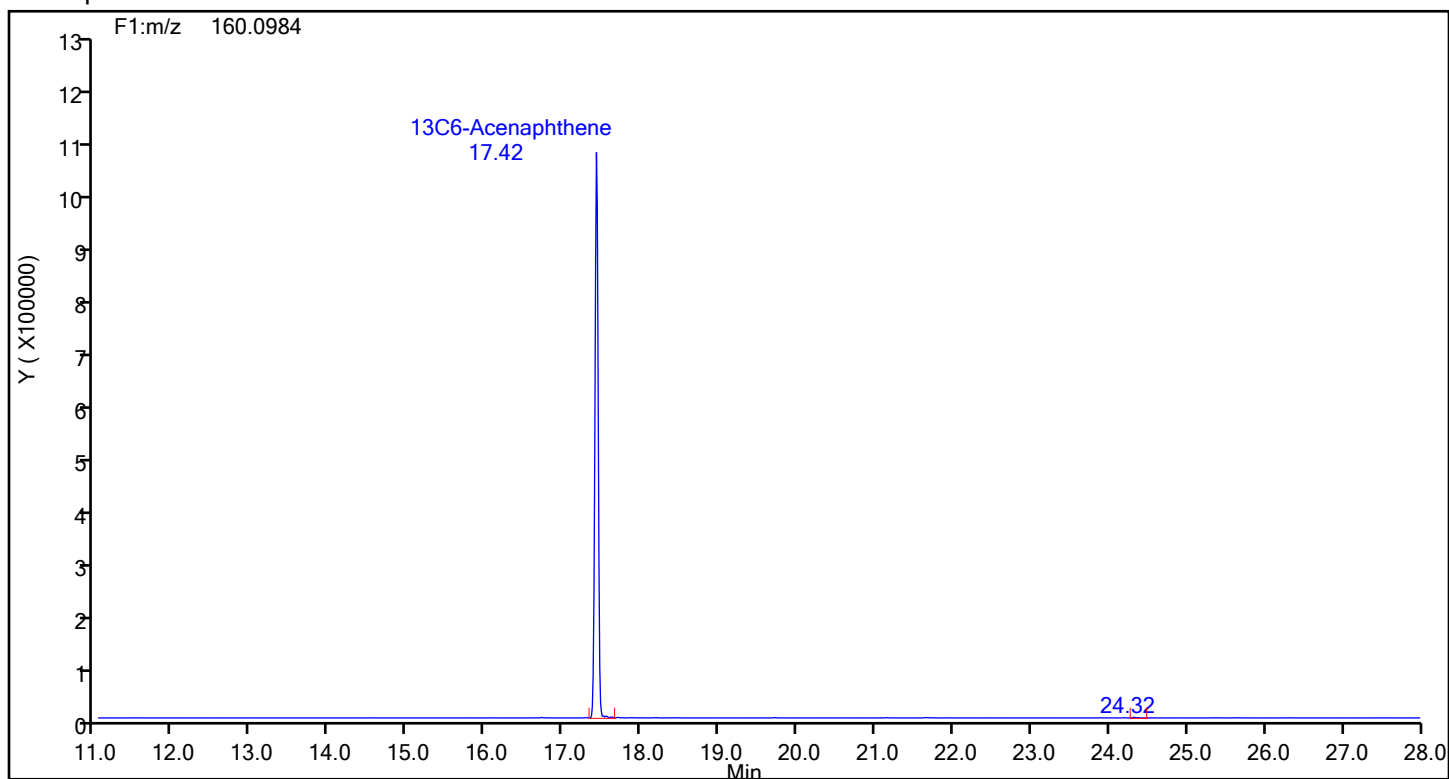
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



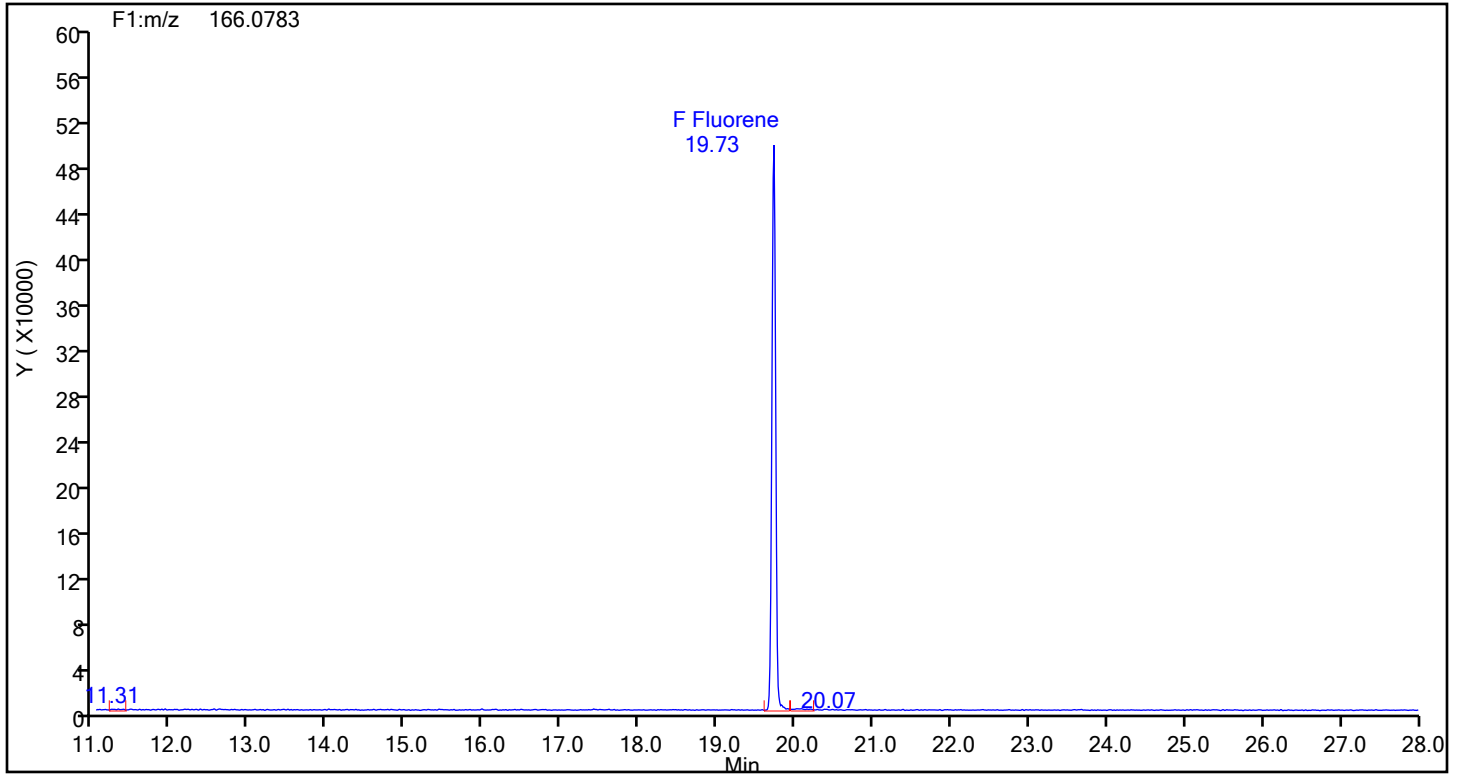
Acenaphthene Standards



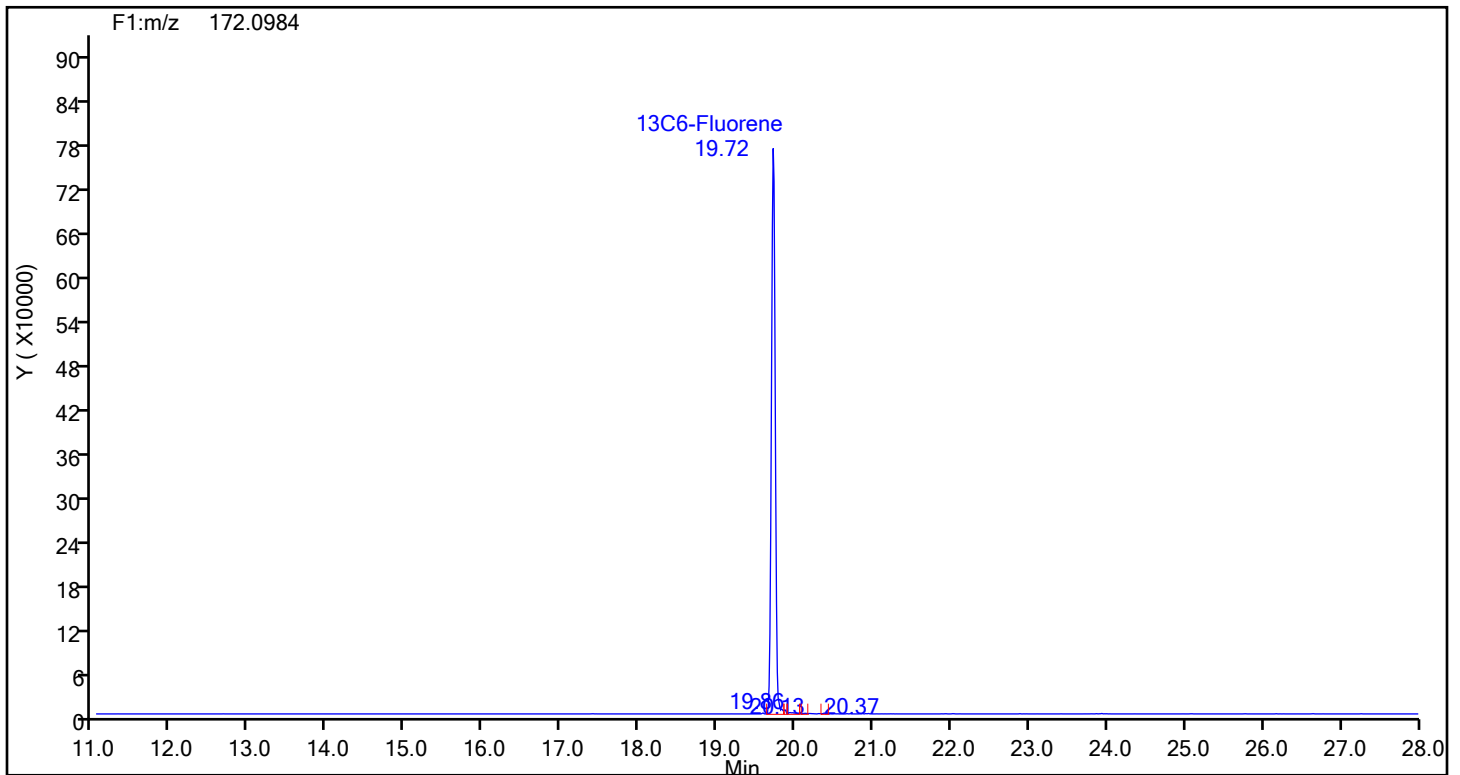
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

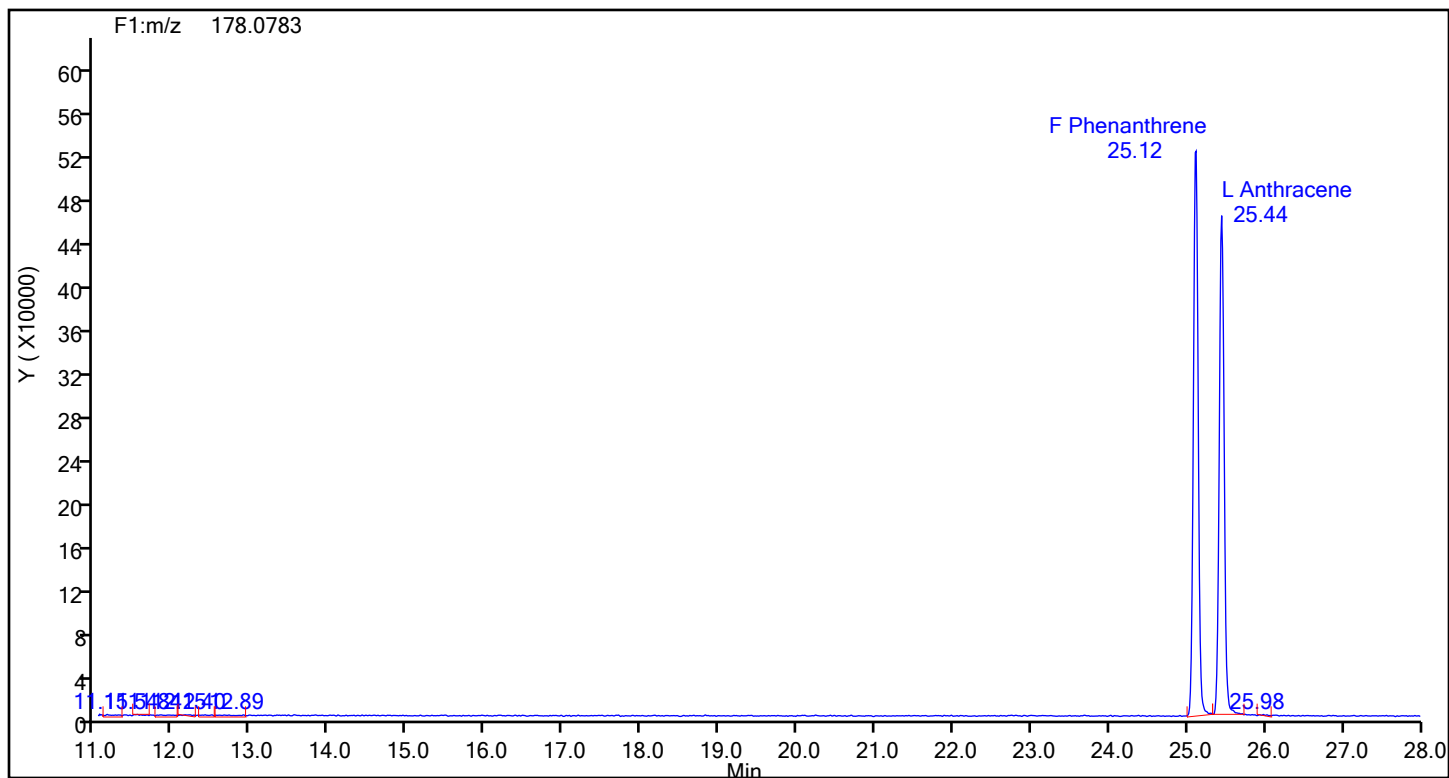


Fluorene Standards

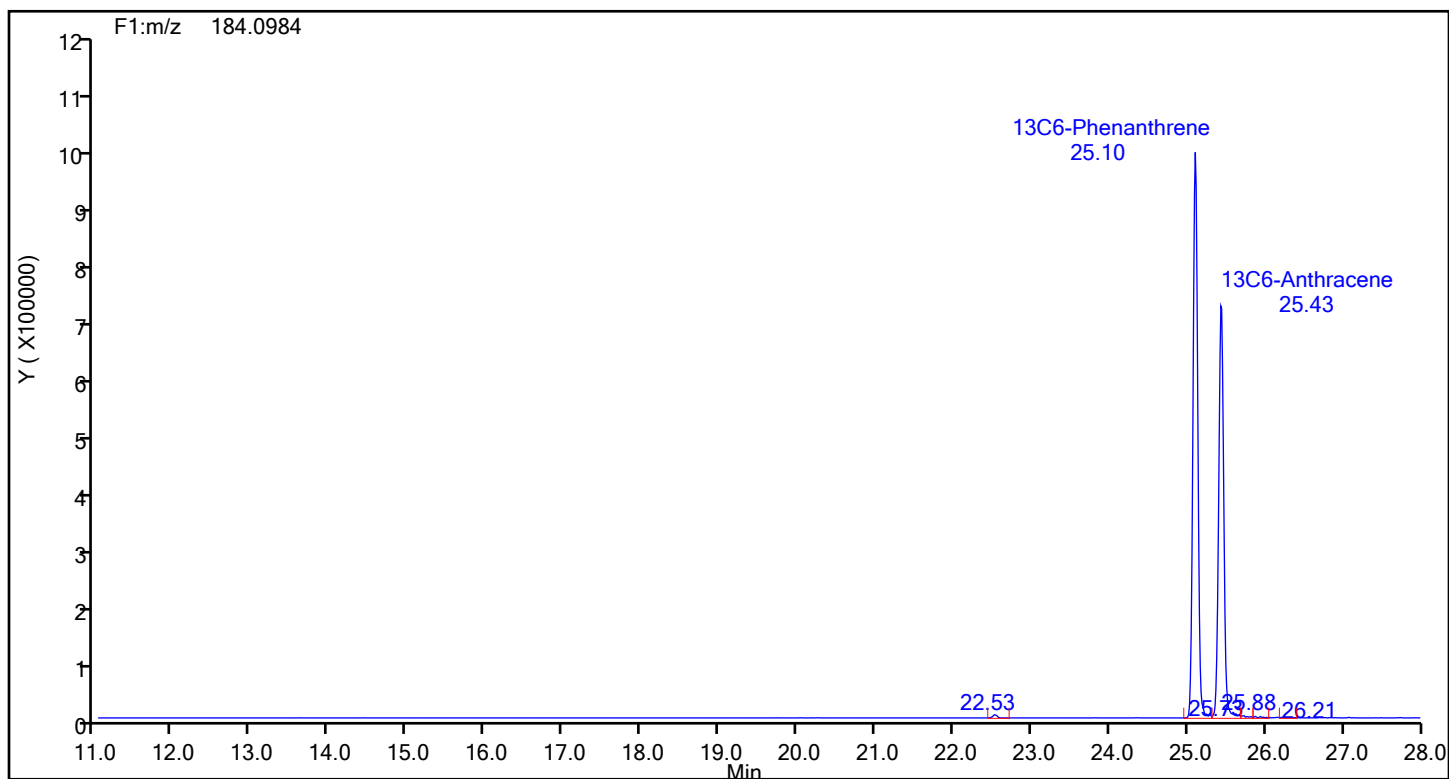


Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

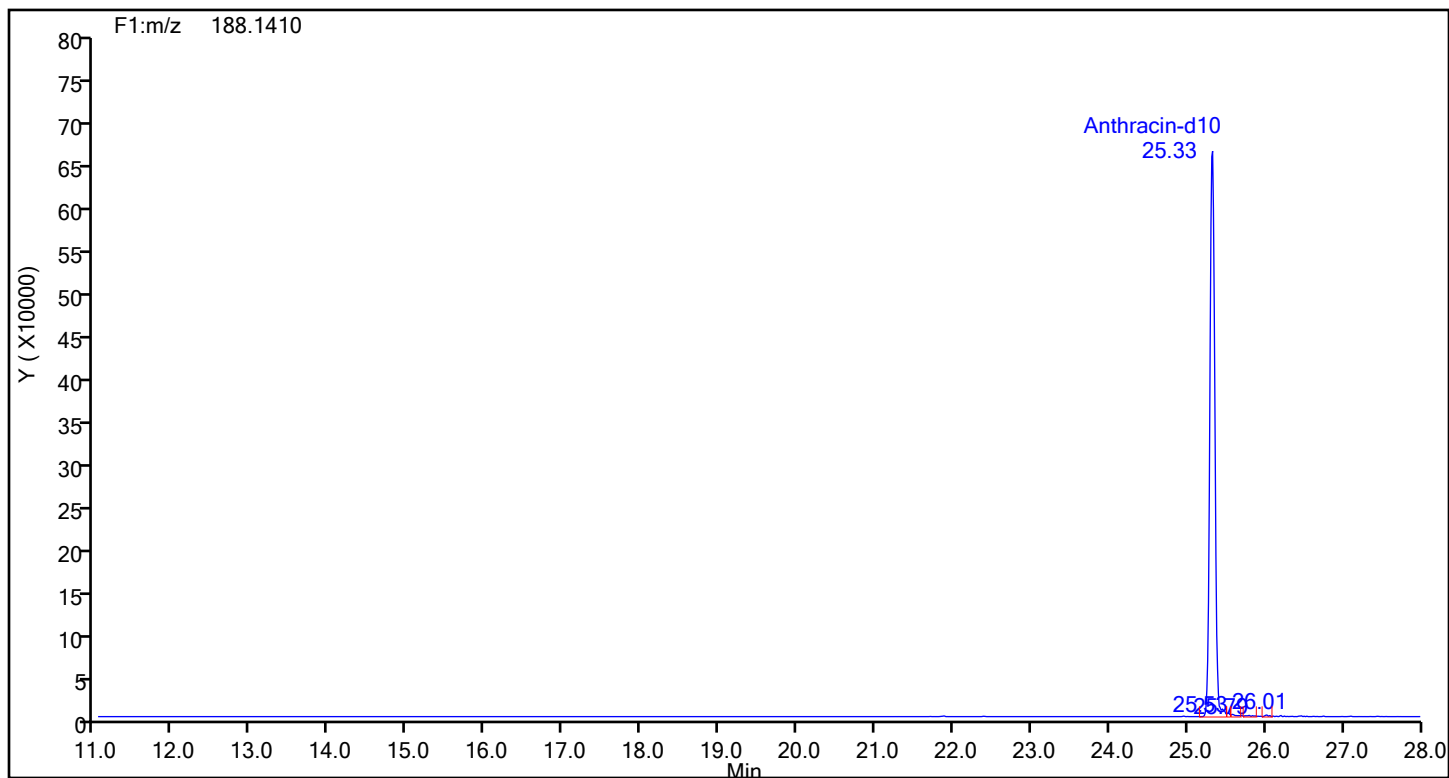


Phenanthrene Standards

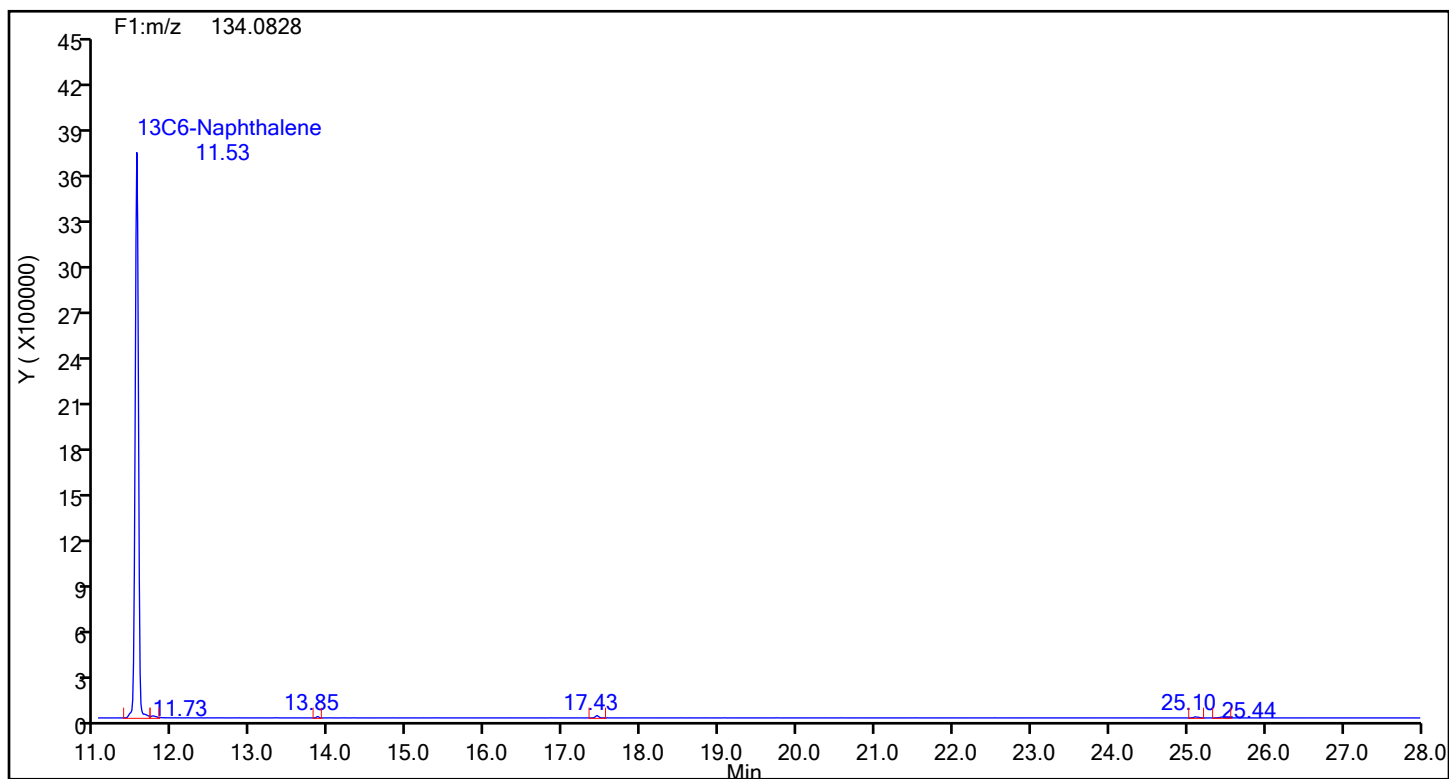


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

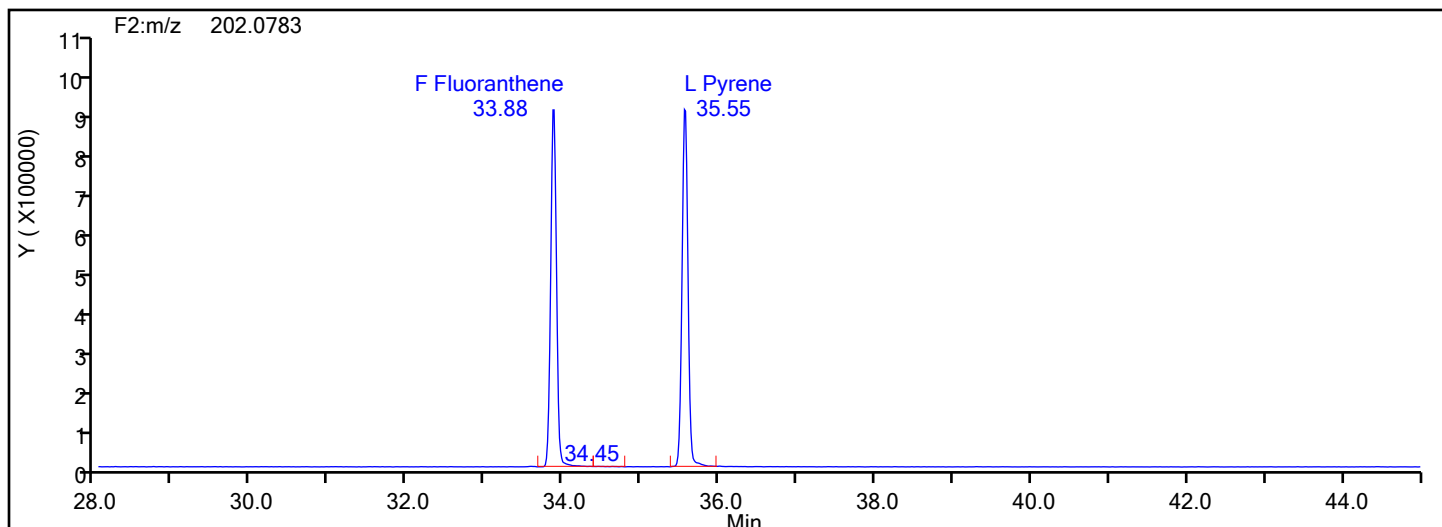


Anthracin-d10 Standards

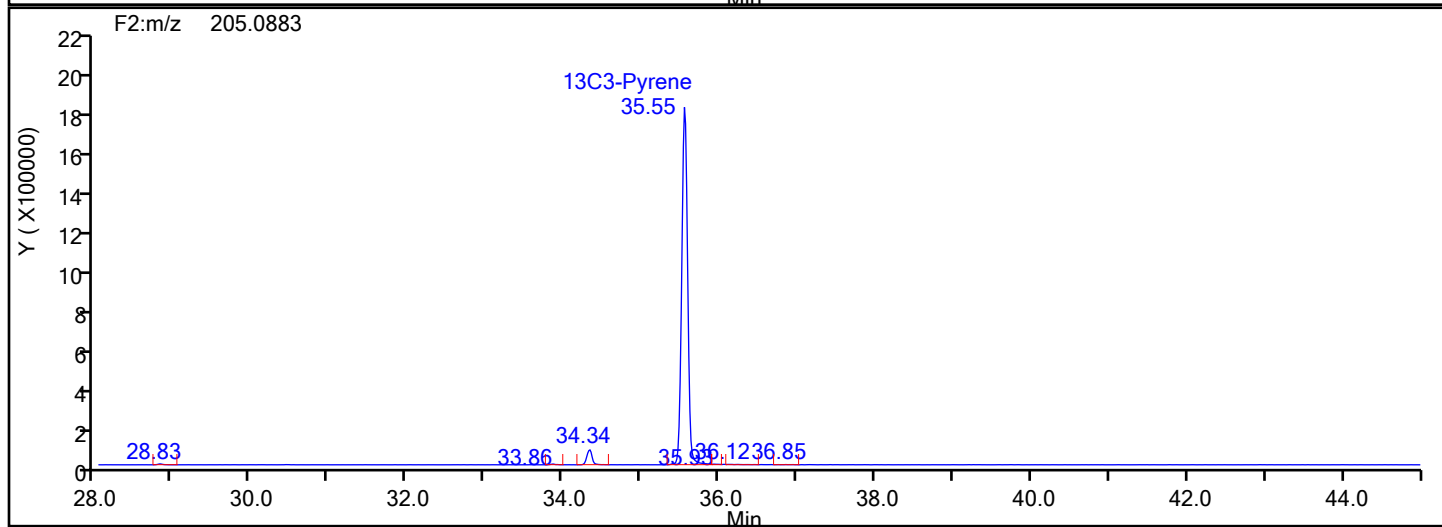
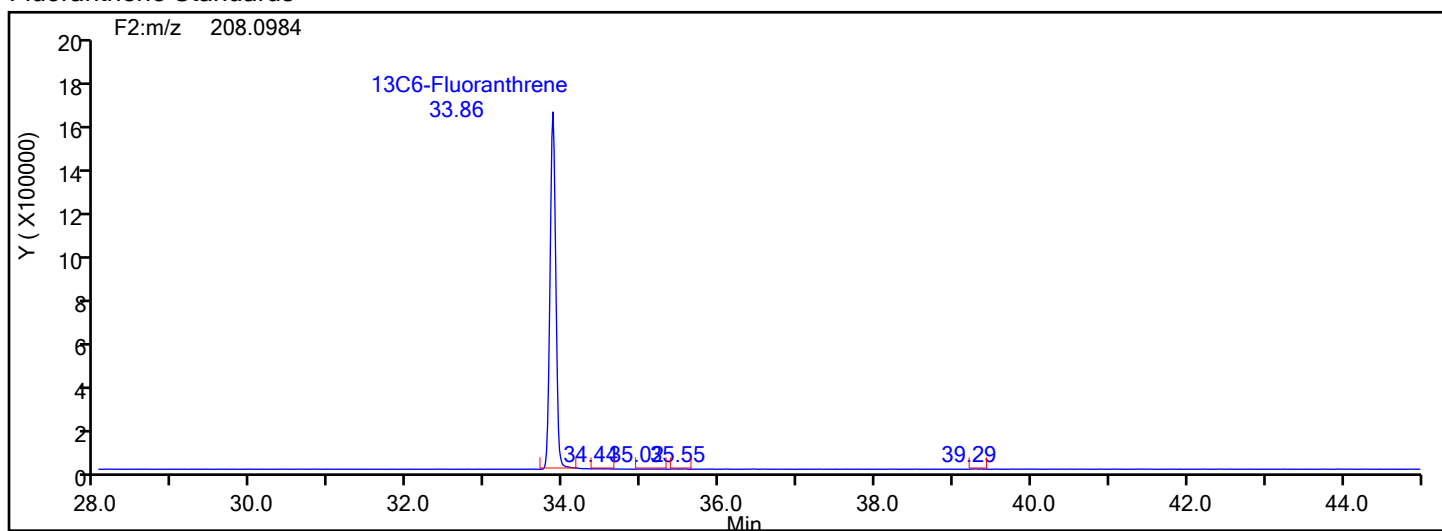


Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



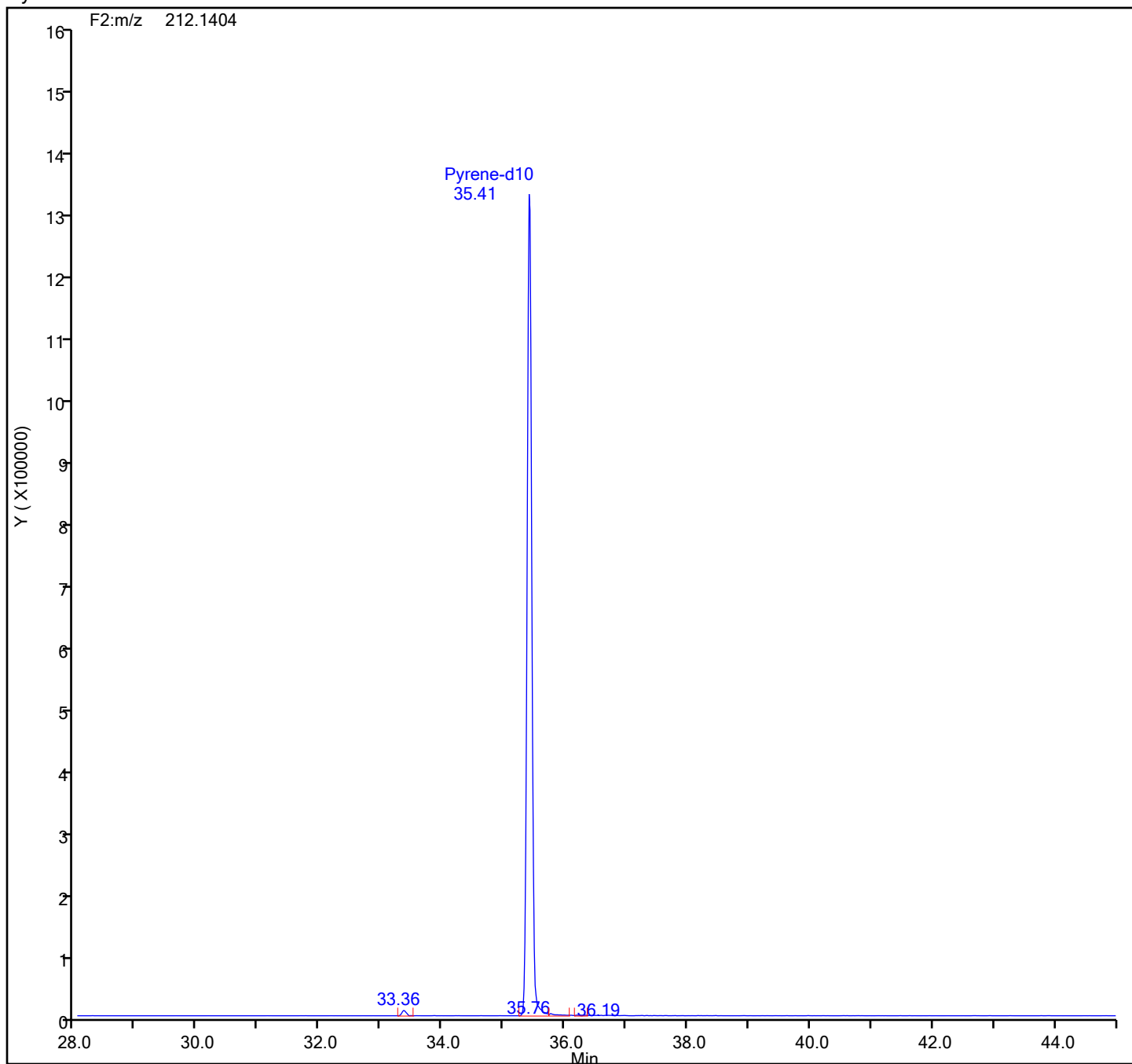
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

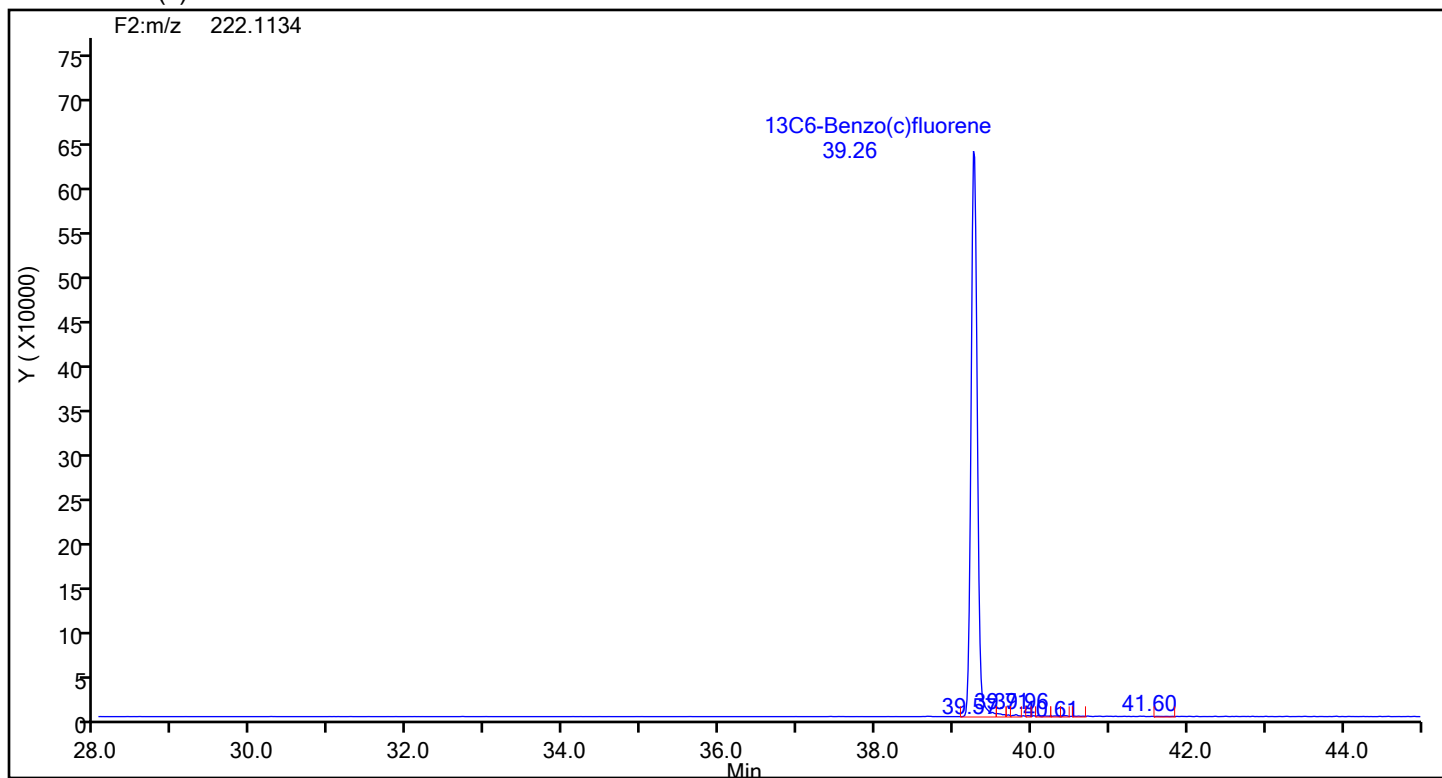
Pyrene-d10 Standards



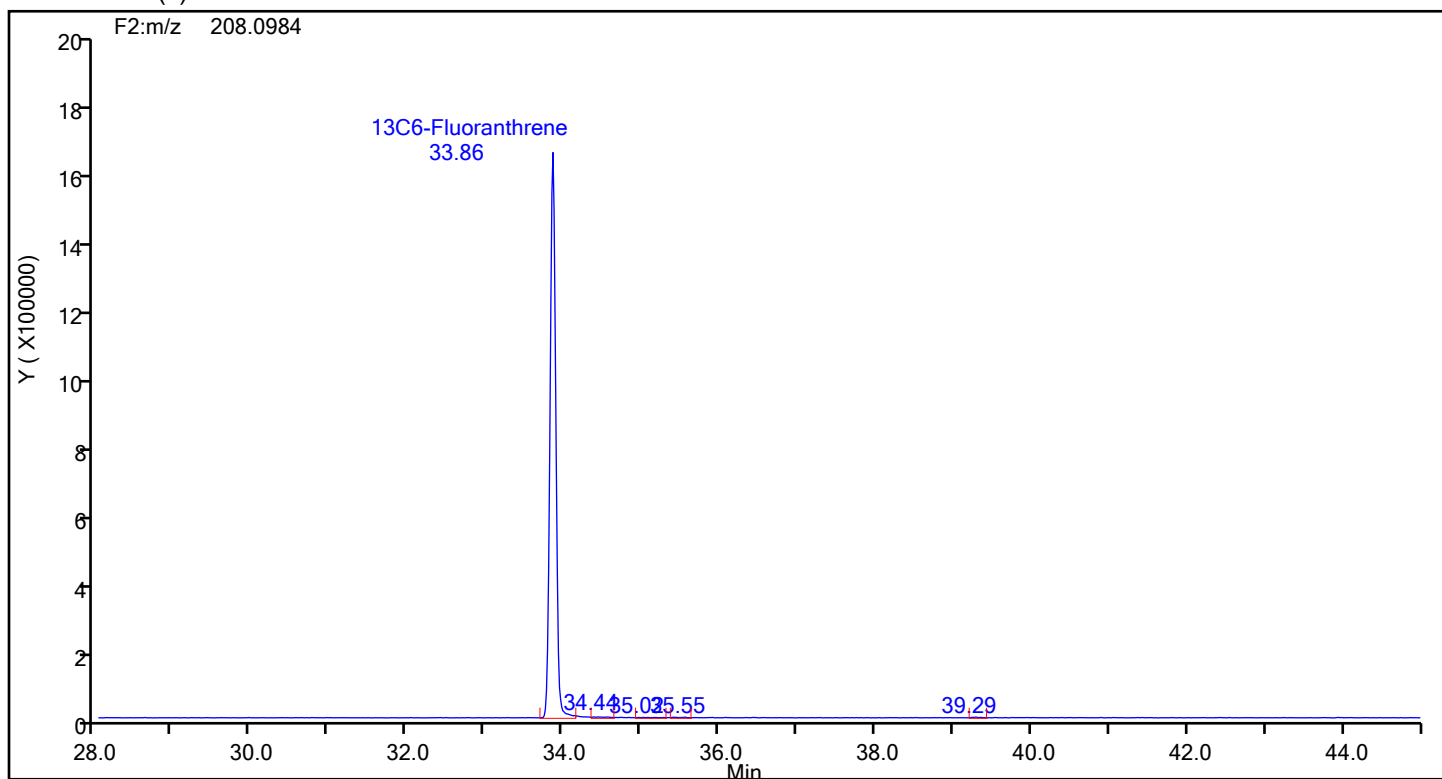
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



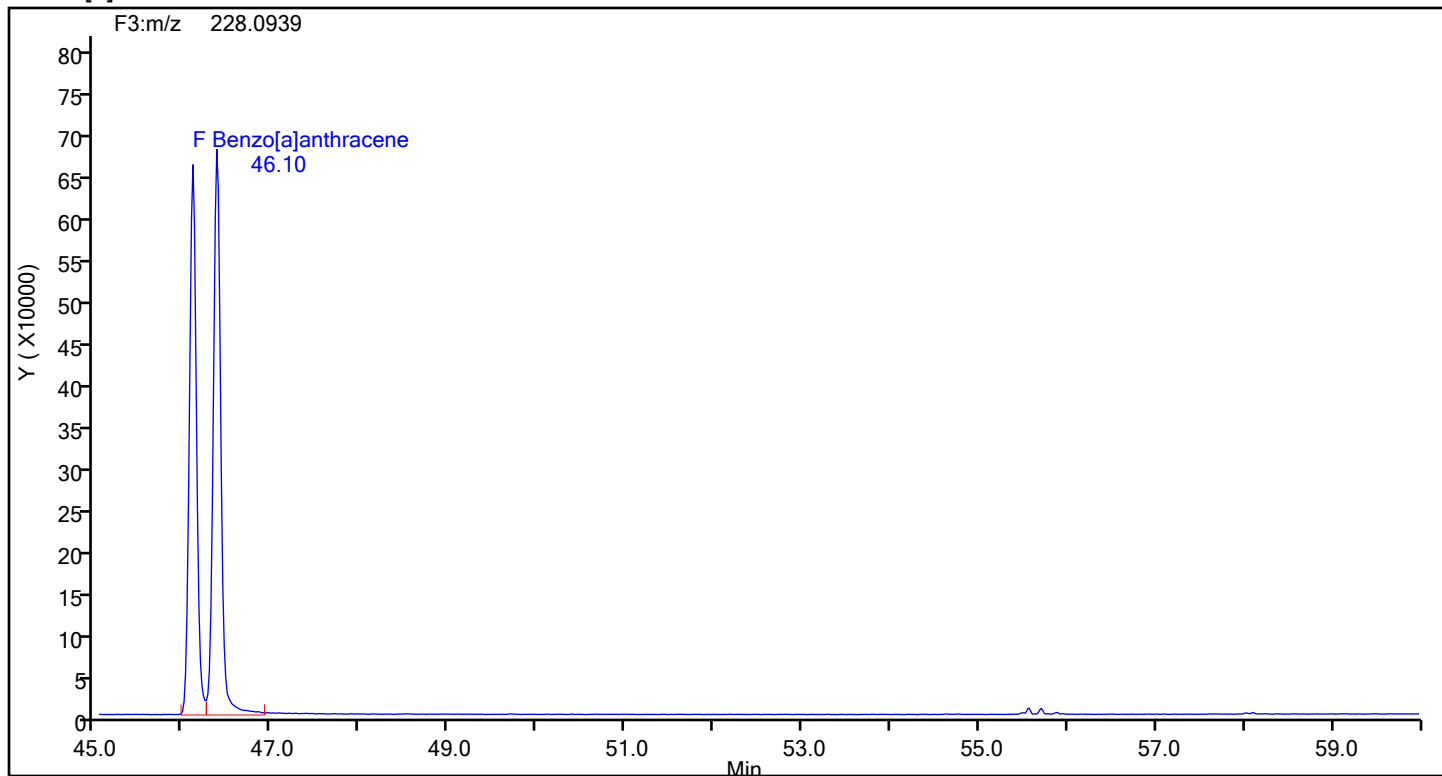
13C6-Benzo(c)fluorene Standards



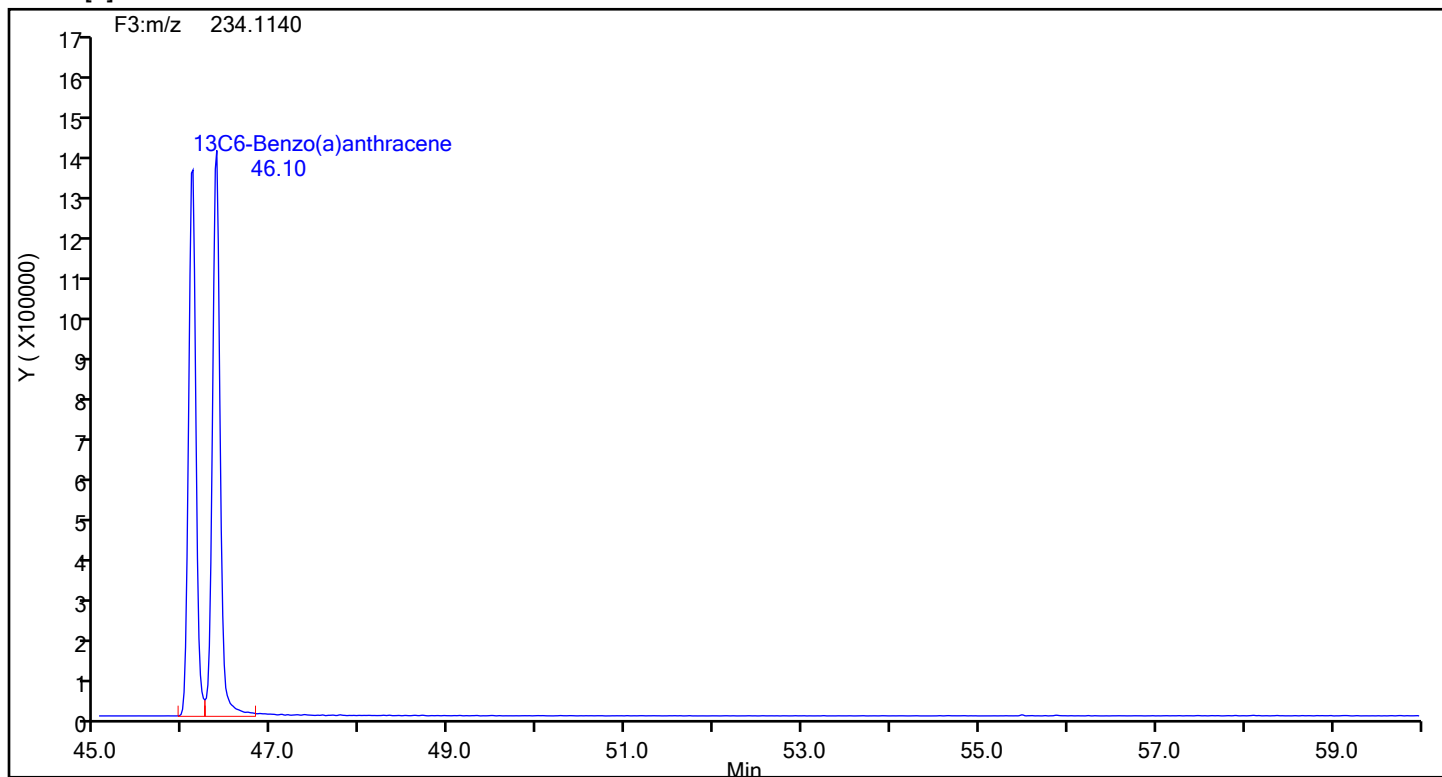
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



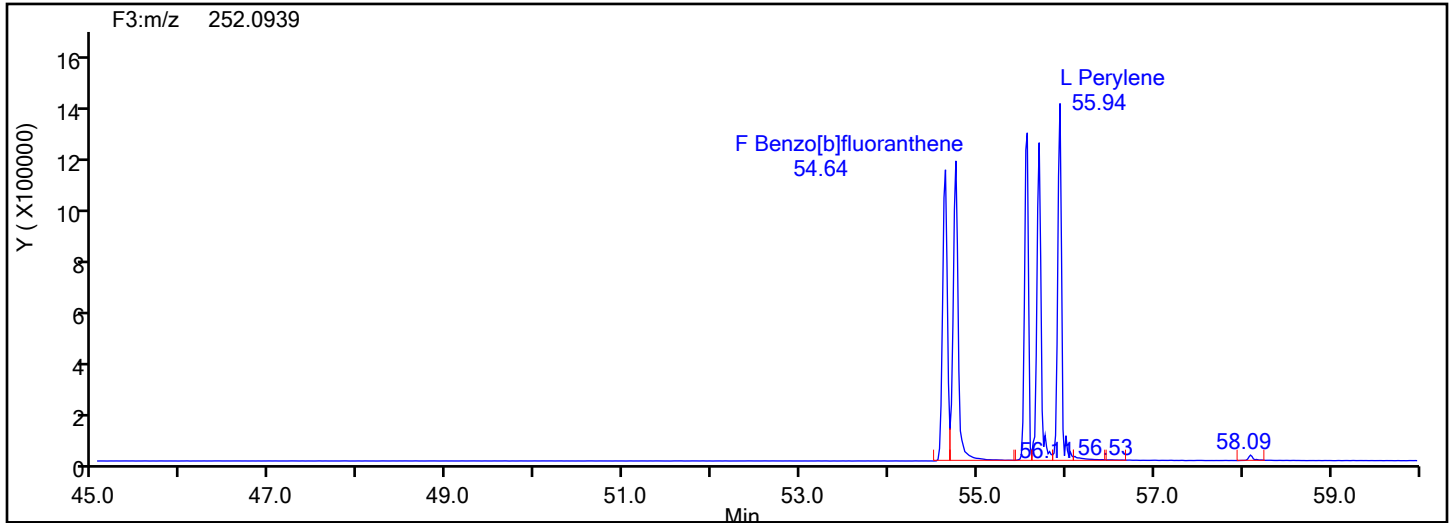
Benzo[a]anthracene Standards



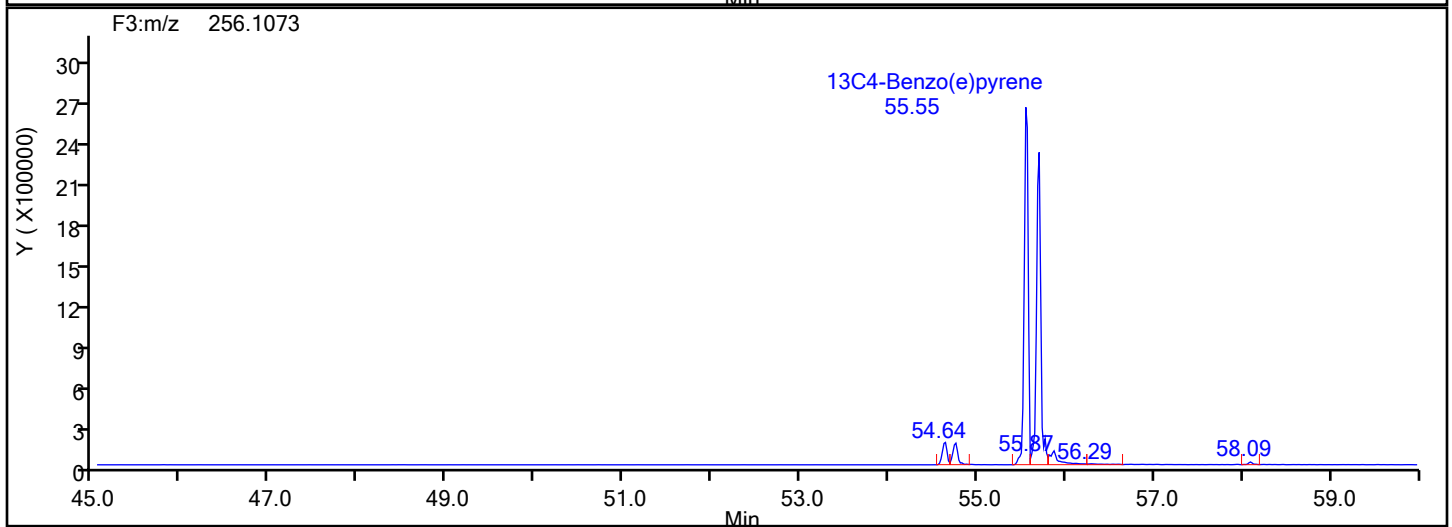
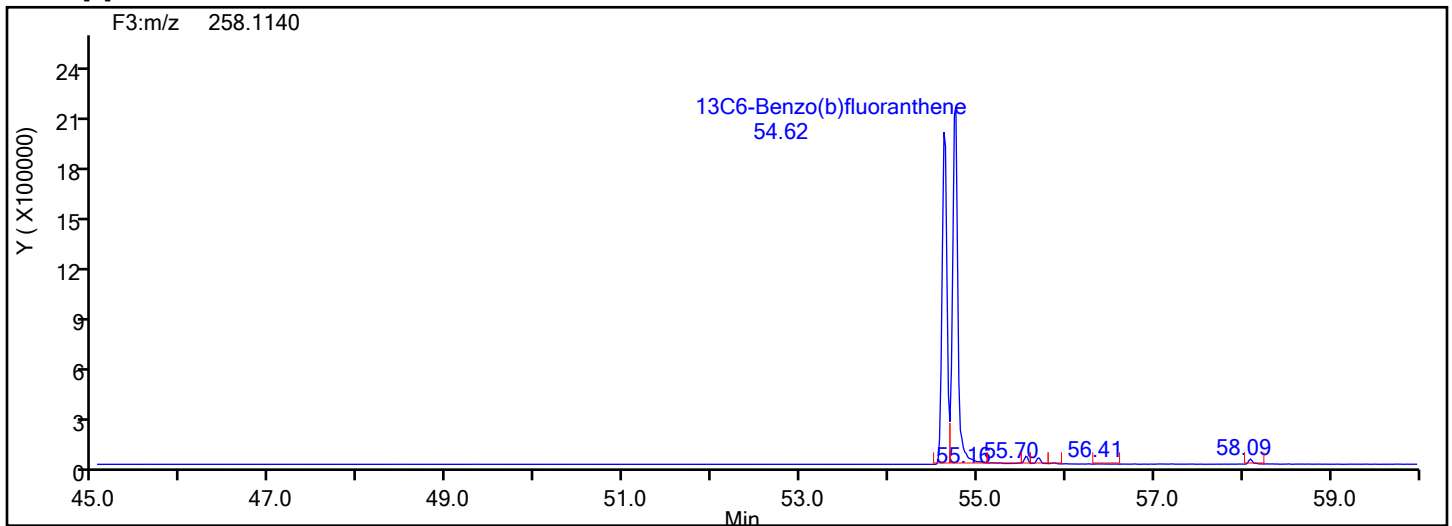
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



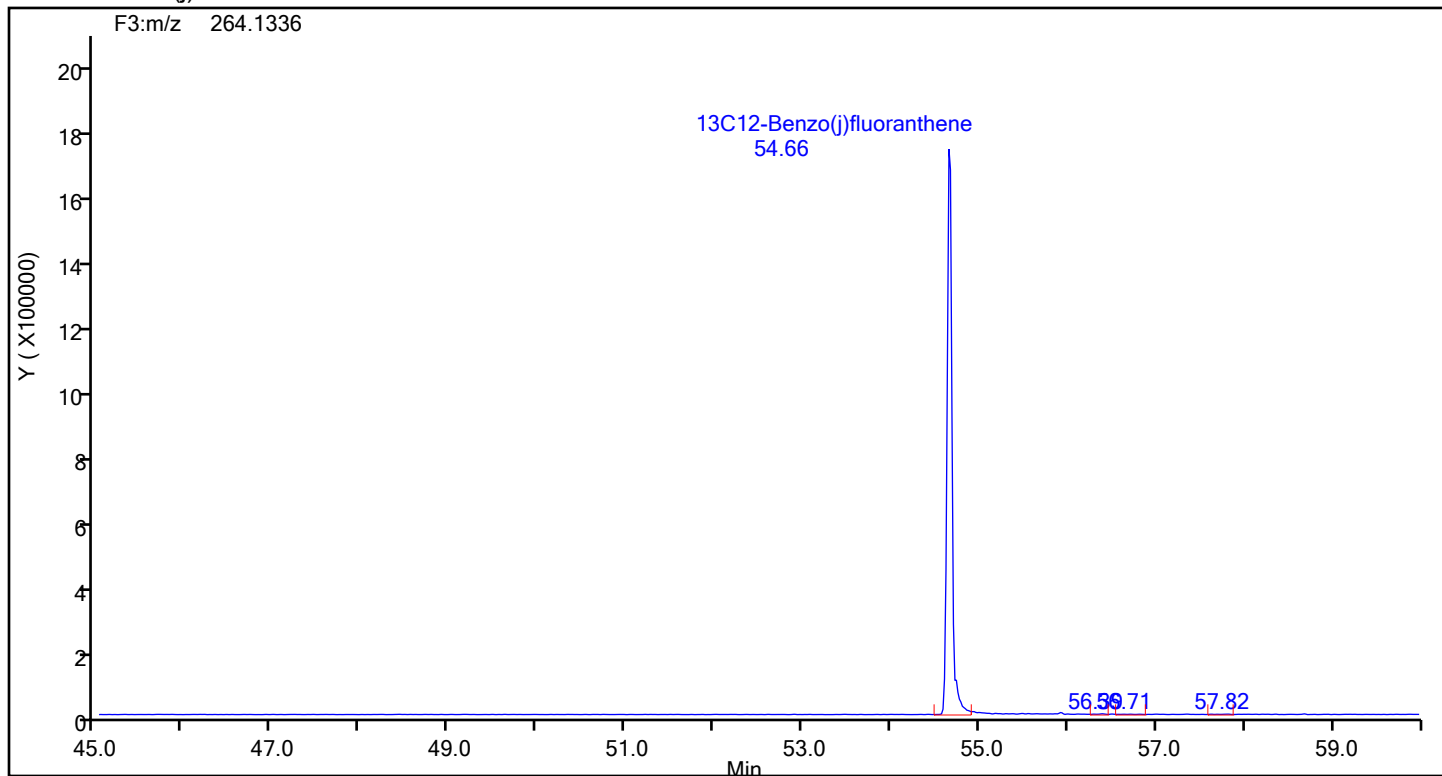
Benzo[b]fluoranthene Standards



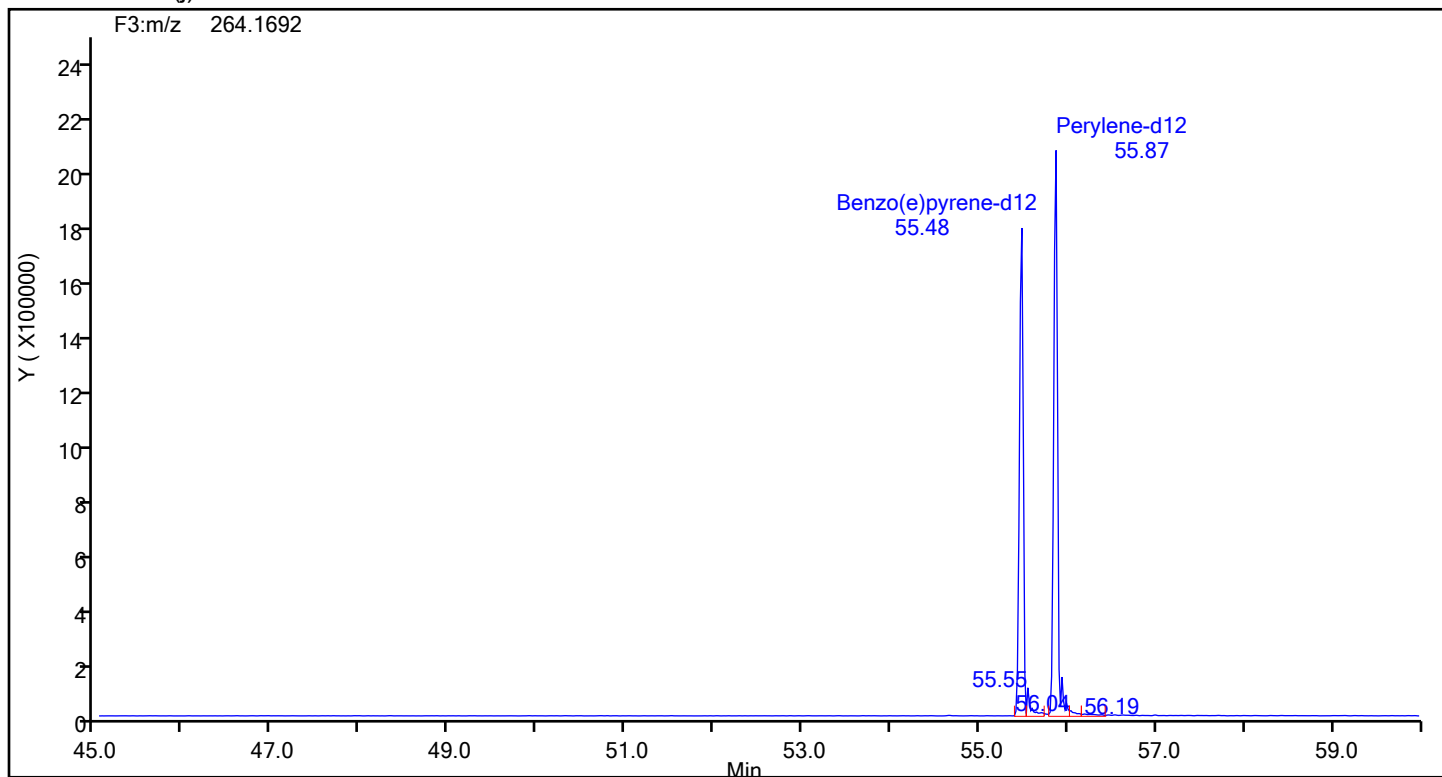
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



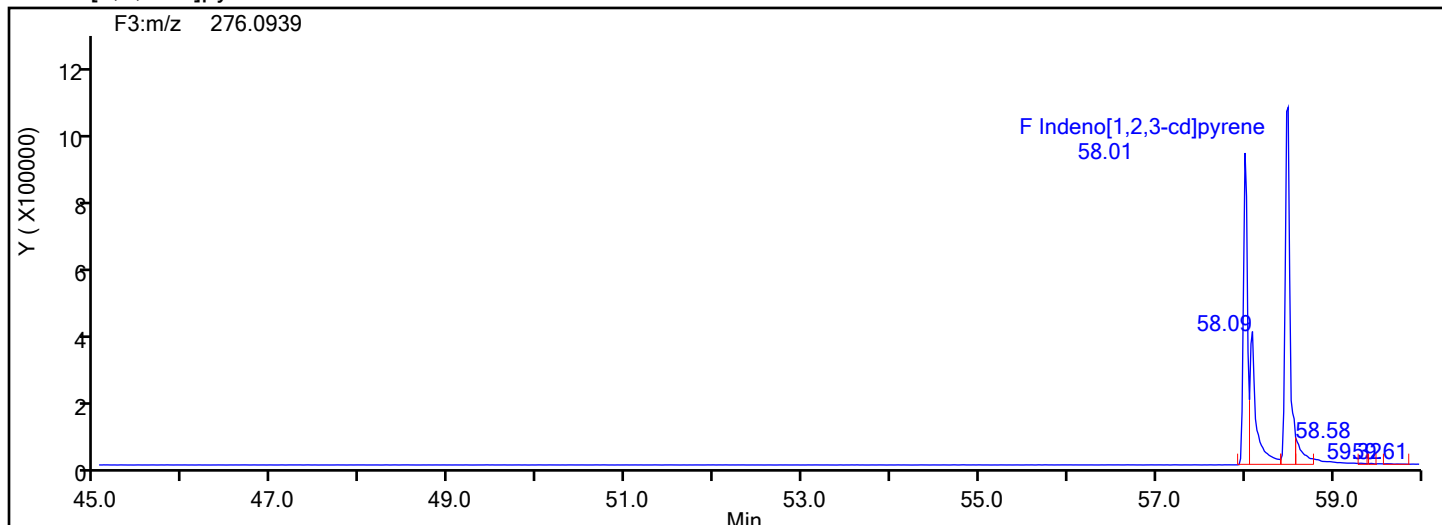
13C12-Benzo(j)fluoranthene Standards



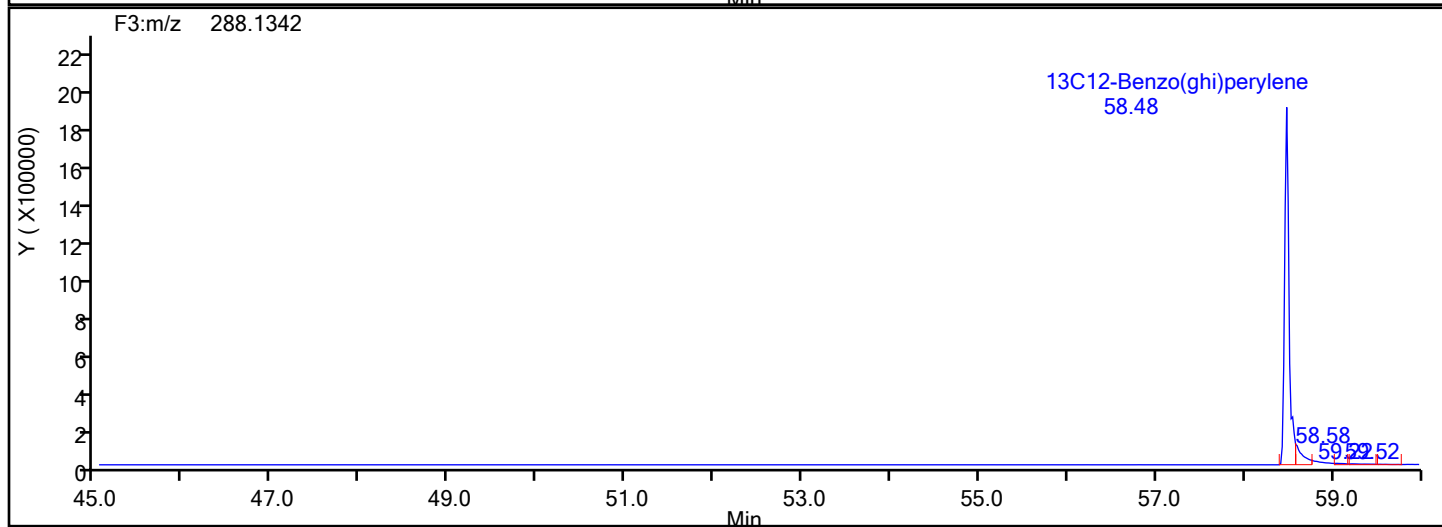
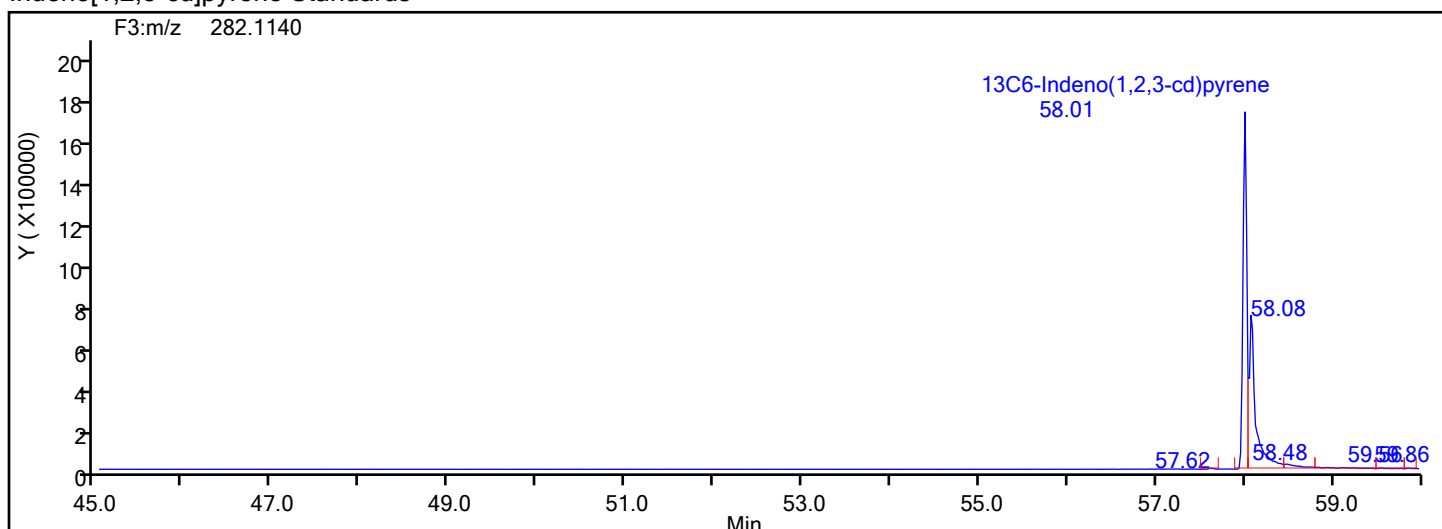
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

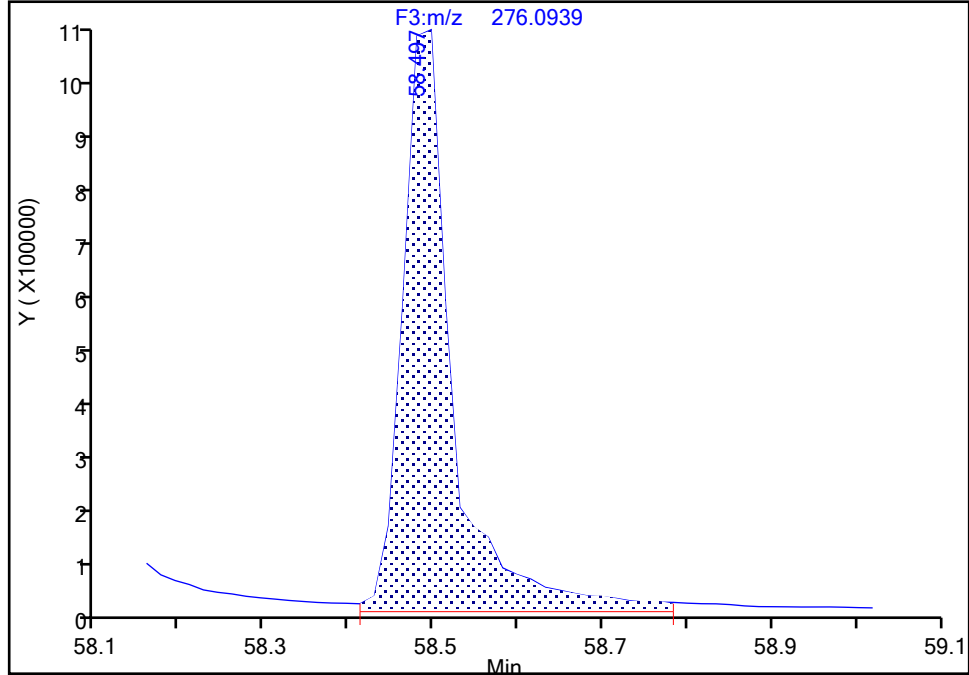
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Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

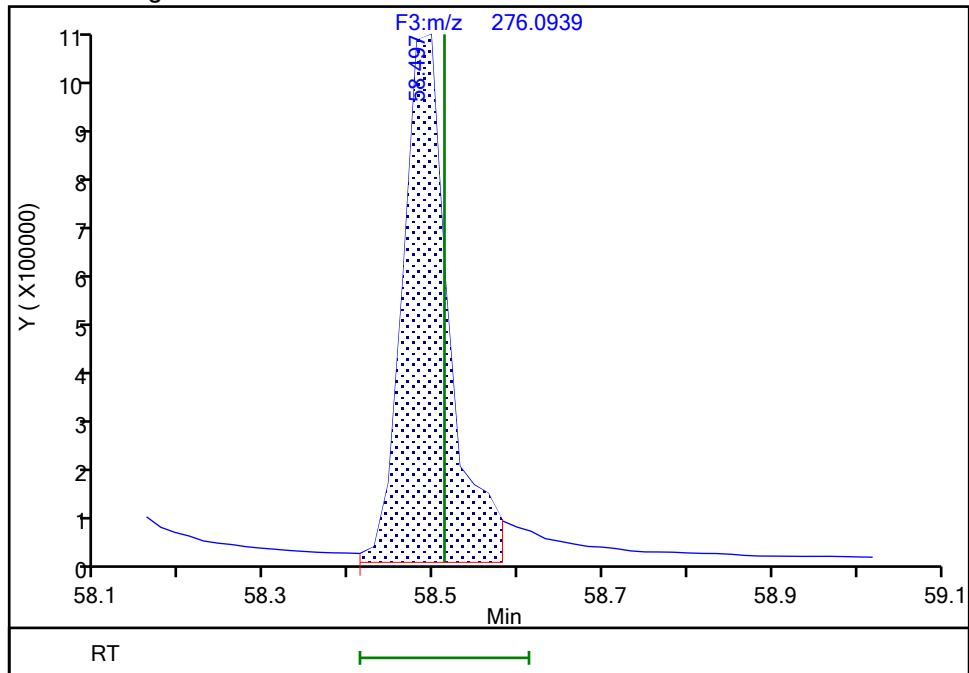
RT: 58.50
Area: 4298581
Amount: 50.251920
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 3911770
Amount: 46.506324
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:45 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

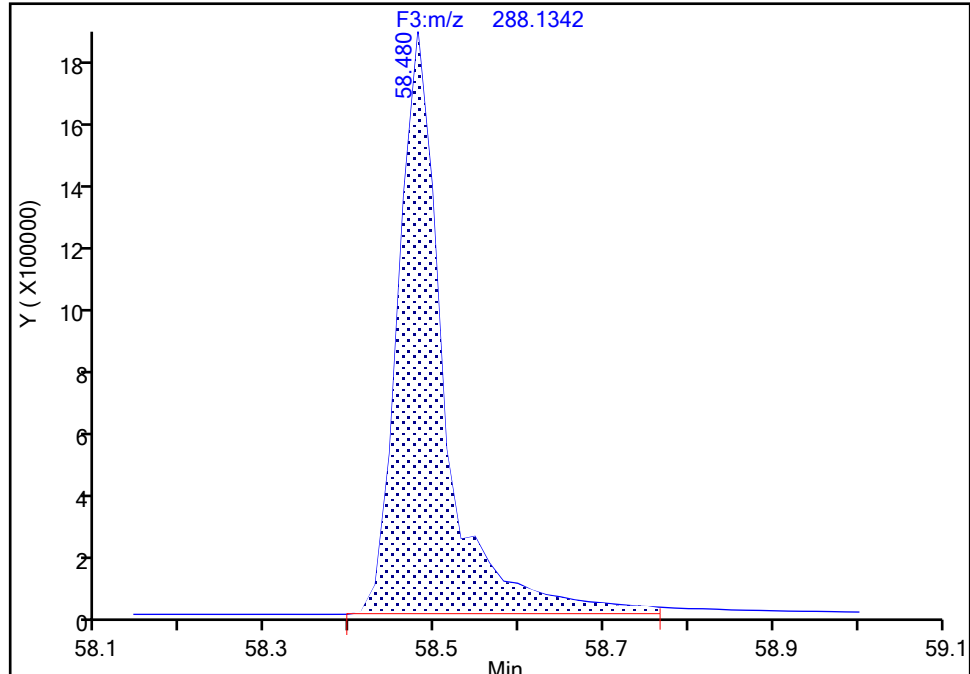
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Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

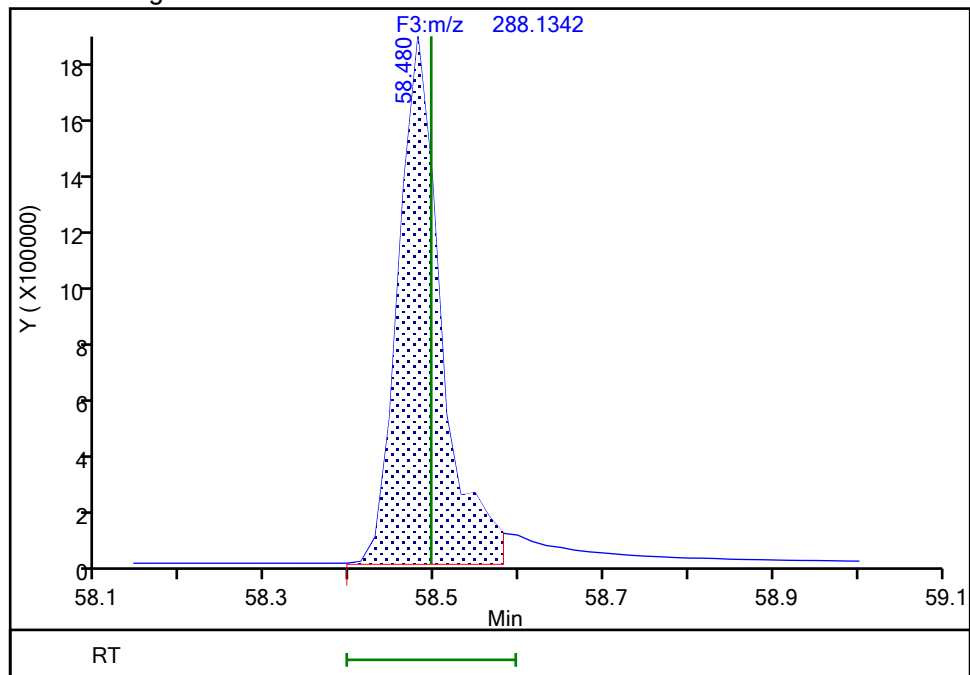
RT: 58.48
Area: 7074332
Amount: 100.4728
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
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Amount: 96.635821
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:40 -04:00:00 (UTC)

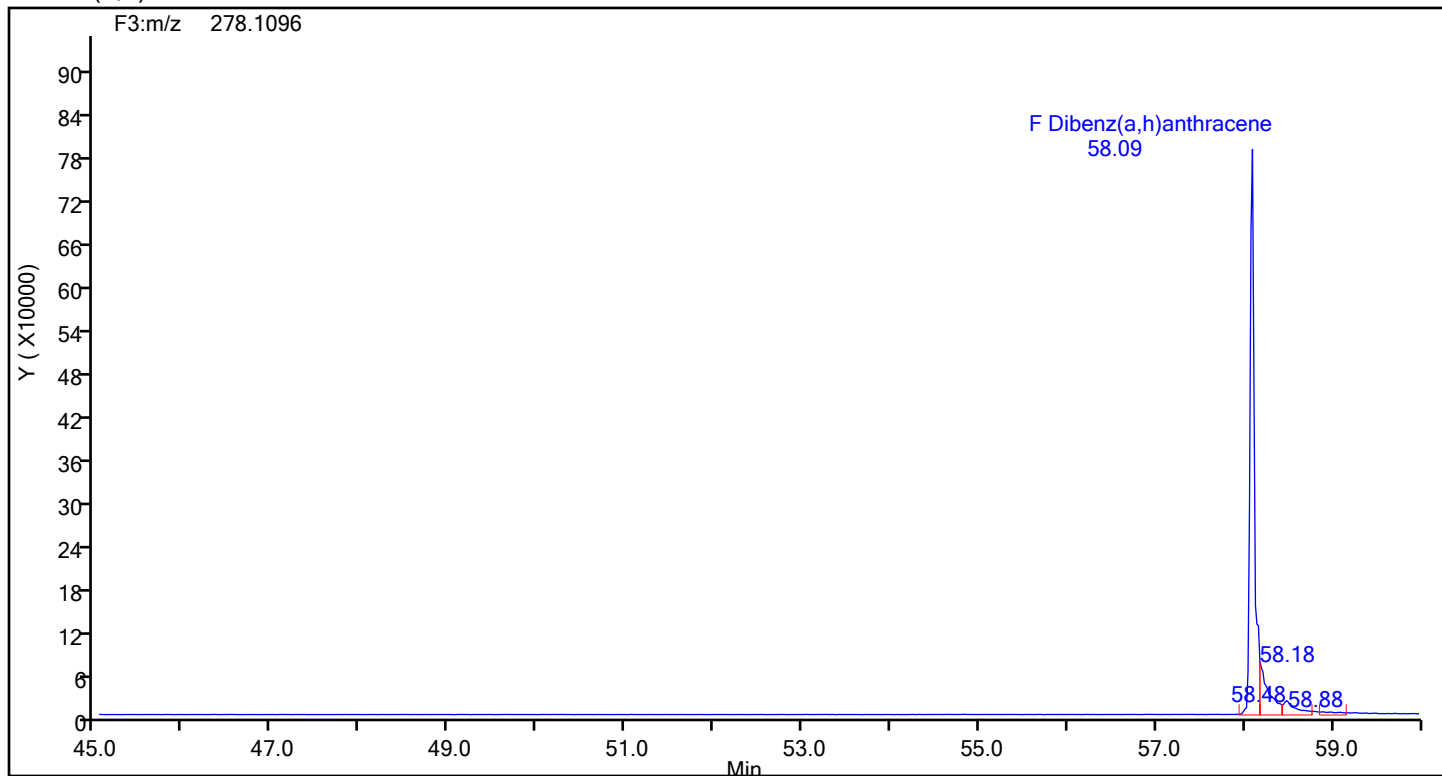
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

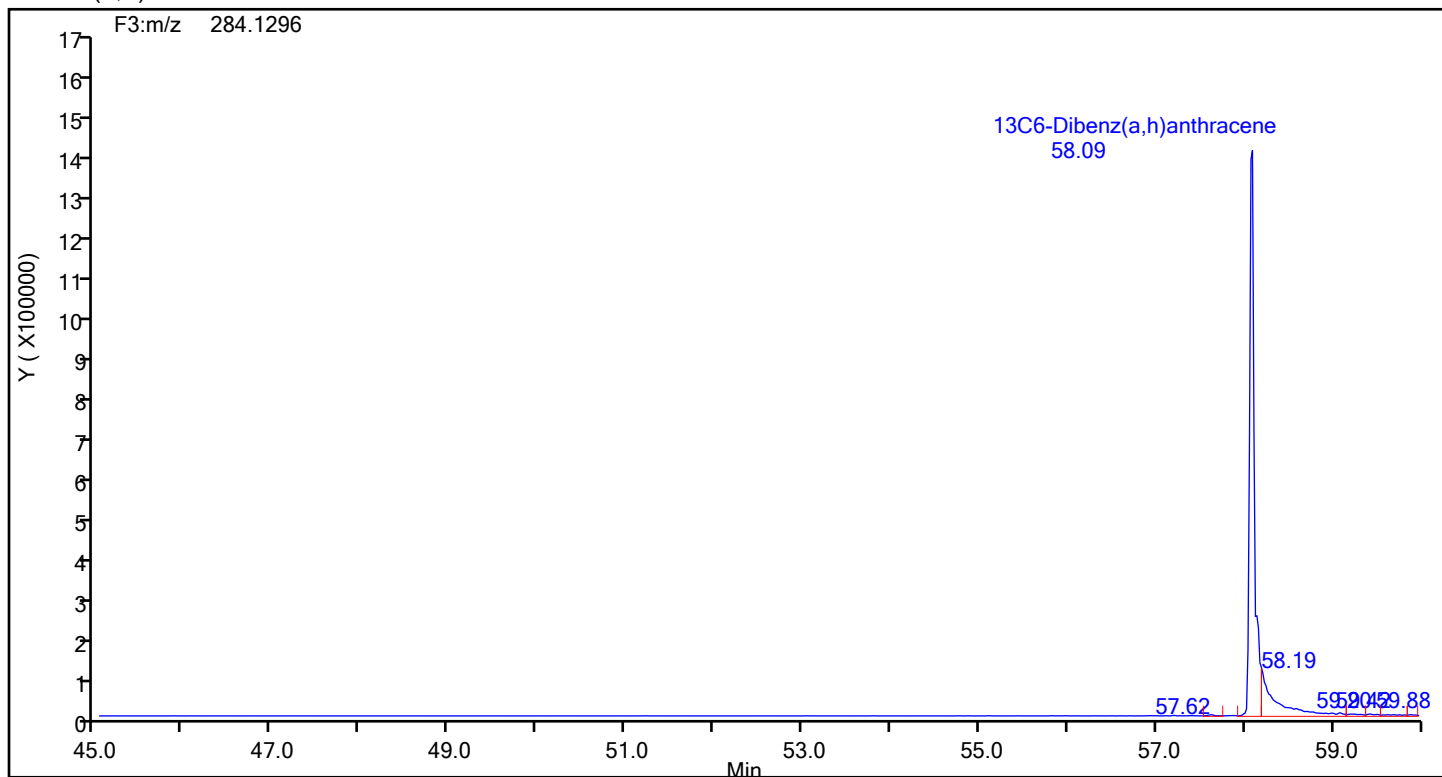
Eurofins Knoxville

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Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 5
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

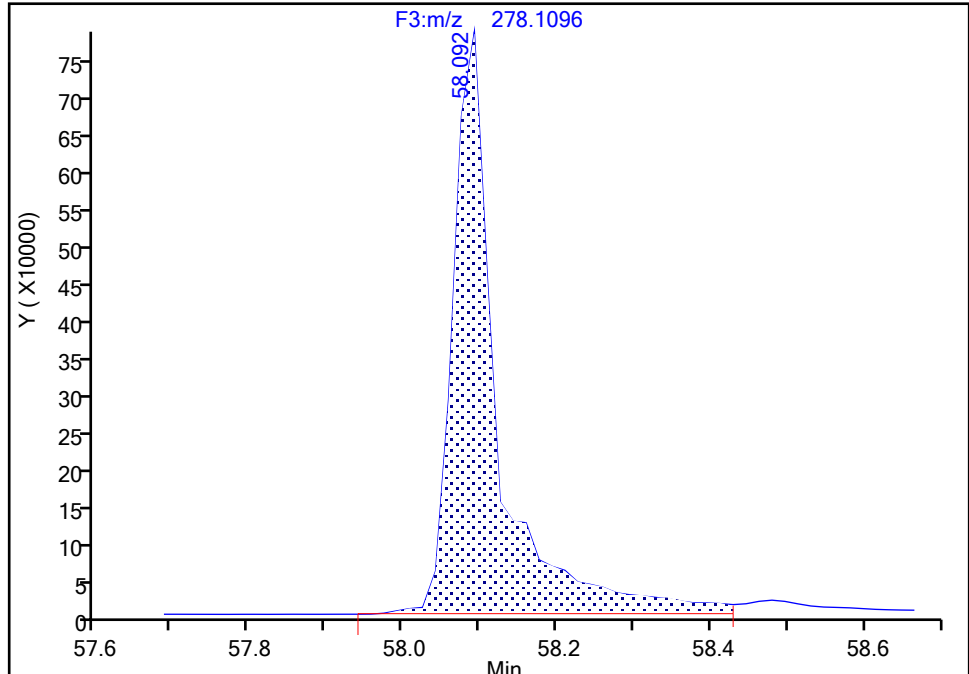
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Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

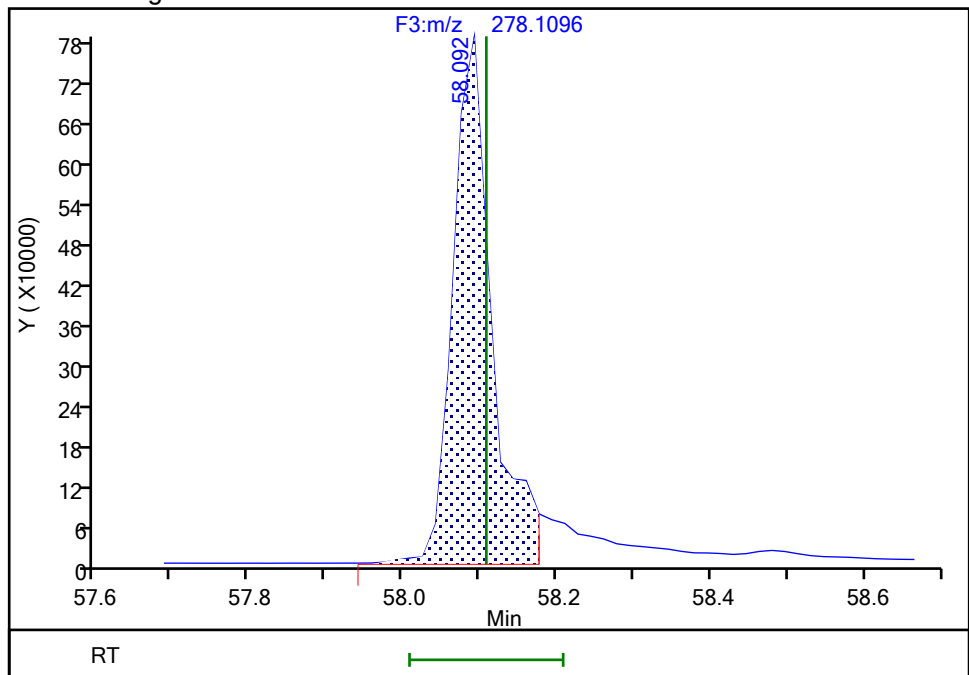
RT: 58.09
Area: 3230801
Amount: 52.313774
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 2789079
Amount: 45.677161
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

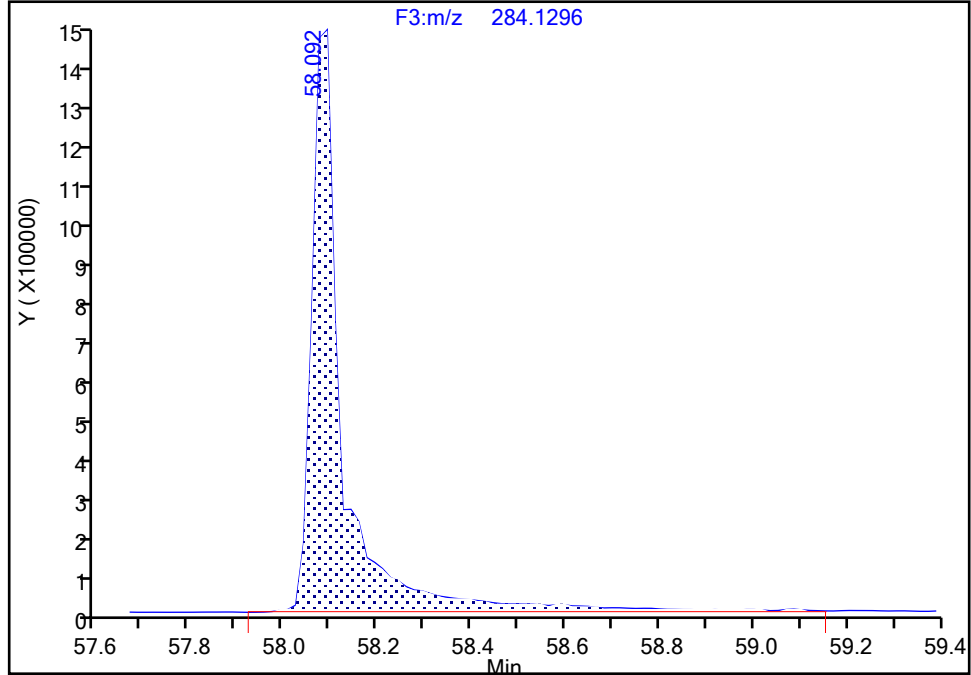
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Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

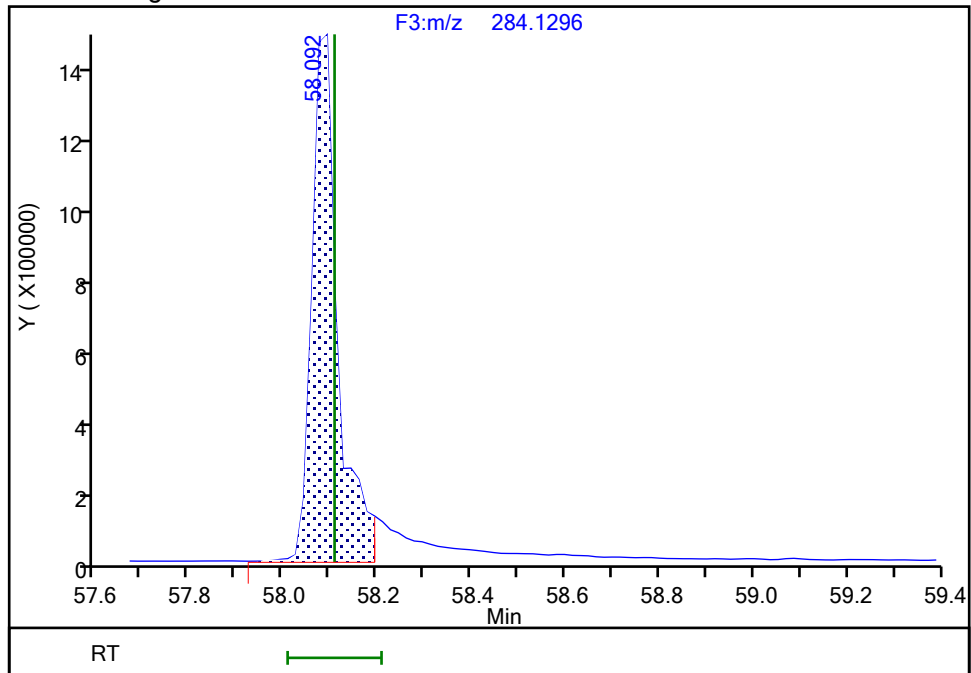
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Processing Integration Results



RT: 58.09
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10869499		3.3746	87.3	87.3	0.005990	0.005990	87.34	
Naphthalene	11:33	11077976		1.2893	79.1	79.1	0.0246	0.0246	98.81	
D 13C6-2-Methylnaphthalene	13:52	5726757		1.6031	96.9	96.9	0.000714	0.000714	96.86	
2-Methylnaphthalene	13:52	5812992		1.2786	79.4	79.4	0.0188	0.0188	99.24	
D 13C6-Acenaphthylene	16:44	6099396		1.6520	100.1	100.1	0.000554	0.000554	100	
Acenaphthylene	16:45	6459116		2.3661	75.8	75.8	0.0194	0.0194	94.79	
* Acenaphthene-d10	17:19	3688074		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3599722		0.9792	99.7	99.7	0.001168	0.001168	99.68	
Acenaphthene	17:27	3643698		1.2697	79.7	79.7	0.0244	0.0244	99.65	
D 13C6-Fluorene	19:44	3234715		0.8898	98.6	98.6	0.000429	0.000429	98.57	
Fluorene	19:44	3186786		1.2532	78.6	78.6	0.0301	0.0301	98.27	
D 13C6-Phenanthrene	25:07	4194540		0.5724	94.8	94.8	0.004224	0.004224	94.77	
Phenanthrene	25:07	3681835		1.1044	79.5	79.5	0.0392	0.0392	99.35	
\$ Anthracin-d10	25:20	3216411		0.4257	97.7	97.7	0.002434	0.002434	97.72	
D 13C6-Anthracene	25:27	3339808		0.4523	95.5	95.5	0.005346	0.005346	95.49	
Anthracene	25:27	3587223		1.3586	79.1	79.1	0.0421	0.0421	98.82	
D 13C6-Fluoranthrene	33:52	9143194		1.1994	98.6	98.6	0.0194	0.0194	98.60	
Fluoranthene	33:53	8083123		1.1513	76.8	76.8	0.0136	0.0136	95.98	
* Pyrene-d10	35:25	7731706		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10295818		1.3512	98.6	98.6	0.0129	0.0129	98.55	
Pyrene	35:34	8469657		1.0652	77.2	77.2	0.0135	0.0135	96.53	
\$ 13C6-Benzo(c)fluorene	39:17	4139575		0.5136	104.2	104.2	0.002960	0.002960	104	
D 13C6-Benzo(a)anthracene	46:06	8168778		1.5189	92.6	92.6	0.0133	0.0133	92.56	
Benzo[a]anthracene	46:07	6207787		0.9739	78.0	78.0	0.0268	0.0268	97.54	
D 13C6-Chrysene	46:23	8805464		1.6287	93.0	93.0	0.0124	0.0124	93.04	
Chrysene	46:23	6667789		0.9815	77.2	77.2	0.0263	0.0263	96.44	
D 13C6-Benzo(b)fluoranthene	54:38	8052237		1.4621	94.8	94.8	0.000932	0.000932	94.78	
Benzo[b]fluoranthene	54:39	6952921		1.1249	76.8	76.8	0.007696	0.007696	95.95	
\$ 13C12-Benzo(j)fluoranthene	54:40	7440700		1.3558	94.4	94.4	0.0141	0.0141	94.45	
D 13C6-Benzo(k)fluoranthene	54:46	9461461		1.7507	93.0	93.0	0.000778	0.000778	93.01	
Benzo[k]fluoranthene	54:46	7954022		1.1271	74.6	74.6	0.007085	0.007085	93.24	
* Benzo(e)pyrene-d12	55:30	5810473		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9036295		1.6368	95.0	95.0	0.0133	0.0133	95.01	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	6804856		1.0013	75.2	75.2	0.006475	0.006475	94.01	
Benzo[a]pyrene	55:43	7072659		1.1130	75.5	75.5	0.006815	0.006815	94.40	
D 13C4-Benzo(a)pyrene	55:43	8413993		1.5508	93.4	93.4	0.0141	0.0141	93.38	
D Perylene-d12	55:53	6805855		1.1917	98.3	98.3	0.0152	0.0152	98.29	
Perylene	55:57	7312149		1.4307	75.1	75.1	0.005707	0.005707	93.87	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5212706		1.0218	87.8	87.8	0.009707	0.009707	87.79	
Indeno[1,2,3-cd]pyrene	58:01	4742305		1.1249	80.9	80.9	0.007218	0.007218	101	
D 13C6-Dibenz(a,h)anthracene	58:05	5580937		1.0553	91.0	91.0	0.005784	0.005784	91.02	M
Dibenz(a,h)anthracene	58:06	4852505		1.1314	76.9	76.9	0.006054	0.006054	96.06	M
D 13C12-Benzo(ghi)perylene	58:30	7011632		1.2749	94.7	94.7	0.005558	0.005558	94.65	M
Benzo[g,h,i]perylene	58:30	6540833		1.2838	72.7	72.7	0.005631	0.005631	90.83	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

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Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
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Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10869499	3625973	106	265	34207		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	11077976	3692357	461	1152	8009		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5726757	2589286	6	15	431548		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	5812992	2698054	249	622	10836		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	6099396	2156421	5	12	431284		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	6459116	2248213	232	580	9691		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3688074	1311036	1	2	1311036		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3599722	1263507	6	15	210585		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	3643698	1278130	157	392	8141		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3234715	932326	2	5	466163		
Fluorene											
166.0783	19:44	19:45	-1	1.001	3186786	933950	141	352	6624		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4194540	970097	14	35	69293		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	3681835	848869	168	420	5053		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3216411	735648	6	15	122608		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3339808	735076	14	35	52505		
Anthracene											
178.0783	25:27	25:28	-1	1.000	3587223	812516	168	420	4836		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9143194	1757365	135	337	13018		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	8083123	1556738	110	275	14152		
Pyrene-d10											
212.1404	35:25	35:27	-2		7731706	1447359	45	112	32164		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	10295818	1911929	101	252	18930		
Pyrene											
202.0783	35:34	35:35	-1	1.000	8469657	1575706	110	275	14325		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4139575	754812	9	22	83868		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8168778	1438631	149	372	9655		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	6207787	1112833	150	375	7419		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.310	8805464	1454322	149	372	9761		
Chrysene											
228.0939	46:23	46:25	-2	1.000	6667789	1145408	150	375	7636		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8052237	2102138	10	25	210214		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	6952921	1836809	73	182	25162		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7440700	1837451	140	350	13125		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9461461	2279319	10	25	227932		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	7954022	1948646	73	182	26694		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5810473	1834824	133	332	13796		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9036295	2807461	160	400	17547		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	6804856	2213216	73	182	30318		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	7072659	2089671	73	182	28626		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8413993	2399289	160	400	14996		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6805855	2229131	133	332	16760		
Perylene											
252.0939	55:57	55:58	-1	1.001	7312149	2342635	73	182	32091		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5212706	1785870	73	182	24464		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	4742305	1516411	58	145	26145		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	5580937	1489164	45	112	33093		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	4852505	1323479	41	102	32280		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	-1	1.054	7011632	2005951	52	130	38576		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-2	1.000	6540833	1743896	58	145	30067		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5_00002

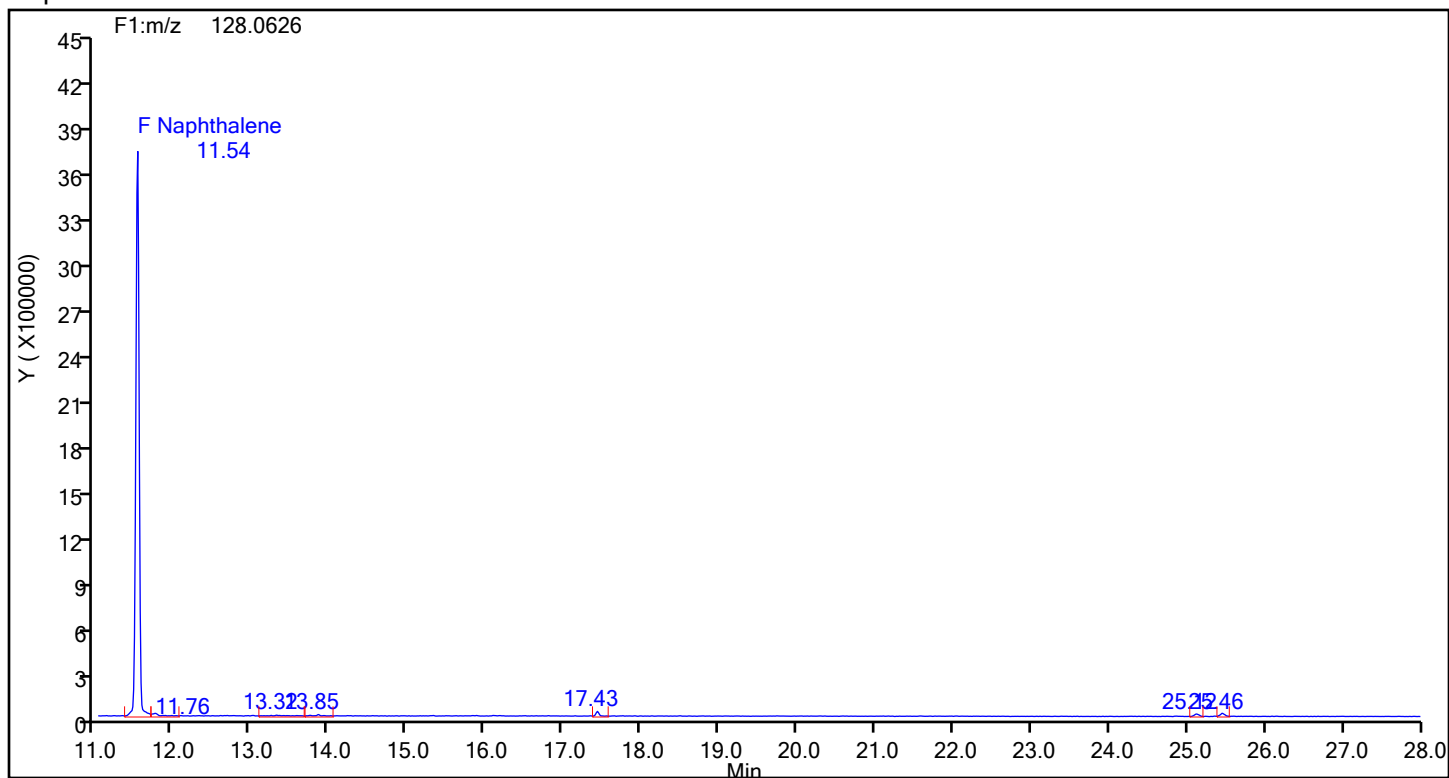
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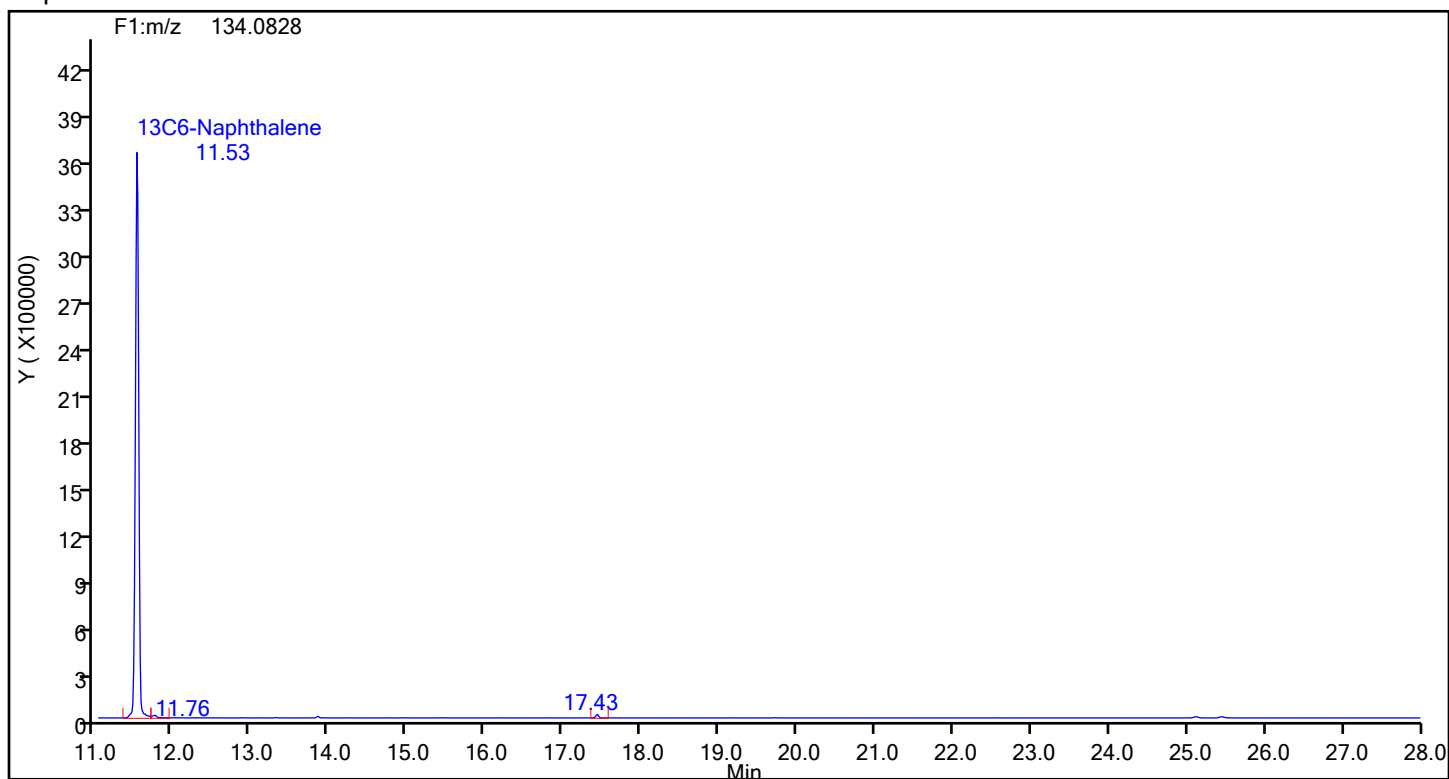
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Client ID:
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Naphthalene



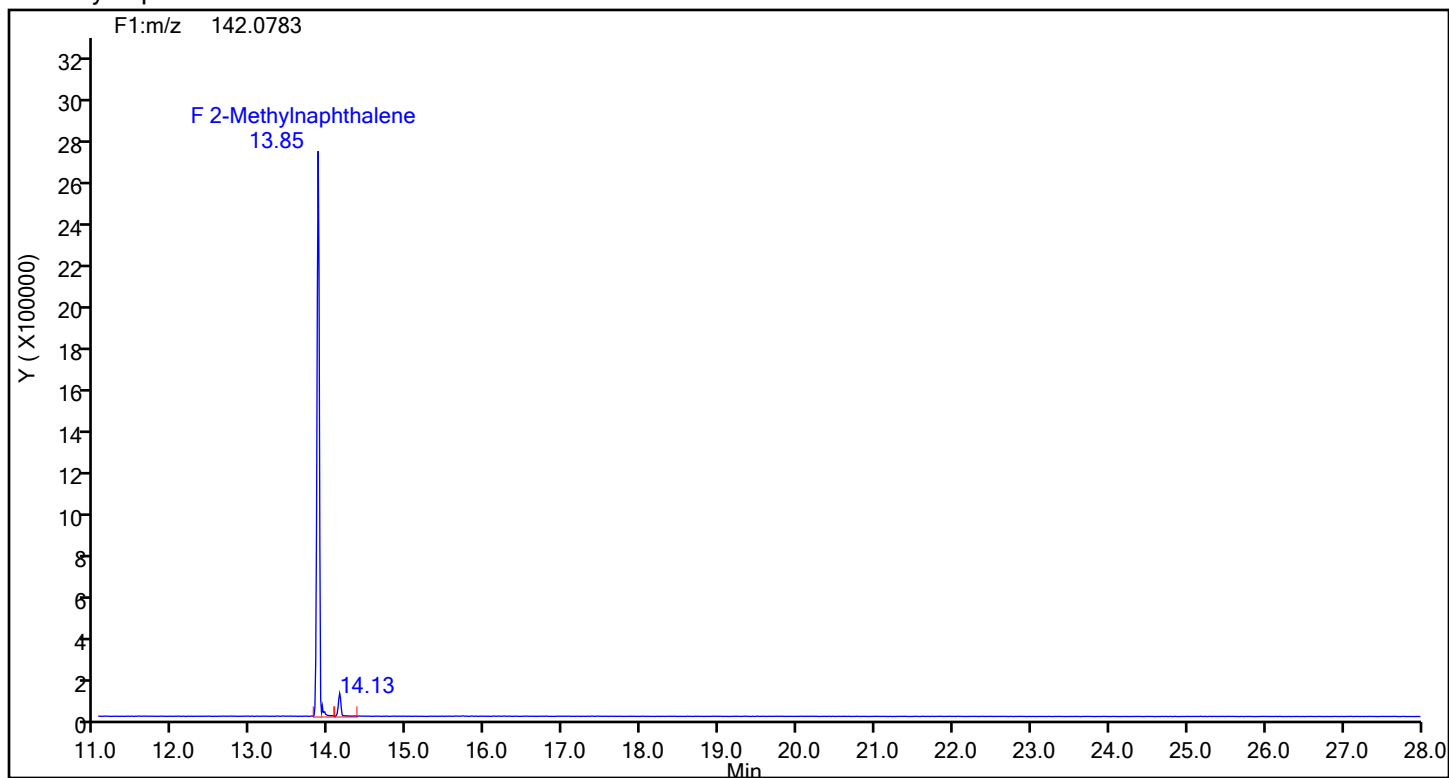
Naphthalene Standards



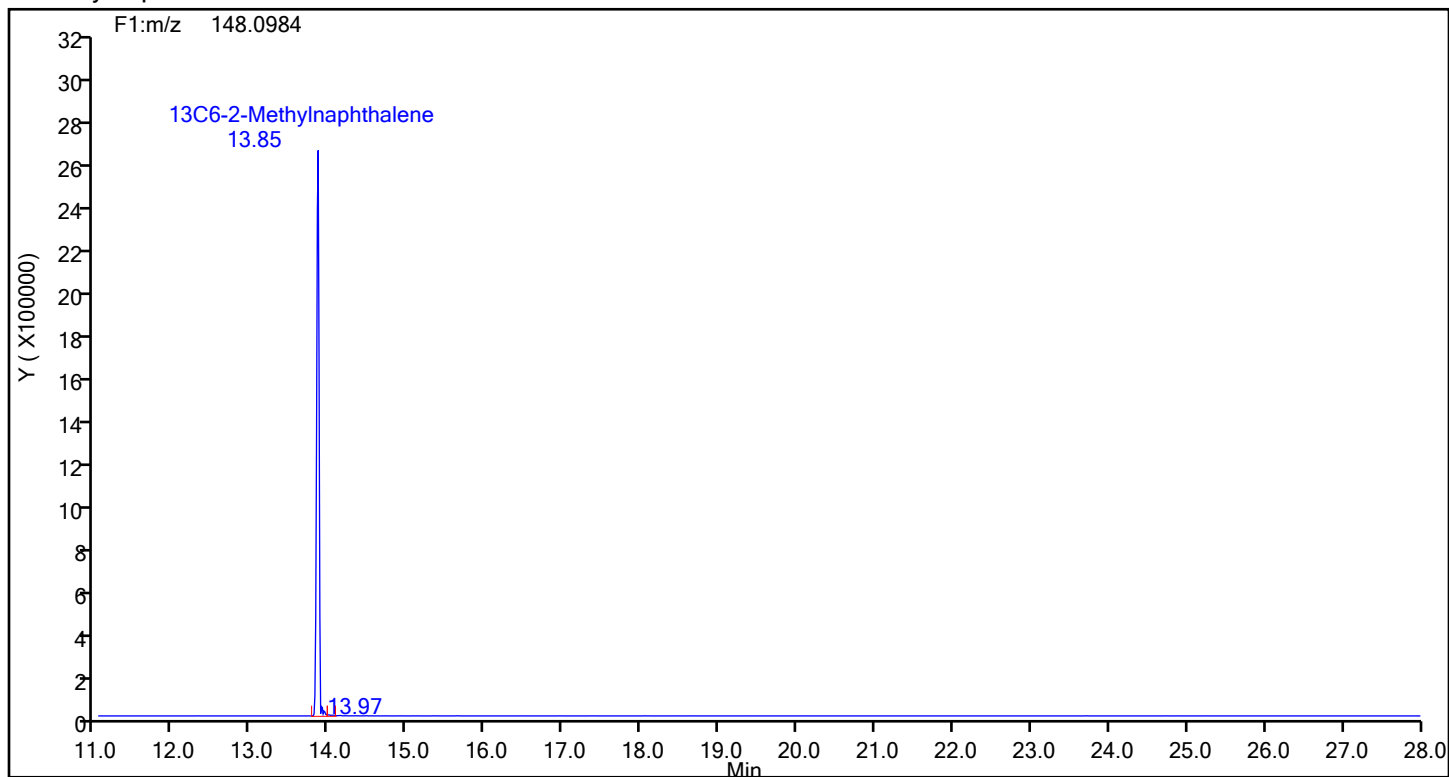
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2-Methylnaphthalene



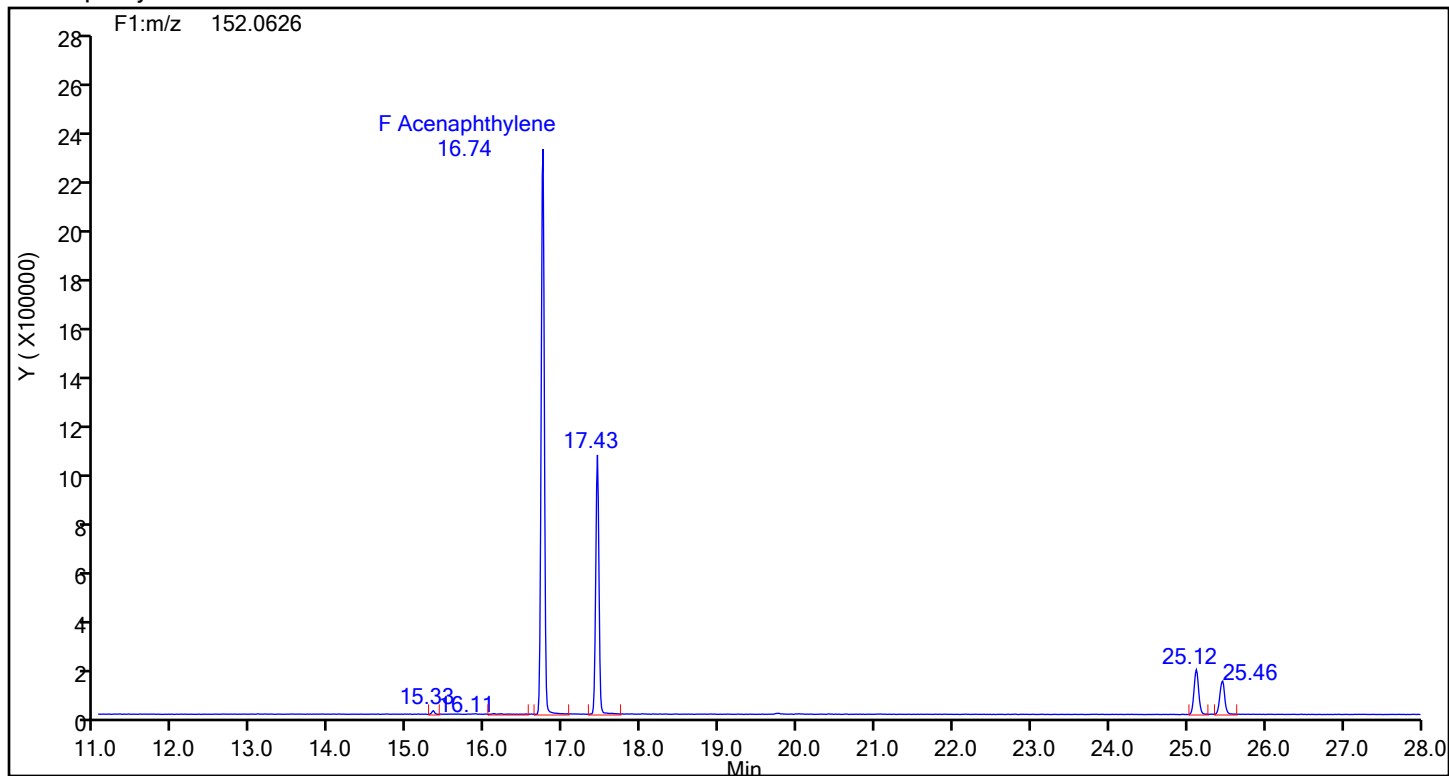
2-Methylnaphthalene Standards



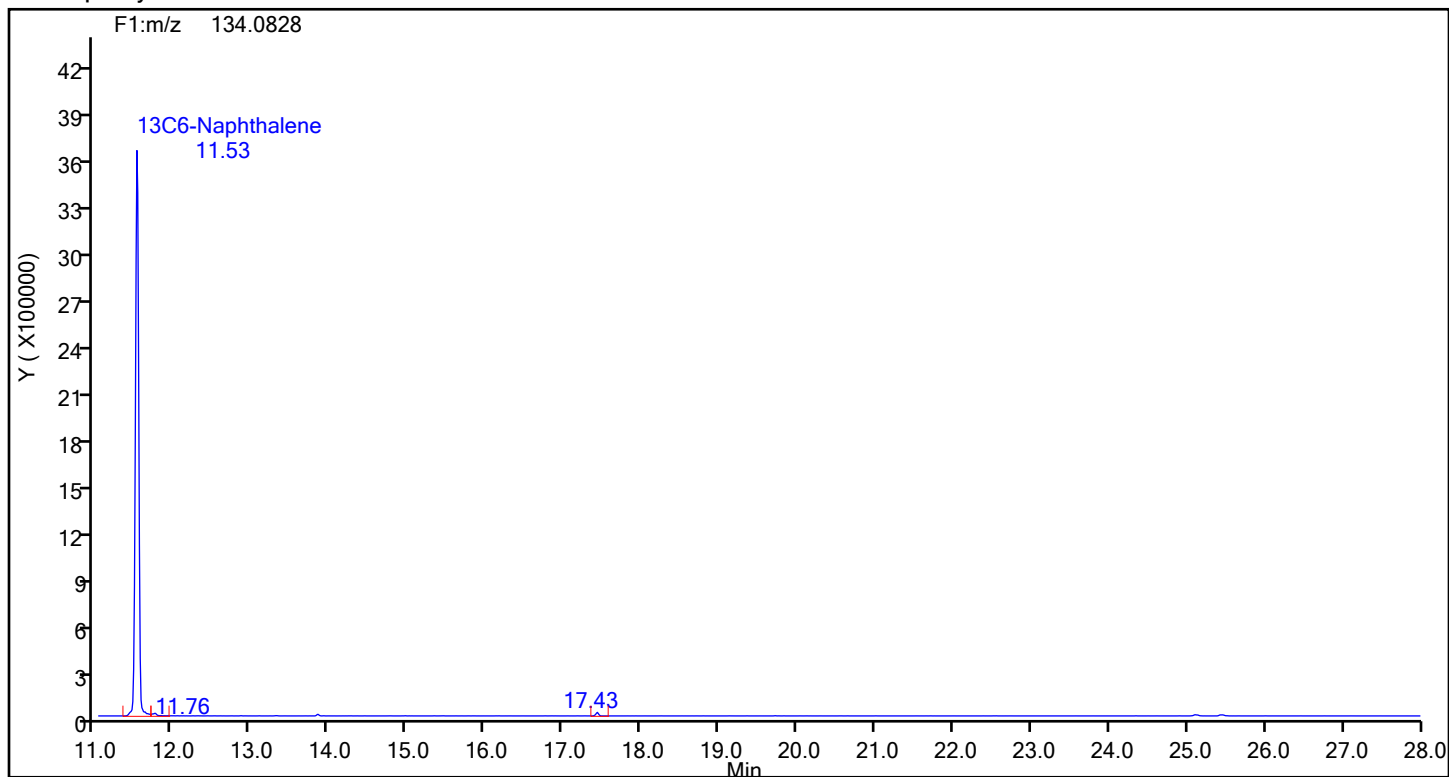
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Acenaphthylene



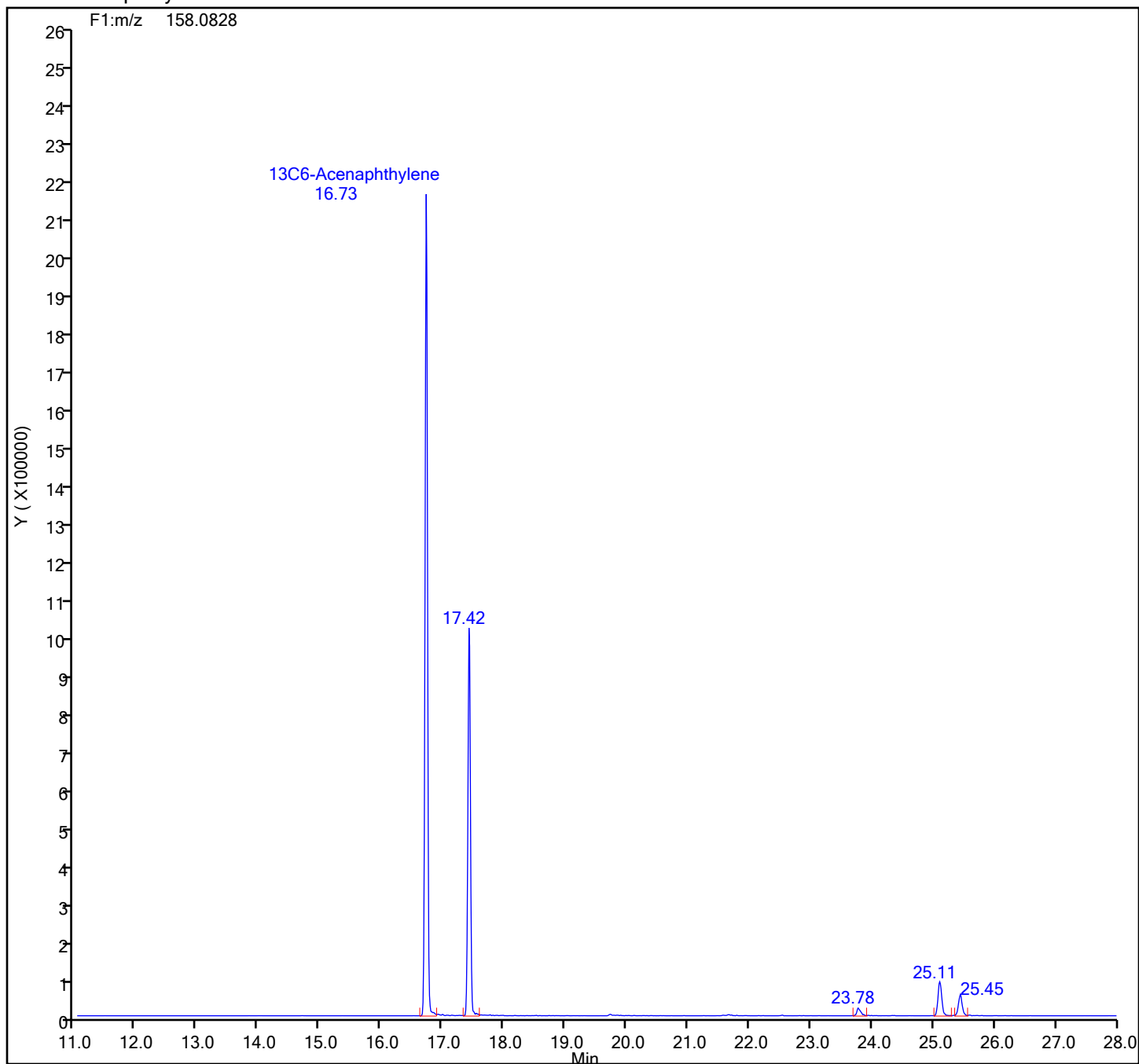
Acenaphthylene Standards



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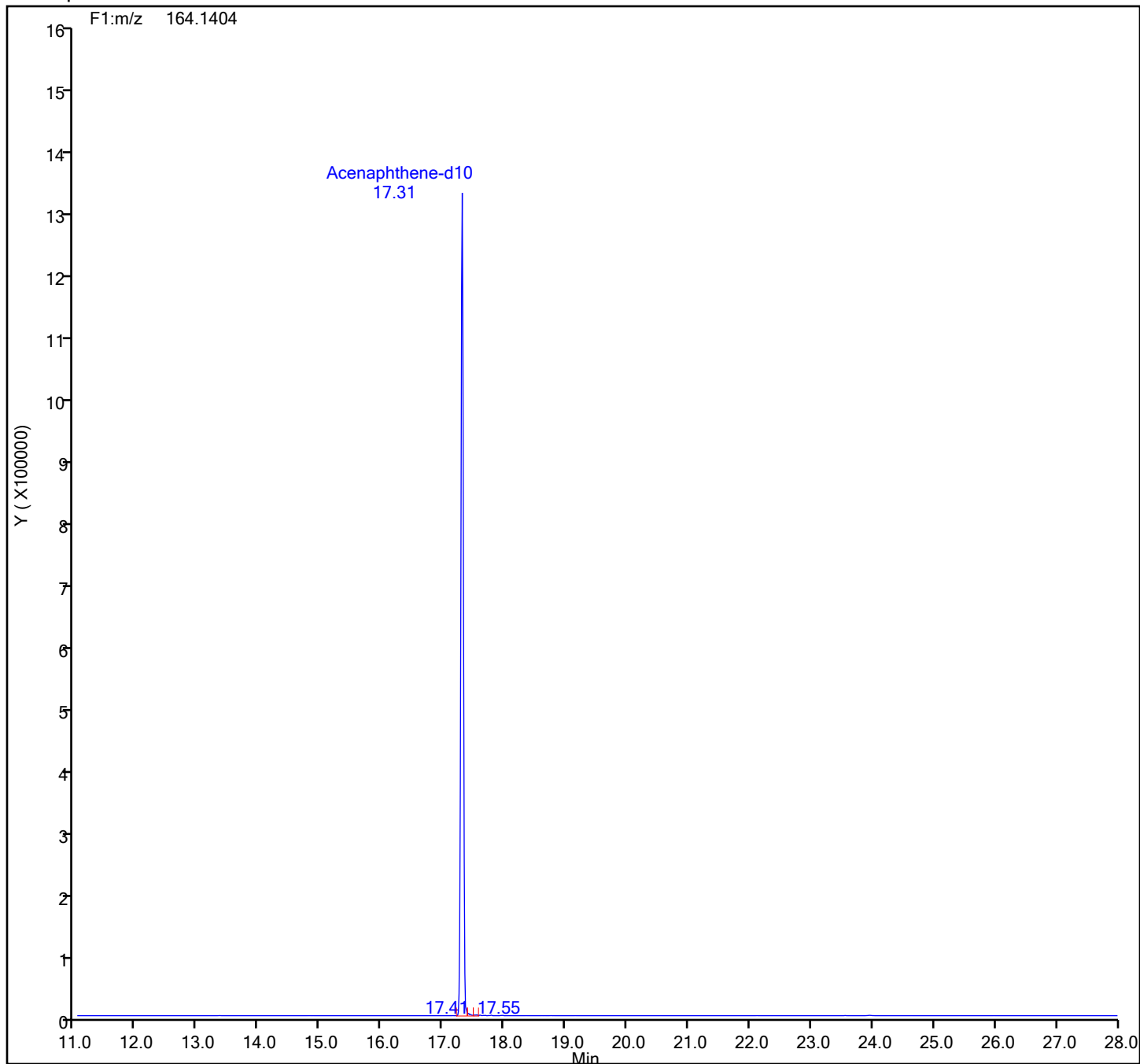
13C6-Acenaphthylene Standards



Eurofins Knoxville

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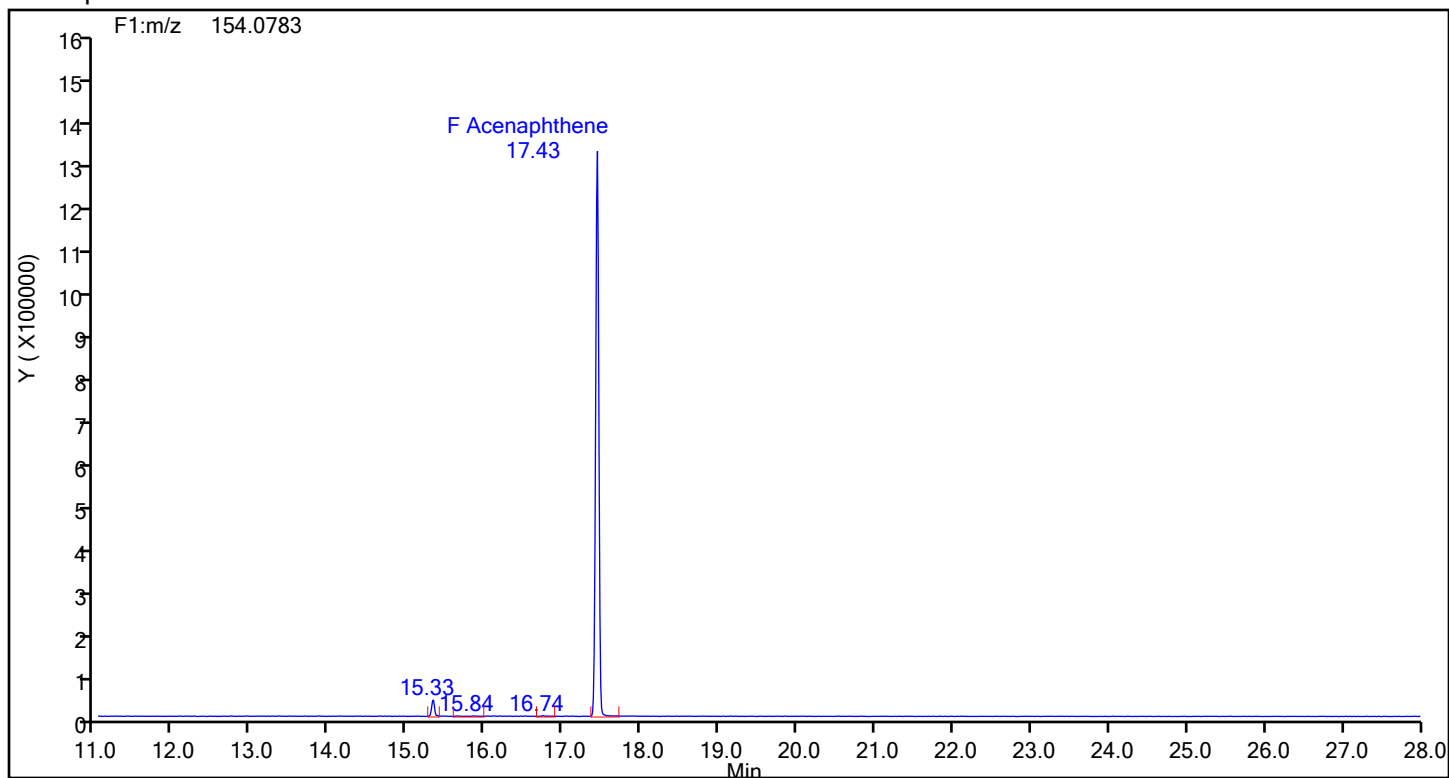
Acenaphthene-d10 Standards



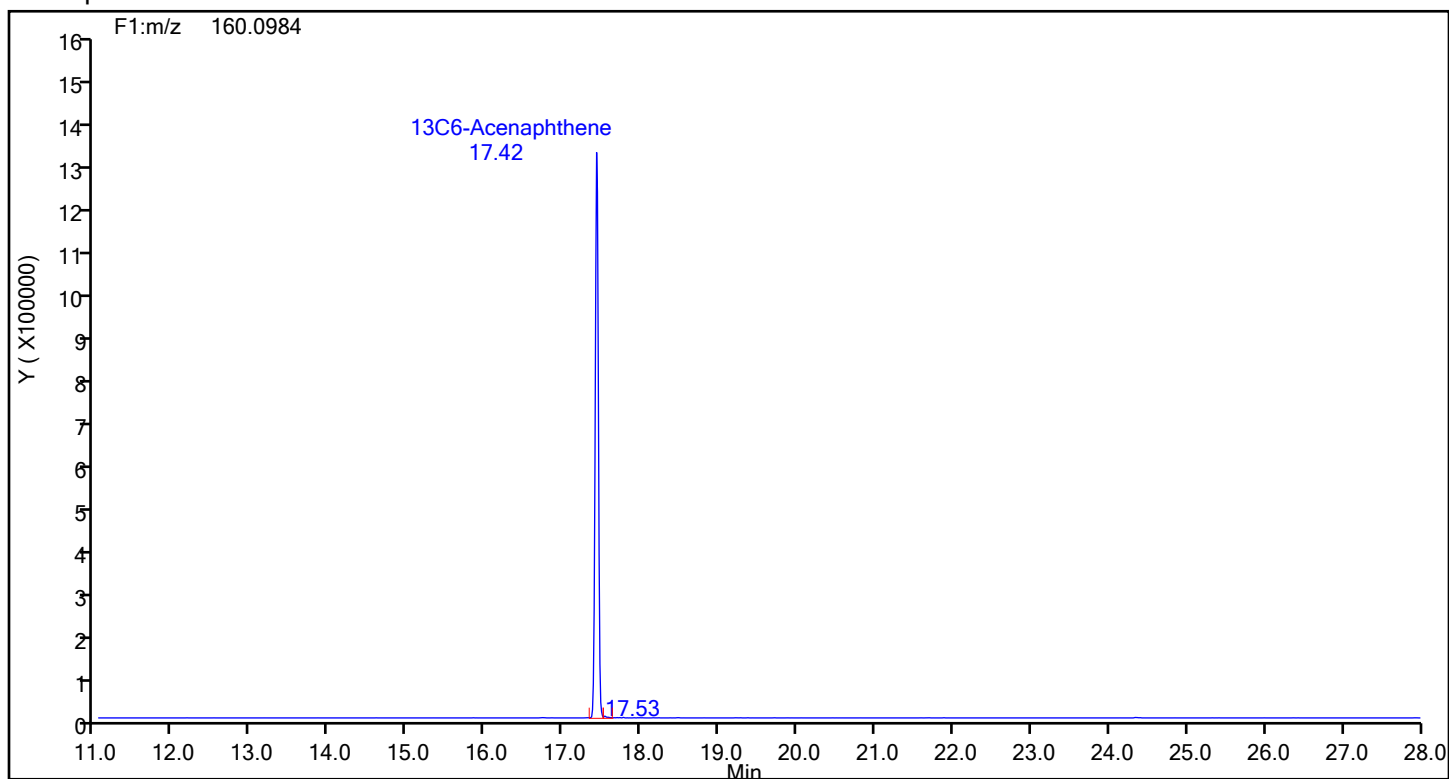
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Acenaphthene



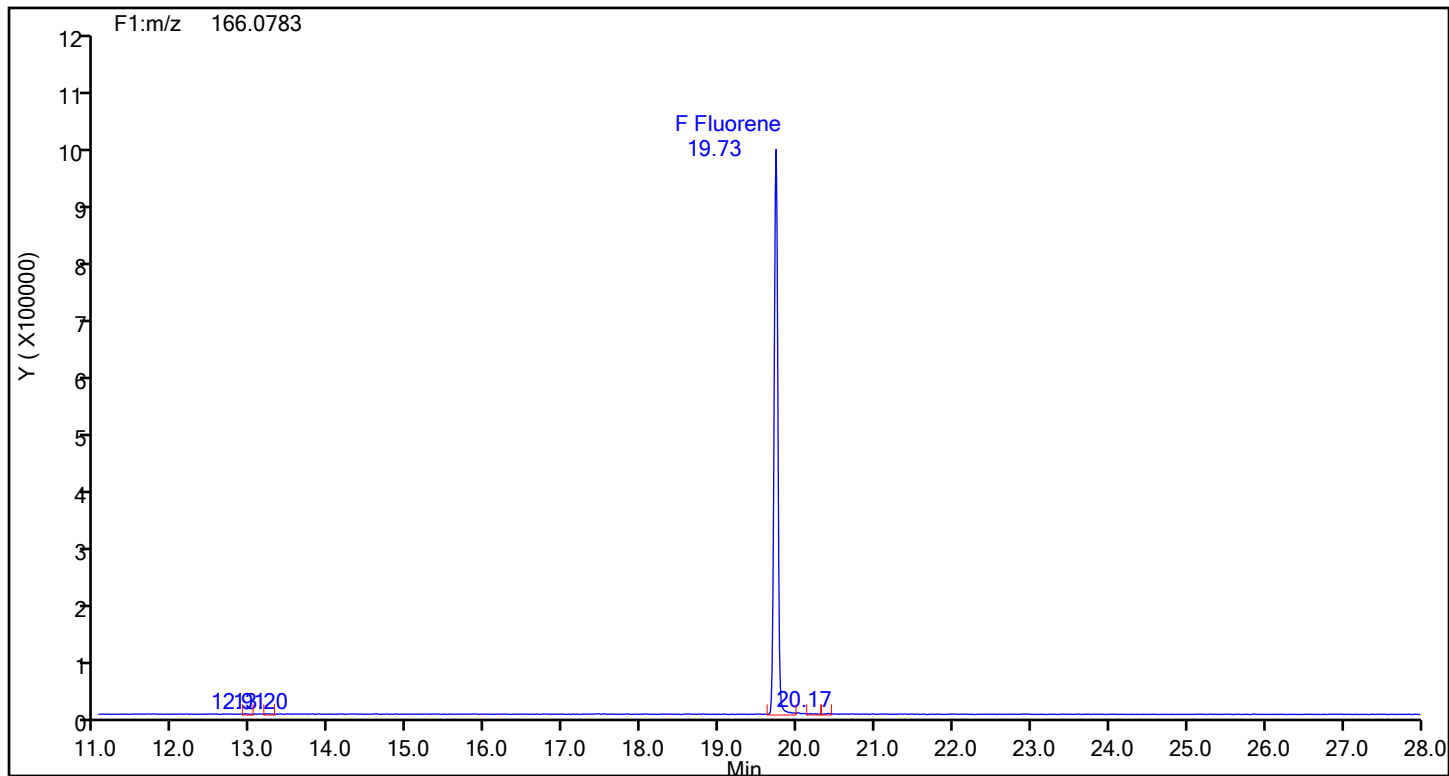
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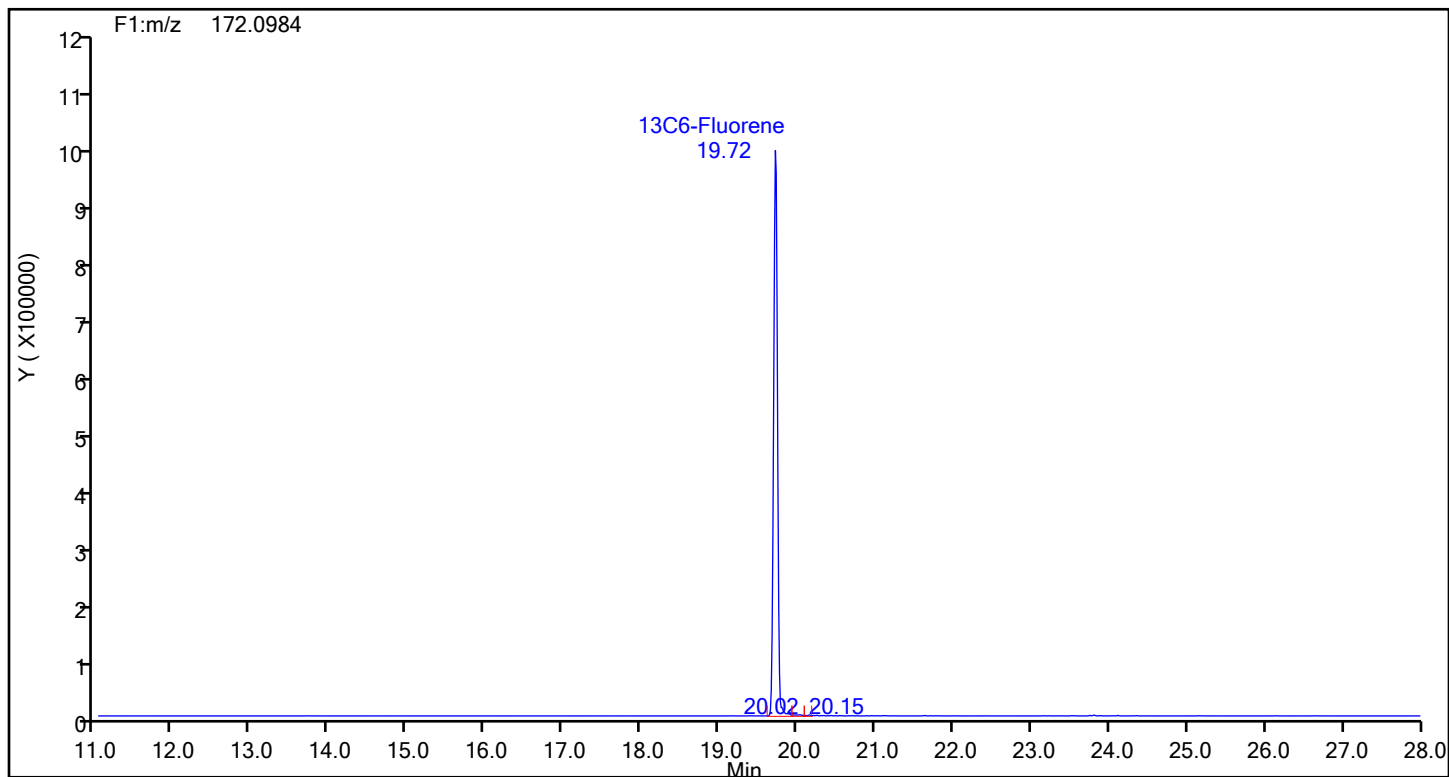
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



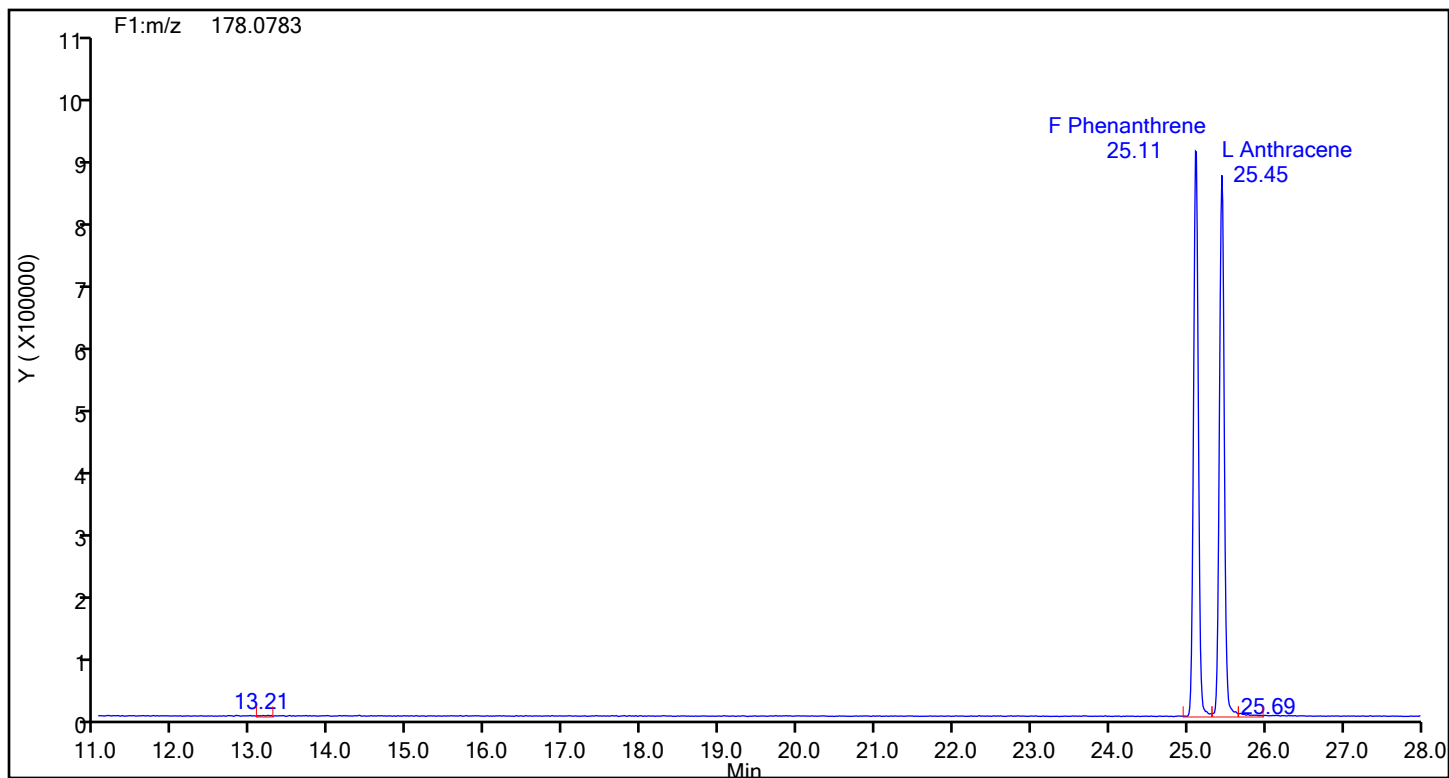
Fluorene Standards



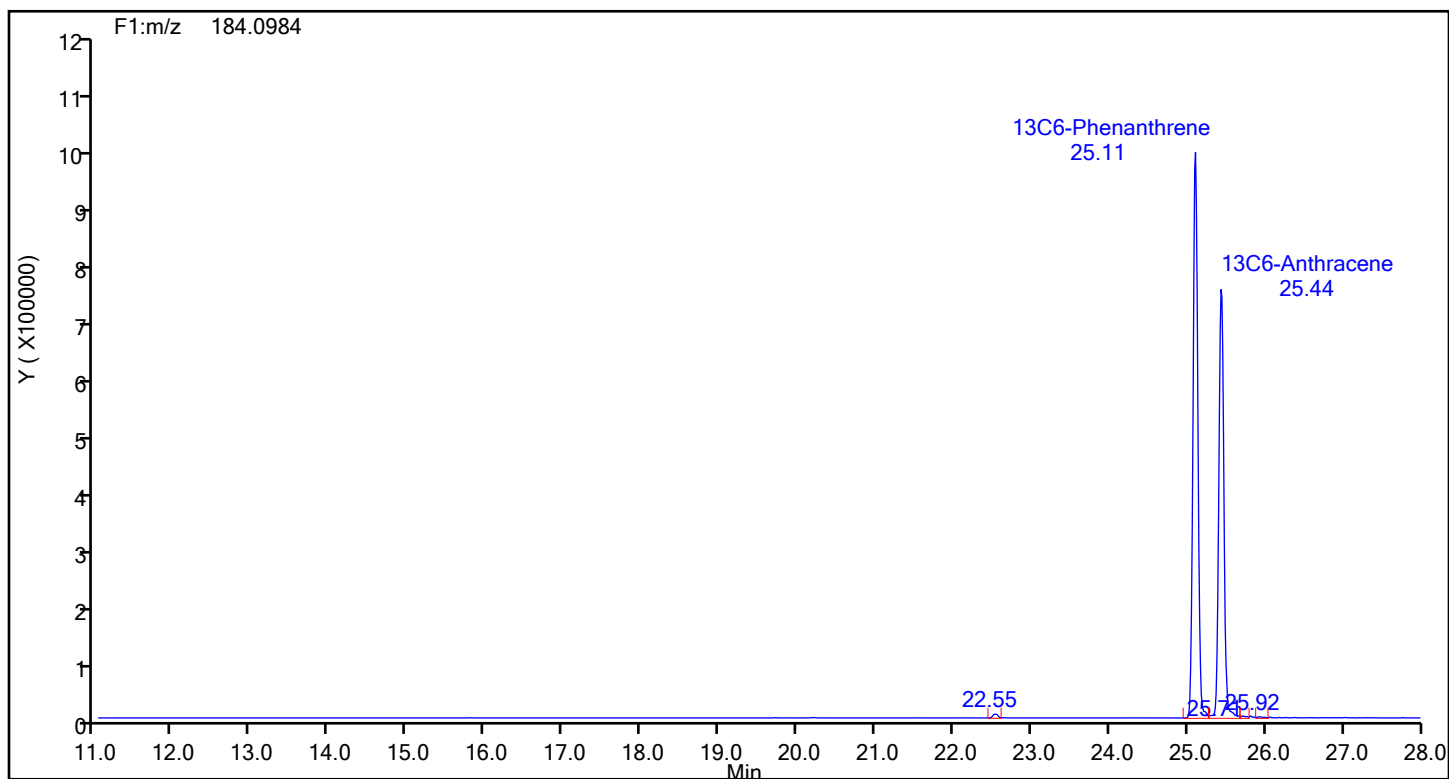
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Phenanthrene

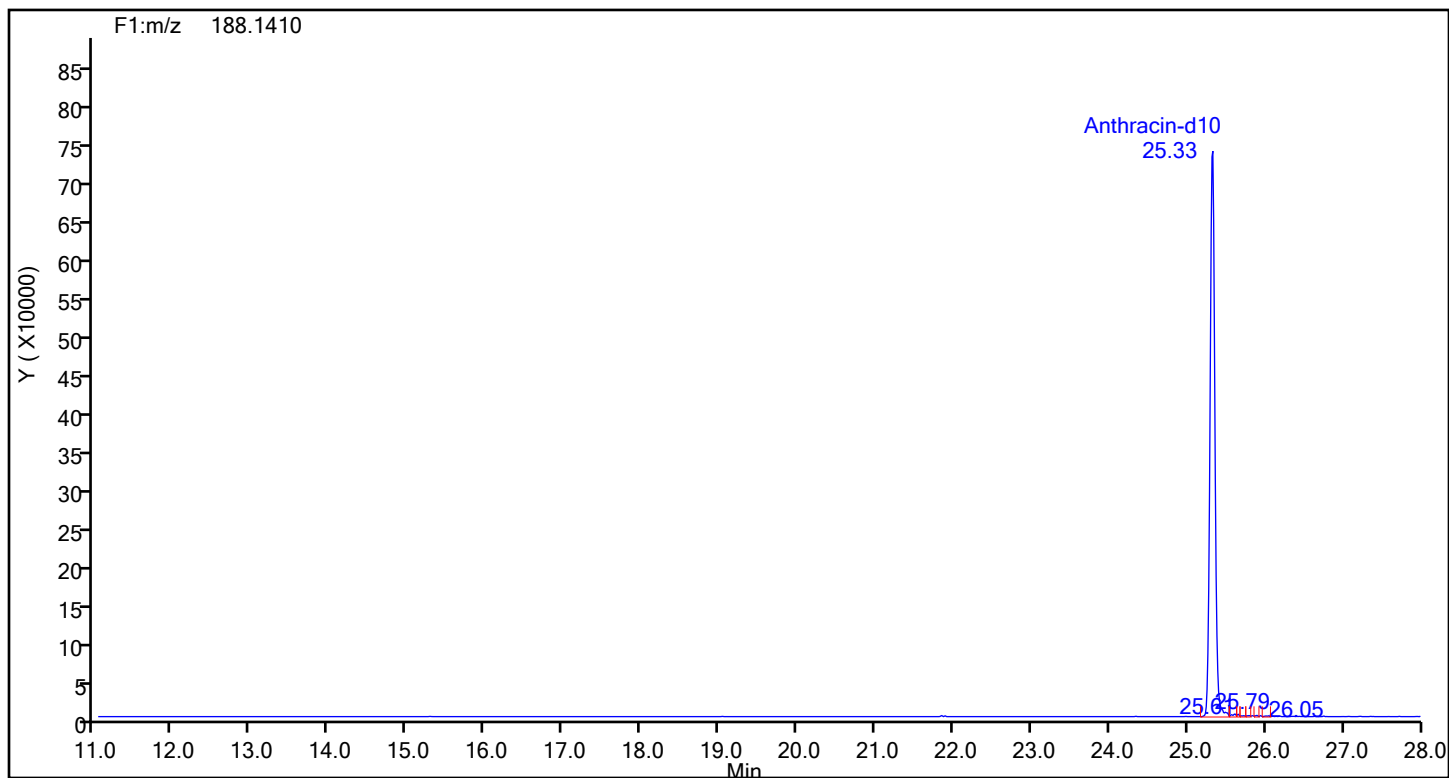


Phenanthrene Standards

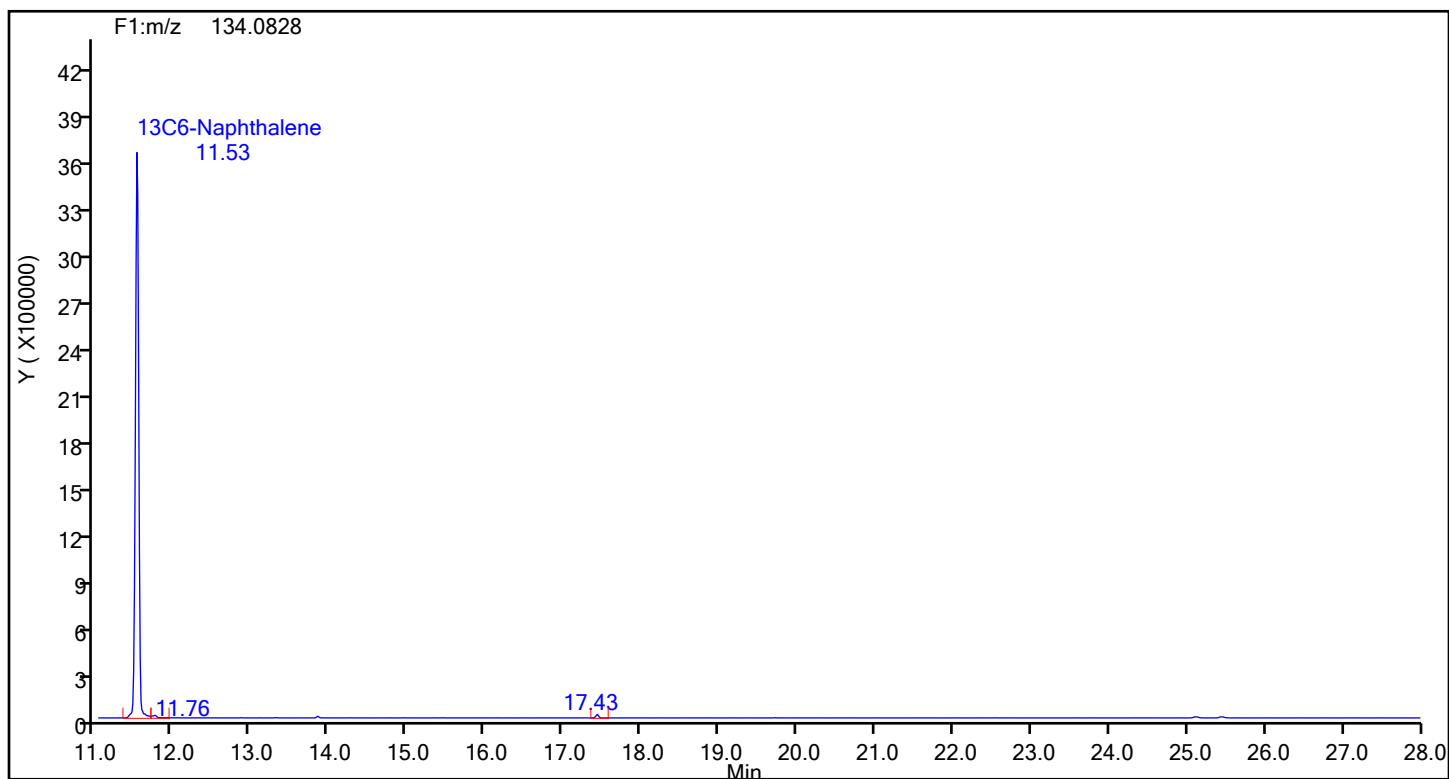


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Anthracin-d10

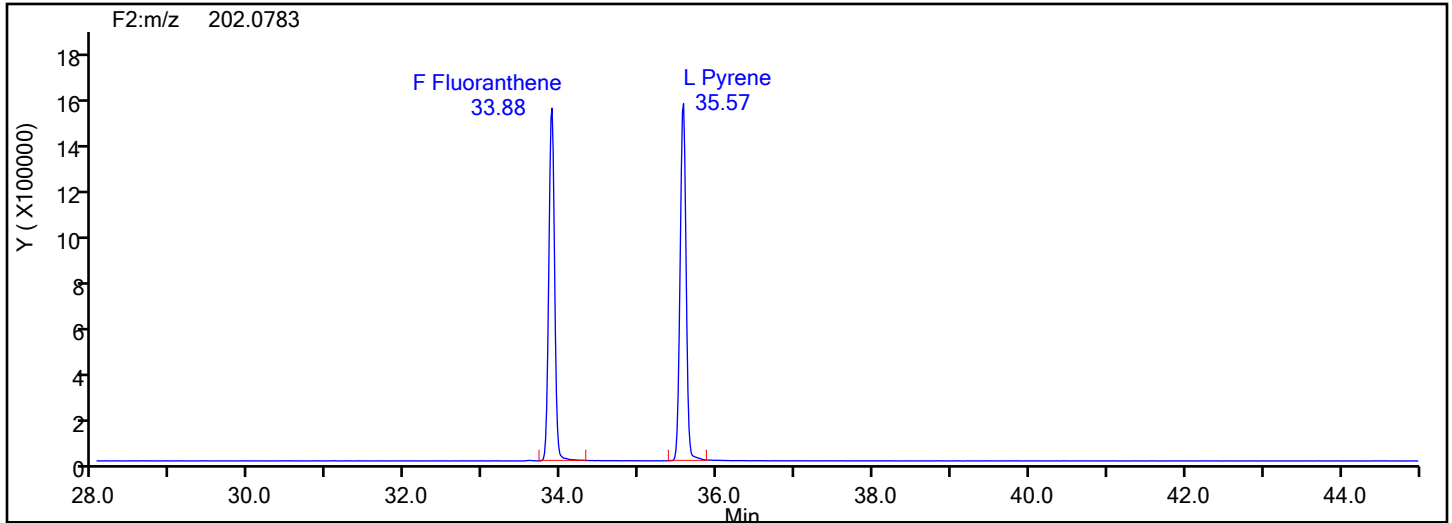


Anthracin-d10 Standards

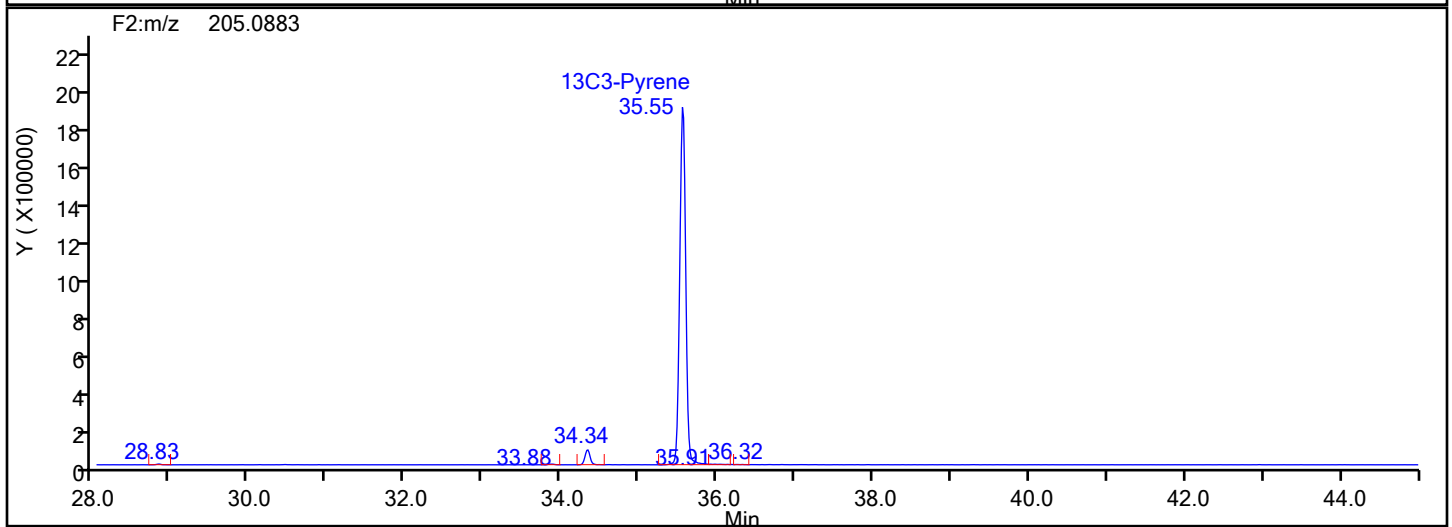
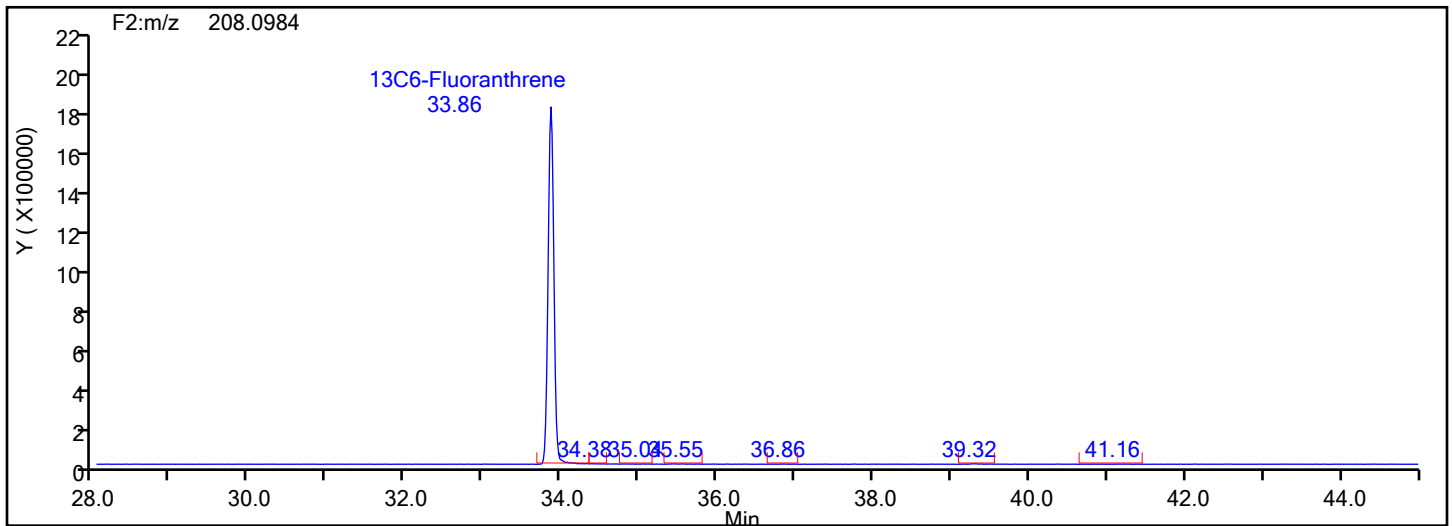


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Fluoranthene



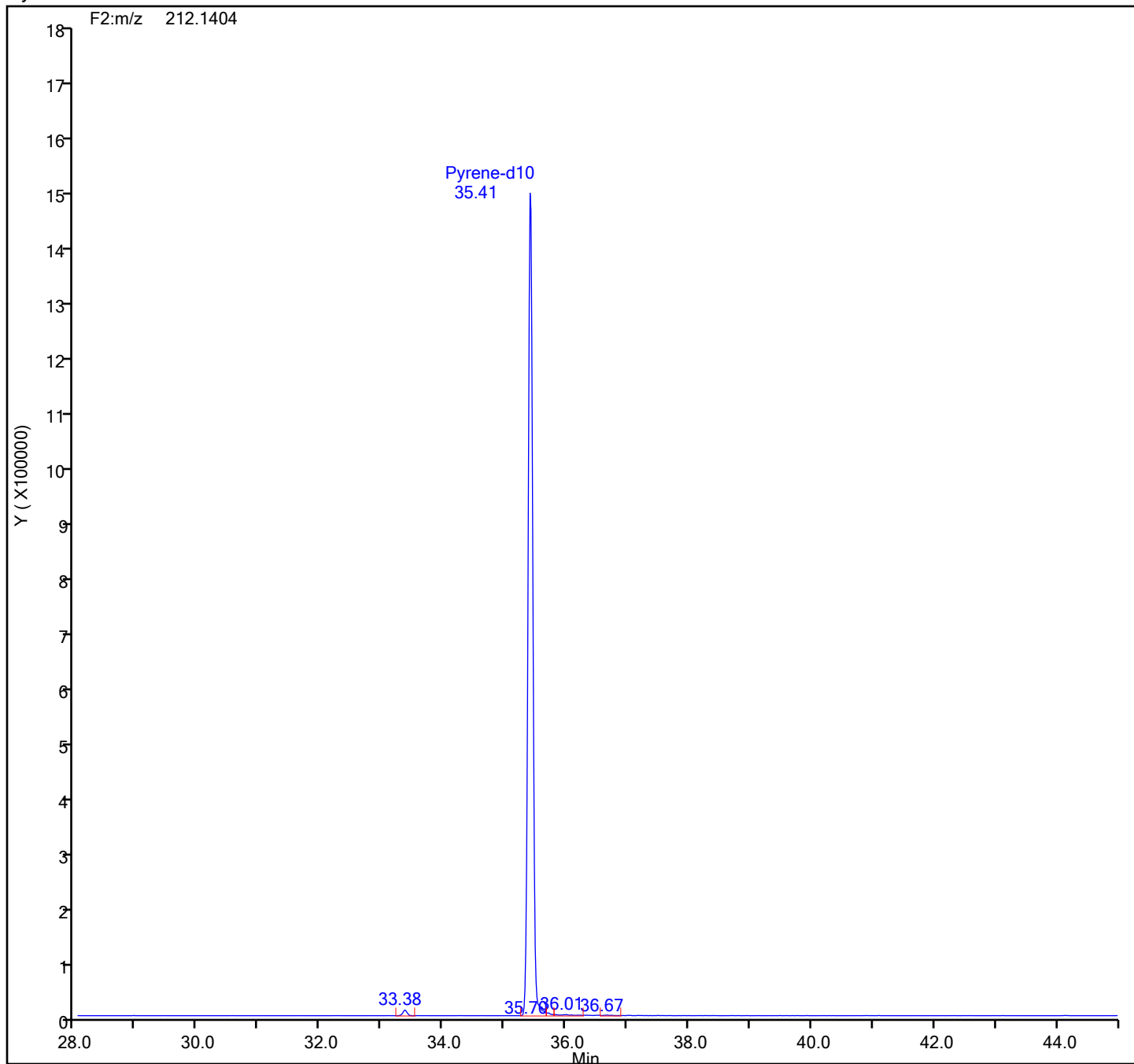
Fluoranthene Standards



Eurofins Knoxville

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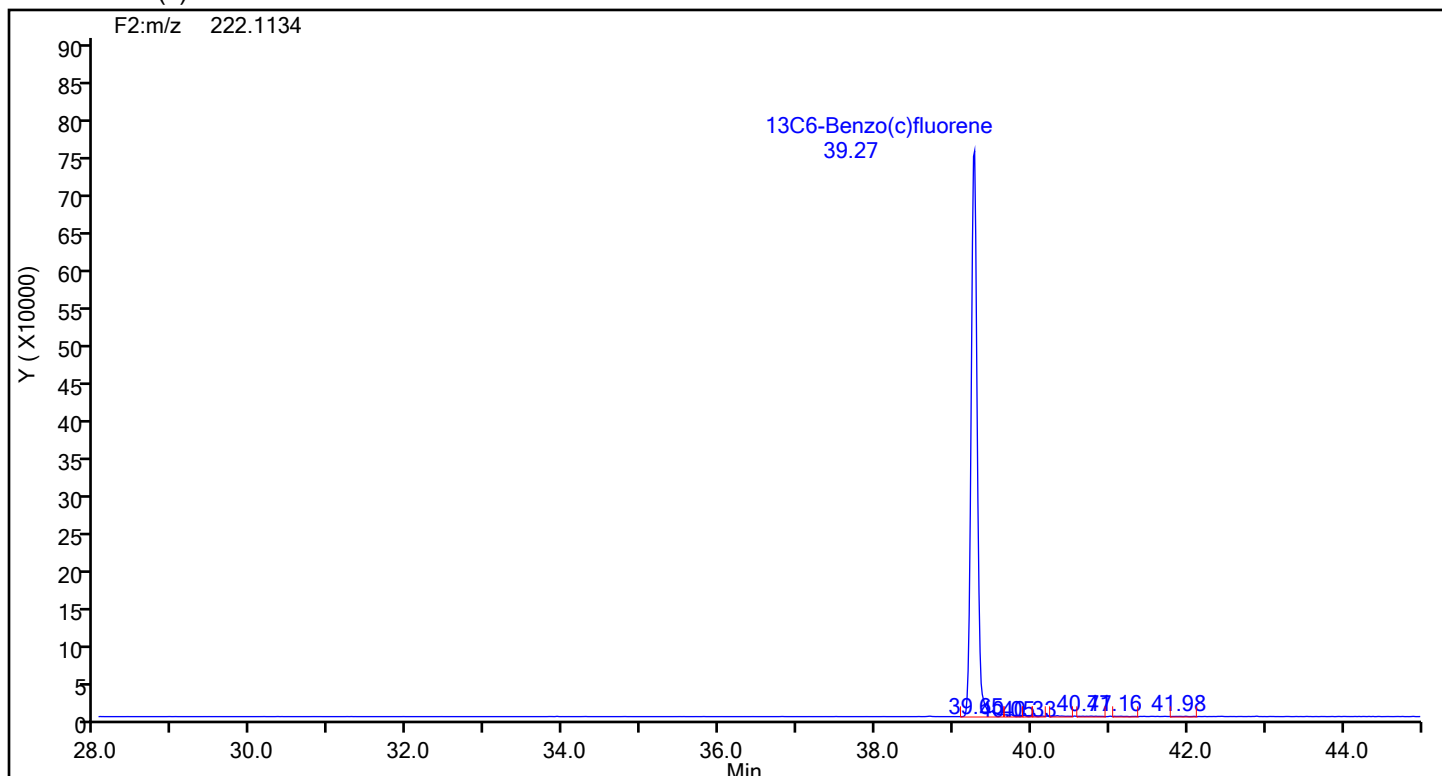
Pyrene-d10 Standards



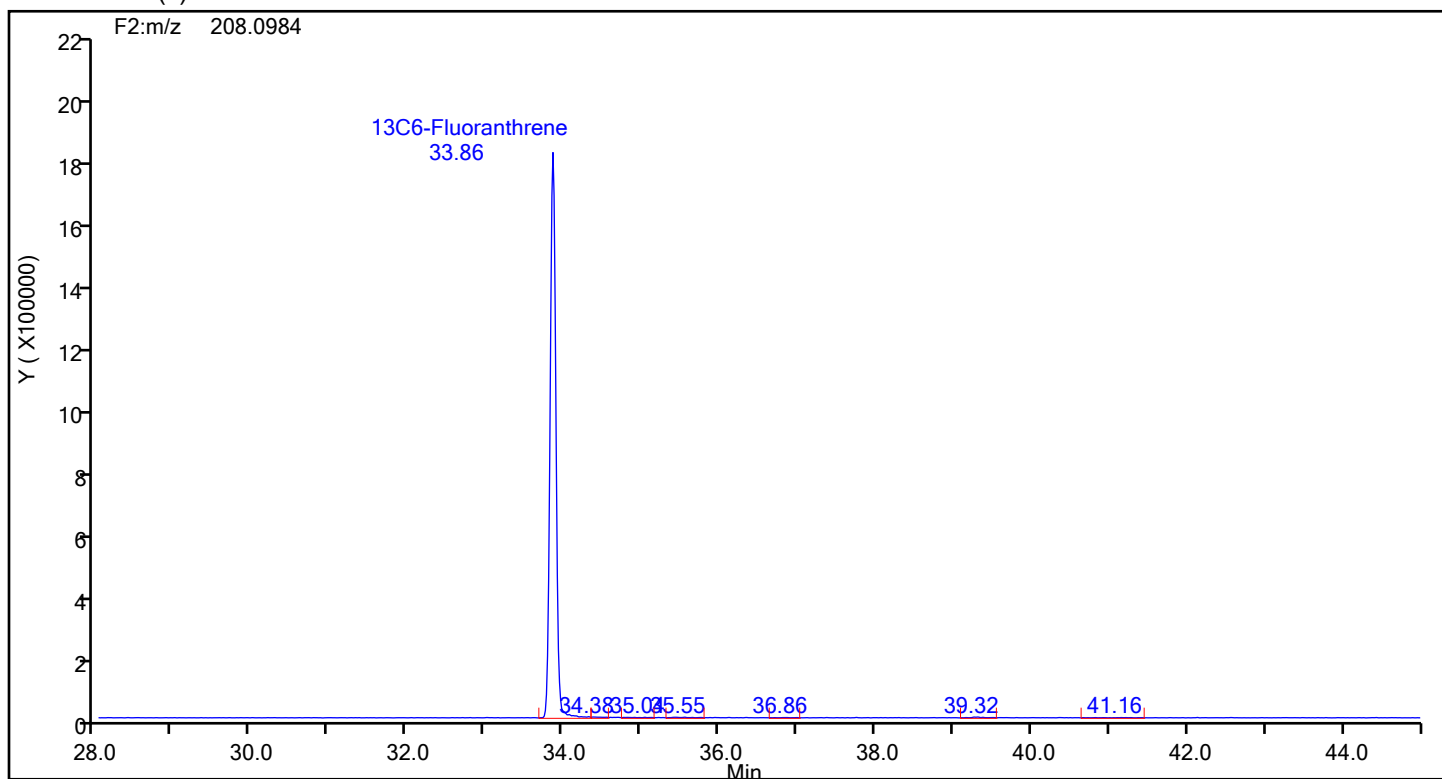
Eurofins Knoxville

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13C6-Benzo(c)fluorene



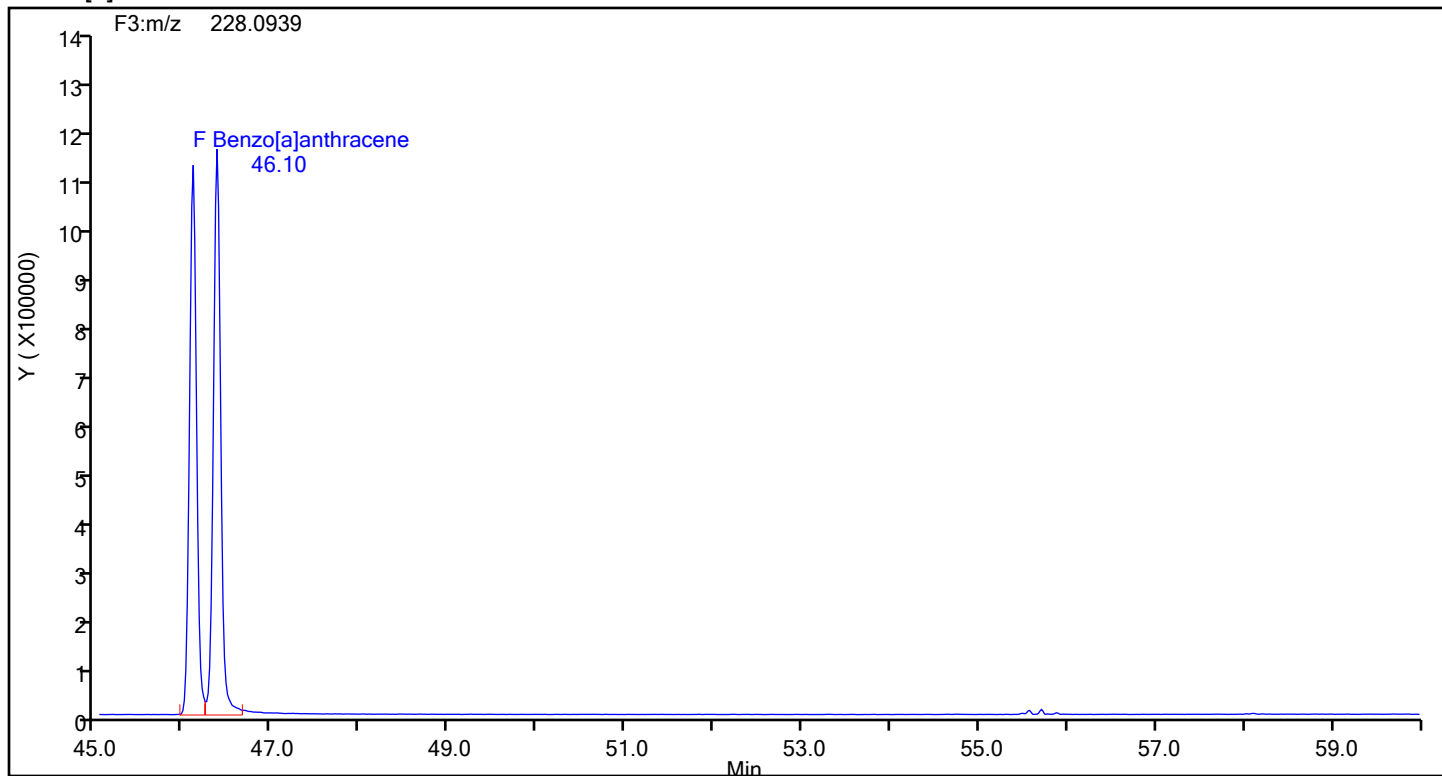
13C6-Benzo(c)fluorene Standards



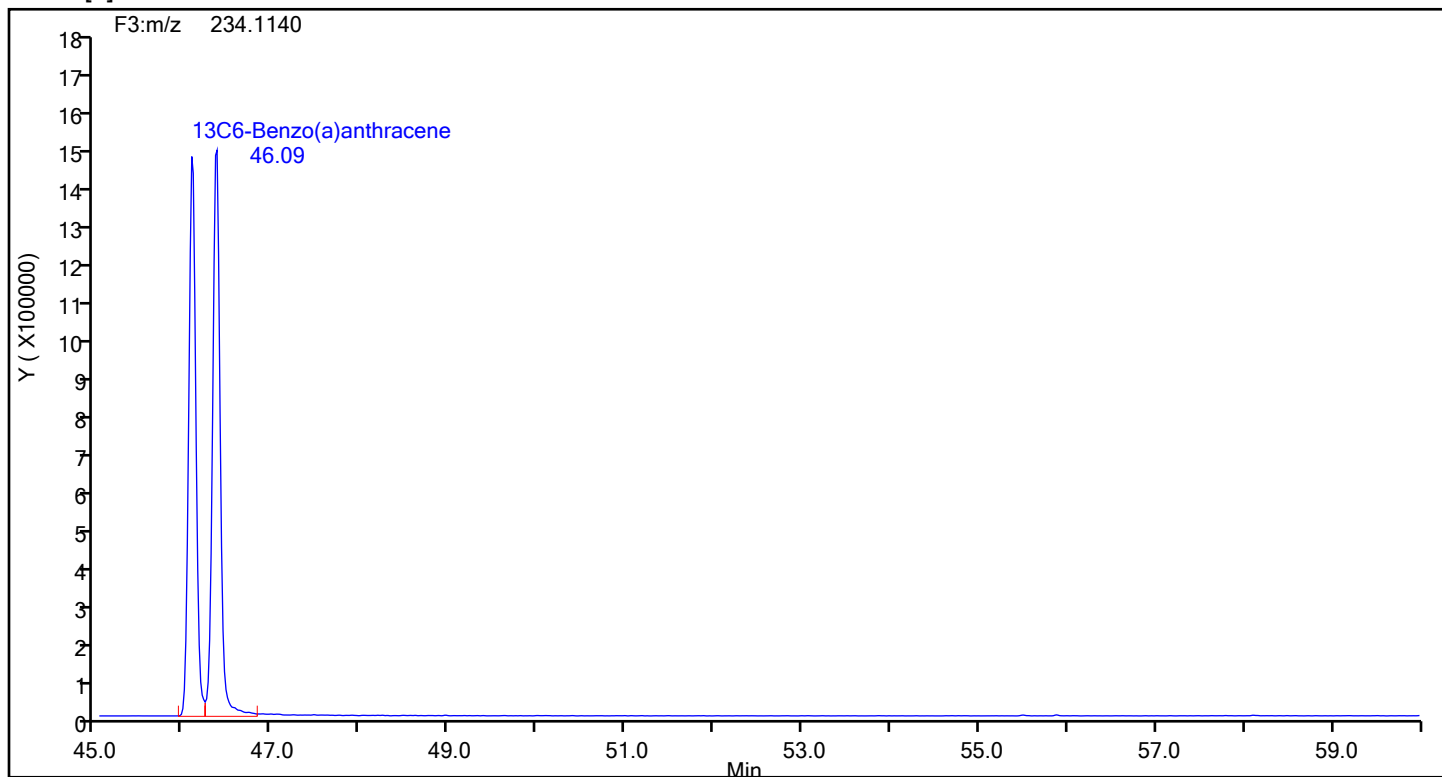
Eurofins Knoxville

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Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



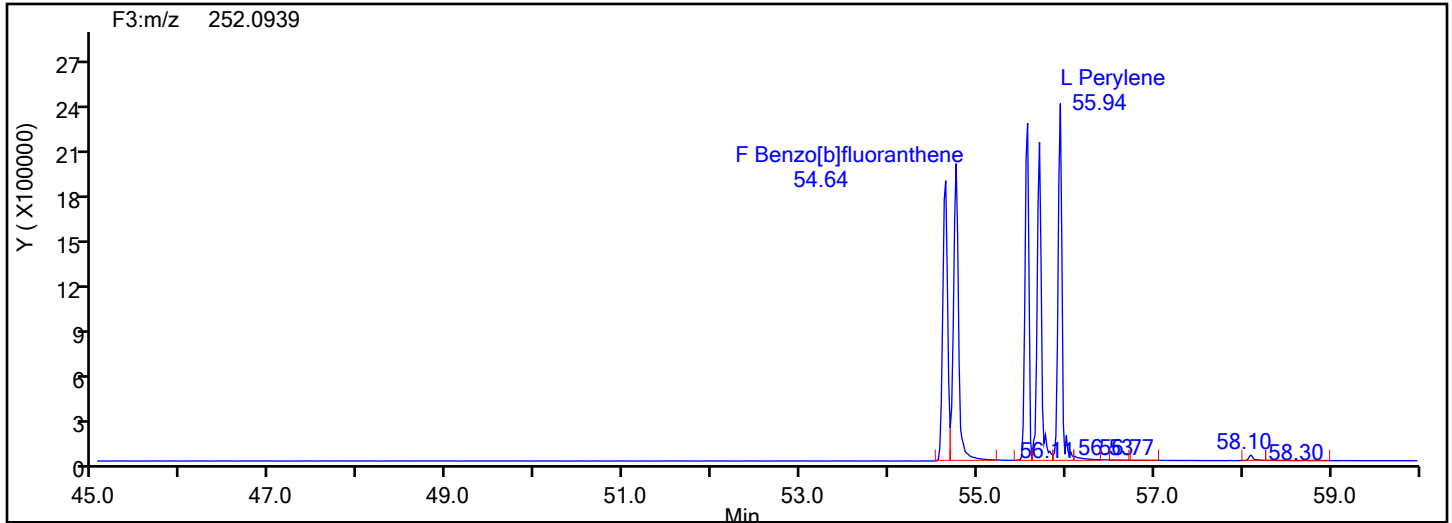
Benzo[a]anthracene Standards



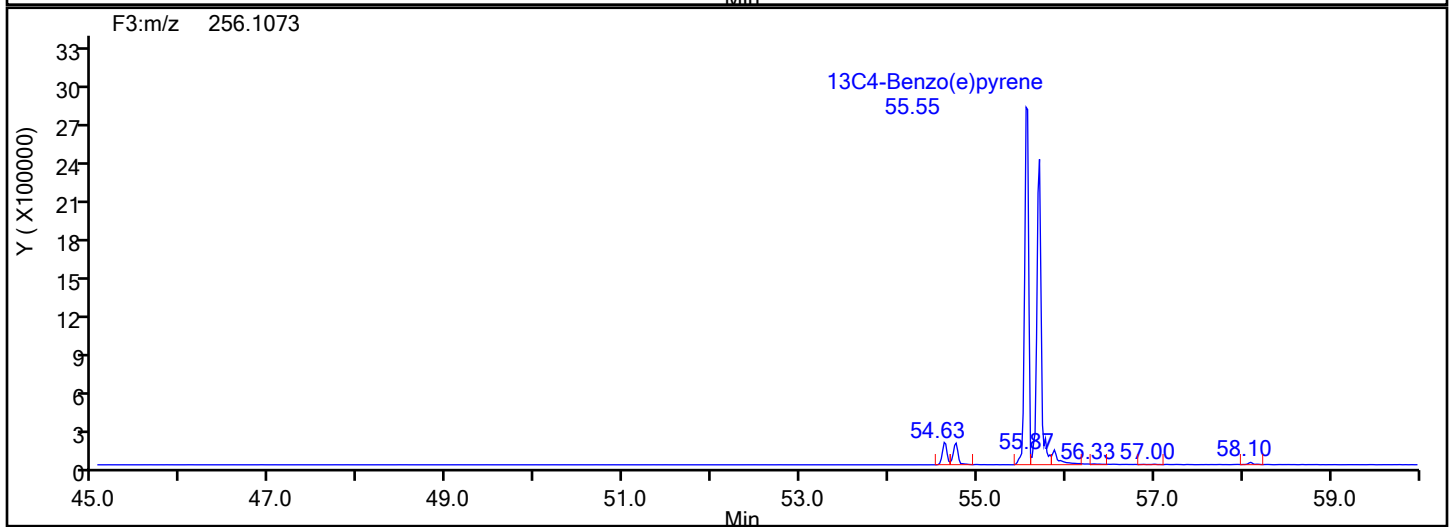
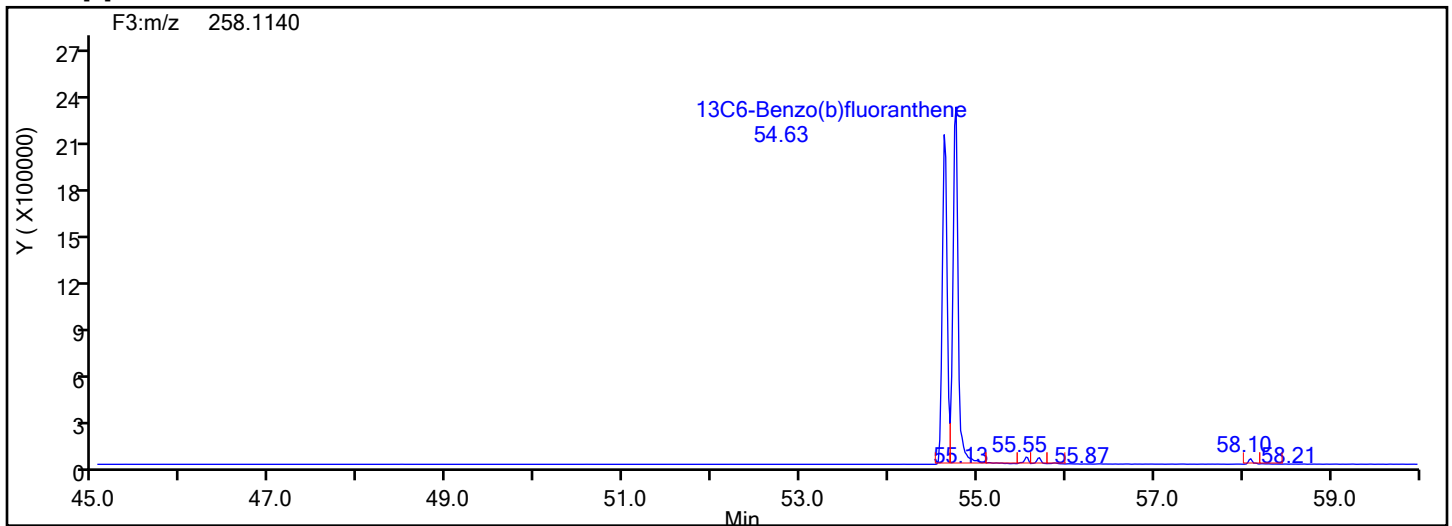
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



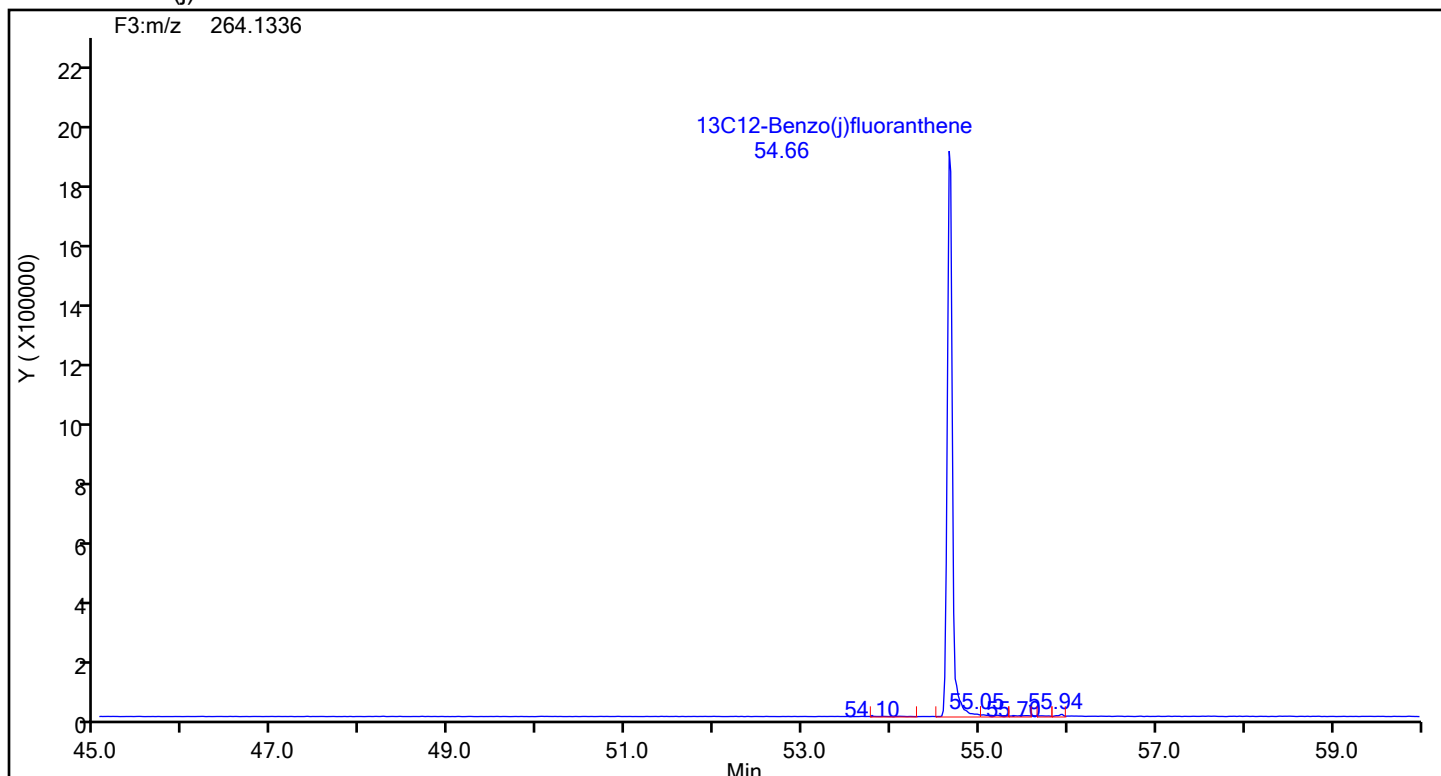
Benzo[b]fluoranthene Standards



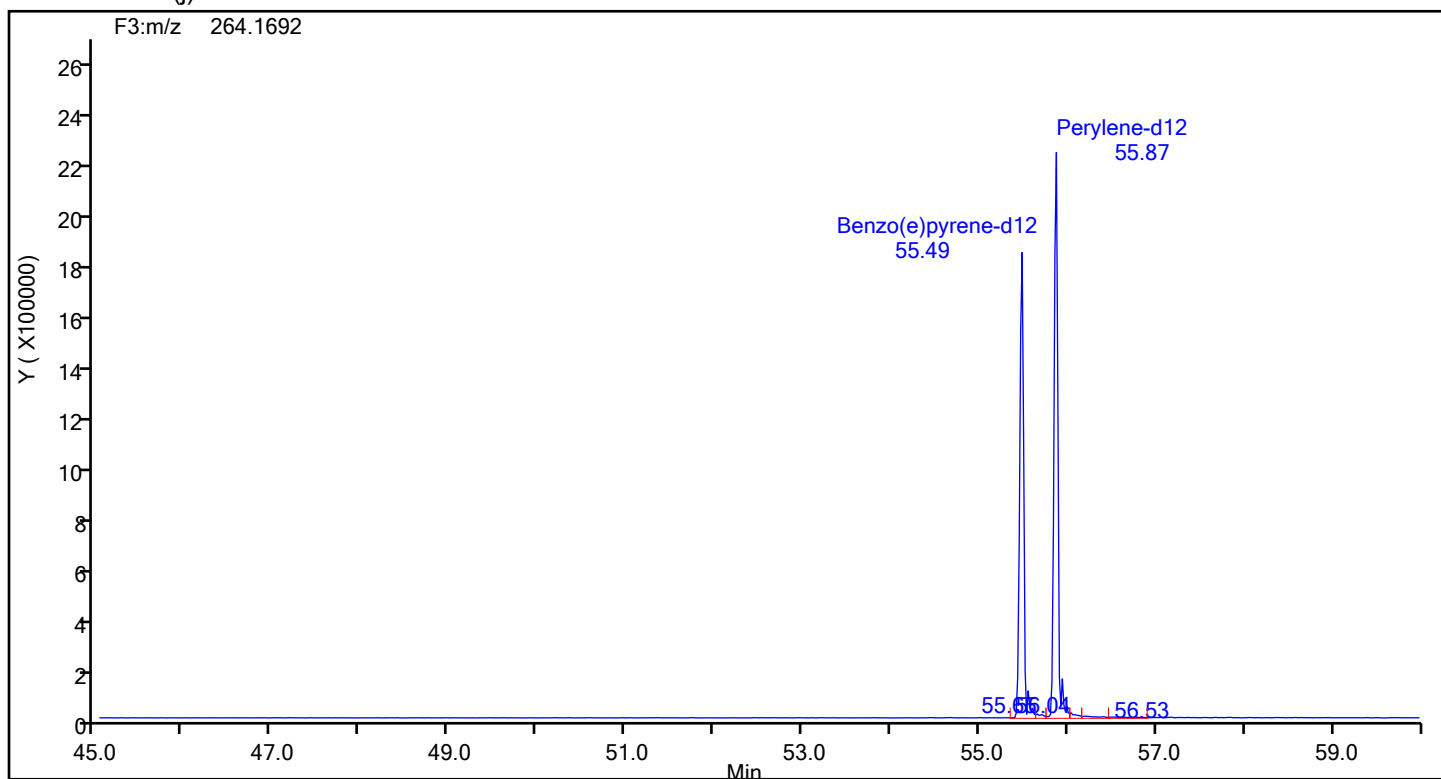
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



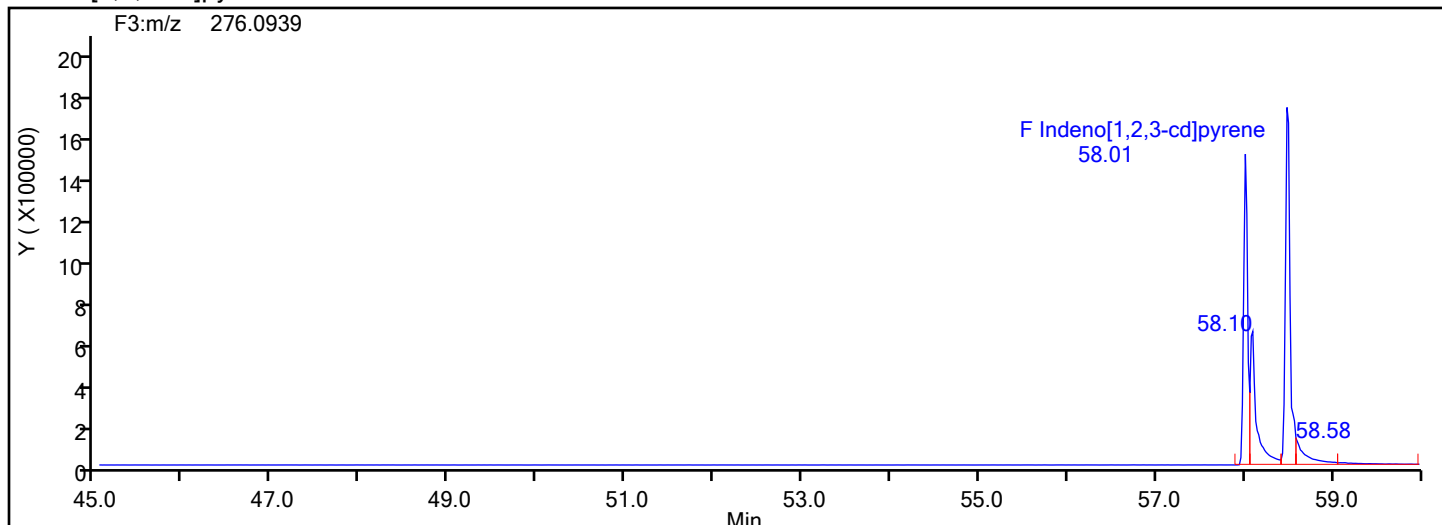
13C12-Benzo(j)fluoranthene Standards



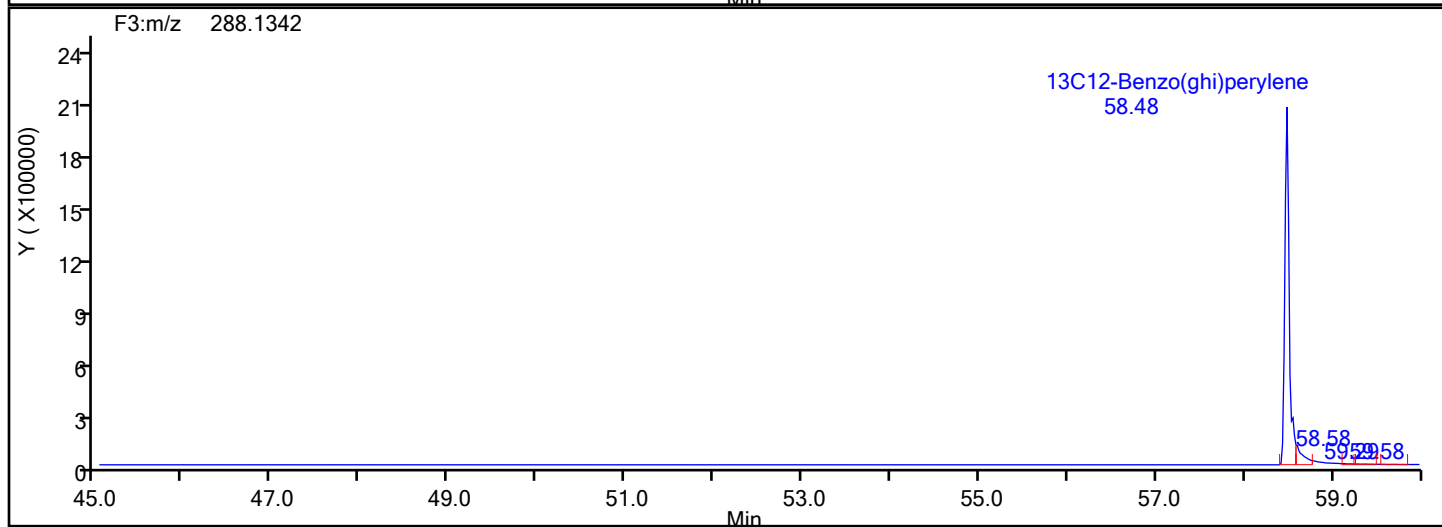
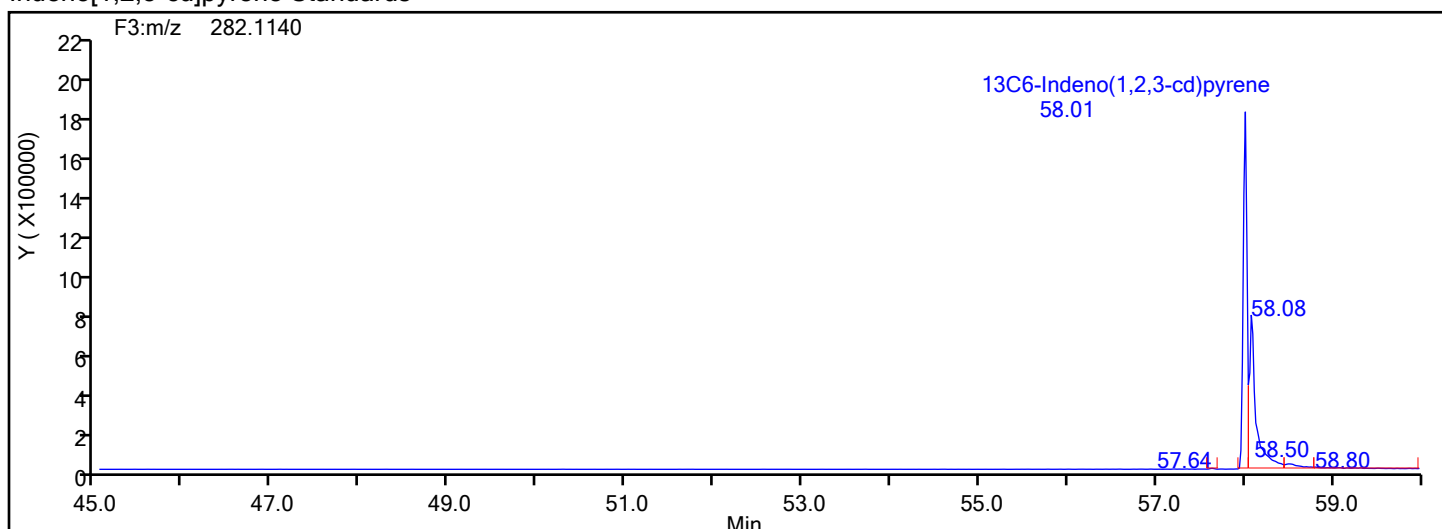
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

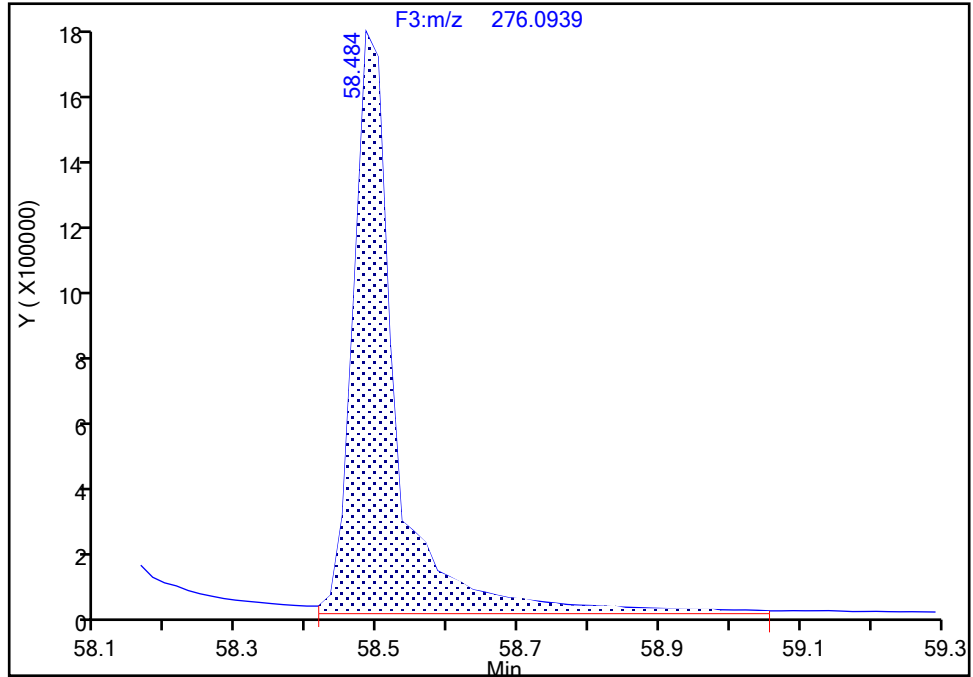
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

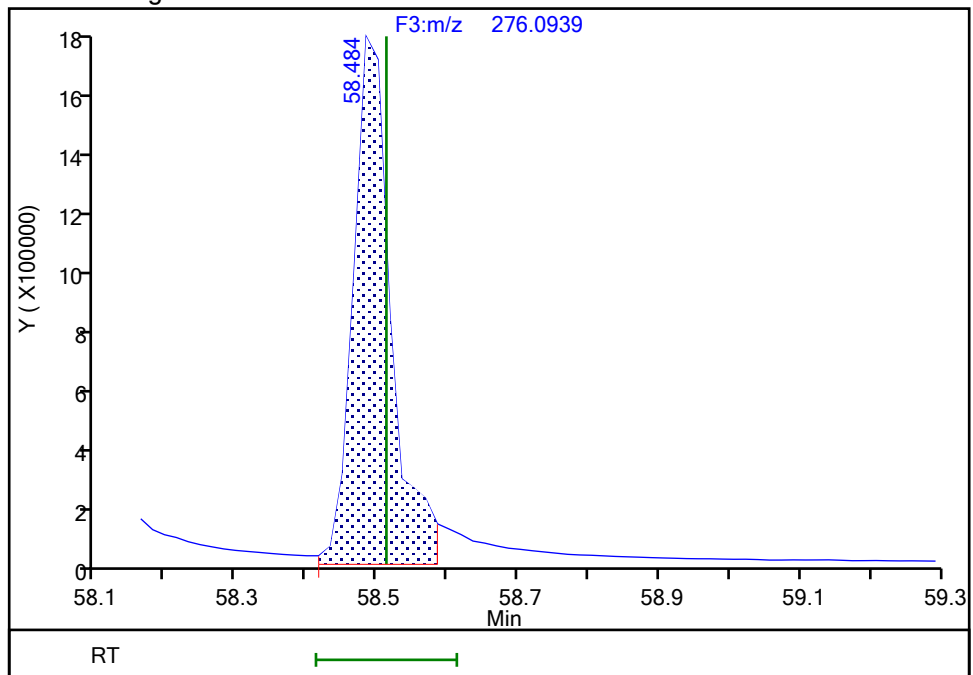
RT: 58.48
Area: 7480538
Amount: 81.865828
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 6540833
Amount: 72.666042
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

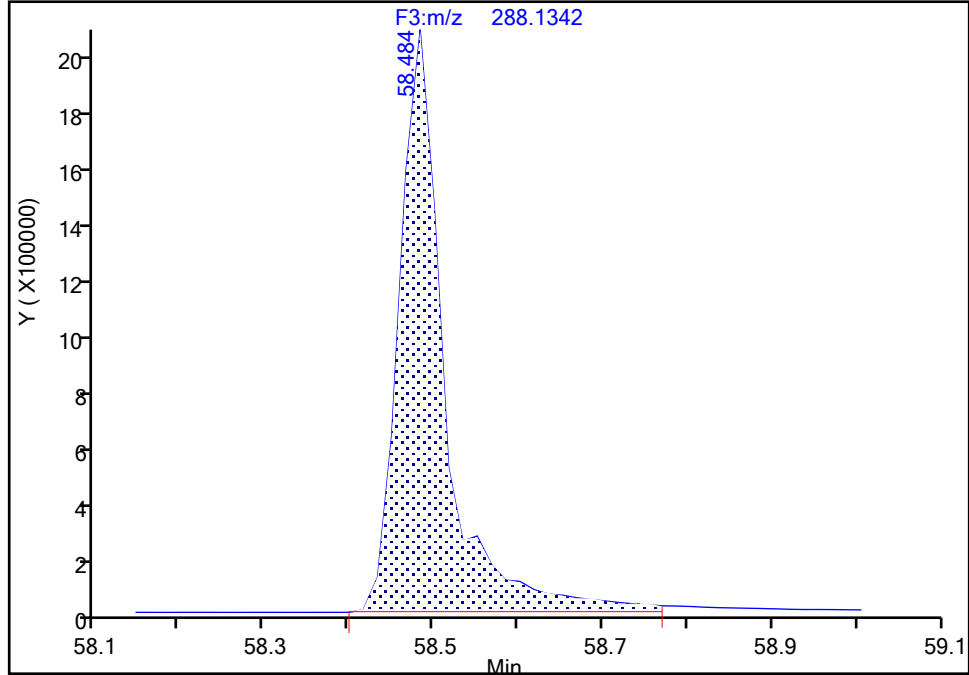
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

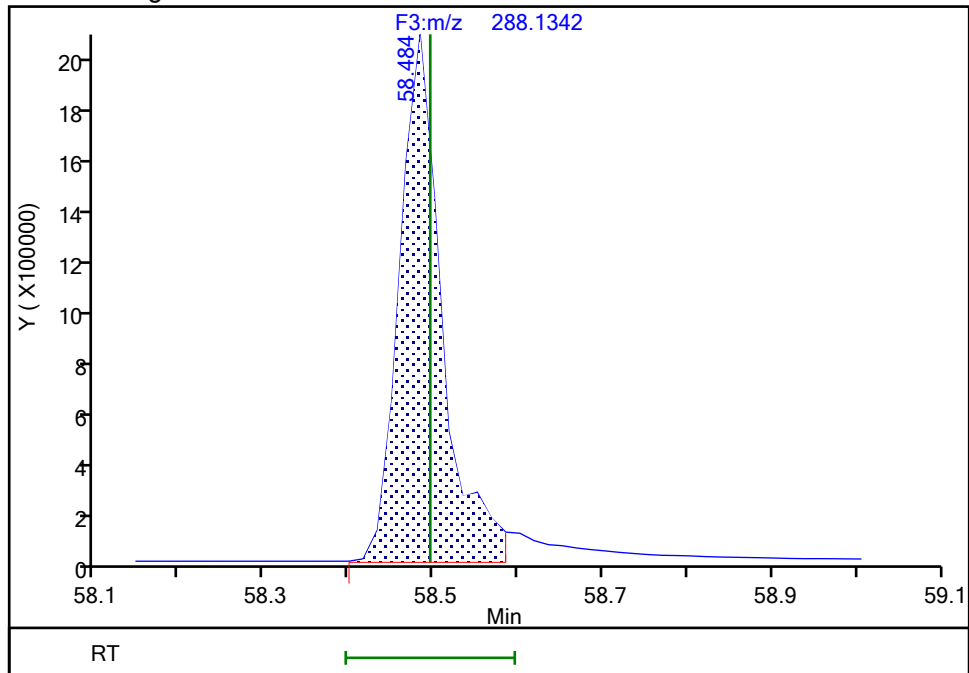
RT: 58.48
Area: 7561145
Amount: 99.107109
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 7011632
Amount: 94.653865
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:17 -04:00:00 (UTC)

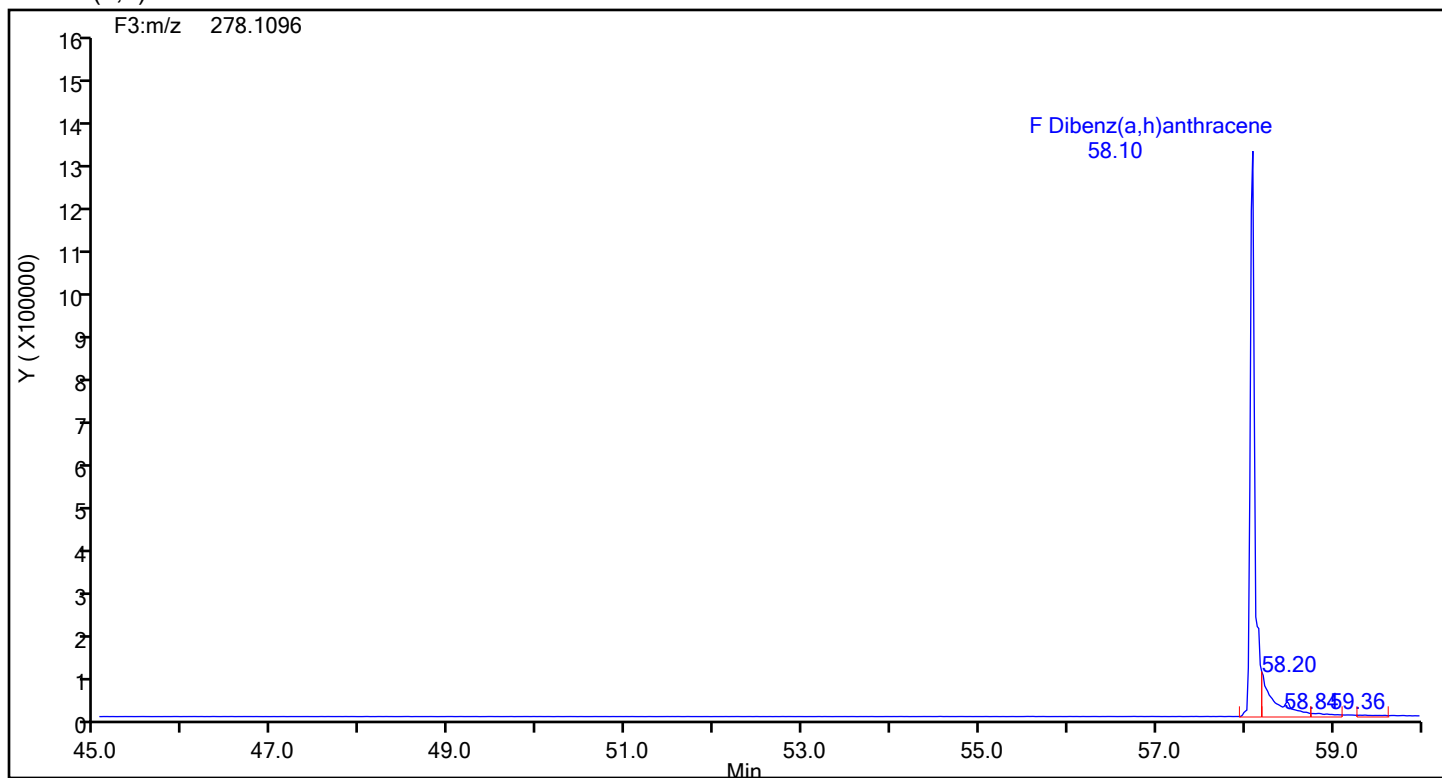
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

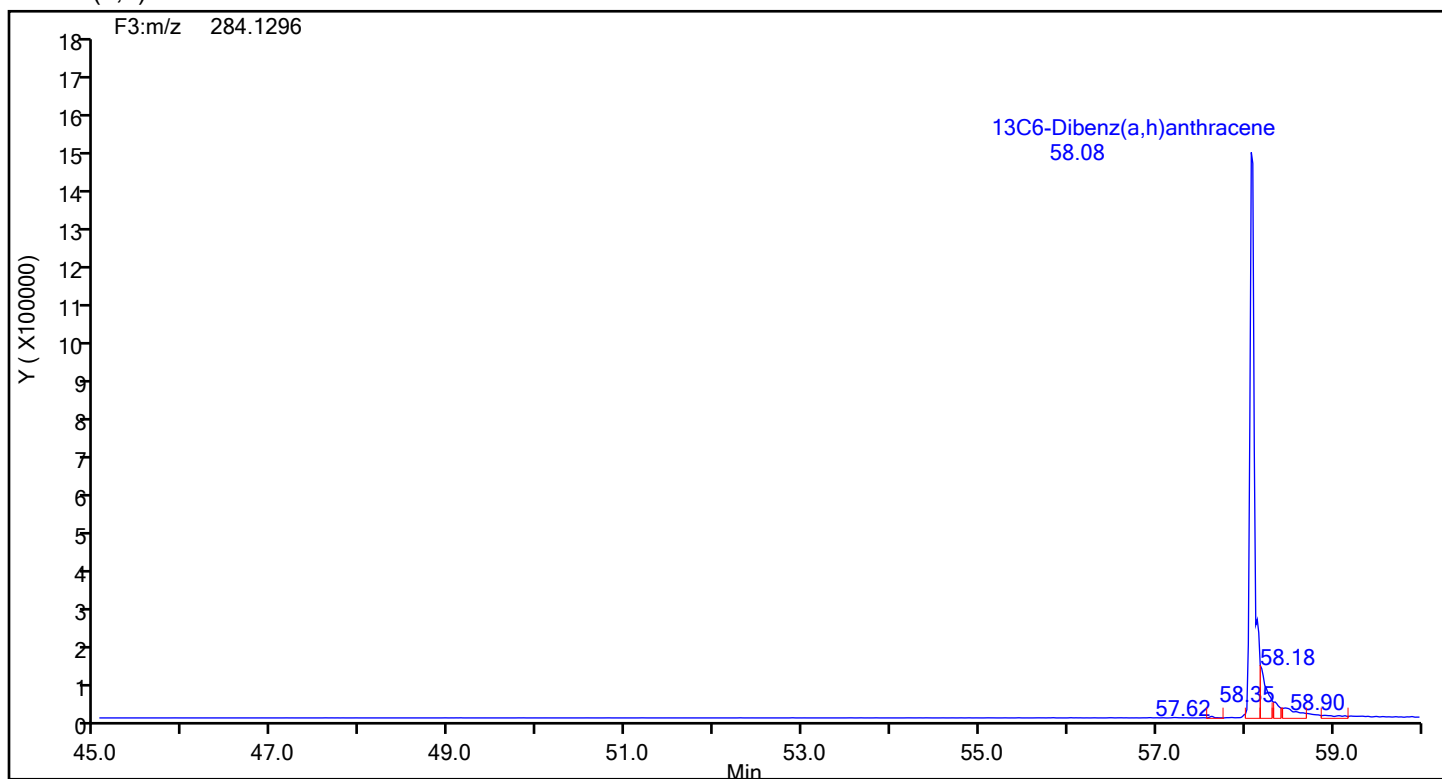
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

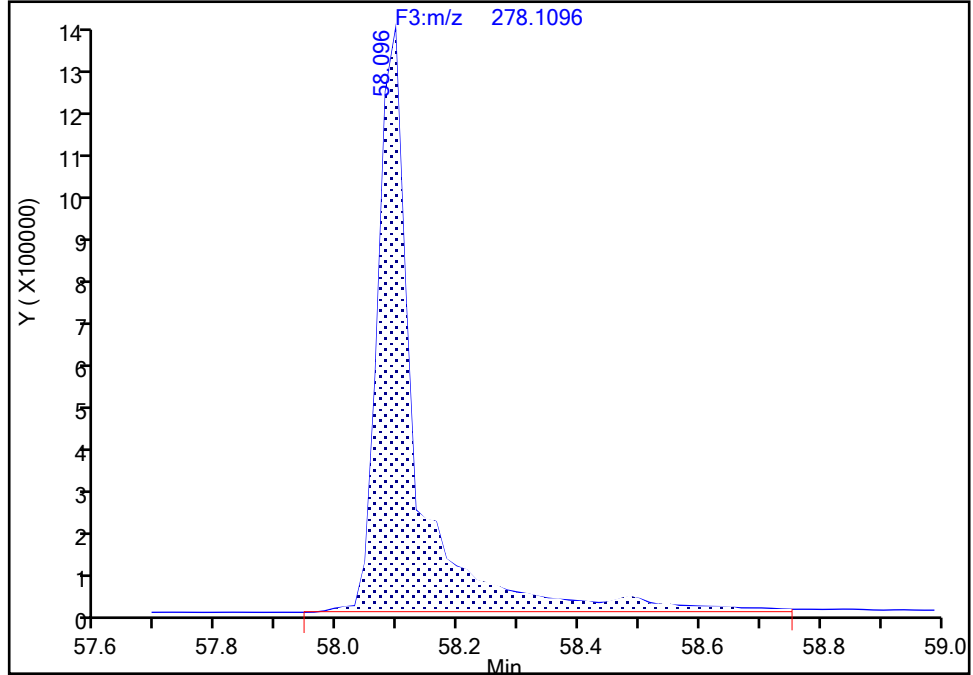
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

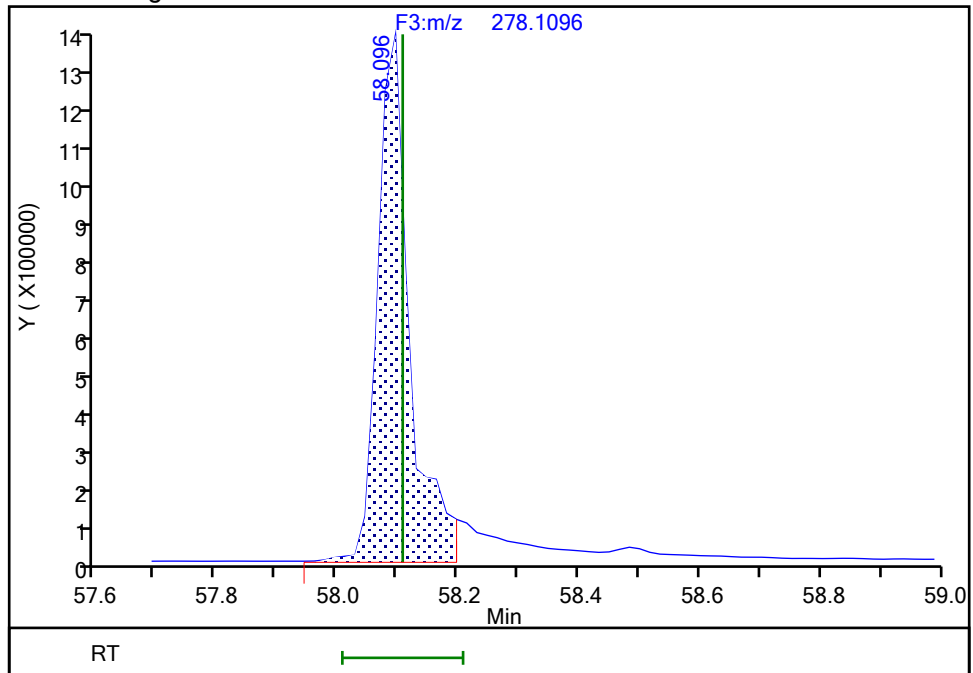
RT: 58.10
Area: 5801087
Amount: 91.156405
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 4852505
Amount: 76.851579
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

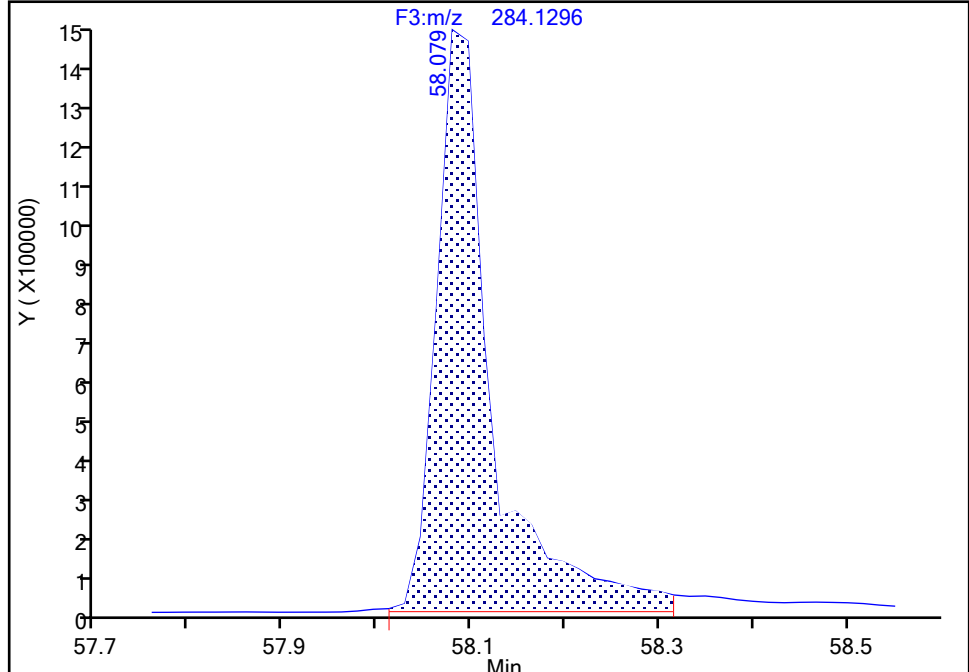
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic6.d
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

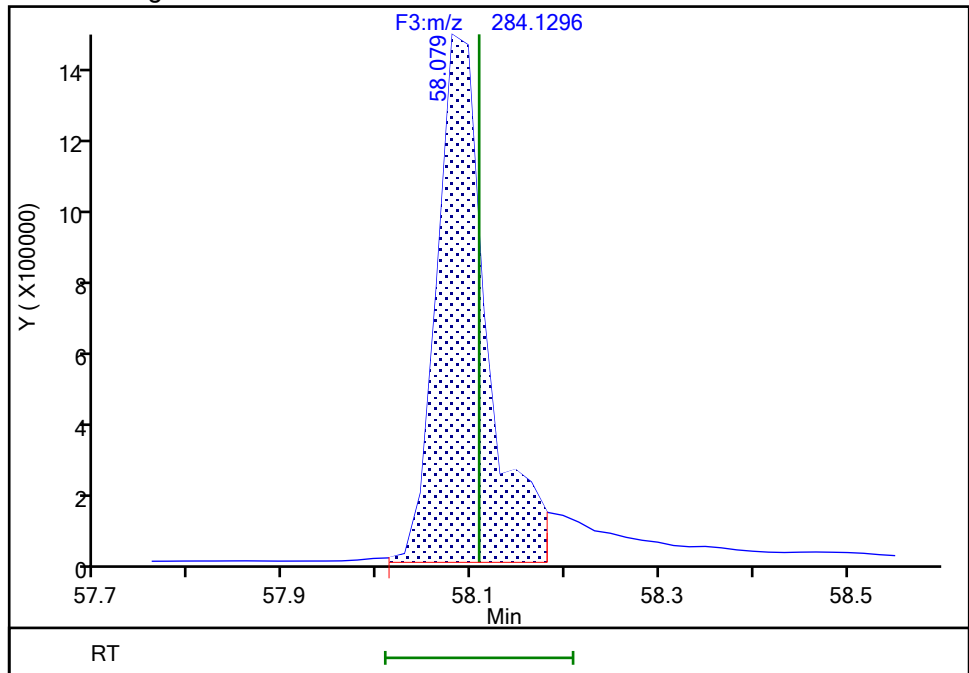
RT: 58.08
Area: 6188850
Amount: 94.535163
Amount Units: pg/ul

Processing Integration Results



RT: 58.08
Area: 5580937
Amount: 91.018729
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	12167731		3.3746	100.5	100.5	0.005992	0.005992	101	
Naphthalene	11:33	29145441		1.2893	185.8	185.8	0.0302	0.0302	92.89	
D 13C6-2-Methylnaphthalene	13:51	5800321		1.6031	100.9	100.9	0.000868	0.000868	101	
2-Methylnaphthalene	13:52	13752752		1.2786	185.4	185.4	0.0170	0.0170	92.72	
D 13C6-Acenaphthylene	16:45	5949897		1.6520	100.4	100.4	0.001338	0.001338	100	
Acenaphthylene	16:45	15960871		2.3661	190.8	190.8	0.0260	0.0260	95.38	
* Acenaphthene-d10	17:19	3587138		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3536065		0.9792	100.7	100.7	0.001672	0.001672	101	
Acenaphthene	17:26	8485152		1.2697	189.0	189.0	0.0254	0.0254	94.50	
D 13C6-Fluorene	19:44	3285389		0.8898	102.9	102.9	0.000460	0.000460	103	
Fluorene	19:44	7921341		1.2532	192.4	192.4	0.0279	0.0279	96.20	
D 13C6-Phenanthrene	25:07	4953590		0.5724	107.6	107.6	0.004222	0.004222	108	
Phenanthrene	25:07	10408886		1.1044	190.3	190.3	0.0318	0.0318	95.13	
\$ Anthracin-d10	25:20	3540252		0.4257	103.4	103.4	0.001074	0.001074	103	
D 13C6-Anthracene	25:27	3744430		0.4523	102.9	102.9	0.005343	0.005343	103	
Anthracene	25:27	9842331		1.3586	193.5	193.5	0.0340	0.0340	96.74	
D 13C6-Fluoranthrene	33:52	9842103		1.1994	102.0	102.0	0.0188	0.0188	102	
Fluoranthrene	33:53	21447849		1.1513	189.3	189.3	0.0142	0.0142	94.64	
* Pyrene-d10	35:25	8045261		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	11042272		1.3512	101.6	101.6	0.0128	0.0128	102	
Pyrene	35:34	22057676		1.0652	187.5	187.5	0.0142	0.0142	93.76	
\$ 13C6-Benzo(c)fluorene	39:17	4148931		0.5136	100.4	100.4	0.003816	0.003816	100	
D 13C6-Benzo(a)anthracene	46:06	8485215		1.5189	96.3	96.3	0.0132	0.0132	96.33	
Benzo[a]anthracene	46:07	15614632		0.9739	189.0	189.0	0.0283	0.0283	94.48	
D 13C6-Chrysene	46:22	9283915		1.6287	98.3	98.3	0.0123	0.0123	98.29	
Chrysene	46:23	17201644		0.9815	188.8	188.8	0.0268	0.0268	94.39	
D 13C6-Benzo(b)fluoranthene	54:38	8615715		1.4621	101.6	101.6	0.001318	0.001318	102	
Benzo[b]fluoranthene	54:39	18032275		1.1249	186.1	186.1	0.006779	0.006779	93.03	
\$ 13C12-Benzo(j)fluoranthene	54:40	7928880		1.3558	100.8	100.8	0.0149	0.0149	101	
D 13C6-Benzo(k)fluoranthene	54:46	10118186		1.7507	99.7	99.7	0.001101	0.001101	99.66	
Benzo[k]fluoranthene	54:46	21097665		1.1271	185.0	185.0	0.006303	0.006303	92.50	
* Benzo(e)pyrene-d12	55:30	5799368		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9276322		1.6368	97.7	97.7	0.009757	0.009757	97.72	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	17407219		1.0013	187.4	187.4	0.005897	0.005897	93.71	
Benzo[a]pyrene	55:43	18599410		1.1130	190.5	190.5	0.005858	0.005858	95.25	
D 13C4-Benzo(a)pyrene	55:43	8772202		1.5508	97.5	97.5	0.0103	0.0103	97.54	
D Perylene-d12	55:53	7004851		1.1917	101.4	101.4	0.0158	0.0158	101	
Perylene	55:57	19642615		1.4307	196.0	196.0	0.005442	0.005442	98.00	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	6349503		1.0218	107.1	107.1	0.009809	0.009809	107	M
Indeno[1,2,3-cd]pyrene	58:01	12310533		1.1249	172.3	172.3	0.006392	0.006392	86.17	
D 13C6-Dibenz(a,h)anthracene	58:06	6110020		1.0553	99.8	99.8	0.005219	0.005219	99.84	M
Dibenz(a,h)anthracene	58:06	12538607		1.1314	181.4	181.4	0.005625	0.005625	90.69	M
D 13C12-Benzo(ghi)perylene	58:30	7551974		1.2749	102.1	102.1	0.005184	0.005184	102	M
Benzo[g,h,i]perylene	58:31	17229589		1.2838	177.7	177.7	0.004988	0.004988	88.86	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-007
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.666	12167731	4165041	99	247	42071		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	29145441	9997251	649	1622	15404		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	5800321	2698809	7	17	385544		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	13752752	6450856	235	587	27450		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.966	5949897	2135616	11	27	194147		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	15960871	5725962	305	762	18774		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3587138	1221597	2	5	610799		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3536065	1238157	8	20	154770		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	8485152	2885513	160	400	18034		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3285389	978999	2	5	489500		
Fluorene											
166.0783	19:44	19:45	-1	1.000	7921341	2350494	137	342	17157		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4953590	1157531	15	37	77169		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	10408886	2455362	163	407	15064		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3540252	830170	3	7	276723		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3744430	880289	15	37	58686		
Anthracene											
178.0783	25:27	25:28	-1	1.000	9842331	2230606	163	407	13685		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9842103	1935757	138	345	14027		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	21447849	4259881	127	317	33542		
Pyrene-d10											
212.1404	35:25	35:27	-1		8045261	1530843	49	122	31242		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	11042272	2101643	106	265	19827		
Pyrene											
202.0783	35:34	35:35	-1	1.000	22057676	4203969	127	317	33102		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4148931	752708	12	30	62726		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8485215	1511187	146	365	10351		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	15614632	2786413	167	417	16685		
13C6-Chrysene											
234.1140	46:22	46:24	-2	1.309	9283915	1587692	146	365	10875		
Chrysene											
228.0939	46:23	46:25	-2	1.000	17201644	2935186	167	417	17576		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8615715	2255354	14	35	161097		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	18032275	4894763	69	172	70939		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7928880	2019955	147	367	13741		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	10118186	2421215	14	35	172944		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	21097665	5269334	69	172	76367		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5799368	1815765	137	342	13254		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9276322	2912882	116	290	25111		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	17407219	5763329	69	172	83527		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	18599410	5665848	69	172	82114		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8772202	2638078	116	290	22742		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	7004851	2209250	137	342	16126		
Perylene											
252.0939	55:57	55:58	-1	1.001	19642615	6384987	69	172	92536		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	0	1.046	6349503	1946937	73	182	26670		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-1	1.000	12310533	3867925	56	140	69070		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	0	1.047	6110020	1681244	40	100	42031		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	0	1.000	12538607	3613228	43	107	84029		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	7551974	2186484	48	120	45552		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	17229589	4719941	56	140	84285		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

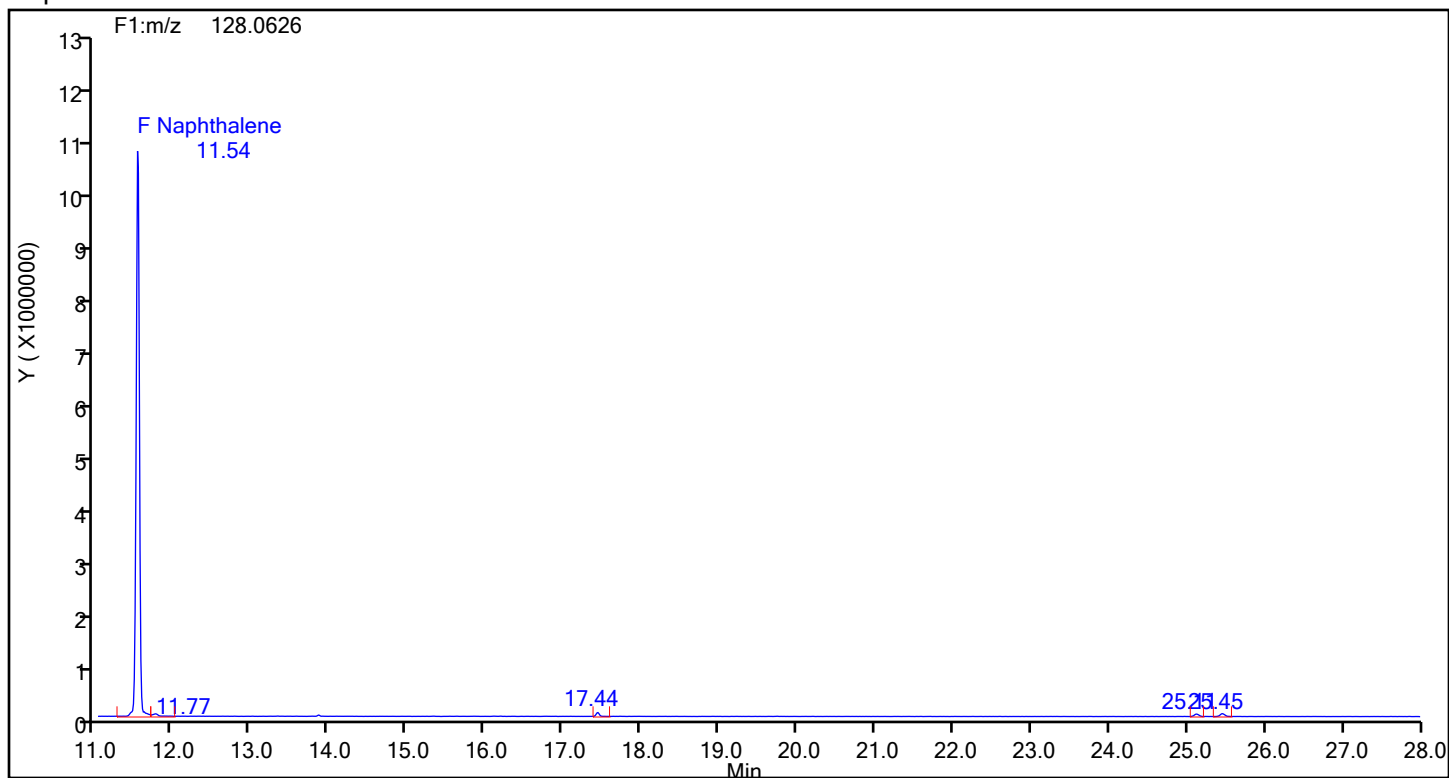
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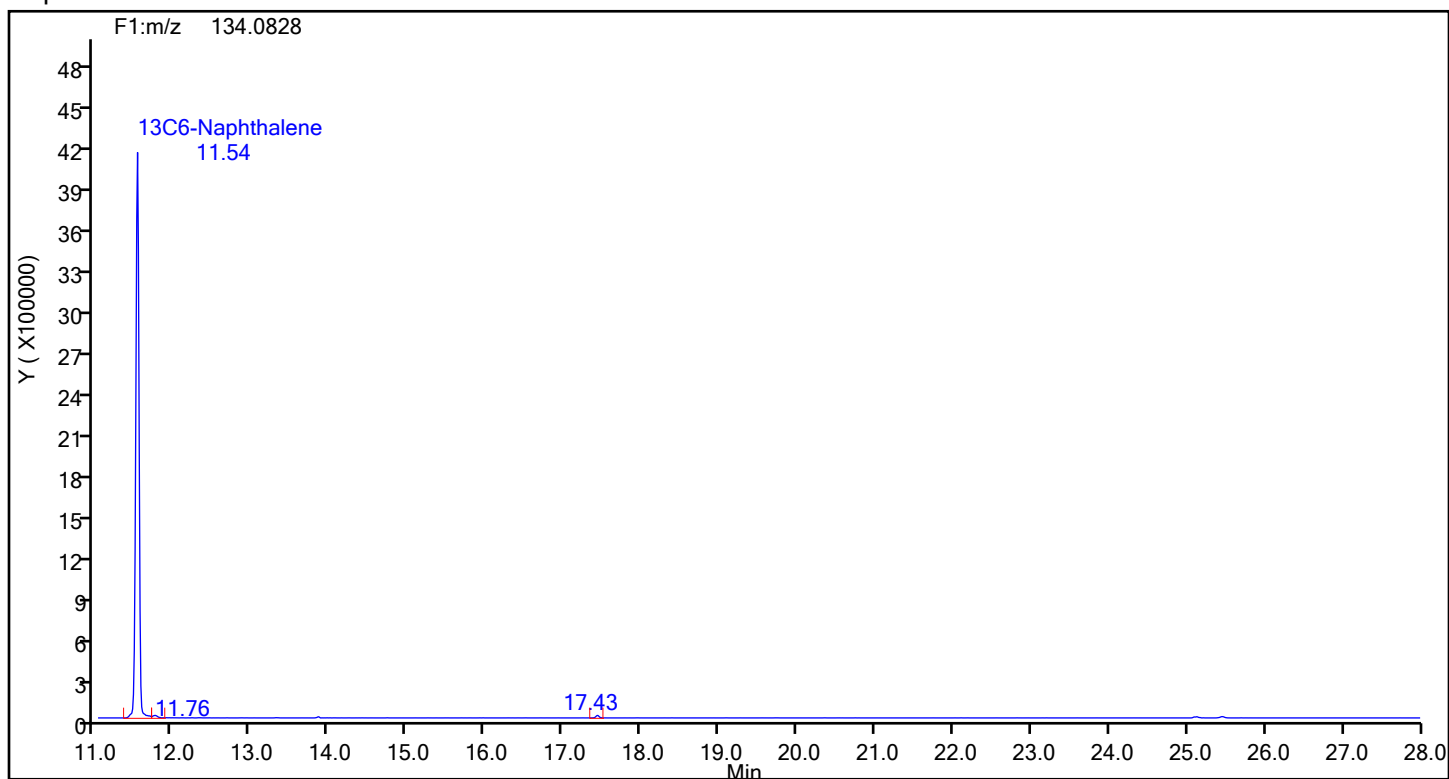
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



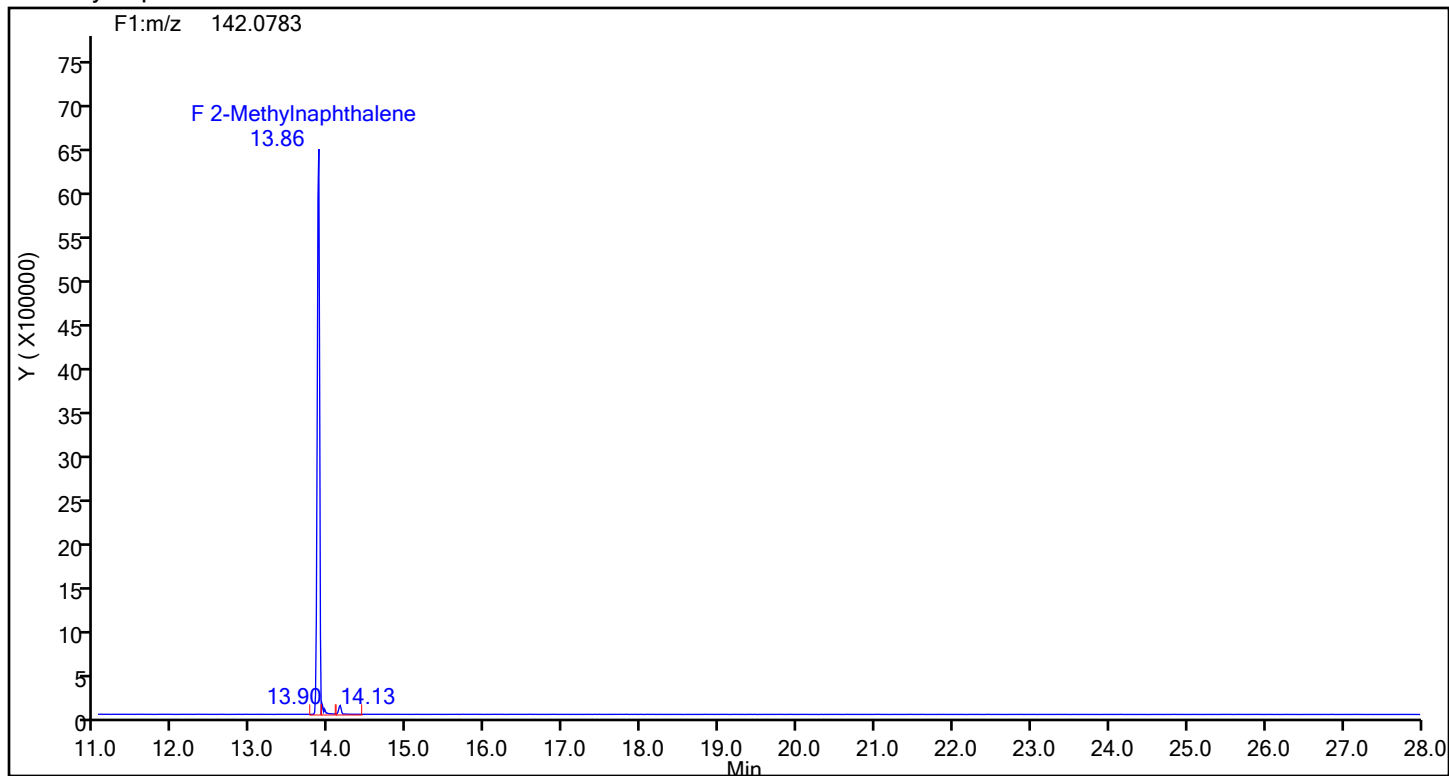
Naphthalene Standards



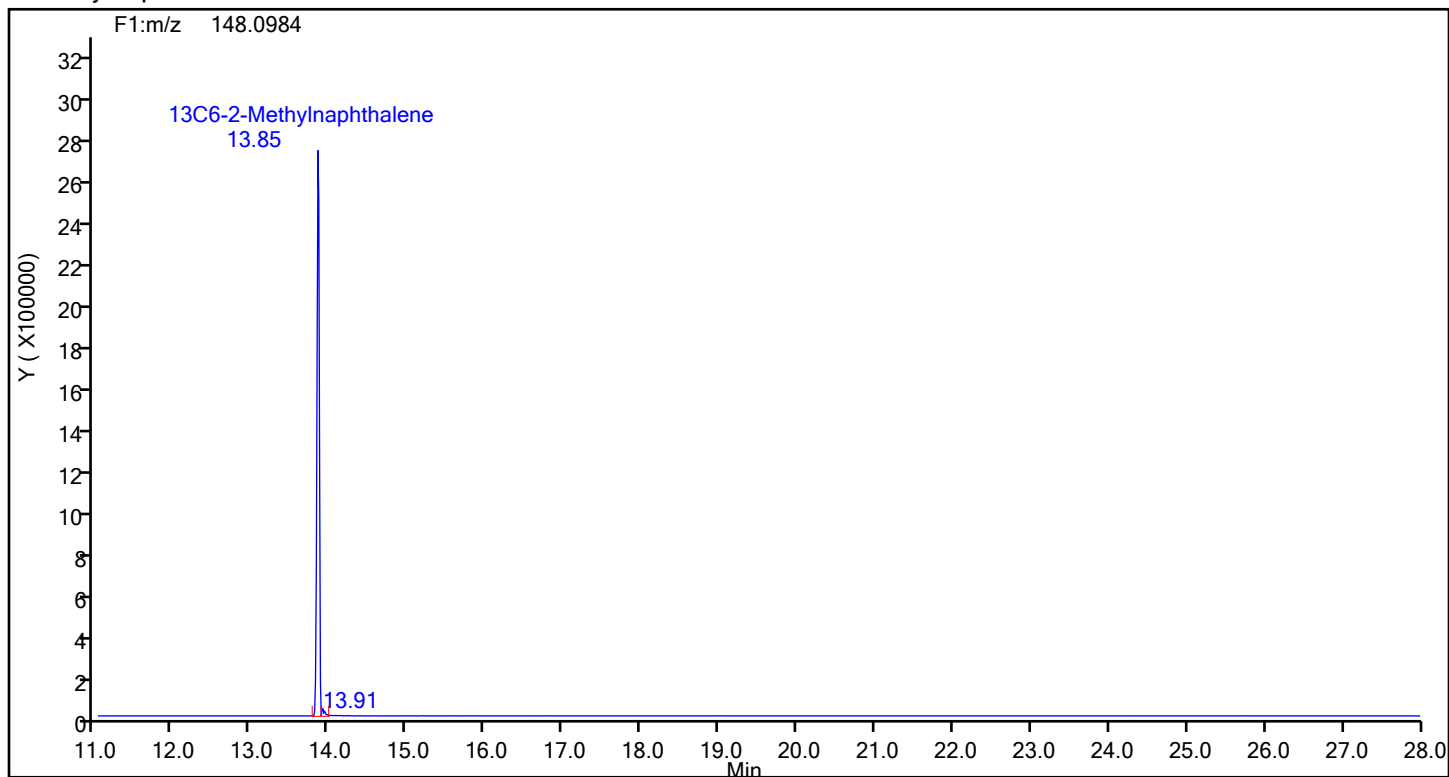
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2-Methylnaphthalene



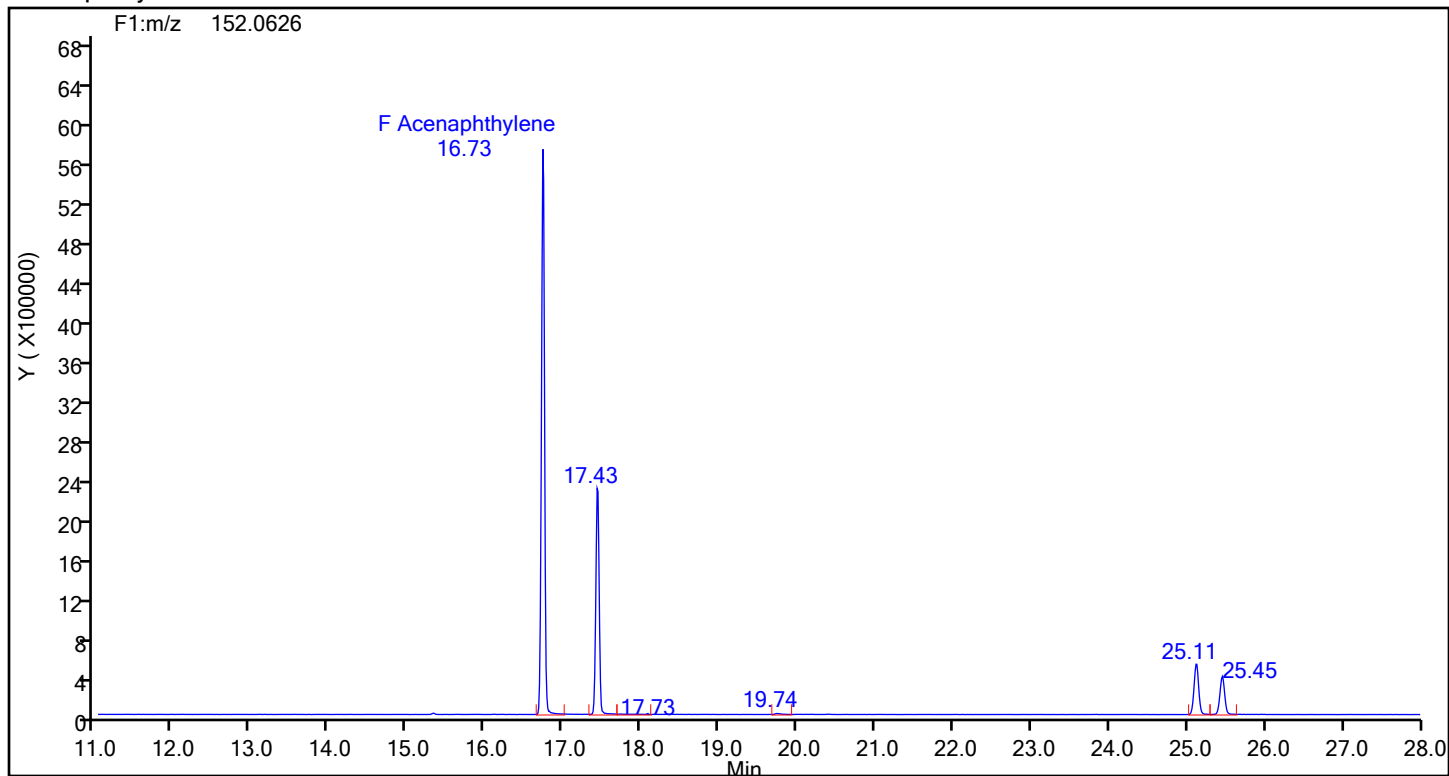
2-Methylnaphthalene Standards



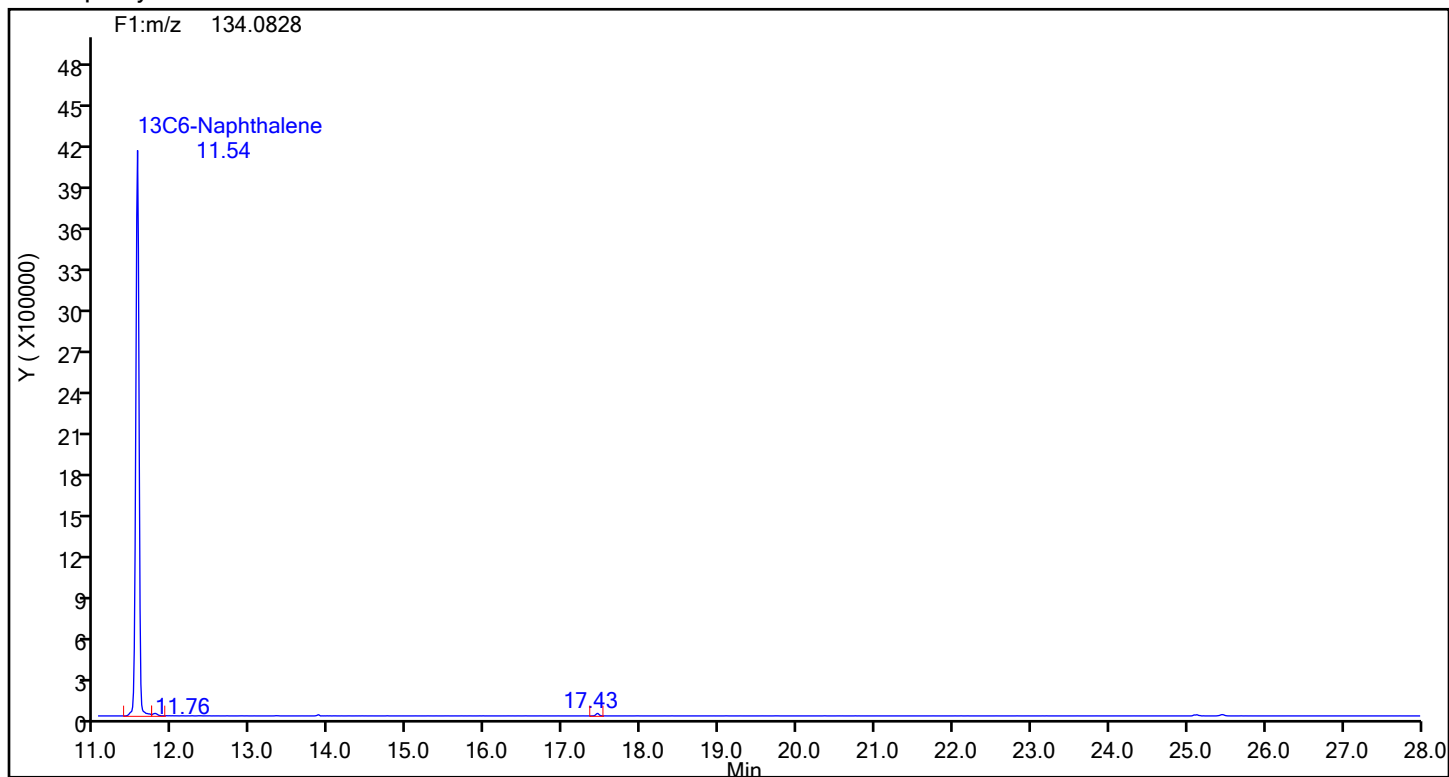
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



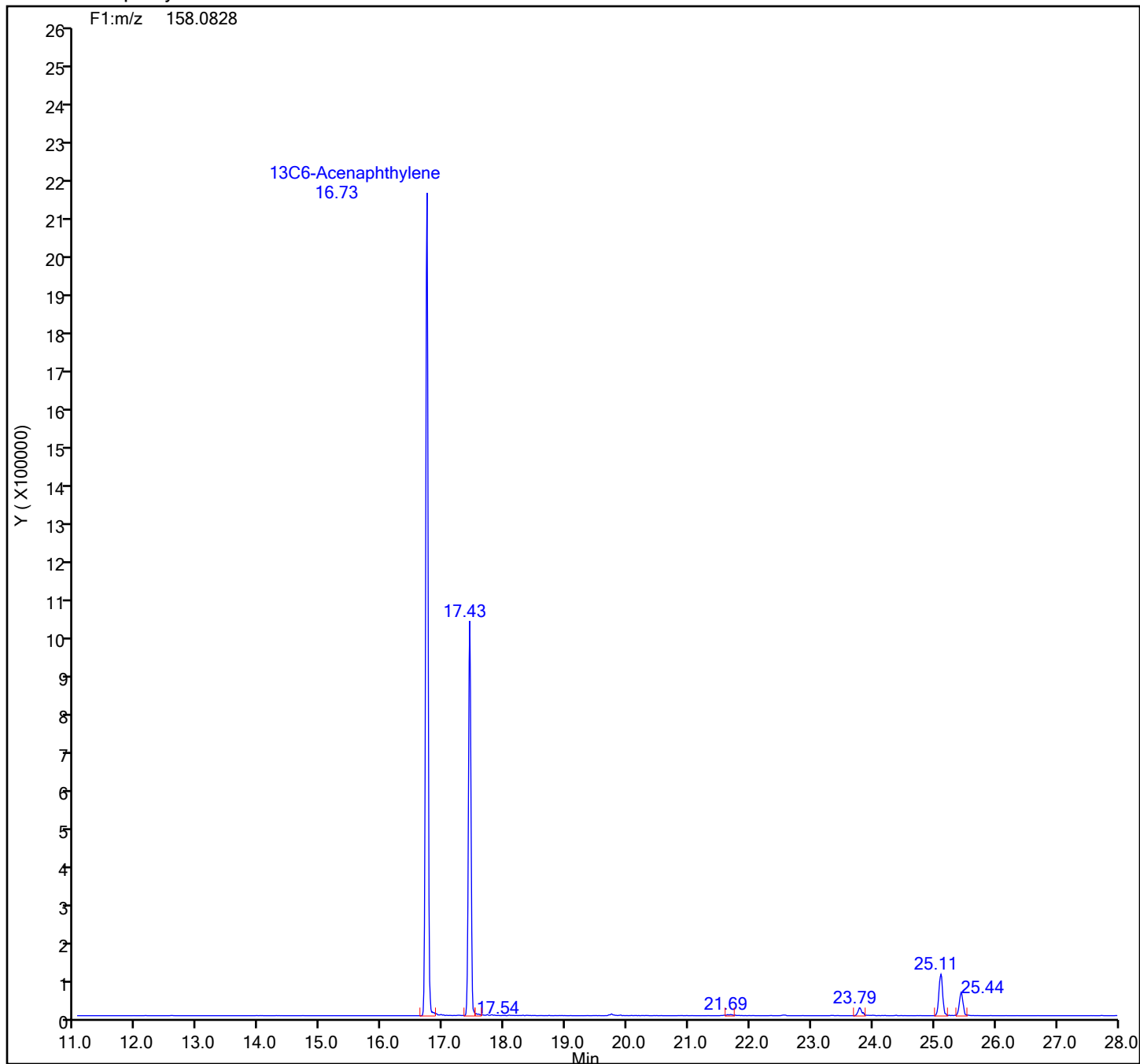
Acenaphthylene Standards



Eurofins Knoxville

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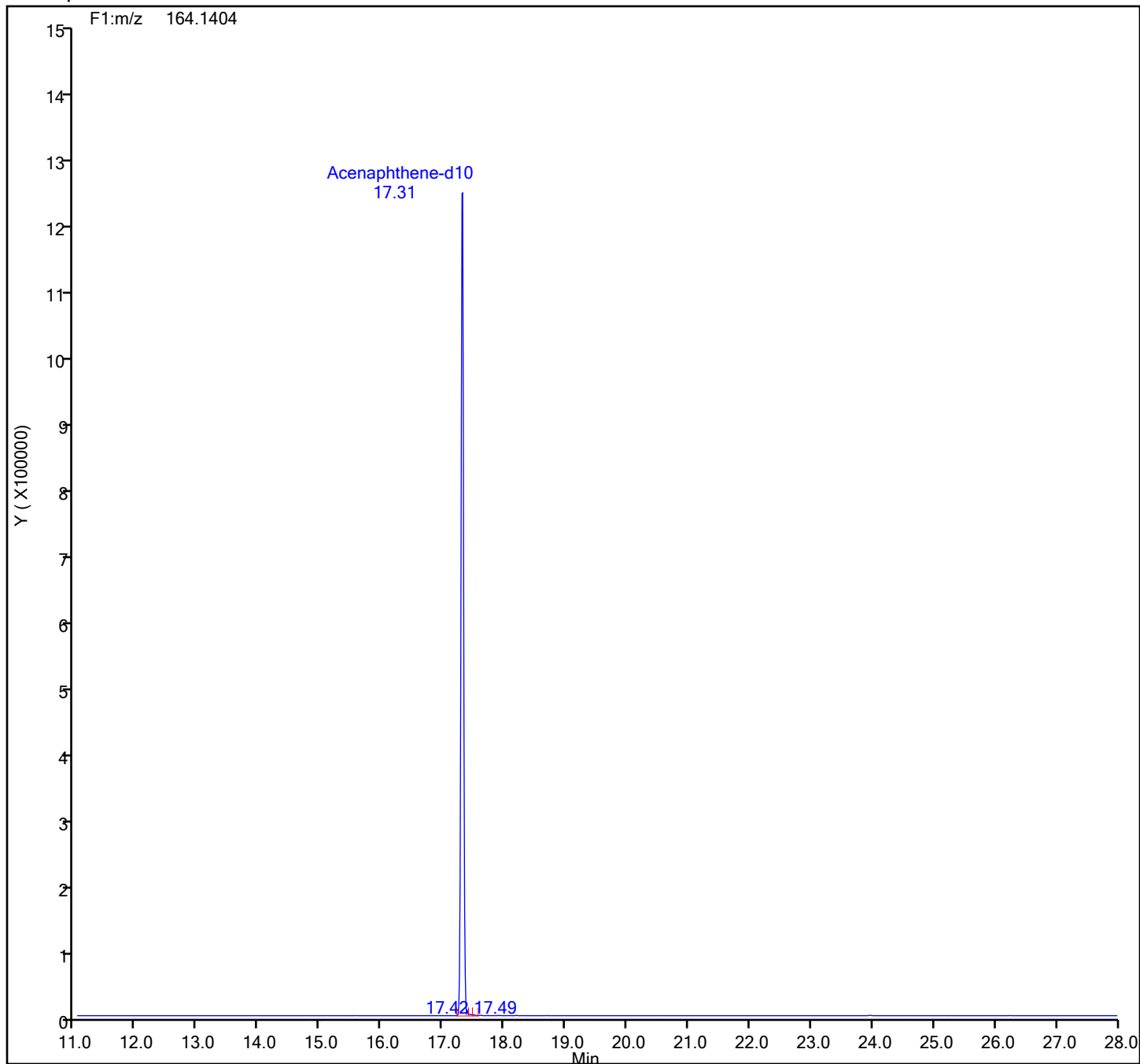
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

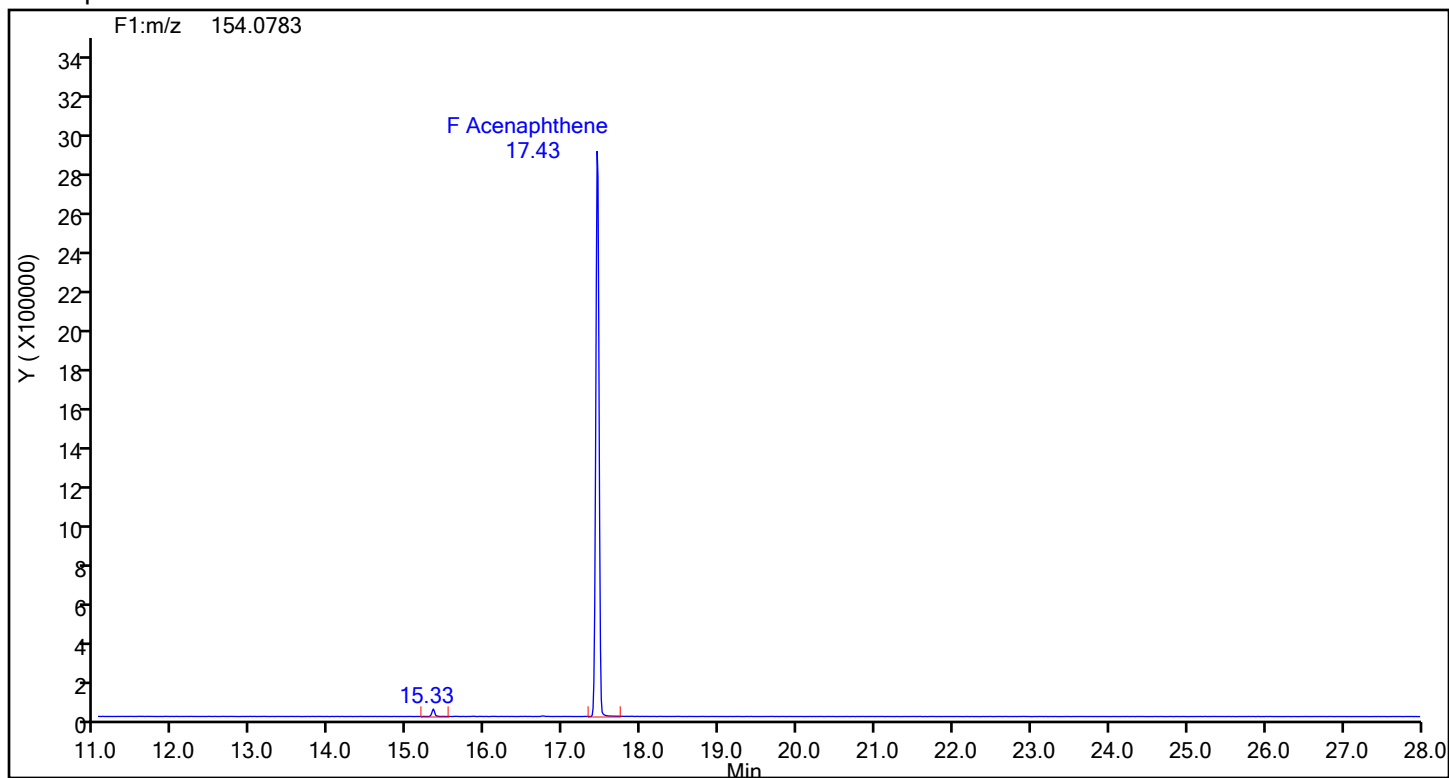
Acenaphthene-d10 Standards



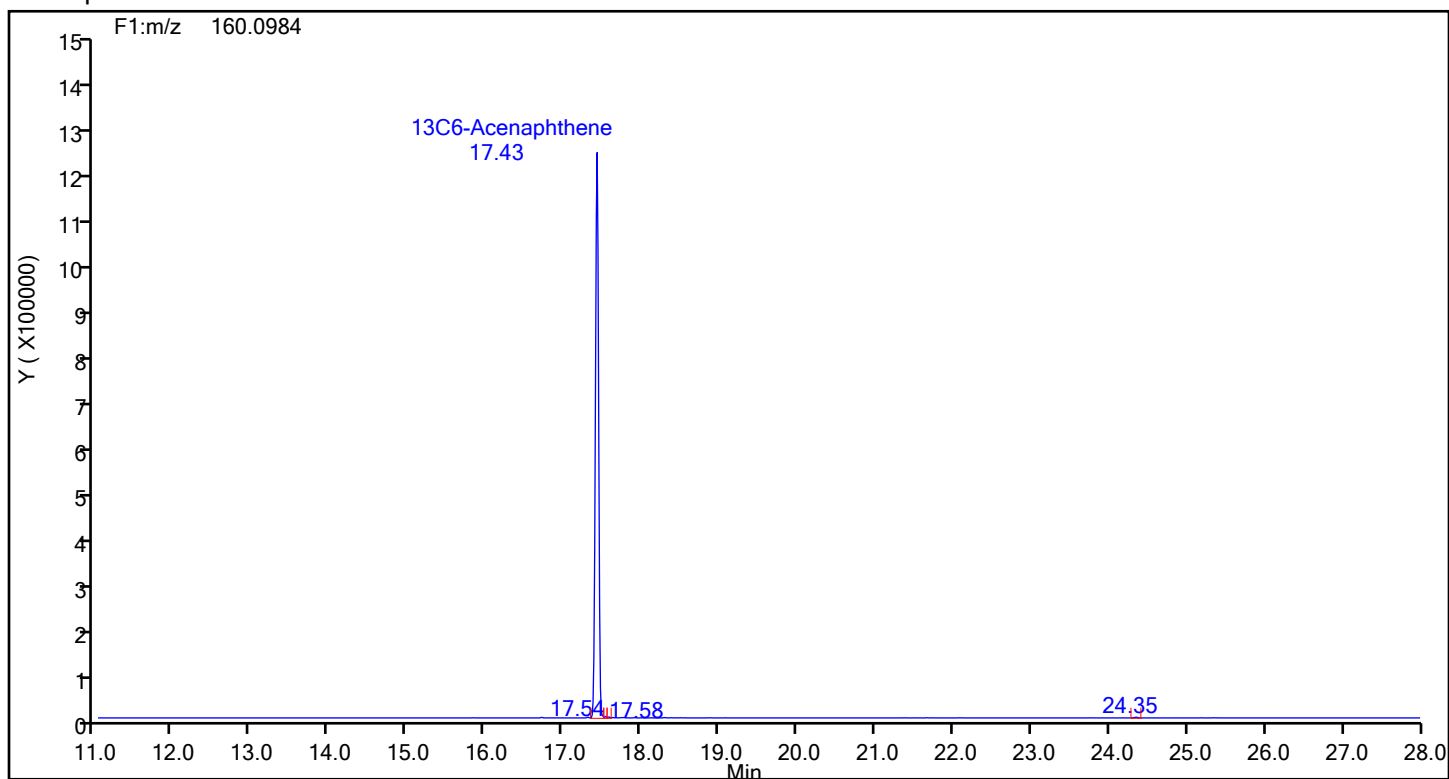
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Acenaphthene



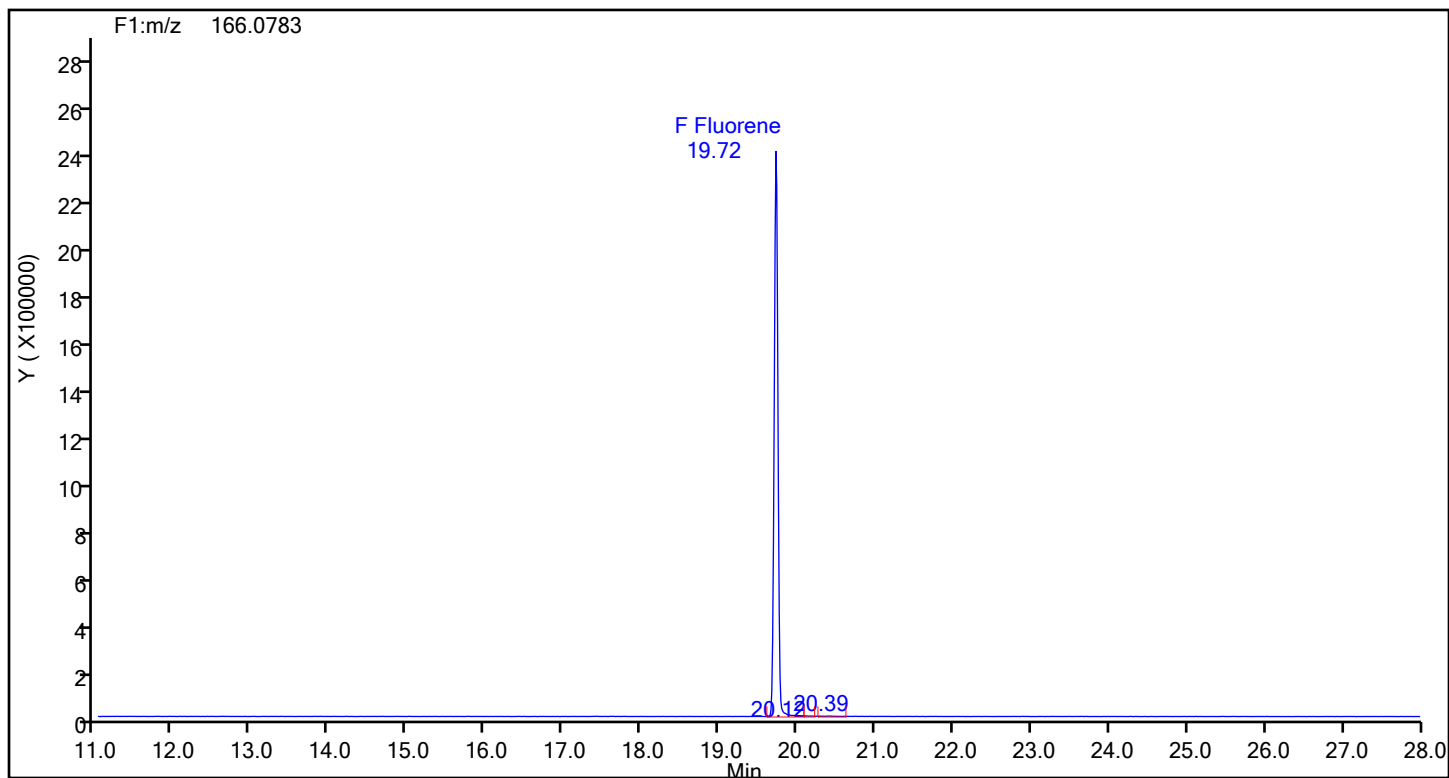
Acenaphthene Standards



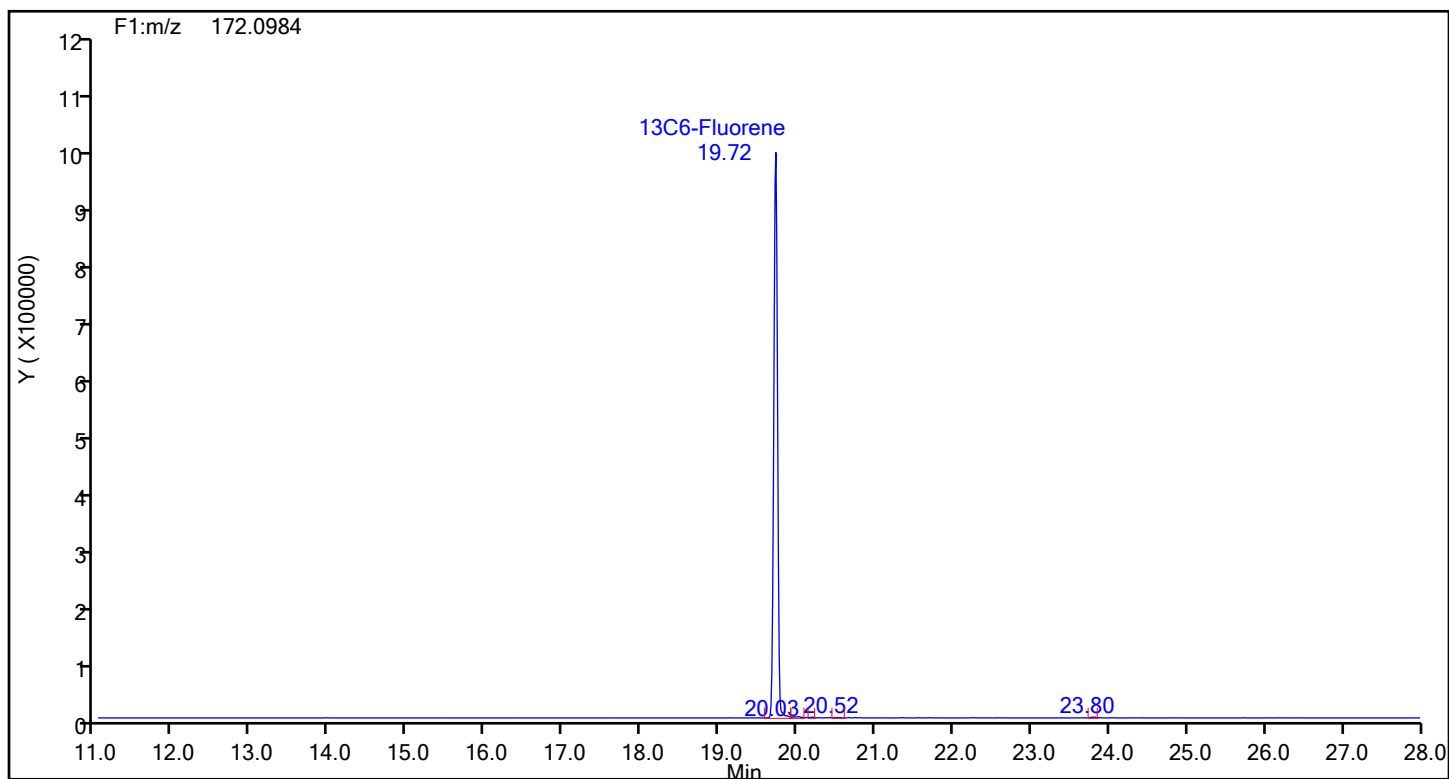
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



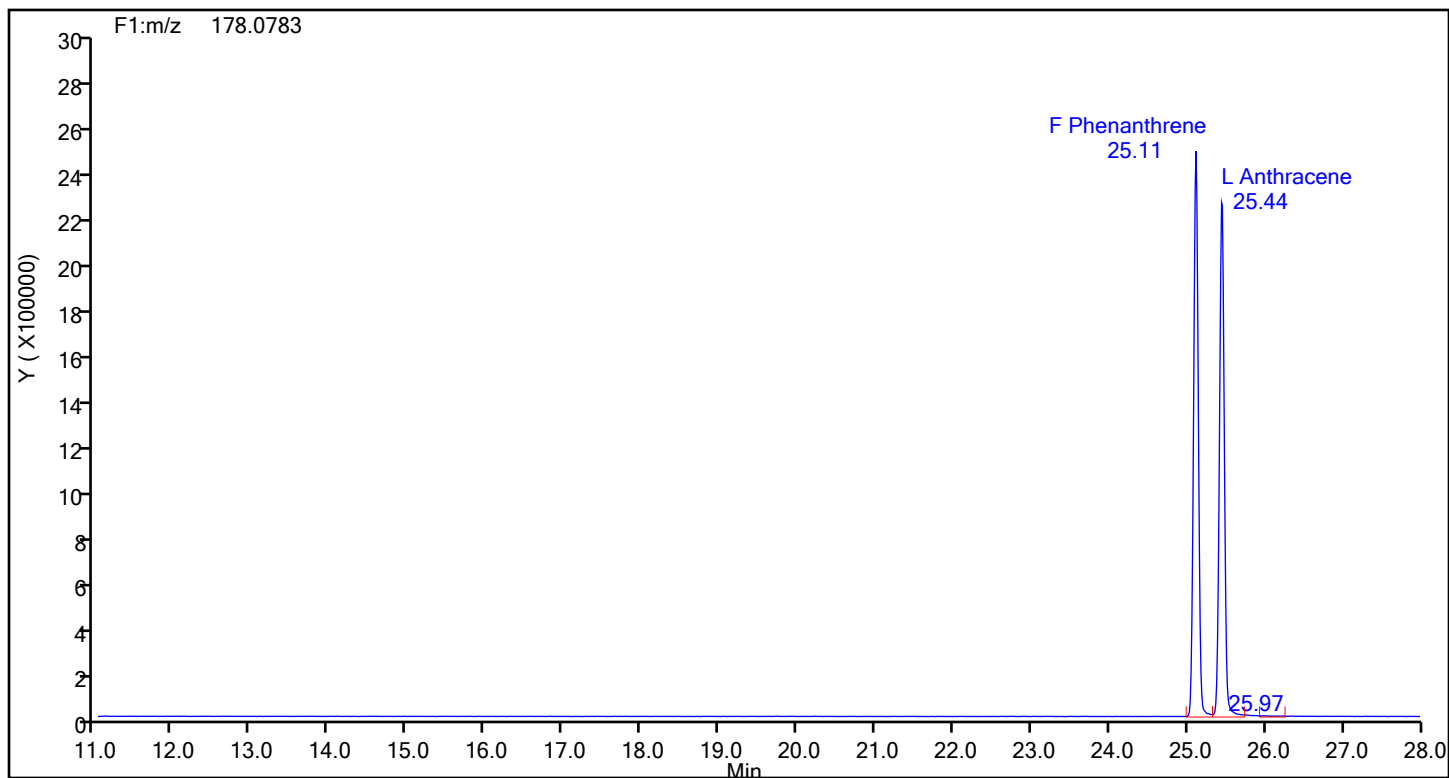
Fluorene Standards



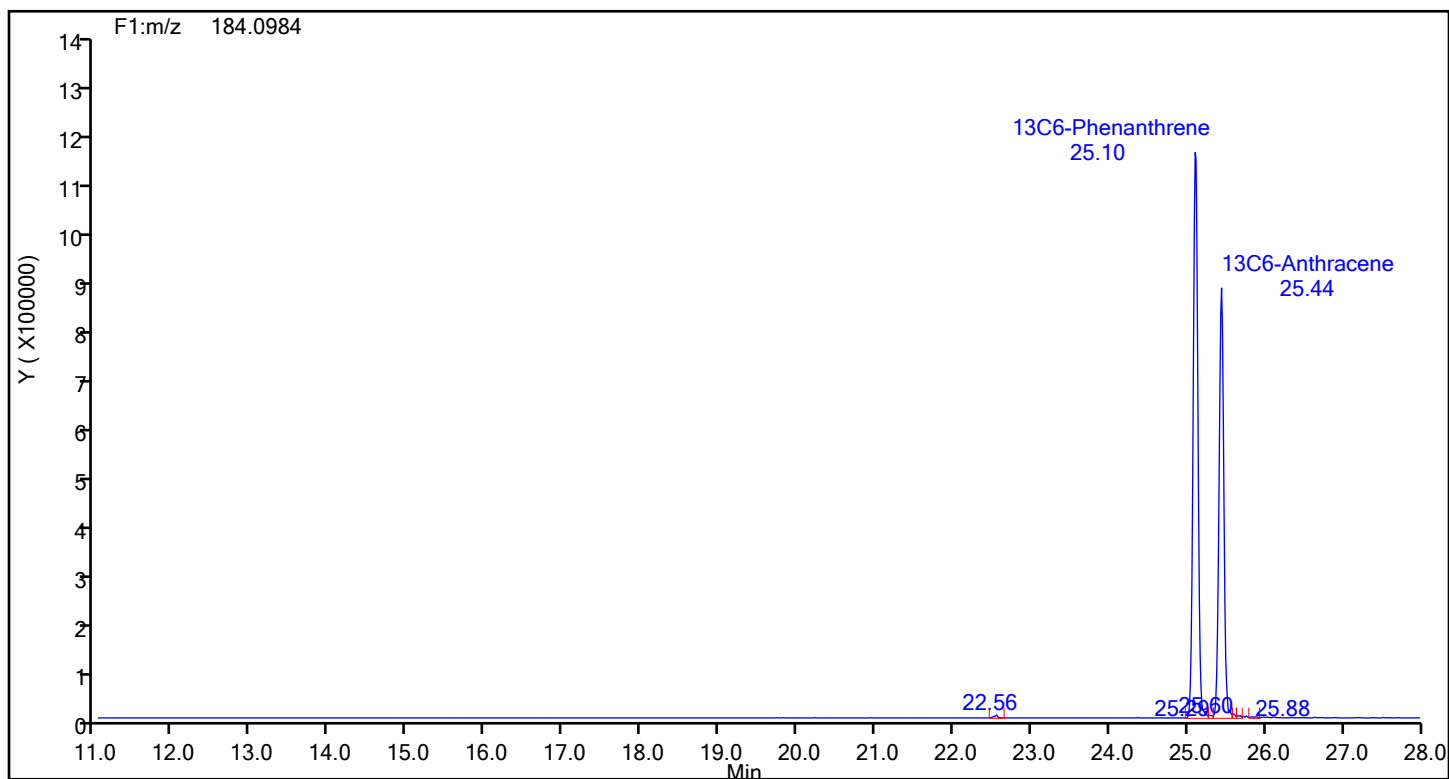
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

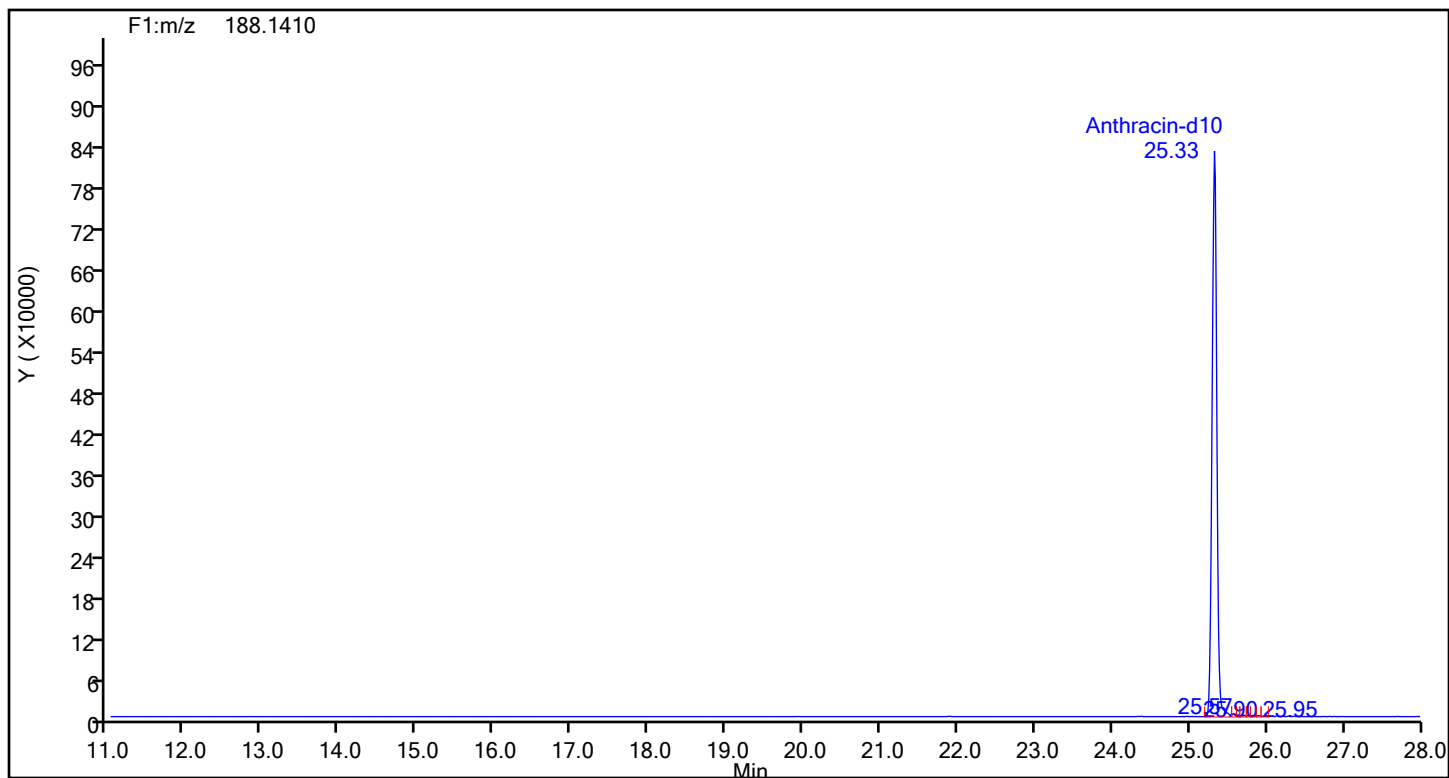


Phenanthrene Standards

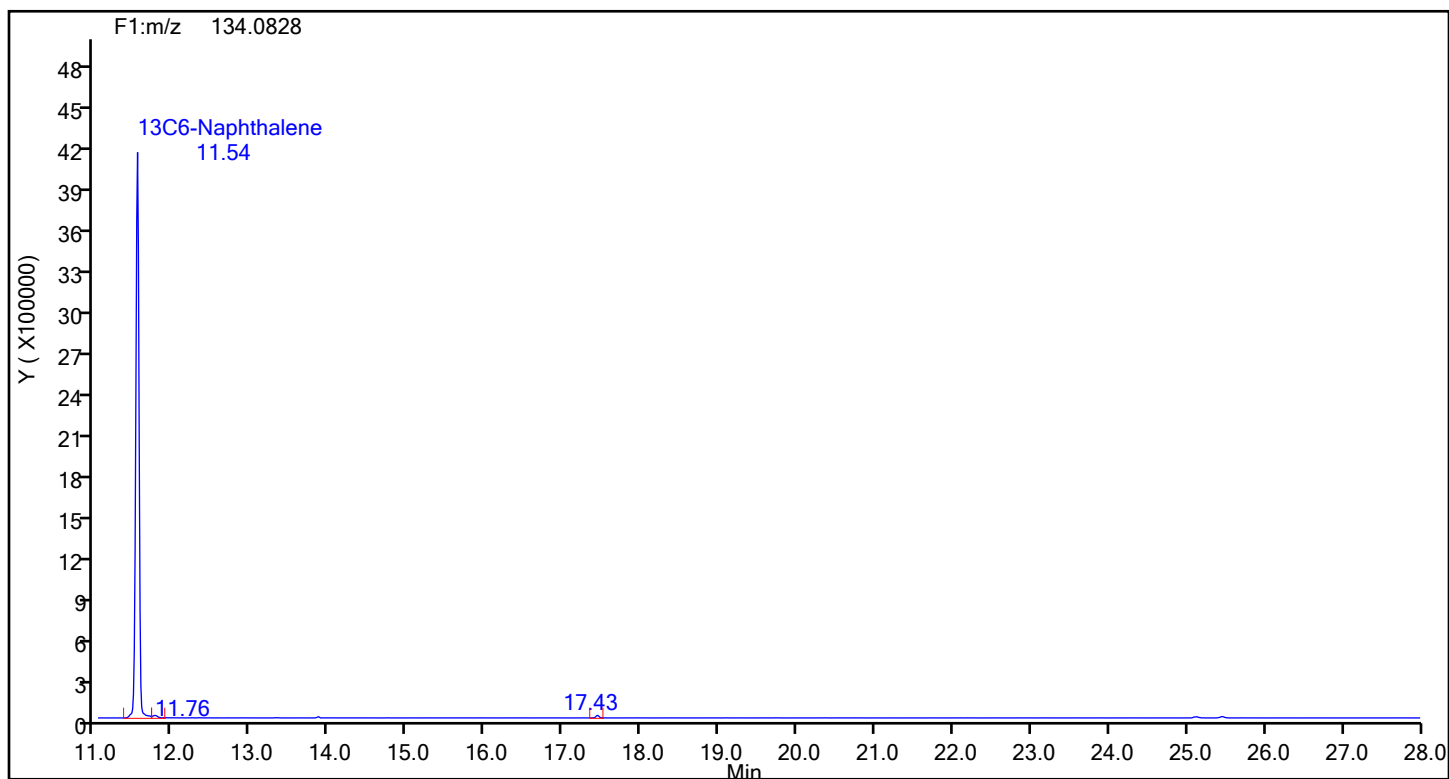


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Anthracin-d10

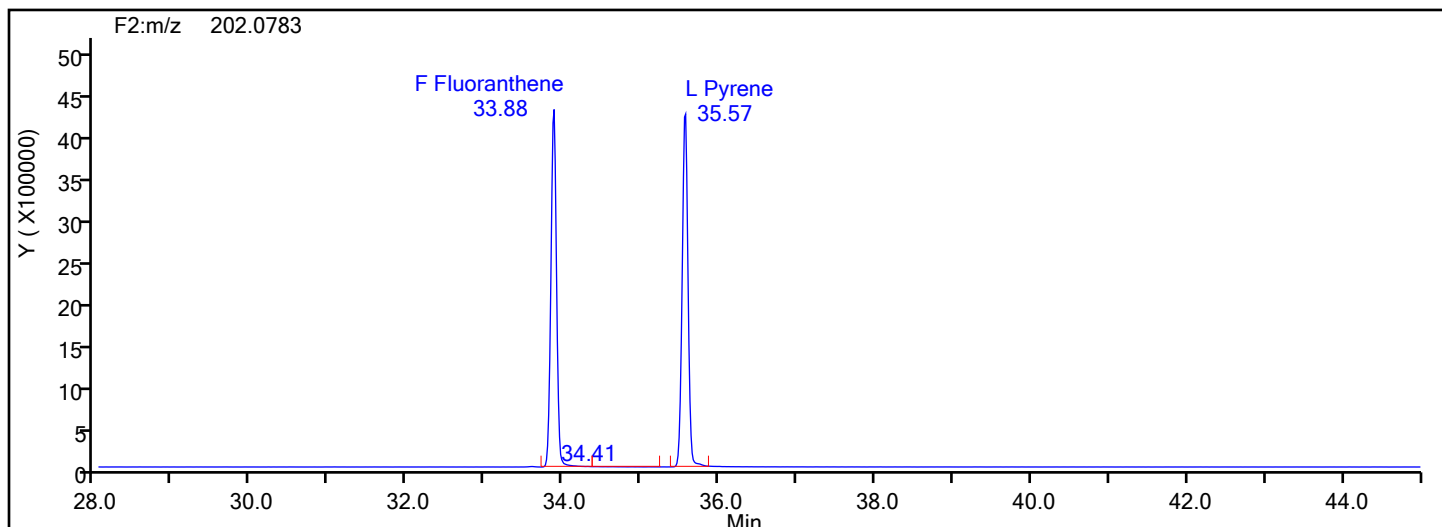


Anthracin-d10 Standards

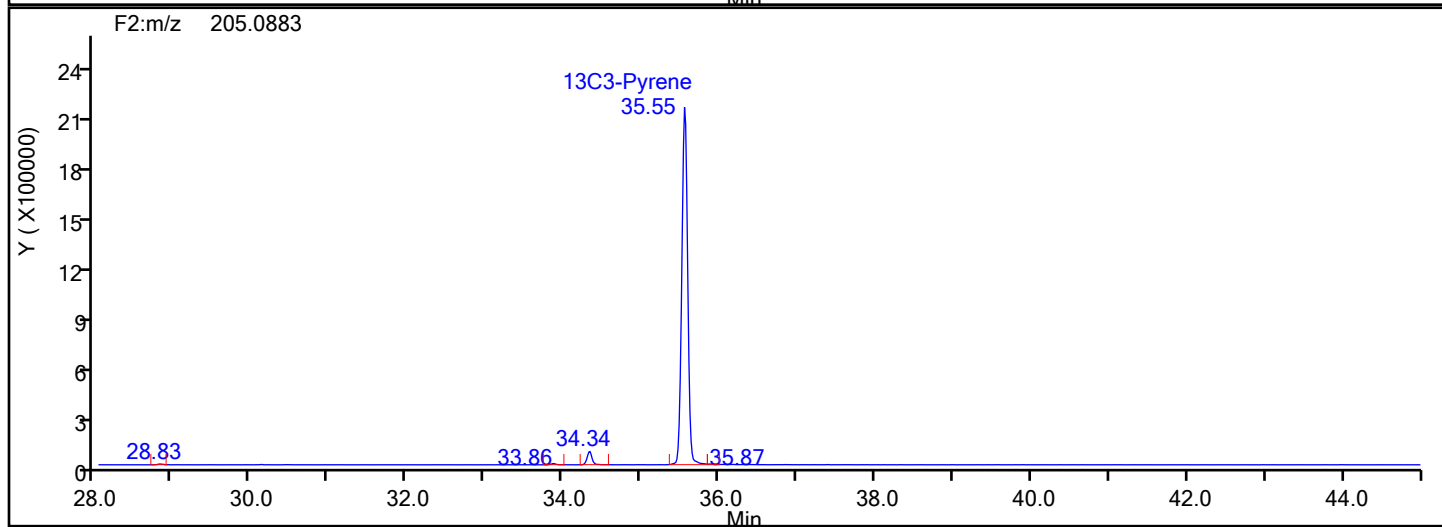
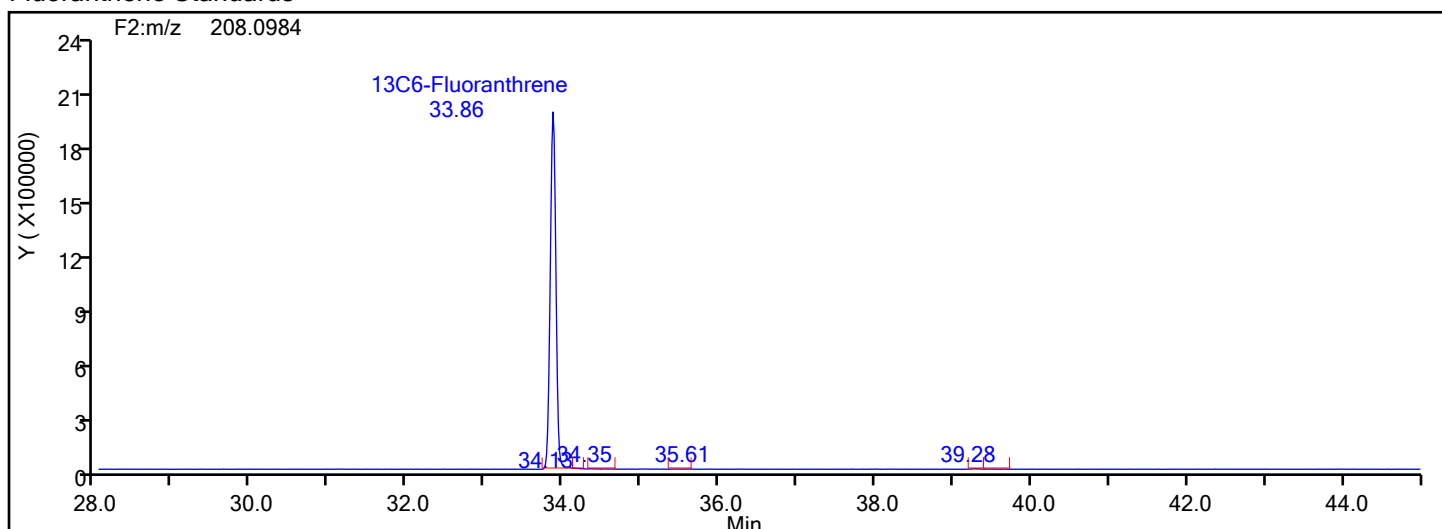


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Fluoranthene



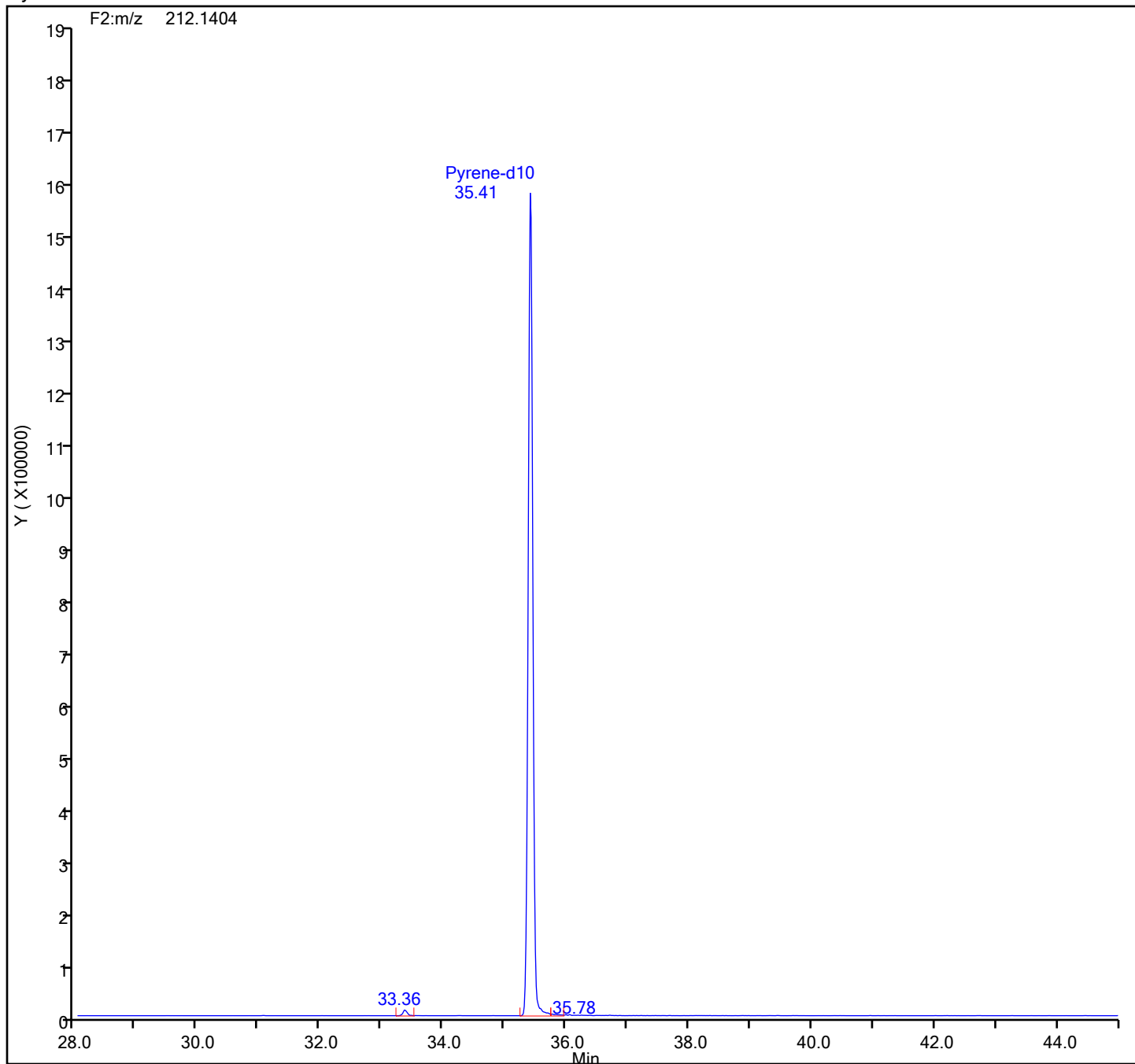
Fluoranthene Standards



Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

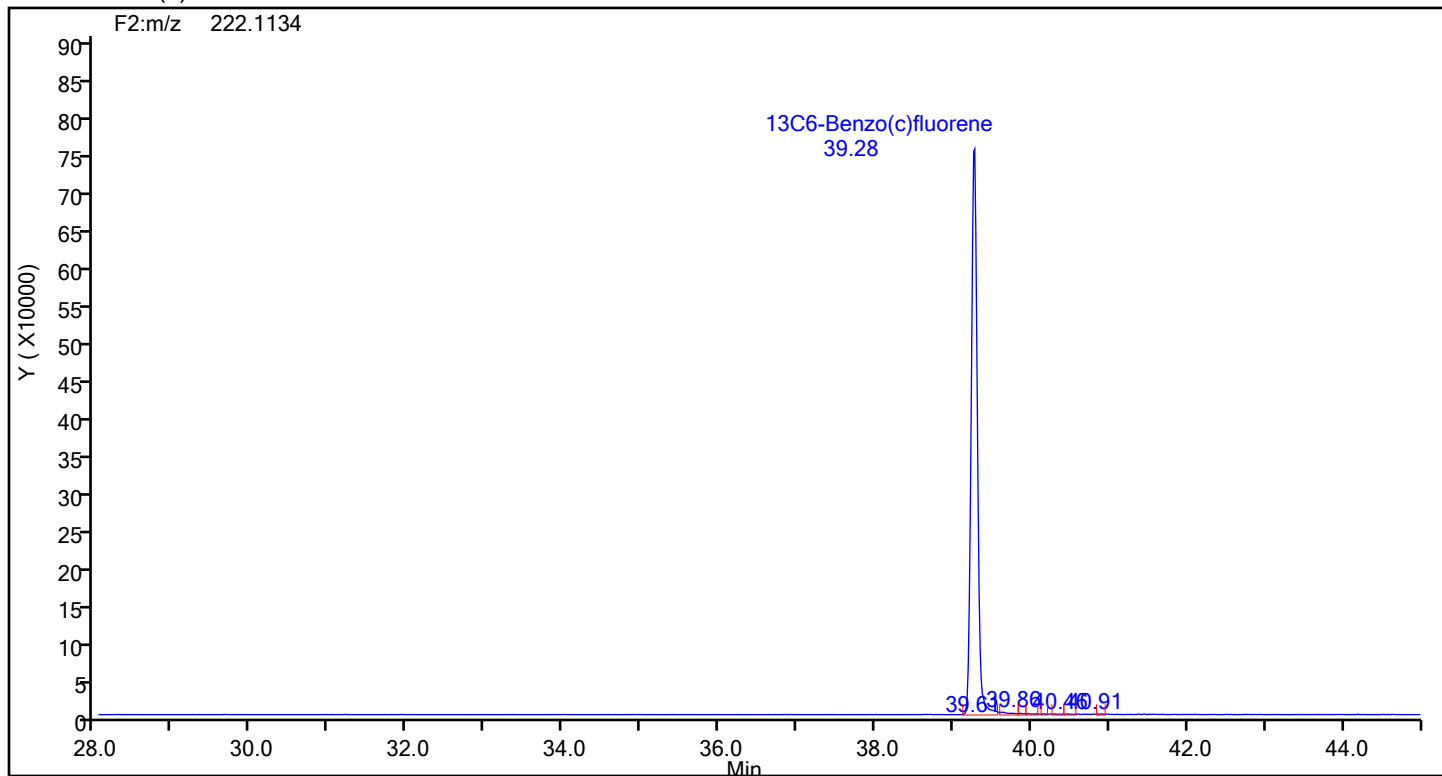
Pyrene-d10 Standards



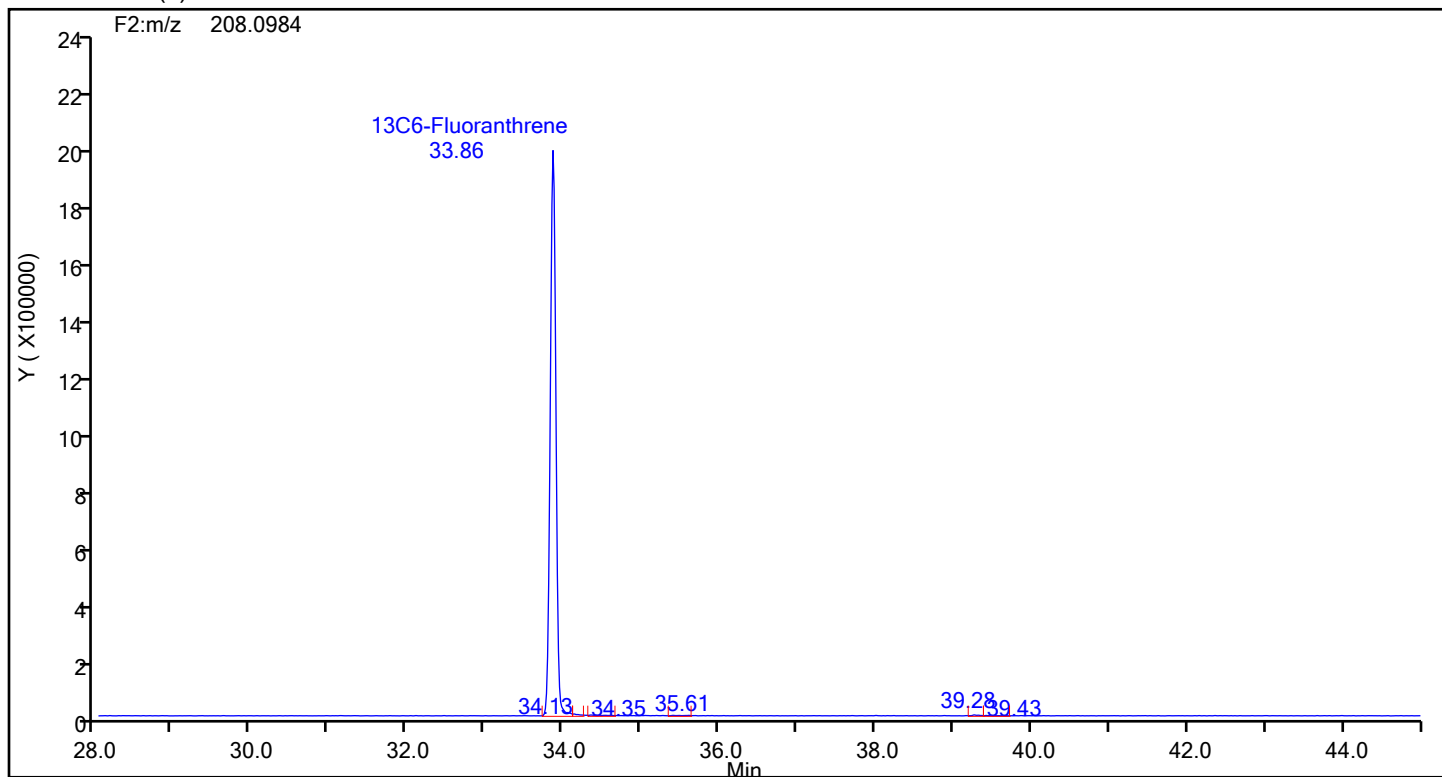
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



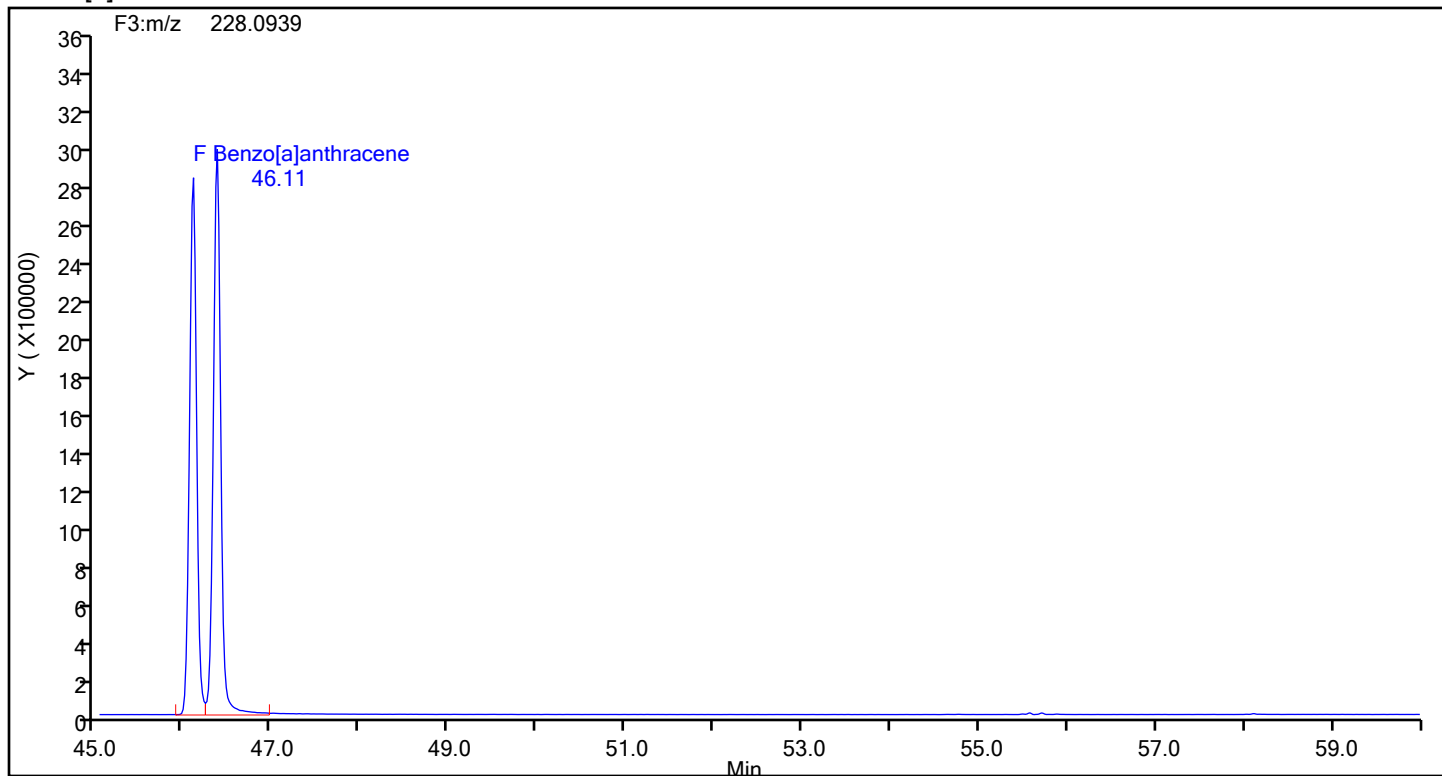
13C6-Benzo(c)fluorene Standards



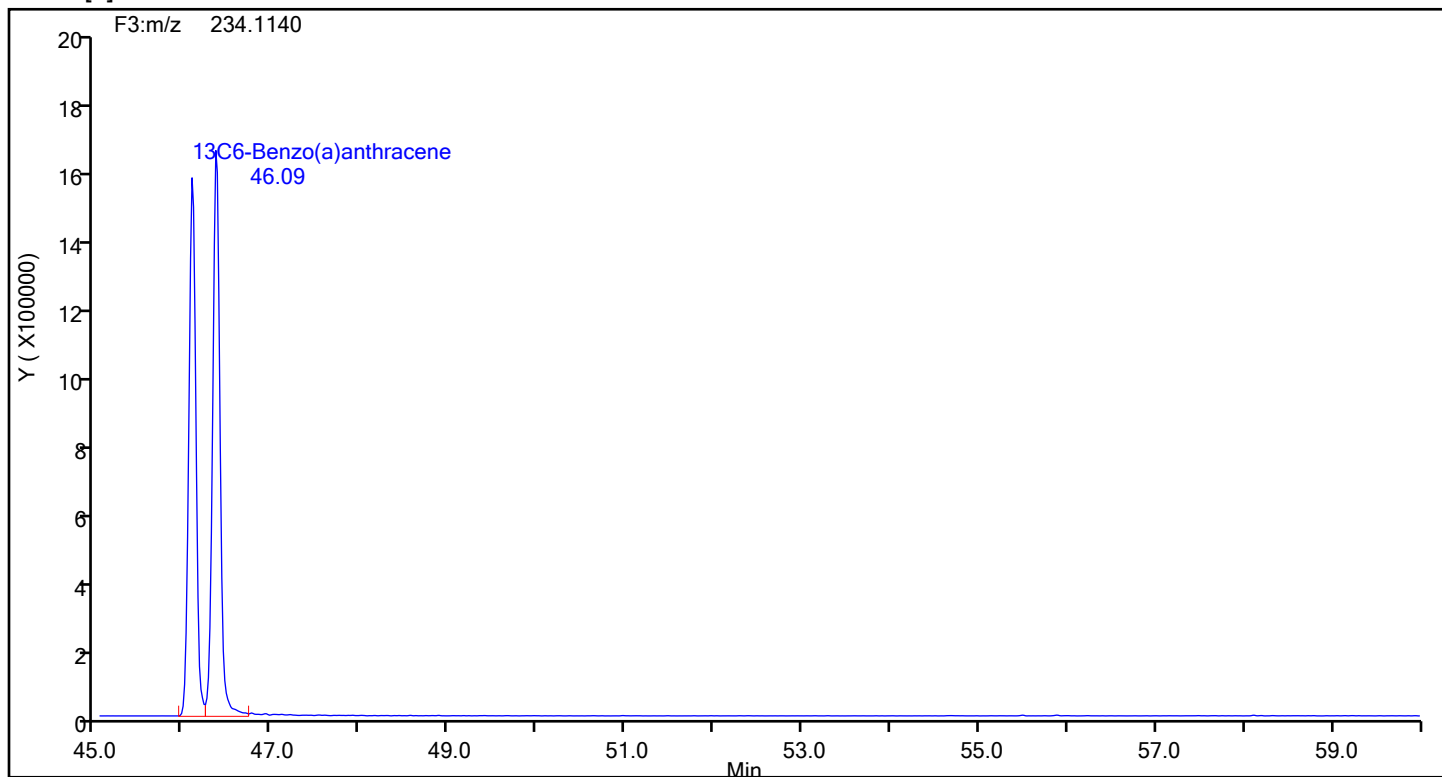
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Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



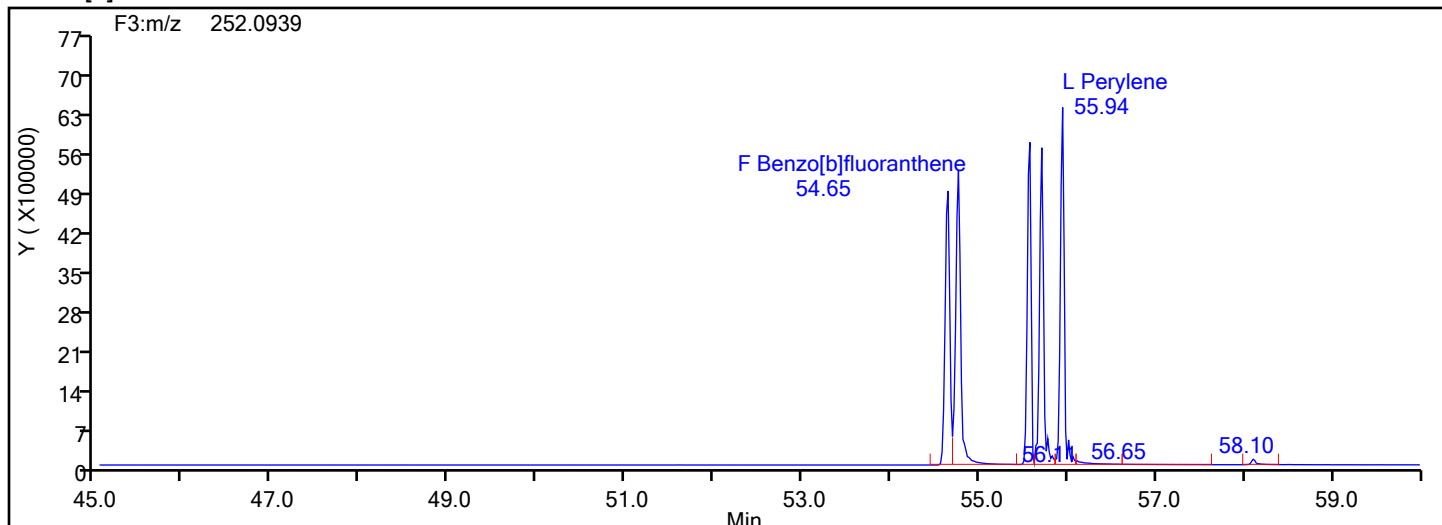
Benzo[a]anthracene Standards



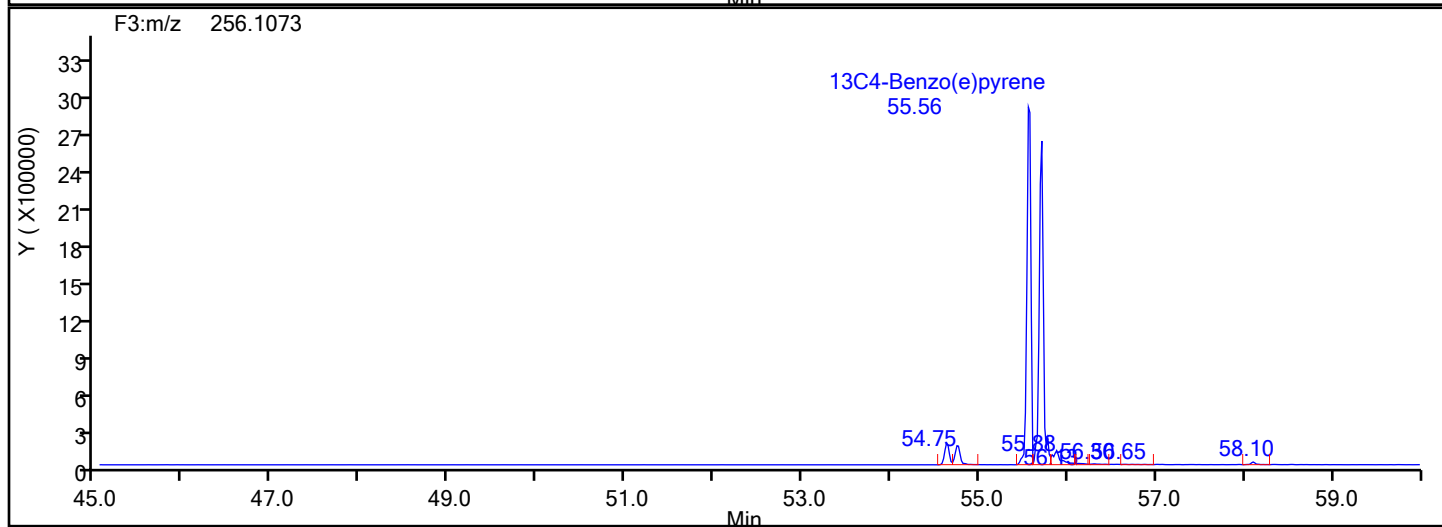
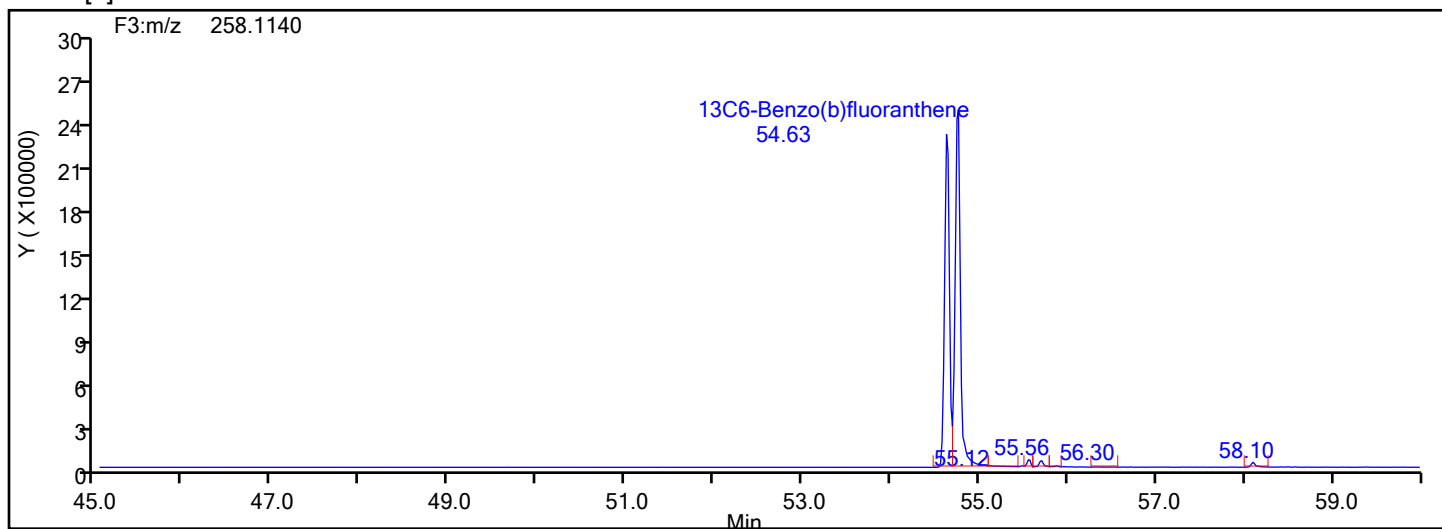
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



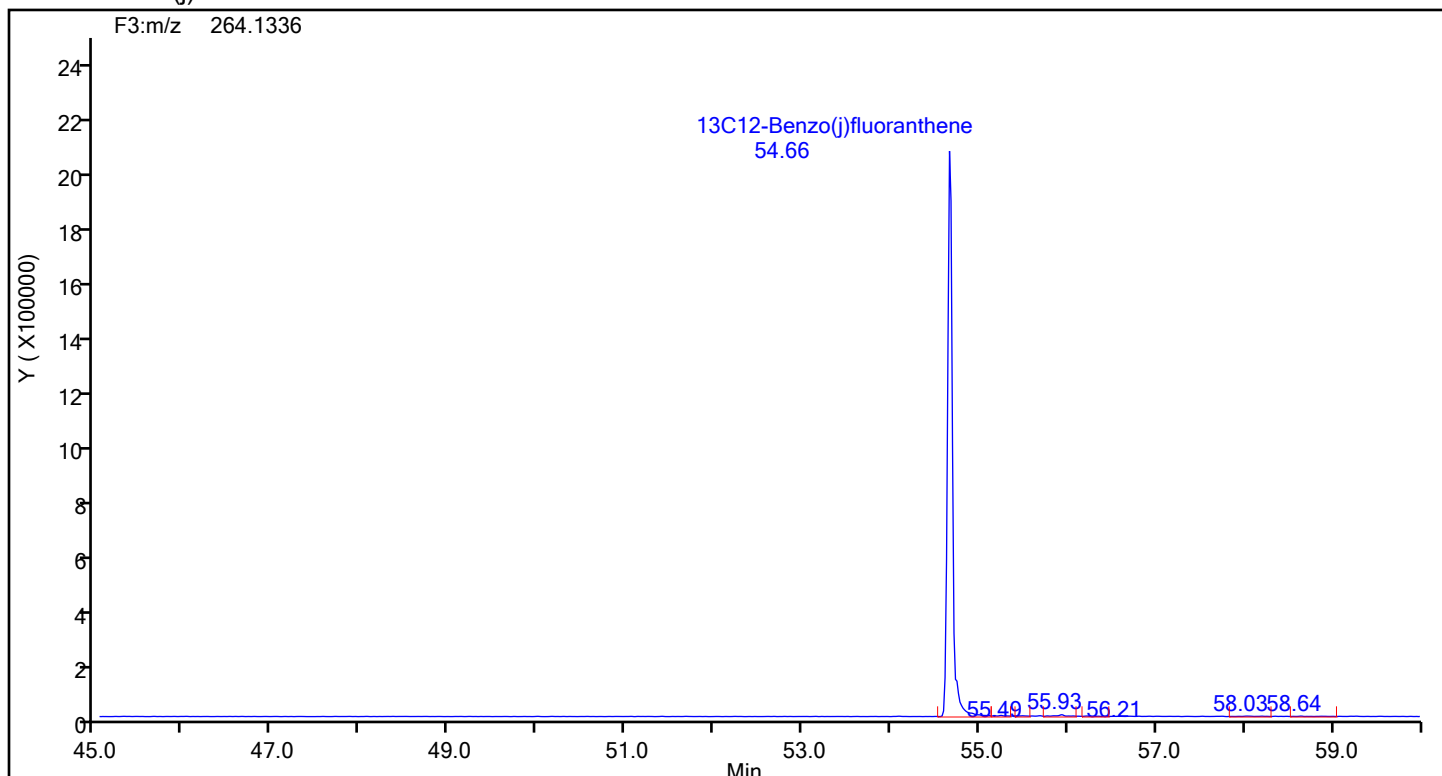
Benzo[b]fluoranthene Standards



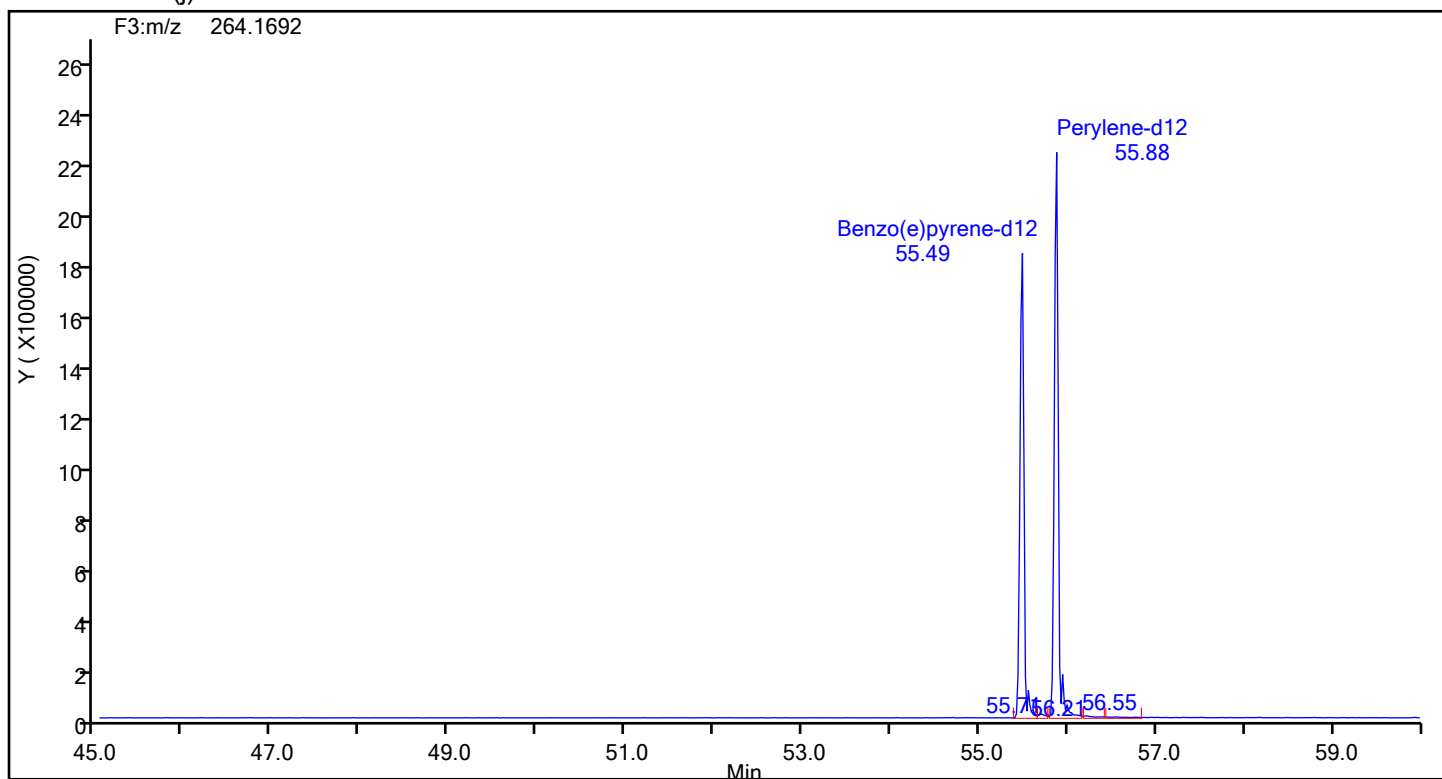
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Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



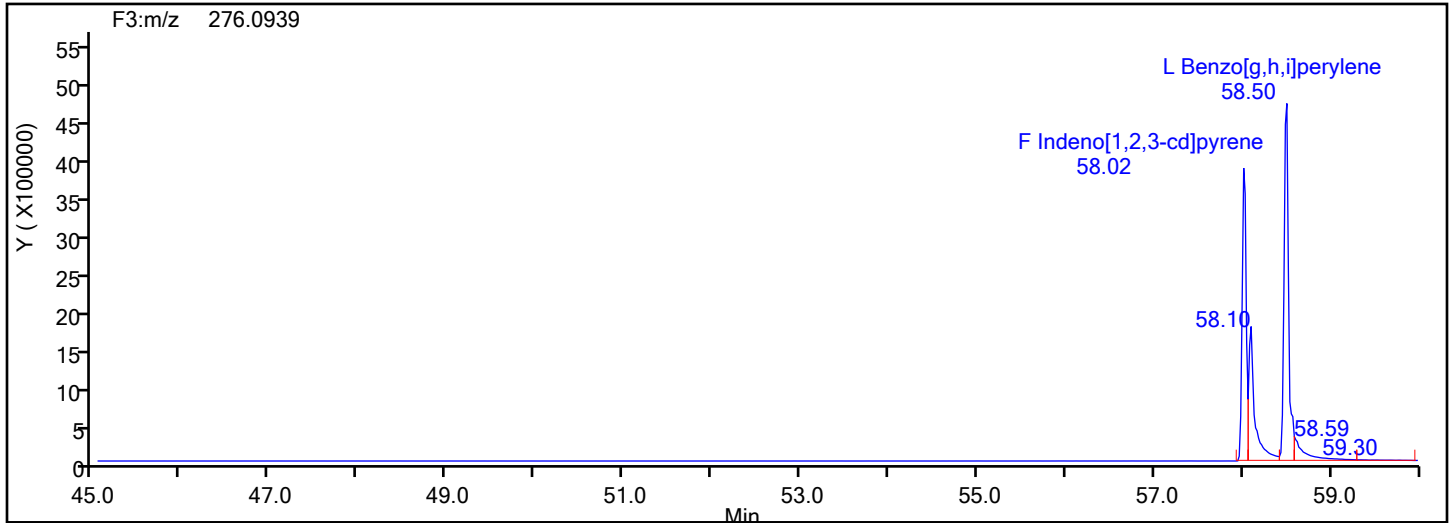
13C12-Benzo(j)fluoranthene Standards



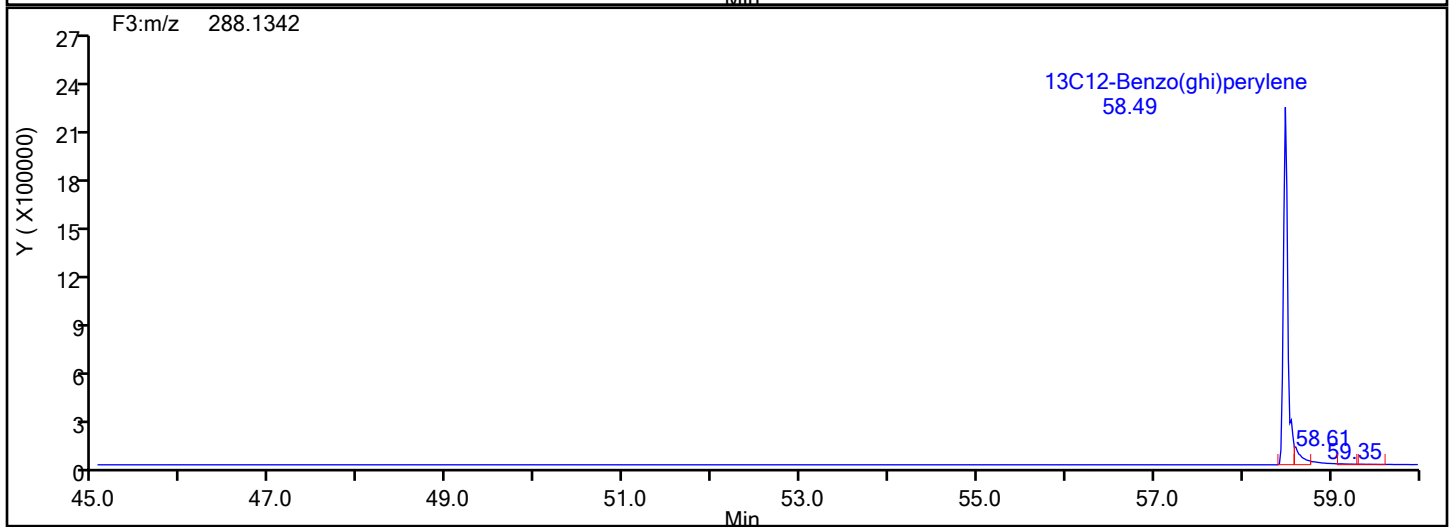
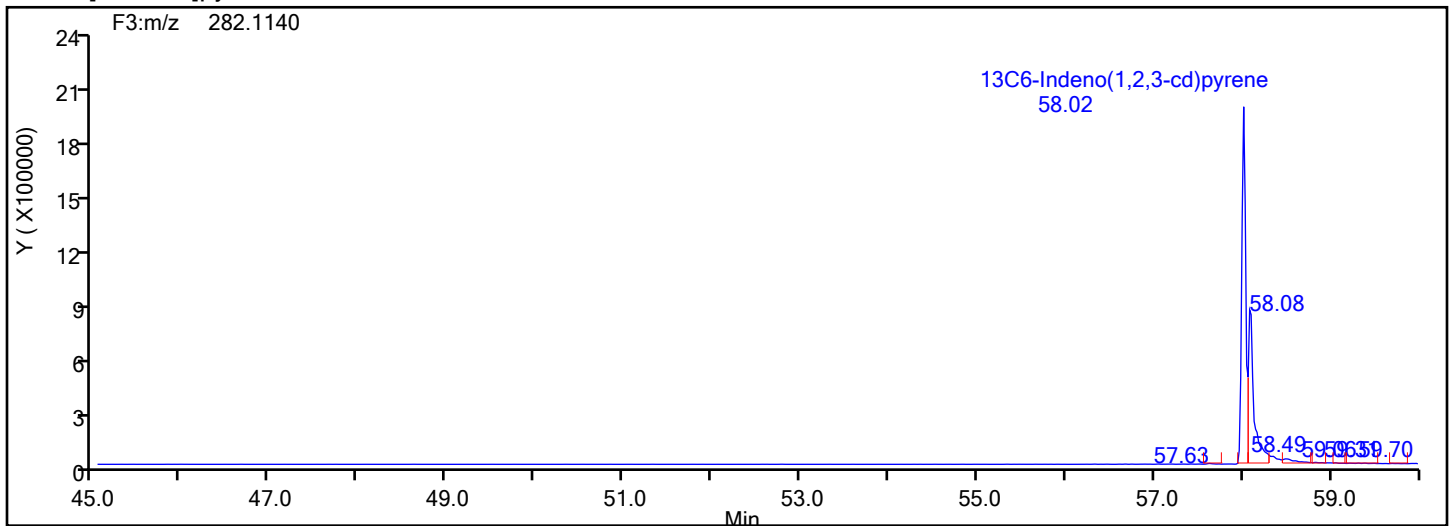
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

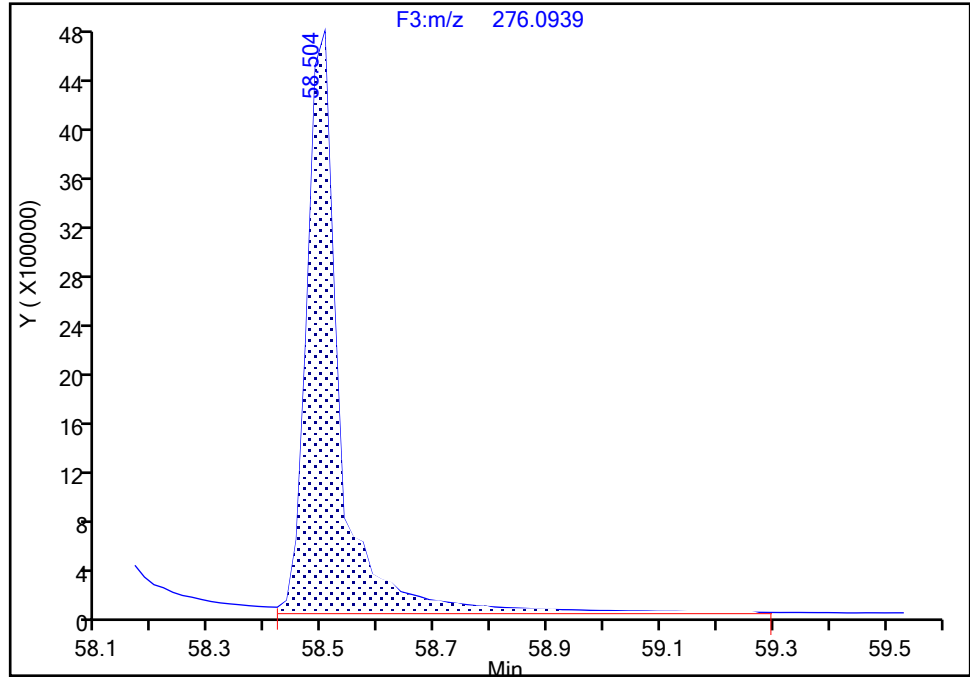
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Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

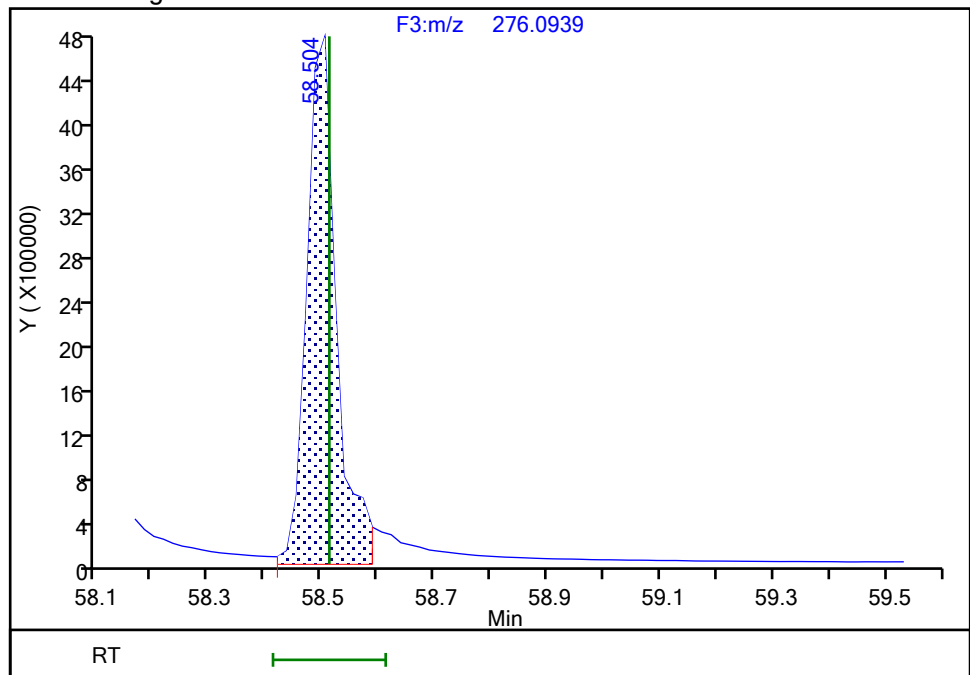
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Area: 19808797
Amount: 202.6337
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 17229589
Amount: 177.7182
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 19-Jun-2024 23:00:00

Instrument ID: D3PAH

Lims ID: IC L7

Client ID:

Operator ID: Xcalibur System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: EPA 23 PAH

Limit Group:

HR - HRPAAH ICAL

Column: Restek-5Sil MS 25um (0.25 mm)

Detector

F3(44.04 :59.98)

13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2

Signal: 1

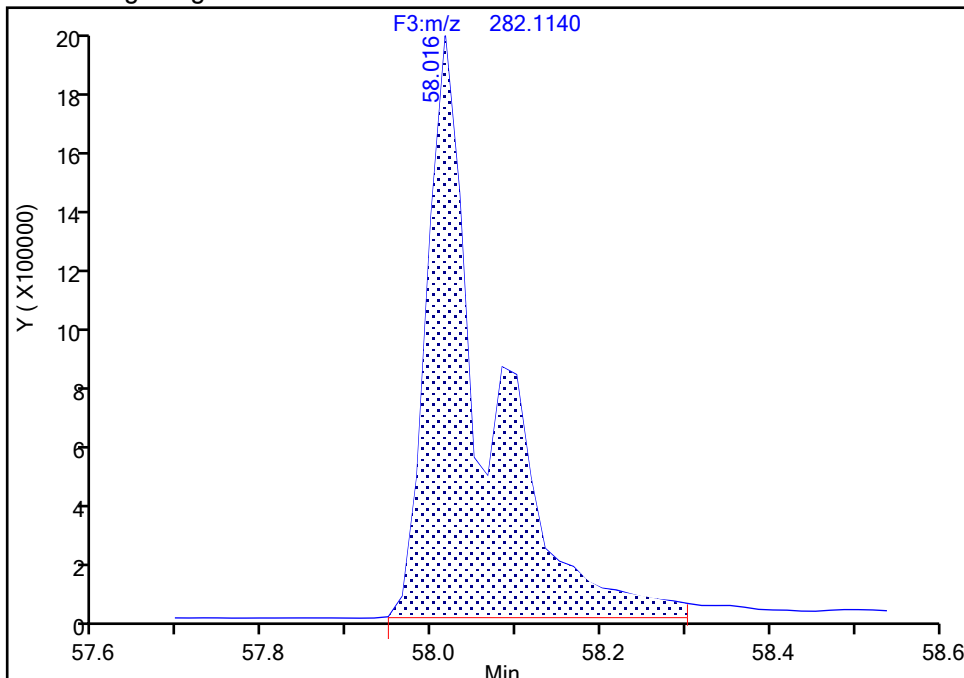
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Amount Units: pg/ul

Processing Integration Results



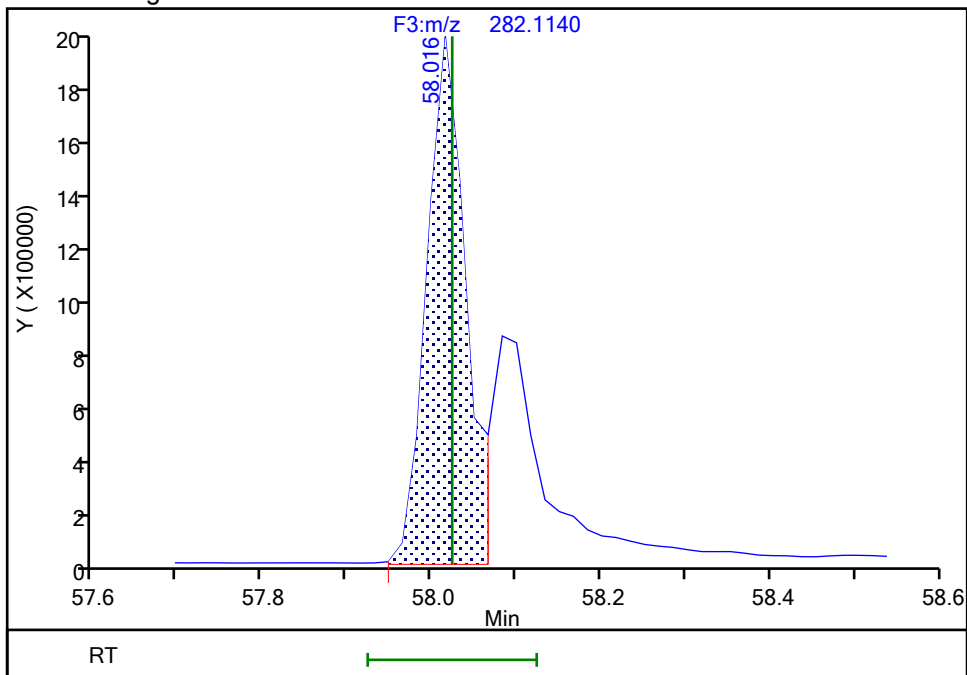
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Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

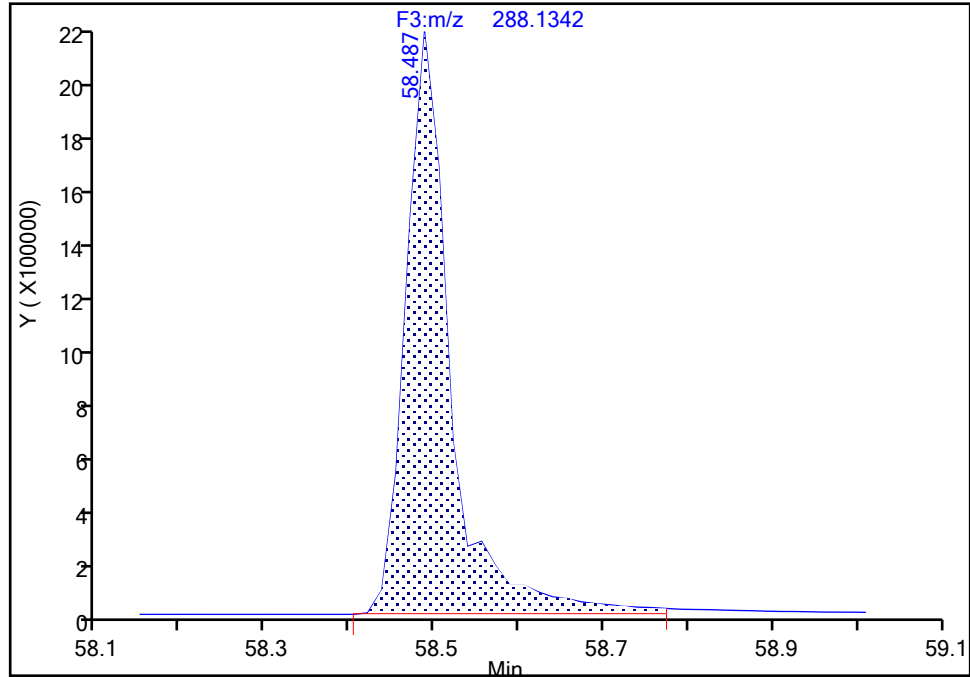
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Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

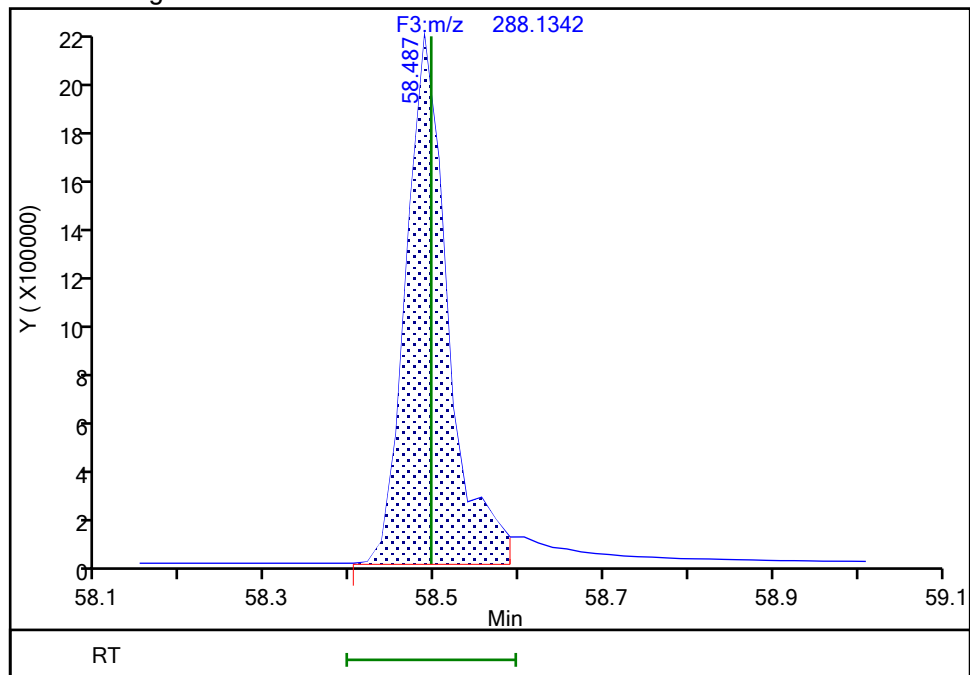
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Amount: 107.2367
Amount Units: pg/ul

Processing Integration Results



RT: 58.49
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Manual Integration Results



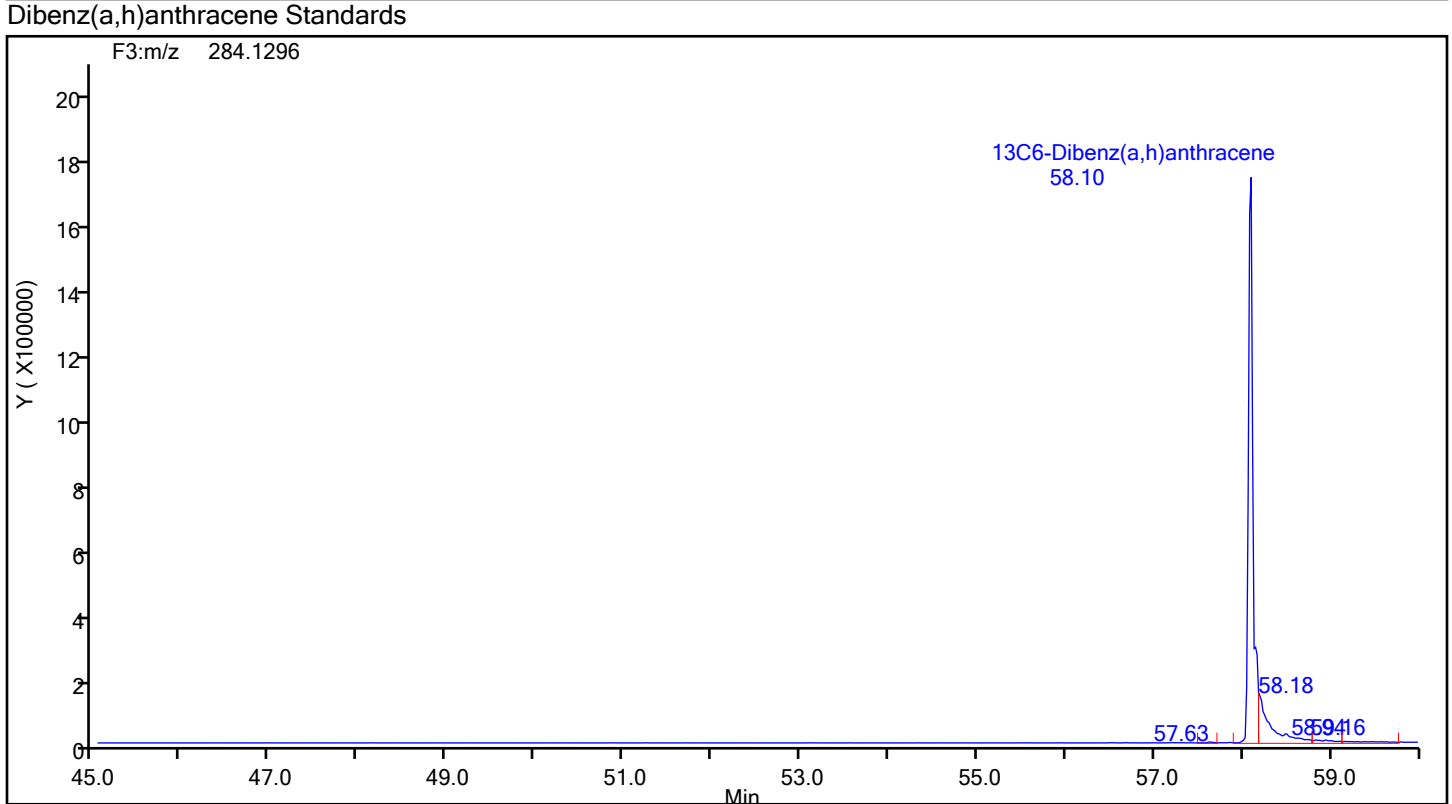
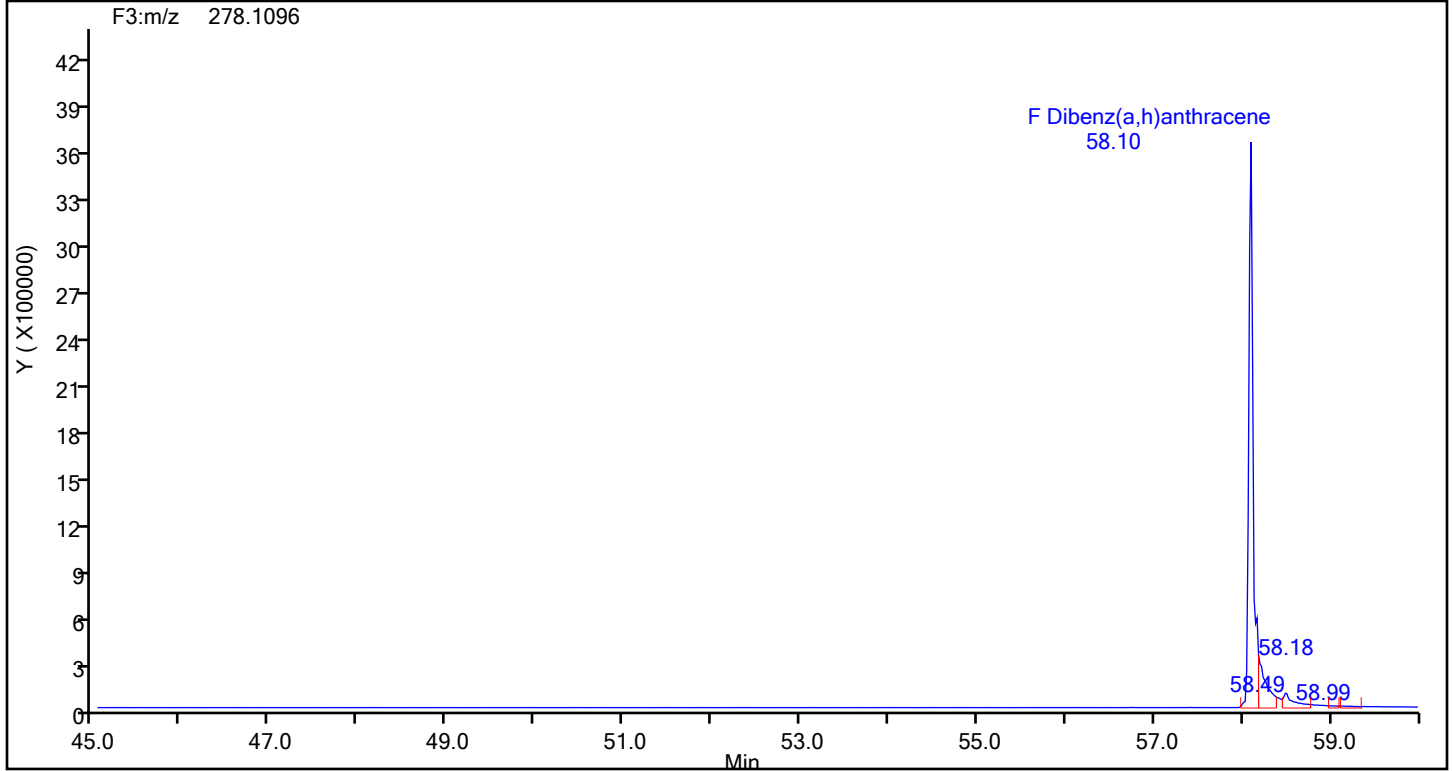
Reviewer: F9EE, 20-Jun-2024 09:38:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 7
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Eurofins Knoxville

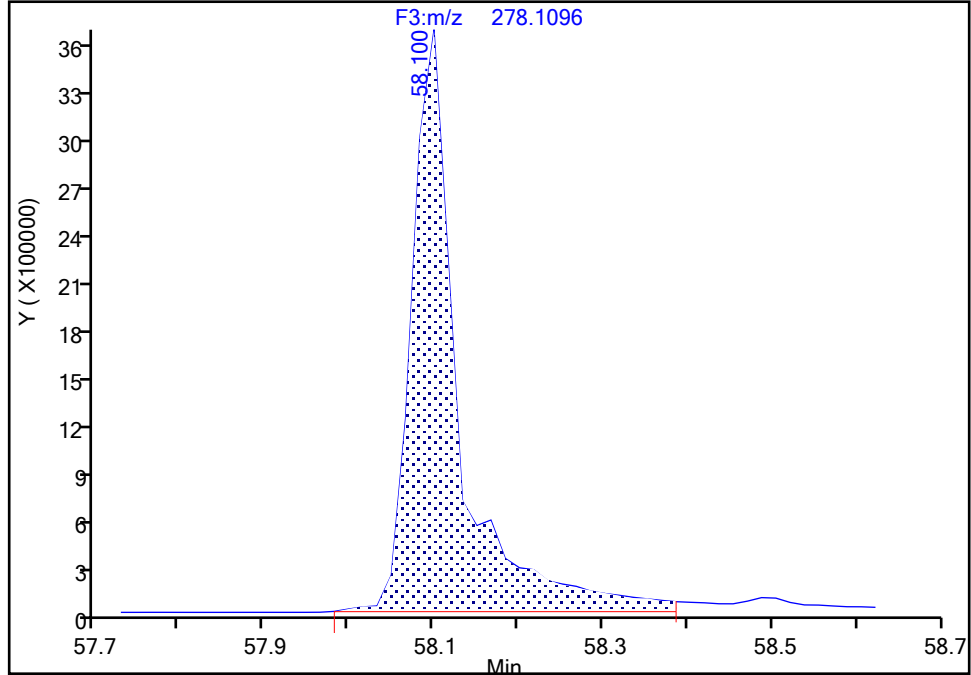
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Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

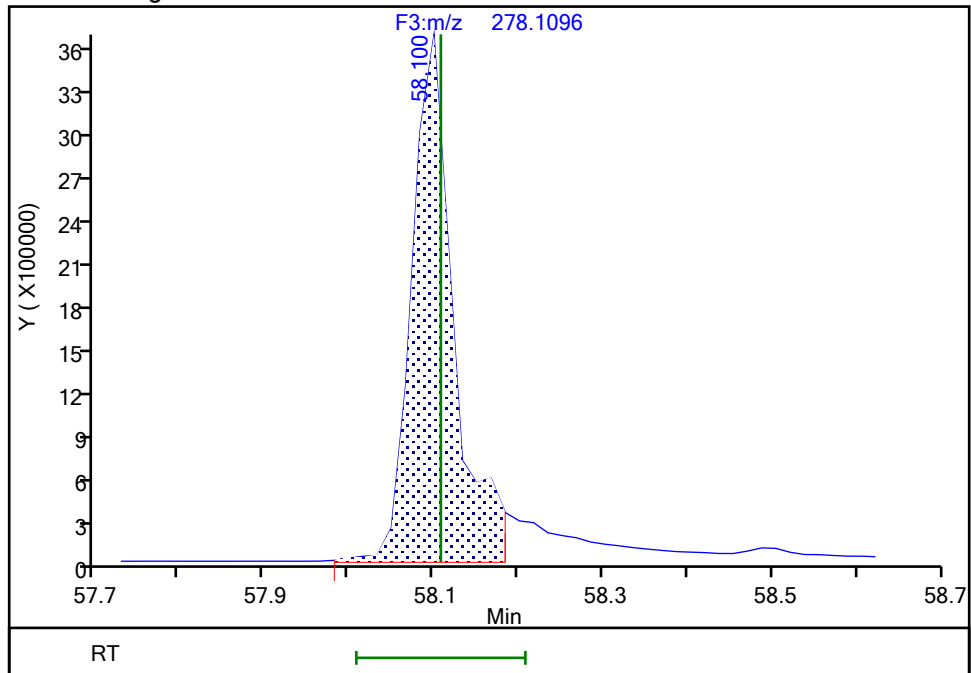
RT: 58.10
Area: 14258856
Amount: 204.9671
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 12538607
Amount: 181.3847
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

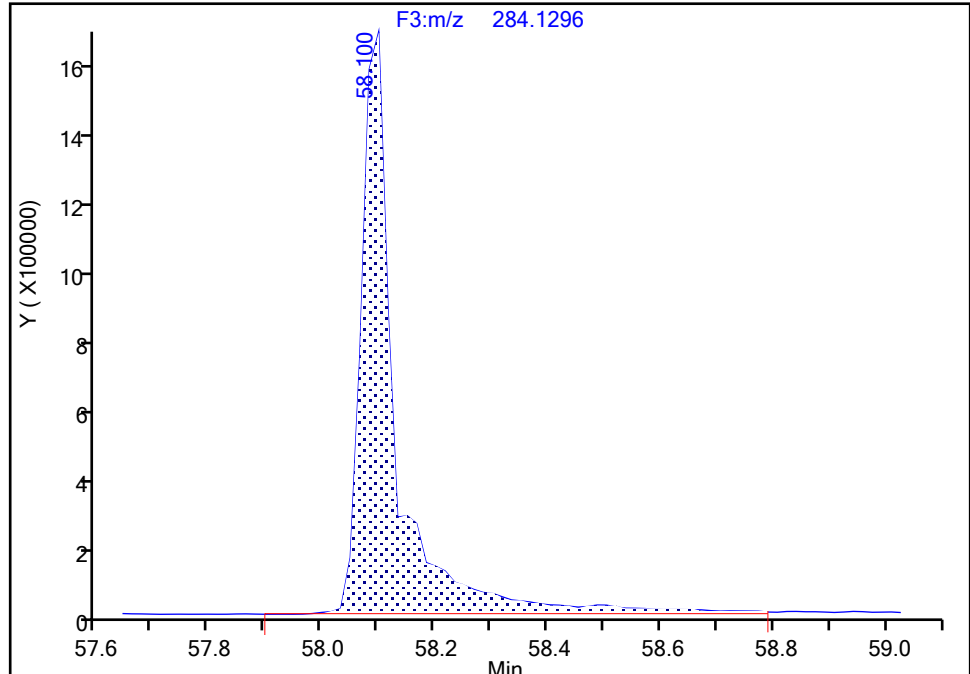
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH
Lims ID: IC L7
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

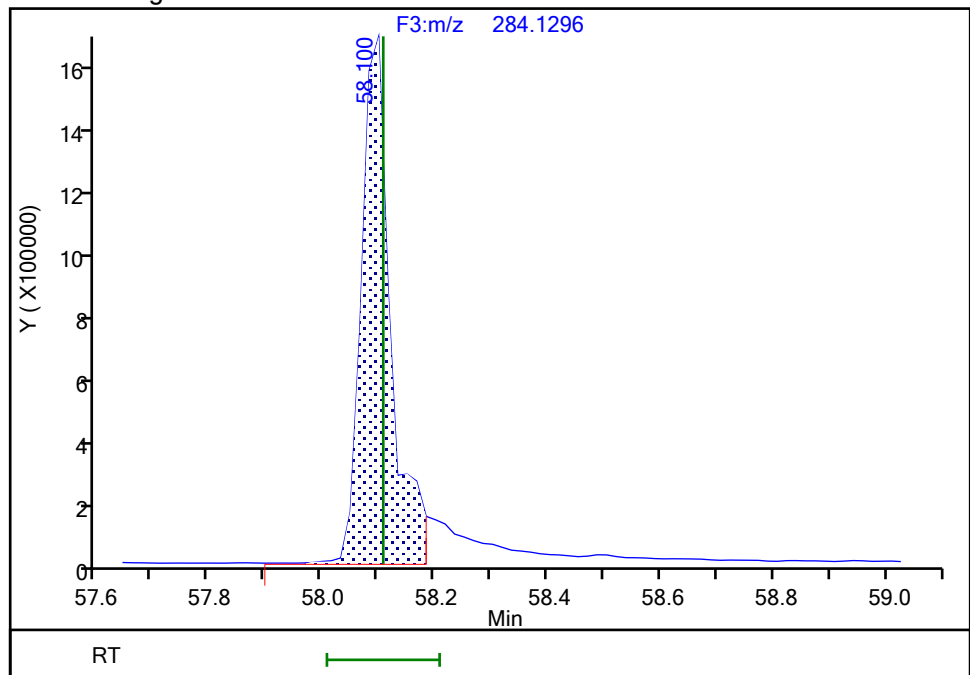
RT: 58.10
Area: 7350678
Amount: 113.6700
Amount Units: pg/ul

Processing Integration Results



RT: 58.10
Area: 6110020
Amount: 99.838282
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	13369772		3.3746	100.6	100.6	0.005893	0.005893	101	
Naphthalene	11:33	66534766		1.2893	386.0	386.0	0.0323	0.0323	96.50	
D 13C6-2-Methylnaphthalene	13:51	6439882		1.6031	102.0	102.0	0.000322	0.000322	102	
2-Methylnaphthalene	13:52	31544481		1.2786	383.1	383.1	0.0162	0.0162	95.78	
D 13C6-Acenaphthylene	16:45	6765535		1.6520	104.0	104.0	0.000535	0.000535	104	
Acenaphthylene	16:45	37234784		2.3661	389.6	389.6	0.0219	0.0219	97.40	
* Acenaphthene-d10	17:19	3938389		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	4039150		0.9792	104.7	104.7	0.001504	0.001504	105	
Acenaphthene	17:26	19367968		1.2697	377.7	377.7	0.0244	0.0244	94.42	
D 13C6-Fluorene	19:44	3801144		0.8898	108.5	108.5	0.000579	0.000579	108	
Fluorene	19:44	18232964		1.2532	382.8	382.8	0.0243	0.0243	95.69	
D 13C6-Phenanthrene	25:07	5572957		0.5724	104.4	104.4	0.004506	0.004506	104	
Phenanthrene	25:07	23294554		1.1044	378.5	378.5	0.0285	0.0285	94.62	
\$ Anthracin-d10	25:20	4116582		0.4257	103.7	103.7	0.001346	0.001346	104	
D 13C6-Anthracene	25:27	4474470		0.4523	106.1	106.1	0.005702	0.005702	106	
Anthracene	25:27	22947314		1.3586	377.5	377.5	0.0298	0.0298	94.37	
D 13C6-Fluoranthrene	33:52	11997910		1.1994	107.3	107.3	0.0154	0.0154	107	
Fluoranthrene	33:53	53709863		1.1513	388.8	388.8	0.0151	0.0151	97.21	
* Pyrene-d10	35:25	9327125		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	13356986		1.3512	106.0	106.0	0.0107	0.0107	106	
Pyrene	35:34	54662936		1.0652	384.2	384.2	0.0155	0.0155	96.05	
\$ 13C6-Benzo(c)fluorene	39:17	4761886		0.5136	99.4	99.4	0.002790	0.002790	99.41	
D 13C6-Benzo(a)anthracene	46:07	10694535		1.5189	102.0	102.0	0.0121	0.0121	102	
Benzo[a]anthracene	46:07	39547814		0.9739	379.7	379.7	0.0317	0.0317	94.93	
D 13C6-Chrysene	46:23	11695295		1.6287	104.0	104.0	0.0113	0.0113	104	
Chrysene	46:23	43785996		0.9815	381.5	381.5	0.0300	0.0300	95.37	
D 13C6-Benzo(b)fluoranthene	54:39	10435051		1.4621	103.4	103.4	0.000791	0.000791	103	
Benzo[b]fluoranthene	54:39	45422181		1.1249	387.0	387.0	0.005821	0.005821	96.74	
\$ 13C12-Benzo(j)fluoranthene	54:41	9891565		1.3558	105.7	105.7	0.0120	0.0120	106	
D 13C6-Benzo(k)fluoranthene	54:46	12917530		1.7507	106.9	106.9	0.000661	0.000661	107	
Benzo[k]fluoranthene	54:46	55519685		1.1271	381.3	381.3	0.005000	0.005000	95.33	
* Benzo(e)pyrene-d12	55:30	6903874		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	11723054		1.6368	103.7	103.7	0.0104	0.0104	104	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	45463447		1.0013	387.3	387.3	0.004696	0.004696	96.83	
Benzo[a]pyrene	55:43	48994654		1.1130	390.7	390.7	0.004751	0.004751	97.67	
D 13C4-Benzo(a)pyrene	55:43	11267474		1.5508	105.2	105.2	0.0109	0.0109	105	
D Perylene-d12	55:53	8439141		1.1917	102.6	102.6	0.0125	0.0125	103	
Perylene	55:57	50605936		1.4307	419.1	419.1	0.004749	0.004749	105	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	7511958		1.0218	106.5	106.5	0.007788	0.007788	106	
Indeno[1,2,3-cd]pyrene	58:02	31522628		1.1249	373.0	373.0	0.006078	0.006078	93.26	
D 13C6-Dibenz(a,h)anthracene	58:06	7695778		1.0553	105.6	105.6	0.004384	0.004384	106	M
Dibenz(a,h)anthracene	58:06	33420949		1.1314	383.8	383.8	0.005059	0.005059	95.96	M
D 13C12-Benzo(ghi)perylene	58:29	9250572		1.2749	105.1	105.1	0.002903	0.002903	105	M
Benzo[g,h,i]perylene	58:30	44647127		1.2838	376.0	376.0	0.004798	0.004798	93.99	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS6_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-008
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	13369772	4560382	108	270	42226		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	66534766	23571526	761	1902	30974		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	6439882	3011483	3	7	1003828		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	31544481	14565701	250	625	58263		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.967	6765535	2390392	5	12	478078		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	37234784	13823003	297	742	46542		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3938389	1357794	4	10	339449		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	4039150	1433544	8	20	179193		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	19367968	7000107	178	445	39326		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.140	3801144	1141649	3	7	380550		
Fluorene											
166.0783	19:44	19:45	-1	1.000	18232964	5731294	139	347	41232		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	5572957	1302616	18	45	72368		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	23294554	5710557	164	410	34820		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	4116582	938915	4	10	234729		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	4474470	1011656	18	45	56203		
Anthracene											
178.0783	25:27	25:28	-1	1.000	22947314	5311986	164	410	32390		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	11997910	2409519	129	322	18678		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	53709863	11141942	168	420	66321		
Pyrene-d10											
212.1404	35:25	35:27	-2		9327125	1744548	56	140	31153		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	13356986	2550188	101	252	25249		
Pyrene											
202.0783	35:34	35:35	-1	1.000	54662936	10863334	168	420	64663		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4761886	868339	10	25	86834		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.302	10694535	1918789	159	397	12068		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	39547814	7546280	237	592	31841		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	11695295	2008932	159	397	12635		
Chrysene											
228.0939	46:23	46:25	-2	1.000	43785996	7992089	237	592	33722		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:40	-1	0.985	10435051	2825469	10	25	282547		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	45422181	13034981	74	185	176148		
13C12-Benzo(j)fluoranthene											
264.1336	54:41	54:42	-1	0.985	9891565	2522237	141	352	17888		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	12917530	3282519	10	25	328252		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	55519685	14325989	74	185	193595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		6903874	2161428	129	322	16755		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	-1	1.002	11723054	3934689	147	367	26767		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	45463447	15904191	74	185	214922		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	48994654	15258523	74	185	206196		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	11267474	3498798	147	367	23801		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	8439141	2723157	129	322	21110		
Perylene											
252.0939	55:57	55:58	-1	1.001	50605936	17778838	74	185	240255		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	7511958	2369138	69	172	34335		
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	31522628	10138502	65	162	155977		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	7695778	2218739	40	100	55468		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	33420949	9833780	51	127	192819		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	9250572	2630111	32	80	82191		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	44647127	13129350	65	162	201990		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS6_00002

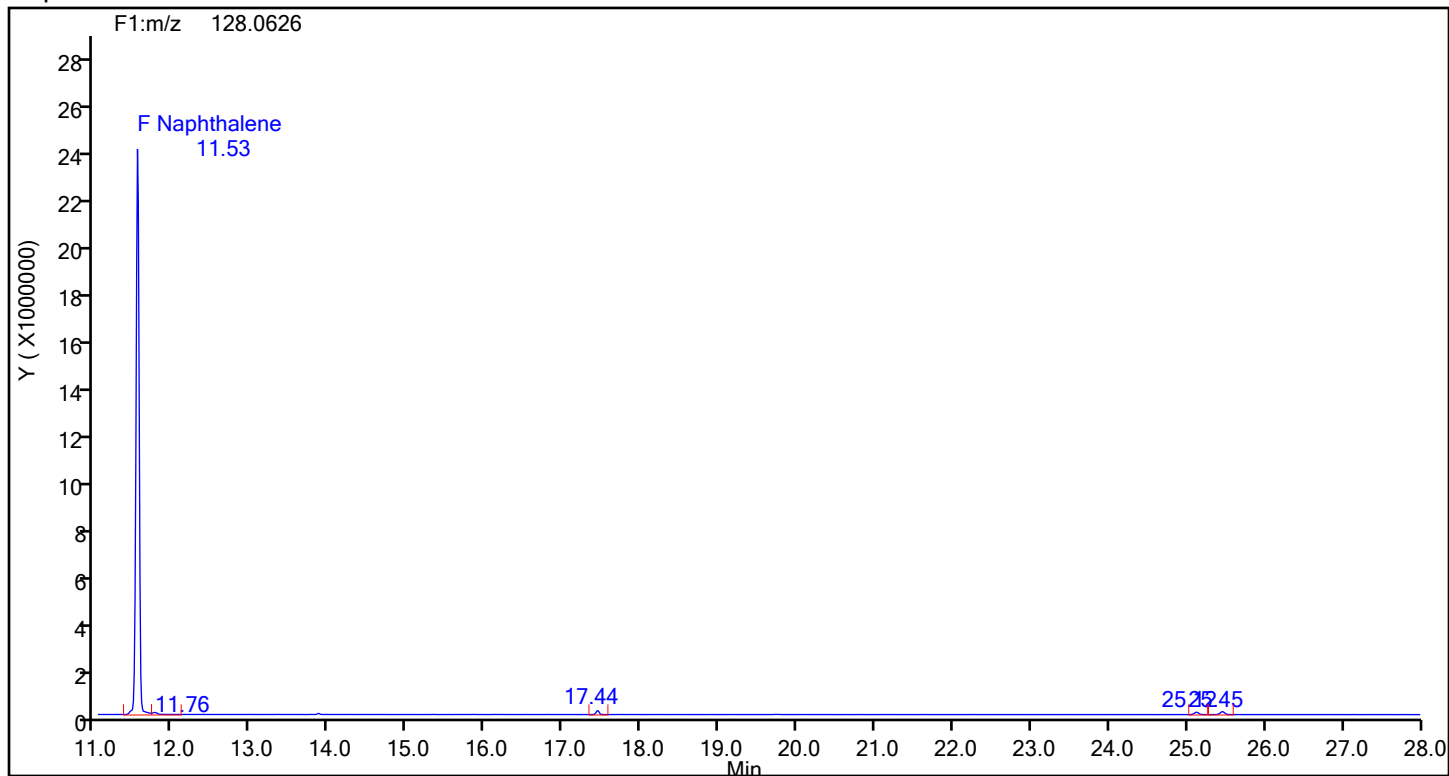
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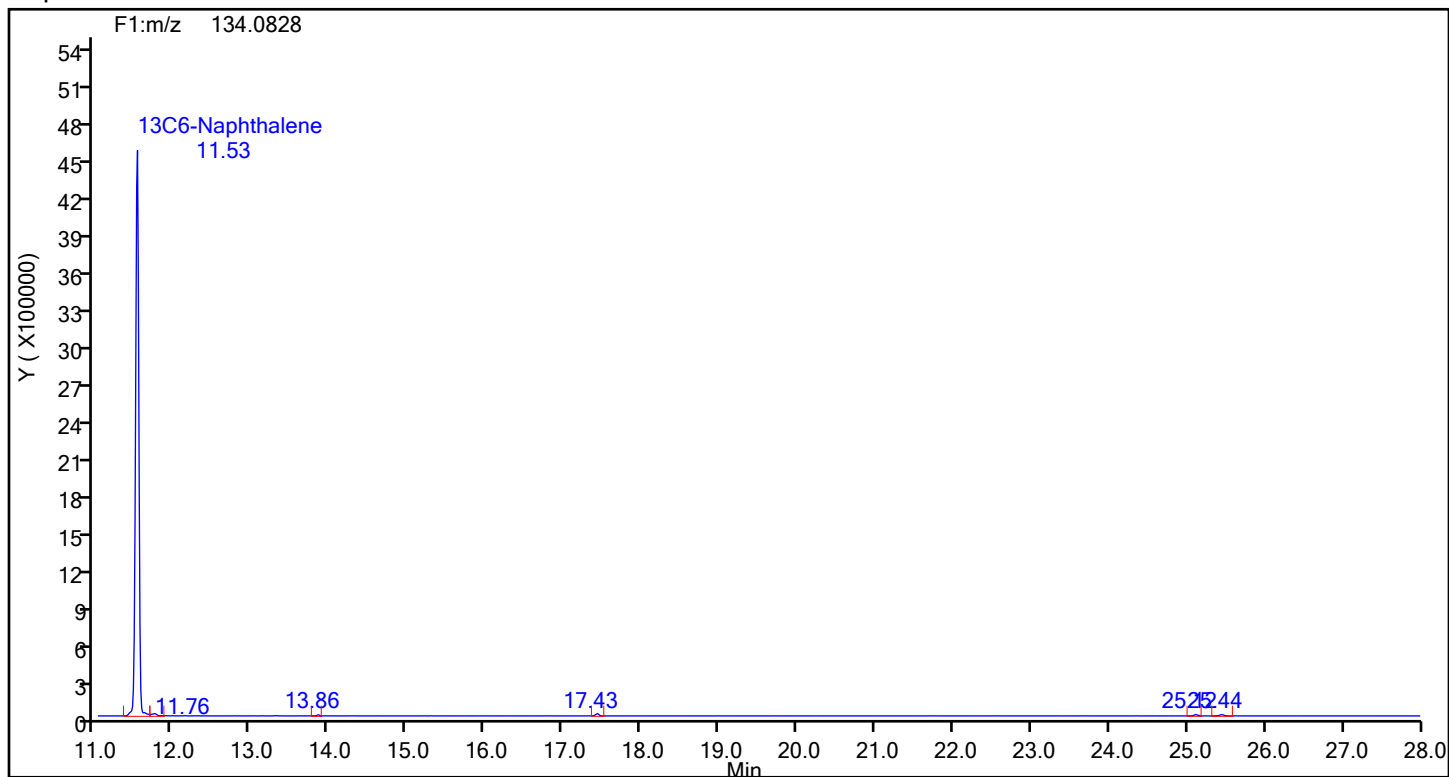
Eurofins Knoxville

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Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



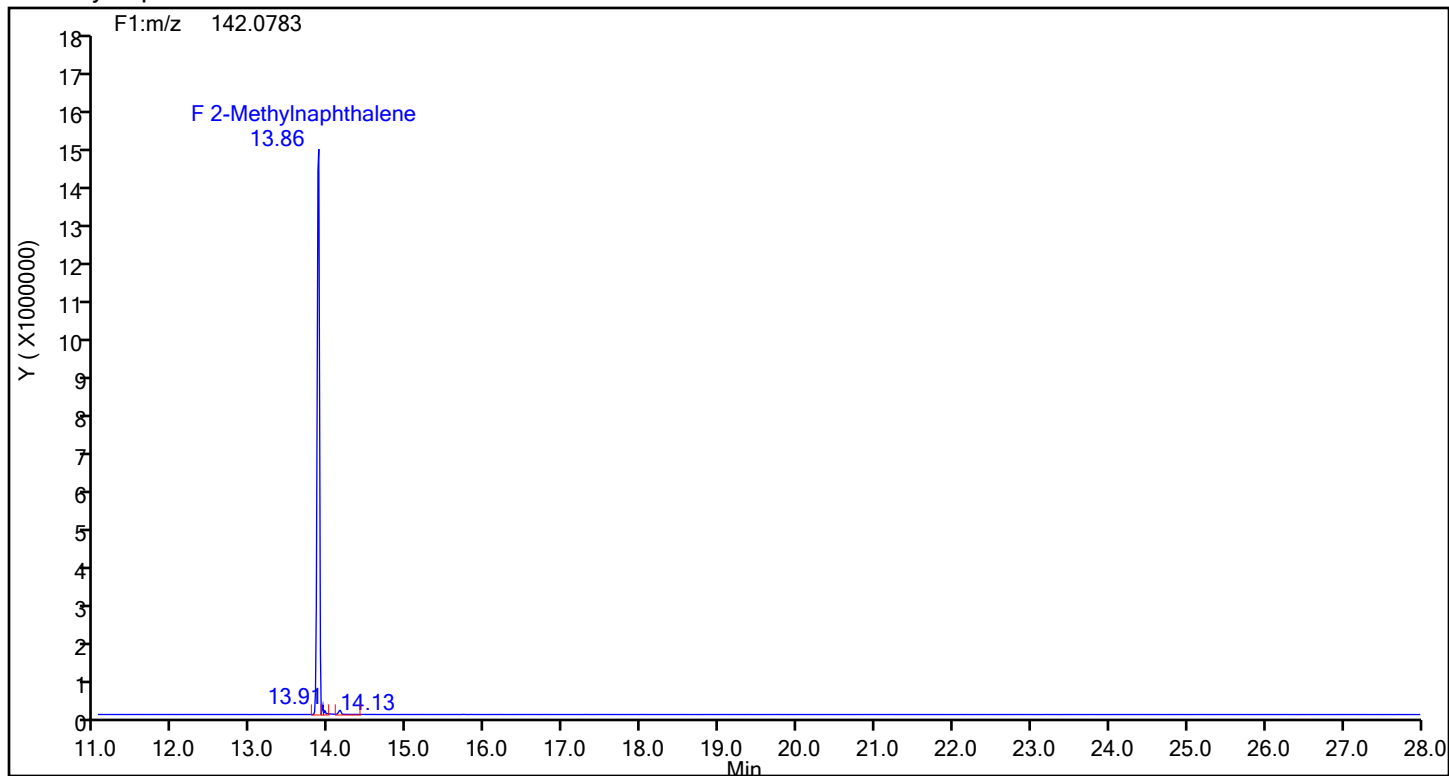
Naphthalene Standards



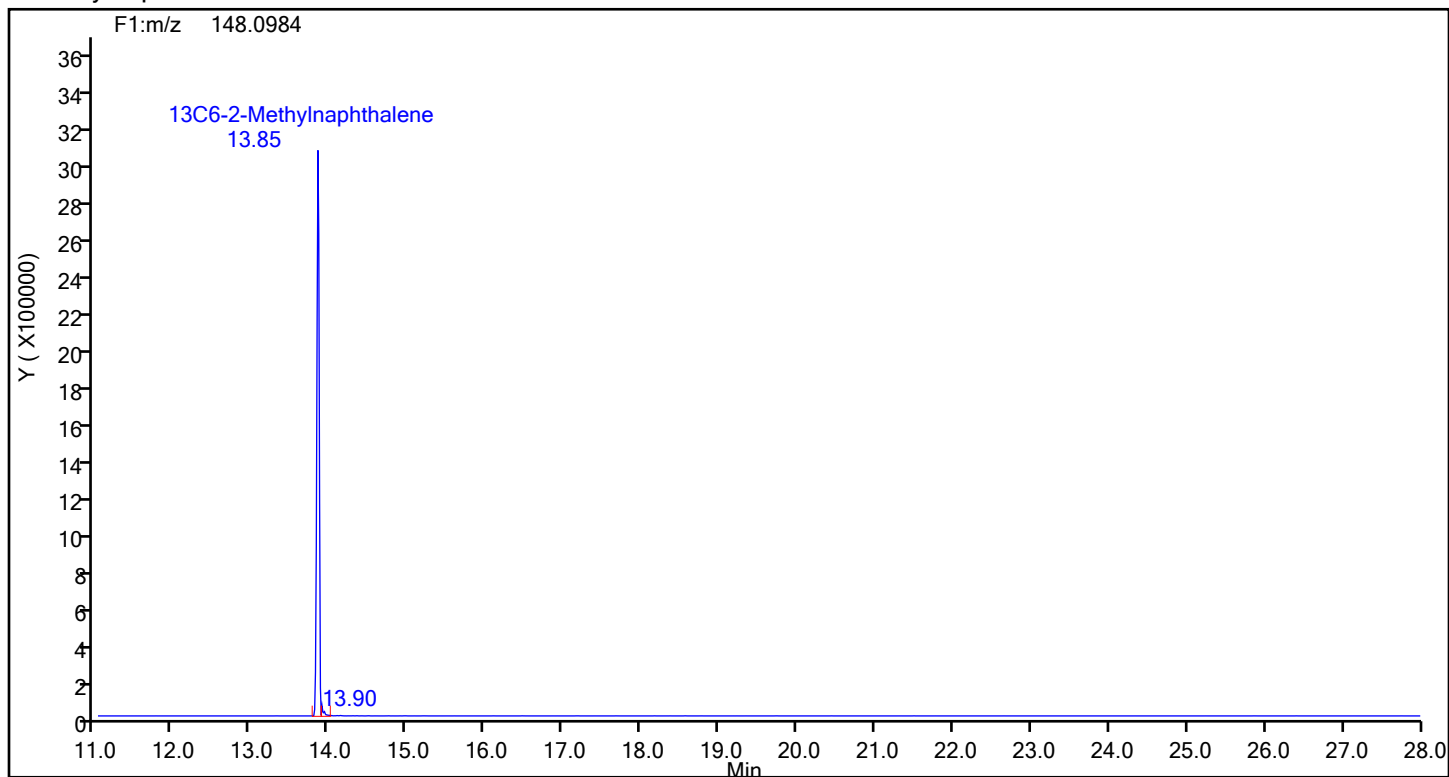
Eurofins Knoxville

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Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



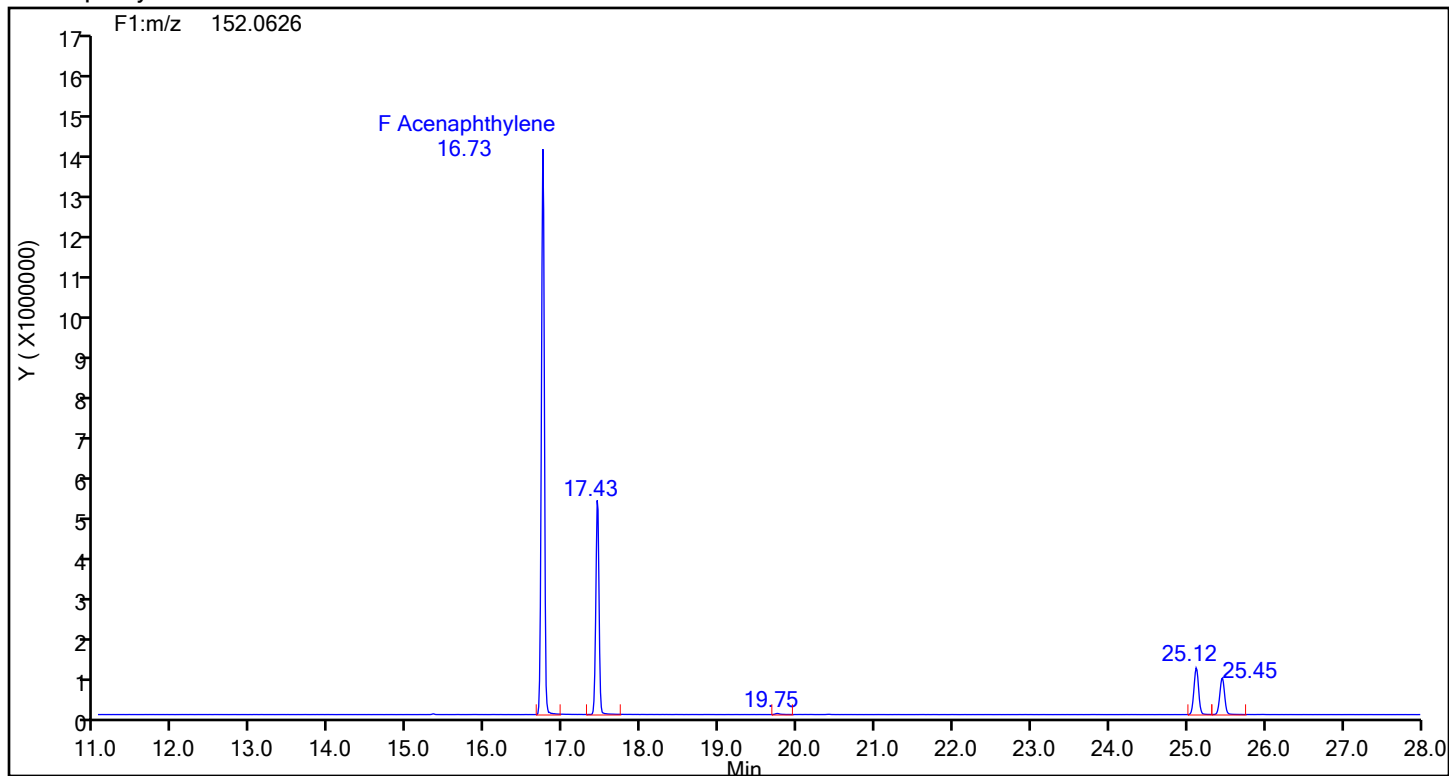
2-Methylnaphthalene Standards



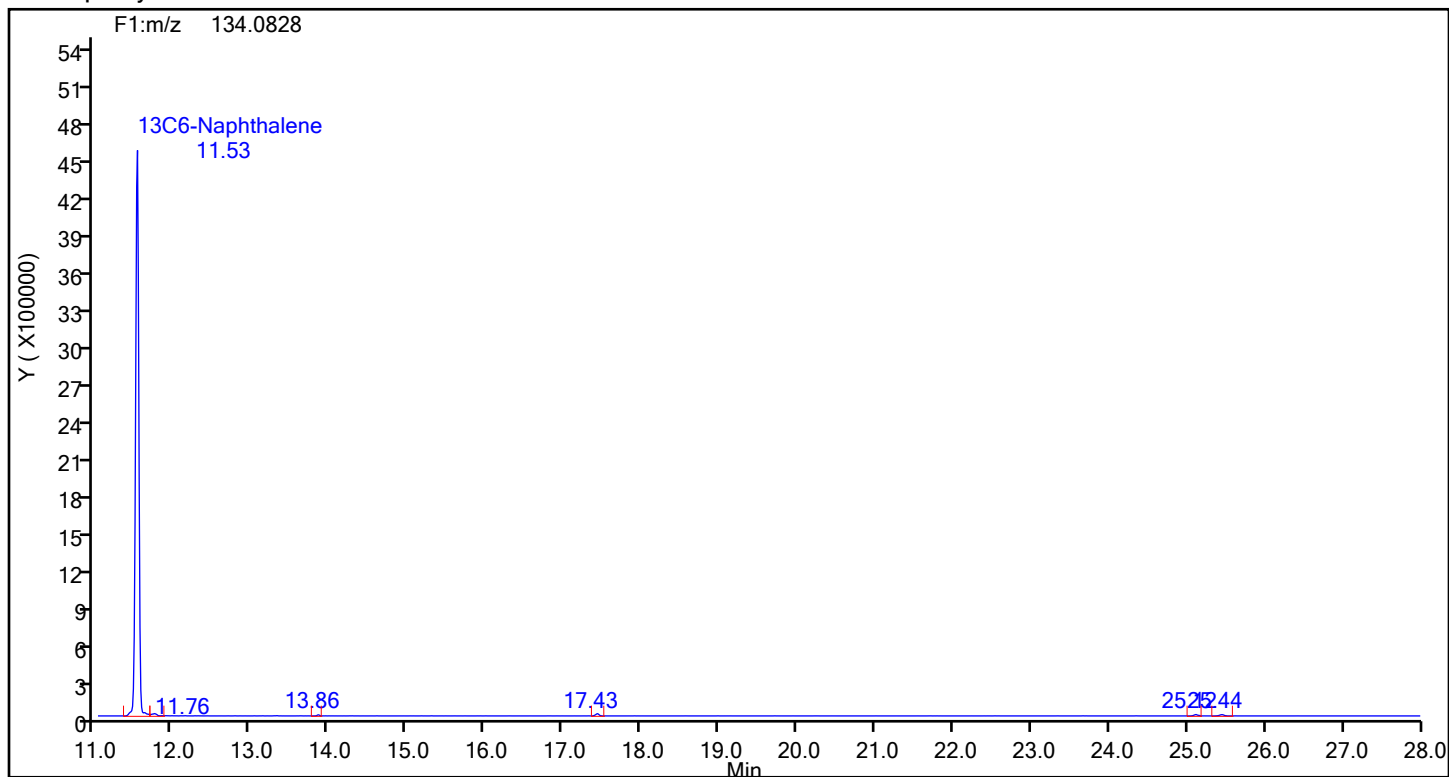
Eurofins Knoxville

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Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

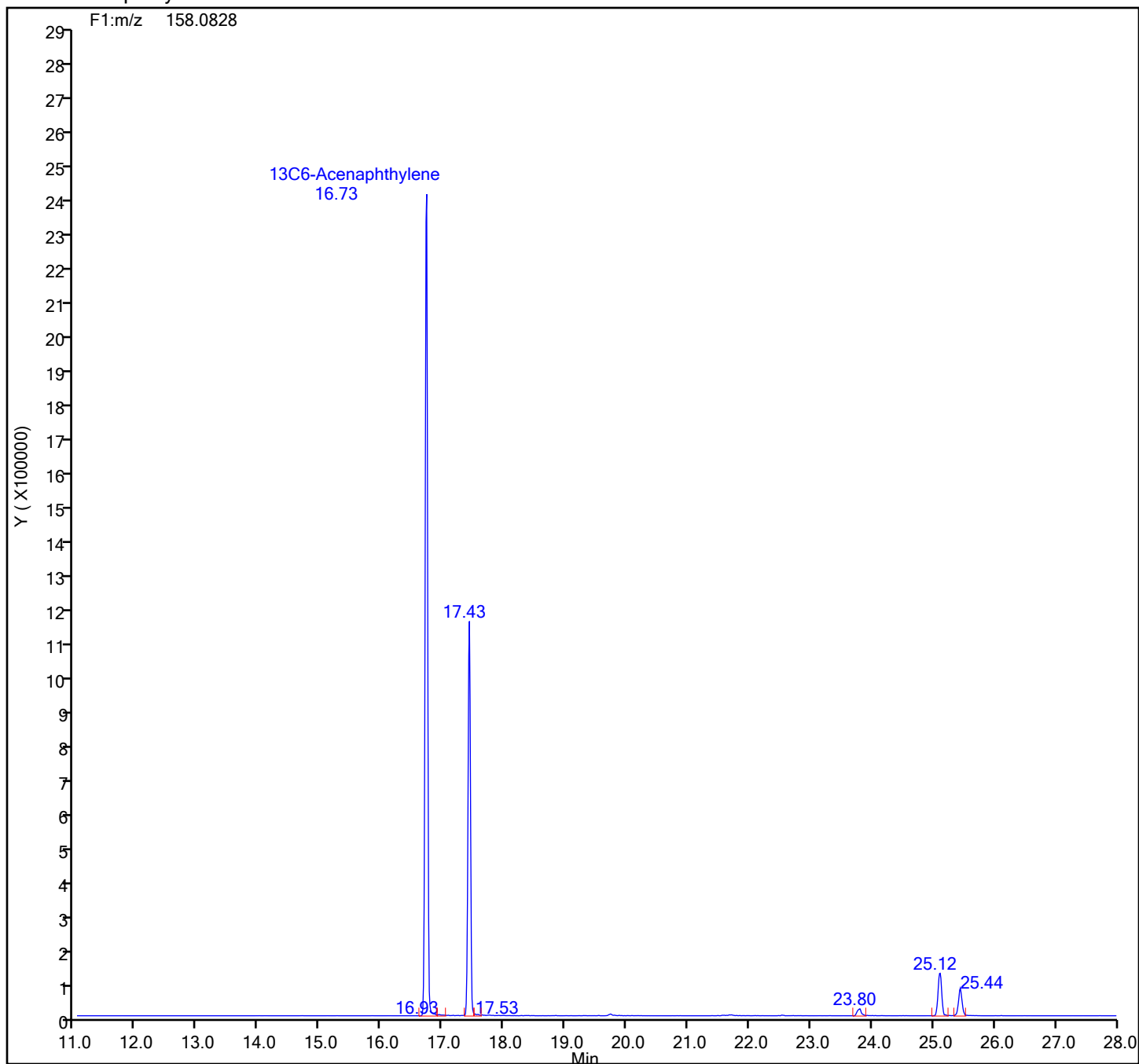


Acenaphthylene Standards



Eurofins Knoxville

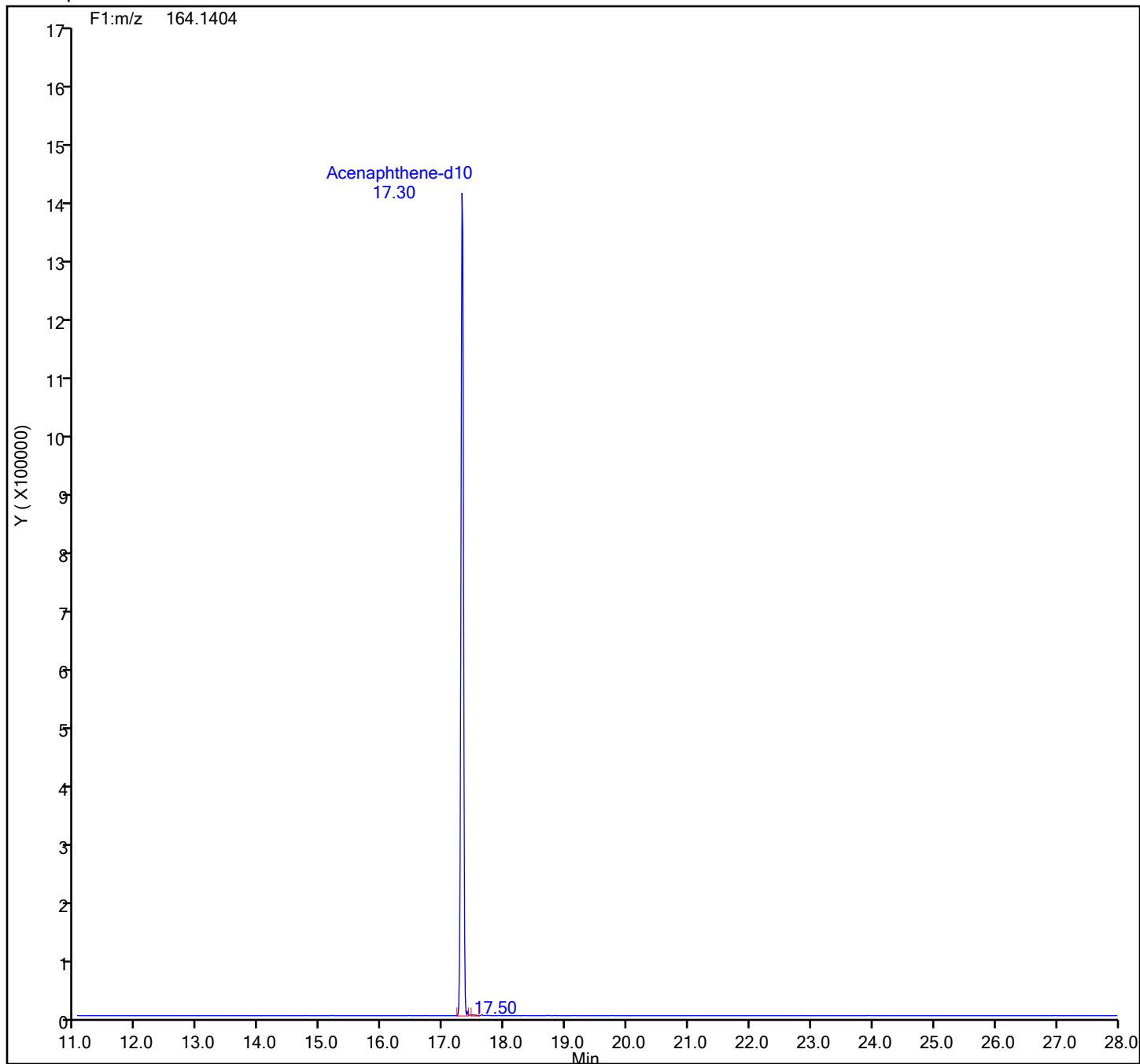
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

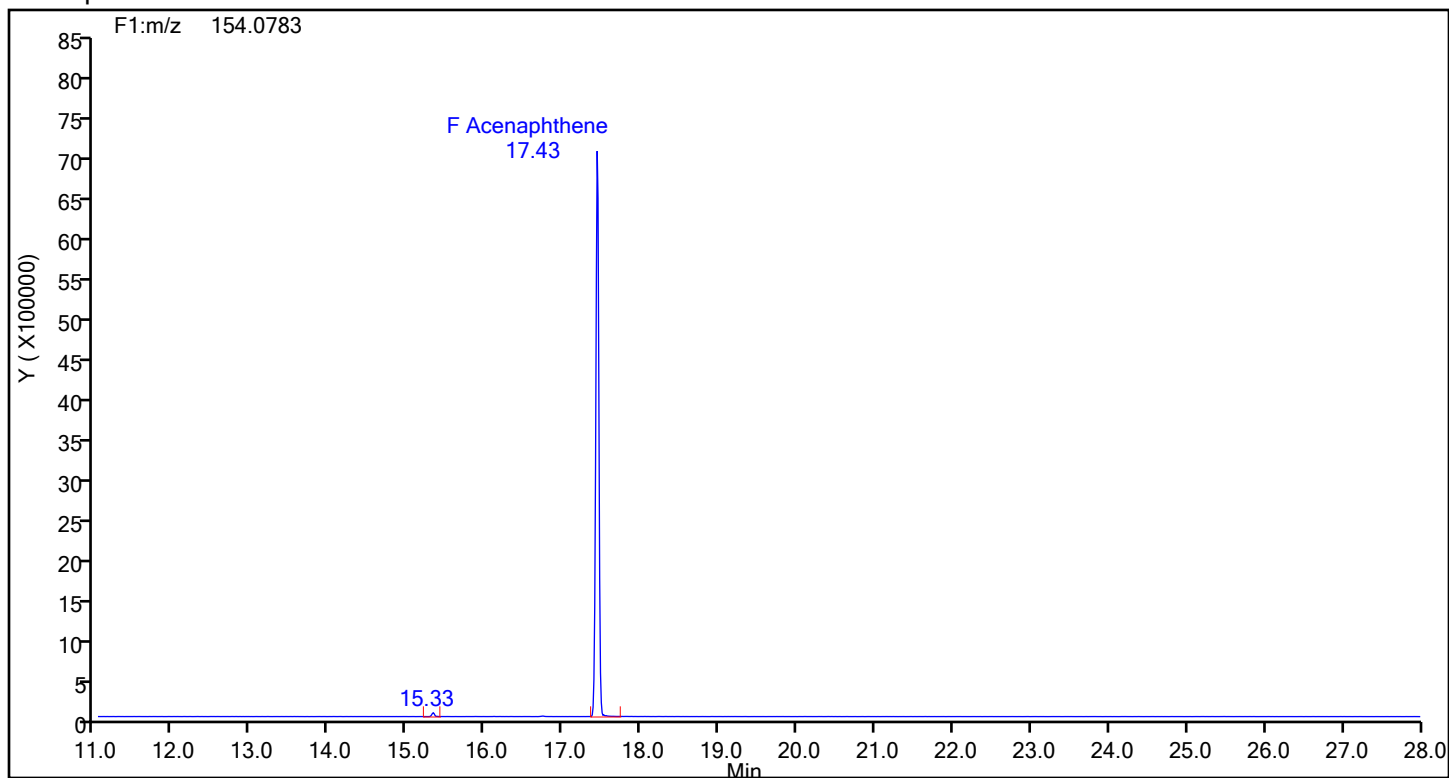
Acenaphthene-d10 Standards



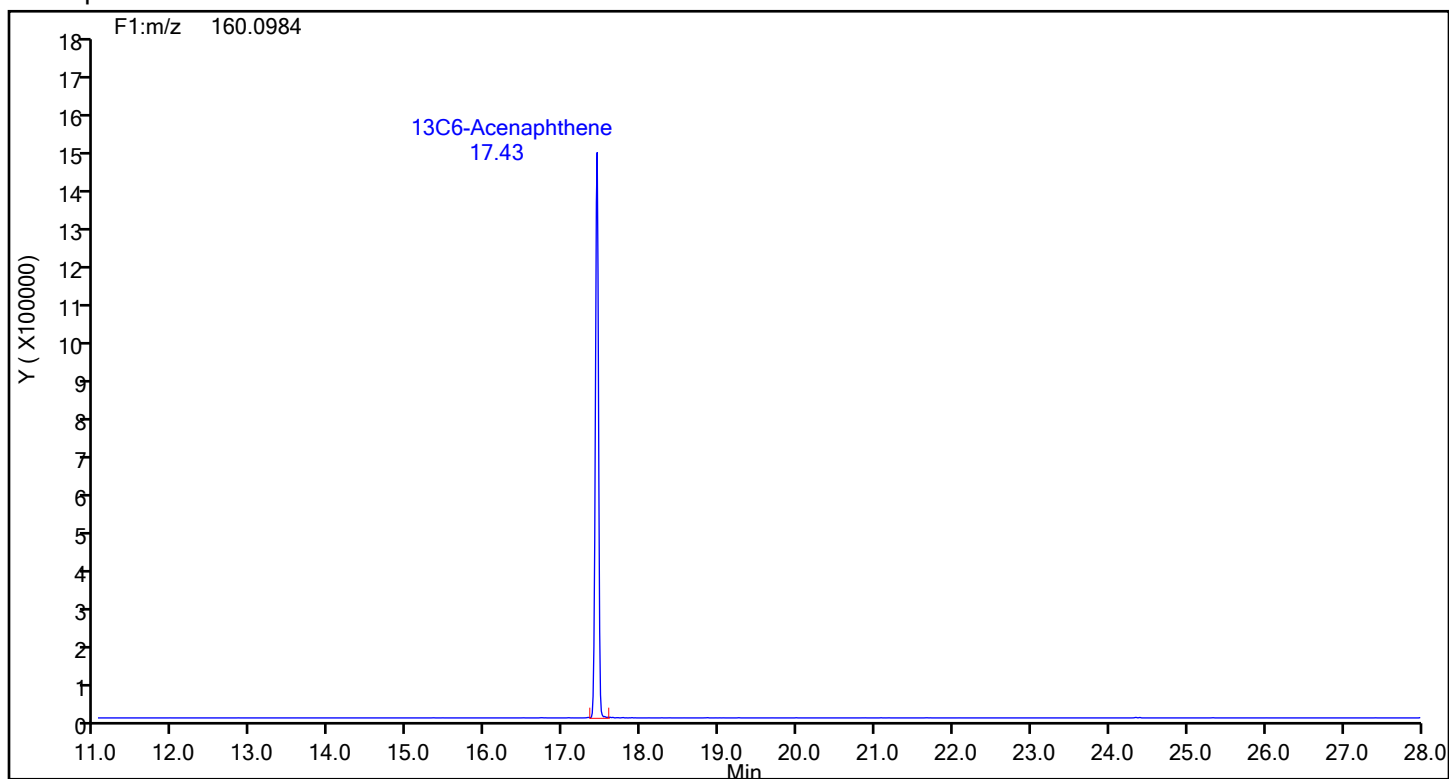
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



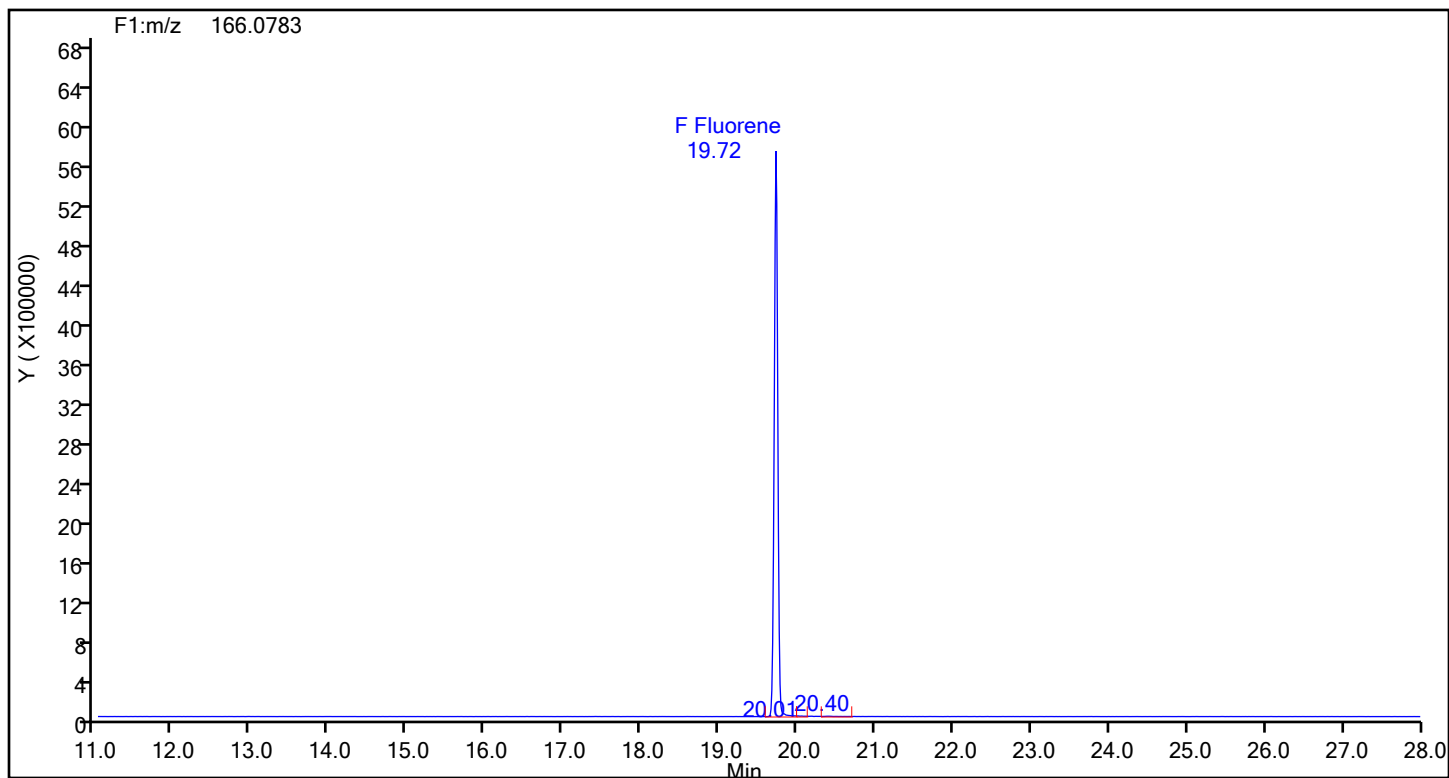
Acenaphthene Standards



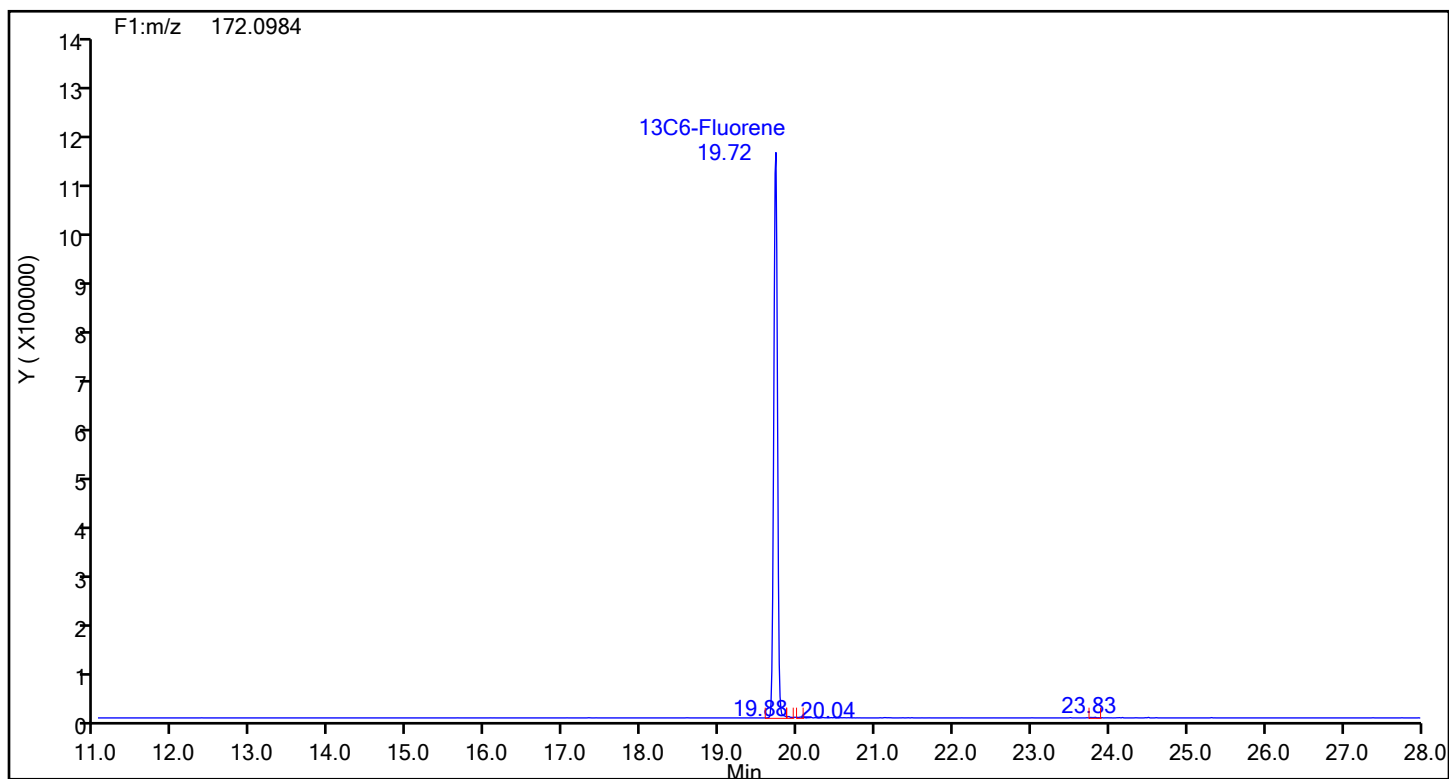
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

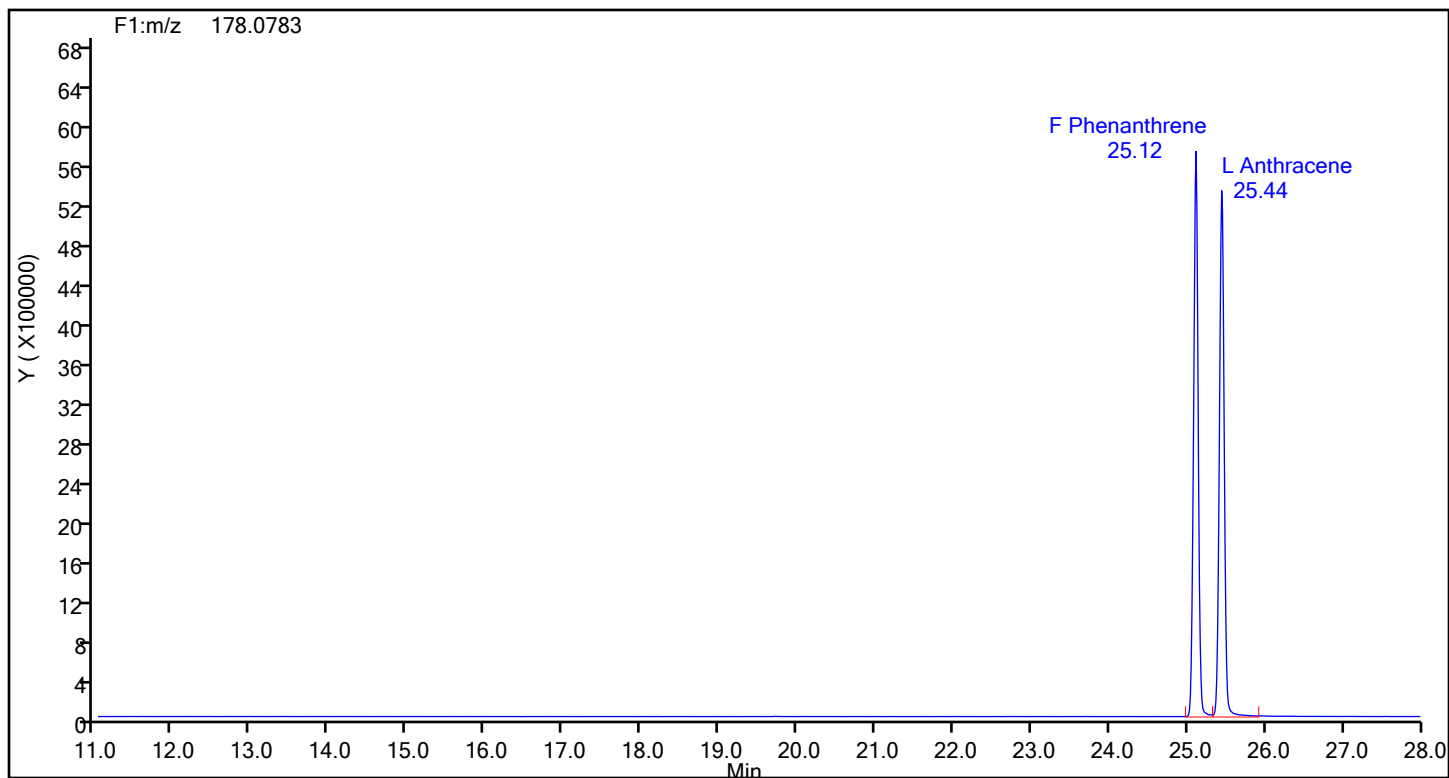


Fluorene Standards

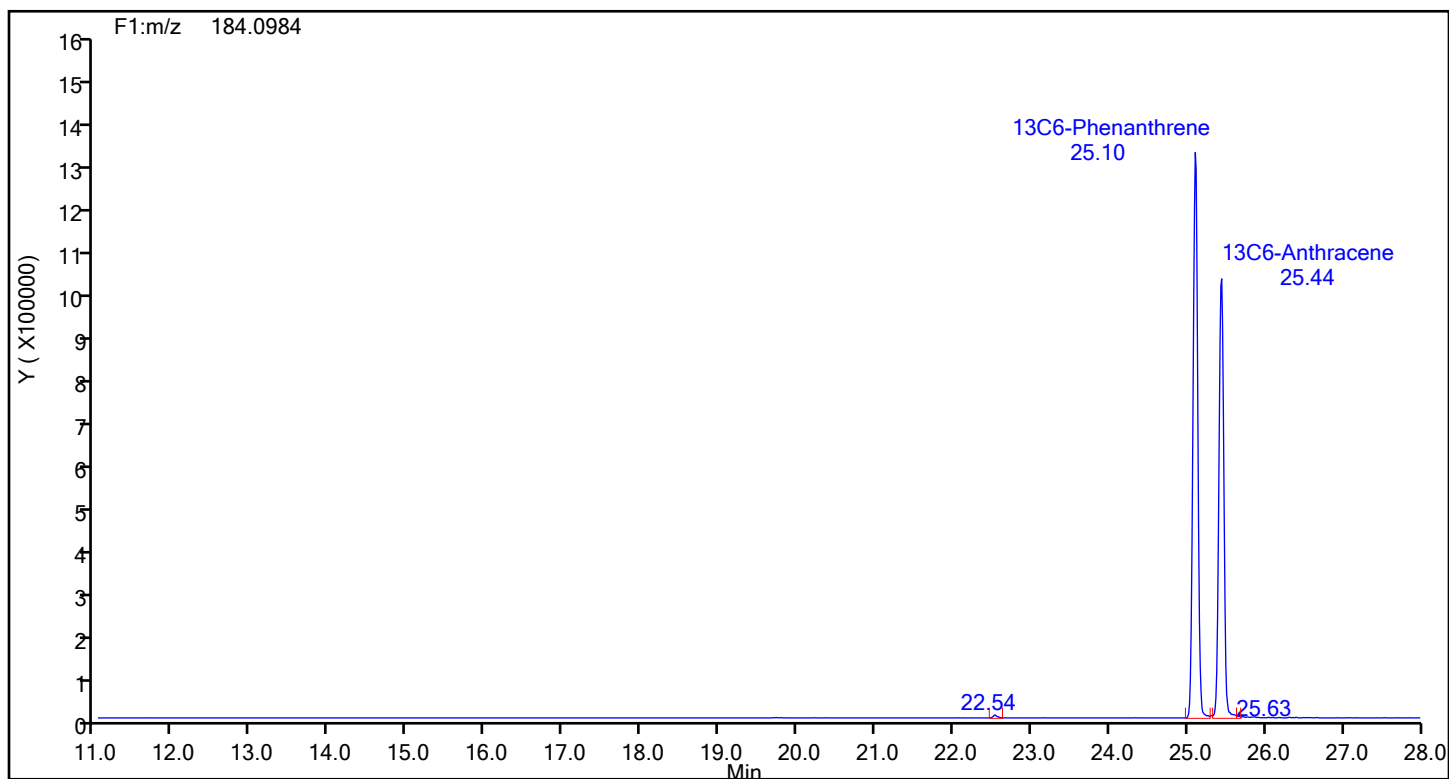


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

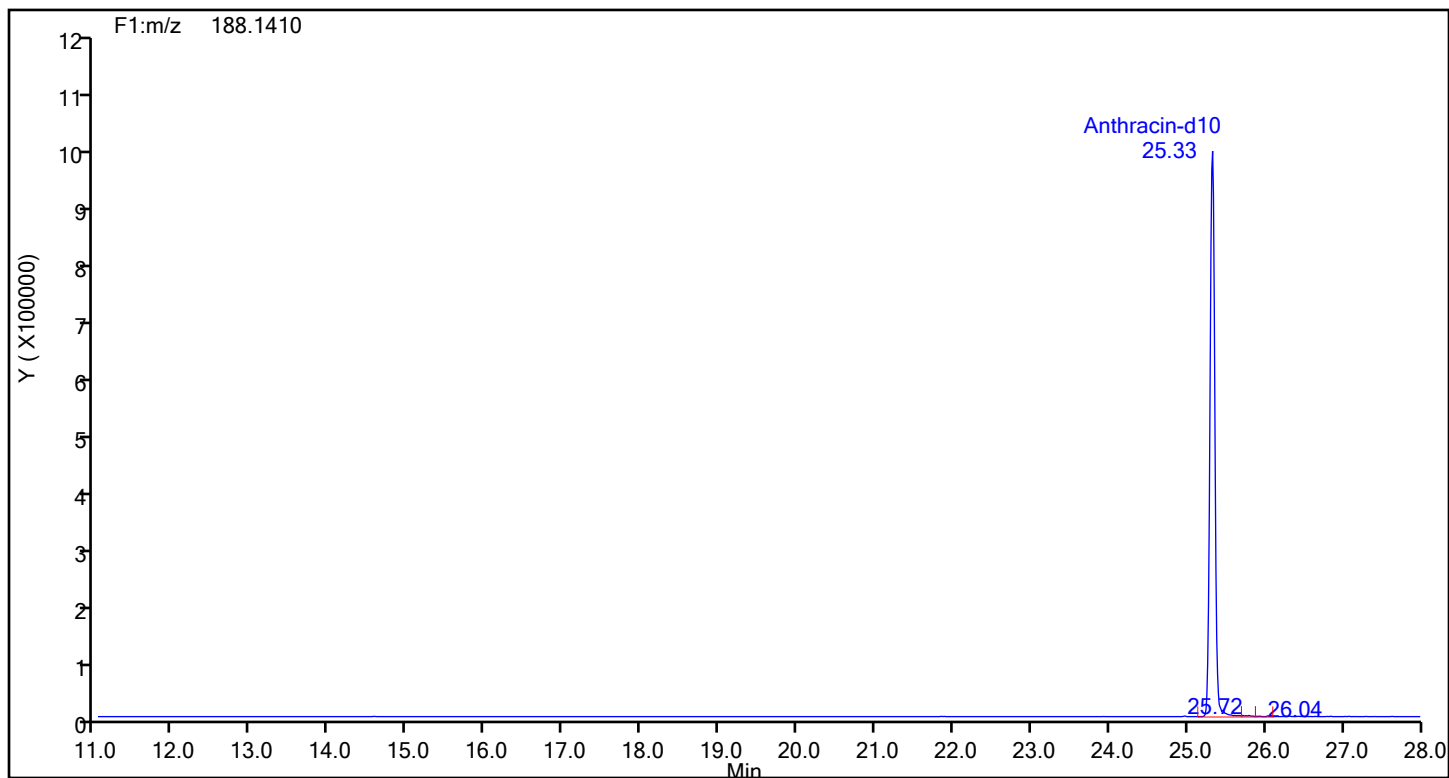


Phenanthrene Standards

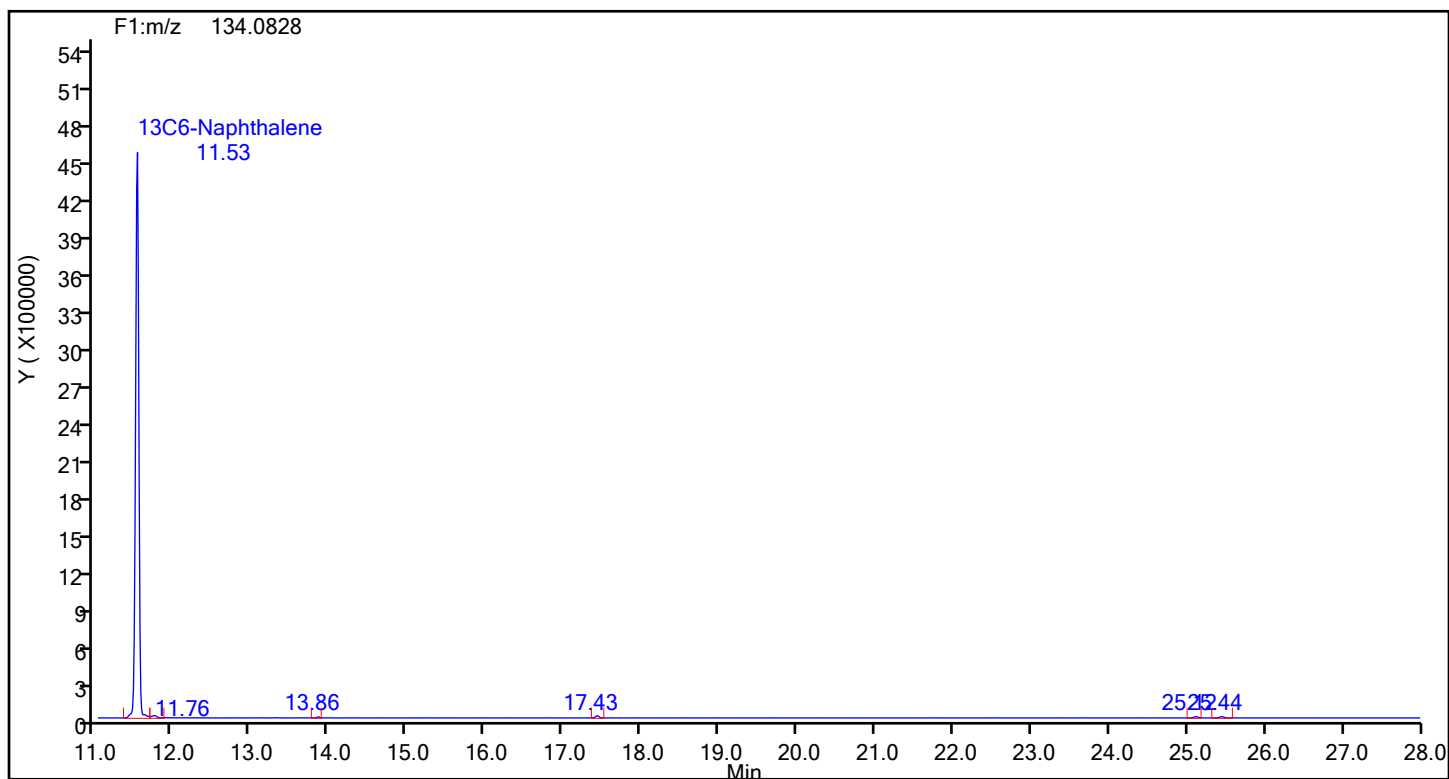


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

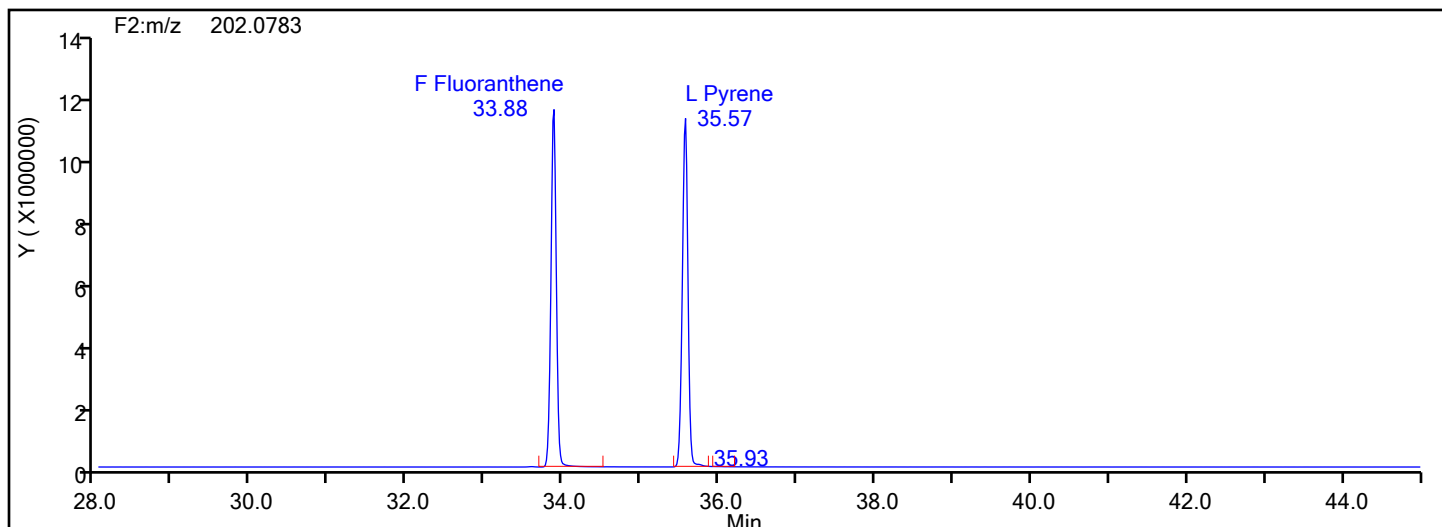


Anthracin-d10 Standards

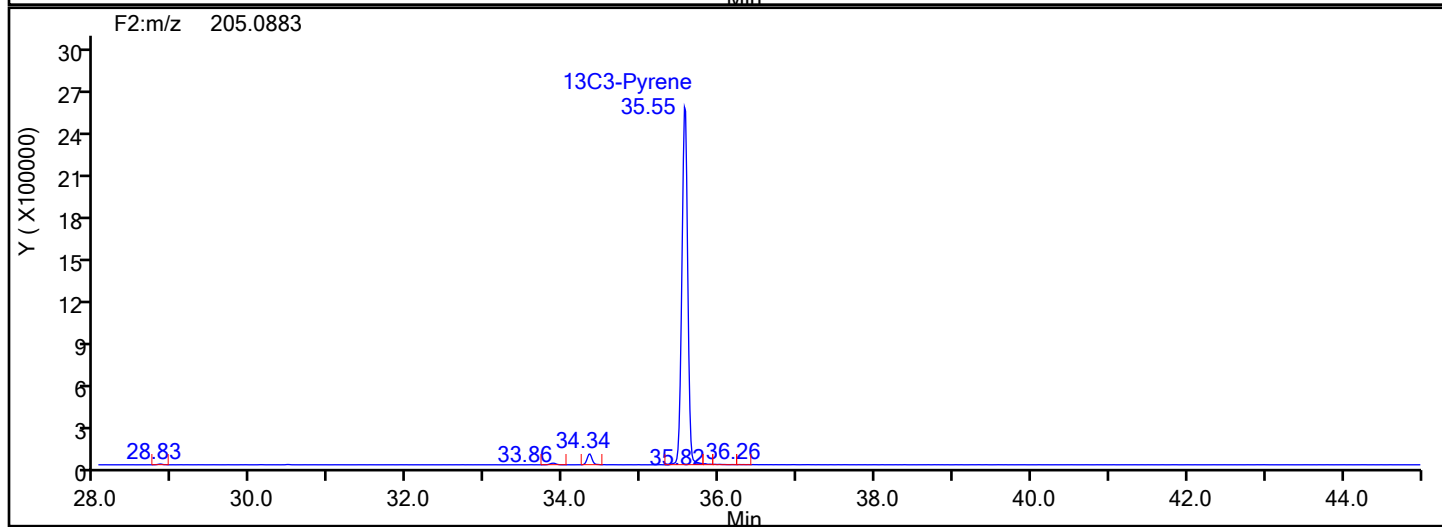
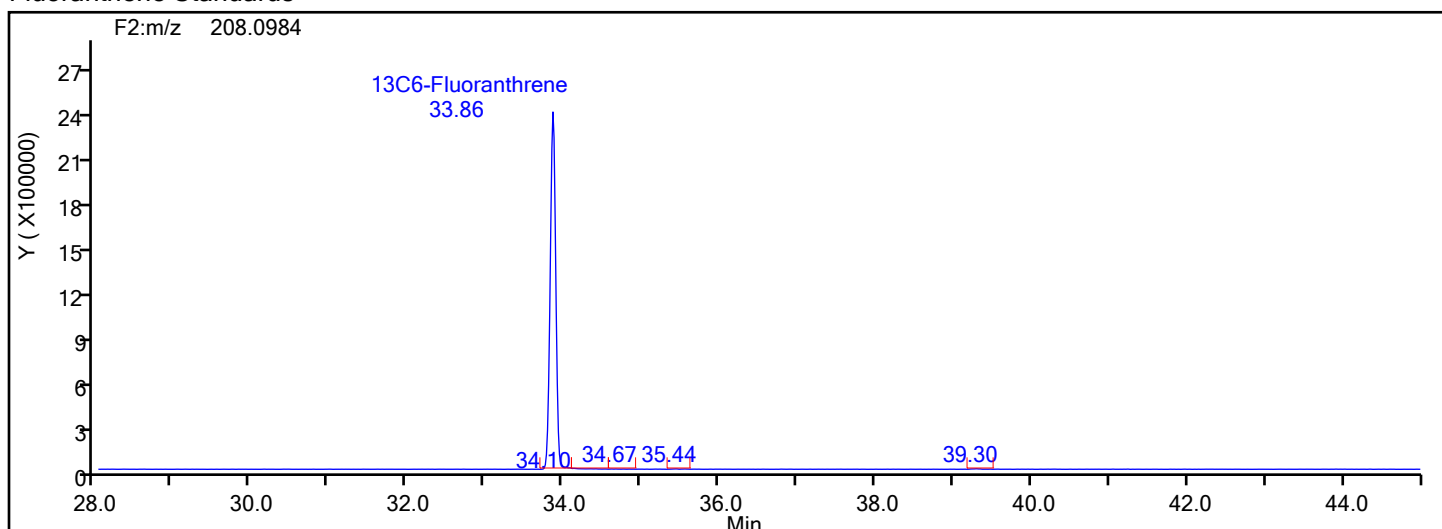


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



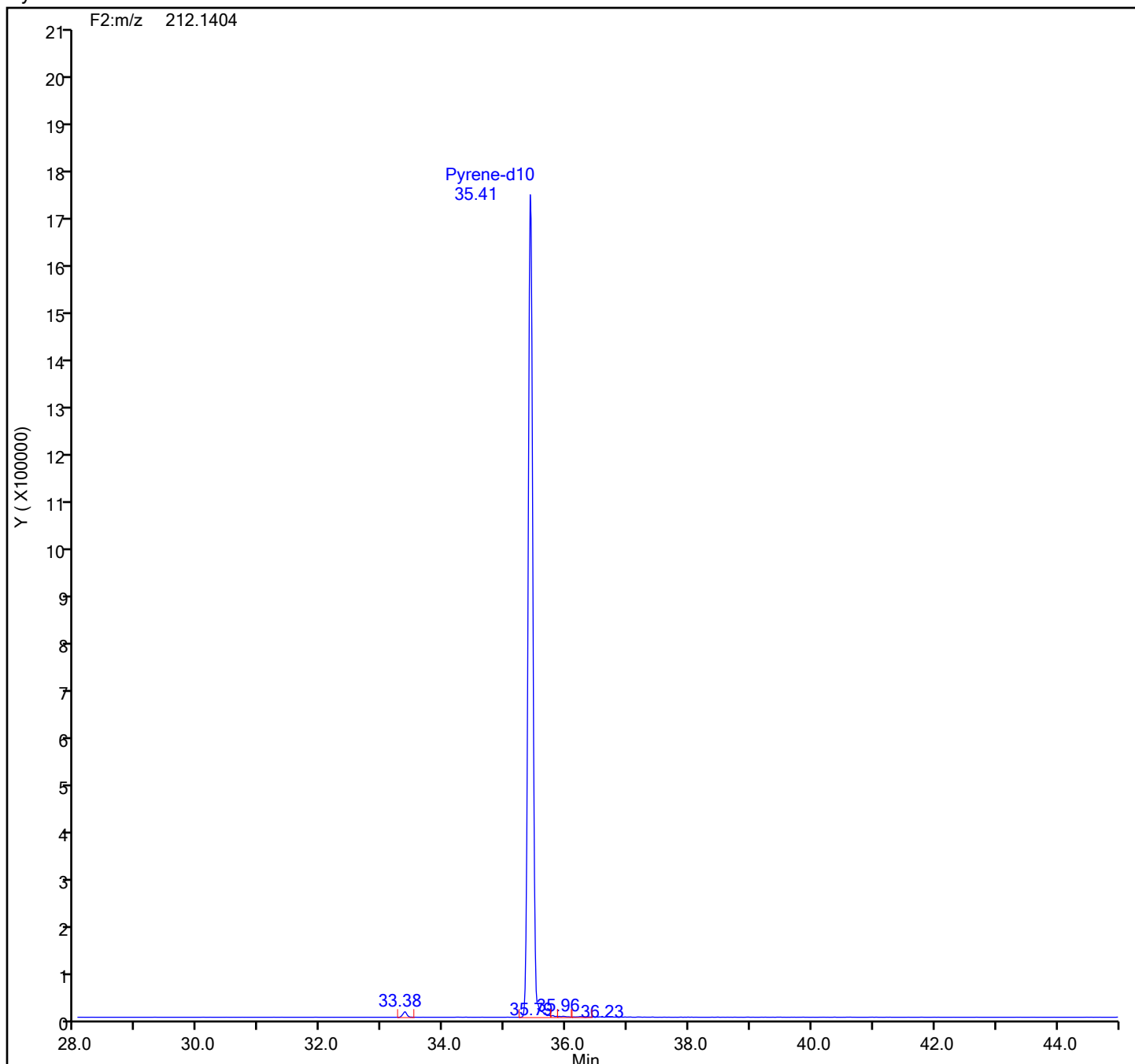
Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

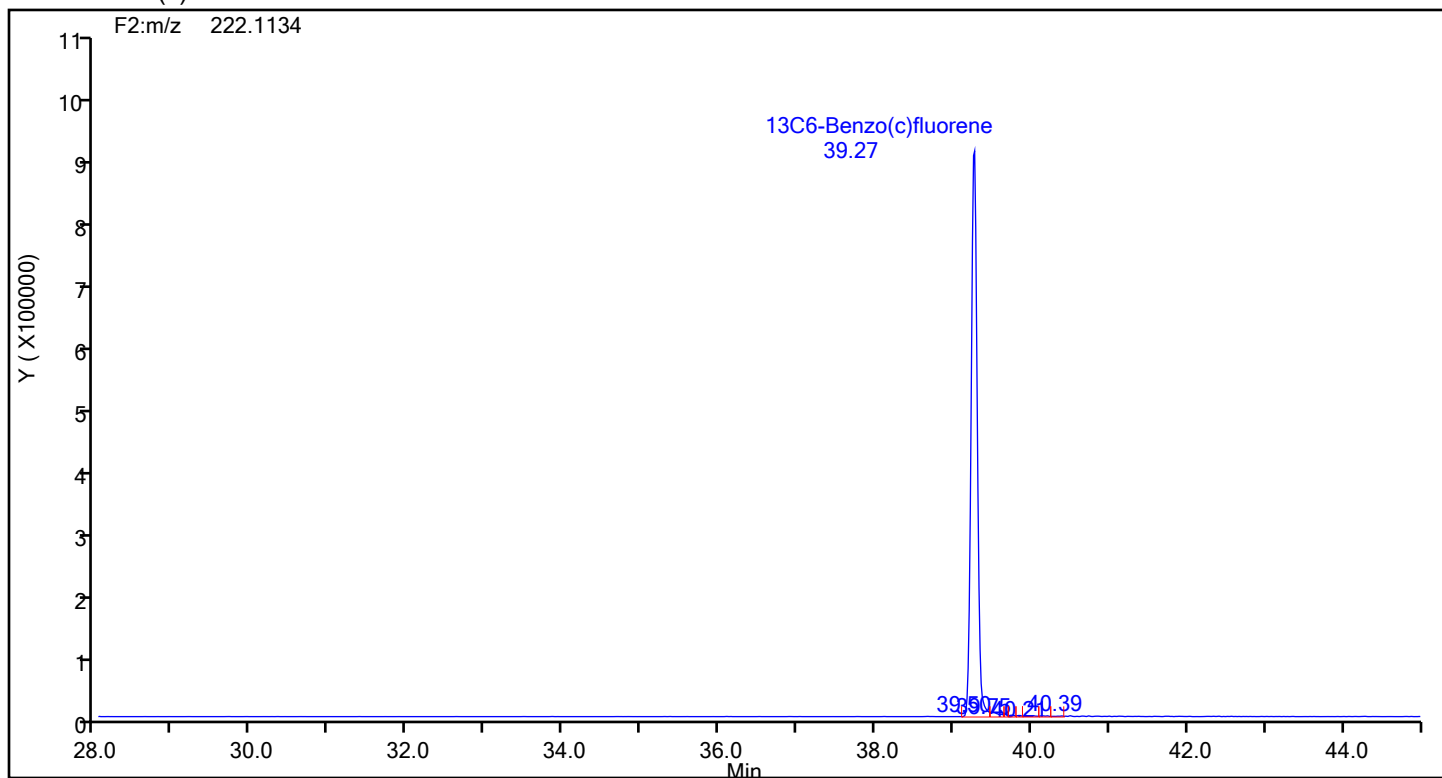
Pyrene-d10 Standards



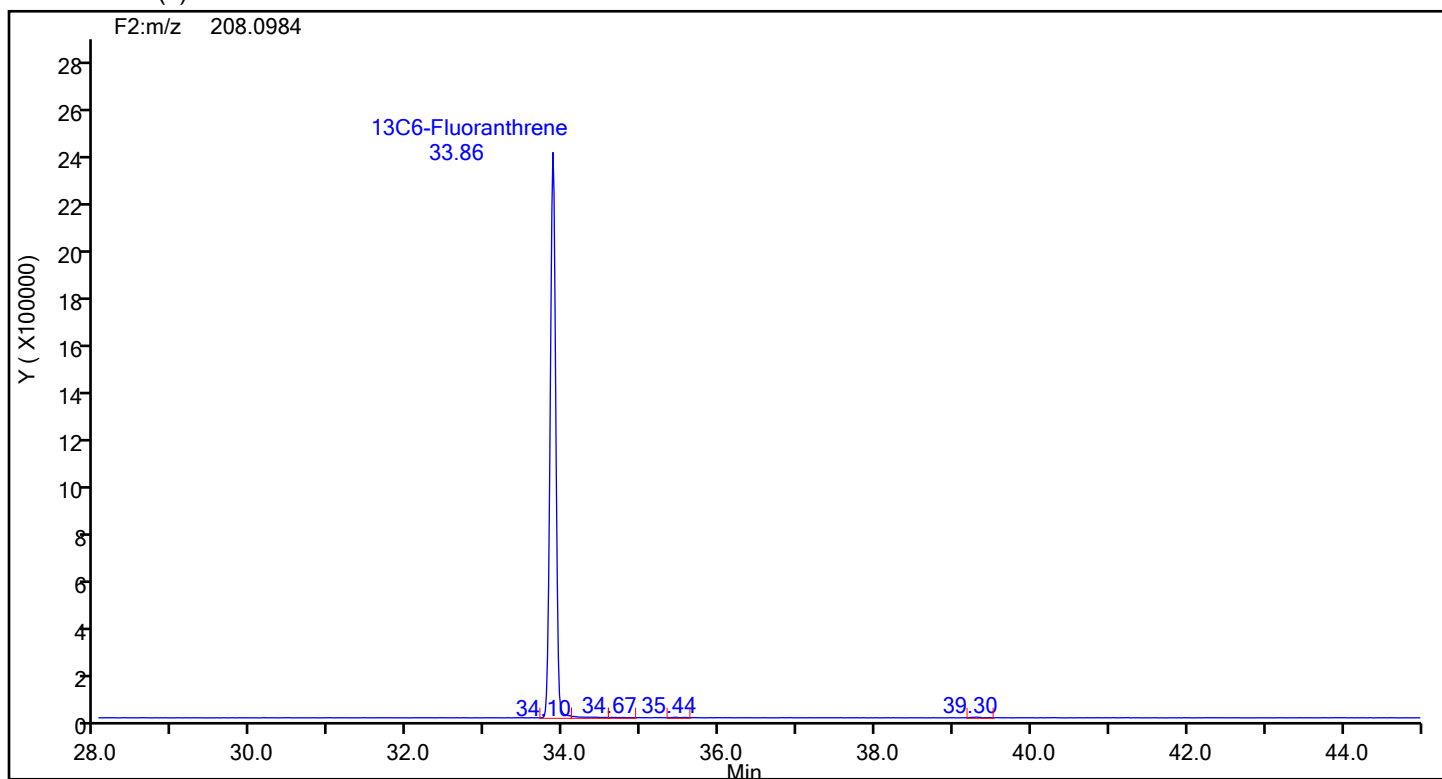
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



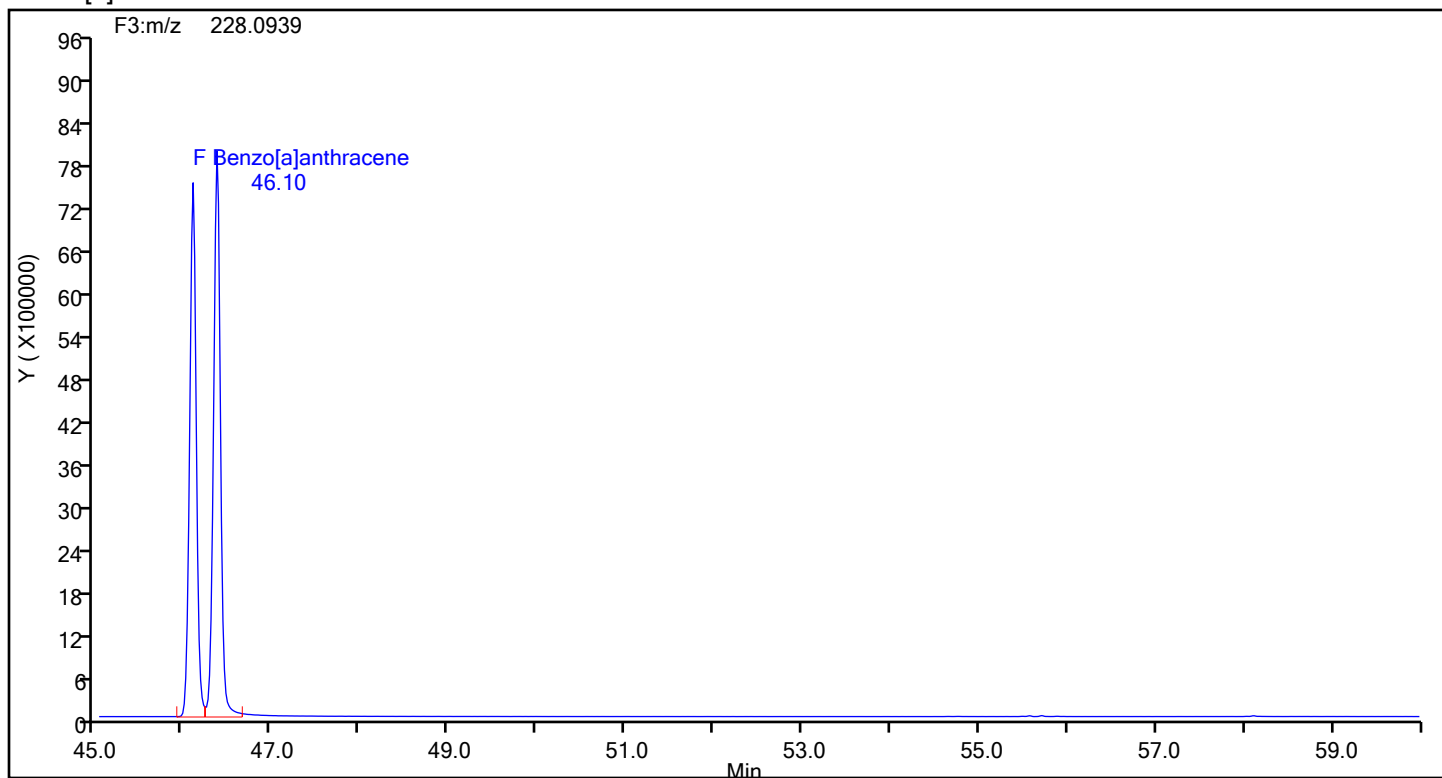
13C6-Benzo(c)fluorene Standards



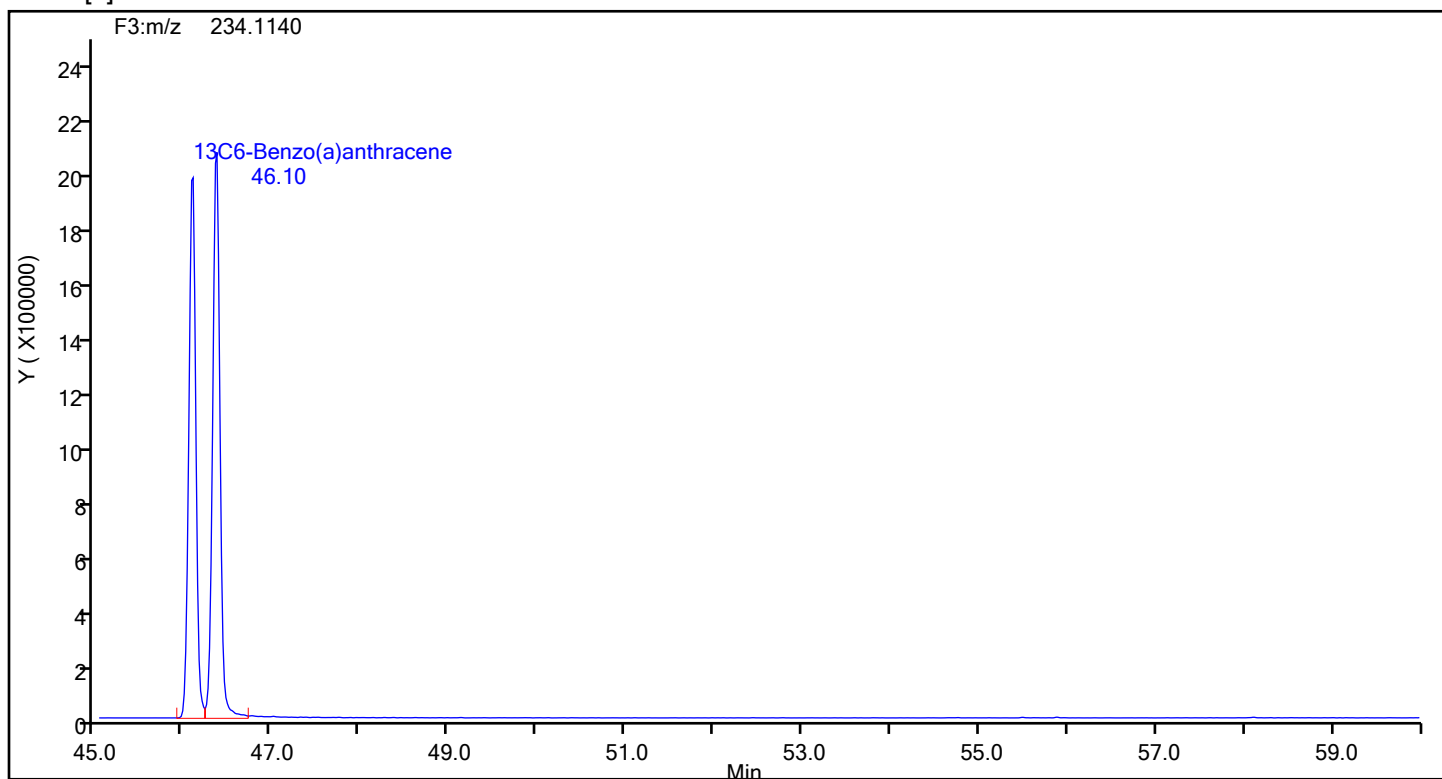
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



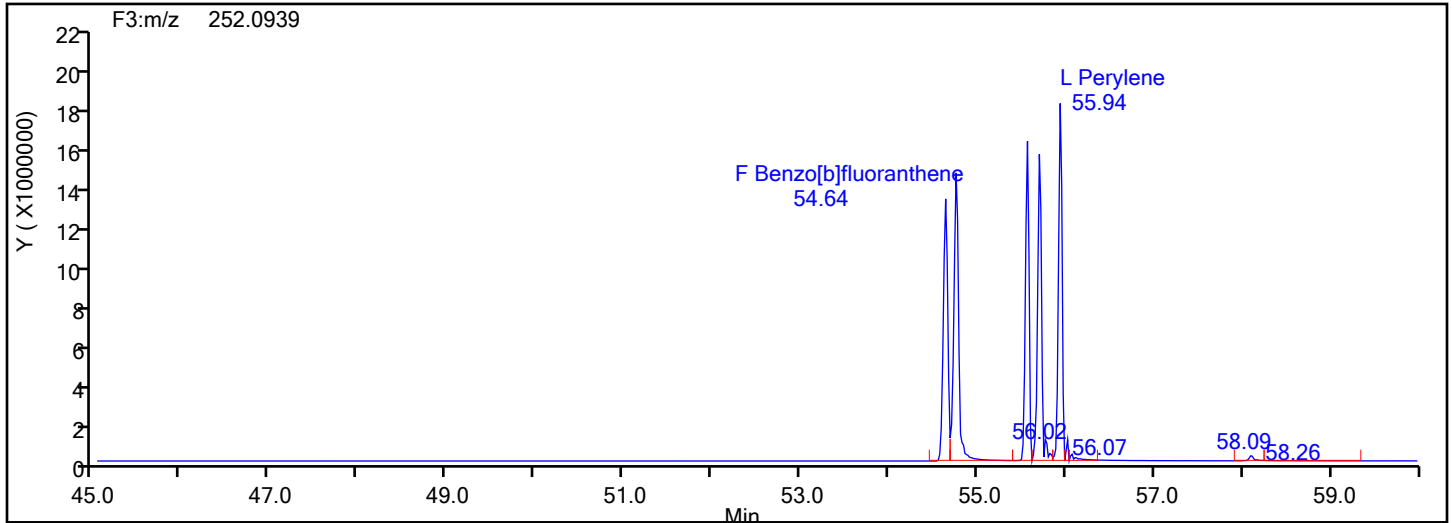
Benzo[a]anthracene Standards



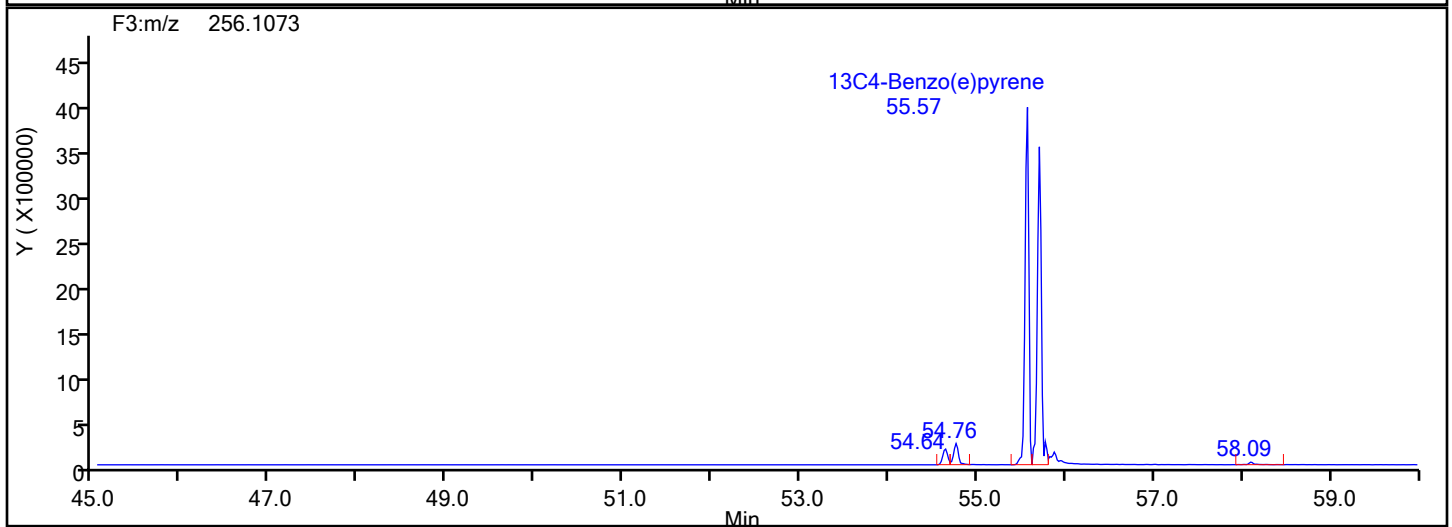
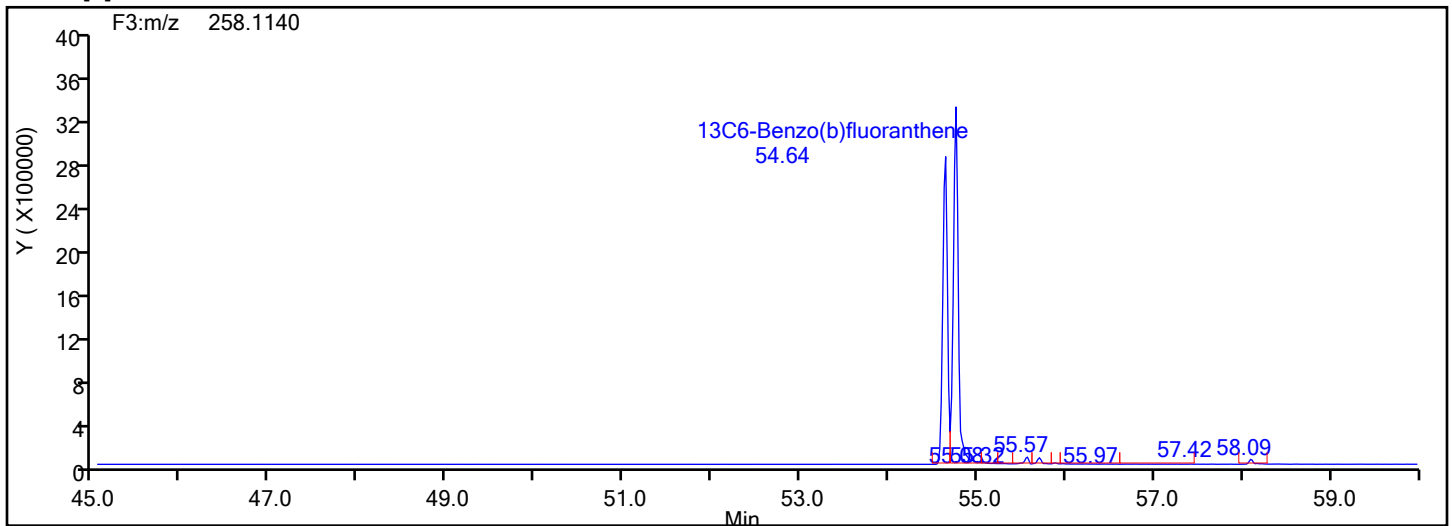
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



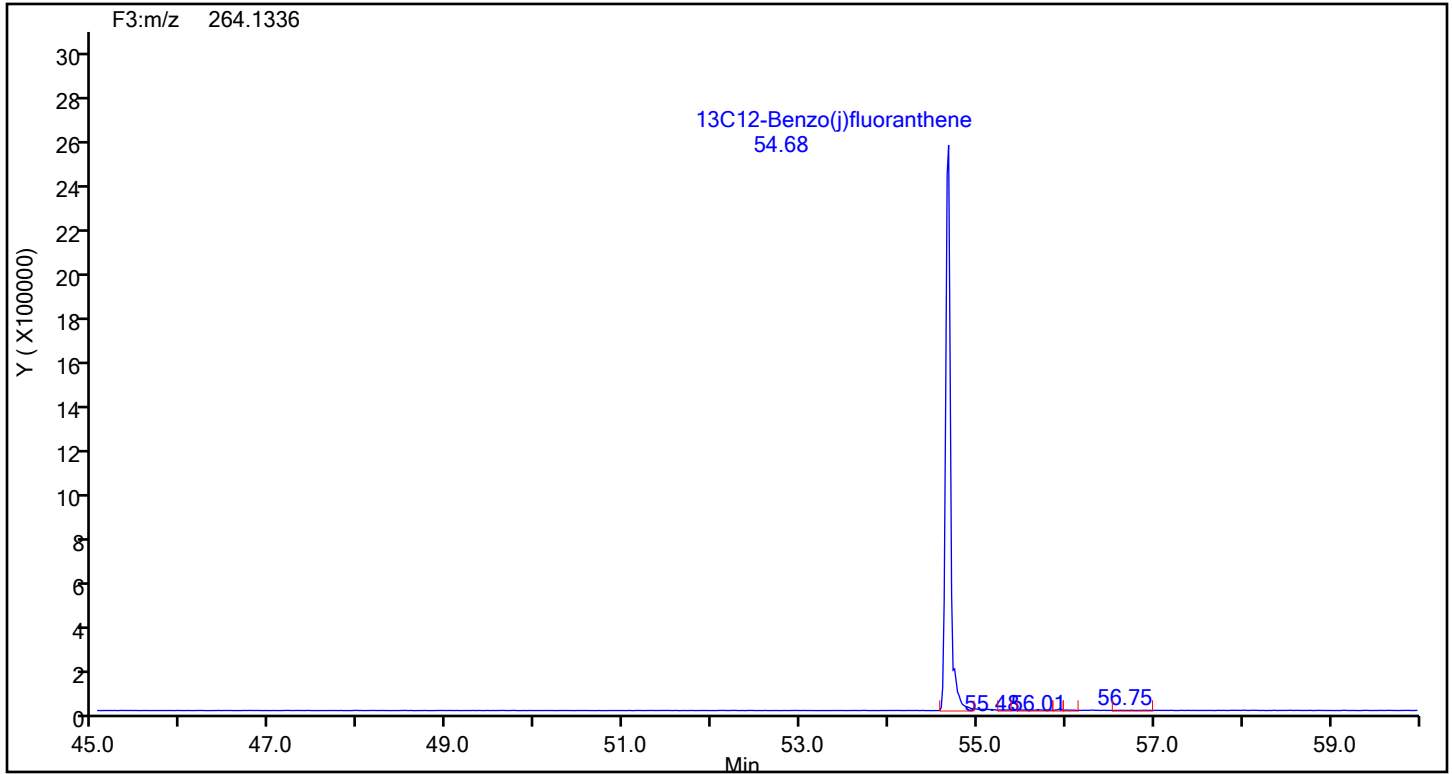
Benzo[b]fluoranthene Standards



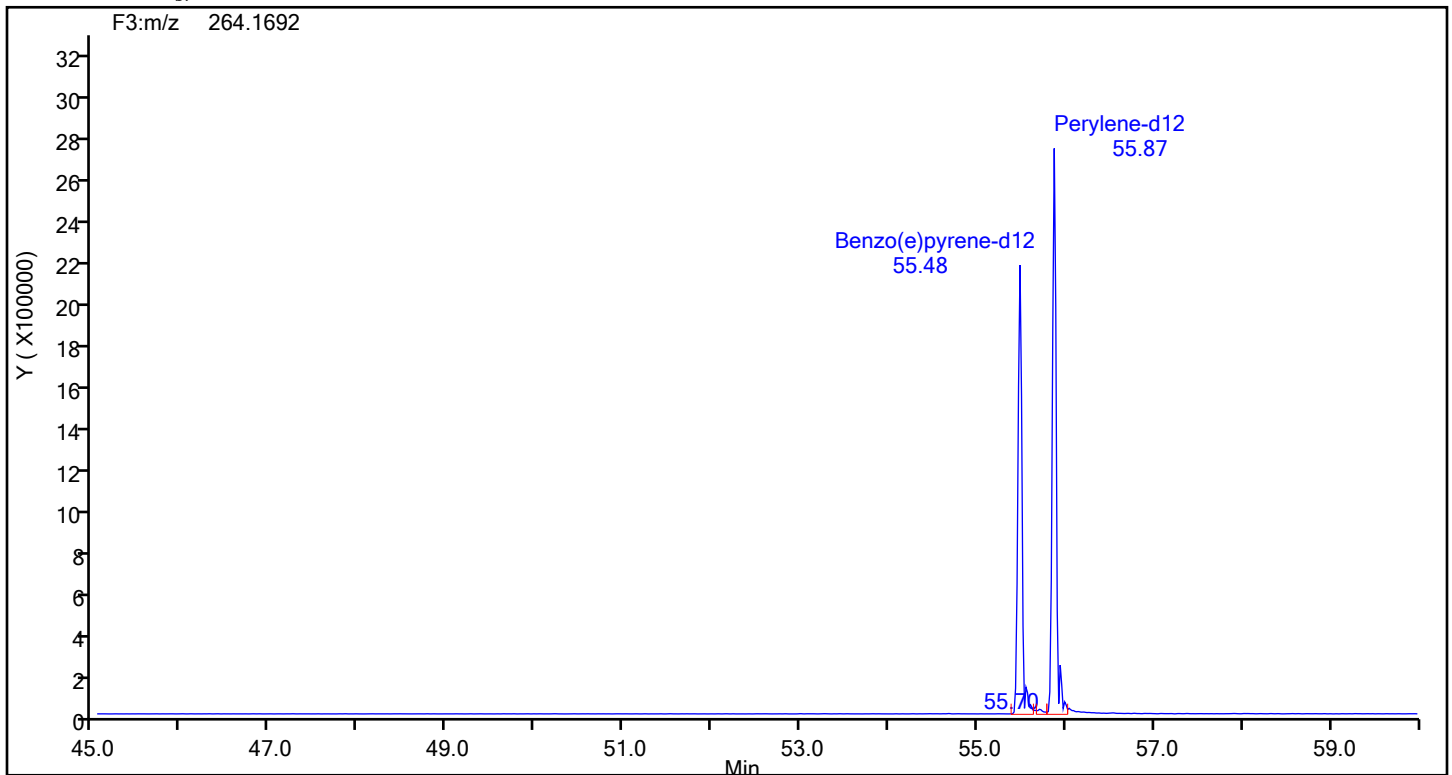
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



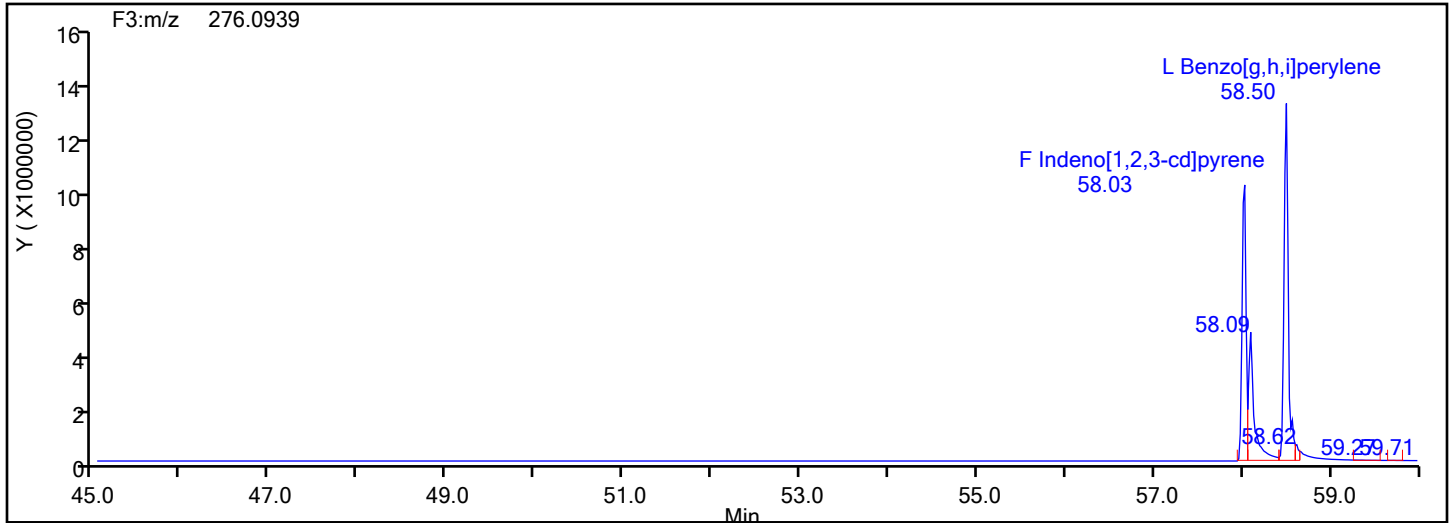
13C12-Benzo(j)fluoranthene Standards



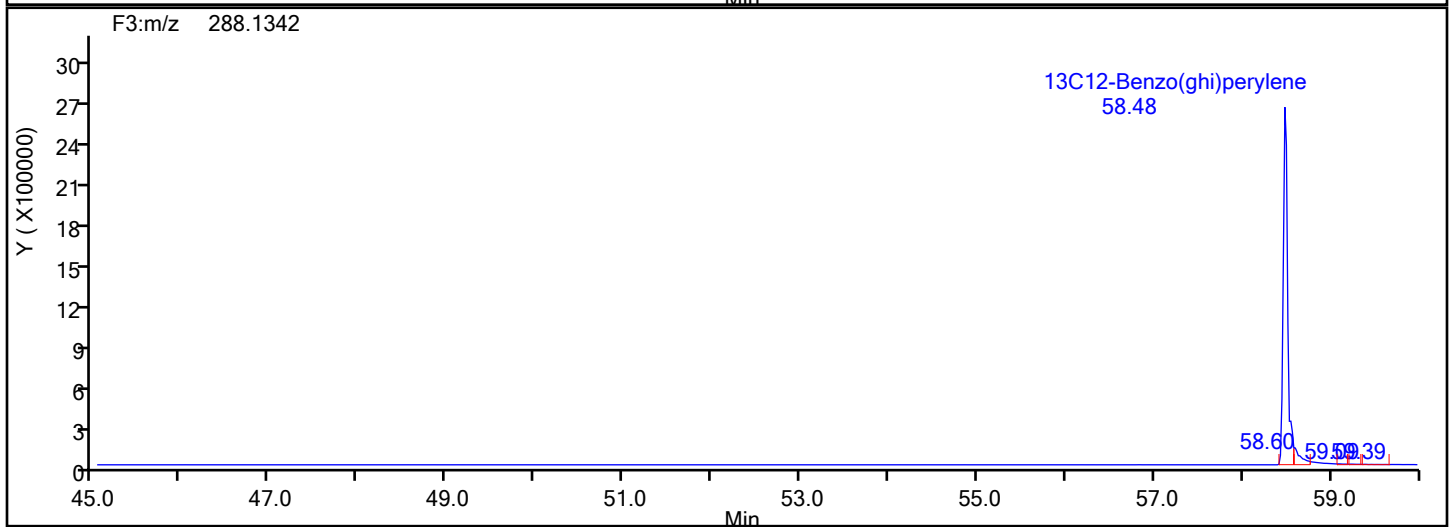
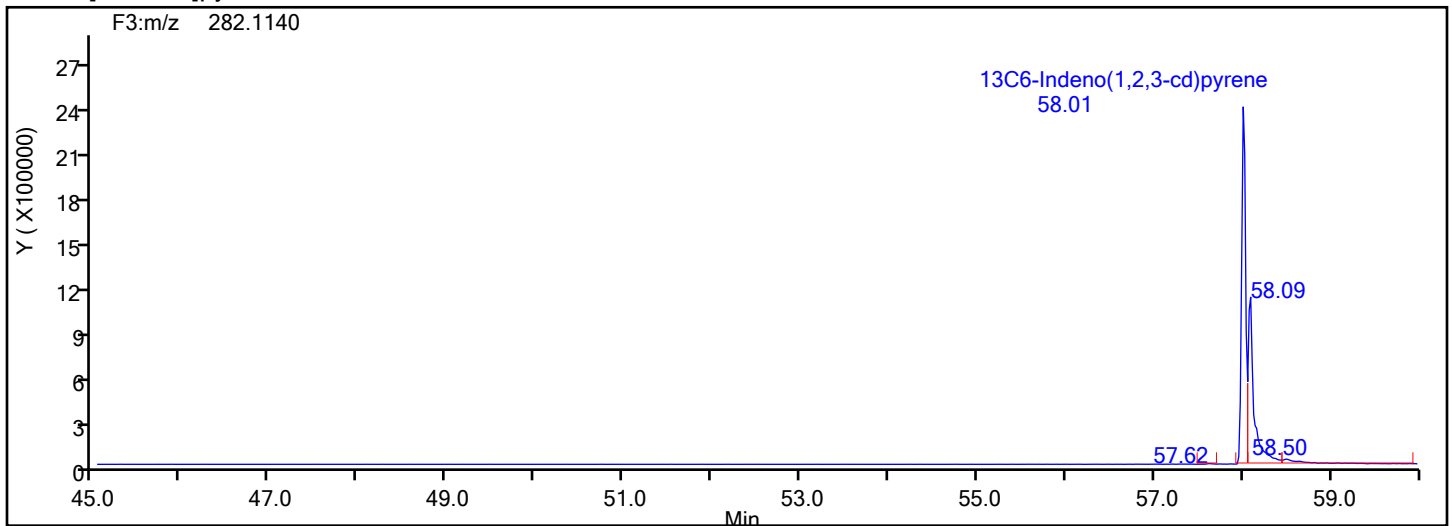
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

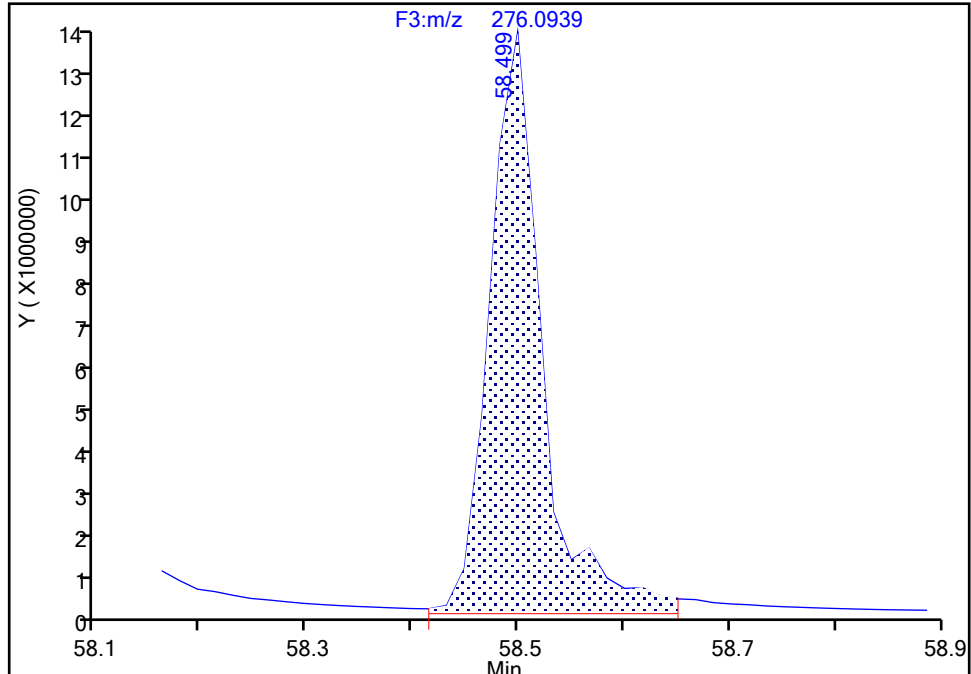
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Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH
Lims ID: IC L8
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

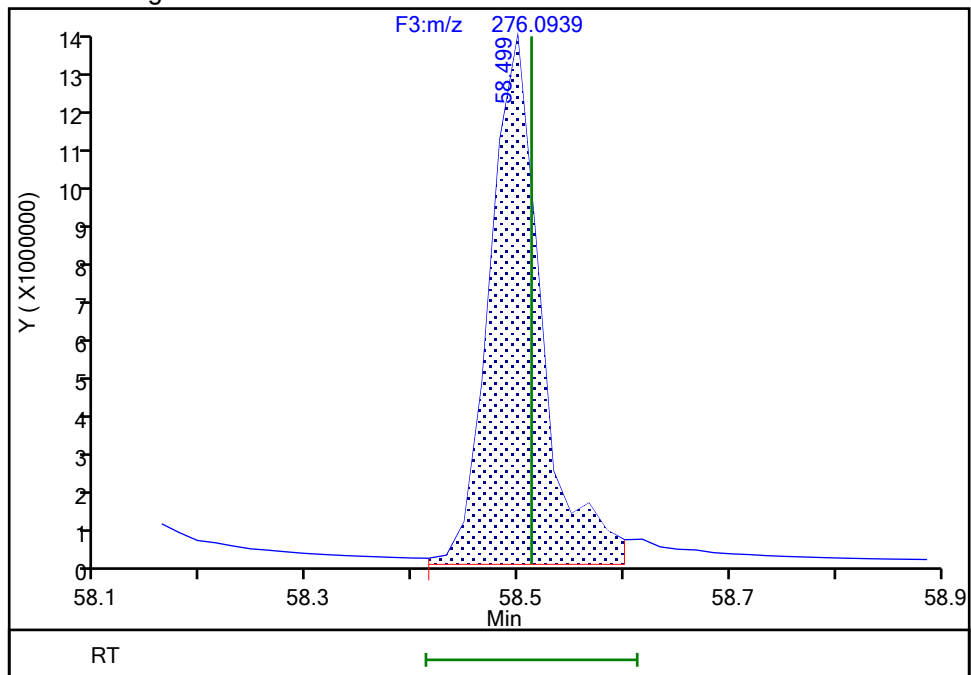
RT: 58.50
Area: 45816007
Amount: 385.7539
Amount Units: pg/ul

Processing Integration Results



RT: 58.50
Area: 44647127
Amount: 375.9607
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

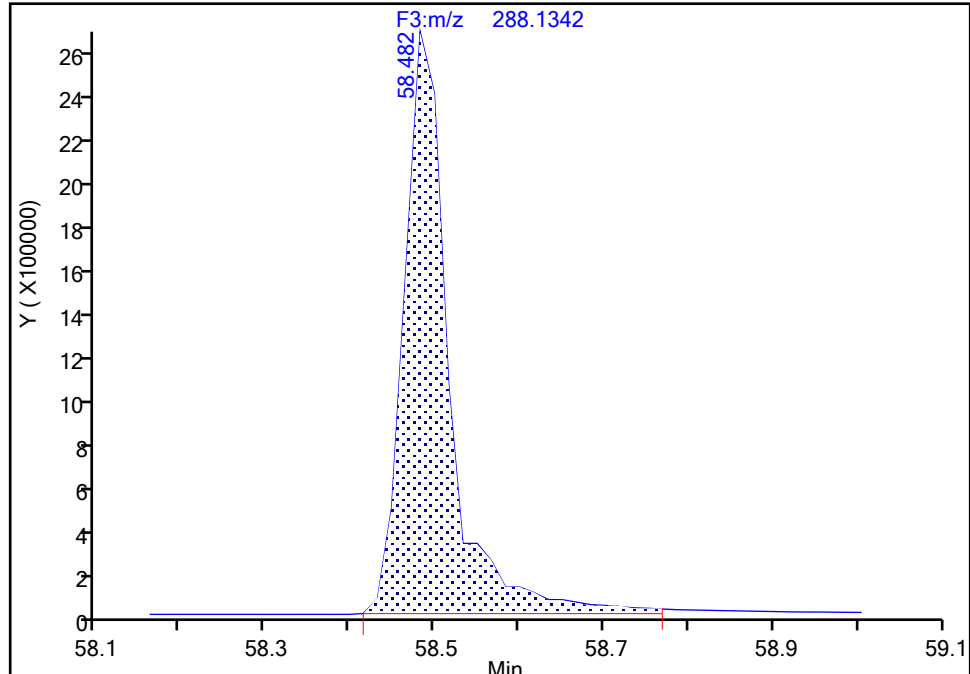
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Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH
Lims ID: IC L8
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

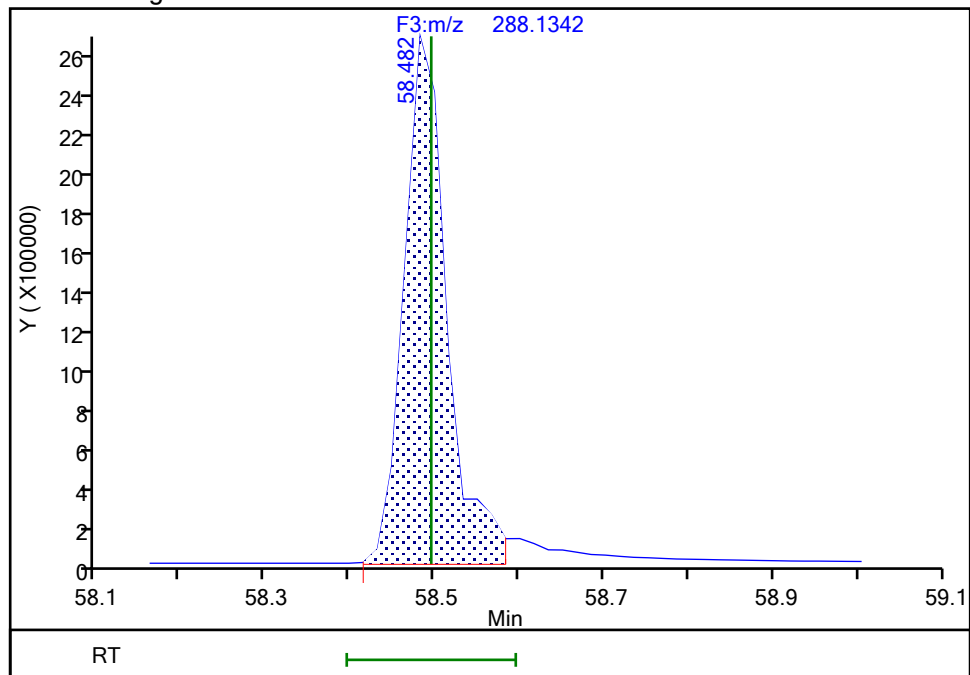
RT: 58.48
Area: 9855389
Amount: 110.4885
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 9250572
Amount: 105.1009
Amount Units: pg/ul

Manual Integration Results



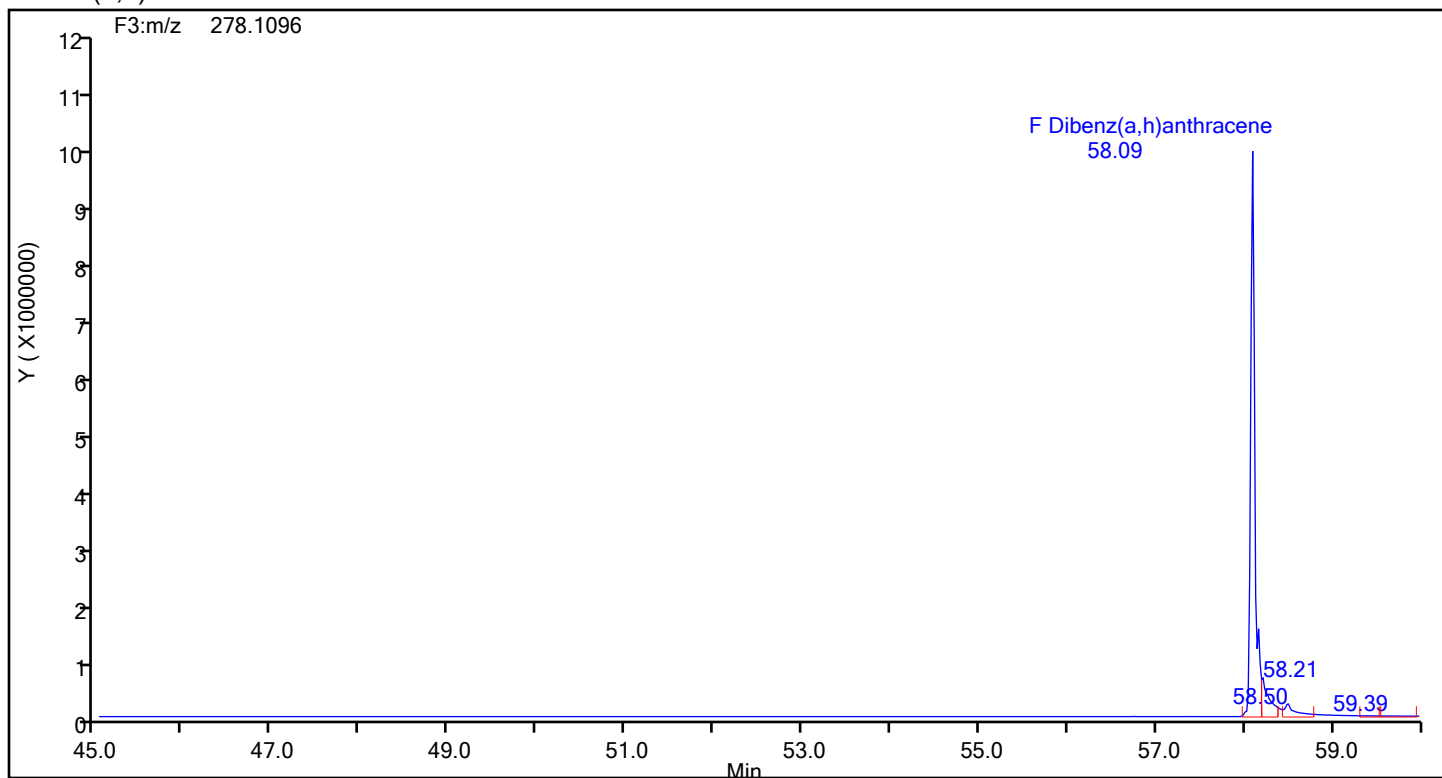
Reviewer: F9EE, 20-Jun-2024 09:39:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

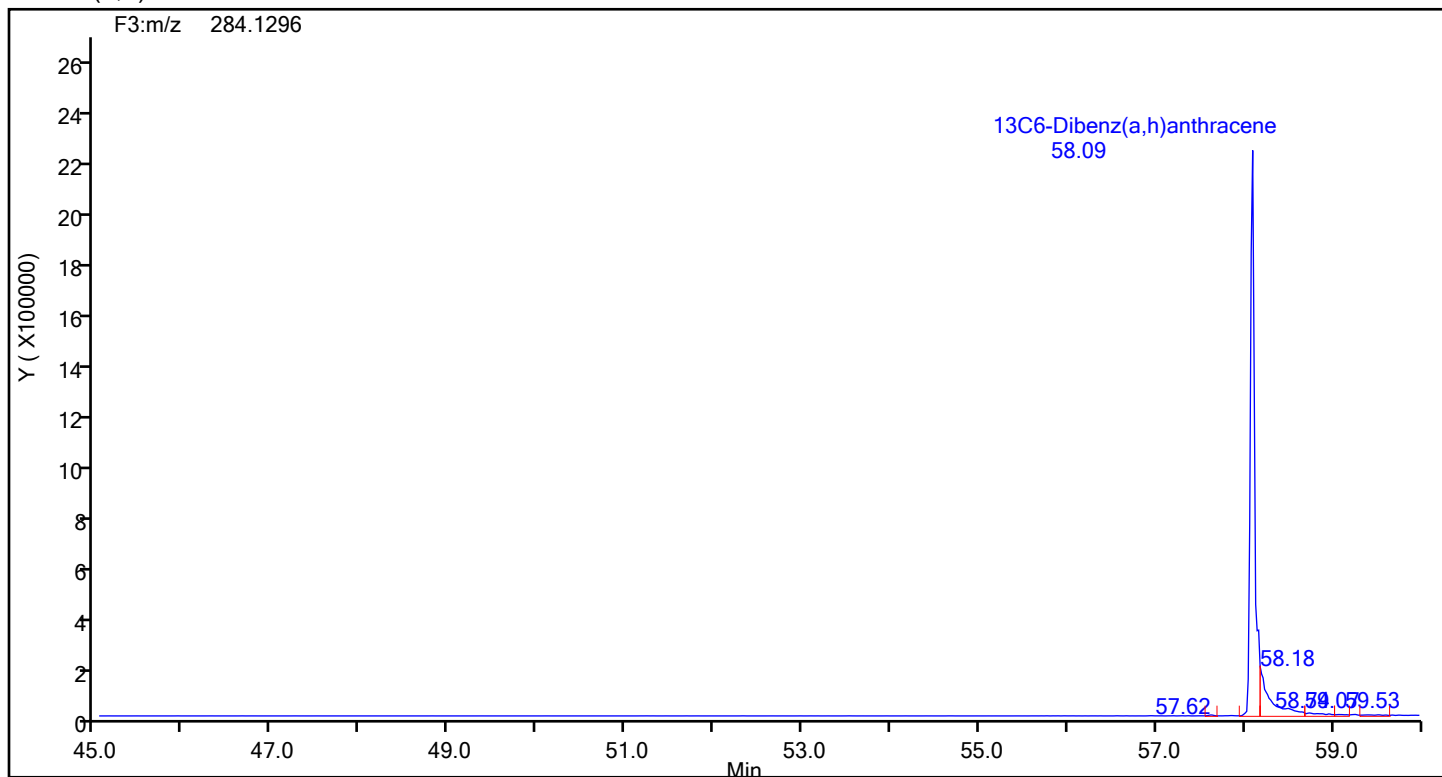
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 8
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

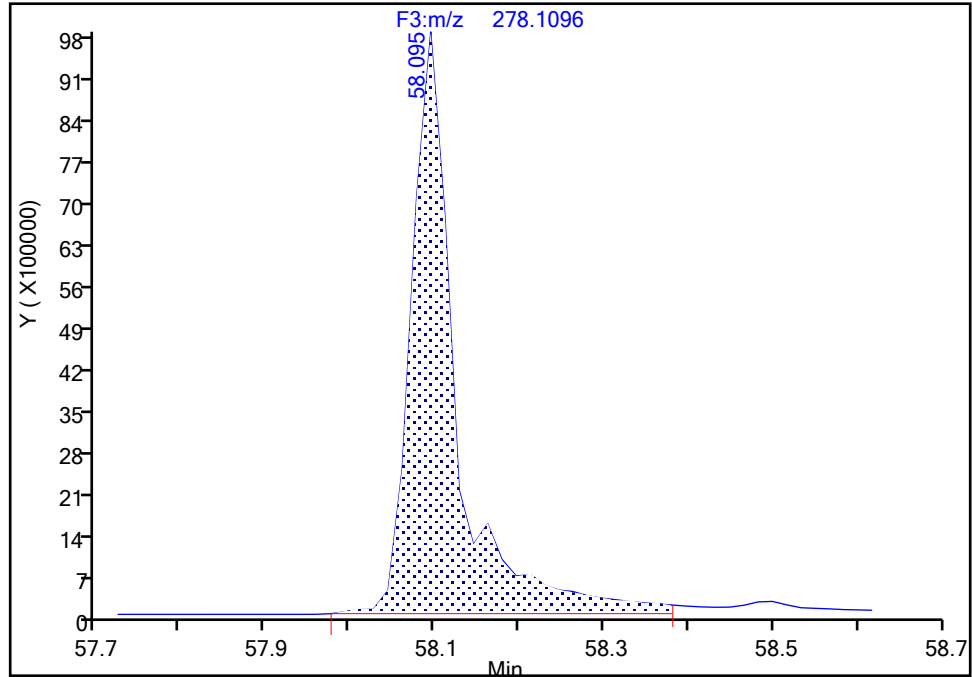
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic8.d
Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH
Lims ID: IC L8
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

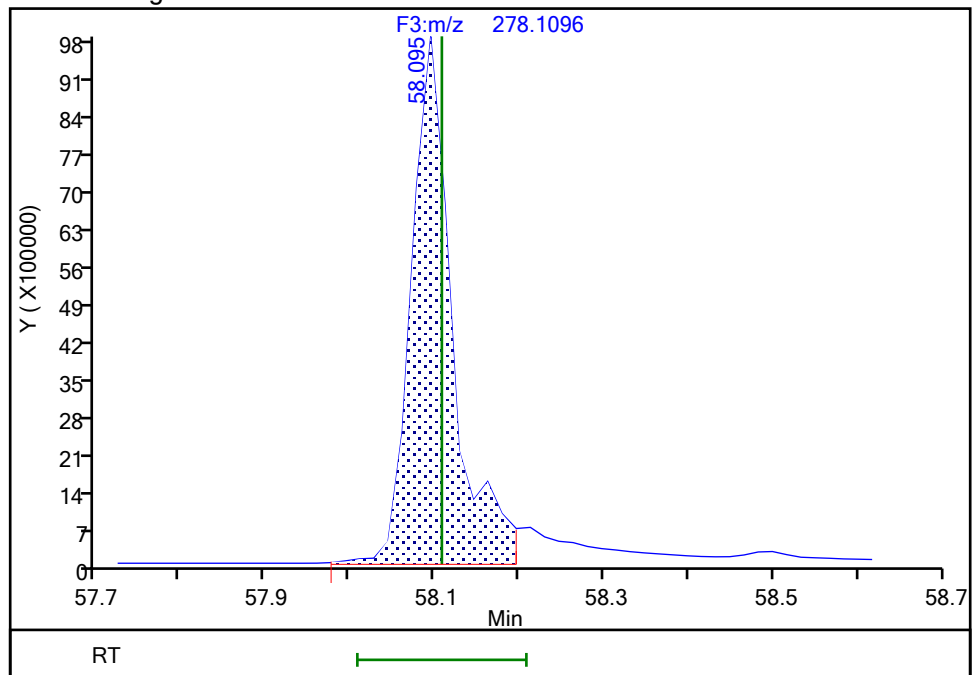
RT: 58.09
Area: 36901922
Amount: 419.5312
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
Area: 33420949
Amount: 383.8488
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

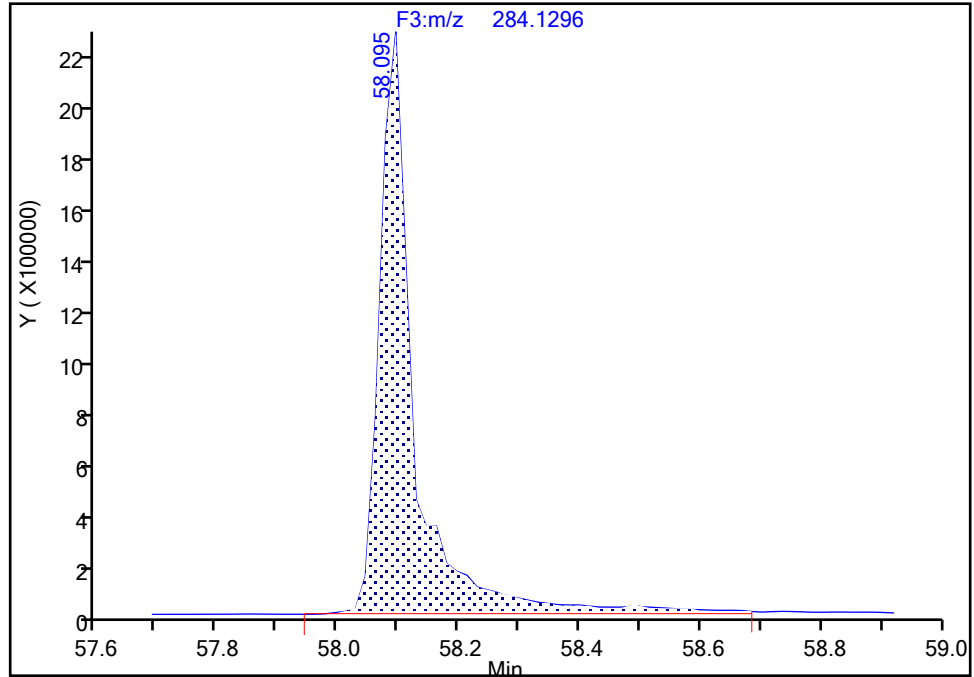
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Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH
Lims ID: IC L8
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: ST03360

Signal: 1

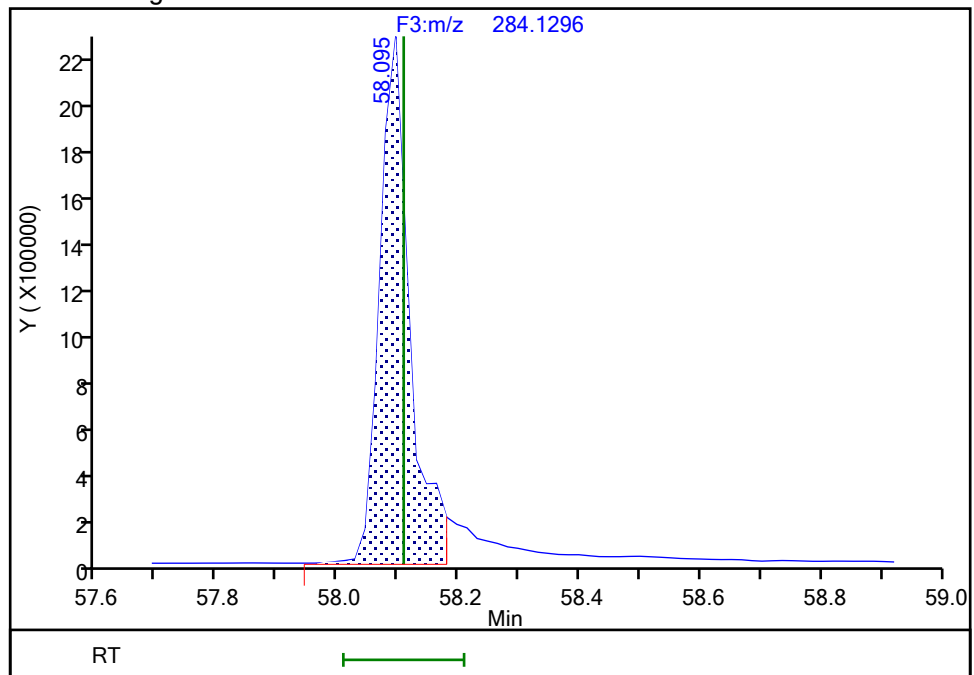
RT: 58.09
Area: 9058656
Amount: 120.2342
Amount Units: pg/ul

Processing Integration Results



RT: 58.09
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Amount: 105.6318
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Lims ID: IC L9
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 20-Jun-2024 01:09:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-009
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	14774767		3.3746	95.0	95.0	0.005180	0.005180	95.01	
Naphthalene	11:32	201858027		1.2893	1059.7	1059.7	0.0781	0.0781	106	
D 13C6-2-Methylnaphthalene	13:51	7285064		1.6031	98.6	98.6	0.000456	0.000456	98.62	
2-Methylnaphthalene	13:51	98360151		1.2786	1056.0	1056.0	0.0146	0.0146	106	
D 13C6-Acenaphthylene	16:43	7859583		1.6520	103.2	103.2	0.001106	0.001106	103	
Acenaphthylene	16:44	121166606		2.3661	1098.3	1098.3	0.0245	0.0245	110	
* Acenaphthene-d10	17:18	4608161		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:25	4662594		0.9792	103.3	103.3	0.000933	0.000933	103	
Acenaphthene	17:26	59890100		1.2697	1011.7	1011.7	0.0255	0.0255	101	
D 13C6-Fluorene	19:43	4314043		0.8898	105.2	105.2	0.000342	0.000342	105	
Fluorene	19:43	55690348		1.2532	1030.1	1030.1	0.0231	0.0231	103	
D 13C6-Phenanthrene	25:06	6524734		0.5724	114.5	114.5	0.000939	0.000939	115	
Phenanthrene	25:06	72771385		1.1044	1009.8	1009.8	0.0255	0.0255	101	
\$ Anthracin-d10	25:19	4574361		0.4257	108.0	108.0	0.001262	0.001262	108	
D 13C6-Anthracene	25:26	5177443		0.4523	115.0	115.0	0.001188	0.001188	115	
Anthracene	25:26	71918449		1.3586	1022.4	1022.4	0.0260	0.0260	102	
D 13C6-Fluoranthrene	33:51	13148739		1.1994	110.1	110.1	0.0166	0.0166	110	
Fluoranthene	33:52	162763939		1.1513	1075.2	1075.2	0.0208	0.0208	108	
* Pyrene-d10	35:24	9953605		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:33	15391681		1.3512	114.4	114.4	0.009623	0.009623	114	
Pyrene	35:33	171639473		1.0652	1046.9	1046.9	0.0202	0.0202	105	
\$ 13C6-Benzo(c)fluorene	39:15	4981238		0.5136	97.4	97.4	0.002825	0.002825	97.44	
D 13C6-Benzo(a)anthracene	46:05	12260100		1.5189	111.9	111.9	0.0105	0.0105	112	
Benzo[a]anthracene	46:05	124165534		0.9739	1039.9	1039.9	0.0444	0.0444	104	
D 13C6-Chrysene	46:21	13421719		1.6287	114.3	114.3	0.009785	0.009785	114	
Chrysene	46:21	134817195		0.9815	1023.5	1023.5	0.0409	0.0409	102	
D 13C6-Benzo(b)fluoranthene	54:38	12410189		1.4621	117.7	117.7	0.000950	0.000950	118	
Benzo[b]fluoranthene	54:38	155779264		1.1249	1115.9	1115.9	0.005269	0.005269	112	
\$ 13C12-Benzo(j)fluoranthene	54:40	11887745		1.3558	121.6	121.6	0.0121	0.0121	122	
D 13C6-Benzo(k)fluoranthene	54:45	16130058		1.7507	127.8	127.8	0.000794	0.000794	128	
Benzo[k]fluoranthene	54:46	180500584		1.1271	992.9	992.9	0.004443	0.004443	99.29	
* Benzo(e)pyrene-d12	55:28	7211924		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	14222064		1.6368	120.5	120.5	0.009604	0.009604	120	

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic9.d

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:33	156044174		1.0013	1095.8	1095.8	0.004323	0.004323	110	
Benzo[a]pyrene	55:42	158831908		1.1130	985.6	985.6	0.004552	0.004552	98.56	
D 13C4-Benzo(a)pyrene	55:41	14479273		1.5508	129.5	129.5	0.0101	0.0101	129	
D Perylene-d12	55:52	9436646		1.1917	109.8	109.8	0.0128	0.0128	110	
Perylene	55:57	179211720		1.4307	1327.4	1327.4	0.005164	0.005164	133	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	8585756		1.0218	116.5	116.5	0.007947	0.007947	117	
Indeno[1,2,3-cd]pyrene	58:01	113067905		1.1249	1170.7	1170.7	0.006481	0.006481	117	M
D 13C6-Dibenz(a,h)anthracene	58:05	9436274		1.0553	124.0	124.0	0.005350	0.005350	124	M
Dibenz(a,h)anthracene	58:05	110582572		1.1314	1035.8	1035.8	0.005350	0.005350	104	M
D 13C12-Benzo(ghi)perylene	58:29	11042946		1.2749	120.1	120.1	0.003985	0.003985	120	M
Benzo[g,h,i]perylene	58:29	147488032		1.2838	1040.4	1040.4	0.004891	0.004891	104	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS7_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Lims ID: IC L9
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 20-Jun-2024 01:09:00 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033168-009
 Operator ID: Xcalibur_System Instrument ID: D3PAH
 Sublist: chrom-EPA_23__PAH*sub1
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 Limit Group: HR - HRPAAH ICAL
 Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00
 Integrator: RTE
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
 Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	14774767	5075353	115	287	44134		
Naphthalene											
128.0626	11:32	11:34	-2	1.000	201858027	75720333	2044	5110	37045		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	7285064	3487207	5	12	697441		
2-Methylnaphthalene											
142.0783	13:51	13:53	-2	1.000	98360151	48803300	260	650	187705		
13C6-Acenaphthylene											
158.0828	16:43	16:45	-2	0.966	7859583	2853768	12	30	237814		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	121166606	45941648	377	942	121861		
Acenaphthene-d10											
164.1404	17:18	17:20	-2		4608161	1641835	1	2	1641835		
13C6-Acenaphthene											
160.0984	17:25	17:27	-2	1.007	4662594	1626235	6	15	271039		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	59890100	22203742	211	527	105231		
13C6-Fluorene											
172.0984	19:43	19:45	-2	1.139	4314043	1349147	2	5	674574		
Fluorene											
166.0783	19:43	19:45	-1	1.001	55690348	17483856	156	390	112076		
13C6-Phenanthrene											
184.0984	25:06	25:08	-2	0.709	6524734	1529385	4	10	382346		
Phenanthrene											
178.0783	25:06	25:08	-2	1.000	72771385	18115584	172	430	105323		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:19	25:21	-3	0.715	4574361	1065461	4	10	266365		
13C6-Anthracene											
184.0984	25:26	25:28	-2	0.718	5177443	1219654	4	10	304914		
Anthracene											
178.0783	25:26	25:28	-2	1.000	71918449	17498624	172	430	101736		
13C6-Fluoranthrene											
208.0984	33:51	33:54	-3	0.956	13148739	2677473	148	370	18091		
Fluoranthene											
202.0783	33:52	33:54	-2	1.000	162763939	35373186	256	640	138177		
Pyrene-d10											
212.1404	35:24	35:27	-3		9953605	1861110	59	147	31544		
13C3-Pyrene											
205.0883	35:33	35:35	-2	1.004	15391681	2978975	97	242	30711		
Pyrene											
202.0783	35:33	35:35	-2	1.000	171639473	35747469	256	640	139639		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:18	-3	0.708	4981238	919788	11	27	83617		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:07	-2	1.302	12260100	2255206	147	367	15342		
Benzo[a]anthracene											
228.0939	46:05	46:07	-2	1.000	124165534	23766409	390	975	60940		
13C6-Chrysene											
234.1140	46:21	46:24	-2	1.310	13421719	2427915	147	367	16516		
Chrysene											
228.0939	46:21	46:25	-3	1.000	134817195	25201289	390	975	64619		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	12410189	3576558	13	32	275120		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-2	1.000	155779264	44191411	85	212	519899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	11887745	3118662	151	377	20653		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:47	-2	0.987	16130058	4233691	13	32	325669		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	180500584	50269875	85	212	591410		
Benzo(e)pyrene-d12											
264.1692	55:28	55:30	-2		7211924	2302707	141	352	16331		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.002	14222064	4897285	145	362	33774		
Benzo[e]pyrene											
252.0939	55:33	55:35	-2	1.000	156044174	54451536	85	212	640606		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	158831908	53036103	85	212	623954		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:41	55:44	-2	1.004	14479273	4184053	145	362	28856		
Perylene-d12											
264.1692	55:52	55:54	-2	1.007	9436646	2869477	141	352	20351		
Perylene											
252.0939	55:57	55:58	-1	1.002	179211720	59244250	85	212	696991		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	8585756	2880154	75	187	38402		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	113067905	36563722	84	210	435282		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	9436274	2676473	52	130	51471		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:07	-2	1.000	110582572	31259898	65	162	480922		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	11042946	3344331	47	117	71156		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:31	-2	1.000	147488032	46166538	84	210	549602		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS7_00002

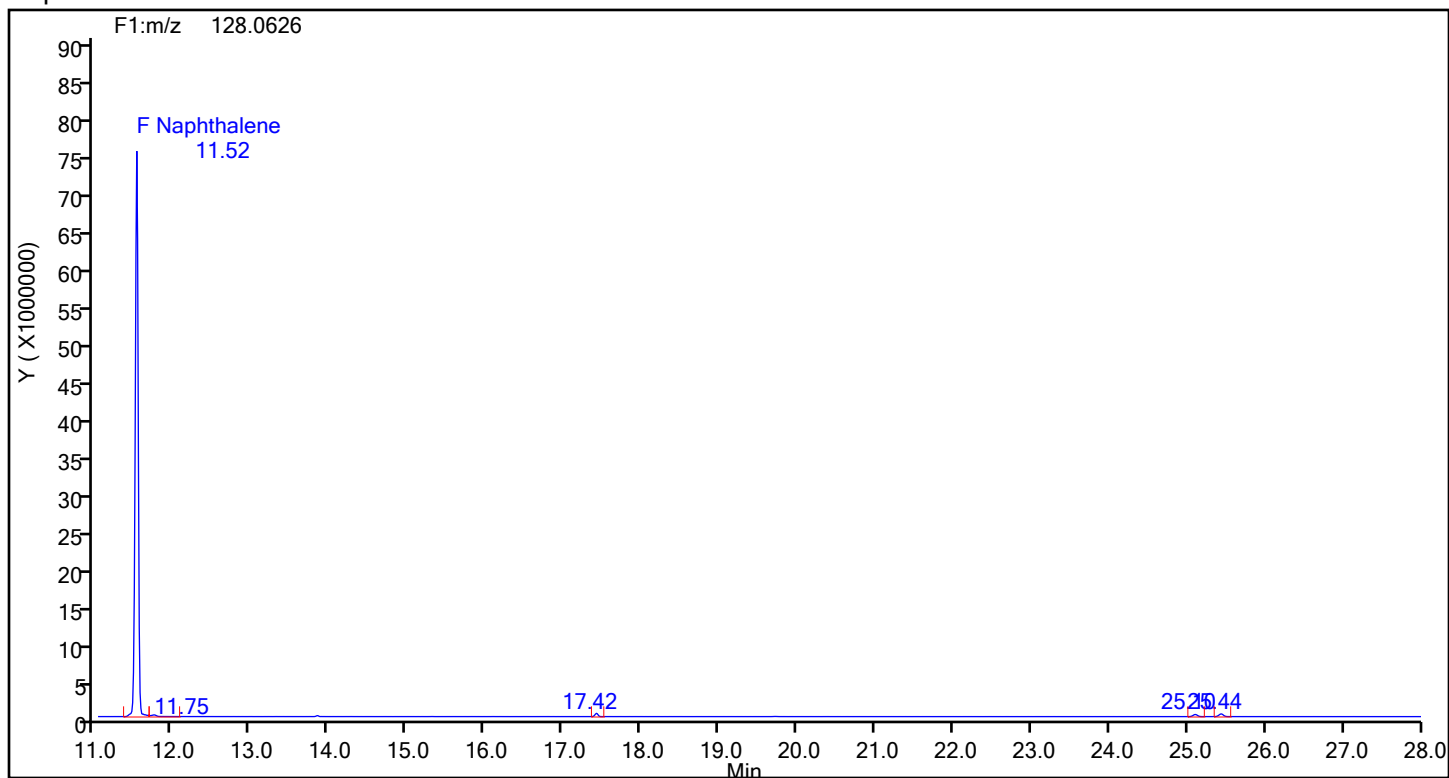
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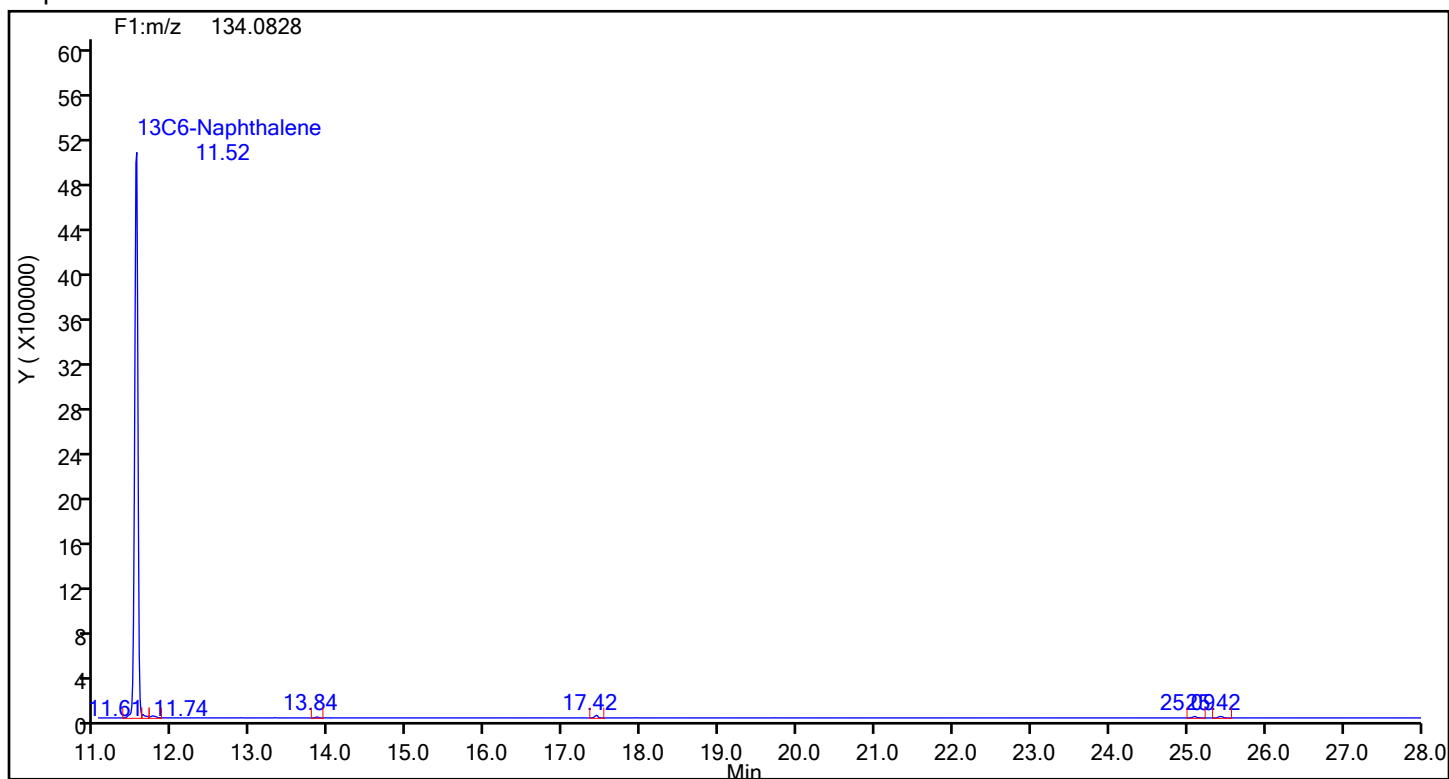
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



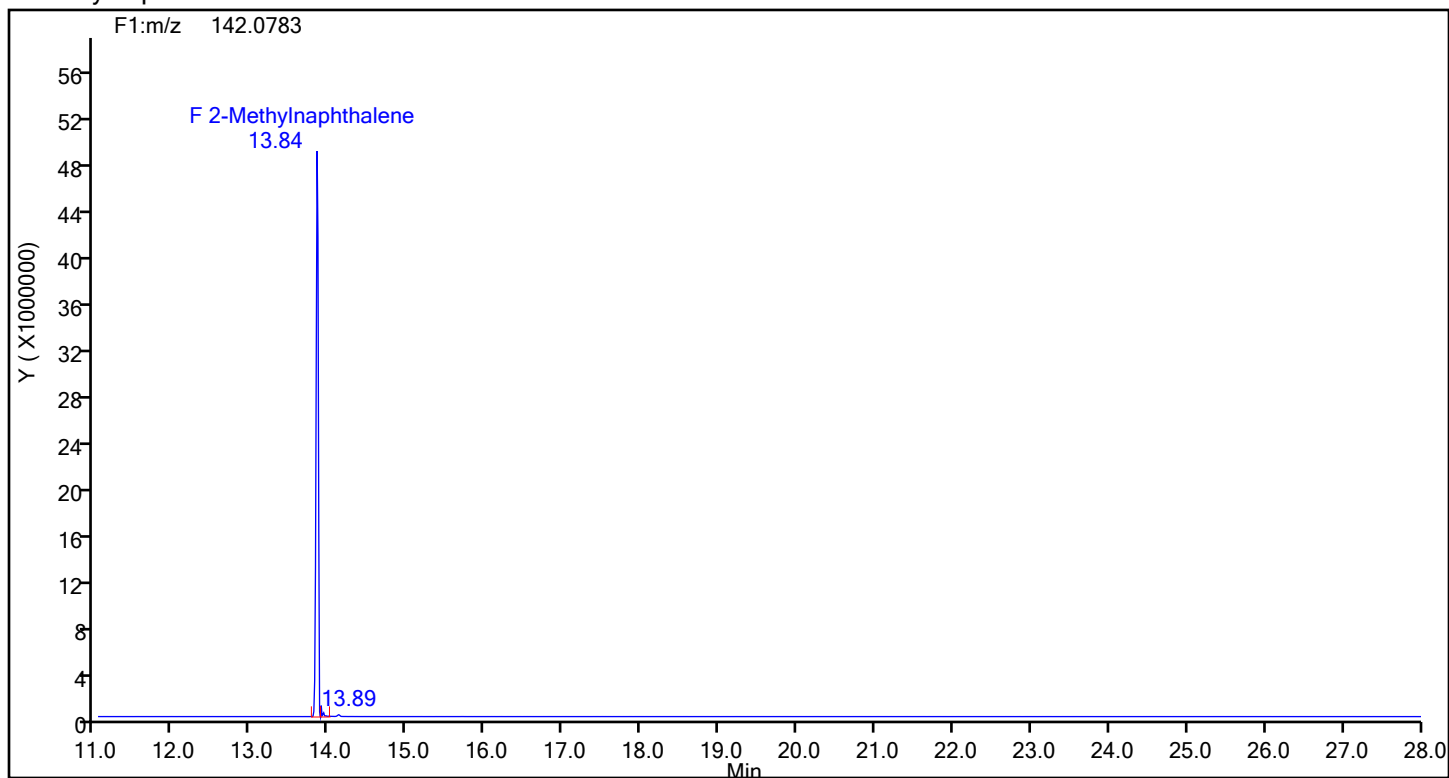
Naphthalene Standards



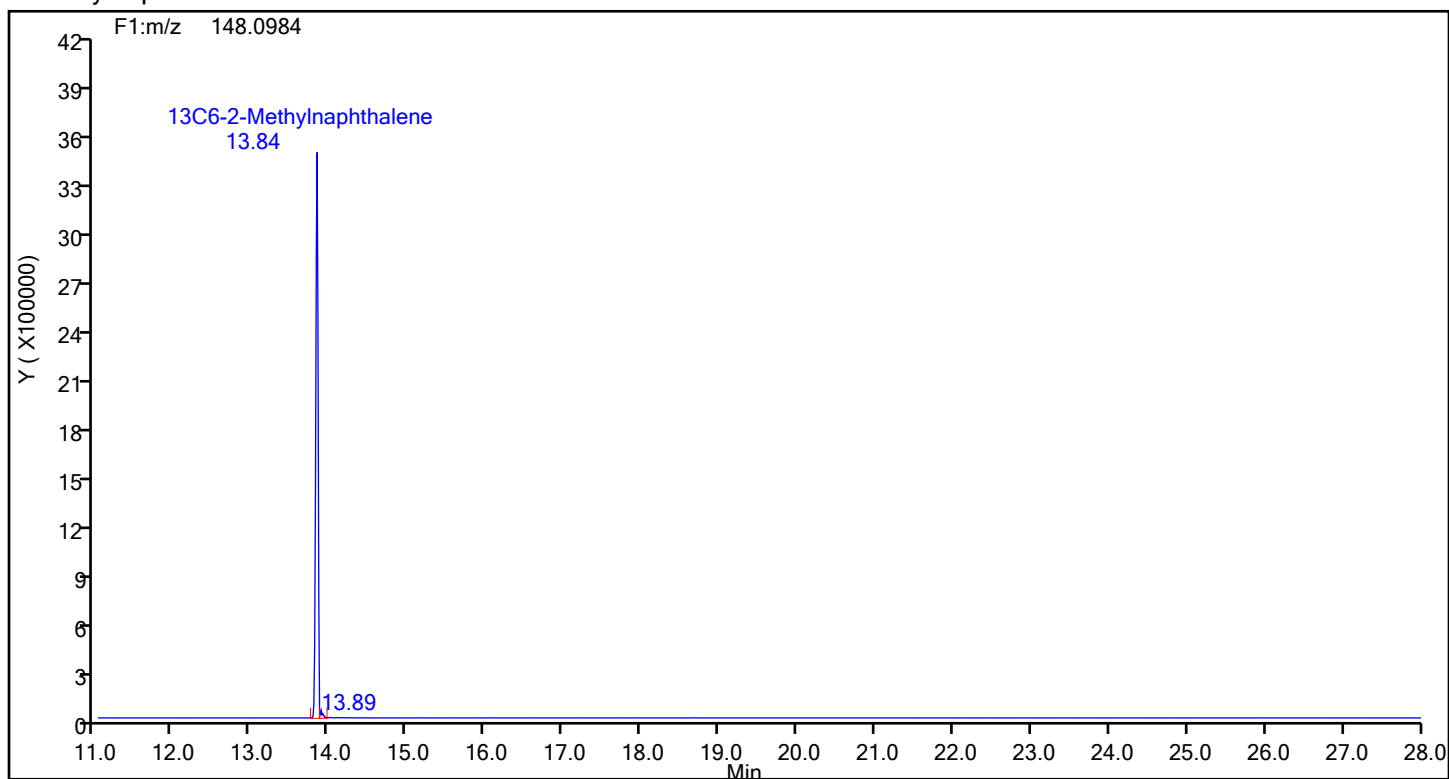
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



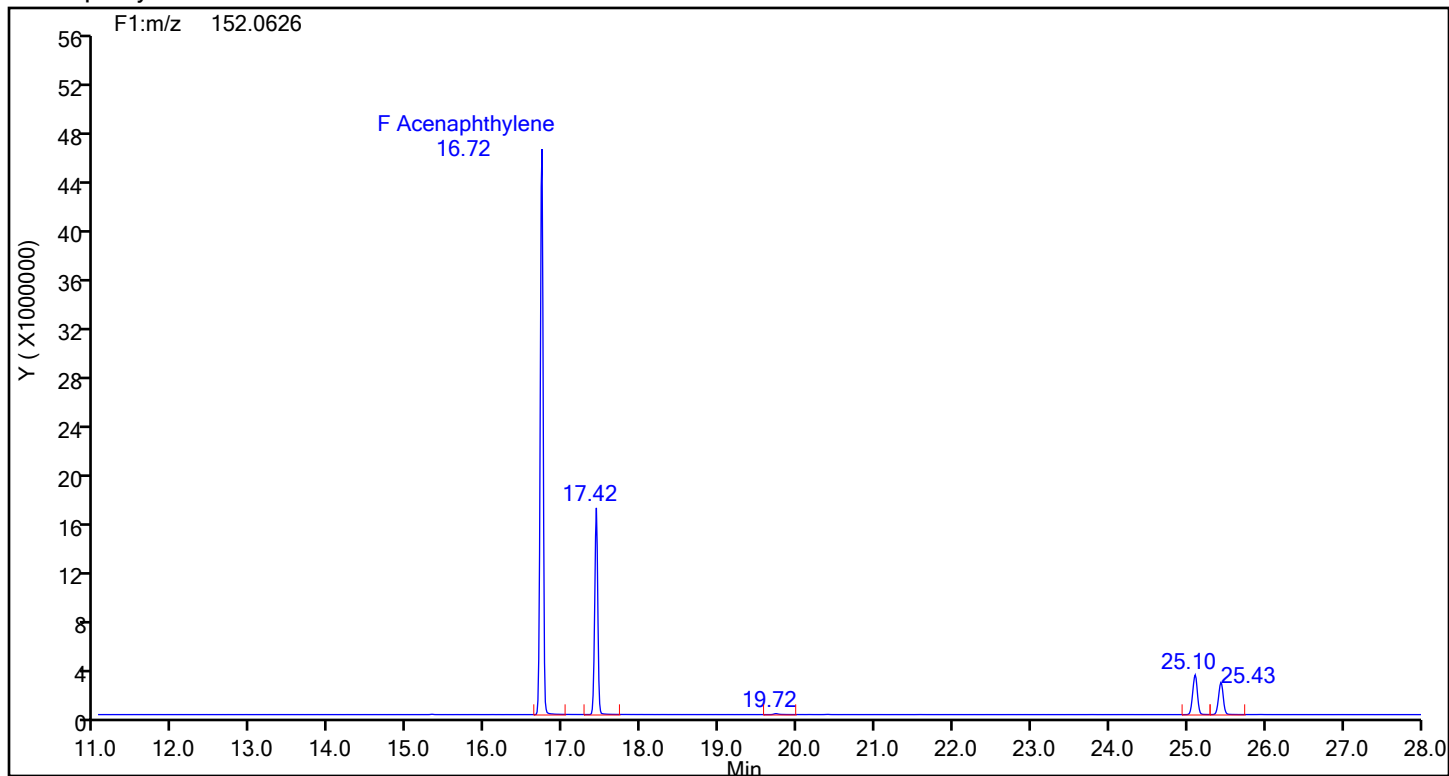
2-Methylnaphthalene Standards



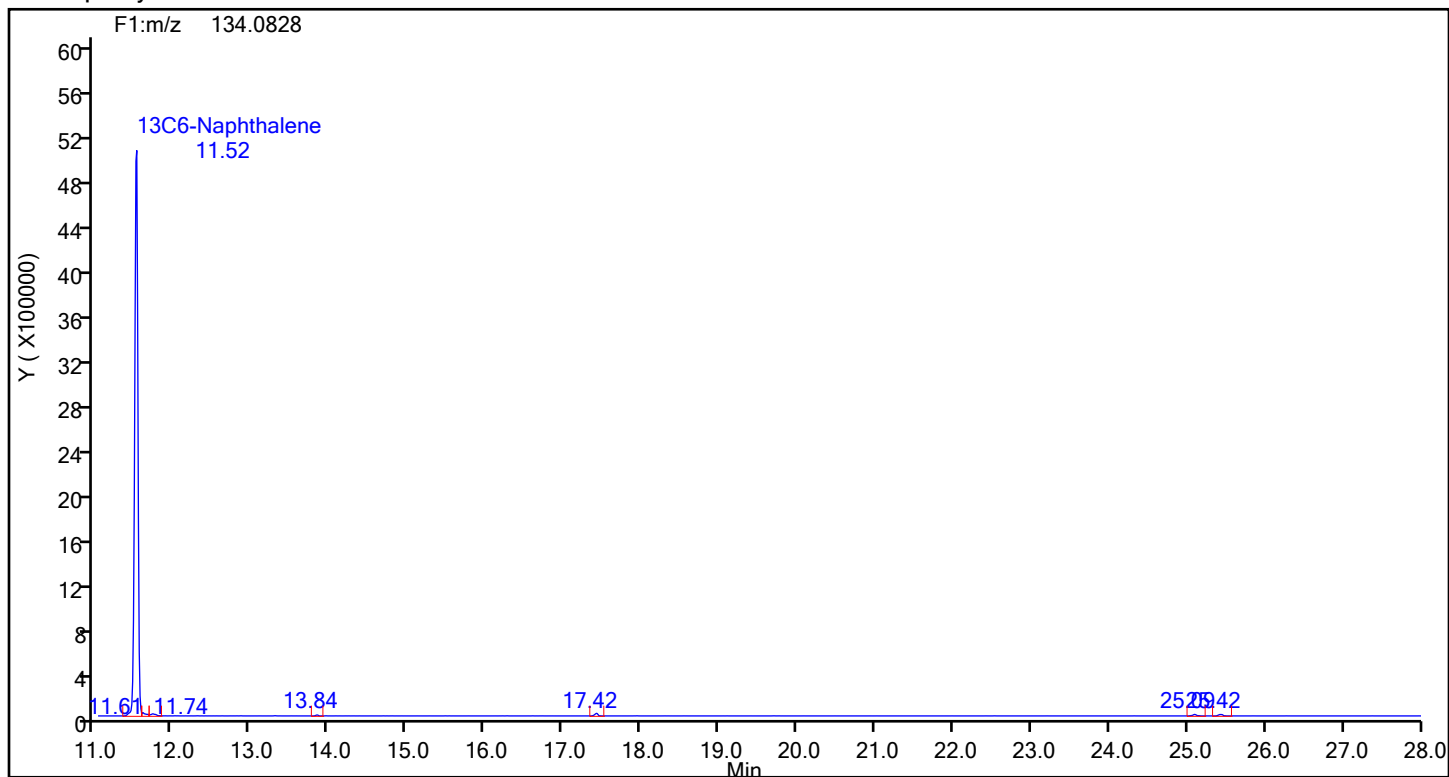
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Client ID:
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Acenaphthylene



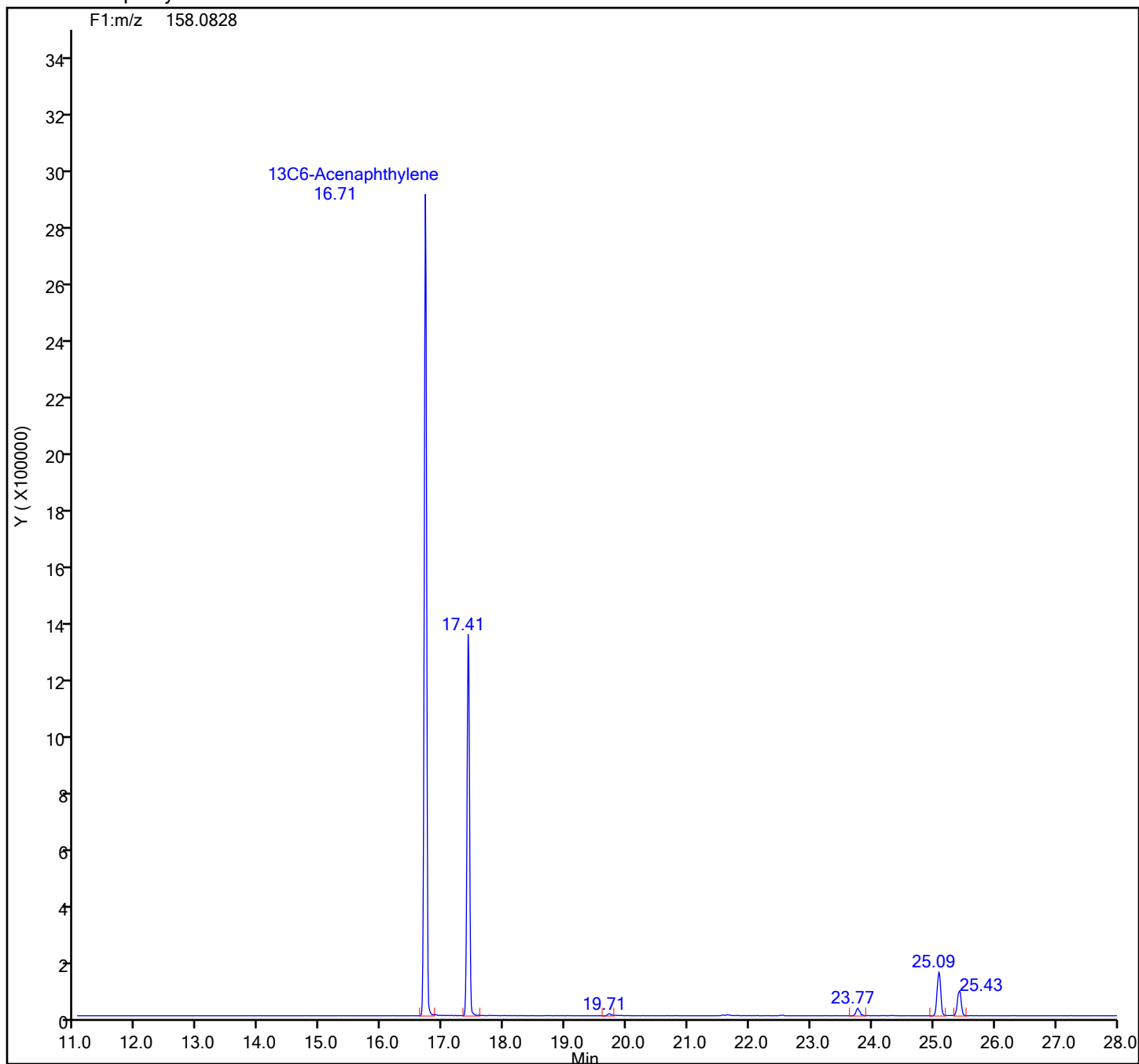
Acenaphthylene Standards



Eurofins Knoxville

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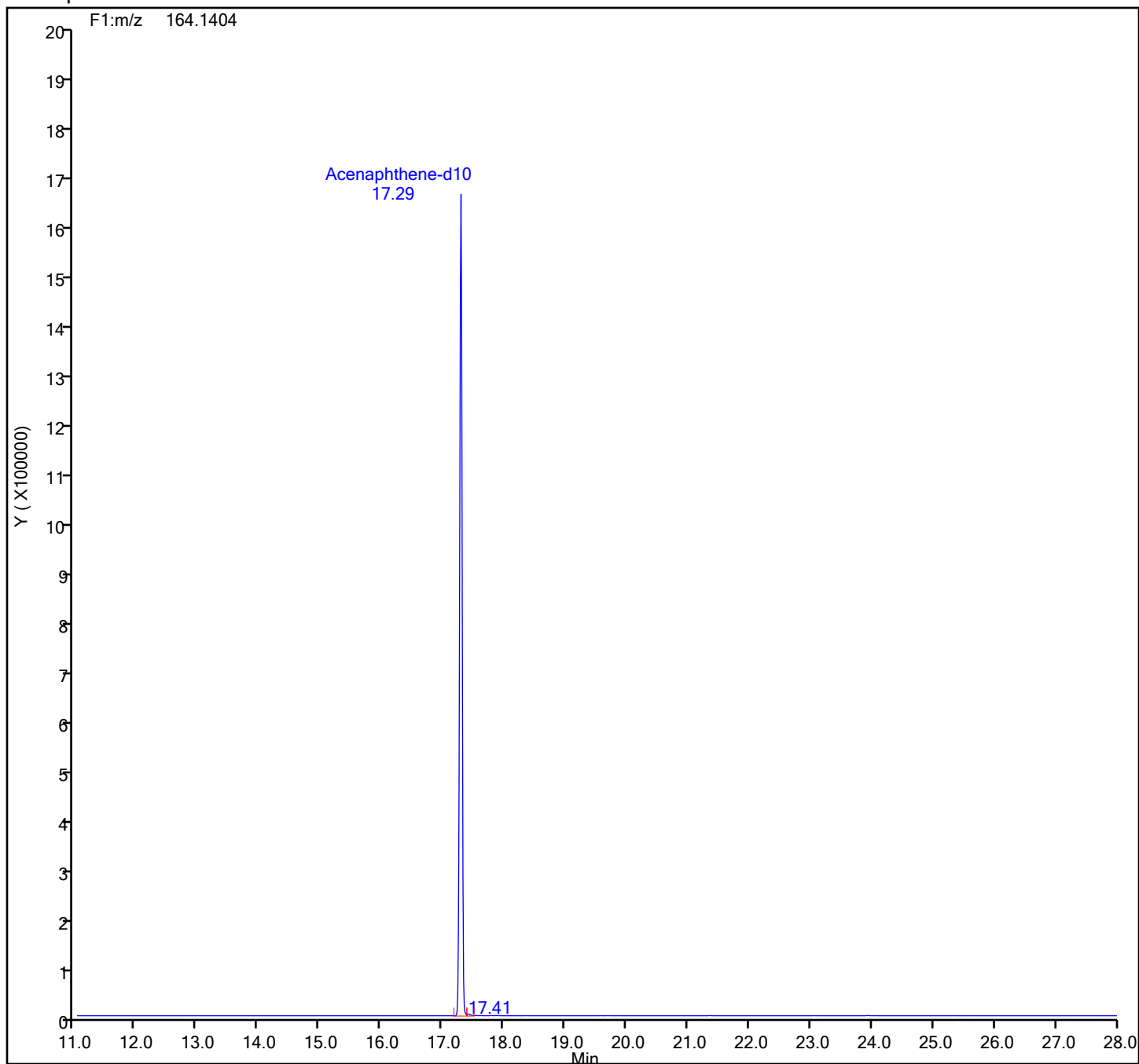
13C6-Acenaphthylene Standards



Eurofins Knoxville

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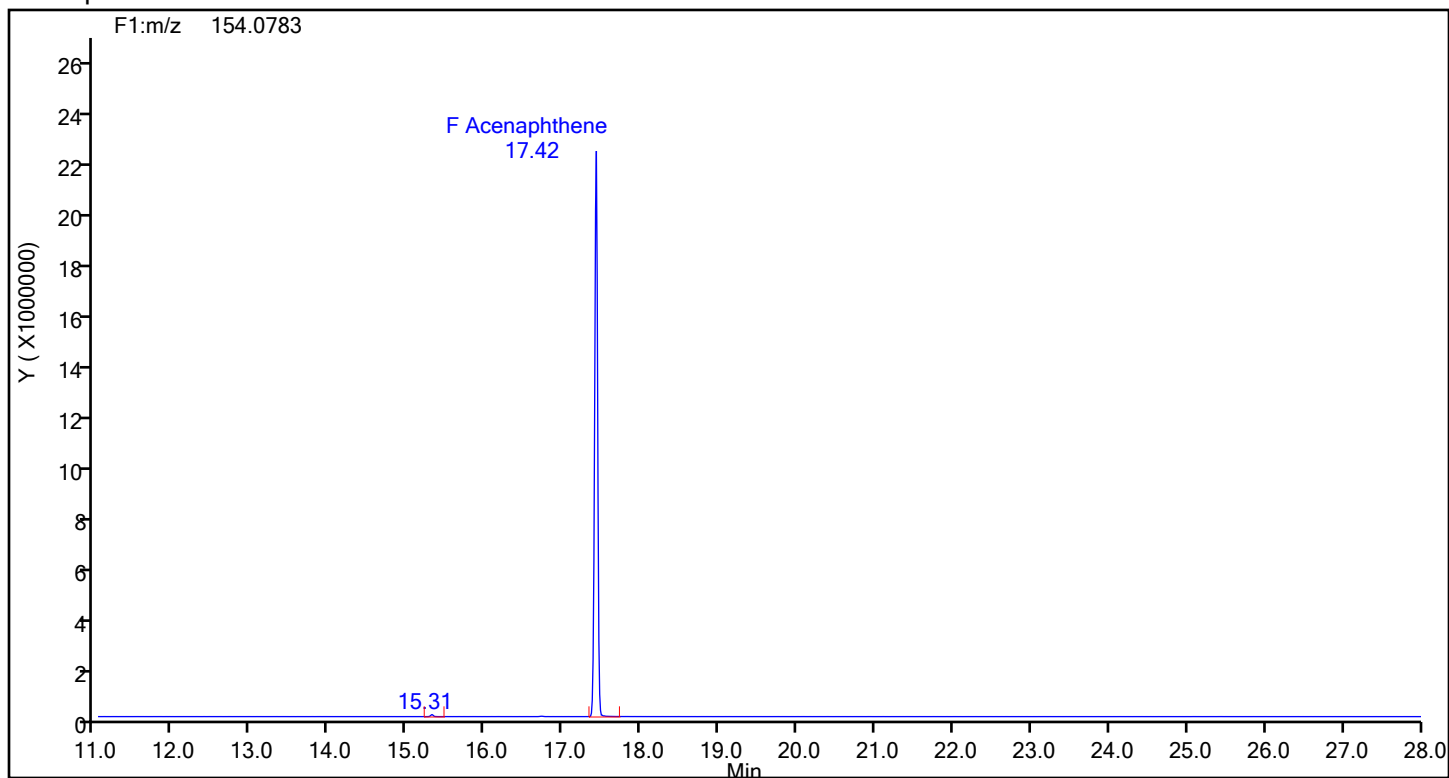
Acenaphthene-d10 Standards



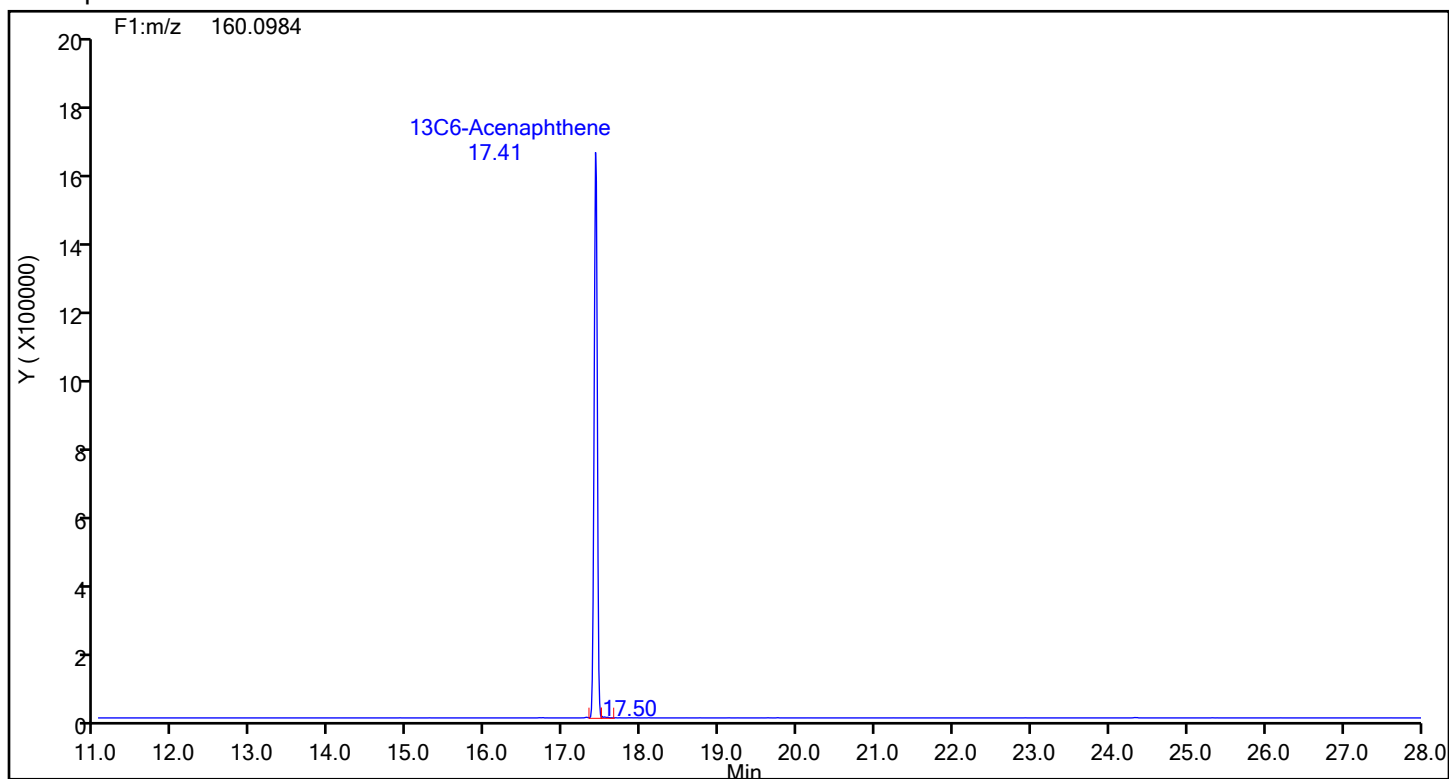
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Acenaphthene



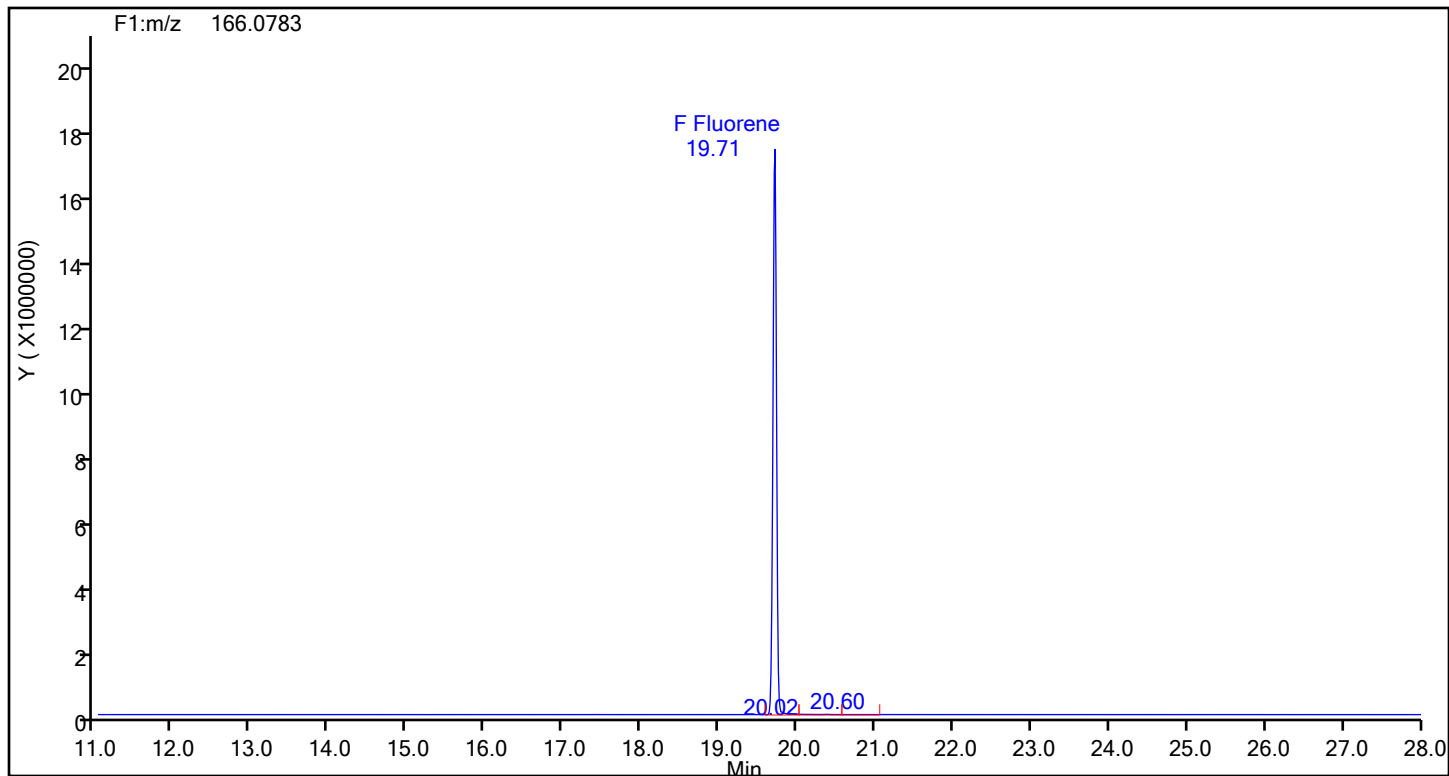
Acenaphthene Standards



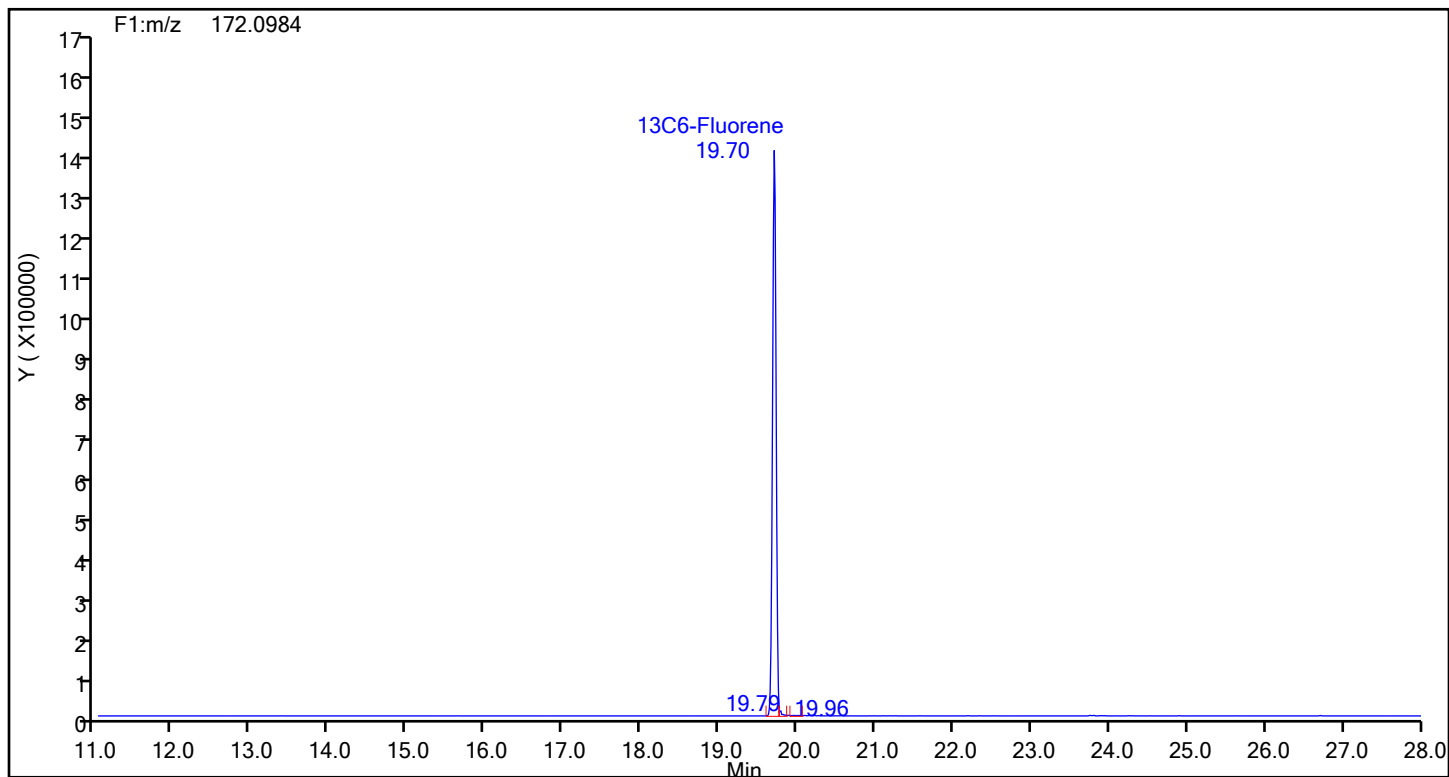
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Fluorene



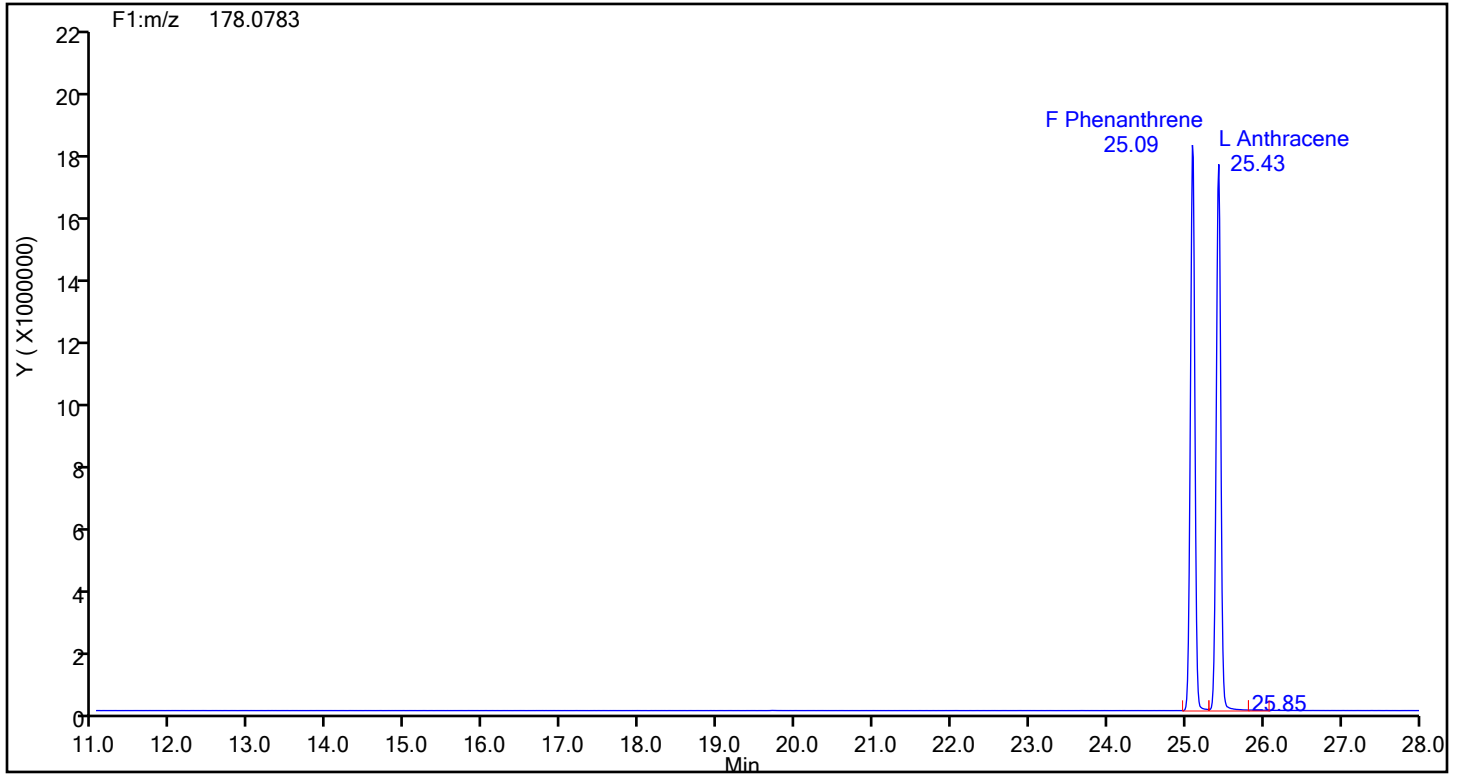
Fluorene Standards



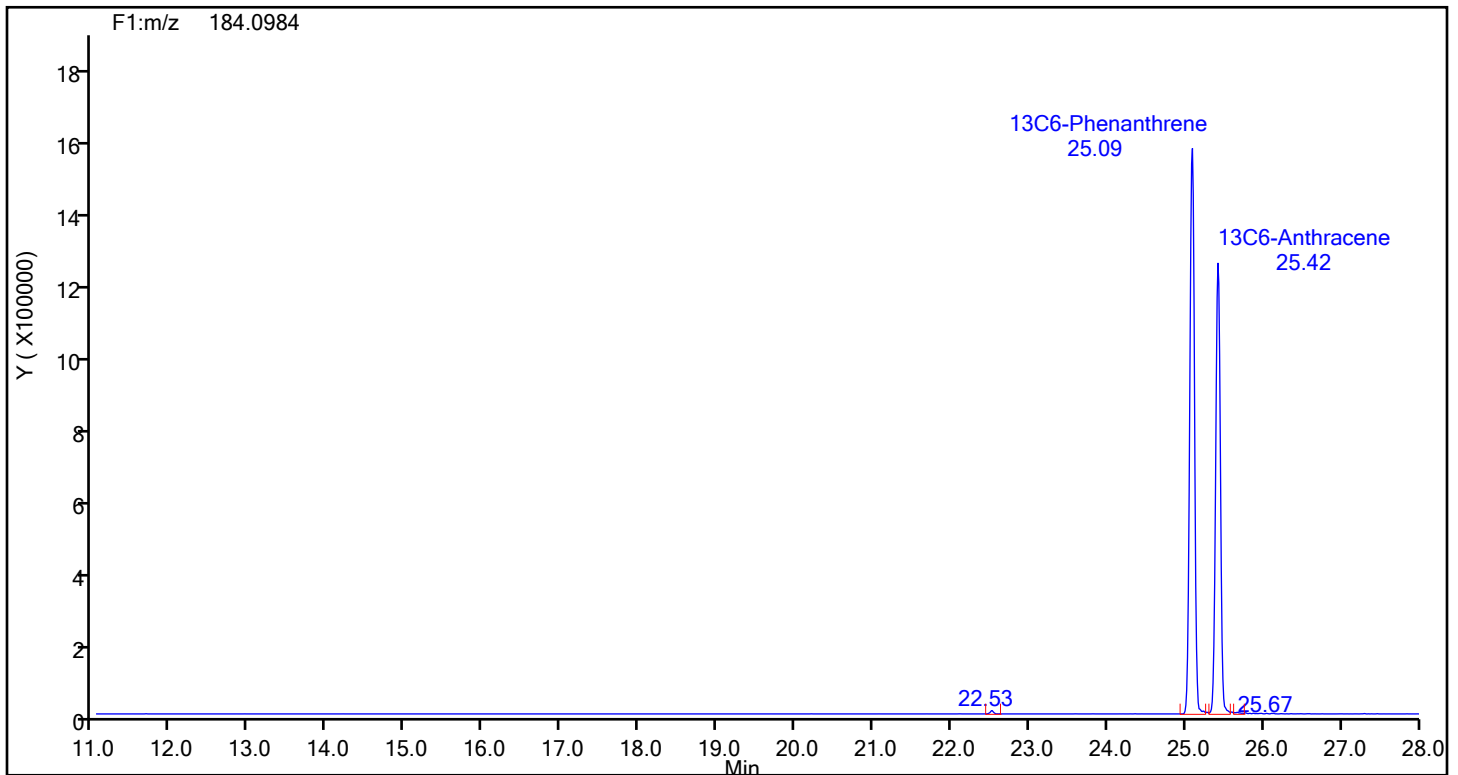
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Phenanthrene

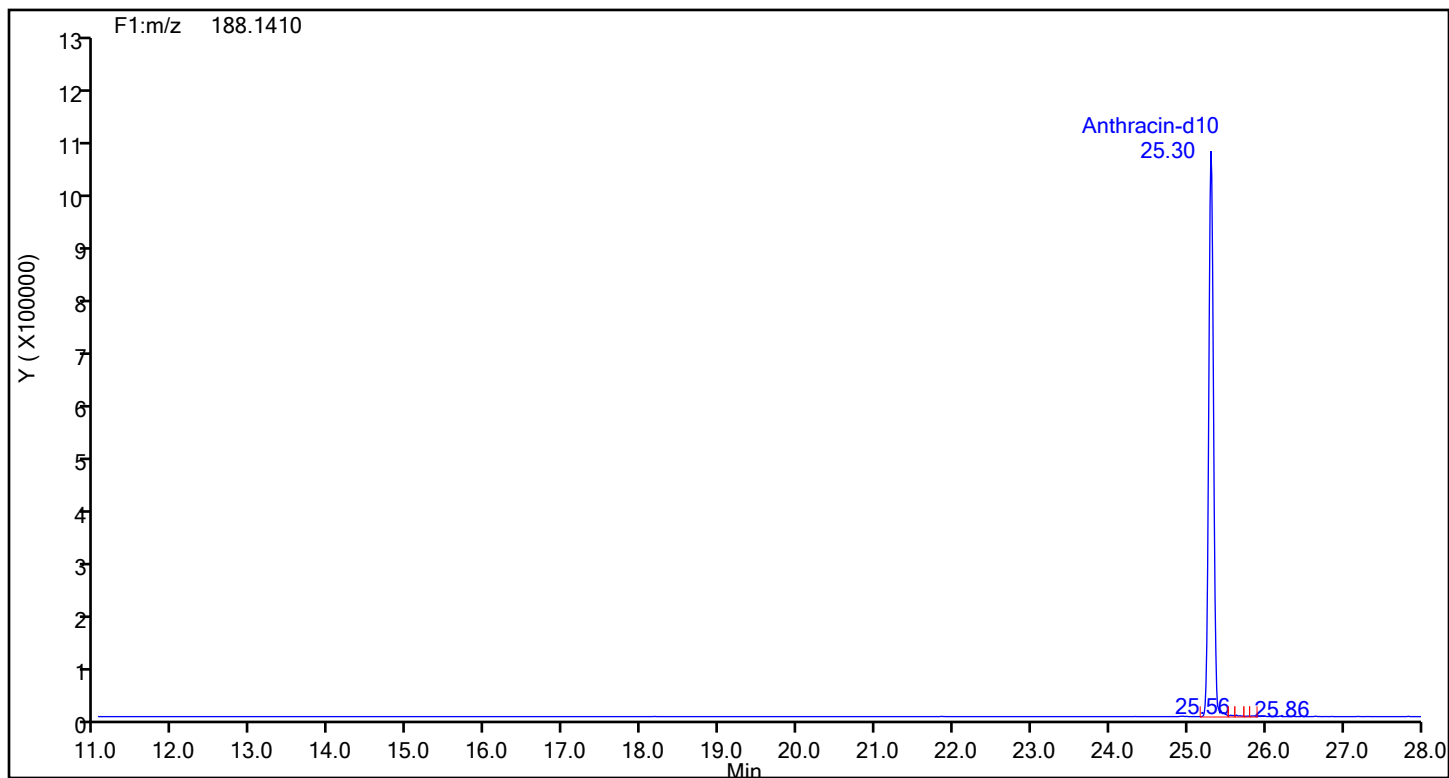


Phenanthrene Standards

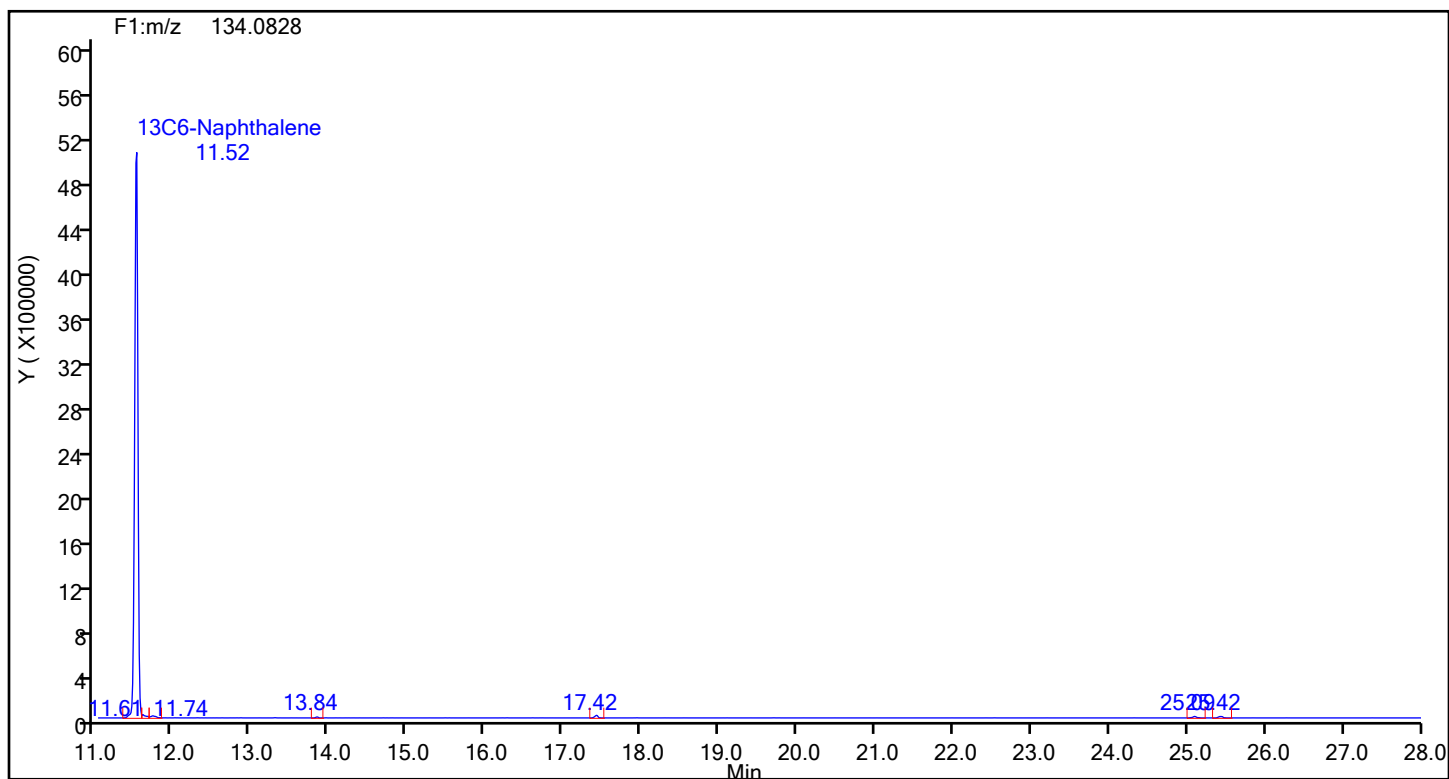


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Anthracin-d10

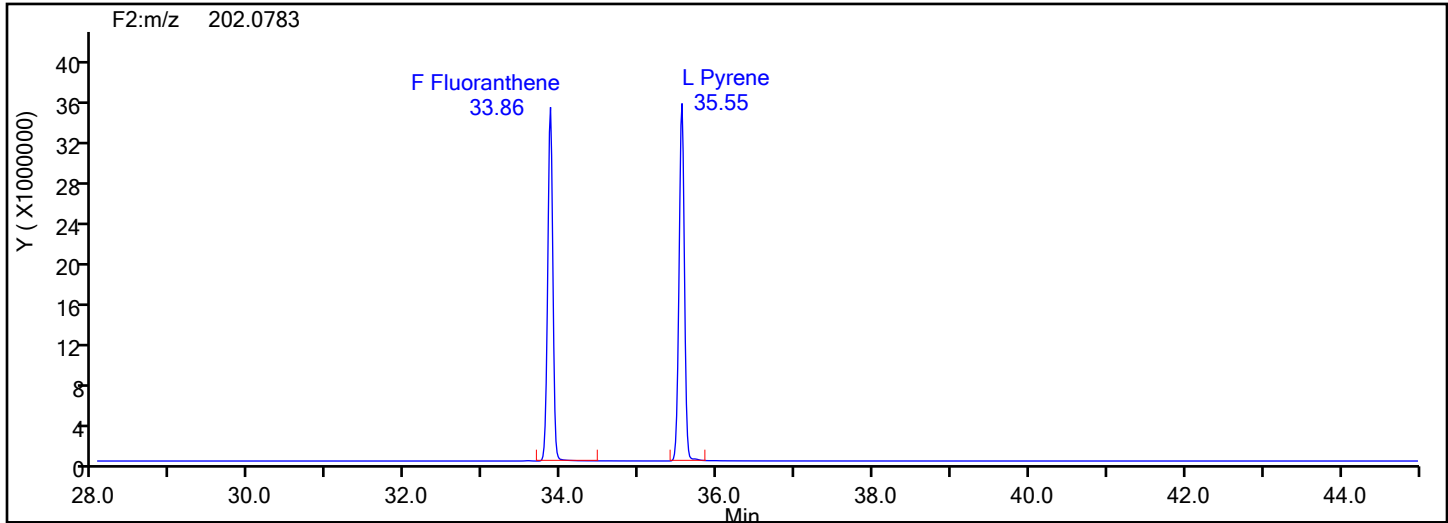


Anthracin-d10 Standards

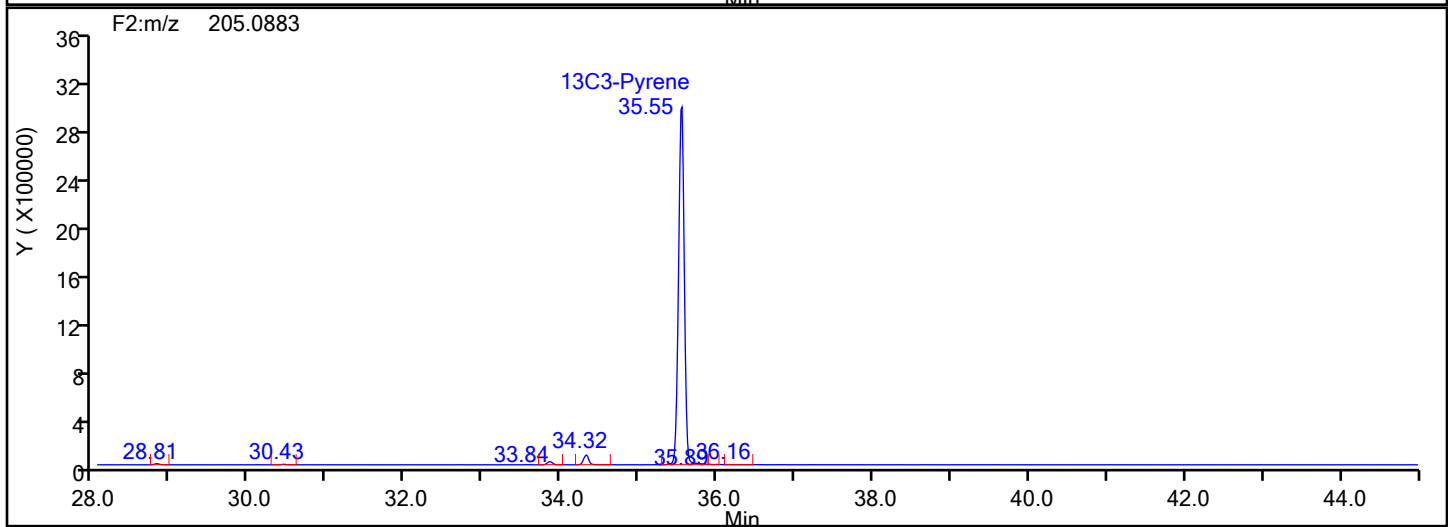
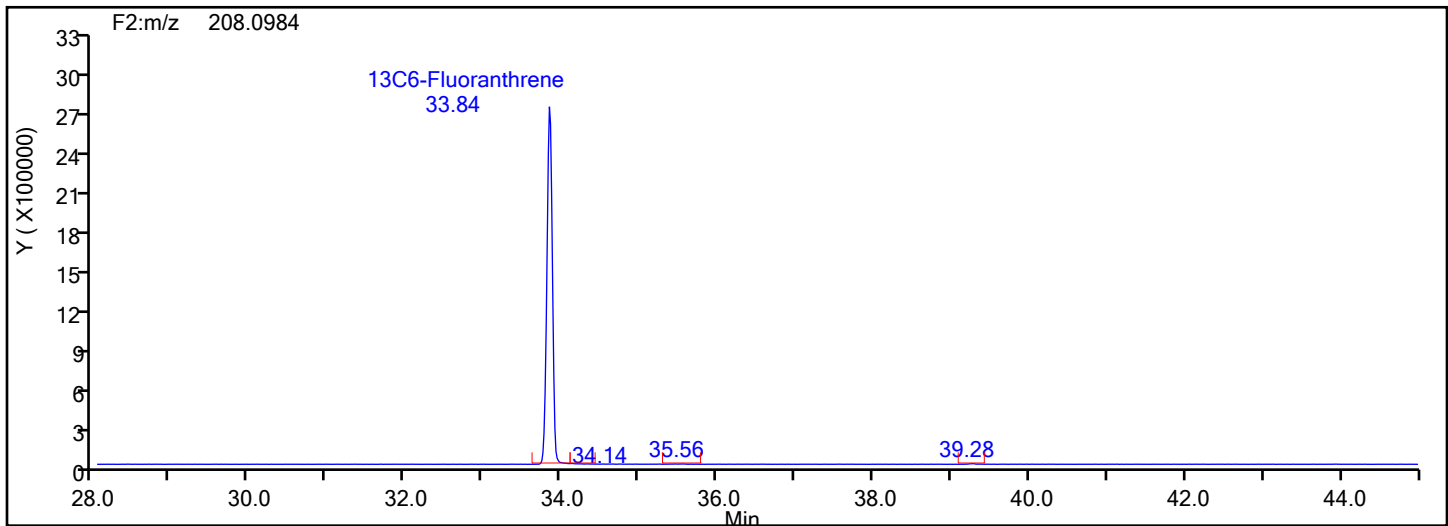


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Fluoranthene



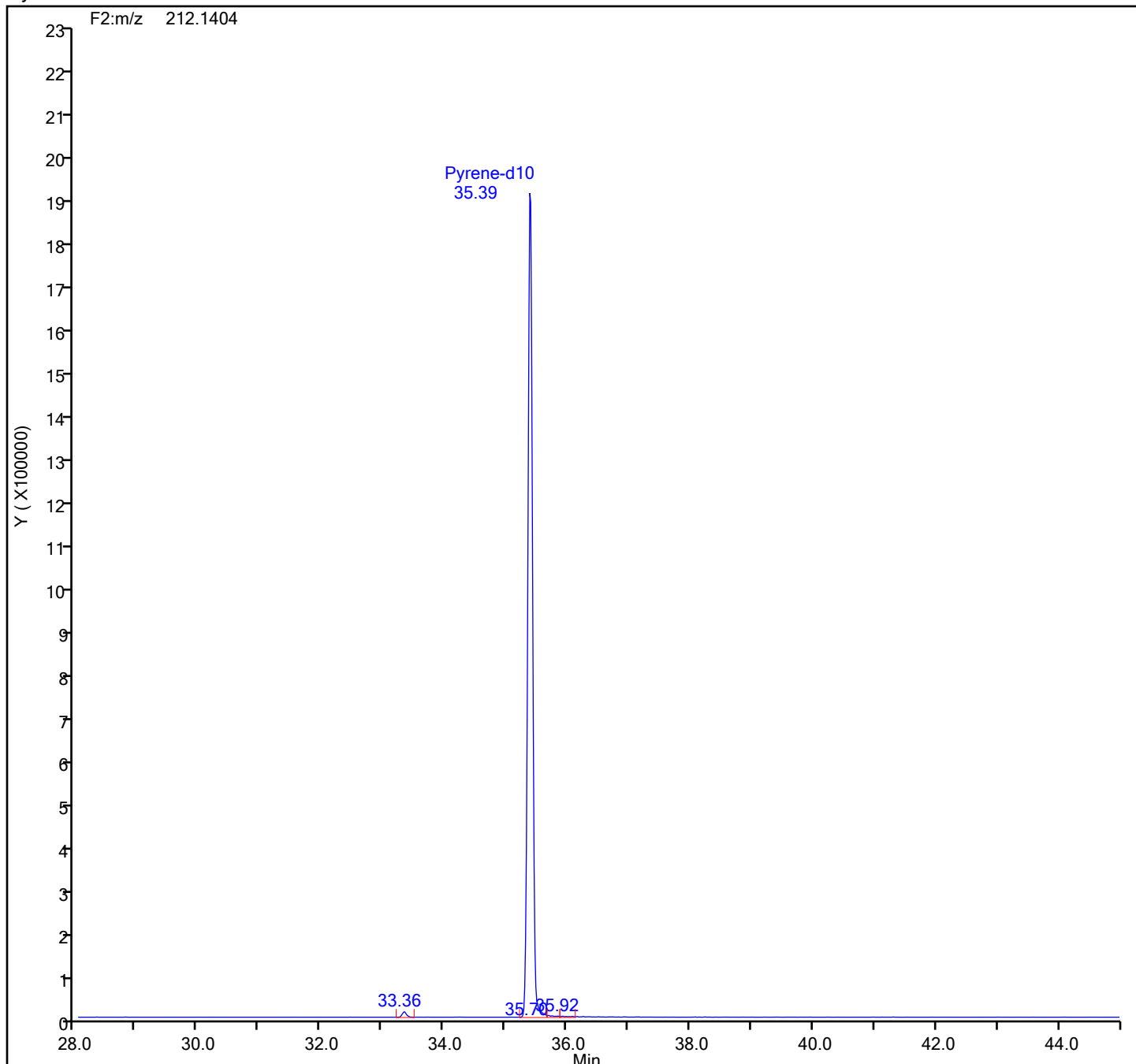
Fluoranthene Standards



Eurofins Knoxville

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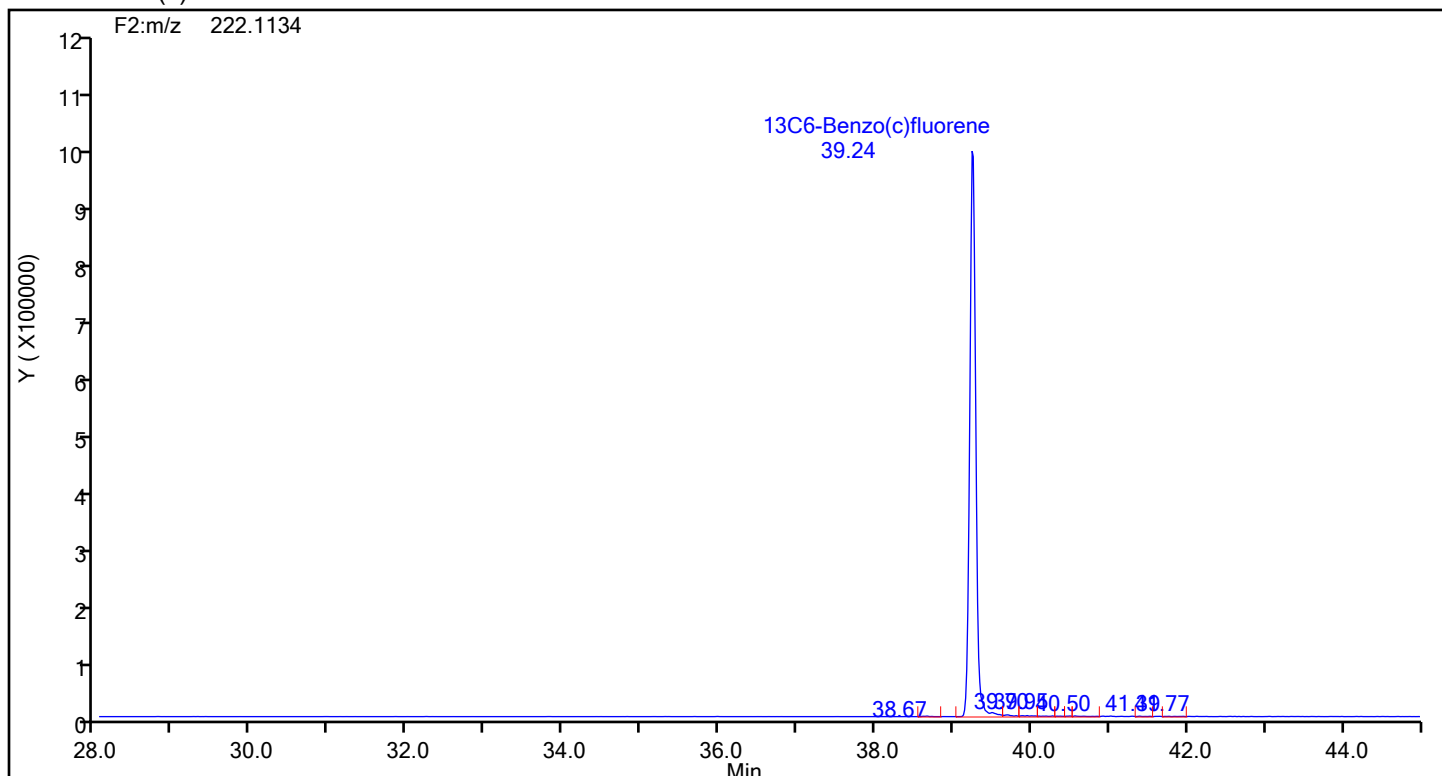
Pyrene-d10 Standards



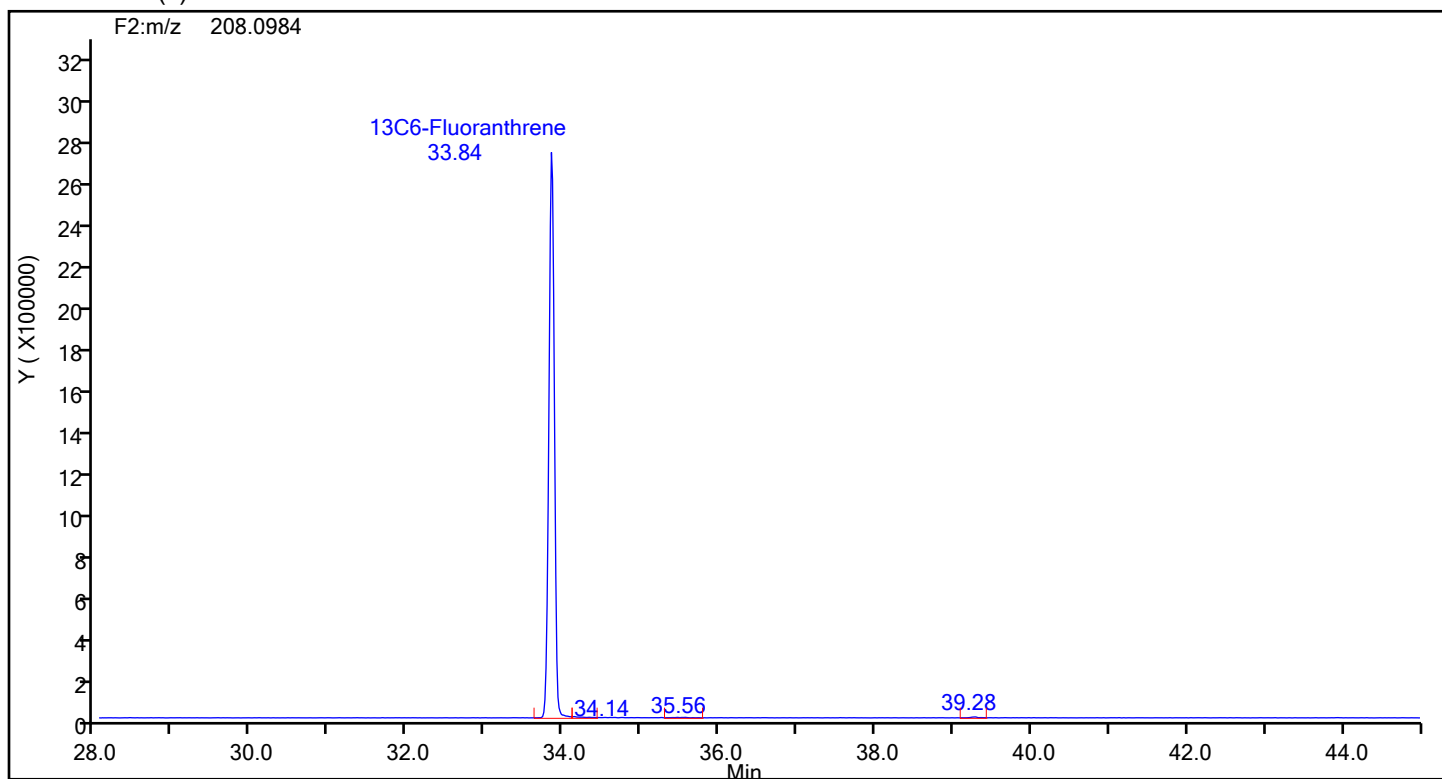
Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



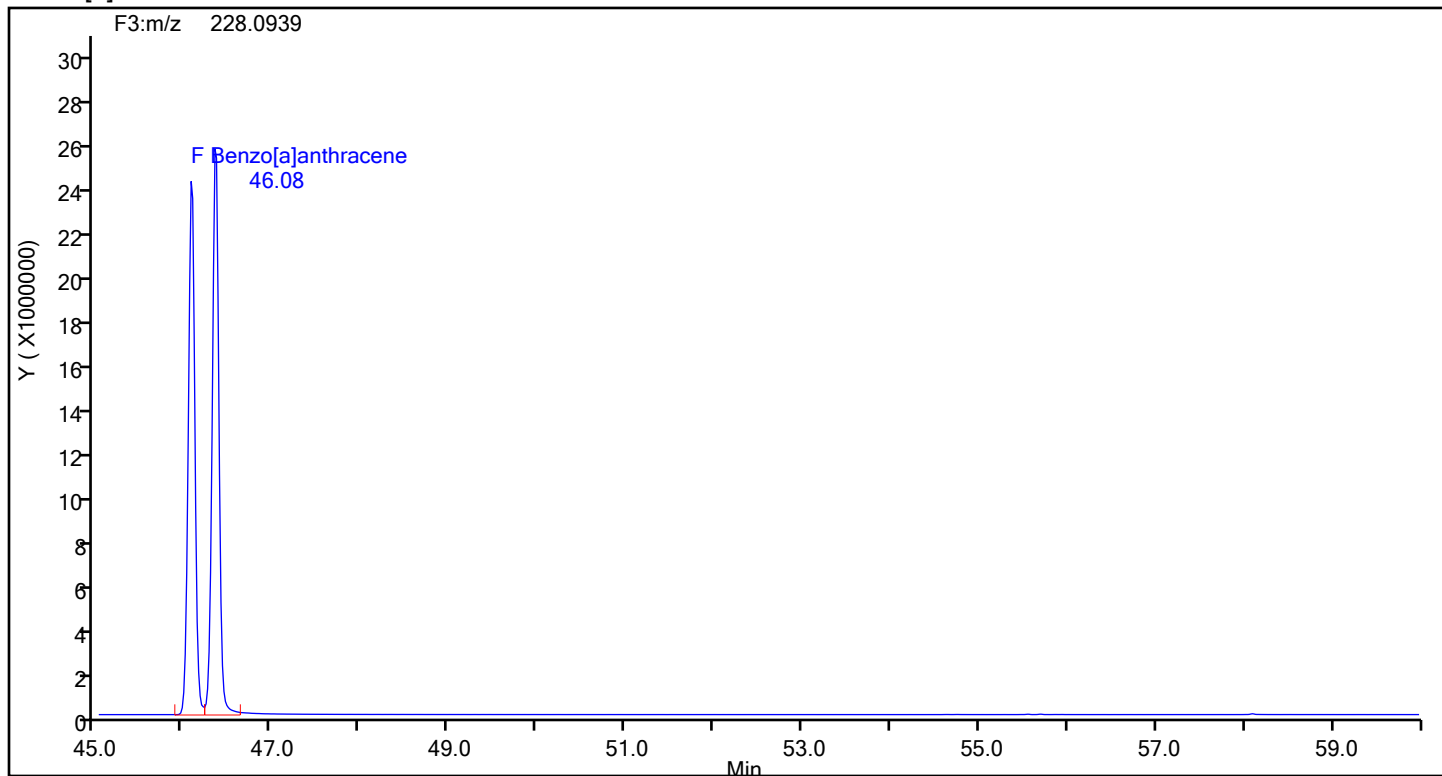
13C6-Benzo(c)fluorene Standards



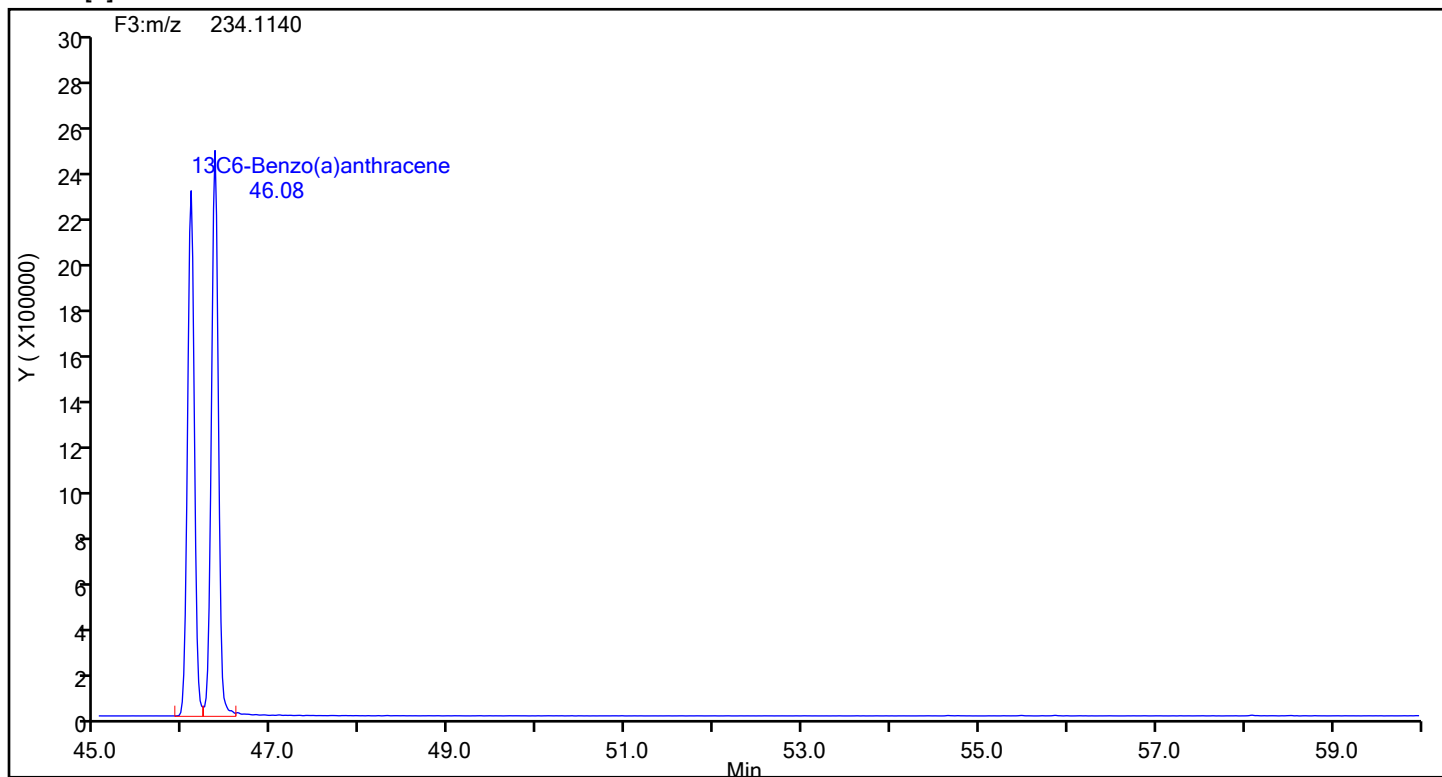
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



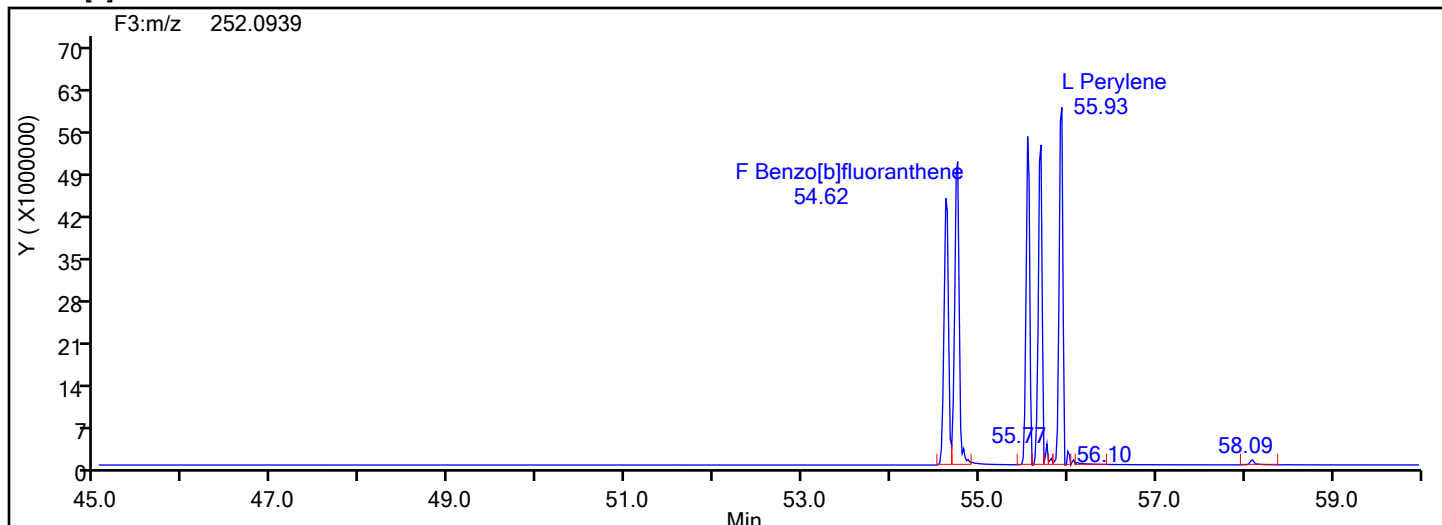
Benzo[a]anthracene Standards



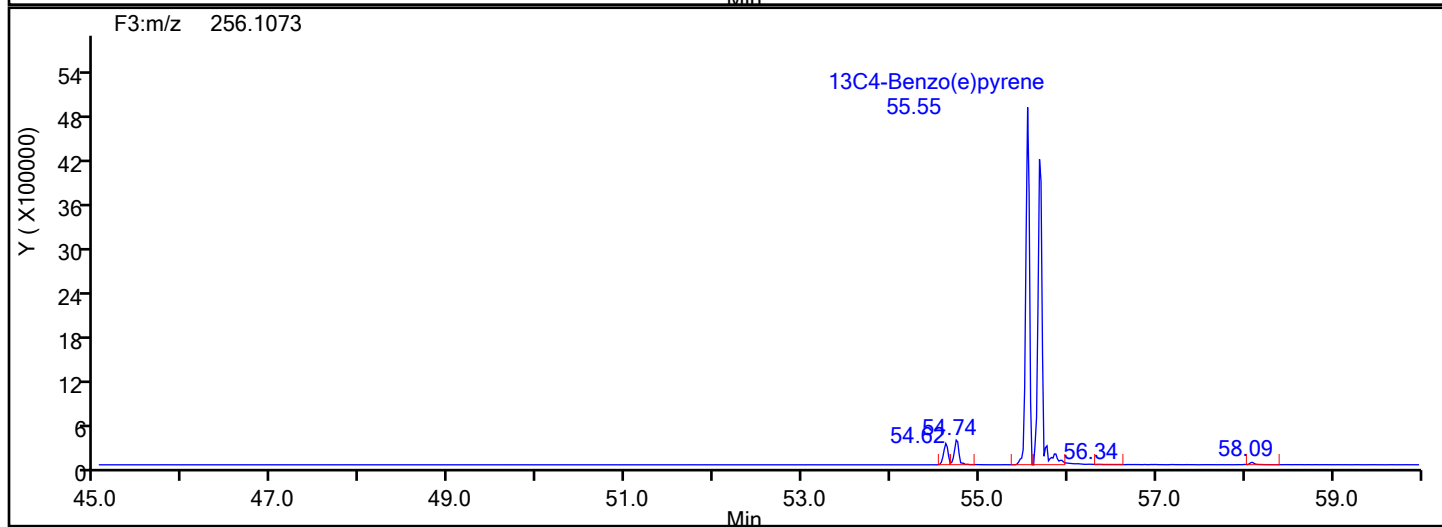
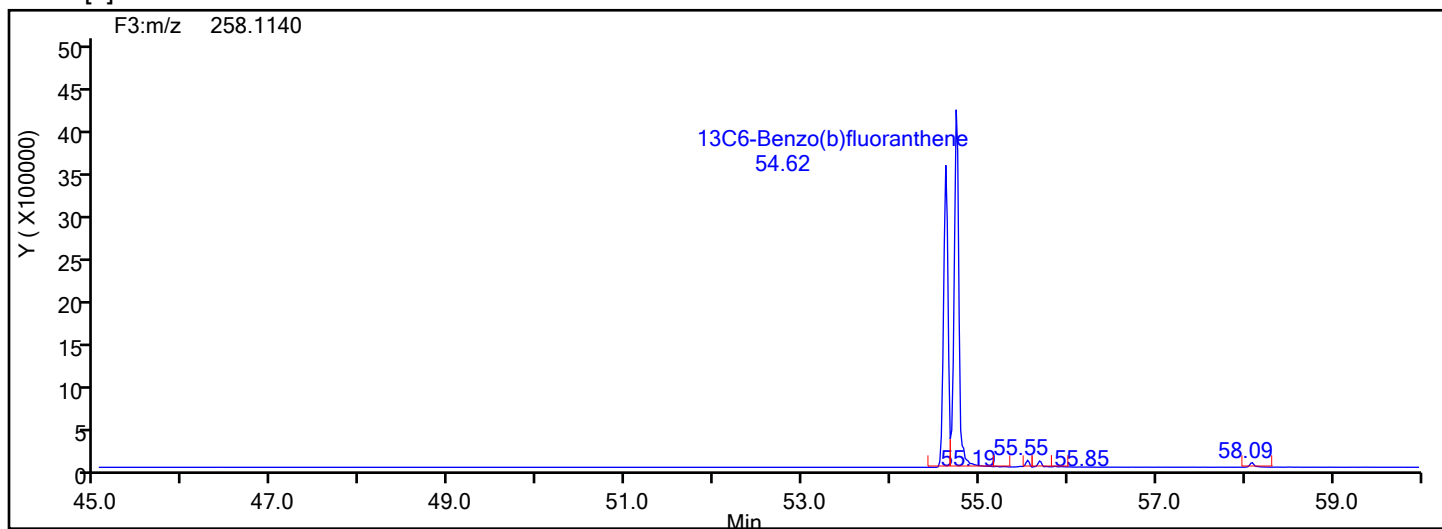
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



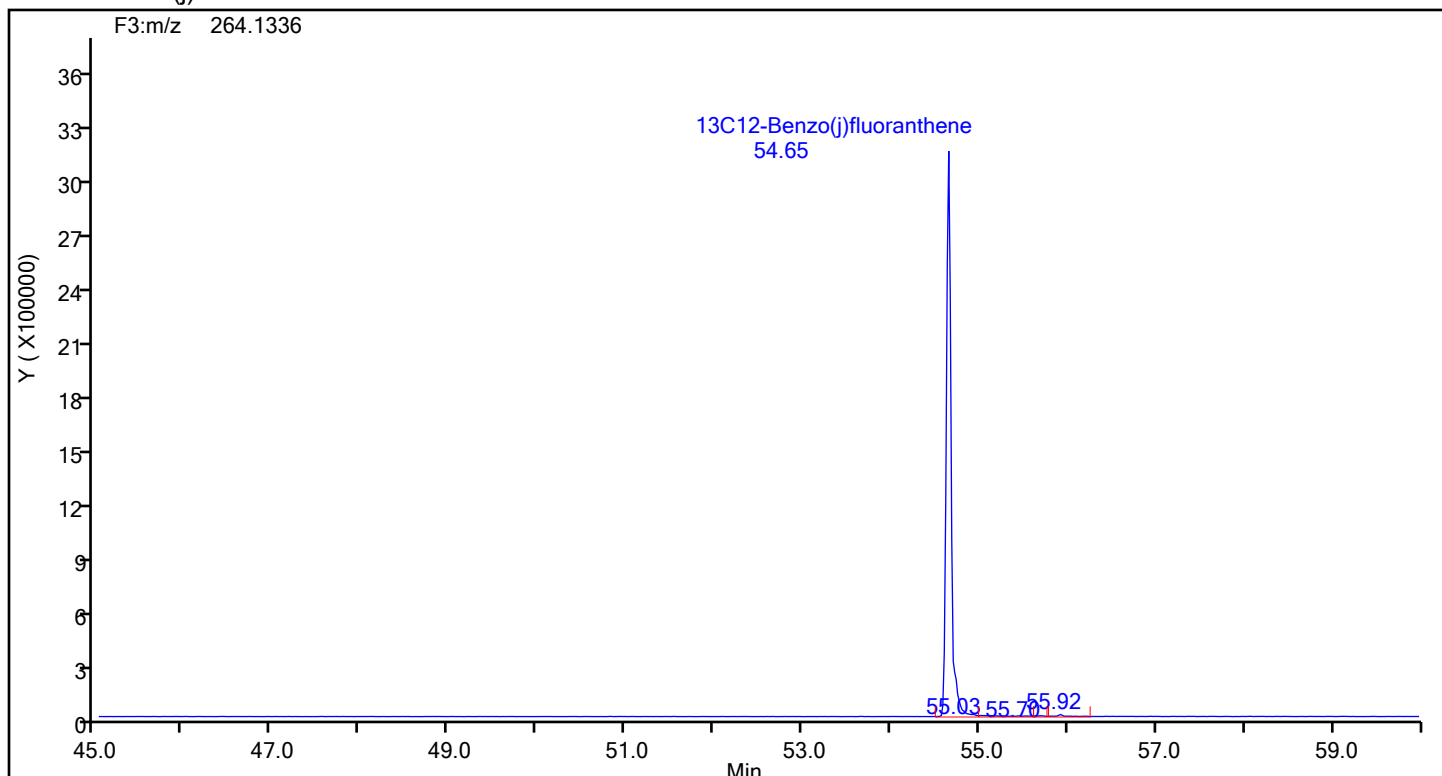
Benzo[b]fluoranthene Standards



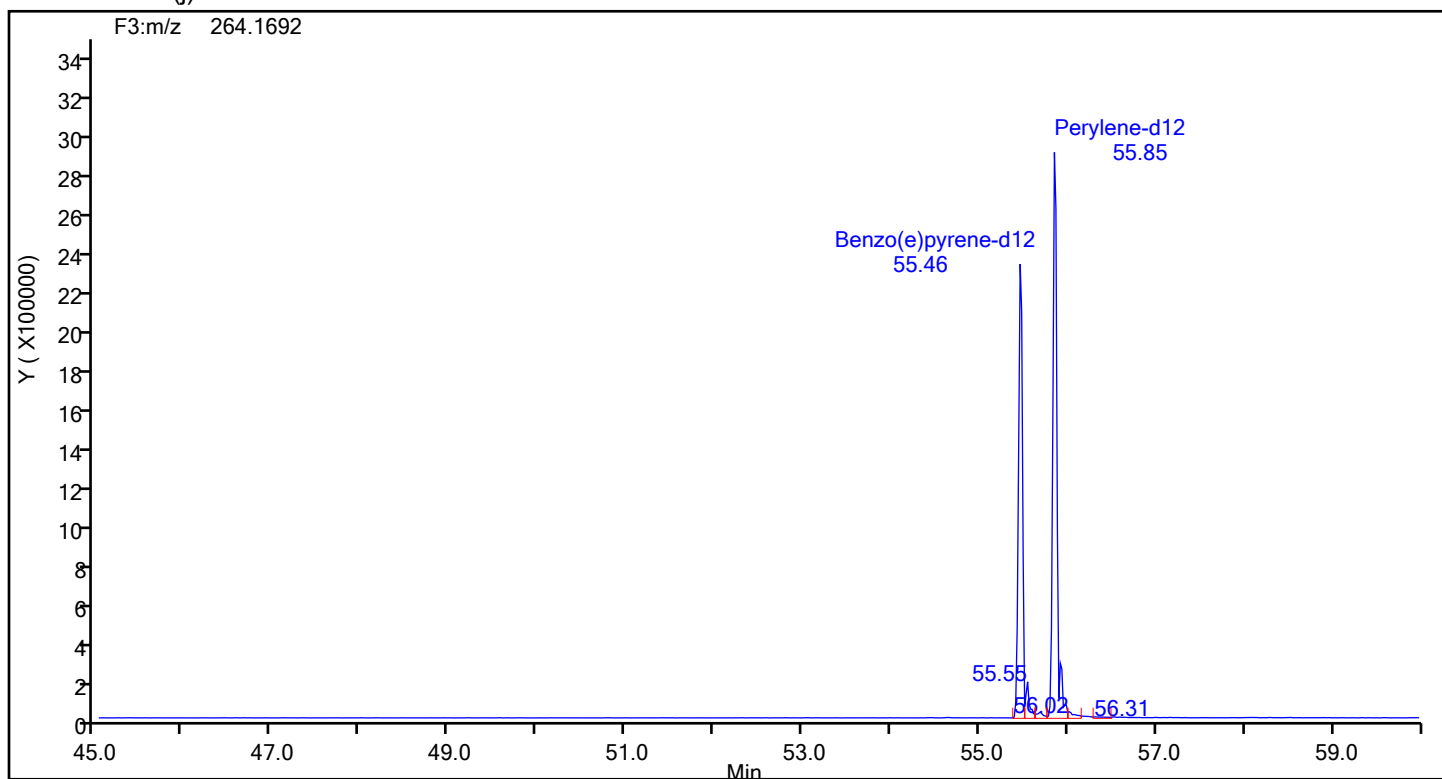
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



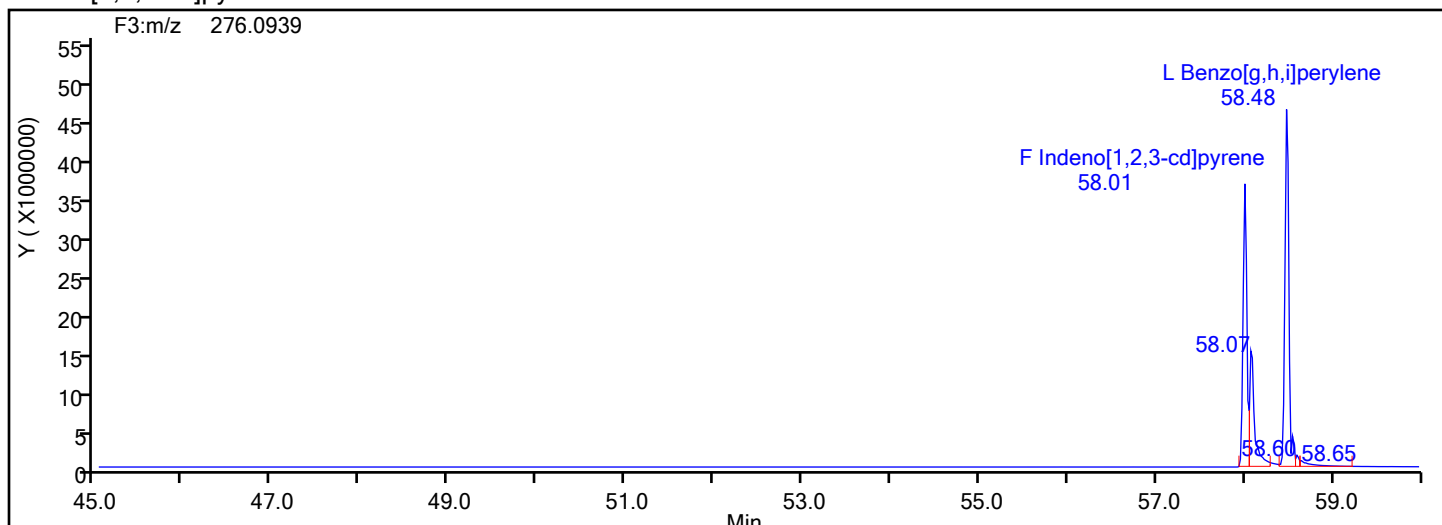
13C12-Benzo(j)fluoranthene Standards



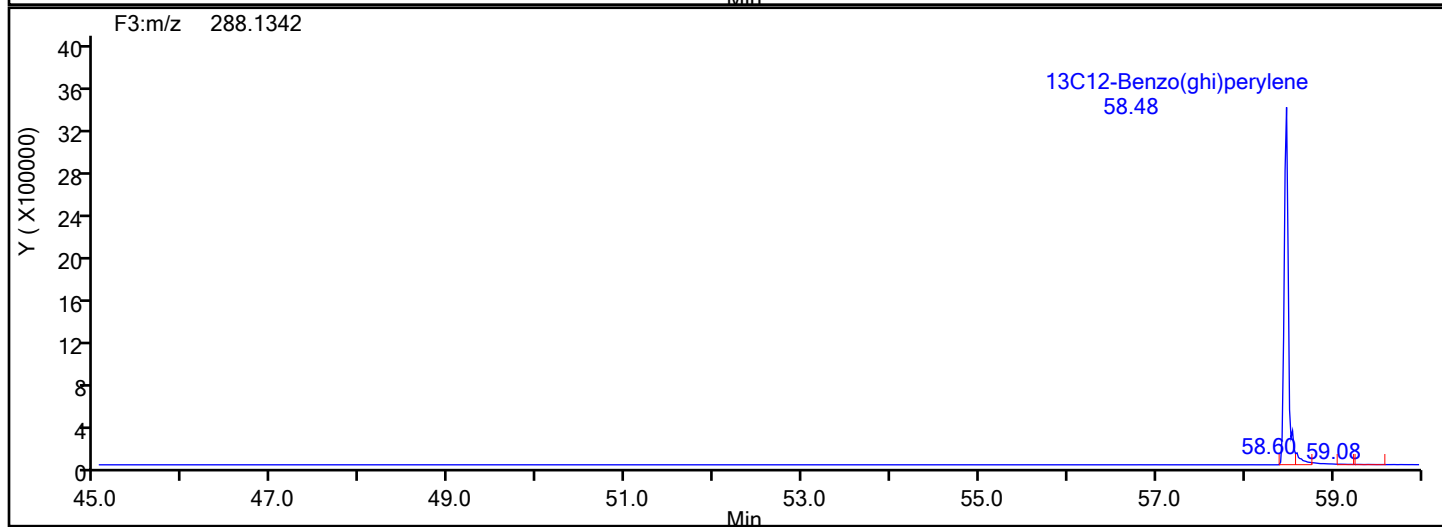
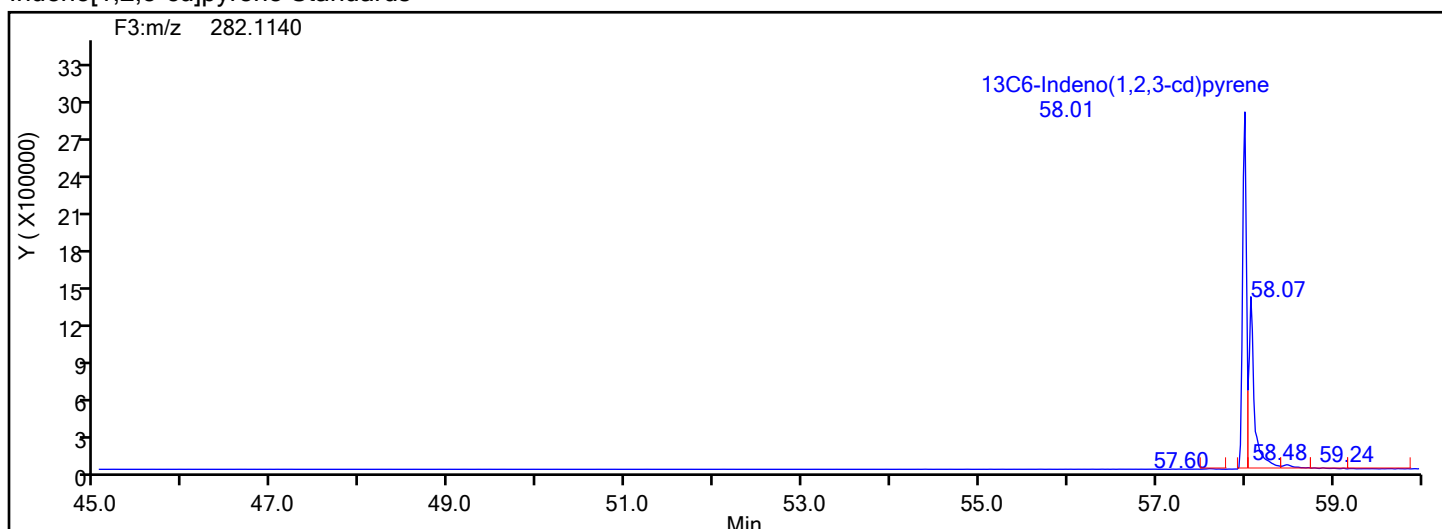
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

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Injection Date: 20-Jun-2024 01:09:00

Instrument ID: D3PAH

Lims ID: IC L9

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Column: Restek-5Sil MS 25um (0.25 mm)

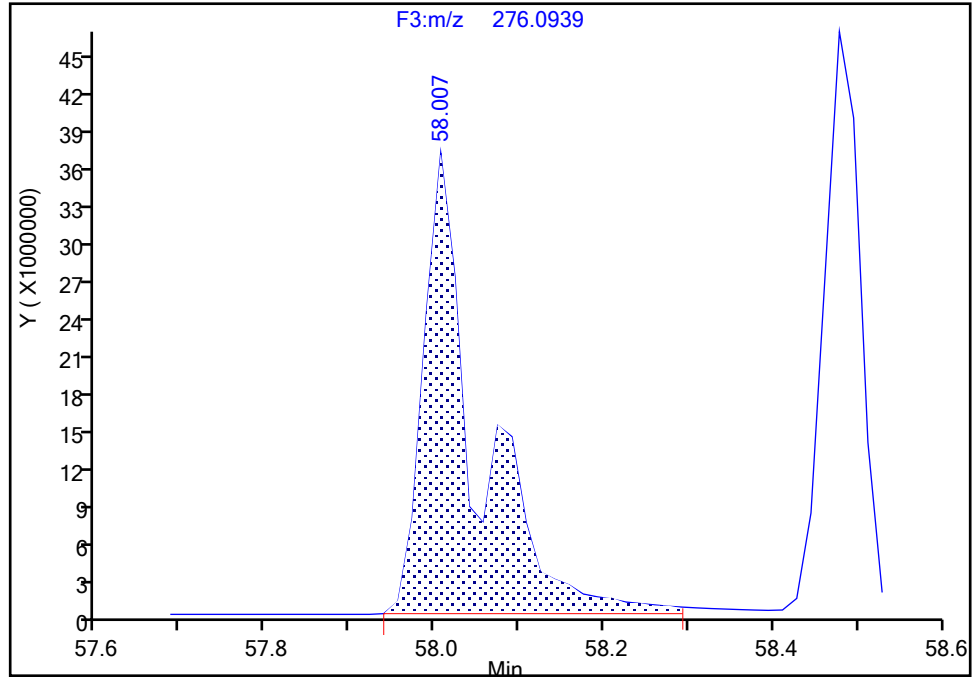
Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

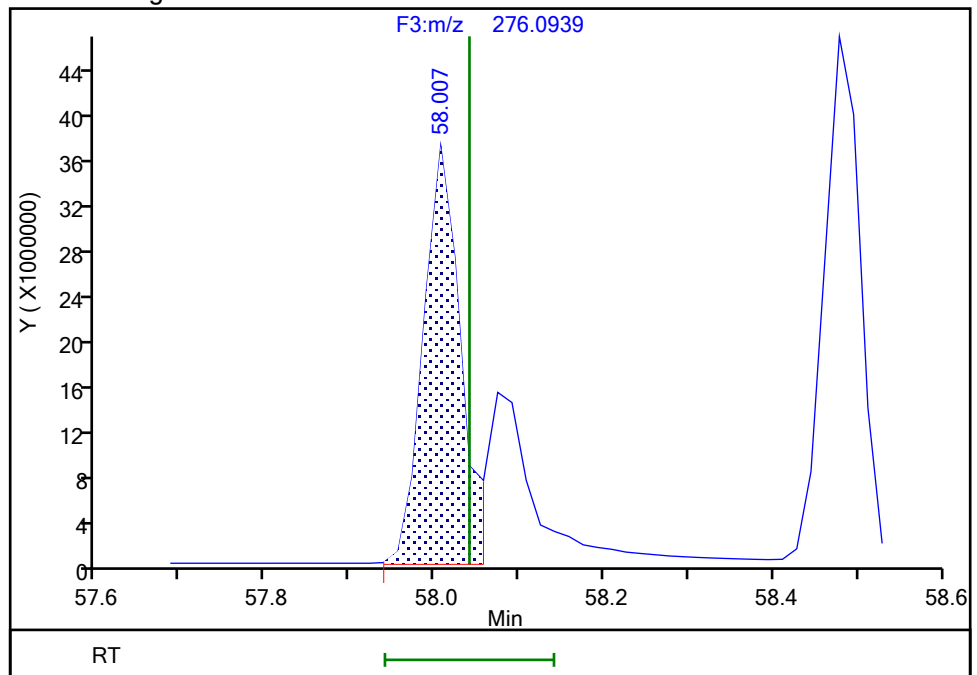
RT: 58.01
Area: 166292178
Amount: 1593.7458
Amount Units: pg/ul

Processing Integration Results



RT: 58.01
Area: 113067905
Amount: 1170.6590
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

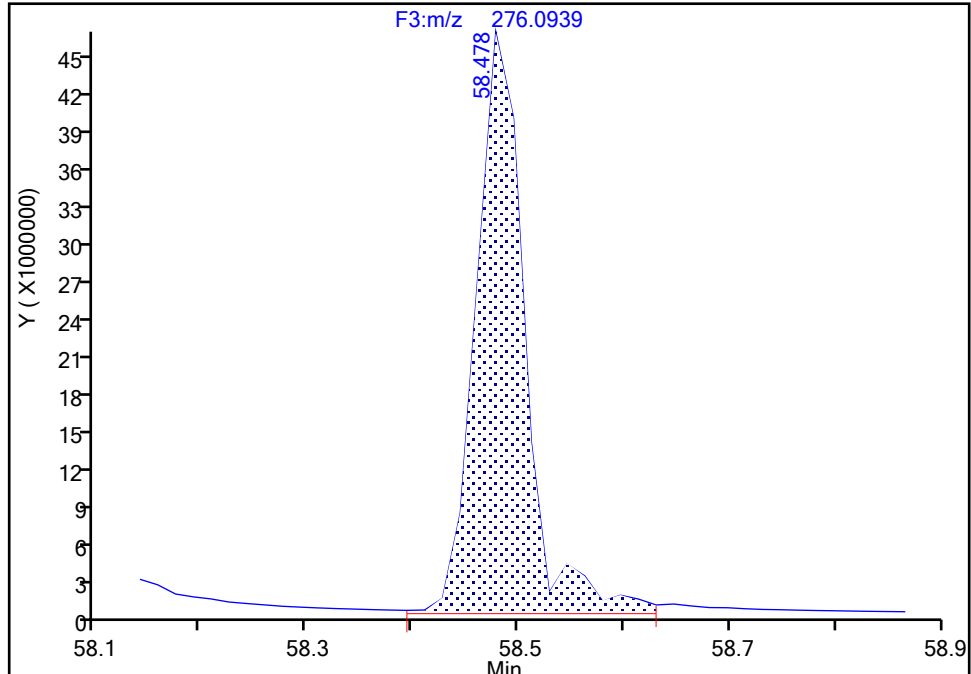
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

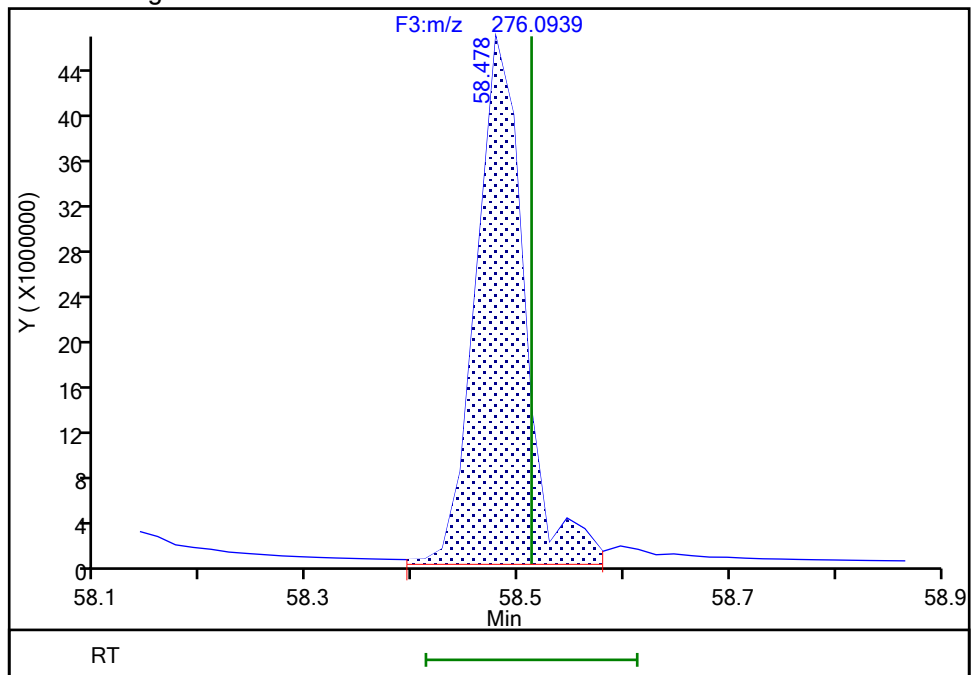
RT: 58.48
Area: 150426172
Amount: 1058.6613
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 147488032
Amount: 1040.3738
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

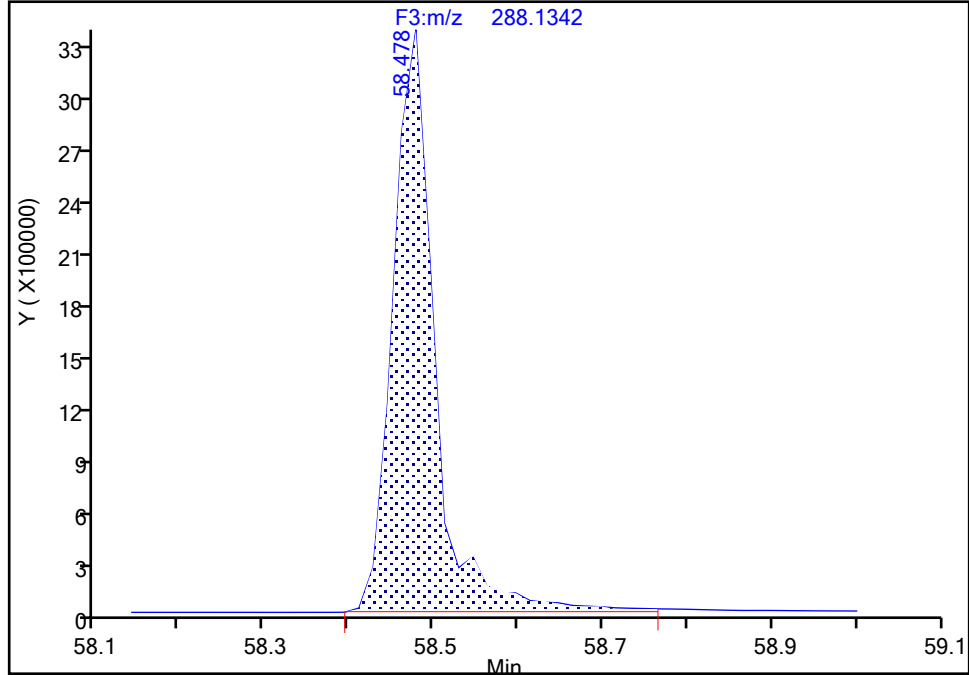
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

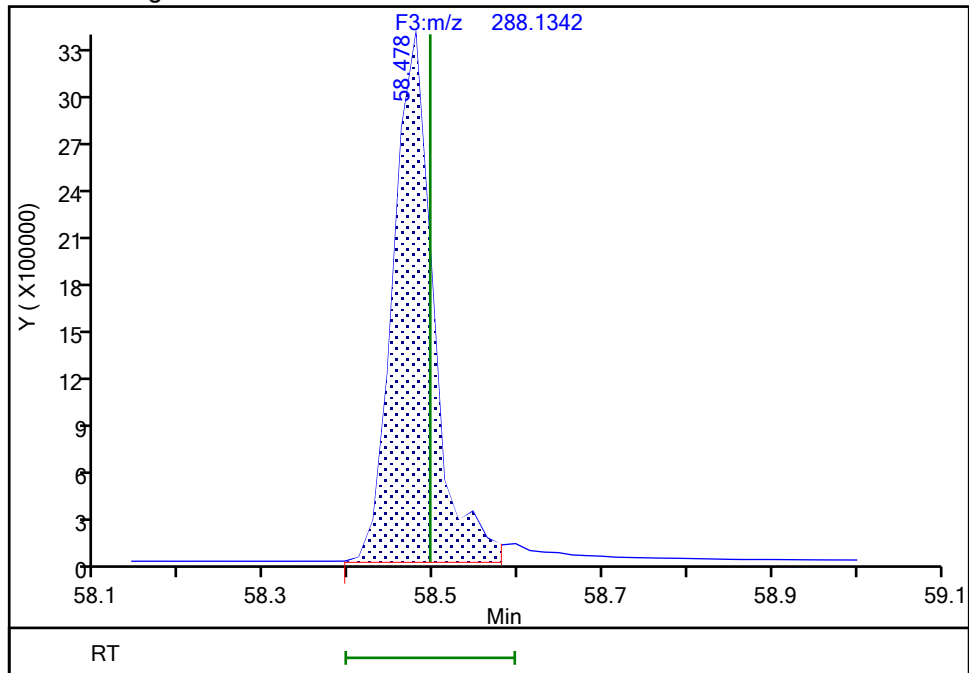
RT: 58.48
Area: 11522655
Amount: 124.6011
Amount Units: pg/ul

Processing Integration Results



RT: 58.48
Area: 11042946
Amount: 120.1060
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:41 -04:00:00 (UTC)

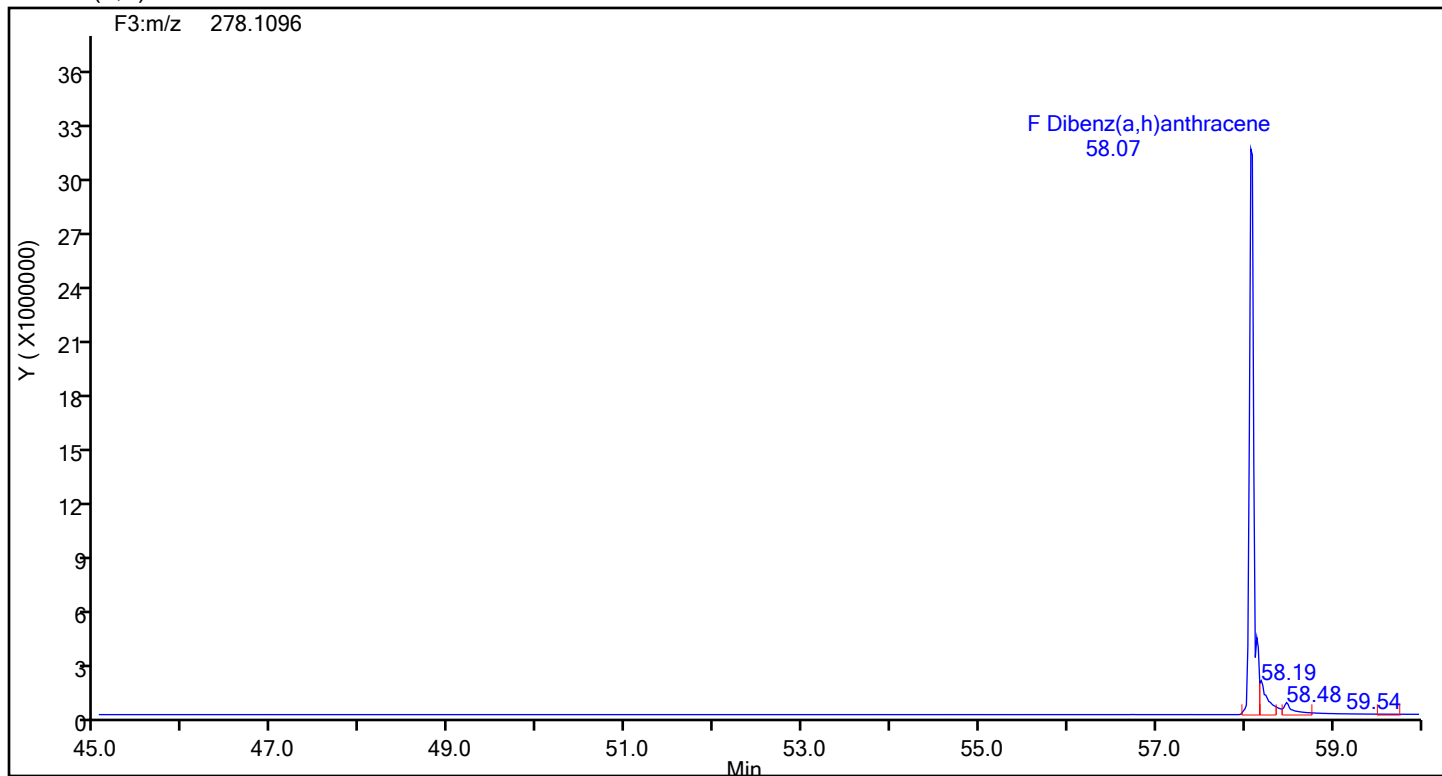
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

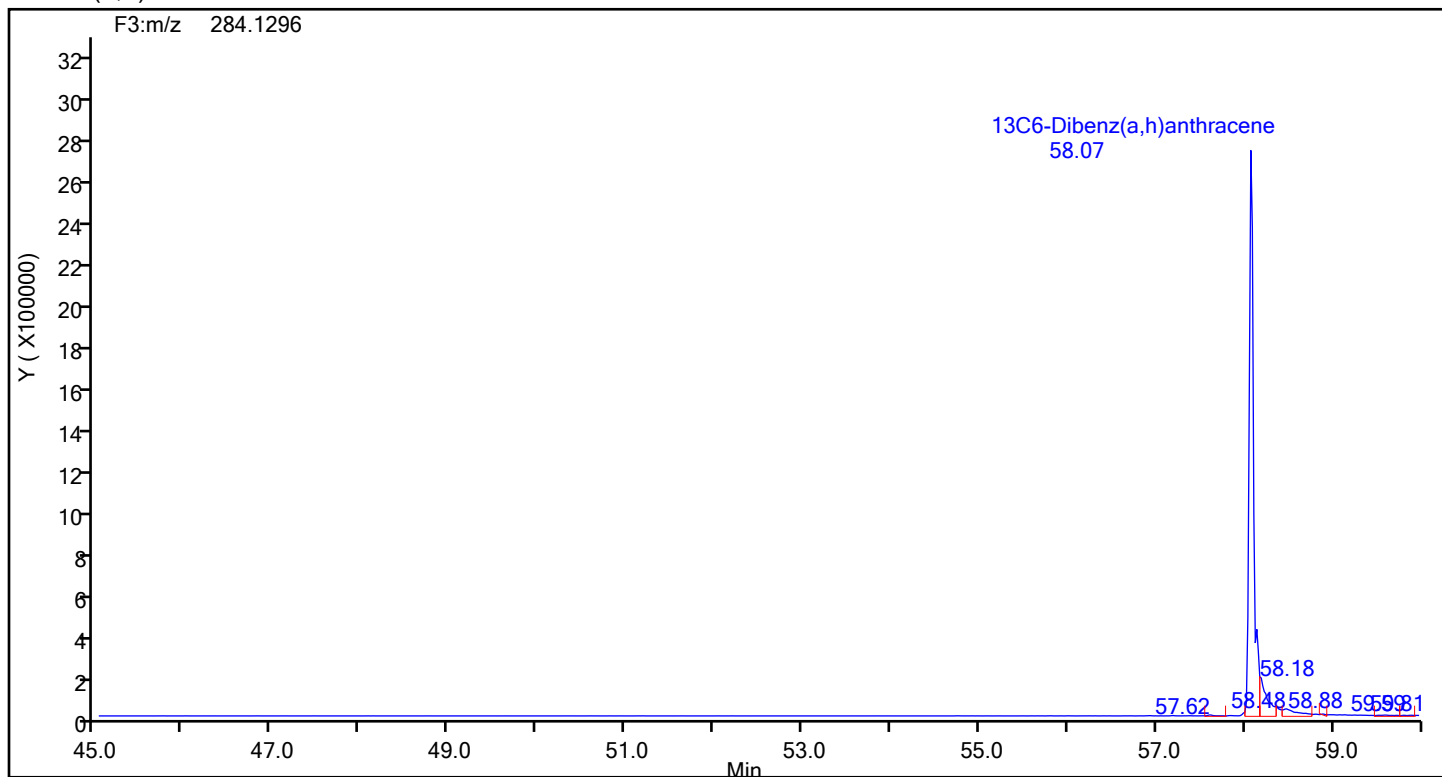
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 9
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



Eurofins Knoxville

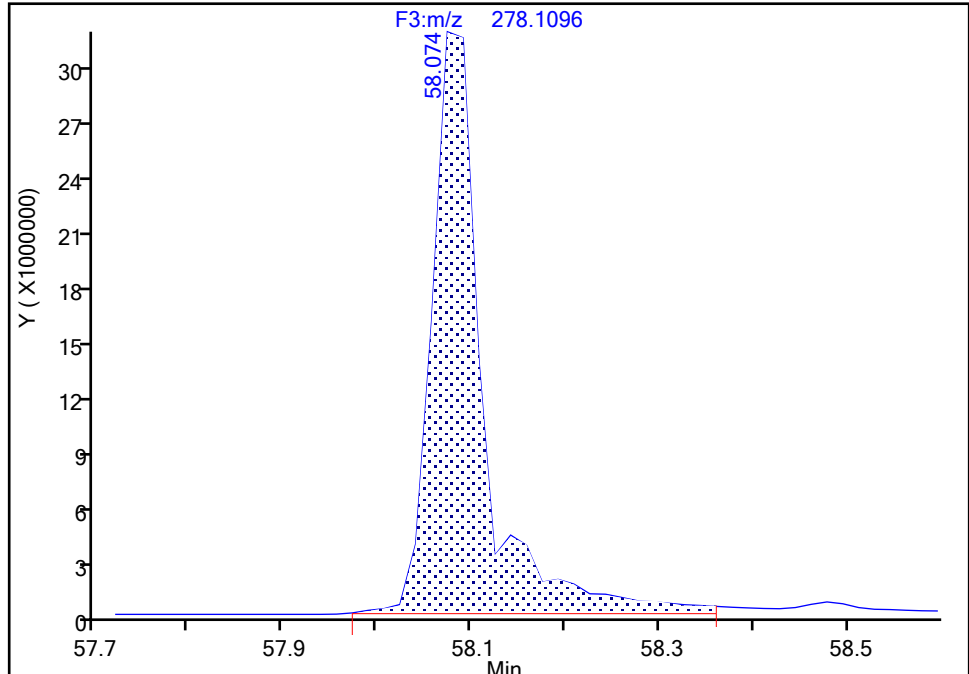
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

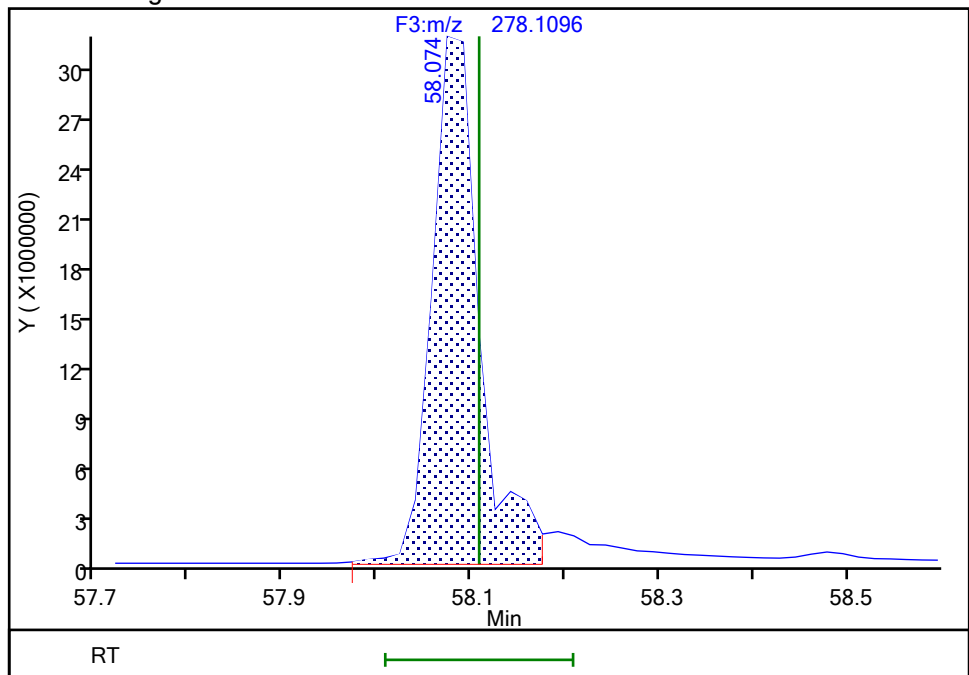
RT: 58.07
Area: 120391306
Amount: 1116.2911
Amount Units: pg/ul

Processing Integration Results



RT: 58.07
Area: 110582572
Amount: 1035.8099
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

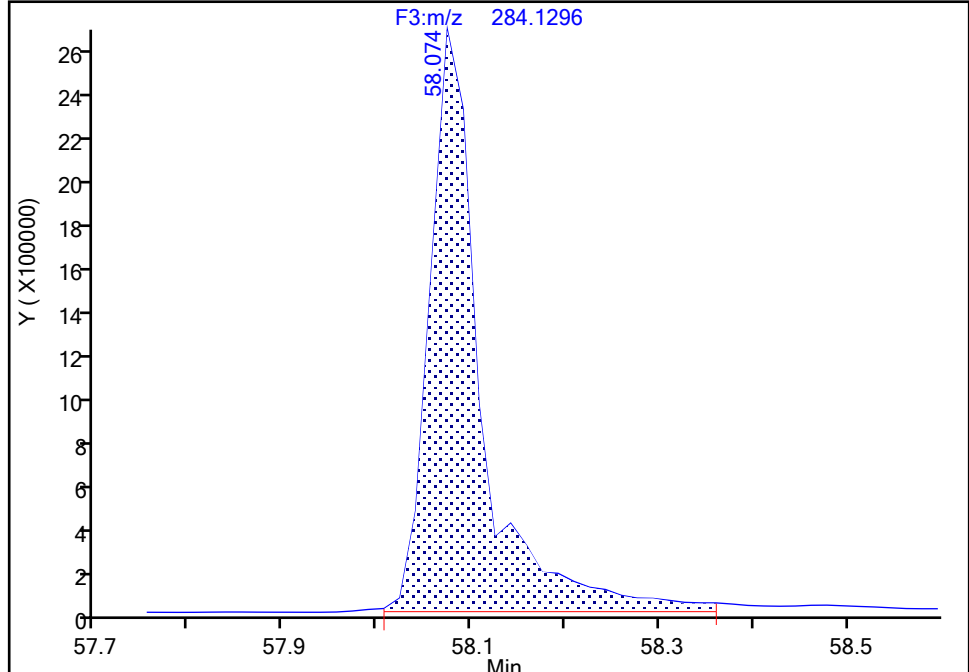
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic9.d
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH
Lims ID: IC L9
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C6-Dibenz(a,h)anthracene, CAS: STL03360

Signal: 1

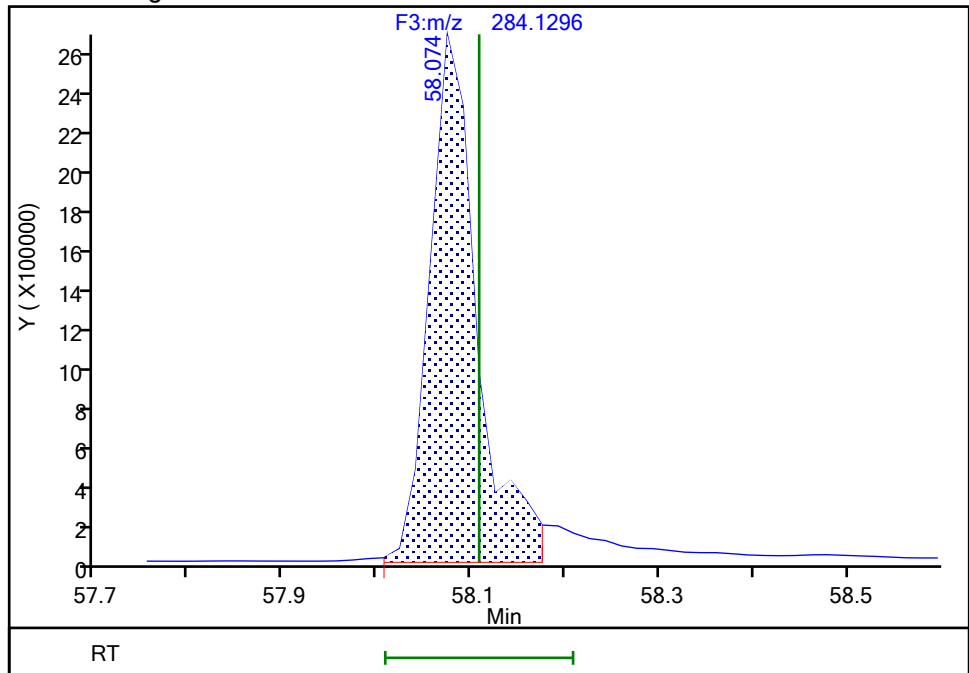
RT: 58.07
Area: 10350790
Amount: 134.2139
Amount Units: pg/ul

Processing Integration Results



RT: 58.07
Area: 9436274
Amount: 123.9894
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Calibration

/ 13C12-Benzo(j)fluoranthene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

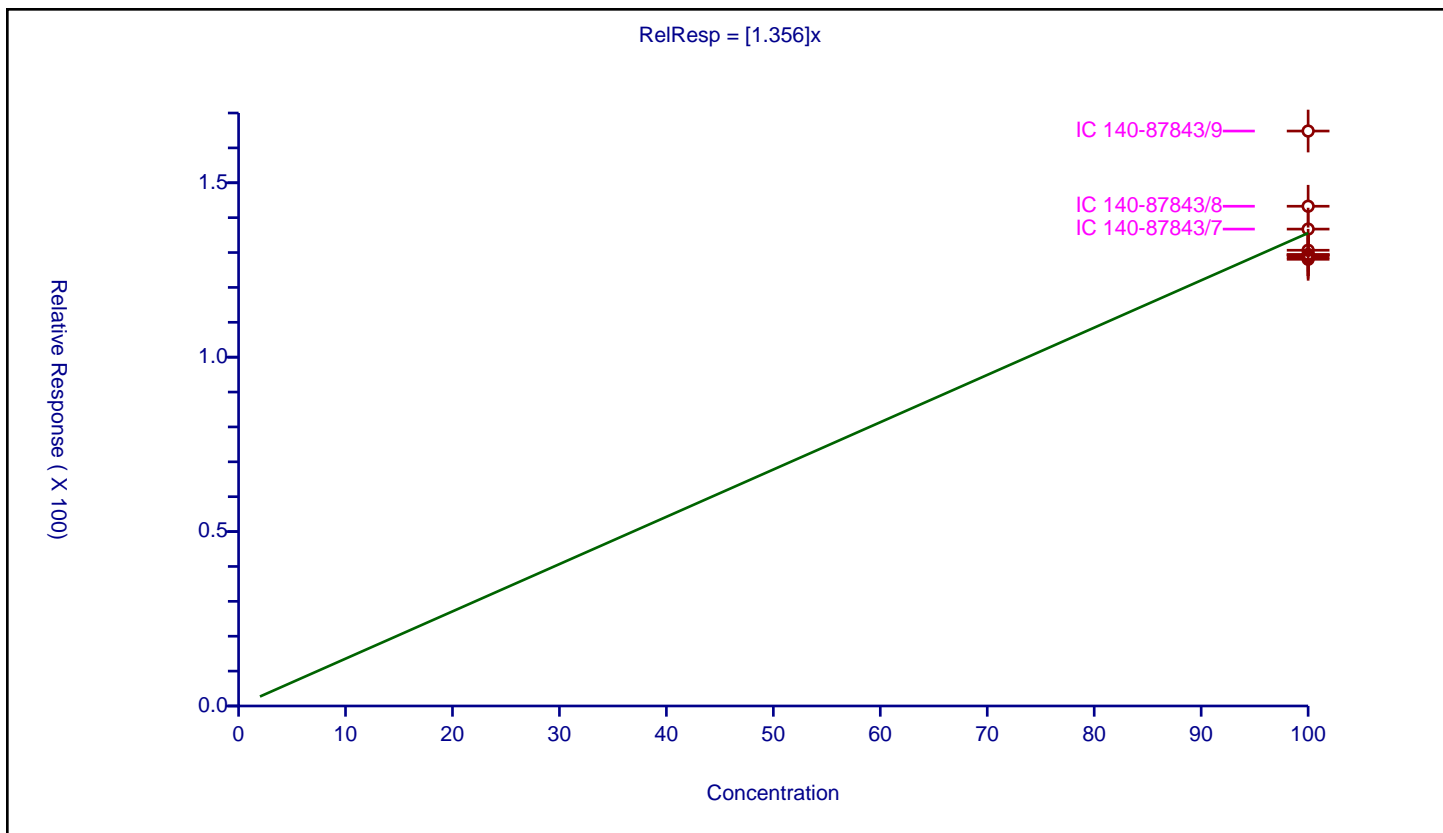
Curve Coefficients

Intercept: 0
 Slope: 1.356

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	129.337505	100.0	5060836.0	1.293375	Y
2	IC 140-87843/2	100.0	130.654858	100.0	5028172.0	1.306549	Y
3	IC 140-87843/3	100.0	128.630874	100.0	4927202.0	1.286309	Y
4	IC 140-87843/4	100.0	129.38599	100.0	5011388.0	1.29386	Y
5	IC 140-87843/5	100.0	129.357445	100.0	5318283.0	1.293574	Y
6	IC 140-87843/6	100.0	128.0567	100.0	5810473.0	1.280567	Y
7	IC 140-87843/7	100.0	136.719725	100.0	5799368.0	1.367197	Y
8	IC 140-87843/8	100.0	143.275573	100.0	6903874.0	1.432756	Y
9	IC 140-87843/9	100.0	164.834585	100.0	7211924.0	1.648346	Y



Calibration

/ 13C6-Benzo(c)fluorene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

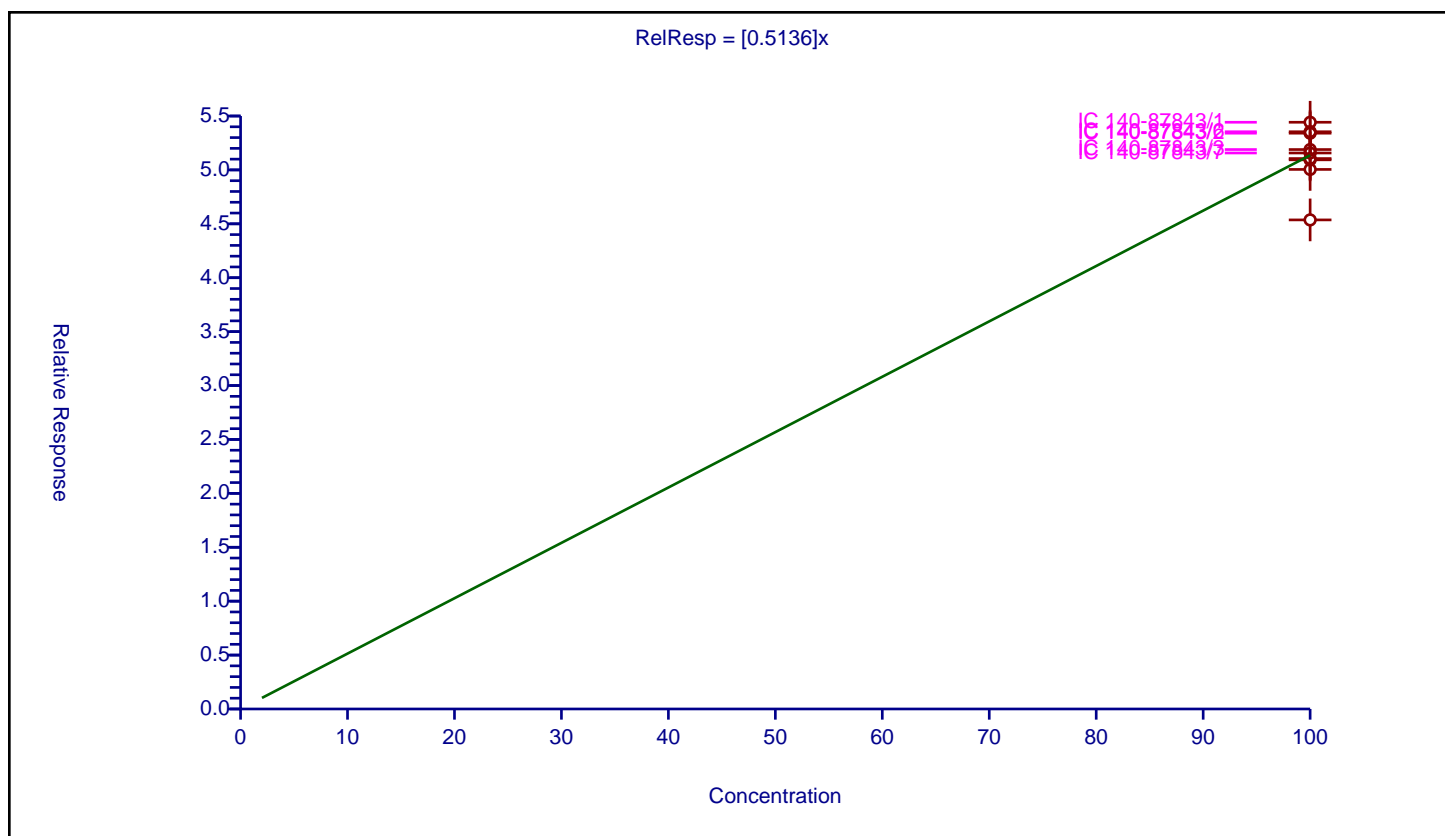
Curve Coefficients

Intercept: 0
 Slope: 0.5136

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	54.421406	100.0	6636938.0	0.544214	Y
2	IC 140-87843/2	100.0	53.406957	100.0	7097800.0	0.53407	Y
3	IC 140-87843/3	100.0	51.89137	100.0	7063080.0	0.518914	Y
4	IC 140-87843/4	100.0	45.364592	100.0	7837595.0	0.453646	Y
5	IC 140-87843/5	100.0	50.937027	100.0	6994144.0	0.50937	Y
6	IC 140-87843/6	100.0	53.540254	100.0	7731706.0	0.535403	Y
7	IC 140-87843/7	100.0	51.569874	100.0	8045261.0	0.515699	Y
8	IC 140-87843/8	100.0	51.054167	100.0	9327125.0	0.510542	Y
9	IC 140-87843/9	100.0	50.044562	100.0	9953605.0	0.500446	Y



Calibration

/ 2-Methylnaphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

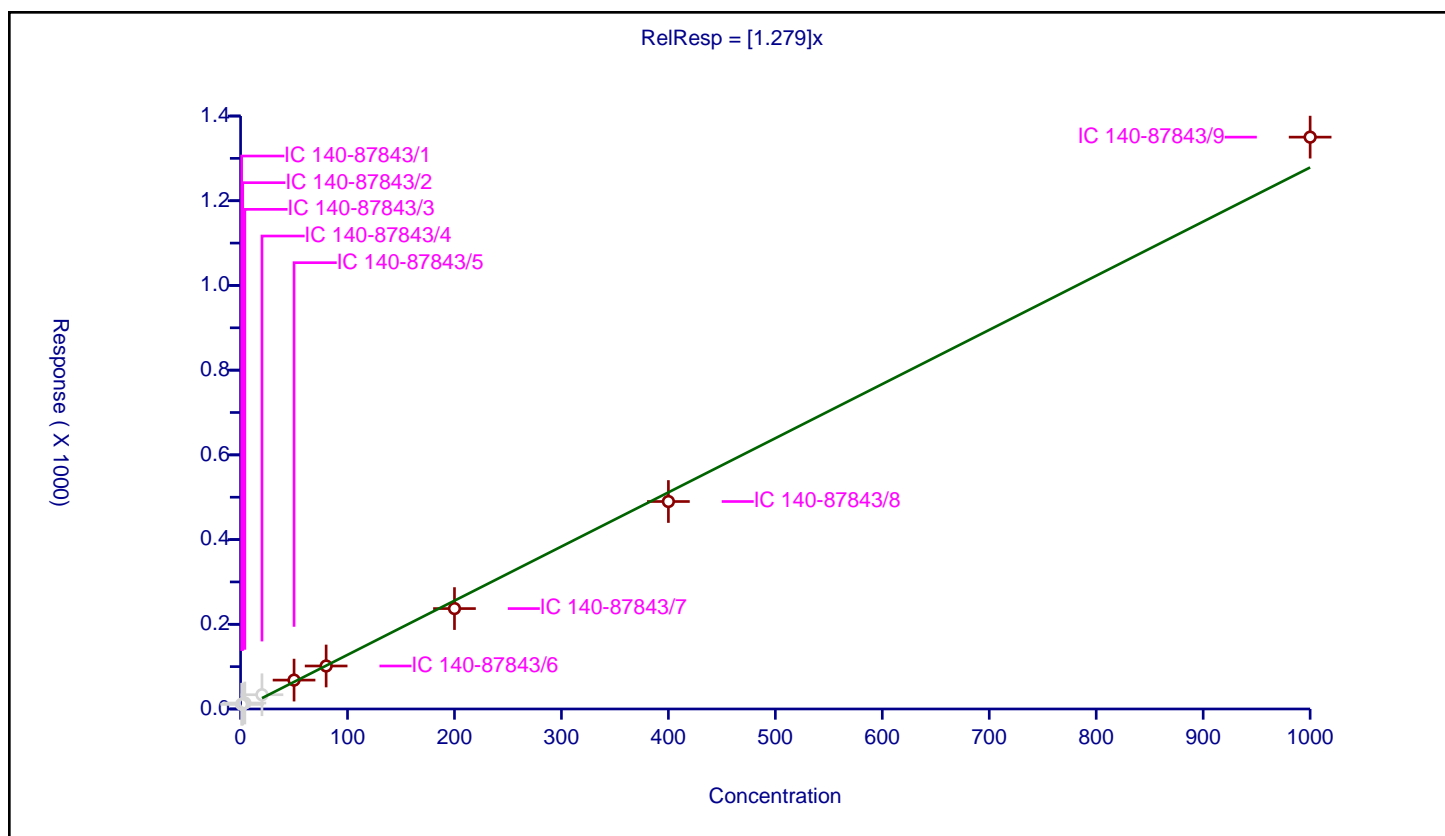
Curve Coefficients

Intercept: 0
Slope: 1.279

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	11.173881	100.0	4590652.0	11.173881	N
2	IC 140-87843/2	2.0	11.594961	100.0	4888063.0	5.797481	N
3	IC 140-87843/3	4.0	14.06532	100.0	4691404.0	3.51633	N
4	IC 140-87843/4	20.0	33.656277	100.0	5490022.0	1.682814	N
5	IC 140-87843/5	50.0	68.187804	100.0	4932932.0	1.363756	Y
6	IC 140-87843/6	80.0	101.505826	100.0	5726757.0	1.268823	Y
7	IC 140-87843/7	200.0	237.103291	100.0	5800321.0	1.185516	Y
8	IC 140-87843/8	400.0	489.830109	100.0	6439882.0	1.224575	Y
9	IC 140-87843/9	1000.0	1350.161797	100.0	7285064.0	1.350162	Y



Calibration

/ Acenaphthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

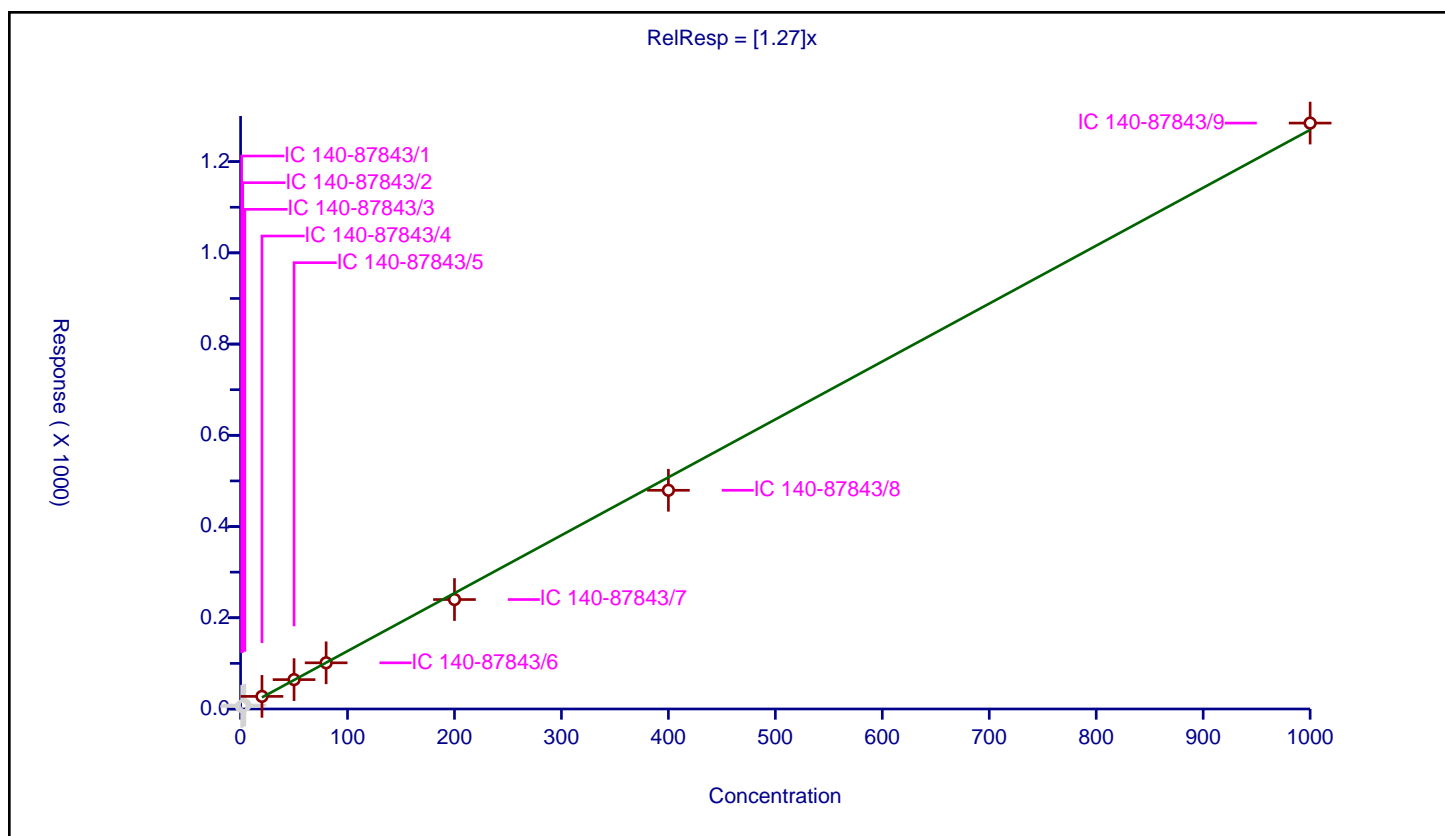
Curve Coefficients

Intercept: 0
Slope: 1.27

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	5.644006	100.0	2649873.0	5.644006	N
2	IC 140-87843/2	2.0	6.845692	100.0	2794458.0	3.422846	N
3	IC 140-87843/3	4.0	8.670511	100.0	2973262.0	2.167628	N
4	IC 140-87843/4	20.0	27.64107	100.0	3399456.0	1.382053	Y
5	IC 140-87843/5	50.0	64.384133	100.0	2929756.0	1.287683	Y
6	IC 140-87843/6	80.0	101.22165	100.0	3599722.0	1.265271	Y
7	IC 140-87843/7	200.0	239.960295	100.0	3536065.0	1.199801	Y
8	IC 140-87843/8	400.0	479.506035	100.0	4039150.0	1.198765	Y
9	IC 140-87843/9	1000.0	1284.48027	100.0	4662594.0	1.28448	Y



Calibration

/ Acenaphthylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

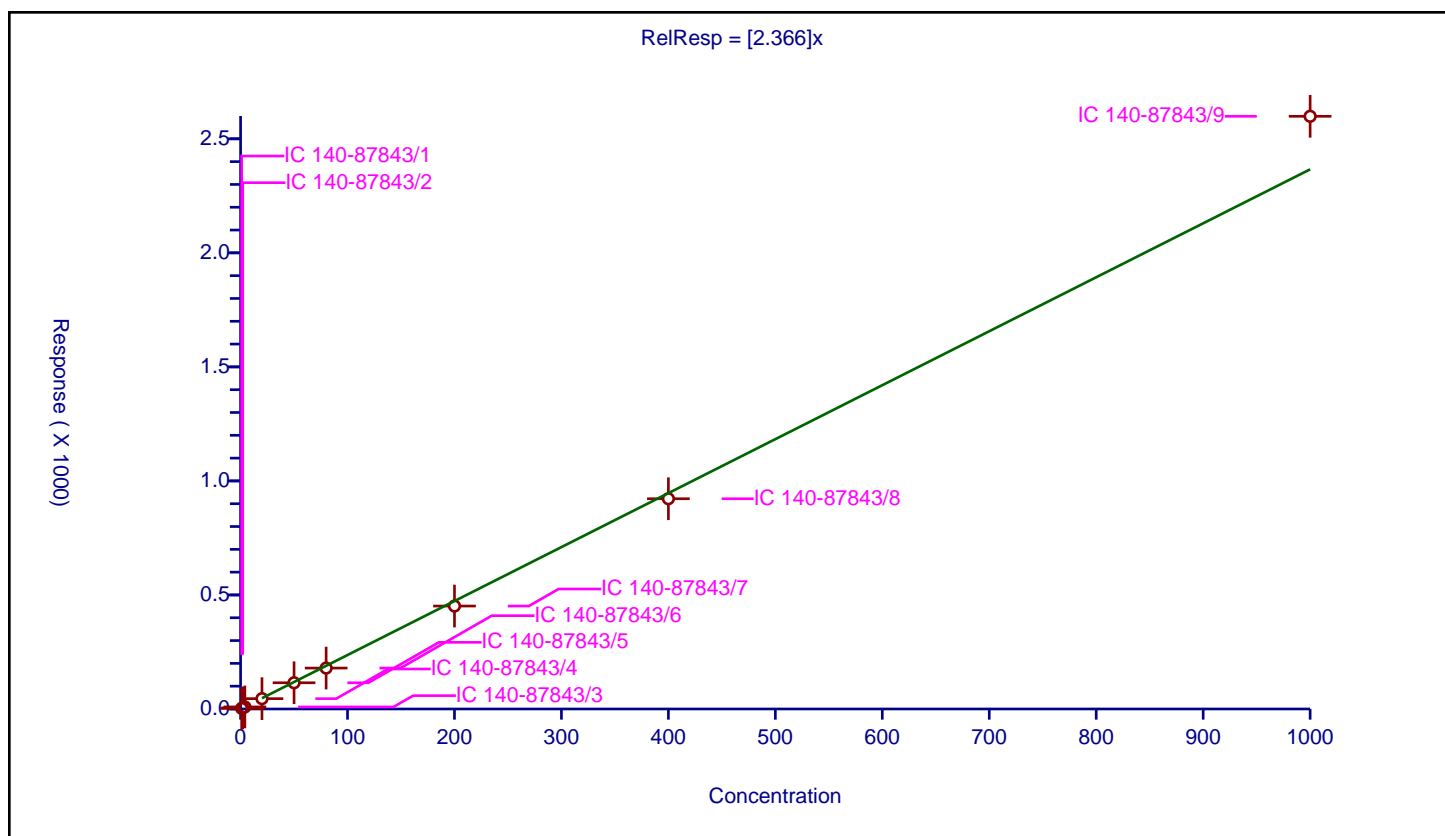
Curve Coefficients

Intercept: 0
Slope: 2.366

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.678393	100.0	2649873.0	2.678393	Y
2	IC 140-87843/2	2.0	4.765647	100.0	2794458.0	2.382823	Y
3	IC 140-87843/3	4.0	9.061125	100.0	2973262.0	2.265281	Y
4	IC 140-87843/4	20.0	45.331694	100.0	3399456.0	2.266585	Y
5	IC 140-87843/5	50.0	114.95104	100.0	2929756.0	2.299021	Y
6	IC 140-87843/6	80.0	179.433745	100.0	3599722.0	2.242922	Y
7	IC 140-87843/7	200.0	451.373801	100.0	3536065.0	2.256869	Y
8	IC 140-87843/8	400.0	921.847022	100.0	4039150.0	2.304618	Y
9	IC 140-87843/9	1000.0	2598.69519	100.0	4662594.0	2.598695	Y



Calibration

/ Anthracene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

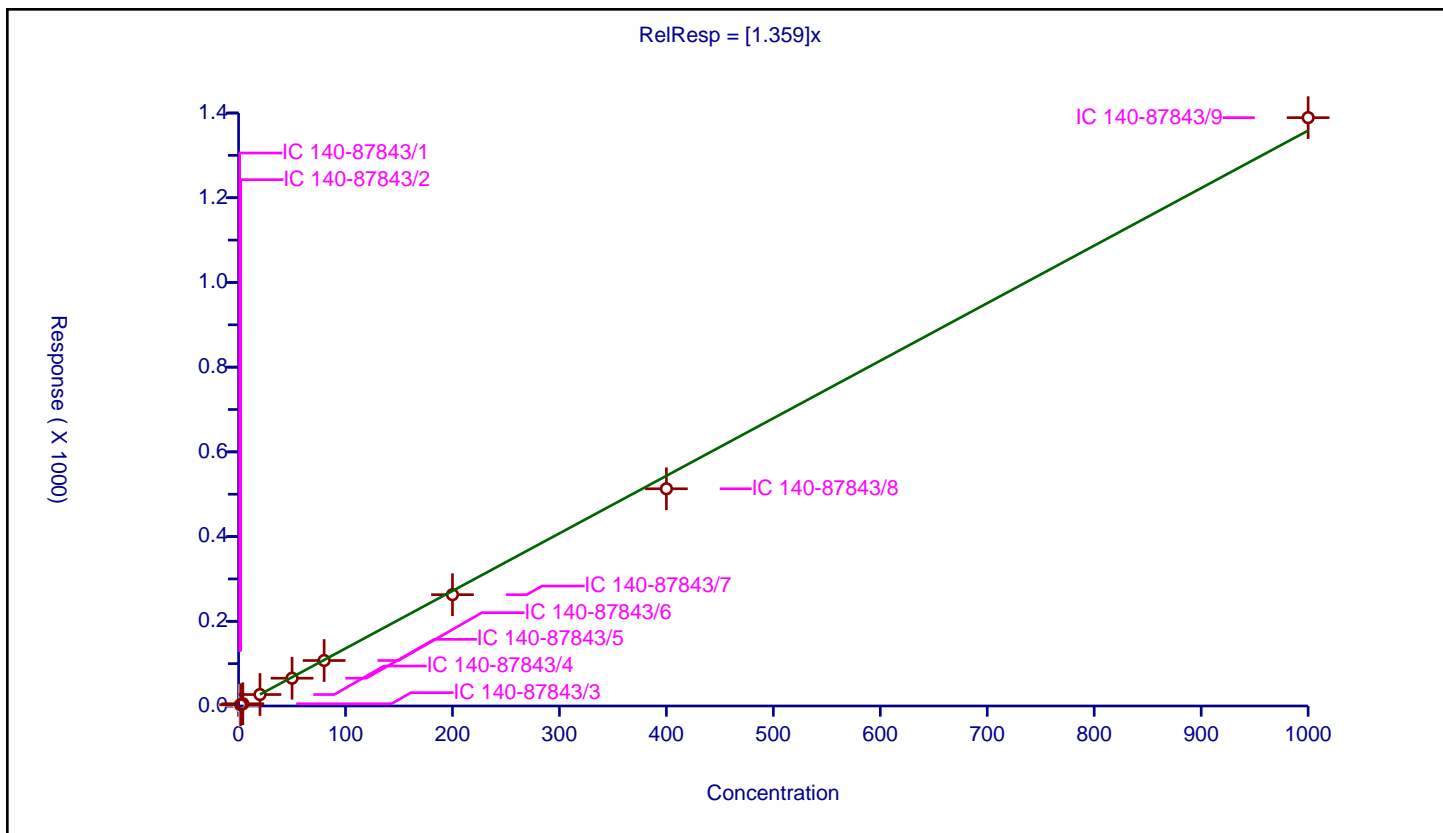
Curve Coefficients

Intercept: 0
 Slope: 1.359

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.76	100.0	2810000.0	1.76	N
2	IC 140-87843/2	2.0	3.115511	100.0	2927417.0	1.557756	Y
3	IC 140-87843/3	4.0	5.274407	100.0	3047129.0	1.318602	Y
4	IC 140-87843/4	20.0	27.054318	100.0	3635963.0	1.352716	Y
5	IC 140-87843/5	50.0	65.579811	100.0	3095933.0	1.311596	Y
6	IC 140-87843/6	80.0	107.408061	100.0	3339808.0	1.342601	Y
7	IC 140-87843/7	200.0	262.852584	100.0	3744430.0	1.314263	Y
8	IC 140-87843/8	400.0	512.849879	100.0	4474470.0	1.282125	Y
9	IC 140-87843/9	1000.0	1389.072733	100.0	5177443.0	1.389073	Y



Calibration

/ Anthracin-d10

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

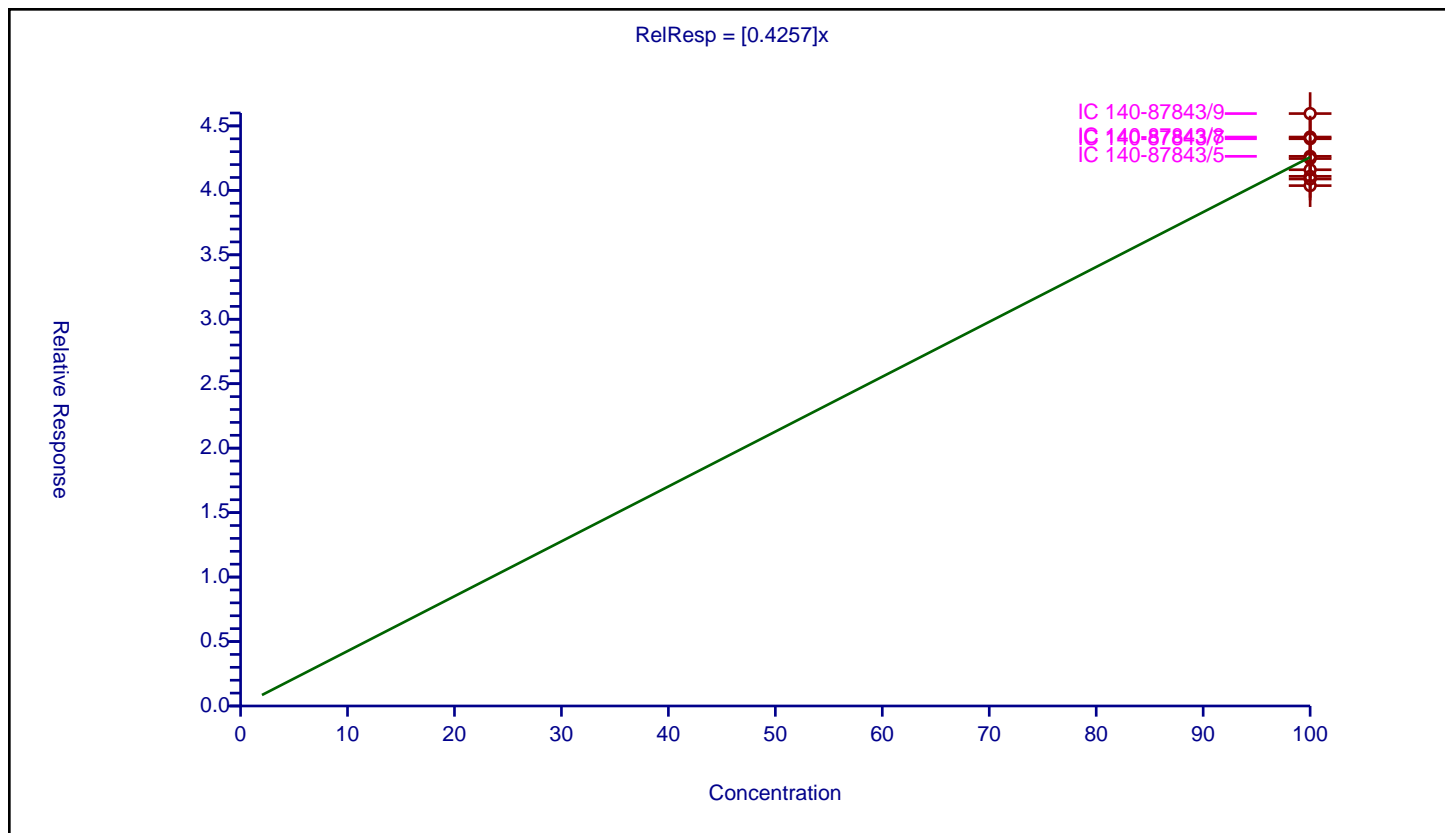
Curve Coefficients

Intercept: 0
 Slope: 0.4257

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	40.88078	100.0	6636938.0	0.408808	Y
2	IC 140-87843/2	100.0	41.088718	100.0	7097800.0	0.410887	Y
3	IC 140-87843/3	100.0	40.367304	100.0	7063080.0	0.403673	Y
4	IC 140-87843/4	100.0	42.463702	100.0	7837595.0	0.424637	Y
5	IC 140-87843/5	100.0	42.640643	100.0	6994144.0	0.426406	Y
6	IC 140-87843/6	100.0	41.600276	100.0	7731706.0	0.416003	Y
7	IC 140-87843/7	100.0	44.004191	100.0	8045261.0	0.440042	Y
8	IC 140-87843/8	100.0	44.135594	100.0	9327125.0	0.441356	Y
9	IC 140-87843/9	100.0	45.956827	100.0	9953605.0	0.459568	Y



Calibration

/ Benzo[a]anthracene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

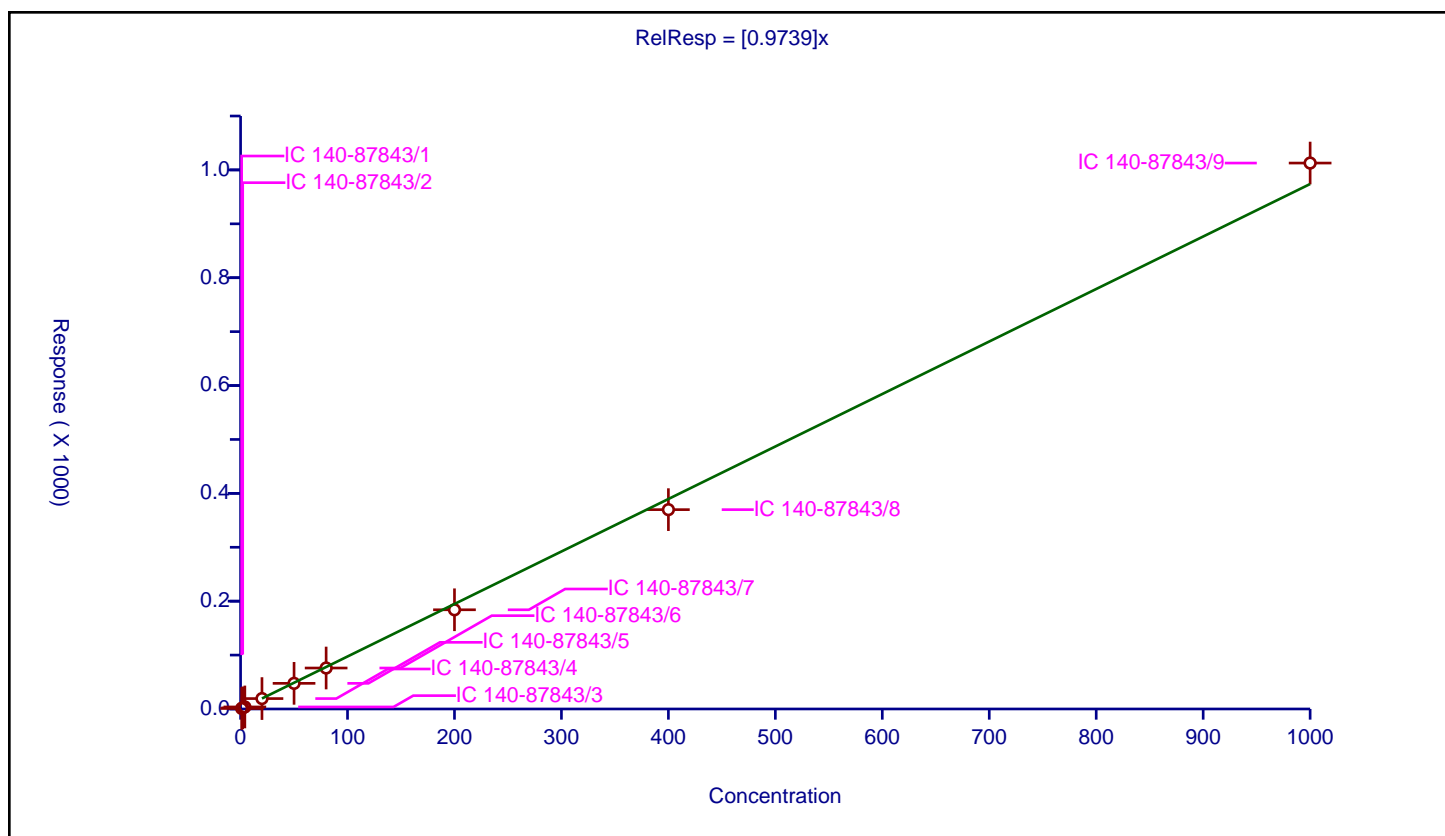
Curve Coefficients

Intercept: 0
Slope: 0.9739

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.03781	100.0	7605148.0	1.03781	Y
2	IC 140-87843/2	2.0	2.121091	100.0	7671524.0	1.060545	Y
3	IC 140-87843/3	4.0	3.769102	100.0	7504068.0	0.942276	Y
4	IC 140-87843/4	20.0	19.315776	100.0	7704055.0	0.965789	Y
5	IC 140-87843/5	50.0	47.551652	100.0	7783391.0	0.951033	Y
6	IC 140-87843/6	80.0	75.994072	100.0	8168778.0	0.949926	Y
7	IC 140-87843/7	200.0	184.021642	100.0	8485215.0	0.920108	Y
8	IC 140-87843/8	400.0	369.79461	100.0	10694535.0	0.924487	Y
9	IC 140-87843/9	1000.0	1012.761185	100.0	12260100.0	1.012761	Y



Calibration

/ Benzo[a]pyrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

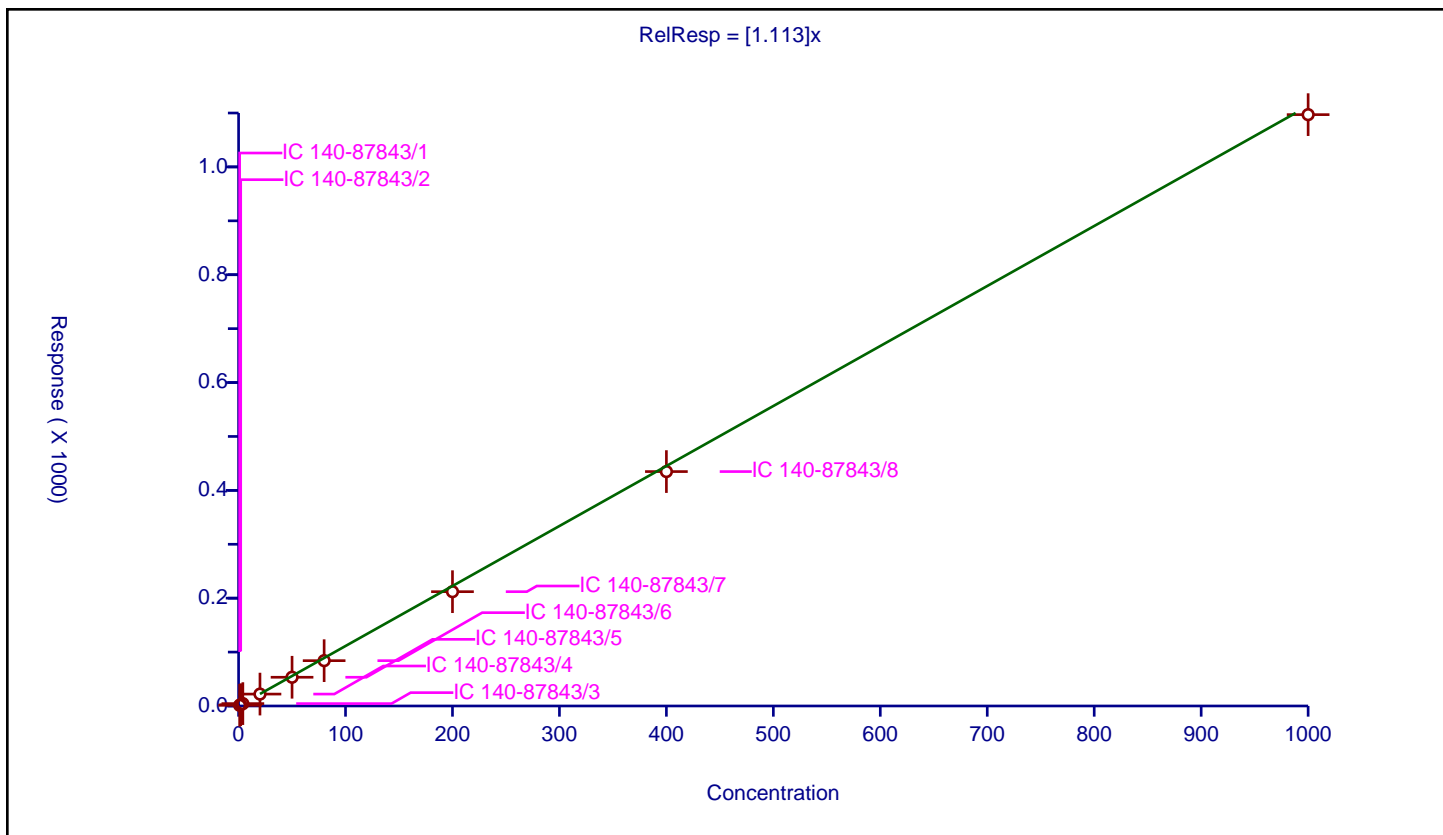
Curve Coefficients

Intercept: 0
 Slope: 1.113

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.241342	100.0	7271246.0	1.241342	Y
2	IC 140-87843/2	2.0	2.419433	100.0	7368833.0	1.209717	Y
3	IC 140-87843/3	4.0	4.403362	100.0	7222186.0	1.100841	Y
4	IC 140-87843/4	20.0	22.082888	100.0	7518310.0	1.104144	Y
5	IC 140-87843/5	50.0	53.316967	100.0	7915726.0	1.066339	Y
6	IC 140-87843/6	80.0	84.058294	100.0	8413993.0	1.050729	Y
7	IC 140-87843/7	200.0	212.026695	100.0	8772202.0	1.060133	Y
8	IC 140-87843/8	400.0	434.832634	100.0	11267474.0	1.087082	Y
9	IC 140-87843/9	1000.0	1096.960517	100.0	14479273.0	1.096961	Y



Calibration

/ Benzo[b]fluoranthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

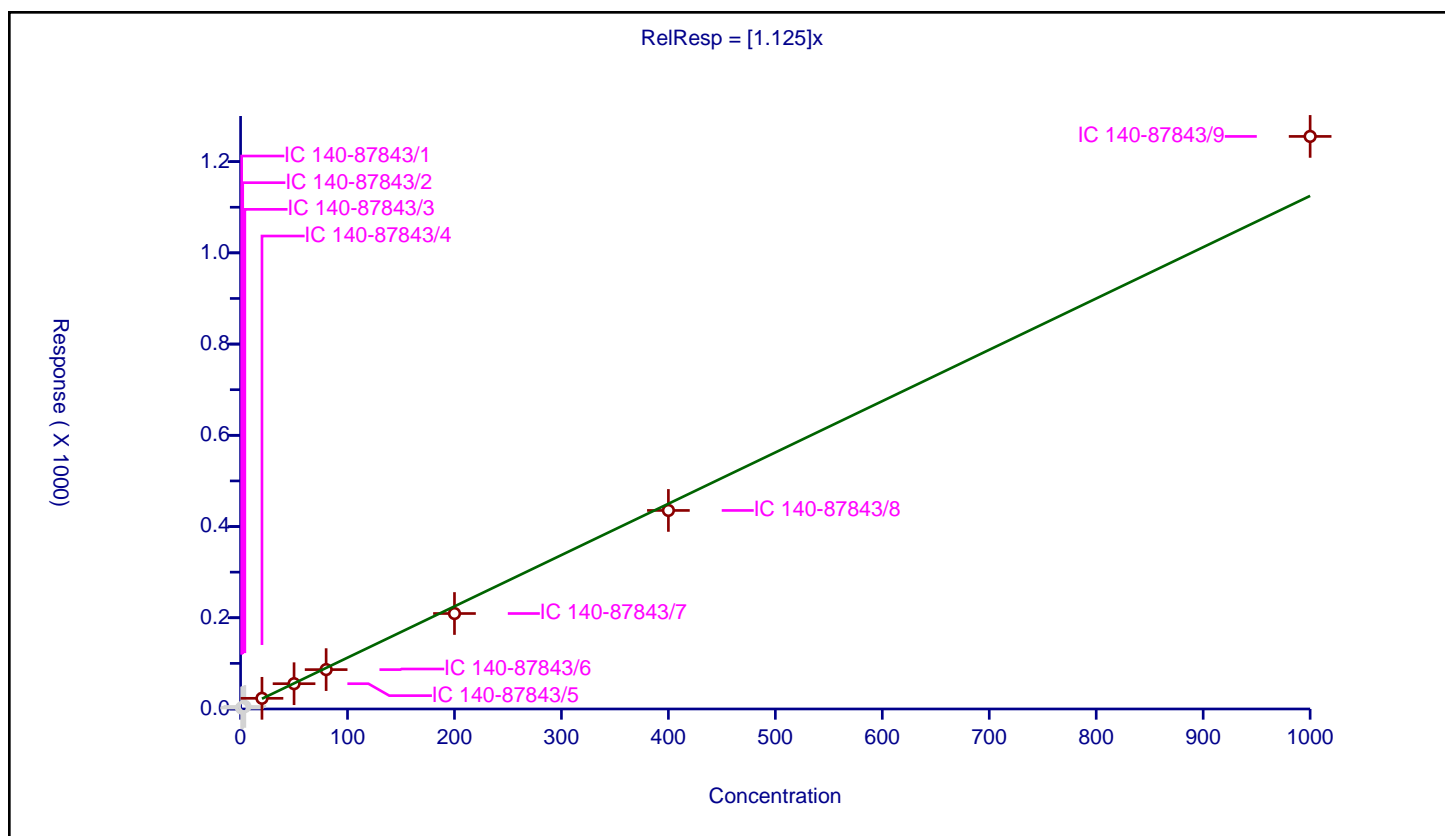
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.218432	100.0	7044571.0	2.218432	N
2	IC 140-87843/2	2.0	3.520719	100.0	6995957.0	1.76036	N
3	IC 140-87843/3	4.0	5.577365	100.0	6808556.0	1.394341	N
4	IC 140-87843/4	20.0	23.426326	100.0	7226370.0	1.171316	Y
5	IC 140-87843/5	50.0	55.443172	100.0	7699352.0	1.108863	Y
6	IC 140-87843/6	80.0	86.347694	100.0	8052237.0	1.079346	Y
7	IC 140-87843/7	200.0	209.295166	100.0	8615715.0	1.046476	Y
8	IC 140-87843/8	400.0	435.284705	100.0	10435051.0	1.088212	Y
9	IC 140-87843/9	1000.0	1255.252954	100.0	12410189.0	1.255253	Y



Calibration

/ Benzo[e]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

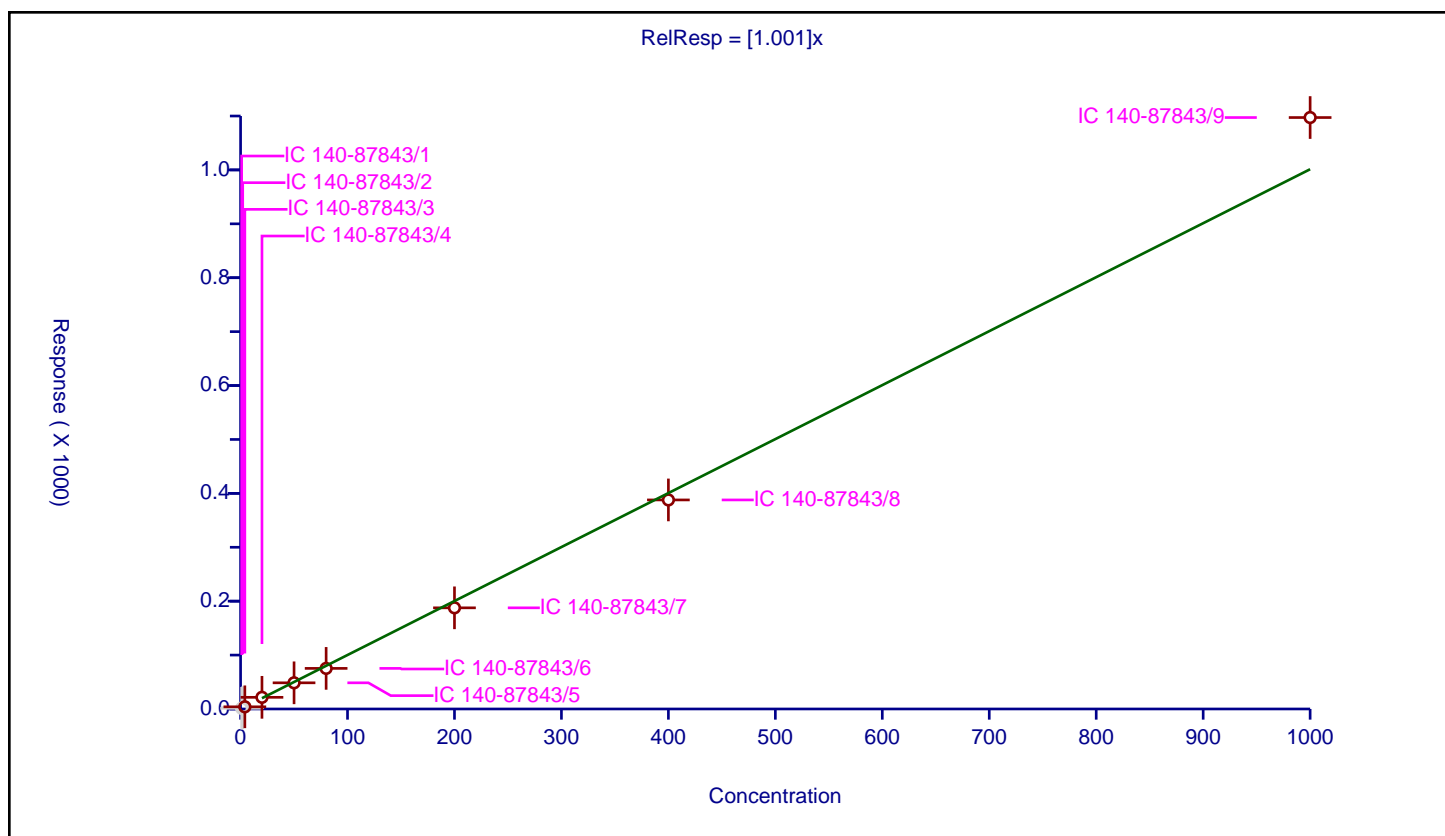
Curve Coefficients

Intercept: 0
Slope: 1.001

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.257228	100.0	7869617.0	1.257228	N
2	IC 140-87843/2	2.0	2.500018	100.0	7870944.0	1.250009	N
3	IC 140-87843/3	4.0	4.033169	100.0	7853527.0	1.008292	Y
4	IC 140-87843/4	20.0	21.65788	100.0	8133857.0	1.082894	Y
5	IC 140-87843/5	50.0	48.569391	100.0	8346864.0	0.971388	Y
6	IC 140-87843/6	80.0	75.305819	100.0	9036295.0	0.941323	Y
7	IC 140-87843/7	200.0	187.652164	100.0	9276322.0	0.938261	Y
8	IC 140-87843/8	400.0	387.812314	100.0	11723054.0	0.969531	Y
9	IC 140-87843/9	1000.0	1097.197805	100.0	14222064.0	1.097198	Y



Calibration

/ Benzo[g,h,i]perylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

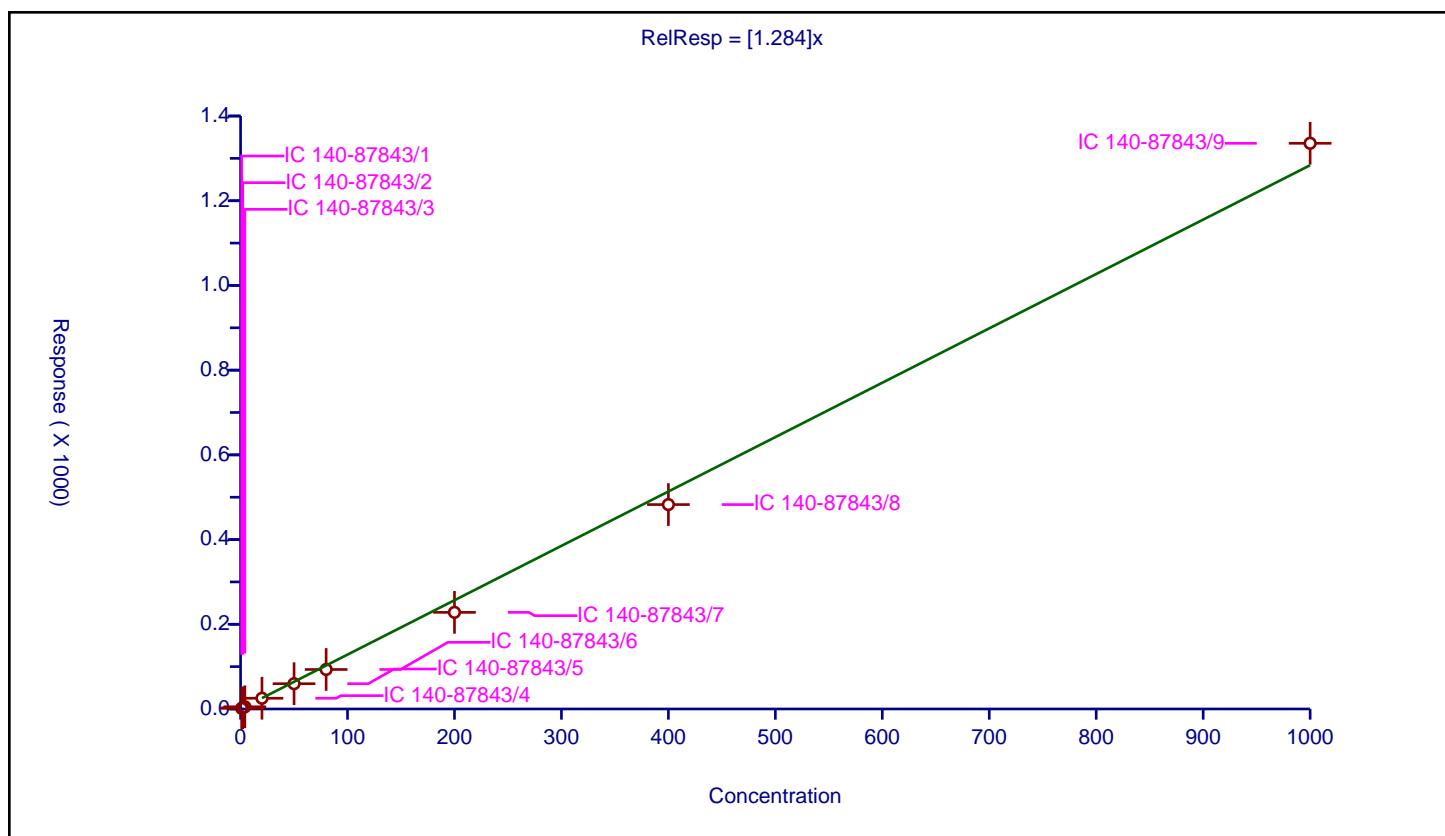
Curve Coefficients

Intercept: 0
Slope: 1.284

Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.516658	100.0	5925593.0	1.516658	Y
2	IC 140-87843/2	2.0	2.869052	100.0	6532018.0	1.434526	Y
3	IC 140-87843/3	4.0	5.167395	100.0	5830946.0	1.291849	Y
4	IC 140-87843/4	20.0	25.354433	100.0	6056294.0	1.267722	Y
5	IC 140-87843/5	50.0	59.702766	100.0	6552075.0	1.194055	Y
6	IC 140-87843/6	80.0	93.285458	100.0	7011632.0	1.166068	Y
7	IC 140-87843/7	200.0	228.146826	100.0	7551974.0	1.140734	Y
8	IC 140-87843/8	400.0	482.641798	100.0	9250572.0	1.206604	Y
9	IC 140-87843/9	1000.0	1335.585921	100.0	11042946.0	1.335586	Y



Calibration

/ Benzo[k]fluoranthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

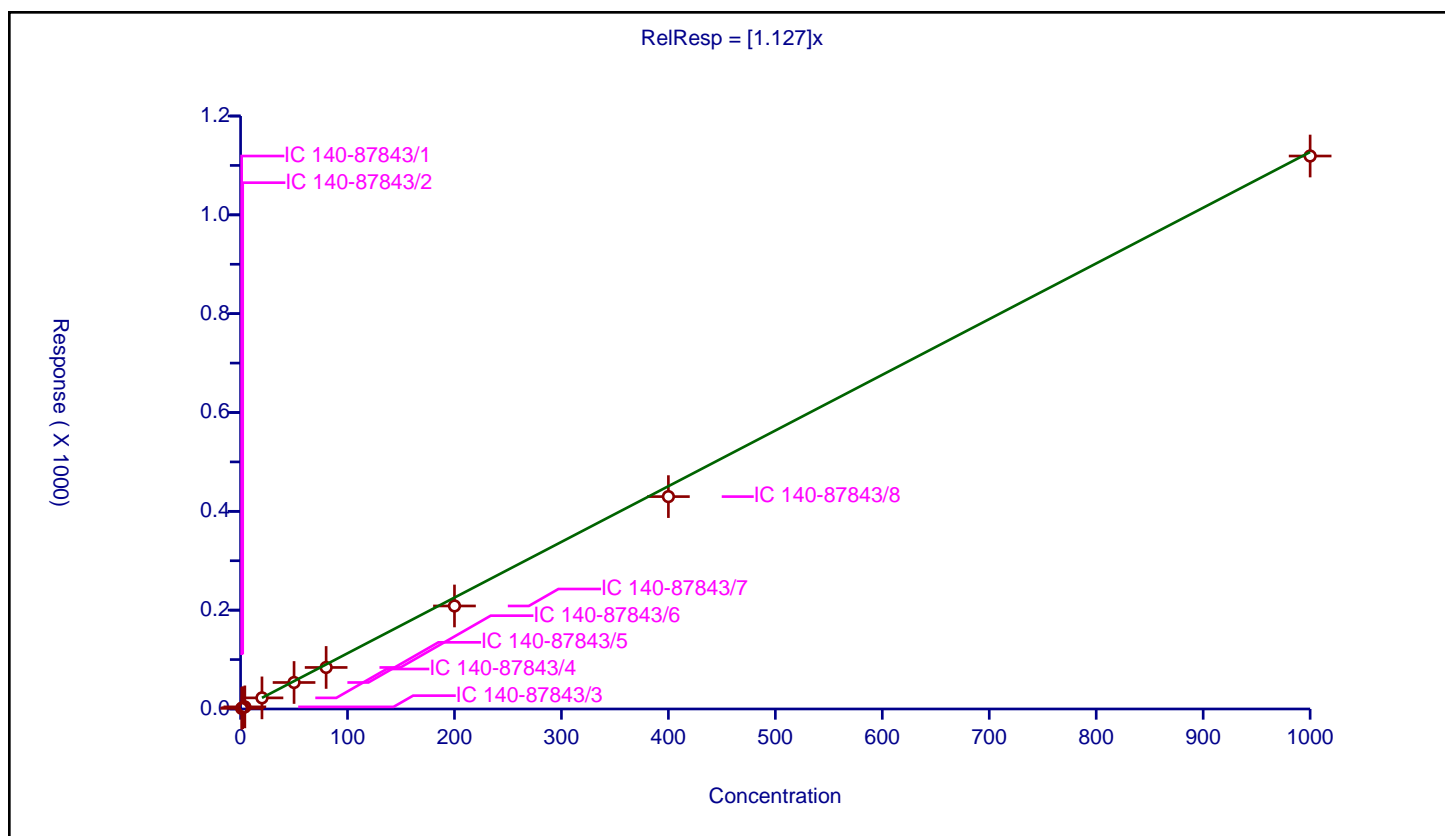
Curve Coefficients

Intercept: 0
Slope: 1.127

Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.247204	100.0	8157925.0	1.247204	Y
2	IC 140-87843/2	2.0	2.68761	100.0	8172987.0	1.343805	Y
3	IC 140-87843/3	4.0	4.275765	100.0	8218810.0	1.068941	Y
4	IC 140-87843/4	20.0	22.48628	100.0	8387092.0	1.124314	Y
5	IC 140-87843/5	50.0	53.627197	100.0	9021801.0	1.072544	Y
6	IC 140-87843/6	80.0	84.067587	100.0	9461461.0	1.050845	Y
7	IC 140-87843/7	200.0	208.512326	100.0	10118186.0	1.042562	Y
8	IC 140-87843/8	400.0	429.801092	100.0	12917530.0	1.074503	Y
9	IC 140-87843/9	1000.0	1119.032455	100.0	16130058.0	1.119032	Y



Calibration

/ Chrysene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

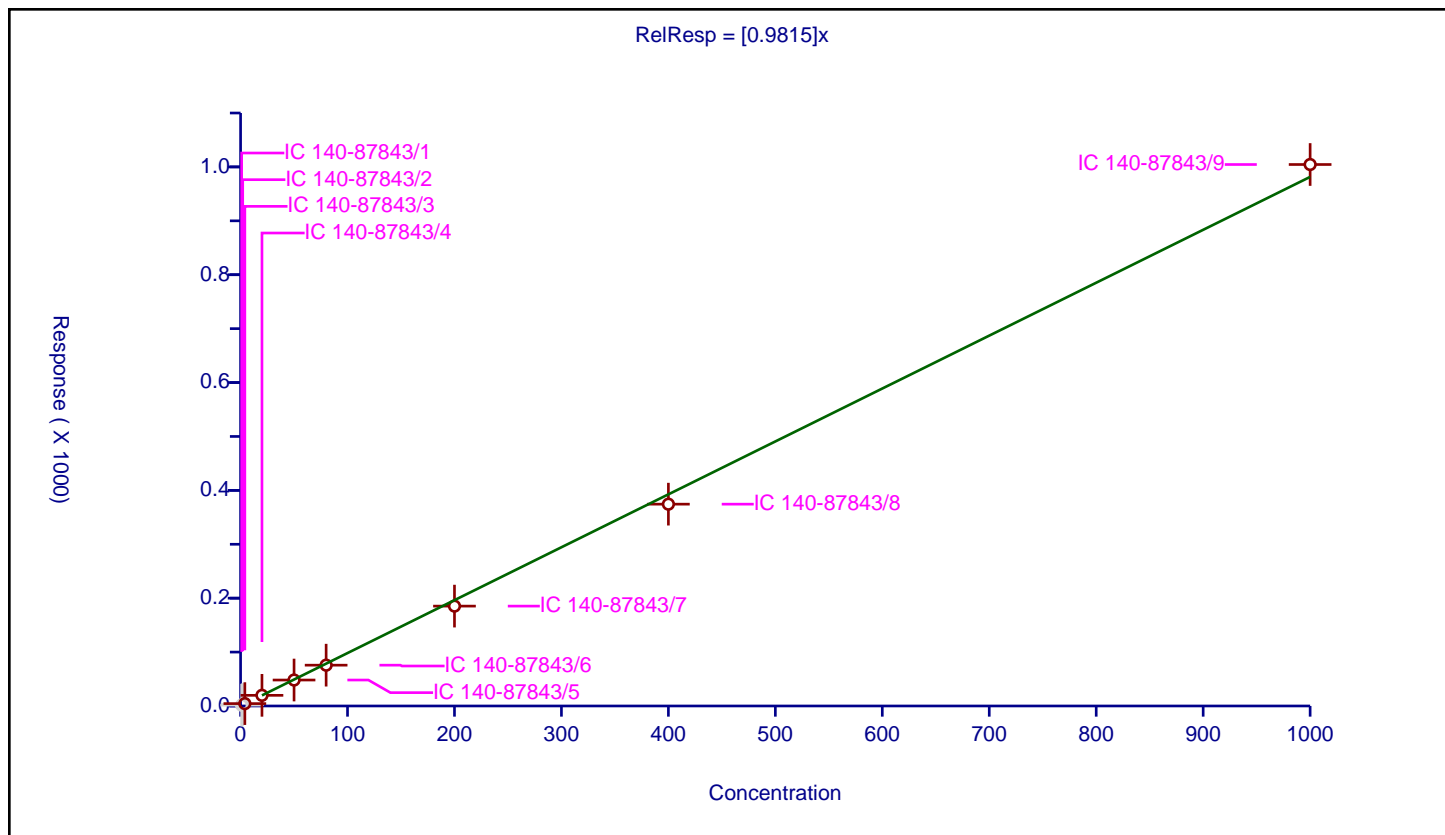
Curve Coefficients

Intercept: 0
Slope: 0.9815

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.537554	100.0	7872763.0	1.537554	N
2	IC 140-87843/2	2.0	2.757934	100.0	8190879.0	1.378967	N
3	IC 140-87843/3	4.0	4.42542	100.0	7844204.0	1.106355	Y
4	IC 140-87843/4	20.0	19.754729	100.0	8166961.0	0.987736	Y
5	IC 140-87843/5	50.0	48.13393	100.0	8407429.0	0.962679	Y
6	IC 140-87843/6	80.0	75.723312	100.0	8805464.0	0.946541	Y
7	IC 140-87843/7	200.0	185.284376	100.0	9283915.0	0.926422	Y
8	IC 140-87843/8	400.0	374.389838	100.0	11695295.0	0.935975	Y
9	IC 140-87843/9	1000.0	1004.470404	100.0	13421719.0	1.00447	Y



Calibration

/ Dibenz(a,h)anthracene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

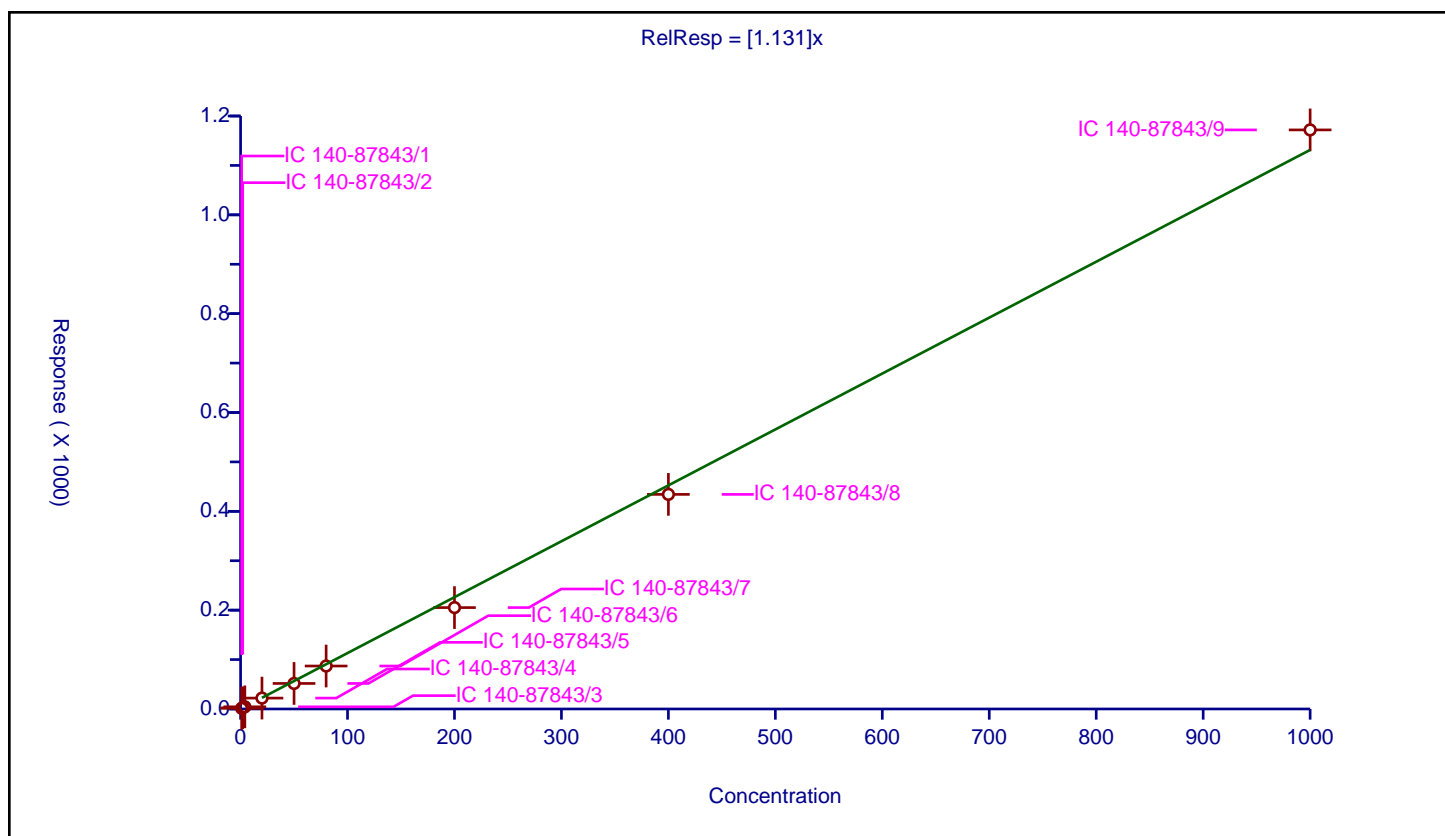
Curve Coefficients

Intercept: 0
Slope: 1.131

Error Coefficients

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.356093	100.0	5080699.0	1.356093	Y
2	IC 140-87843/2	2.0	2.433341	100.0	5414078.0	1.216671	Y
3	IC 140-87843/3	4.0	4.416368	100.0	4776504.0	1.104092	Y
4	IC 140-87843/4	20.0	22.029045	100.0	4988169.0	1.101452	Y
5	IC 140-87843/5	50.0	51.677938	100.0	5397040.0	1.033559	Y
6	IC 140-87843/6	80.0	86.947855	100.0	5580937.0	1.086848	Y
7	IC 140-87843/7	200.0	205.213845	100.0	6110020.0	1.026069	Y
8	IC 140-87843/8	400.0	434.276418	100.0	7695778.0	1.085691	Y
9	IC 140-87843/9	1000.0	1171.888099	100.0	9436274.0	1.171888	Y



Calibration

/ Fluoranthene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

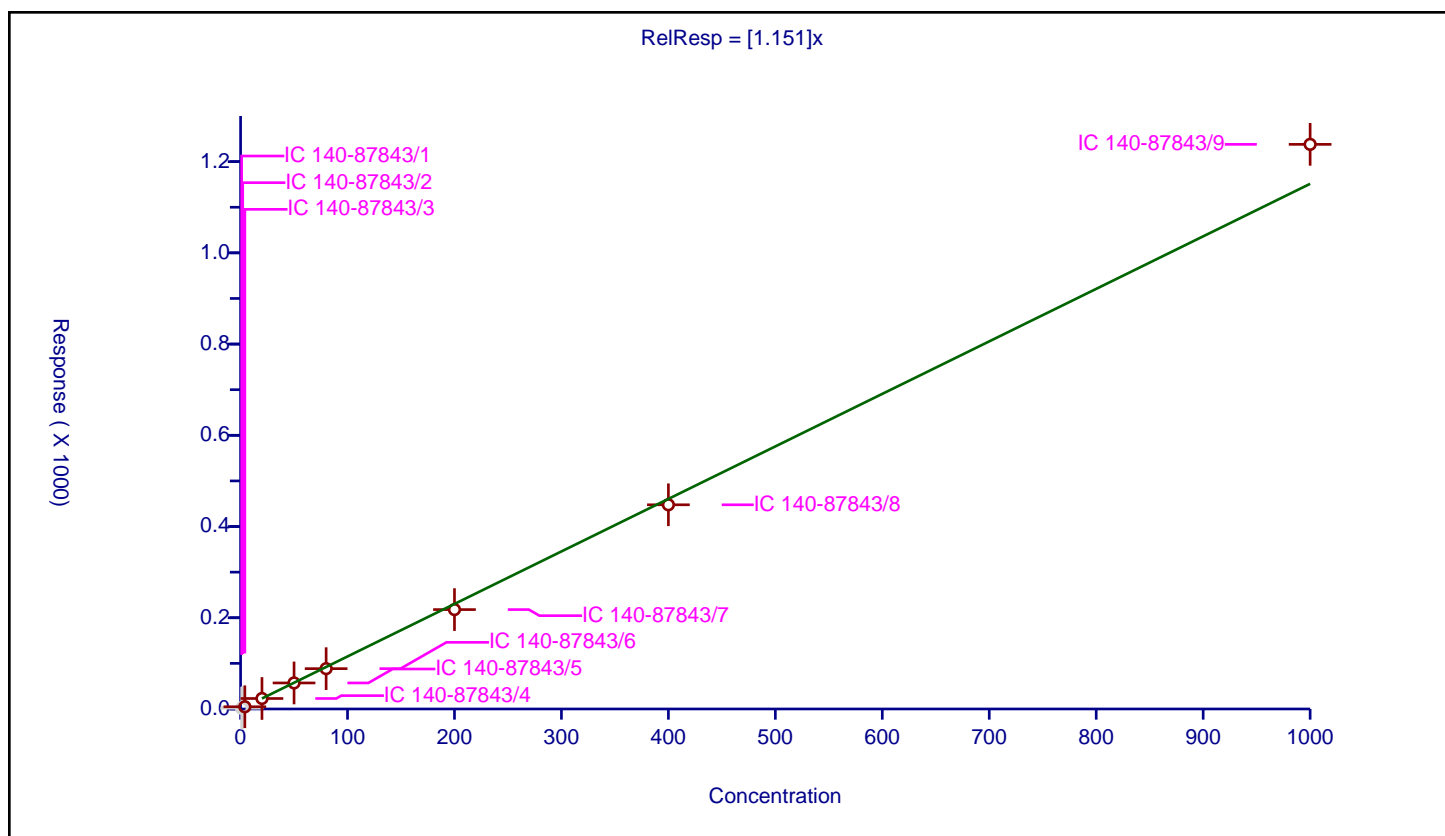
Curve Coefficients

Intercept: 0
Slope: 1.151

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.670143	100.0	7580251.0	1.670143	N
2	IC 140-87843/2	2.0	3.655564	100.0	7938309.0	1.827782	N
3	IC 140-87843/3	4.0	4.857213	100.0	8154780.0	1.214303	Y
4	IC 140-87843/4	20.0	23.025217	100.0	9182667.0	1.151261	Y
5	IC 140-87843/5	50.0	57.099674	100.0	8354538.0	1.141993	Y
6	IC 140-87843/6	80.0	88.405901	100.0	9143194.0	1.105074	Y
7	IC 140-87843/7	200.0	217.919372	100.0	9842103.0	1.089597	Y
8	IC 140-87843/8	400.0	447.660159	100.0	11997910.0	1.11915	Y
9	IC 140-87843/9	1000.0	1237.867289	100.0	13148739.0	1.237867	Y



Calibration

/ Fluorene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

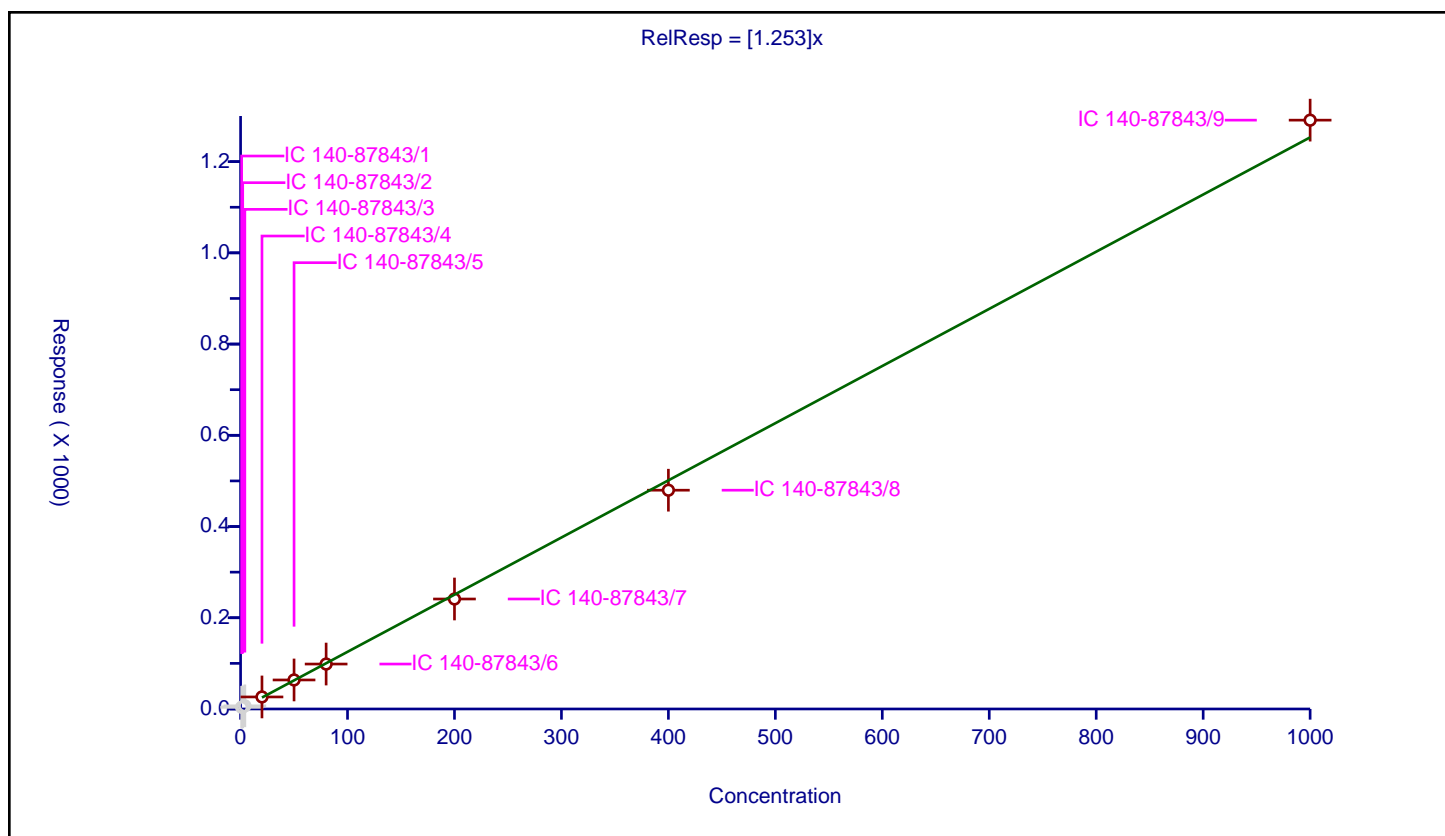
Curve Coefficients

Intercept: 0
Slope: 1.253

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.758561	100.0	2300375.0	3.758561	N
2	IC 140-87843/2	2.0	4.572201	100.0	2550369.0	2.286101	N
3	IC 140-87843/3	4.0	6.902788	100.0	2635457.0	1.725697	N
4	IC 140-87843/4	20.0	26.390271	100.0	3098767.0	1.319514	Y
5	IC 140-87843/5	50.0	63.615901	100.0	2645576.0	1.272318	Y
6	IC 140-87843/6	80.0	98.518293	100.0	3234715.0	1.231479	Y
7	IC 140-87843/7	200.0	241.108161	100.0	3285389.0	1.205541	Y
8	IC 140-87843/8	400.0	479.670436	100.0	3801144.0	1.199176	Y
9	IC 140-87843/9	1000.0	1290.908505	100.0	4314043.0	1.290909	Y



Calibration

/ Indeno[1,2,3-cd]pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

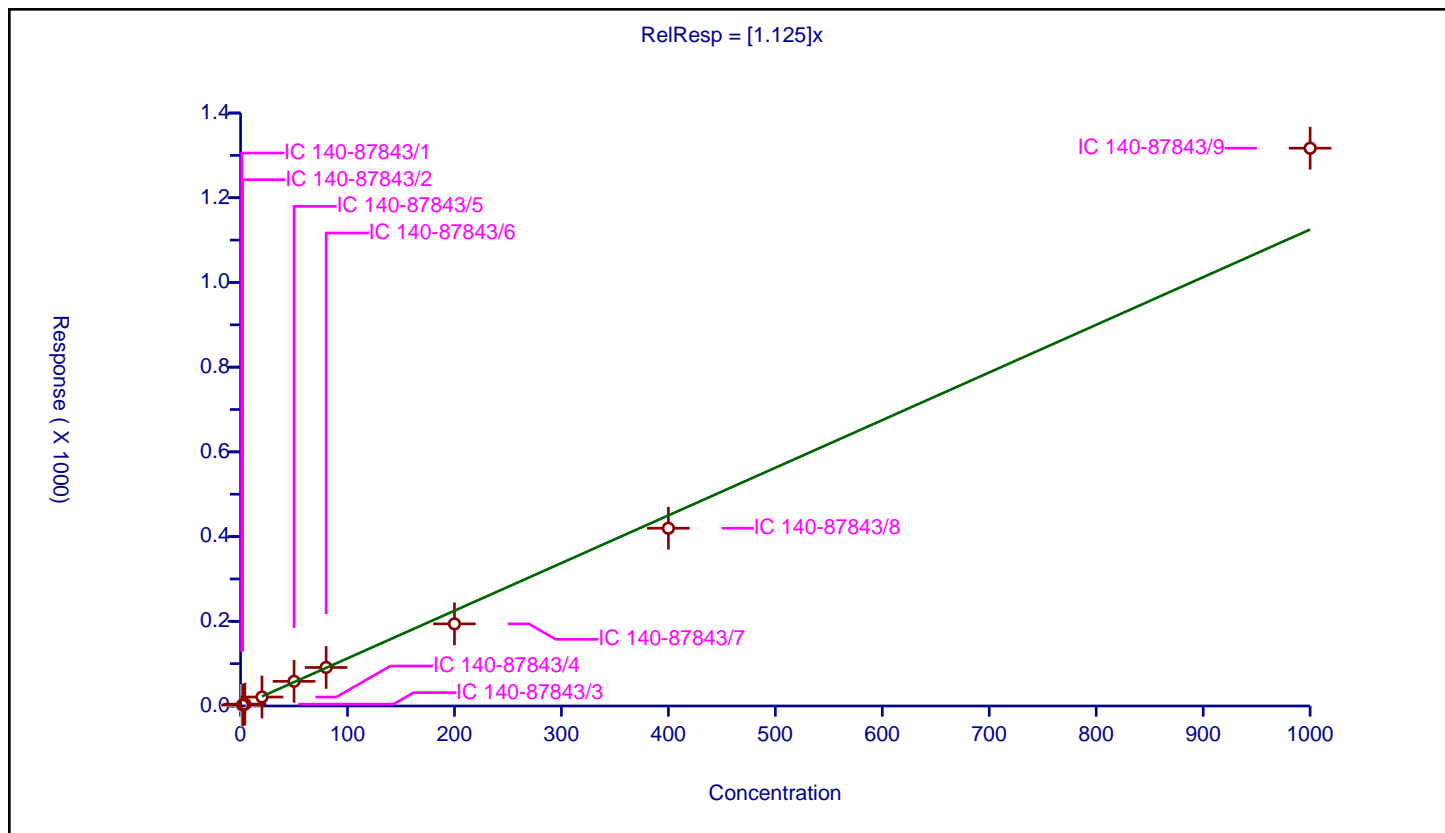
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.318012	100.0	4910654.0	1.318012	N
2	IC 140-87843/2	2.0	2.411491	100.0	5418391.0	1.205745	Y
3	IC 140-87843/3	4.0	4.39401	100.0	4630053.0	1.098503	Y
4	IC 140-87843/4	20.0	21.156291	100.0	5157889.0	1.057815	Y
5	IC 140-87843/5	50.0	58.243265	100.0	4835402.0	1.164865	Y
6	IC 140-87843/6	80.0	90.975877	100.0	5212706.0	1.137198	Y
7	IC 140-87843/7	200.0	193.881836	100.0	6349503.0	0.969409	Y
8	IC 140-87843/8	400.0	419.632644	100.0	7511958.0	1.049082	Y
9	IC 140-87843/9	1000.0	1316.924276	100.0	8585756.0	1.316924	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

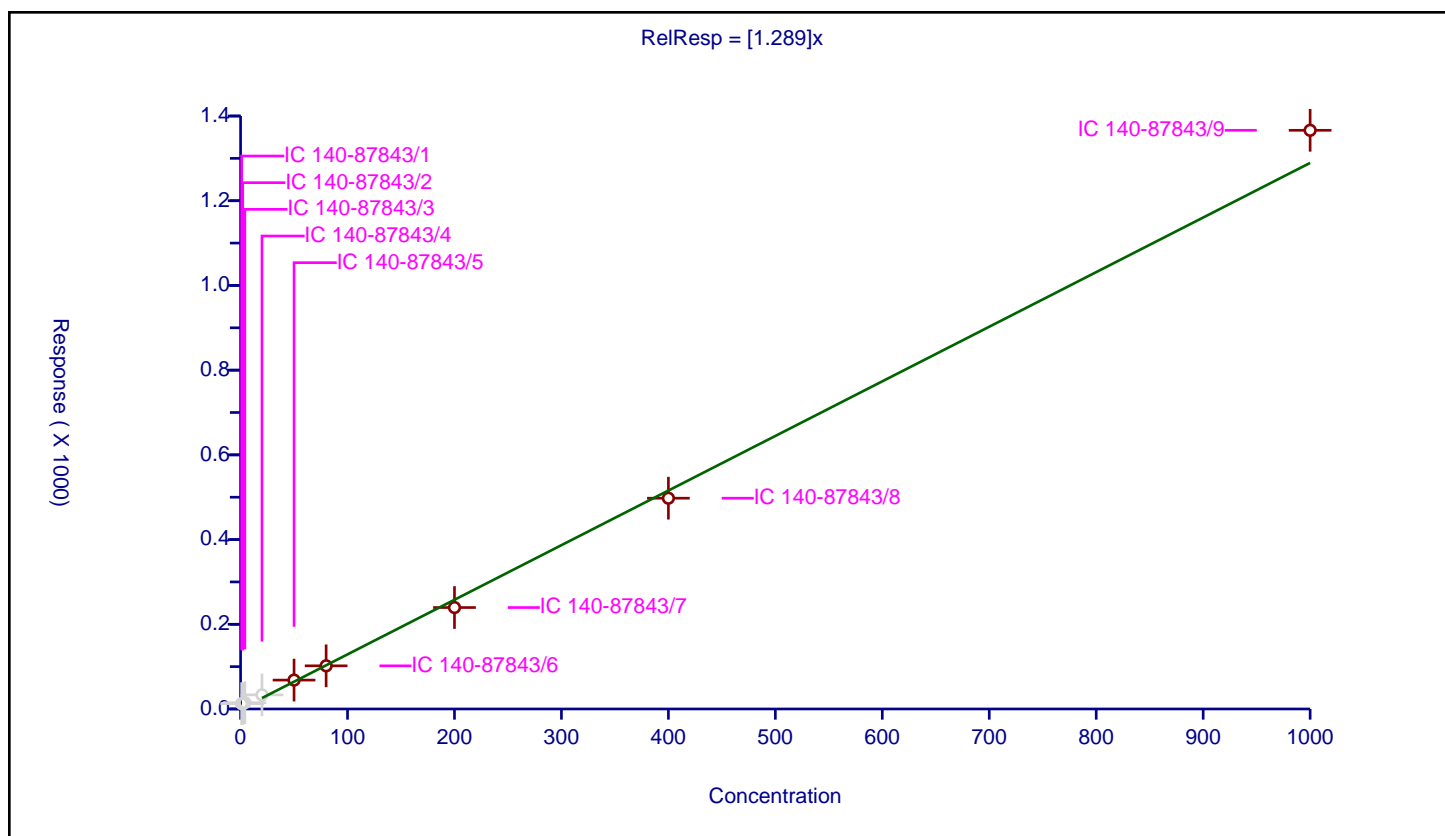
Curve Coefficients

Intercept: 0
Slope: 1.289

Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	12.609299	100.0	9958539.0	12.609299	N
2	IC 140-87843/2	2.0	12.614015	100.0	10224350.0	6.307007	N
3	IC 140-87843/3	4.0	14.91186	100.0	10437430.0	3.727965	N
4	IC 140-87843/4	20.0	33.315879	100.0	11716317.0	1.665794	N
5	IC 140-87843/5	50.0	68.215465	100.0	10955076.0	1.364309	Y
6	IC 140-87843/6	80.0	101.918	100.0	10869499.0	1.273975	Y
7	IC 140-87843/7	200.0	239.530616	100.0	12167731.0	1.197653	Y
8	IC 140-87843/8	400.0	497.650715	100.0	13369772.0	1.244127	Y
9	IC 140-87843/9	1000.0	1366.234926	100.0	14774767.0	1.366235	Y



Calibration

/ Perylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

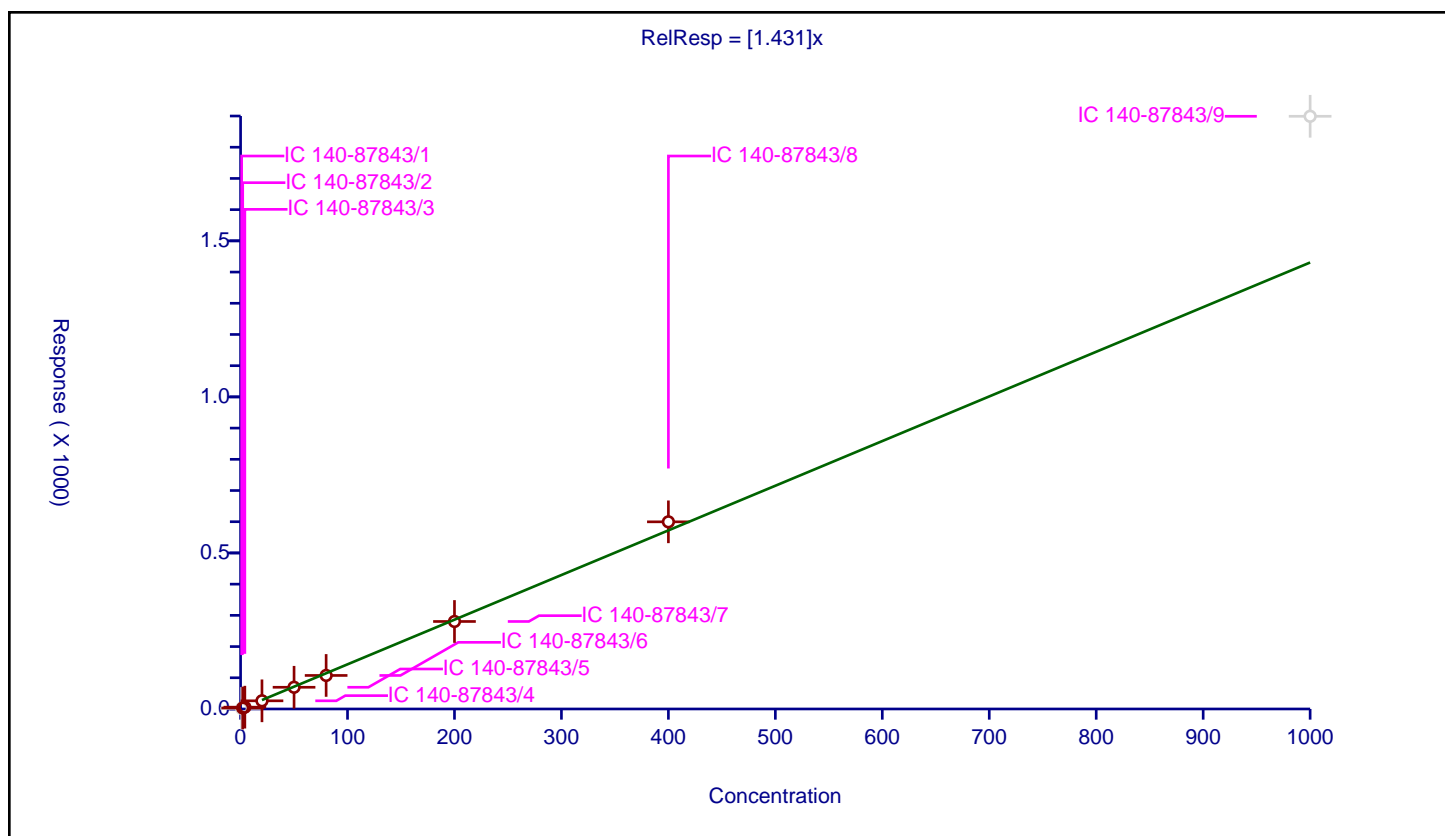
Curve Coefficients

Intercept: 0
Slope: 1.431

Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.860706	100.0	5662636.0	1.860706	N
2	IC 140-87843/2	2.0	3.203678	100.0	5811383.0	1.601839	Y
3	IC 140-87843/3	4.0	5.864918	100.0	5628212.0	1.466229	Y
4	IC 140-87843/4	20.0	26.201245	100.0	6075448.0	1.310062	Y
5	IC 140-87843/5	50.0	69.618739	100.0	6306802.0	1.392375	Y
6	IC 140-87843/6	80.0	107.439095	100.0	6805855.0	1.342989	Y
7	IC 140-87843/7	200.0	280.414458	100.0	7004851.0	1.402072	Y
8	IC 140-87843/8	400.0	599.65743	100.0	8439141.0	1.499144	Y
9	IC 140-87843/9	1000.0	1899.103982	100.0	9436646.0	1.899104	N



Calibration

/ Phenanthrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

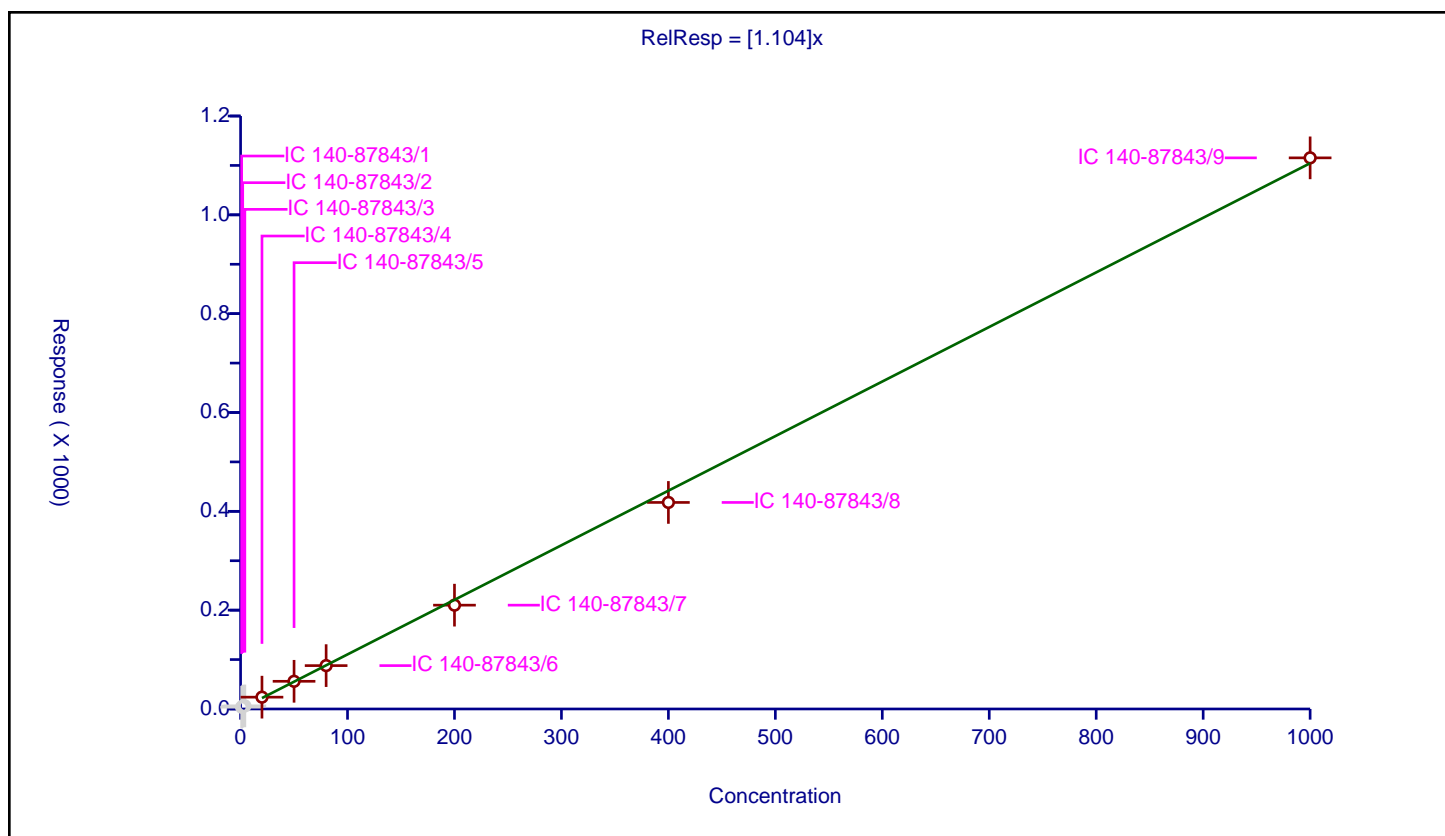
Curve Coefficients

Intercept: 0
Slope: 1.104

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.633317	100.0	3481612.0	3.633317	N
2	IC 140-87843/2	2.0	5.665578	100.0	3753474.0	2.832789	N
3	IC 140-87843/3	4.0	6.21547	100.0	3834191.0	1.553868	N
4	IC 140-87843/4	20.0	23.9578	100.0	4480403.0	1.19789	Y
5	IC 140-87843/5	50.0	56.029235	100.0	4005566.0	1.120585	Y
6	IC 140-87843/6	80.0	87.776848	100.0	4194540.0	1.097211	Y
7	IC 140-87843/7	200.0	210.128129	100.0	4953590.0	1.050641	Y
8	IC 140-87843/8	400.0	417.99271	100.0	5572957.0	1.044982	Y
9	IC 140-87843/9	1000.0	1115.315735	100.0	6524734.0	1.115316	Y



Calibration

/ Pyrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

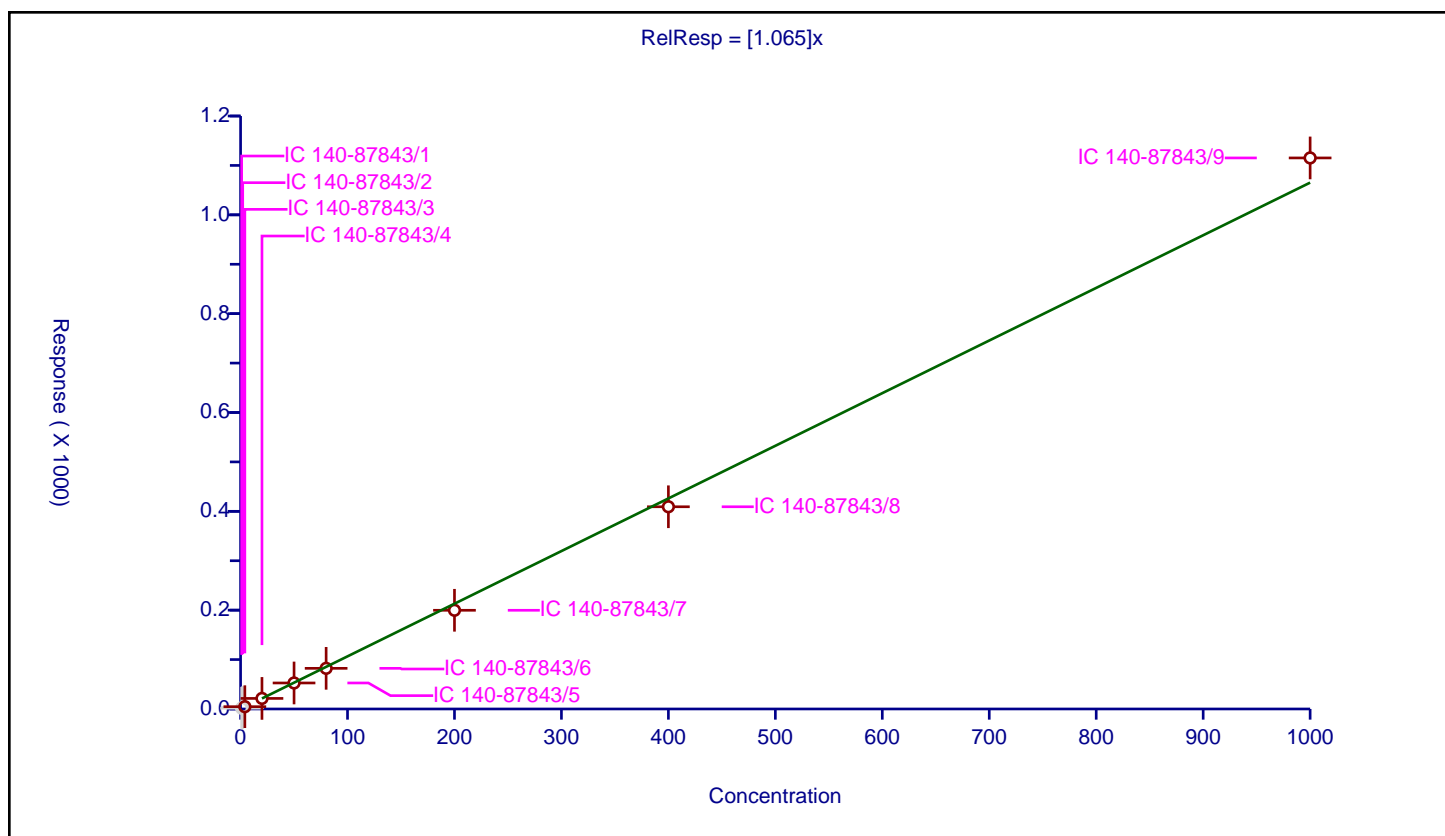
Curve Coefficients

Intercept: 0
Slope: 1.065

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.612584	100.0	8492459.0	1.612584	N
2	IC 140-87843/2	2.0	3.054751	100.0	8994056.0	1.527375	N
3	IC 140-87843/3	4.0	4.677314	100.0	9131545.0	1.169328	Y
4	IC 140-87843/4	20.0	21.380309	100.0	10292274.0	1.069015	Y
5	IC 140-87843/5	50.0	52.636984	100.0	9271369.0	1.05274	Y
6	IC 140-87843/6	80.0	82.26308	100.0	10295818.0	1.028289	Y
7	IC 140-87843/7	200.0	199.756681	100.0	11042272.0	0.998783	Y
8	IC 140-87843/8	400.0	409.246038	100.0	13356986.0	1.023115	Y
9	IC 140-87843/9	1000.0	1115.144428	100.0	15391681.0	1.115144	Y



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C6-Naphthalene	Ave	3.375	3.132		92.8	100	-7.2	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.509		94.1	100	-5.9	30.0
13C6-Acenaphthylene	Ave	1.652	1.696		103	100	2.6	30.0
13C6-Acenaphthene	Ave	0.9792	0.9779		99.9	100	-0.1	30.0
13C6-Fluorene	Ave	0.8898	0.7920		89.0	100	-11.0	30.0
13C6-Phenanthrene	Ave	0.5724	0.6236		109	100	8.9	30.0
13C6-Anthracene	Ave	0.4523	0.4905		108	100	8.4	30.0
13C6-Fluoranthrene	Ave	1.199	1.318		110	100	9.9	30.0
13C3-Pyrene	Ave	1.351	1.457		108	100	7.9	30.0
13C6-Benzo (a) anthracene	Ave	1.519	1.656		109	100	9.0	30.0
13C6-Chrysene	Ave	1.629	1.770		109	100	8.7	30.0
13C6-Benzo (b) fluoranthene	Ave	1.462	1.616		111	100	10.5	30.0
13C6-Benzo (k) fluoranthene	Ave	1.751	1.936		111	100	10.6	30.0
13C4-Benzo (e) pyrene	Ave	1.637	1.838		112	100	12.3	30.0
13C4-Benzo (a) pyrene	Ave	1.551	1.689		109	100	8.9	30.0
Perylene-d12	Ave	1.192	1.234		104	100	3.5	30.0
13C6-Indeno (1,2,3-cd) pyrene	Ave	1.022	1.167		114	100	14.2	30.0
13C6-Dibenz (a,h) anthracene	Ave	1.055	1.350		128	100	27.9	30.0
13C12-Benzo (ghi) perylene	Ave	1.275	1.497		117	100	17.4	30.0

FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Naphthalene	AveID	1.289	1.282		497	500	99	70-130
2-Methylnaphthalene	AveID	1.279	1.258		492	500	98	70-130
Acenaphthylene	AveID	2.366	2.441		516	500	103	70-130
Acenaphthene	AveID	1.270	1.246		491	500	98	70-130
Fluorene	AveID	1.253	1.254		500	500	100	70-130
Phenanthrene	AveID	1.104	1.110		503	500	101	70-130
Anthracene	AveID	1.359	1.325		488	500	98	70-130
Fluoranthene	AveID	1.151	1.174		510	500	102	70-130
Pyrene	AveID	1.065	1.115		524	500	105	70-130
Benzo[a]anthracene	AveID	0.9739	0.9740		500	500	100	70-130
Chrysene	AveID	0.9815	1.015		517	500	103	70-130
Benzo[b]fluoranthene	AveID	1.125	1.167		519	500	104	70-130
Benzo[k]fluoranthene	AveID	1.127	1.146		508	500	102	70-130
Benzo[e]pyrene	AveID	1.001	1.252		625	500	125	70-130
Benzo[a]pyrene	AveID	1.113	1.208		543	500	109	70-130
Perylene	AveID	1.431	1.620		566	500	113	70-130
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.094		486	500	97	70-130
Dibenz(a,h)anthracene	AveID	1.131	1.121		495	500	99	70-130
Benzo[g,h,i]perylene	AveID	1.284	1.262		491	500	98	70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist:
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:41	13477442		3.3746	92.8	92.8	0.005803	0.005803	92.80	a
Naphthalene	11:41	86402026		1.2893	497.3	497.3	0.0680	0.0680	99.45	a
D 13C6-2-Methylnaphthalene	13:55	6493524		1.6031	94.1	94.1	0.001416	0.001416	94.12	
2-Methylnaphthalene	13:55	40858535		1.2786	492.1	492.1	0.0277	0.0277	98.43	
D 13C6-Acenaphthylene	16:47	7297545		1.6520	102.6	102.6	0.002237	0.002237	103	
Acenaphthylene	16:47	51372833		2.3661	515.9	515.9	0.0307	0.0307	103	
* Acenaphthene-d10	17:21	4303576		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:28	4208528		0.9792	99.9	99.9	0.002649	0.002649	99.87	
Acenaphthene	17:28	26212060		1.2697	490.5	490.5	0.0440	0.0440	98.11	
Fluorene	19:45	21363714		1.2532	500.2	500.2	0.0507	0.0507	100	
D 13C6-Fluorene	19:45	3408512		0.8898	89.0	89.0	0.001603	0.001603	89.01	
D 13C6-Phenanthrene	25:08	5503772		0.5724	108.9	108.9	0.006954	0.006954	109	
Phenanthrene	25:08	30546294		1.1044	502.5	502.5	0.0480	0.0480	101	
D 13C6-Anthracene	25:28	4329635		0.4523	108.4	108.4	0.008801	0.008801	108	
Anthracene	25:29	28688367		1.3586	487.7	487.7	0.0511	0.0511	97.54	
D 13C6-Fluoranthrene	33:53	11635330		1.1994	109.9	109.9	0.0283	0.0283	110	
Fluoranthene	33:54	68280213		1.1513	509.7	509.7	0.0239	0.0239	102	
* Pyrene-d10	35:26	8826302		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	12863803		1.3512	107.9	107.9	0.0150	0.0150	108	
Pyrene	35:35	71732321		1.0652	523.5	523.5	0.0246	0.0246	105	
D 13C6-Benzo(a)anthracene	46:07	11144764		1.5189	109.0	109.0	0.0119	0.0119	109	
Benzo[a]anthracene	46:08	54276958		0.9739	500.1	500.1	0.0462	0.0462	100	
D 13C6-Chrysene	46:24	11912007		1.6287	108.7	108.7	0.0111	0.0111	109	
Chrysene	46:24	60434818		0.9815	516.9	516.9	0.0455	0.0455	103	
D 13C6-Benzo(b)fluoranthene	54:40	10876736		1.4621	110.5	110.5	0.001204	0.001204	111	
Benzo[b]fluoranthene	54:40	63447136		1.1249	518.6	518.6	0.007804	0.007804	104	
D 13C6-Benzo(k)fluoranthene	54:47	13027765		1.7507	110.6	110.6	0.001005	0.001005	111	
Benzo[k]fluoranthene	54:47	74650027		1.1271	508.4	508.4	0.006593	0.006593	102	
* Benzo(e)pyrene-d12	55:31	6729891		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:36	77451657		1.0013	625.2	625.2	0.006018	0.006018	125	
D 13C4-Benzo(e)pyrene	55:36	12371926		1.6368	112.3	112.3	0.009057	0.009057	112	
Benzo[a]pyrene	55:44	68663102		1.1130	542.7	542.7	0.005983	0.005983	109	
D 13C4-Benzo(a)pyrene	55:44	11367582		1.5508	108.9	108.9	0.009560	0.009560	109	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D Perylene-d12	55:54	8303002		1.1917	103.5	103.5	0.0118	0.0118	104	
Perylene	55:58	67252708		1.4307	566.2	566.2	0.006120	0.006120	113	E
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	7856573		1.0218	114.2	114.2	0.0102	0.0102	114	
Indeno[1,2,3-cd]pyrene	58:03	42975857		1.1249	486.3	486.3	0.0191	0.0191	97.25	
D 13C6-Dibenz(a,h)anthracene	58:07	9084543		1.0553	127.9	127.9	0.005211	0.005211	128	
Dibenz(a,h)anthracene	58:07	50916184		1.1314	495.4	495.4	0.009530	0.009530	99.08	
D 13C12-Benzo(ghi)perylene	58:30	10075910		1.2749	117.4	117.4	0.002070	0.002070	117	
Benzo[g,h,i]perylene	58:32	63565210		1.2838	491.4	491.4	0.0150	0.0150	98.28	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

61HRPAHICVW_00003

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033168-010
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist:
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											a
134.0828	11:41	11:33	8	0.673	13477442	4456210	121	302	36828		a
Naphthalene											a
128.0626	11:41	11:34	7	1.000	86402026	29321886	1563	3907	18760		a
13C6-2-Methylnaphthalene											
148.0984	13:55	13:52	2	0.802	6493524	3094767	14	35	221055		
2-Methylnaphthalene											
142.0783	13:55	13:53	2	1.000	40858535	18807631	438	1095	42940		
13C6-Acenaphthylene											
158.0828	16:47	16:45	1	0.967	7297545	2605022	23	57	113262		E
Acenaphthylene											
152.0626	16:47	16:45	1	1.000	51372833	19549495	422	1055	46326		
Acenaphthene-d10											
164.1404	17:21	17:20	1		4303576	1542160	3	7	514053		
13C6-Acenaphthene											
160.0984	17:28	17:27	1	1.007	4208528	1451106	16	40	90694		
Acenaphthene											
154.0783	17:28	17:27	1	1.001	26212060	9398913	324	810	29009		
Fluorene											
166.0783	19:45	19:45	1	1.001	21363714	6510687	261	652	24945		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.138	3408512	1026745	9	22	114083		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	5503772	1348647	27	67	49950		E
Phenanthrene											
178.0783	25:08	25:08	0	1.000	30546294	7653415	286	715	26760		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:28	25:28	0	0.719	4329635	1030424	27	67	38164		E
Anthracene											
178.0783	25:29	25:28	0	1.000	28688367	6777672	286	715	23698		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	11635330	2307627	229	572	10077		E
Fluoranthene											
202.0783	33:54	33:54	0	1.000	68280213	14184641	254	635	55845		
Pyrene-d10											
212.1404	35:26	35:27	-1		8826302	1683039	63	157	26715		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	12863803	2422989	136	340	17816		E
Pyrene											
202.0783	35:35	35:35	0	1.000	71732321	14442359	254	635	56860		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	11144764	1990149	164	410	12135		E
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	54276958	10164420	358	895	28392		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	11912007	2004525	164	410	12223		E
Chrysene											
228.0939	46:24	46:25	-1	1.000	60434818	10772676	358	895	30091		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	10876736	2927555	16	40	182972		E
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	63447136	18656368	103	257	181130		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	13027765	3458659	16	40	216166		E
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	74650027	20444016	103	257	198486		
Benzo(e)pyrene-d12											
264.1692	55:31	55:30	0		6729891	2273085	128	320	17758		
Benzo[e]pyrene											
252.0939	55:36	55:35	0	1.000	77451657	27919087	103	257	271059		
13C4-Benzo(e)pyrene											
256.1073	55:36	55:35	0	1.002	12371926	4265039	135	337	31593		E
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	68663102	23912192	103	257	232157		
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	11367582	3859166	135	337	28586		E
Perylene-d12											
264.1692	55:54	55:54	0	1.007	8303002	2935404	128	320	22933		E
Perylene											
252.0939	55:58	55:58	0	1.001	67252708	23209487	103	257	225335		E
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	7856573	2415385	95	237	25425		E

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619icv.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	42975857	14664868	208	520	70504		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	9084543	2430000	50	125	48600		E
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	50916184	14059570	105	262	133901		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	10075910	2706985	24	60	112791		E
Benzo[g,h,i]perylene											
276.0939	58:32	58:31	0	1.000	63565210	19420580	208	520	93368		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

Reagents:

61HRPAHICVW_00003

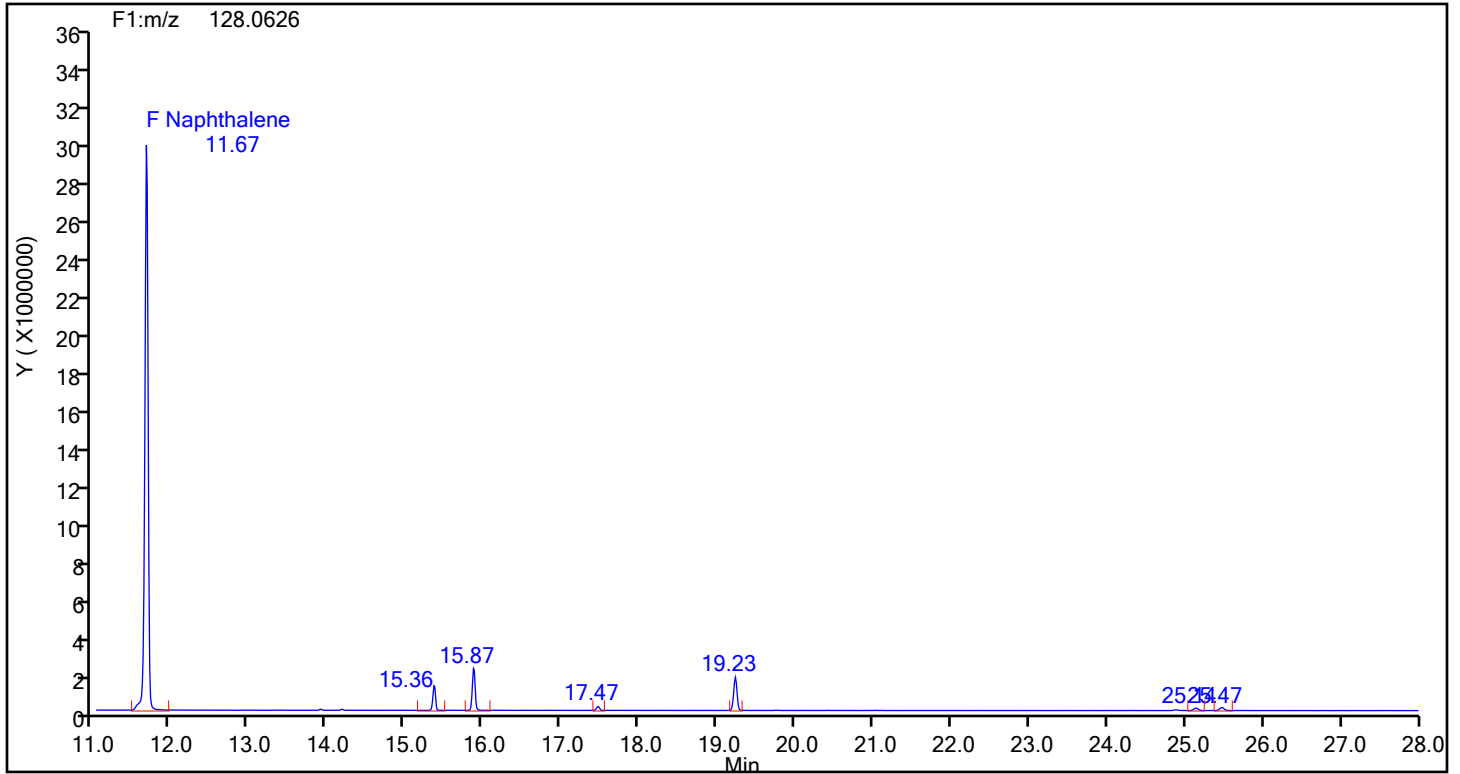
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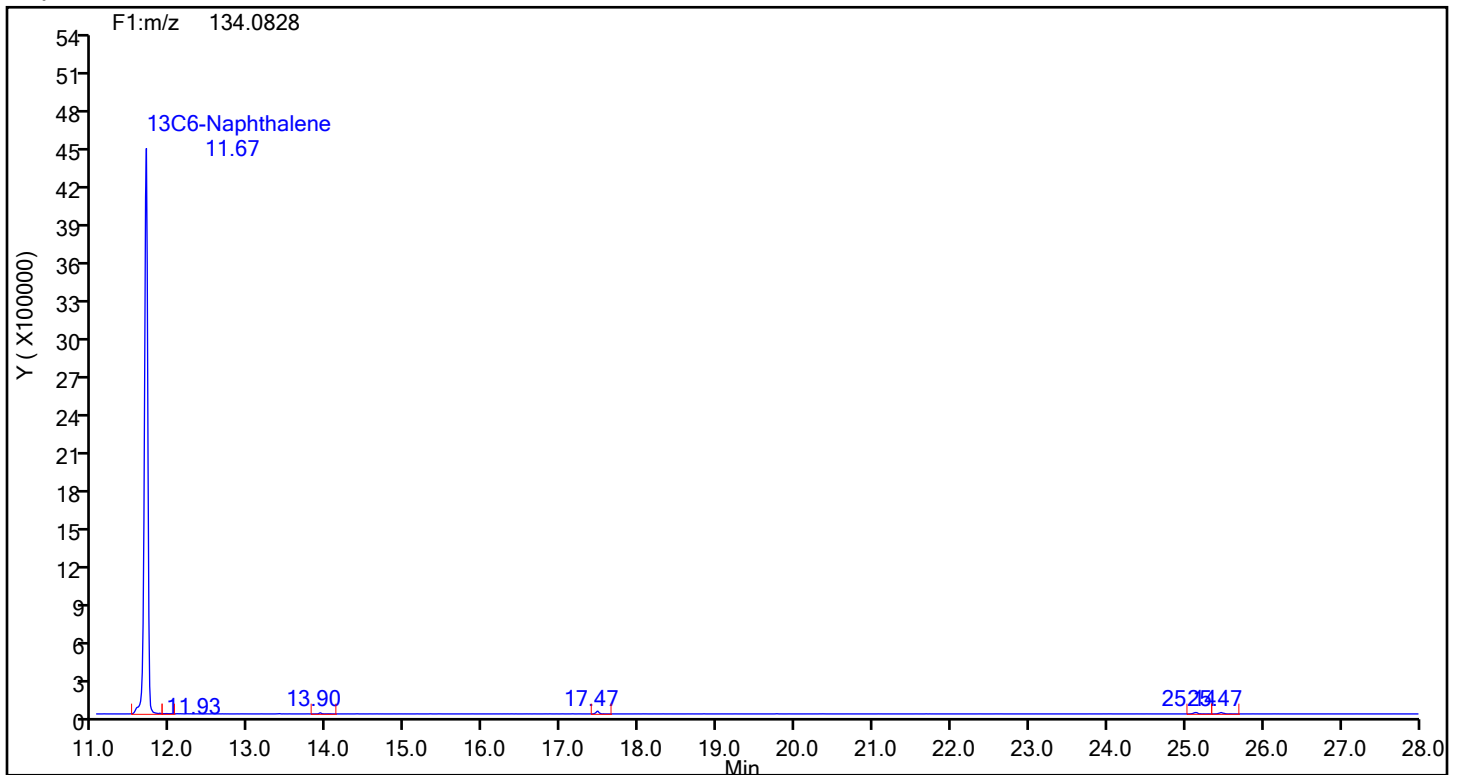
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

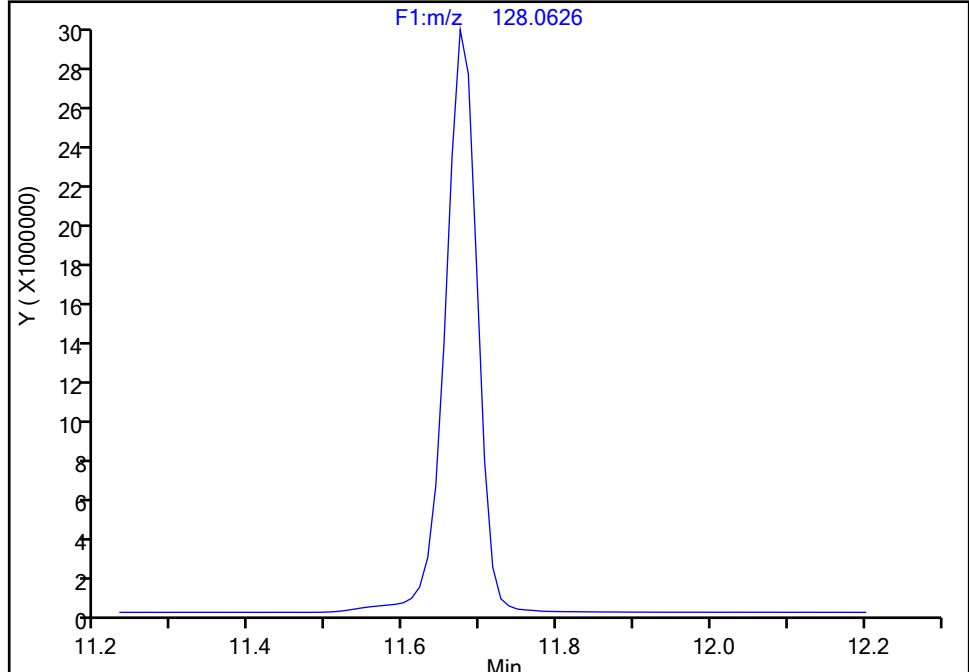
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Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Naphthalene, CAS: 91-20-3

Signal: 1

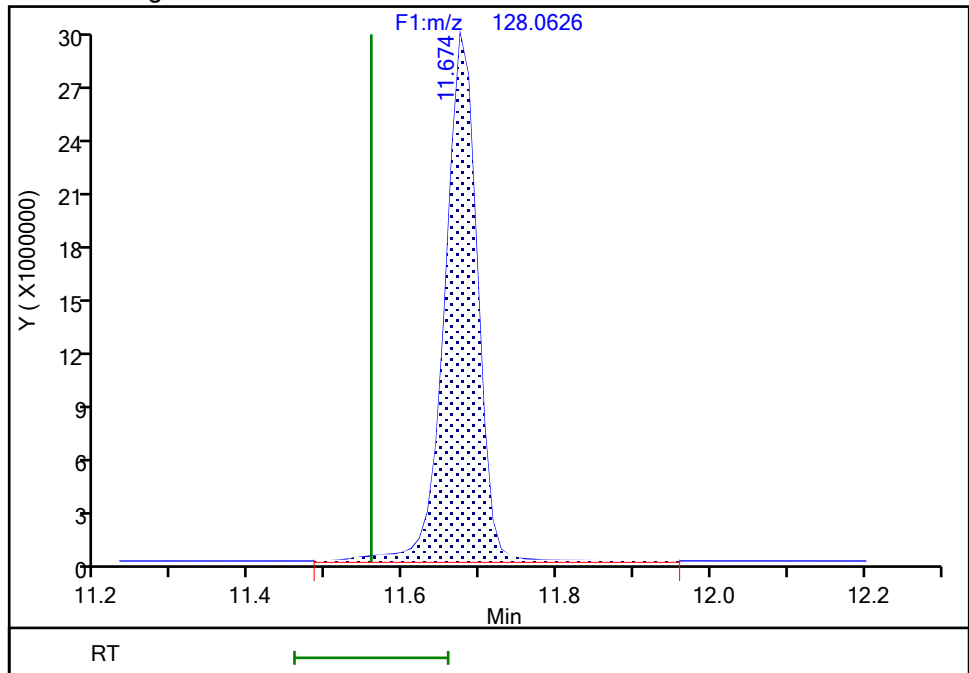
Not Detected
Expected RT: 11.56

Processing Integration Results



RT: 11.67
Area: 86402026
Amount: 497.2514
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

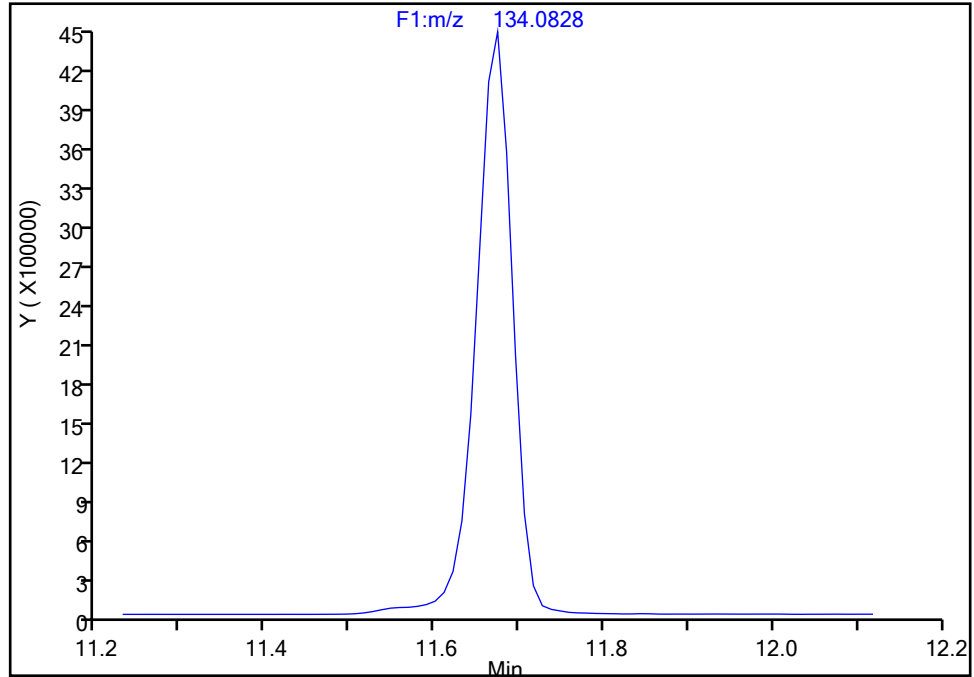
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Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

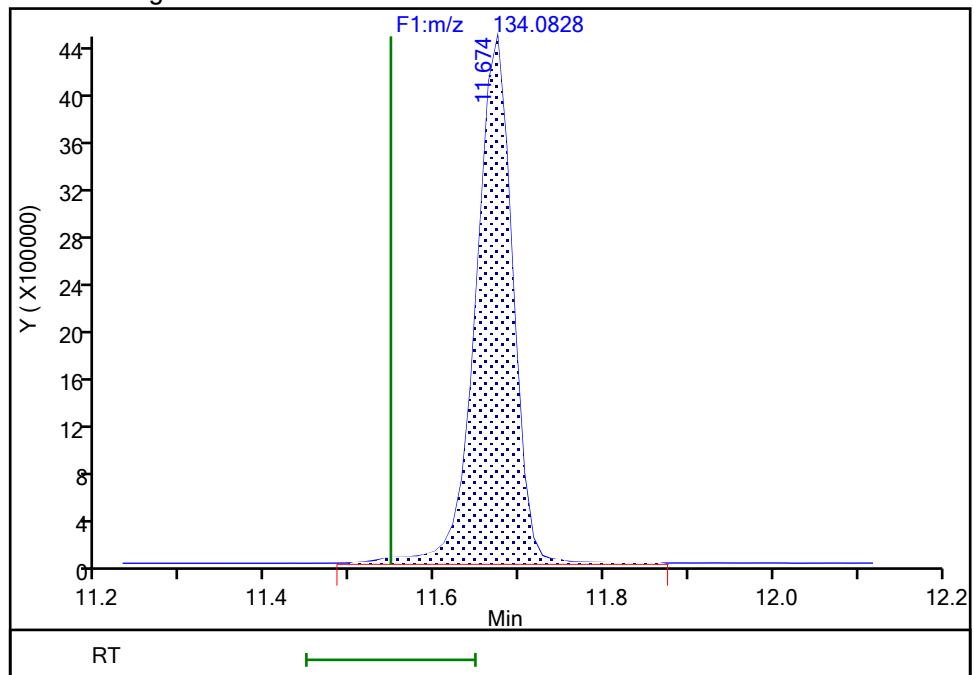
Not Detected
Expected RT: 11.55

Processing Integration Results



RT: 11.67
Area: 13477442
Amount: 92.802548
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

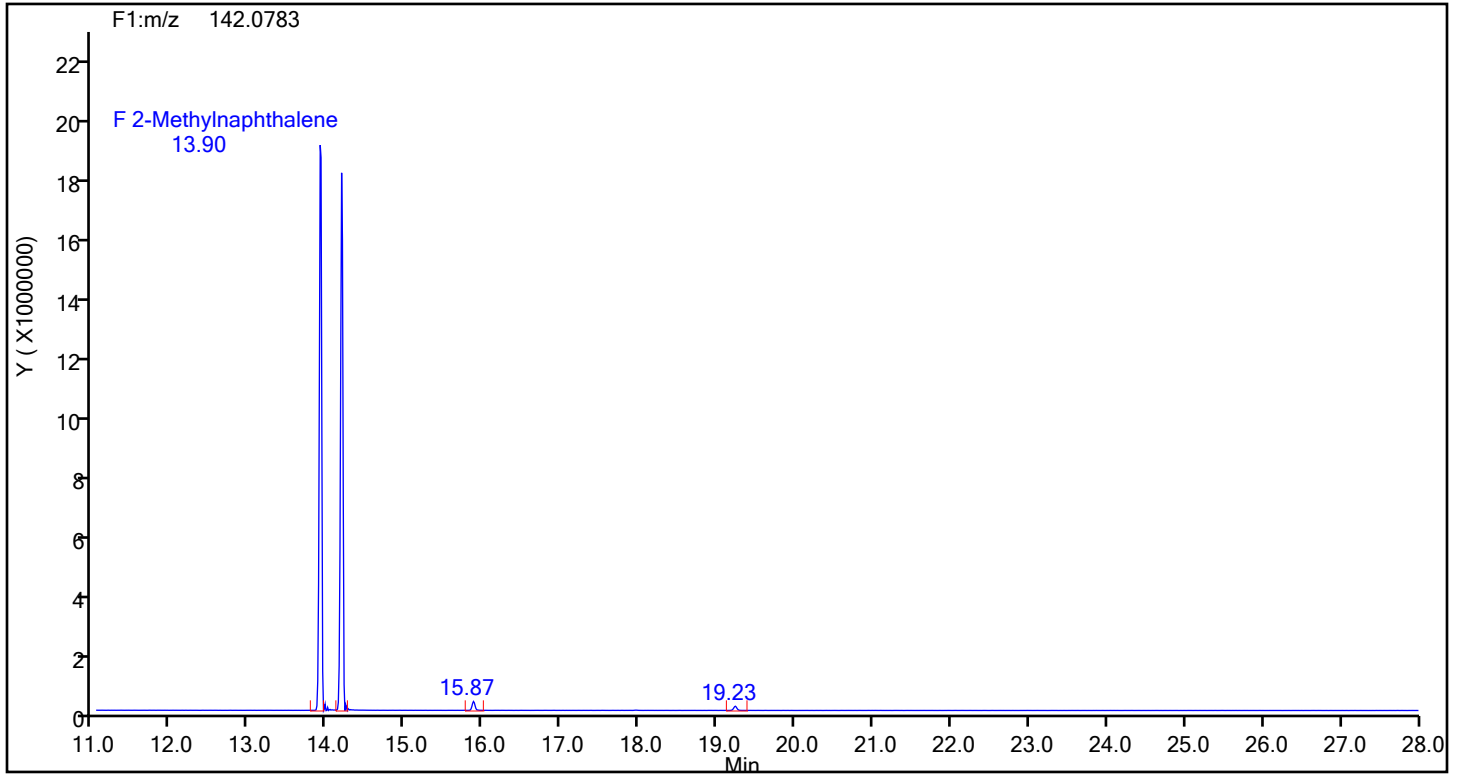
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

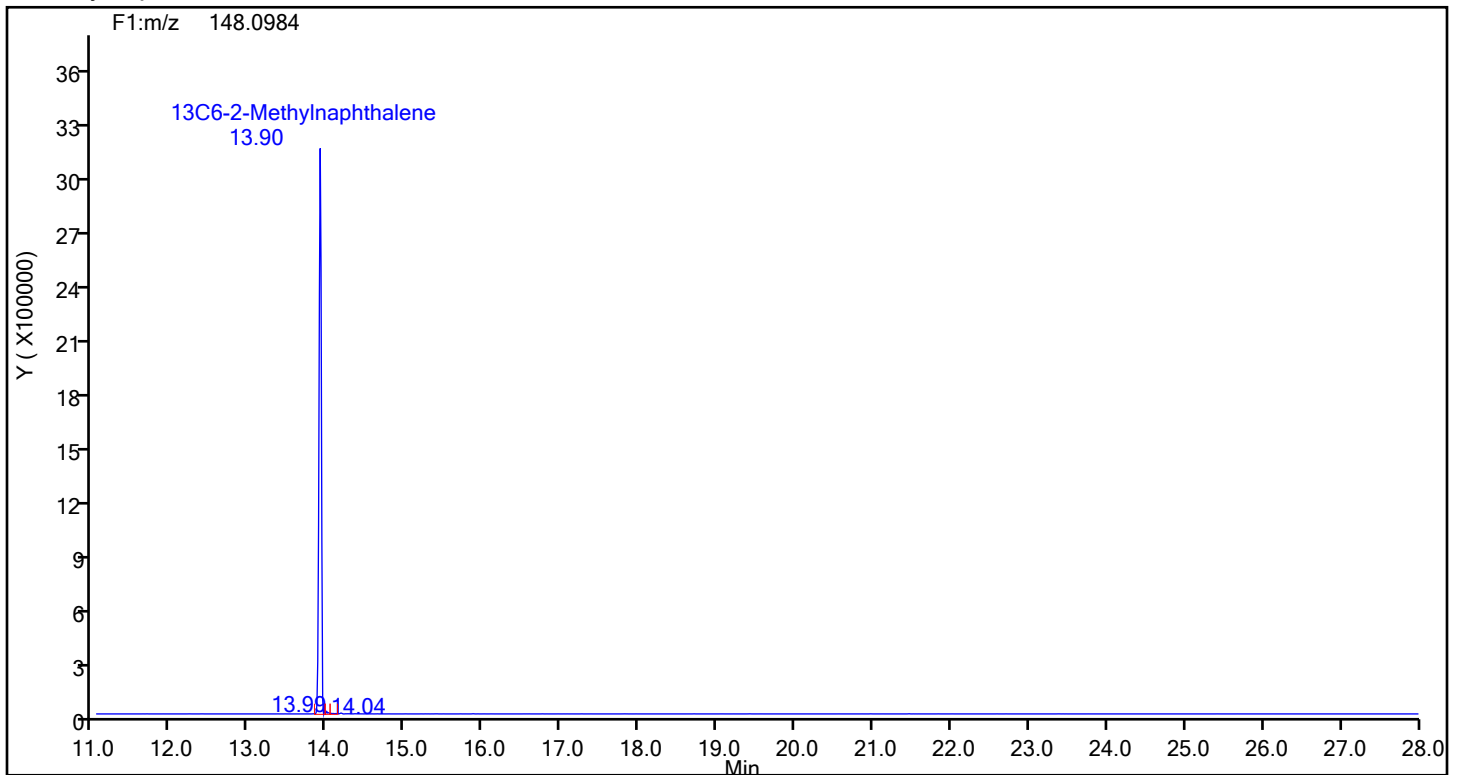
Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



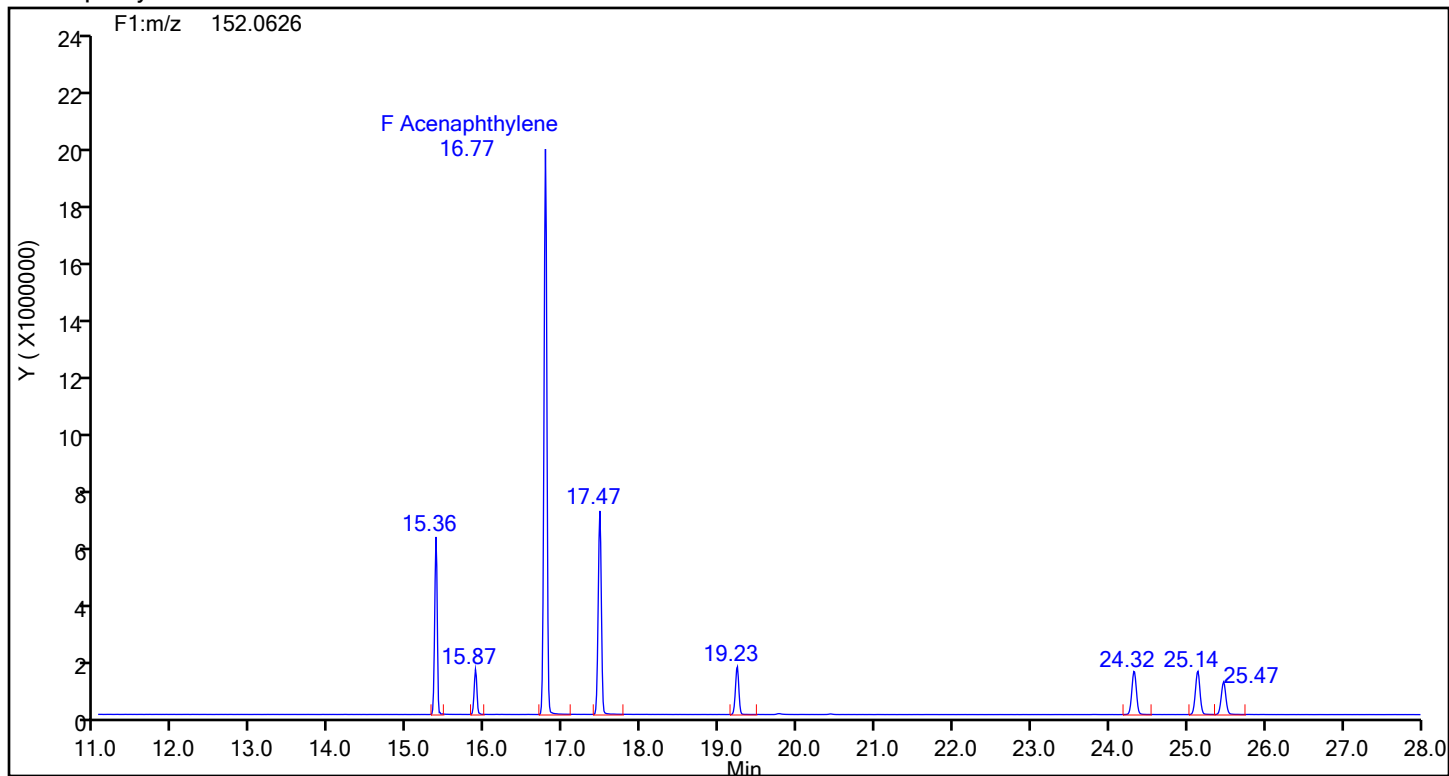
2-Methylnaphthalene Standards



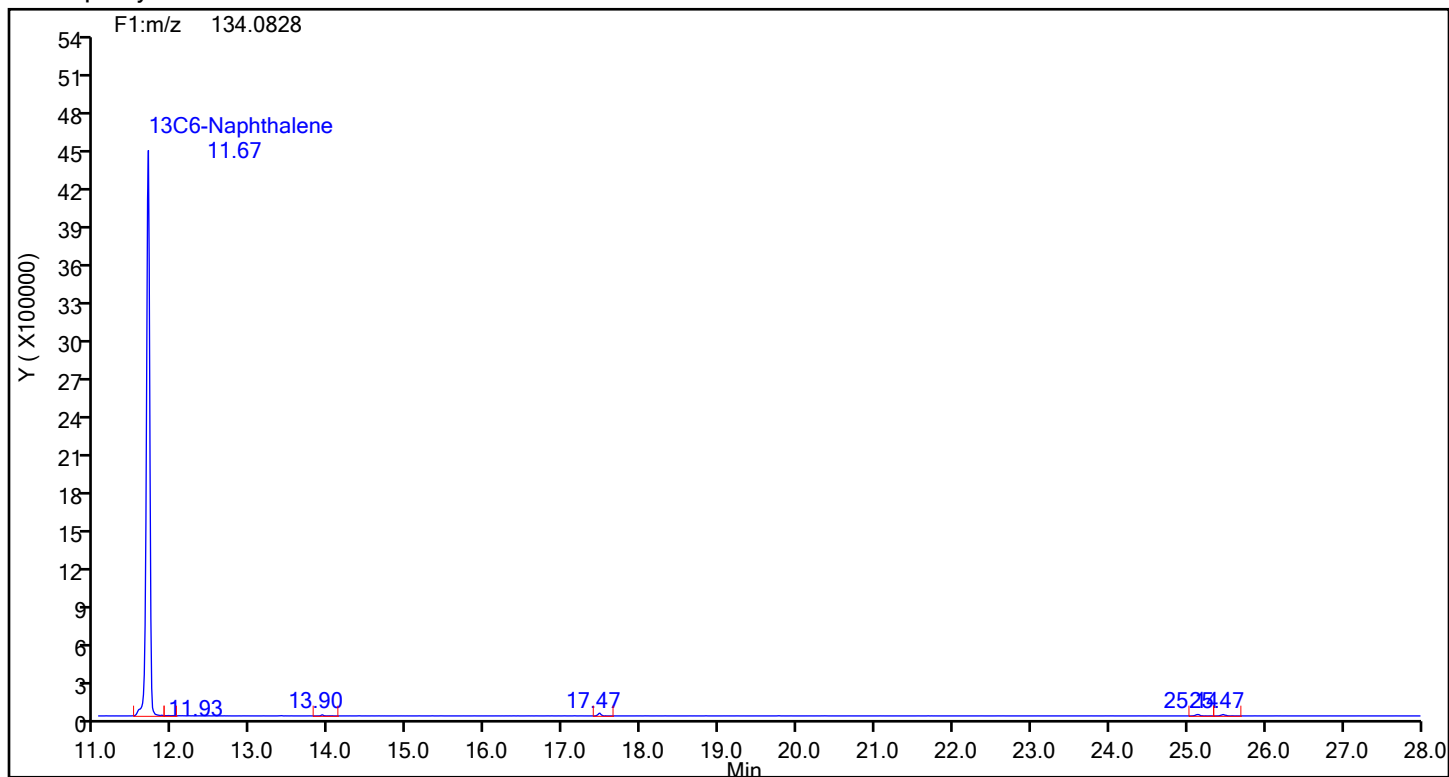
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

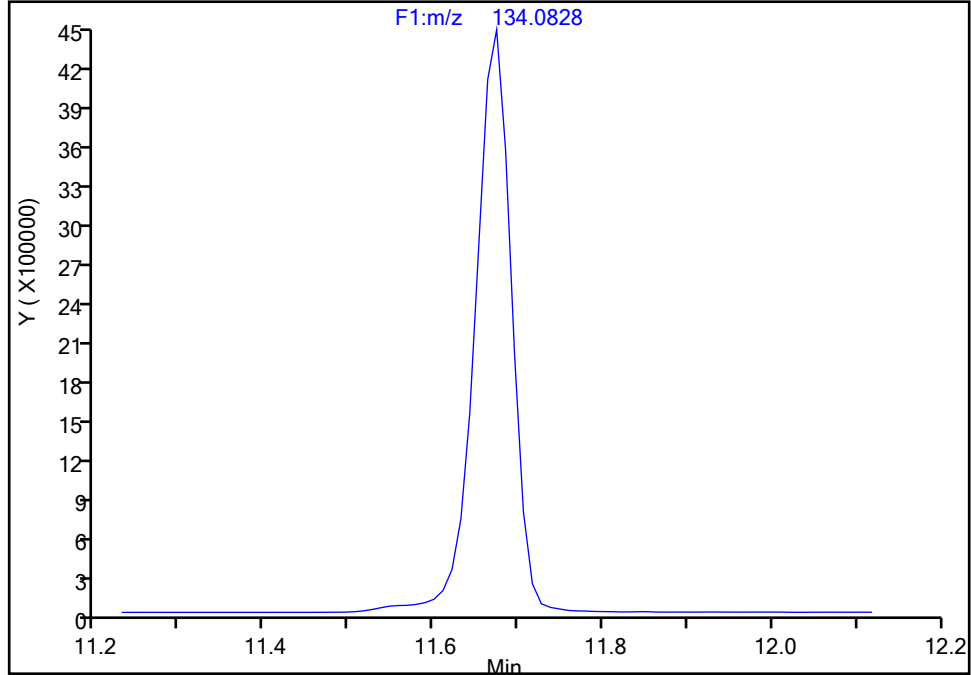
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Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

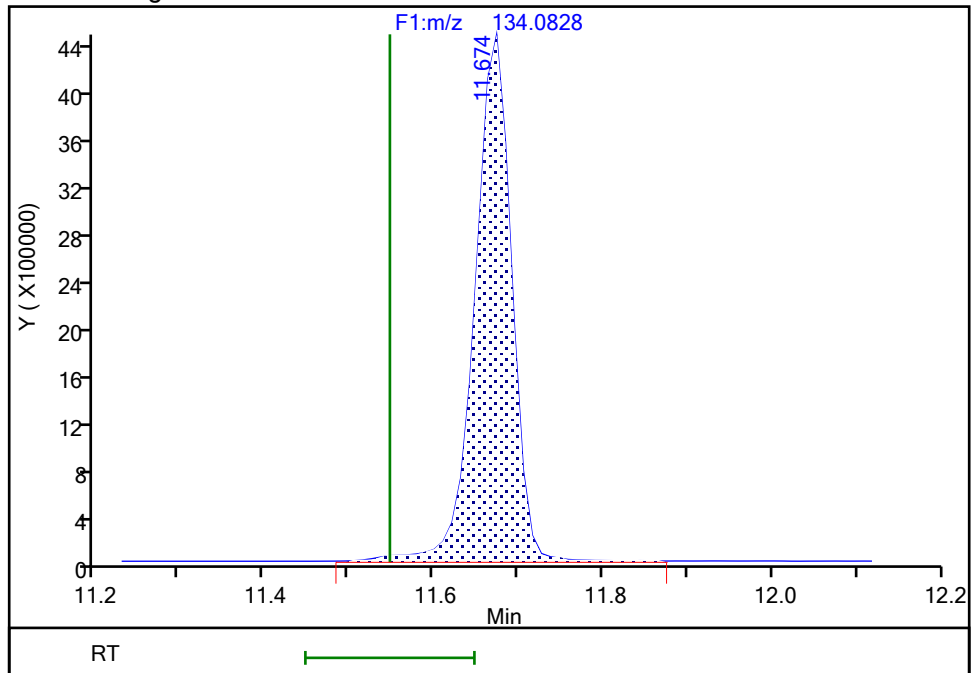
Not Detected
Expected RT: 11.55

Processing Integration Results



RT: 11.67
Area: 13477442
Amount: 92.802548
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

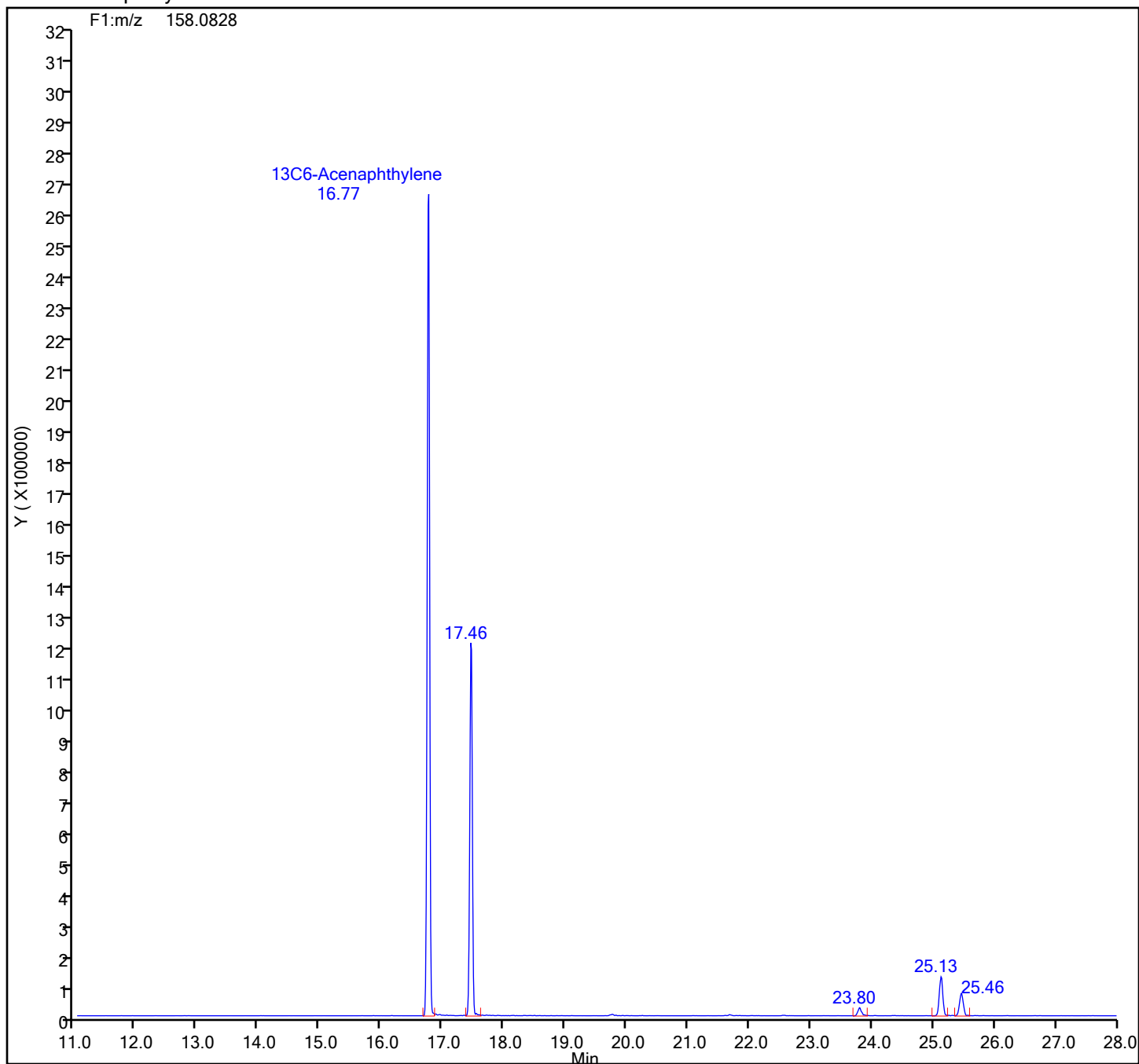
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

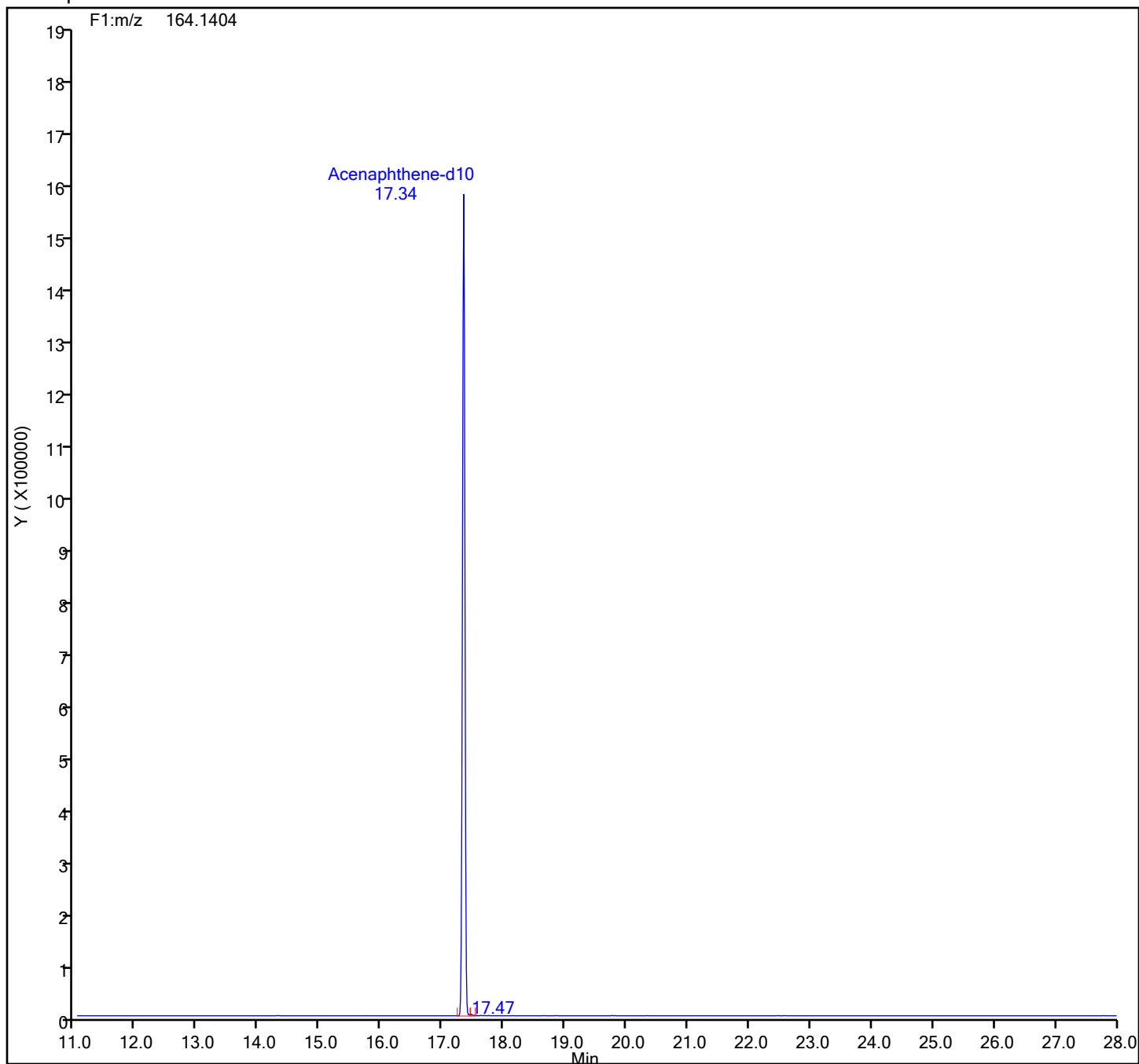
13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

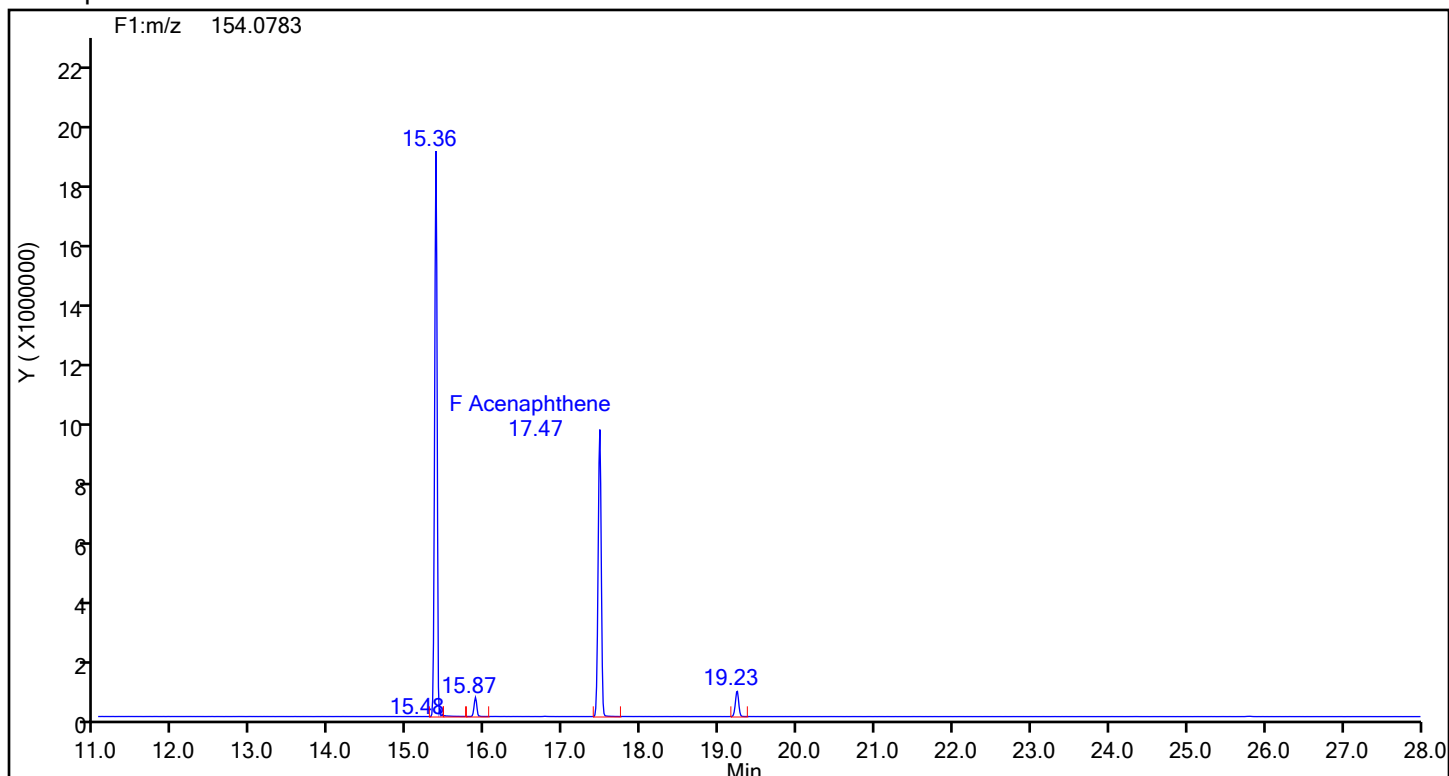
Acenaphthene-d10 Standards



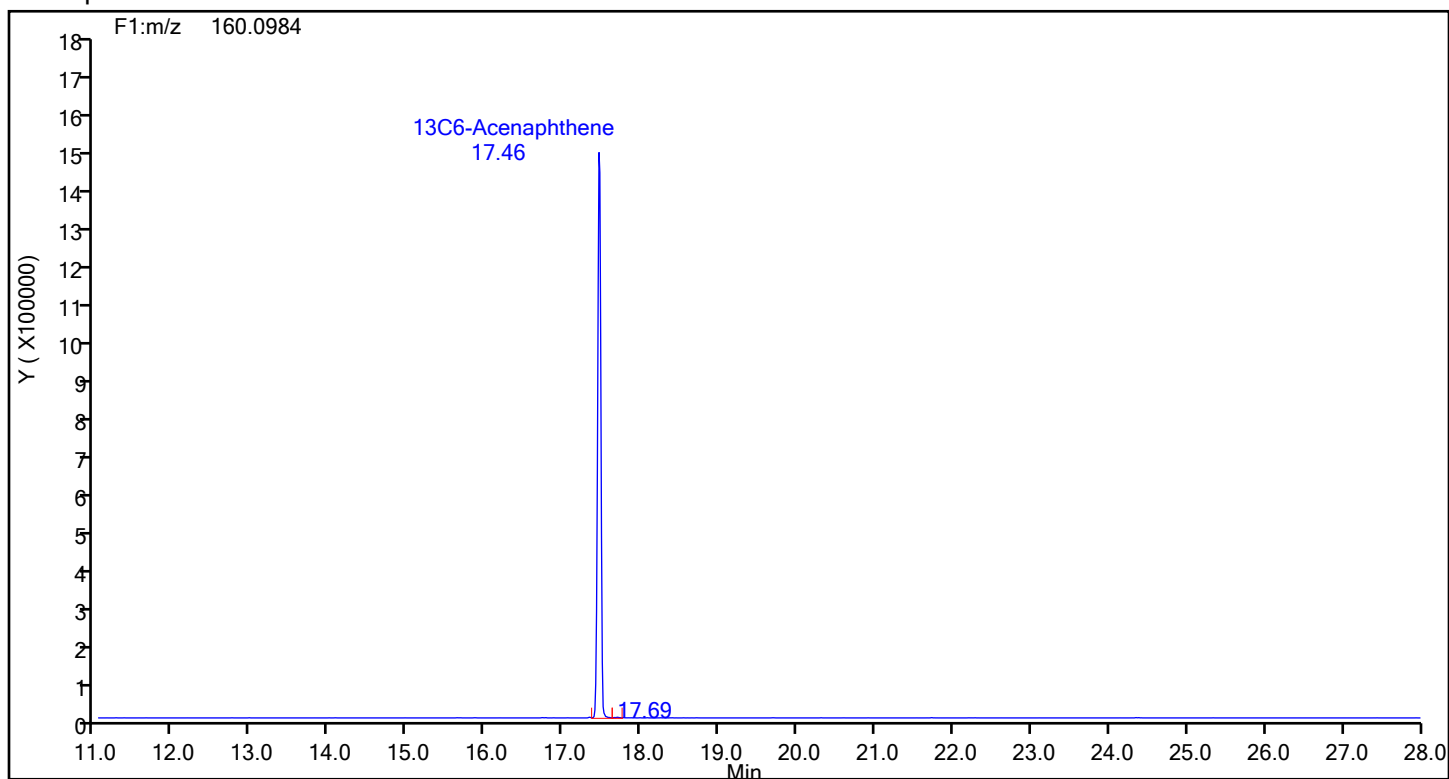
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



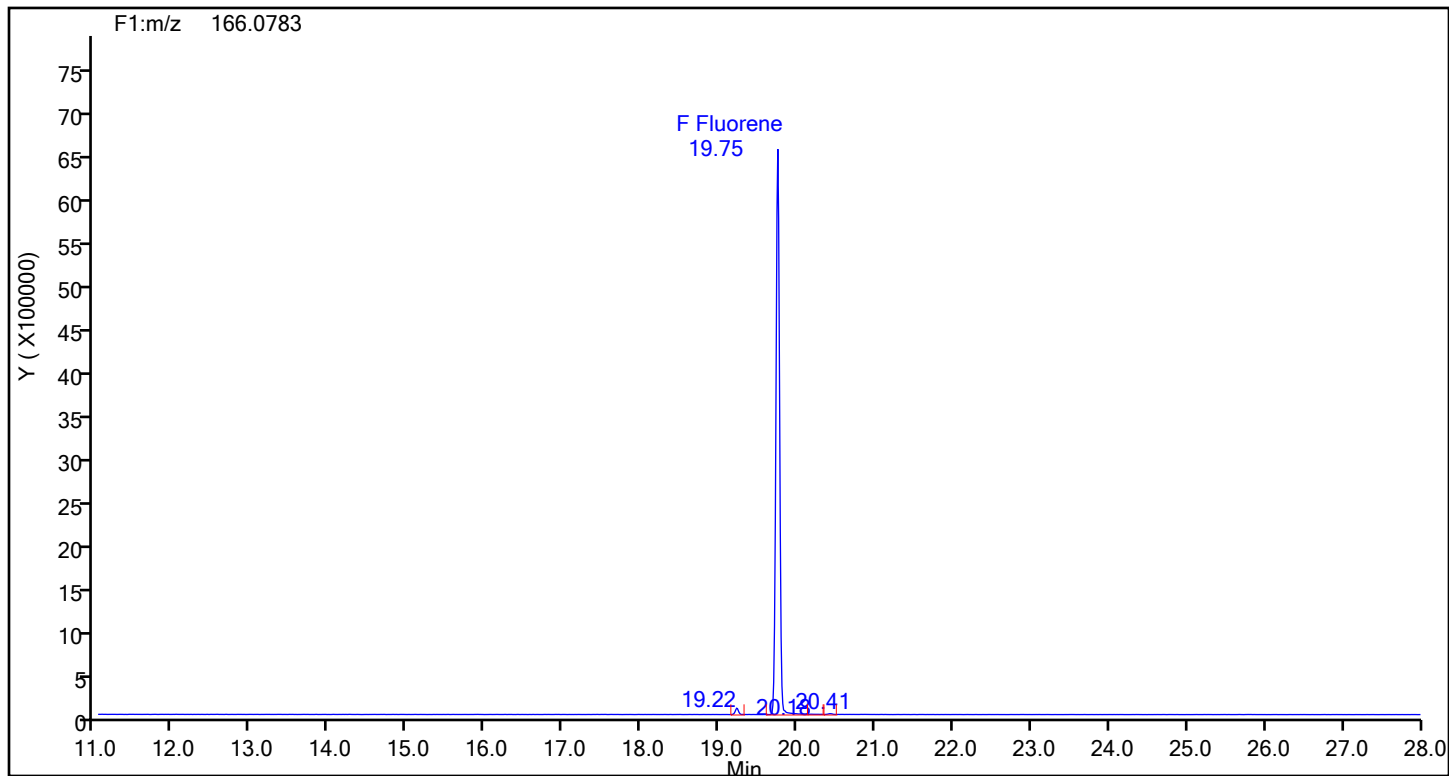
Acenaphthene Standards



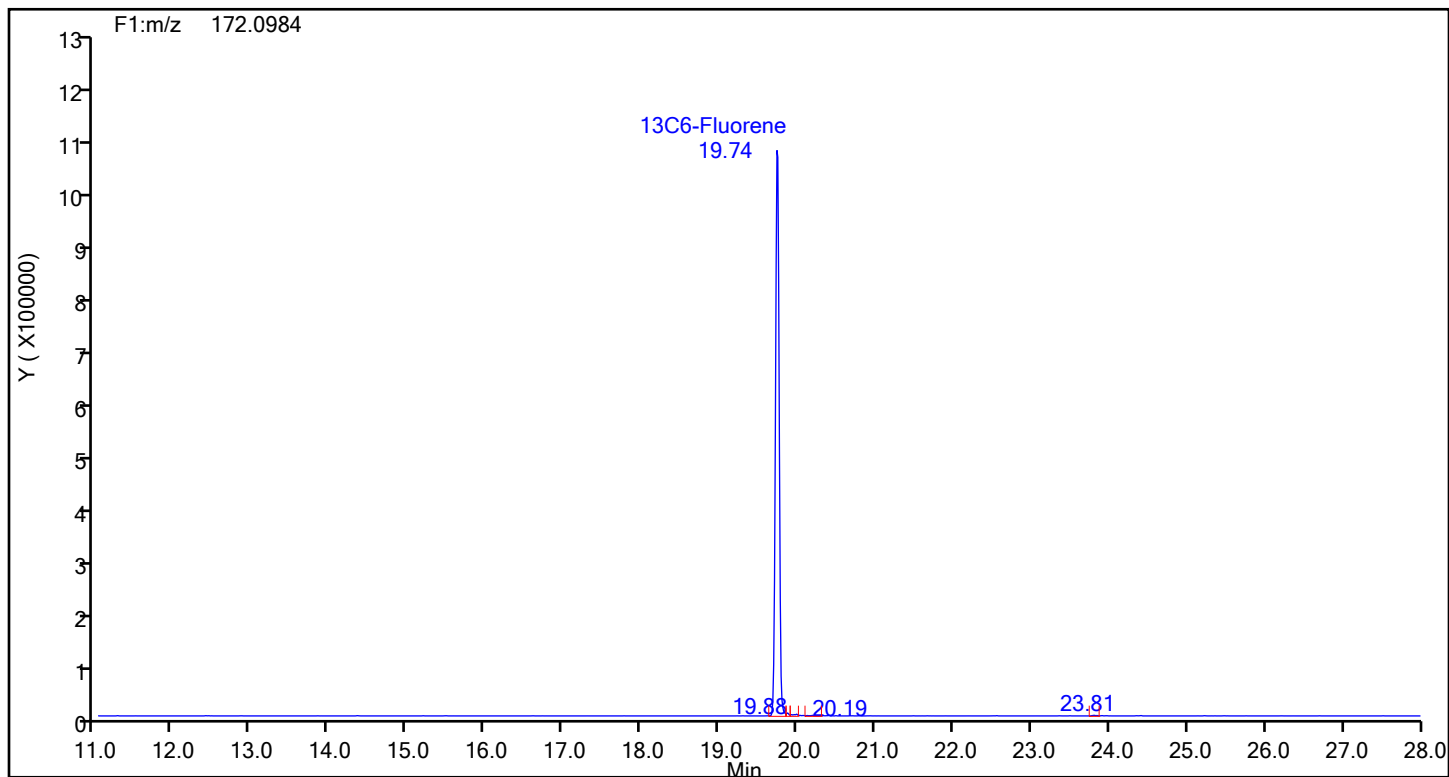
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

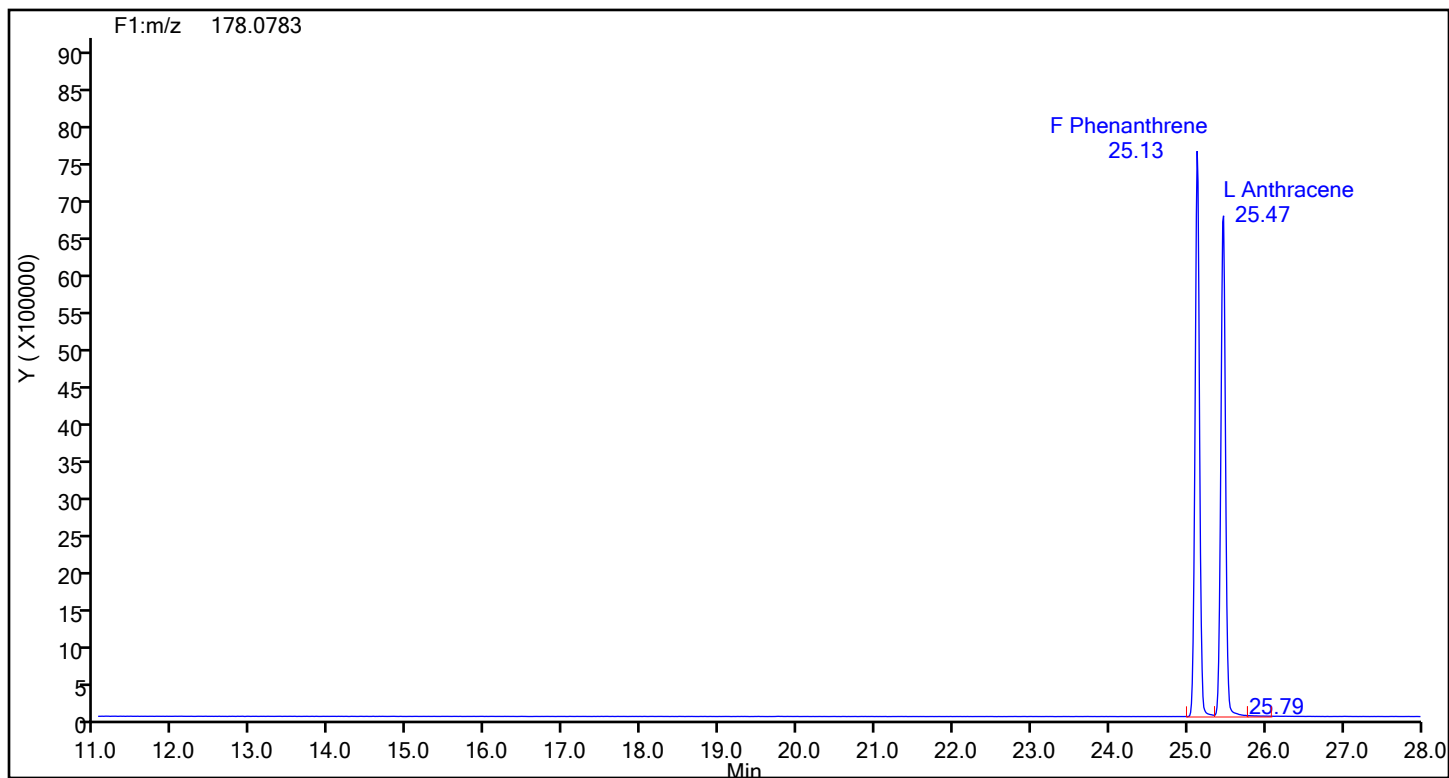


Fluorene Standards

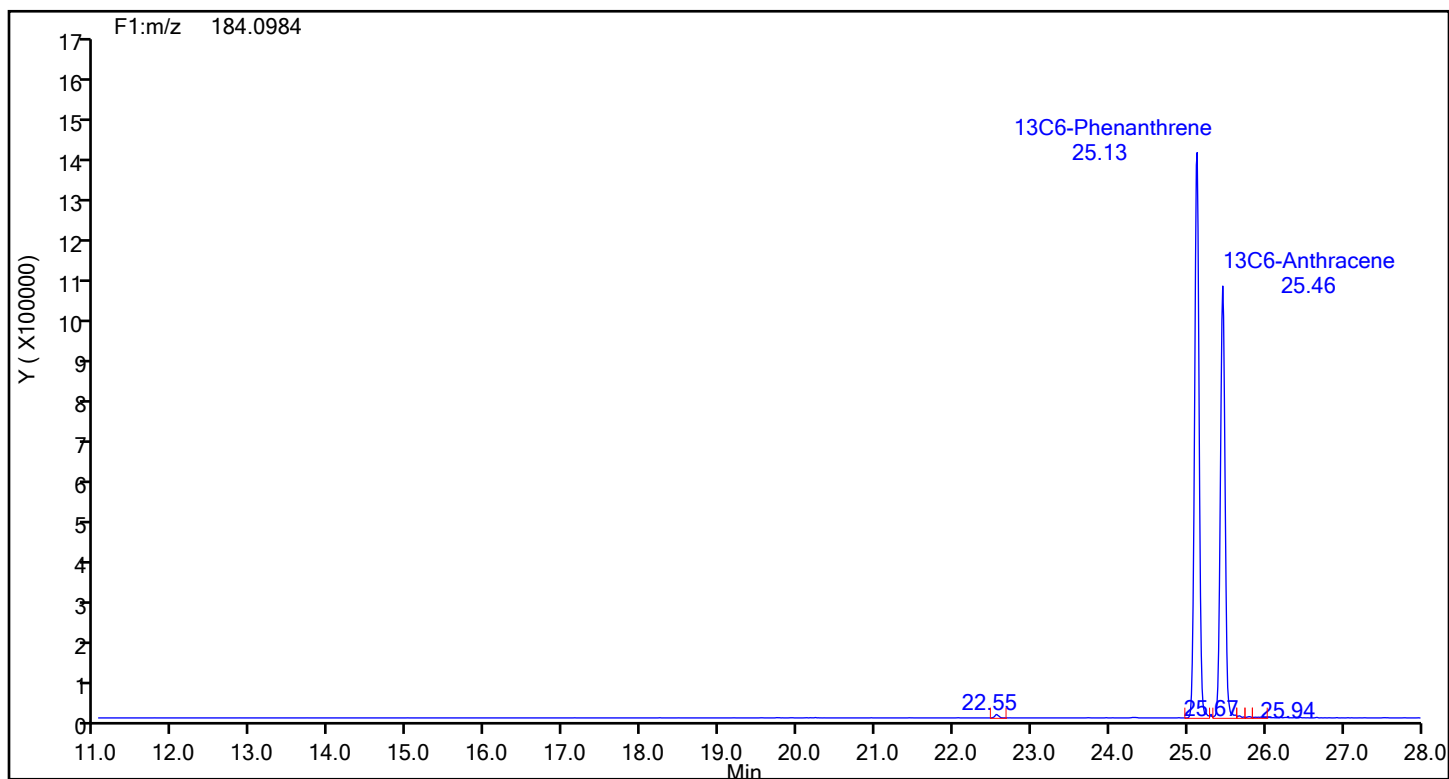


Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

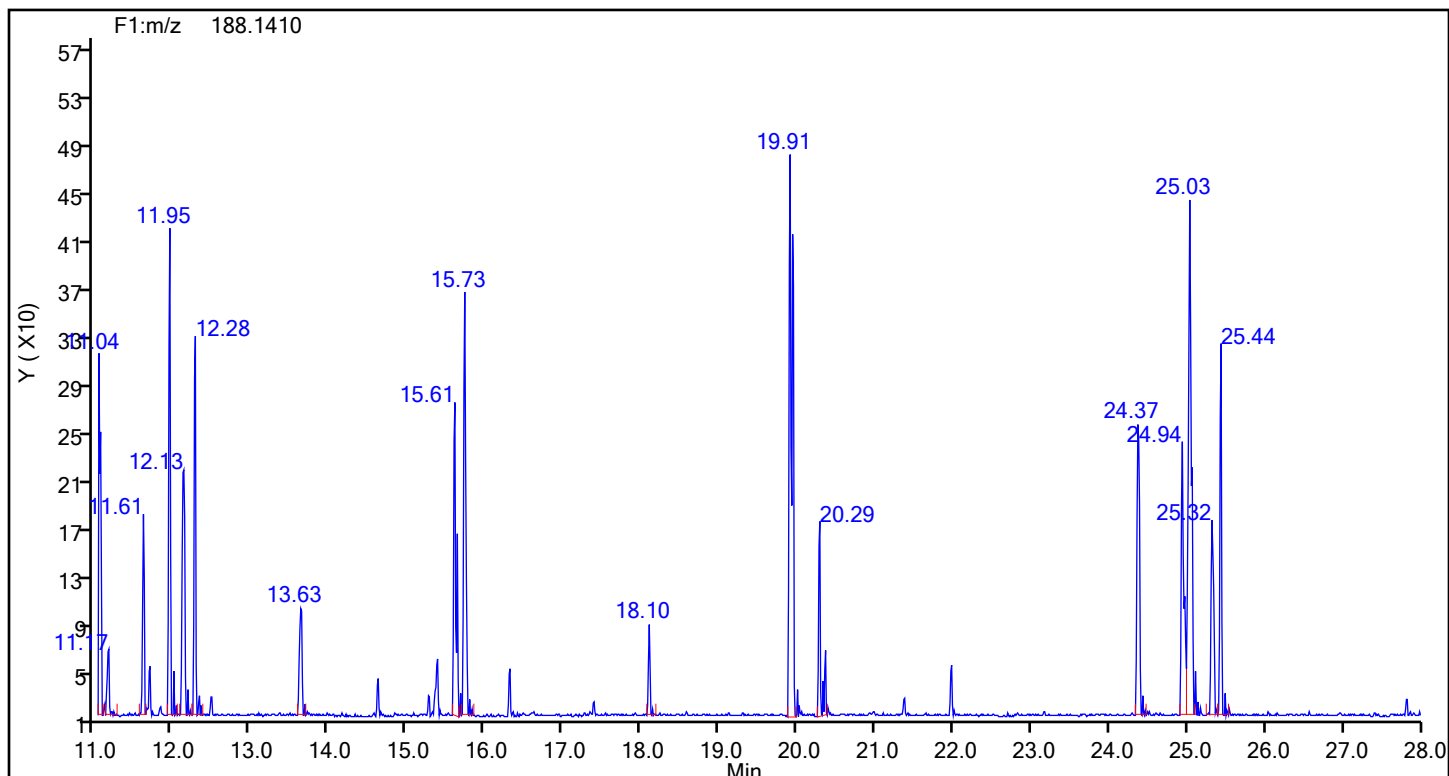


Phenanthrene Standards

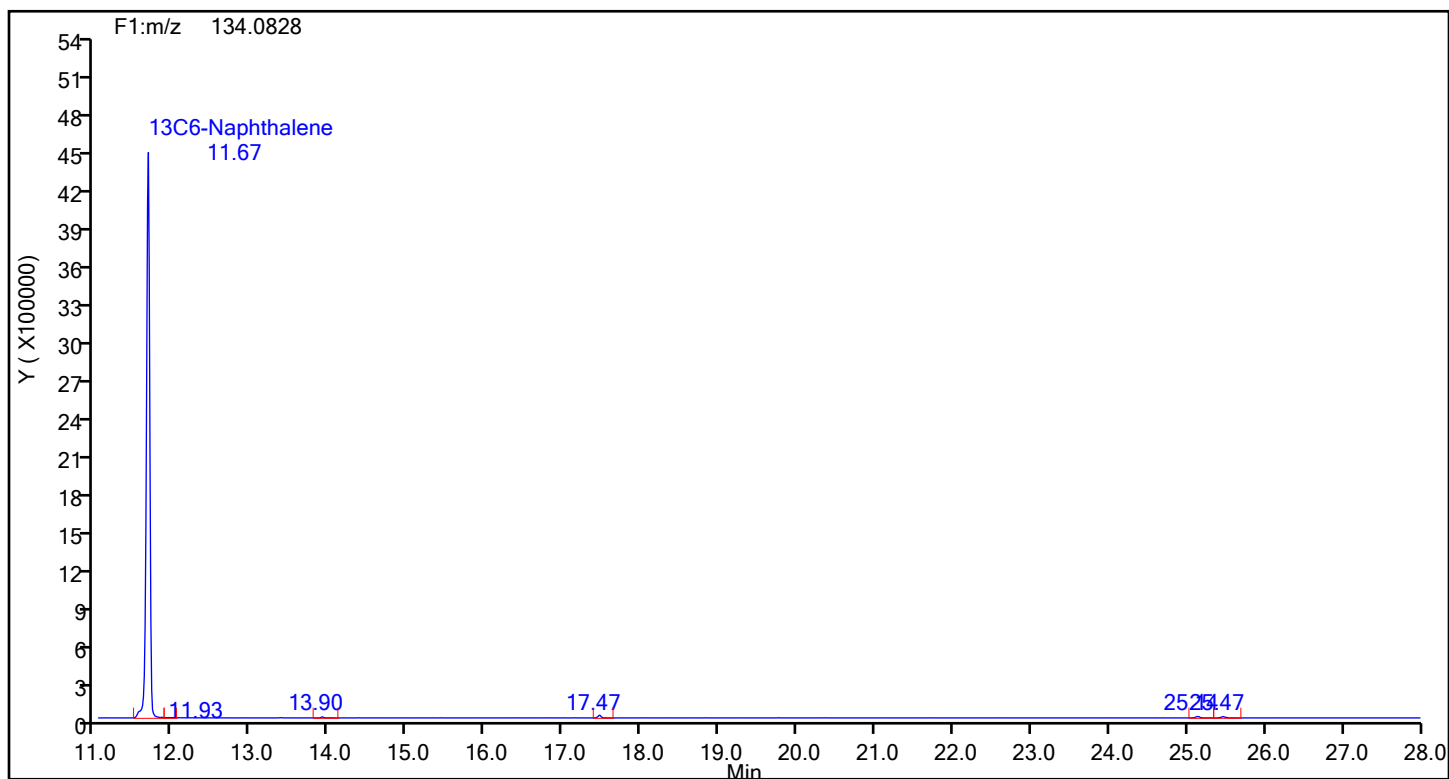


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

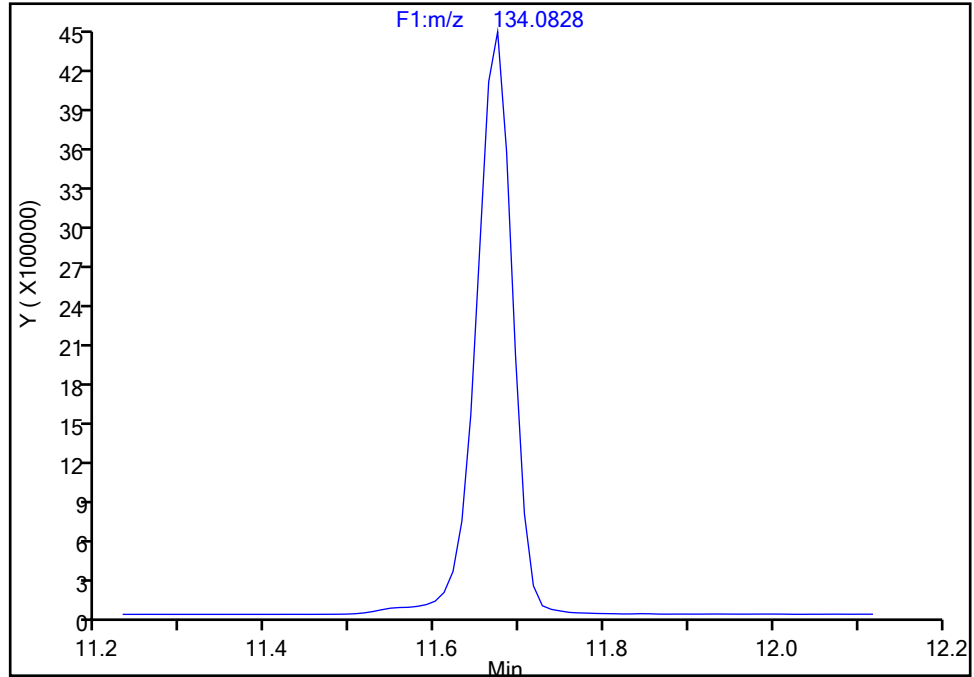
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

13C6-Naphthalene, CAS: STL02217

Signal: 1

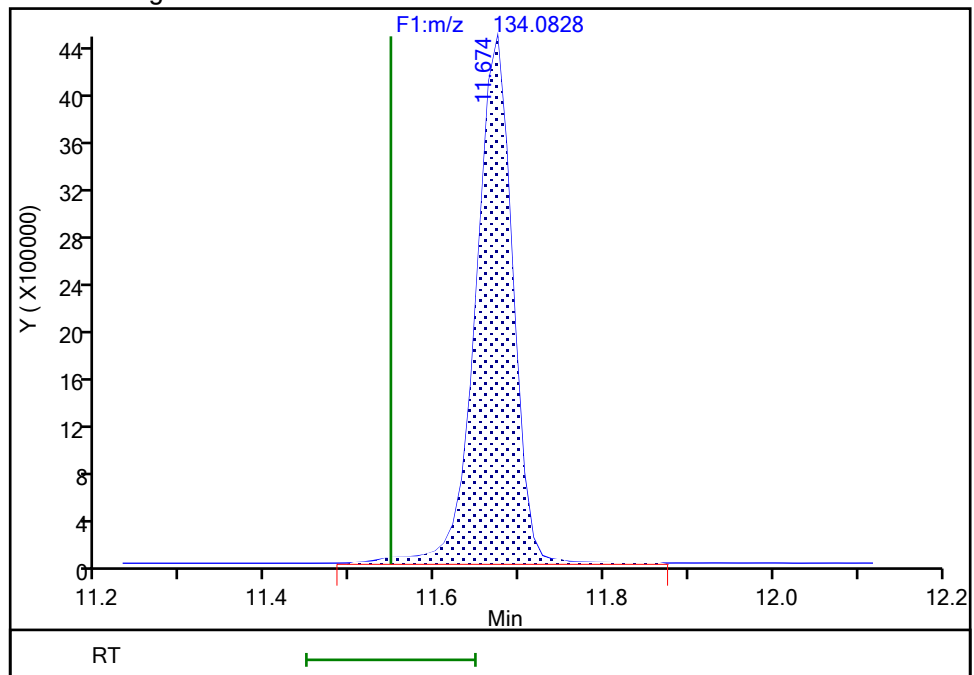
Not Detected
Expected RT: 11.55

Processing Integration Results



RT: 11.67
Area: 13477442
Amount: 92.802548
Amount Units: pg/ul

Manual Integration Results



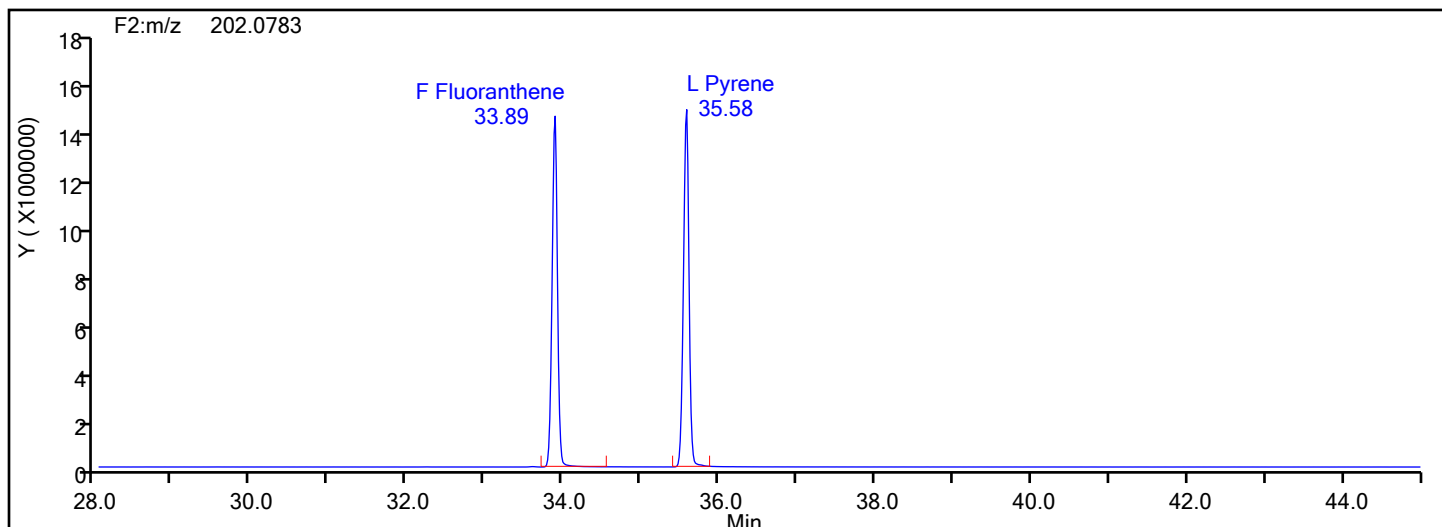
Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

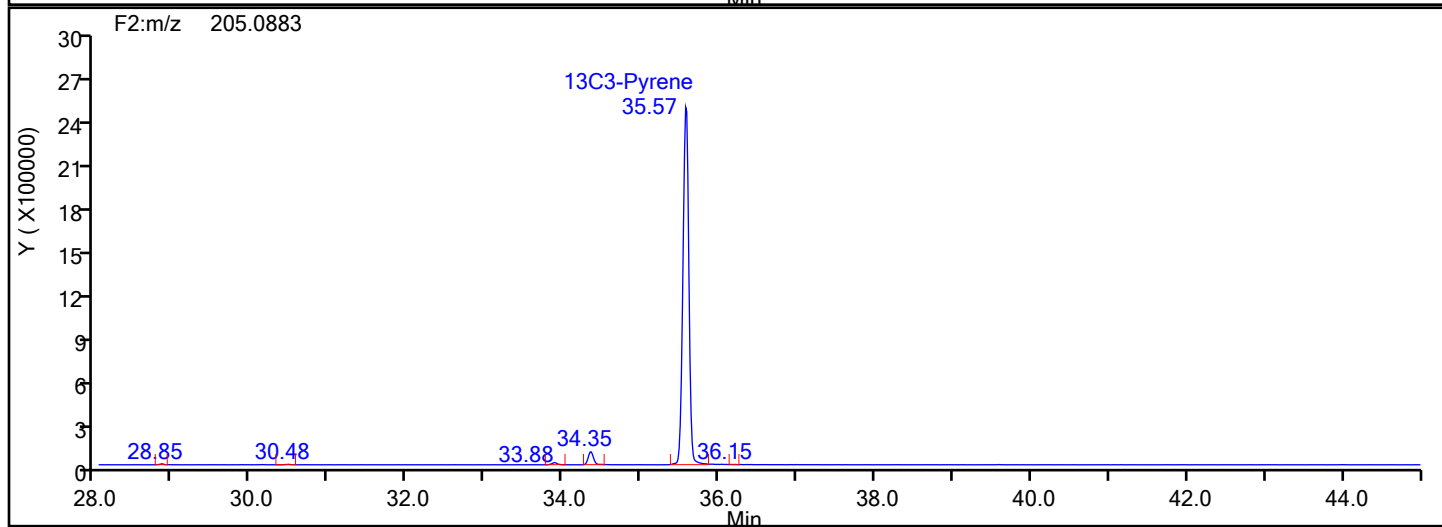
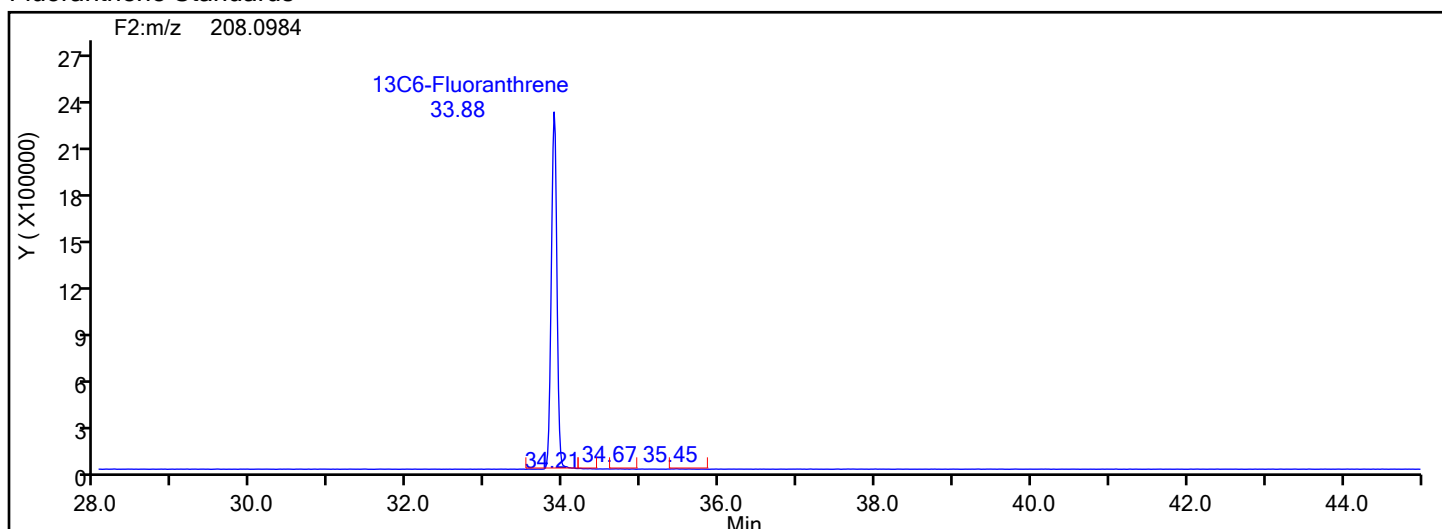
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



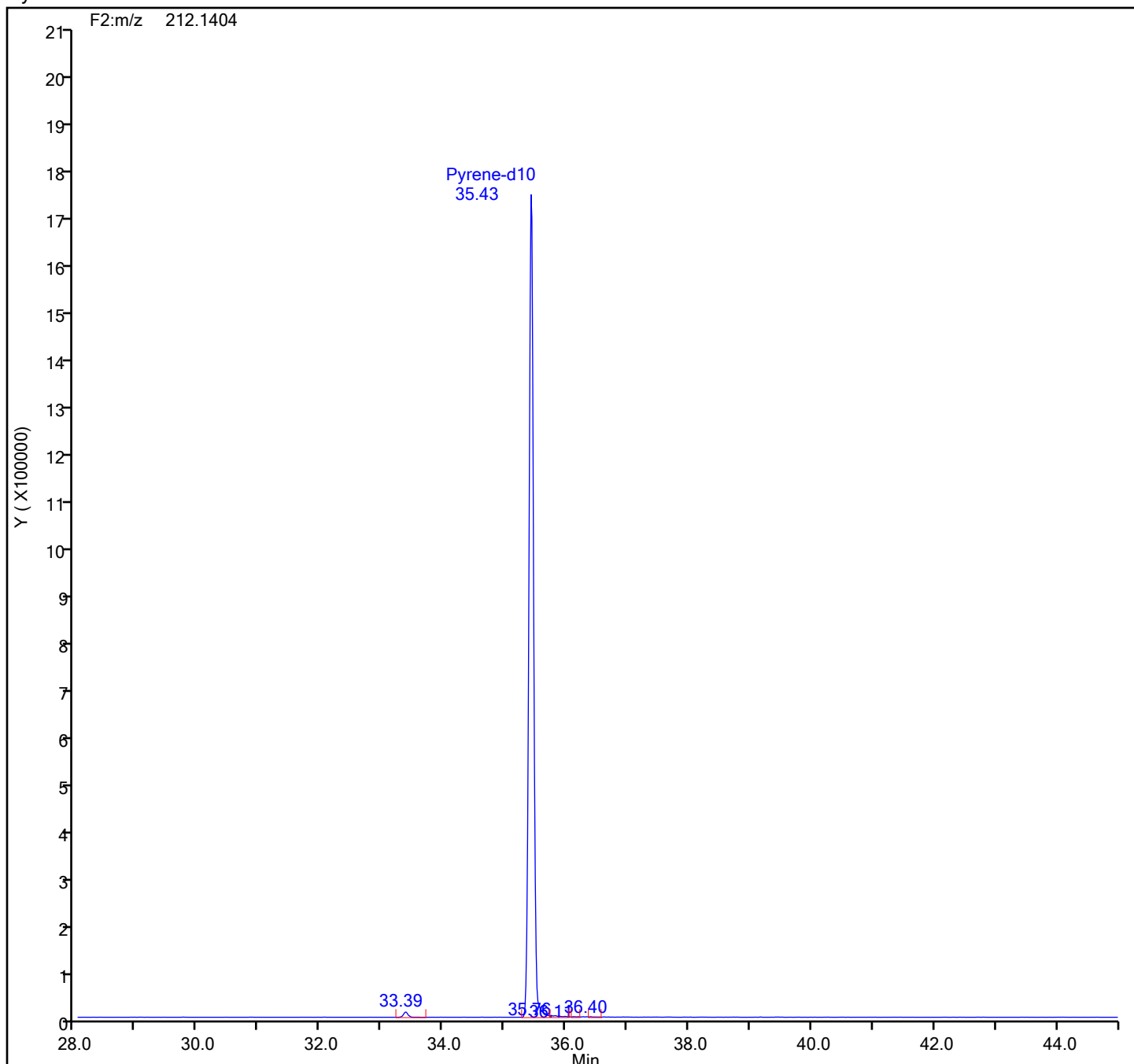
Fluoranthene Standards



Eurofins Knoxville

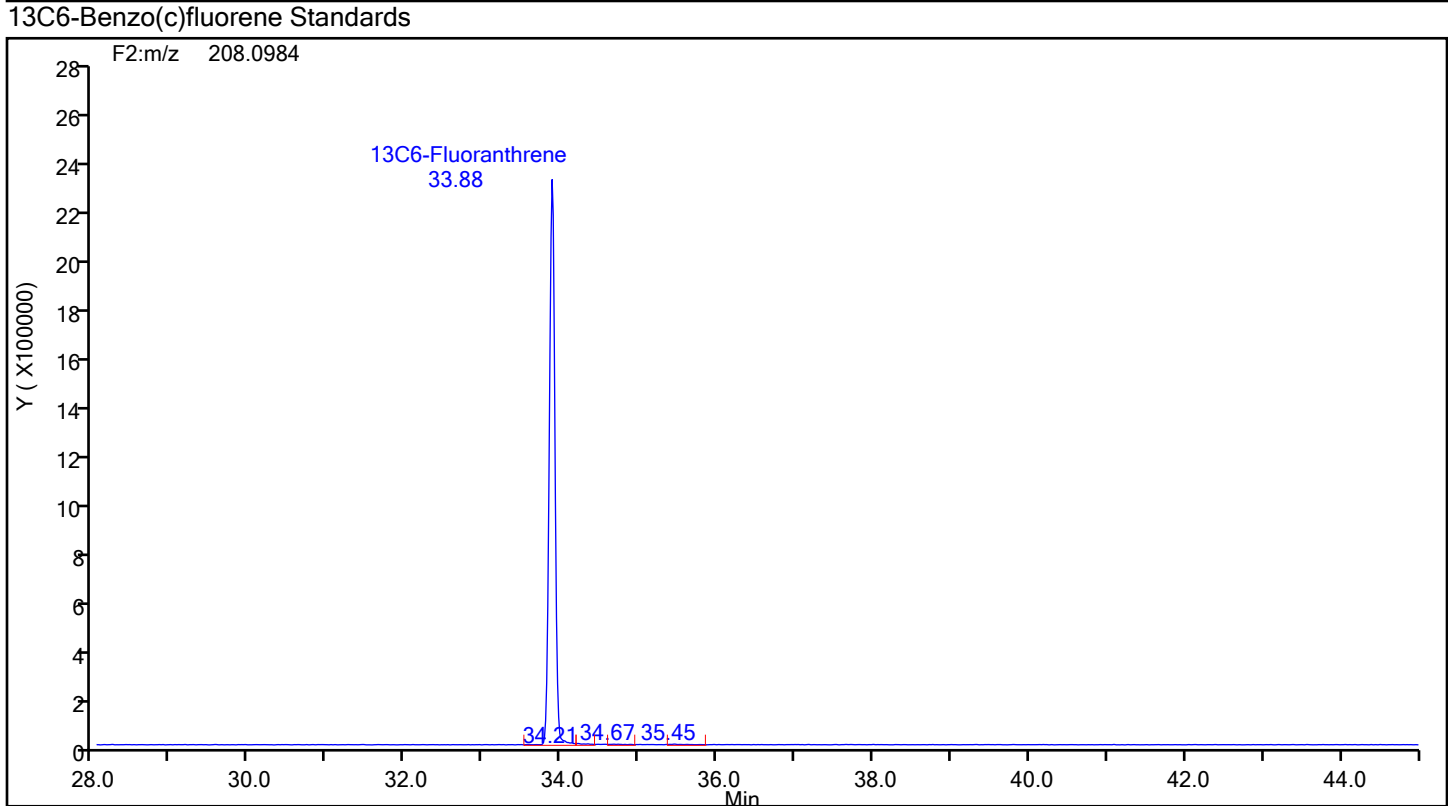
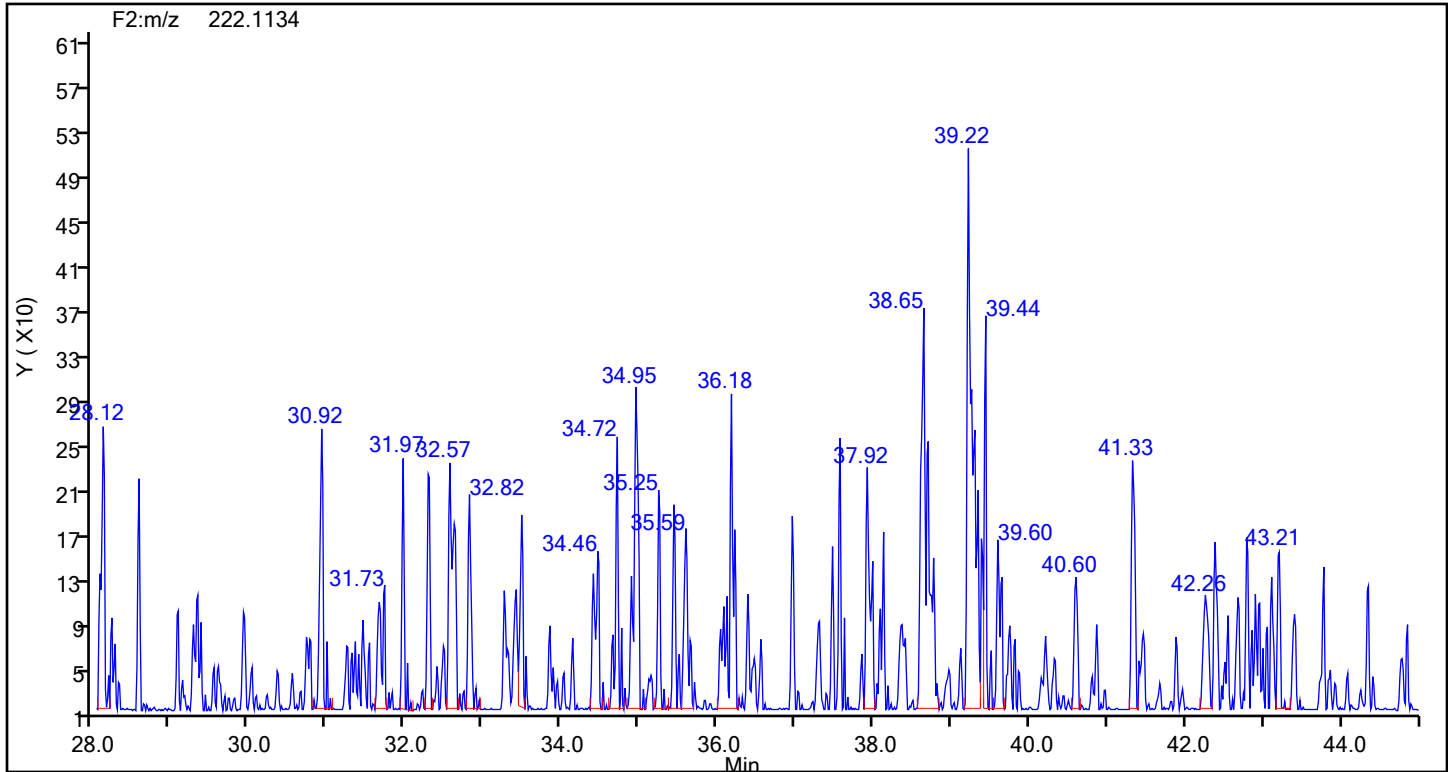
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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene-d10 Standards



Eurofins Knoxville

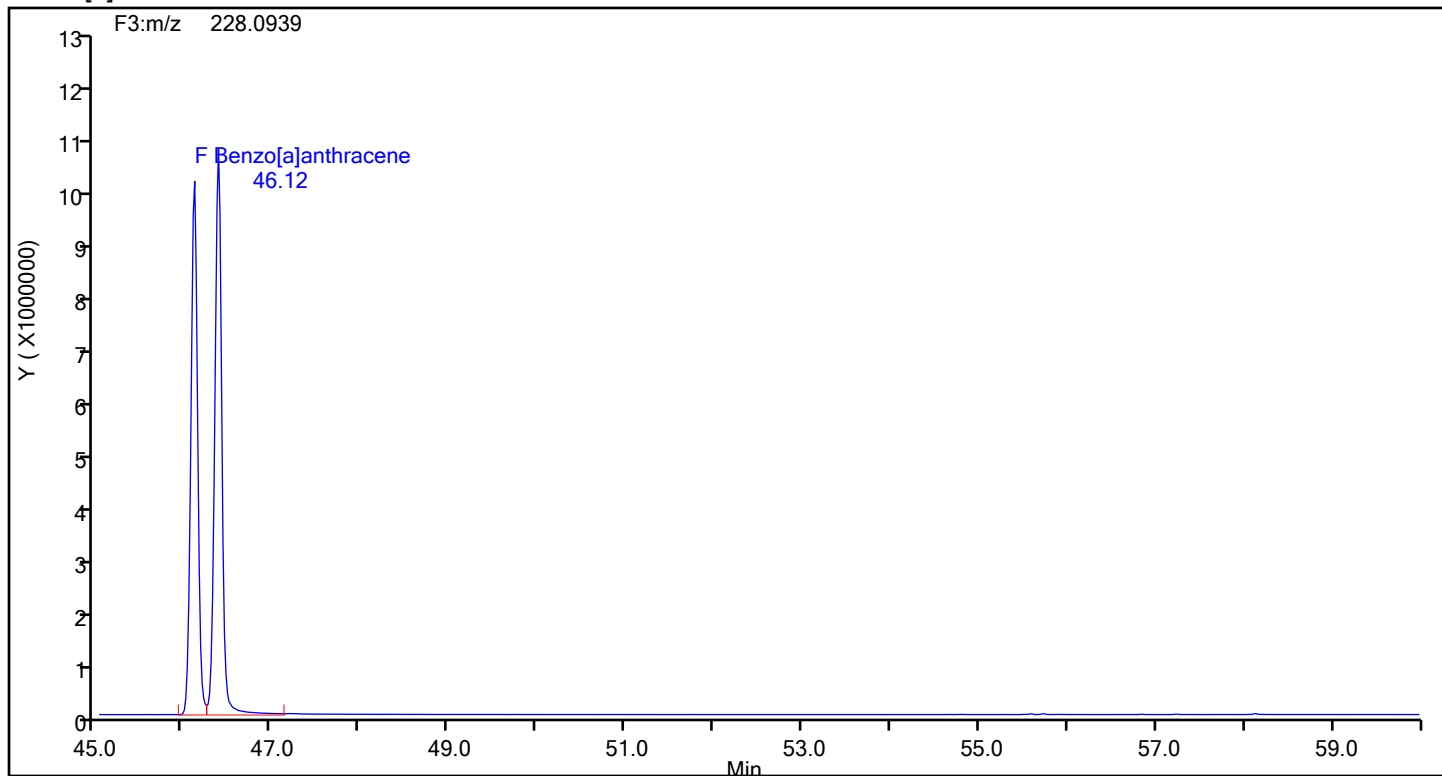
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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Benzo(c)fluorene



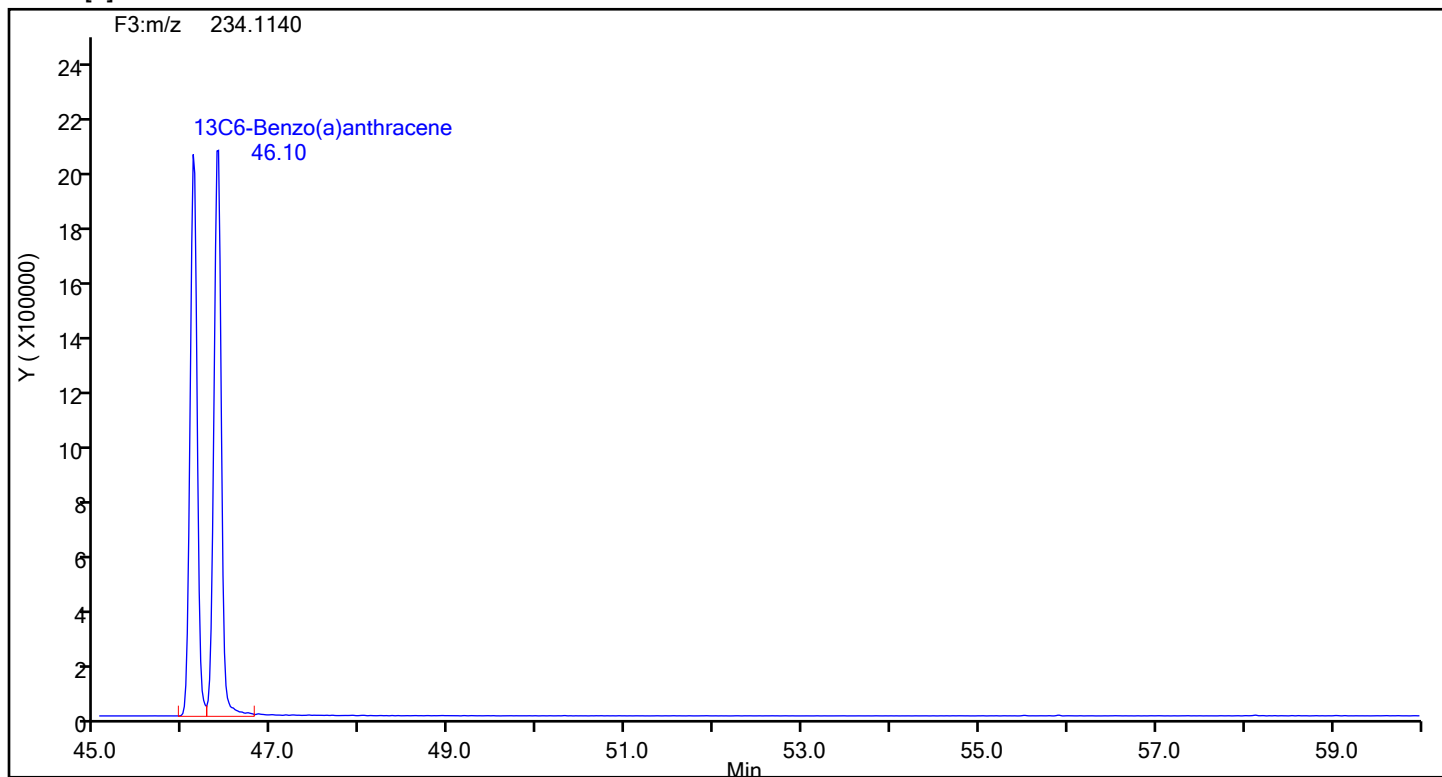
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



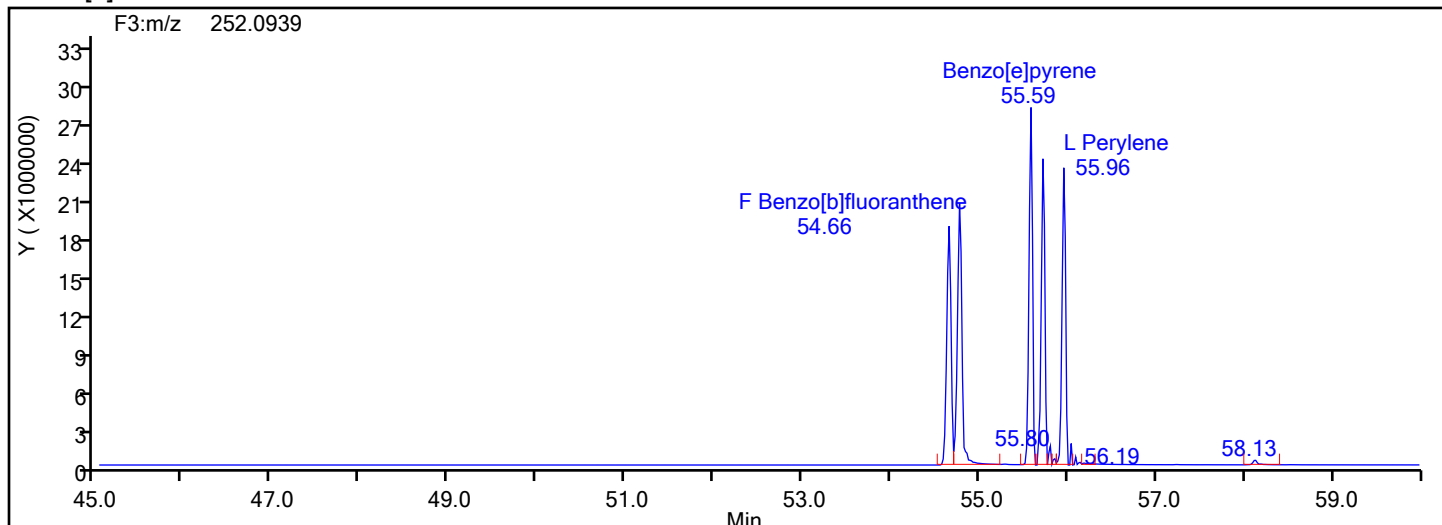
Benzo[a]anthracene Standards



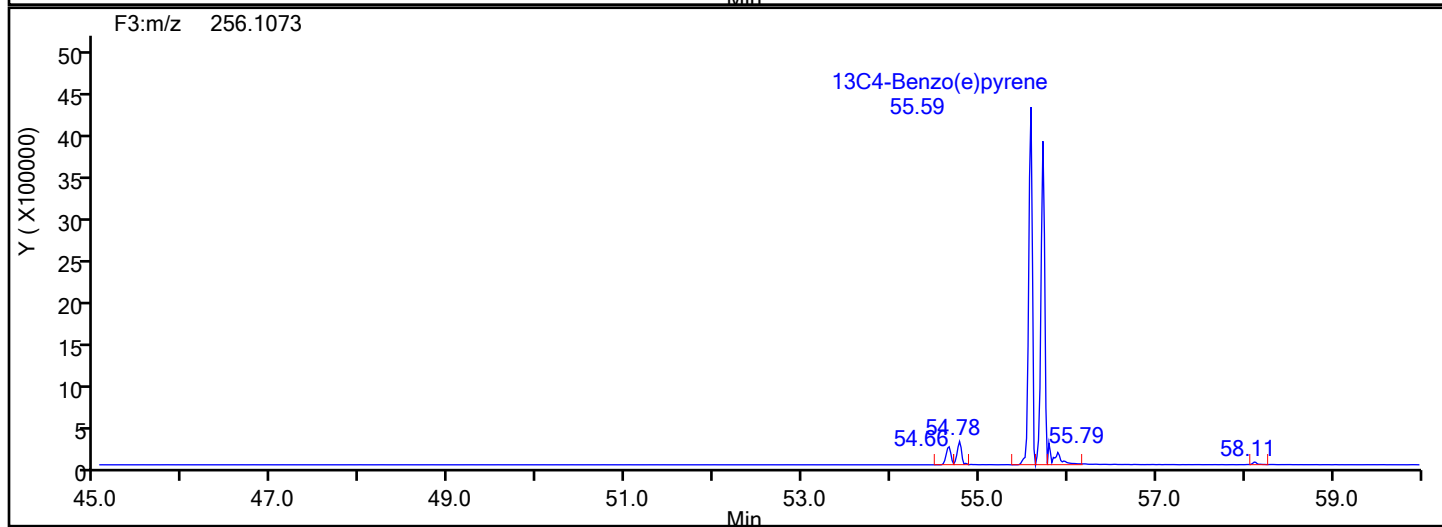
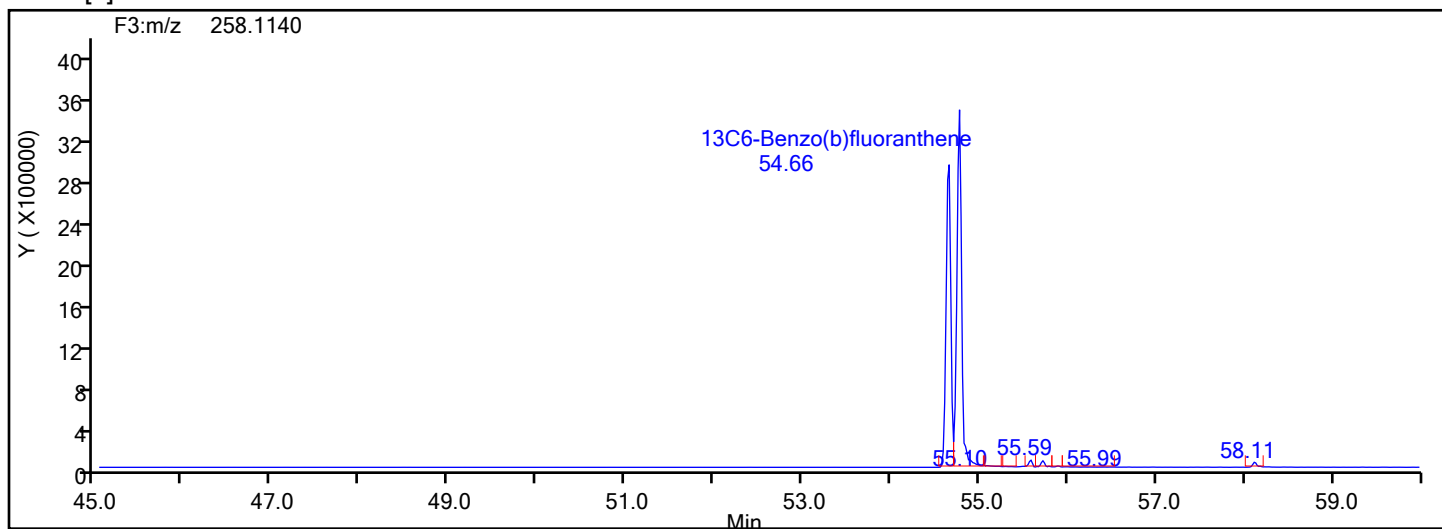
Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene

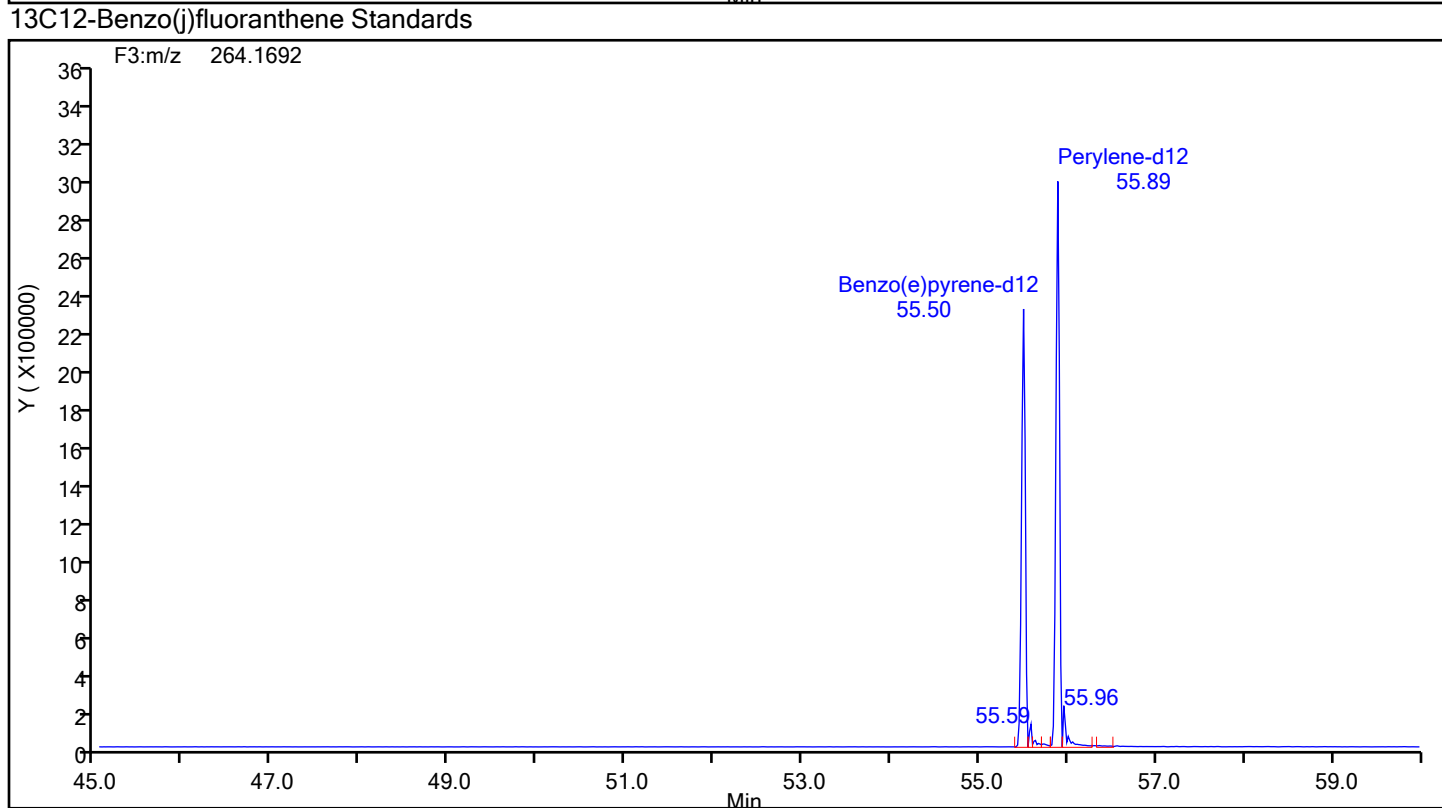
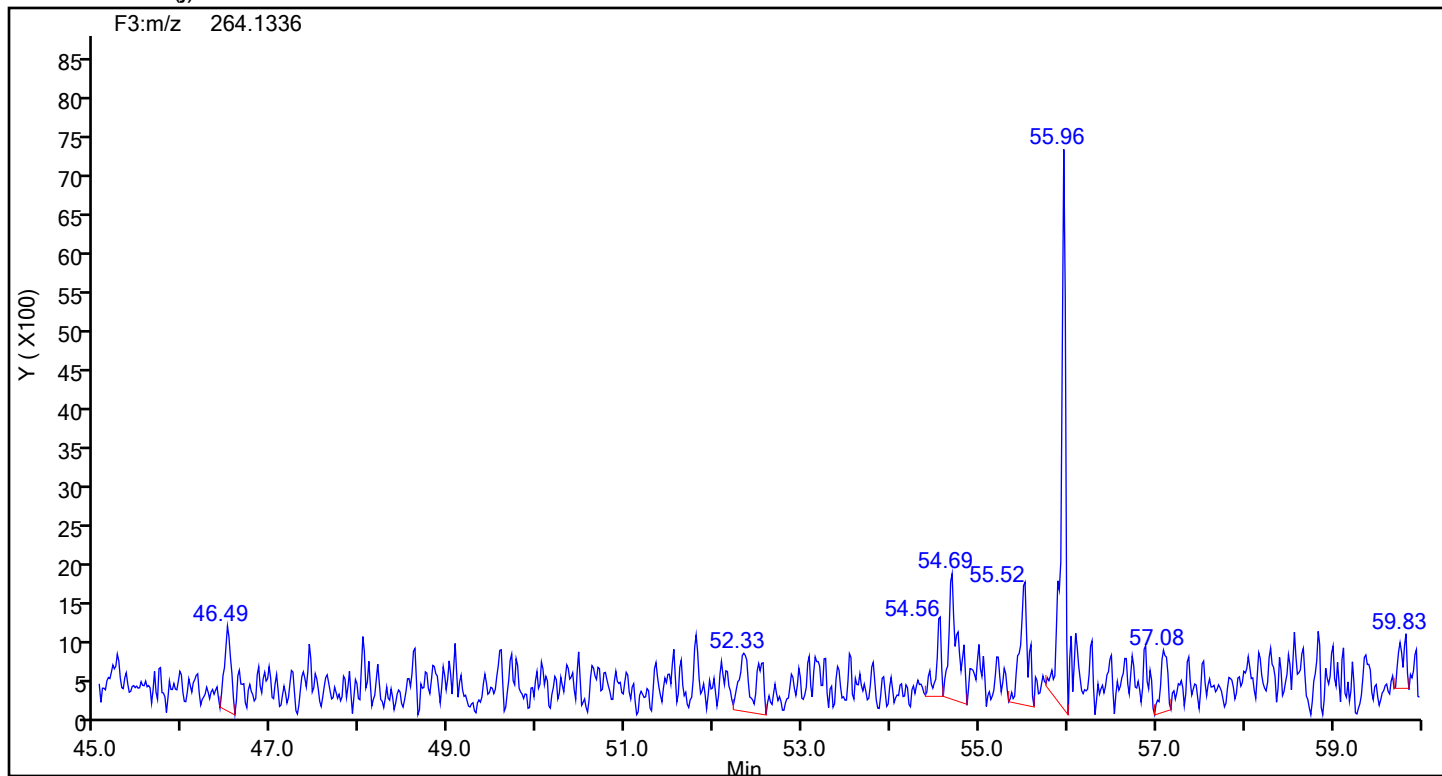


Benzo[b]fluoranthene Standards



Eurofins Knoxville

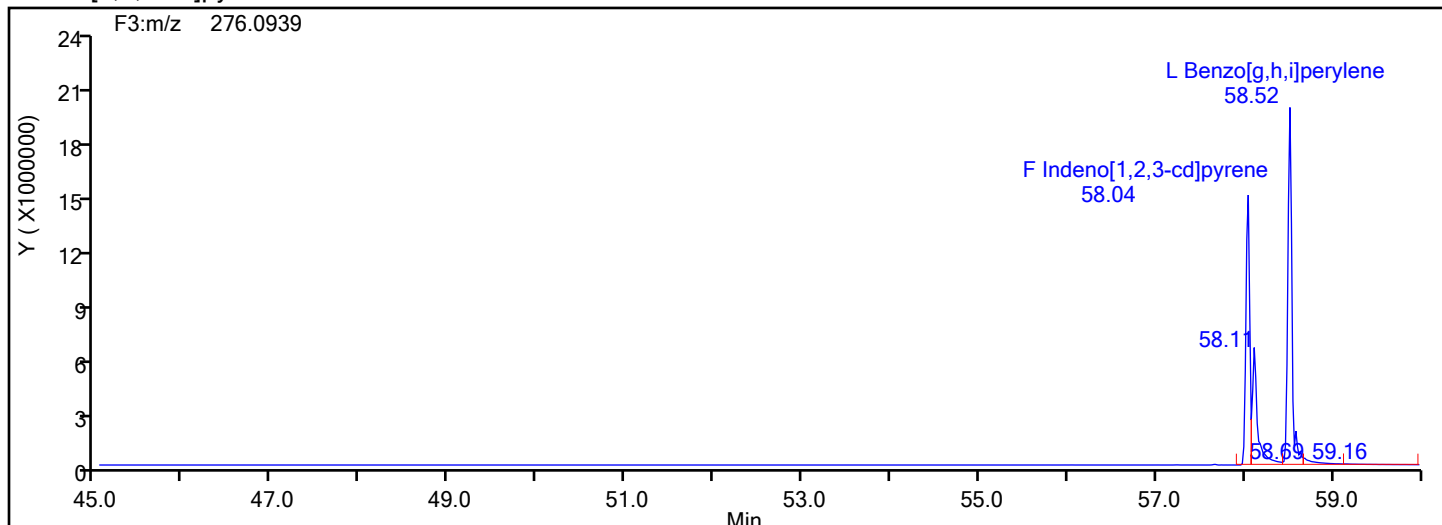
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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C12-Benzo(j)fluoranthene



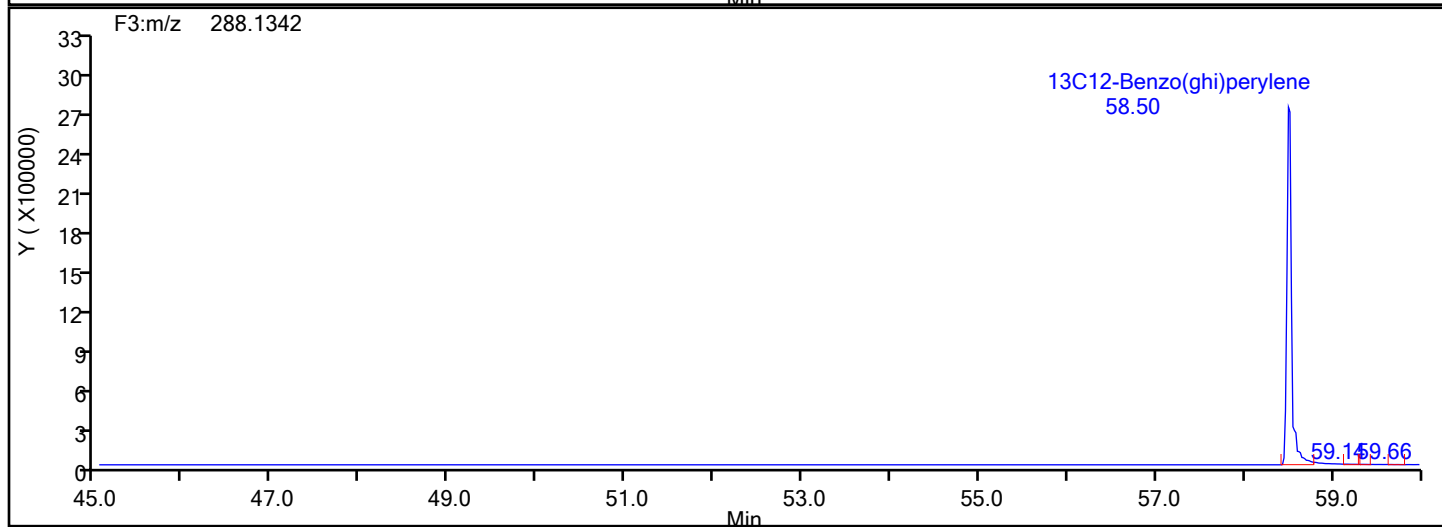
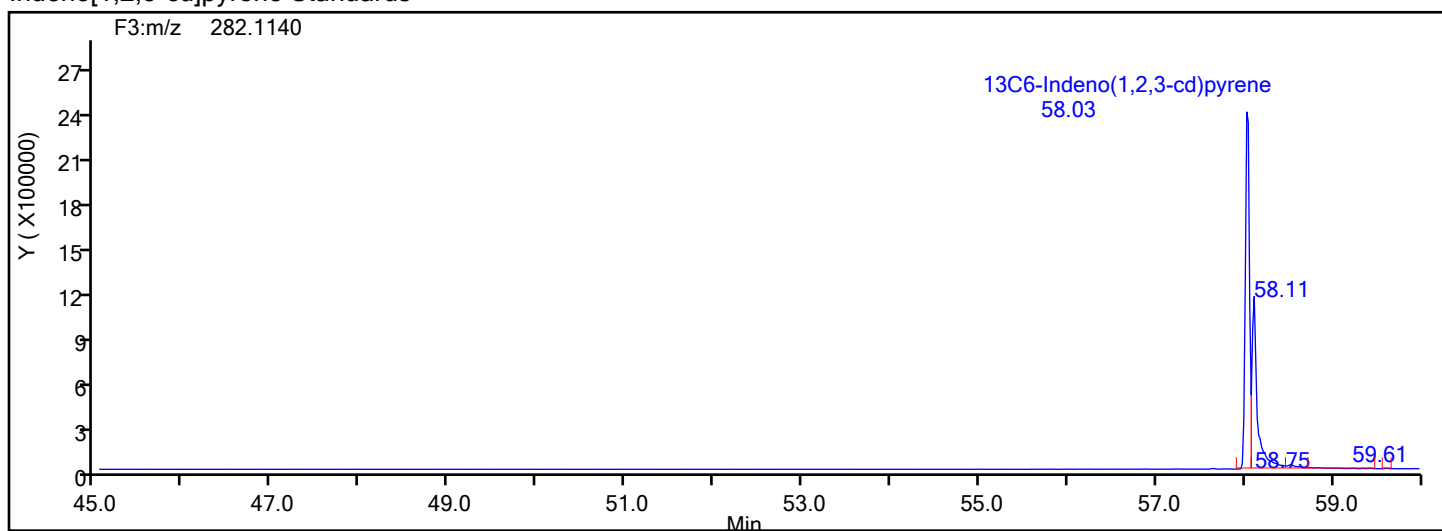
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene

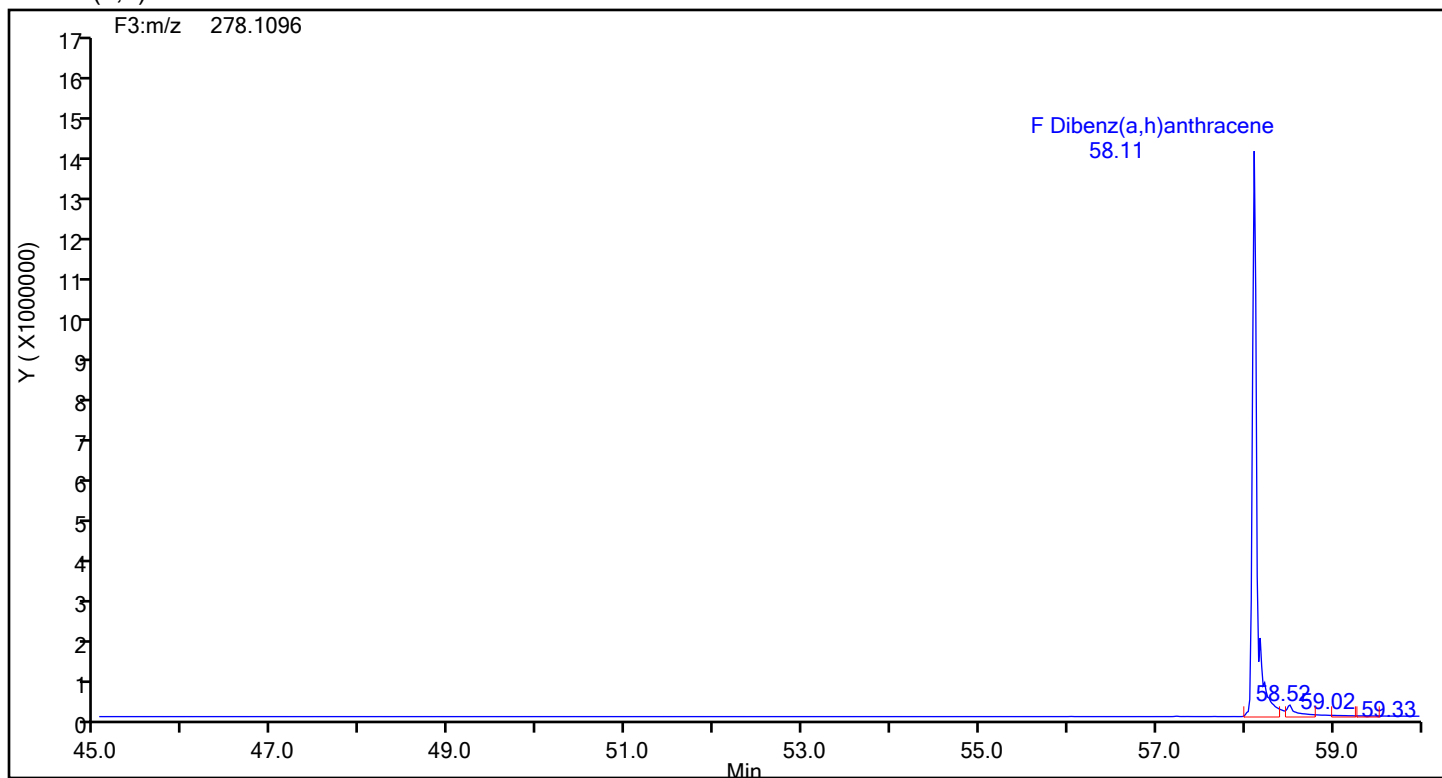


Indeno[1,2,3-cd]pyrene Standards

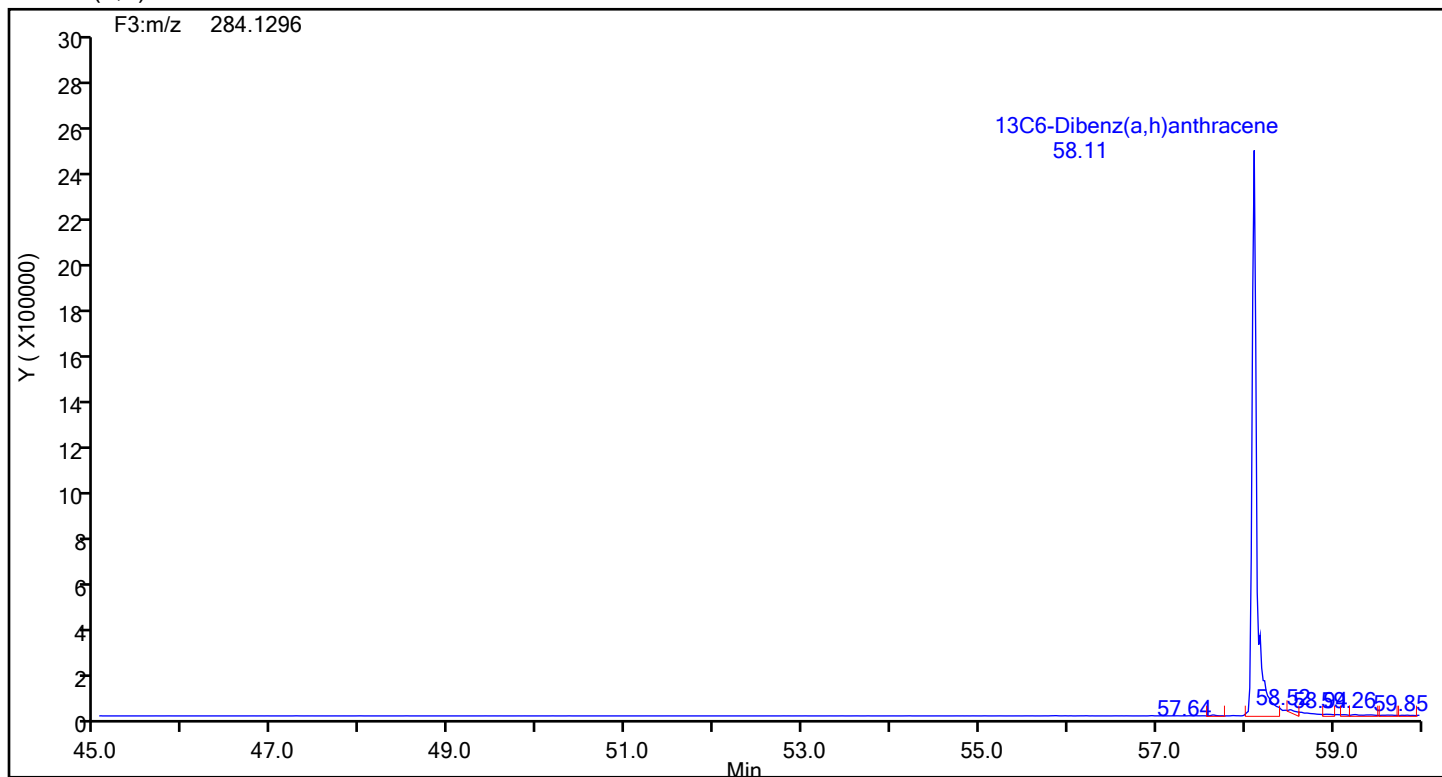


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 87843 Sample Line#: 10
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: CCV 140-88920/1 Calibration Date: 07/18/2024 10:51

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240718c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.272		197	200	-1.4	25.0
2-Methylnaphthalene	AveID	1.279	1.300		203	200	1.7	25.0
Acenaphthylene	AveID	2.366	2.274		192	200	-3.9	25.0
Acenaphthene	AveID	1.270	1.227		193	200	-3.4	25.0
Fluorene	AveID	1.253	1.308		209	200	4.4	25.0
Phenanthrene	AveID	1.104	1.136		206	200	2.9	25.0
Anthracene	AveID	1.359	1.397		206	200	2.8	25.0
Fluoranthene	AveID	1.151	1.174		204	200	2.0	25.0
Pyrene	AveID	1.065	1.066		200	200	0.1	25.0
Benzo[a]anthracene	AveID	0.9739	1.134		233	200	16.4	25.0
Chrysene	AveID	0.9815	1.146		234	200	16.8	25.0
Benzo[b]fluoranthene	AveID	1.125	1.176		209	200	4.5	25.0
Benzo[k]fluoranthene	AveID	1.127	1.124		200	200	-0.2	25.0
Benzo[e]pyrene	AveID	1.001	0.9696		194	200	-3.2	25.0
Benzo[a]pyrene	AveID	1.113	1.085		195	200	-2.5	25.0
Perylene	AveID	1.431	1.621		227	200	13.3	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.174		209	200	4.3	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.207		214	200	6.7	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.334		208	200	3.9	25.0
13C6-Naphthalene	Ave	3.375	3.355		99.4	100	-0.6	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.481		92.4	100	-7.6	30.0
13C6-Acenaphthylene	Ave	1.652	1.725		104	100	4.4	30.0
13C6-Acenaphthene	Ave	0.9792	1.017		104	100	3.9	30.0
13C6-Fluorene	Ave	0.8898	0.9810		110	100	10.2	30.0
13C6-Phenanthrene	Ave	0.5724	0.4759		83.1	100	-16.9	30.0
13C6-Anthracene	Ave	0.4523	0.3822		84.5	100	-15.5	30.0
13C6-Fluoranthrene	Ave	1.199	1.312		109	100	9.4	30.0
13C3-Pyrene	Ave	1.351	1.540		114	100	14.0	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.637		108	100	7.8	30.0
13C6-Chrysene	Ave	1.629	1.816		112	100	11.5	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.545		106	100	5.7	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.815		104	100	3.7	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.977		121	100	20.8	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.817		117	100	17.2	30.0
Perylene-d12	Ave	1.192	1.265		106	100	6.1	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.278		125	100	25.1	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.270		120	100	20.3	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.247		97.8	100	-2.2	30.0

Resolution Check Report (DFS SN: 3439)

Date: 18 Jul 2024 10:29
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

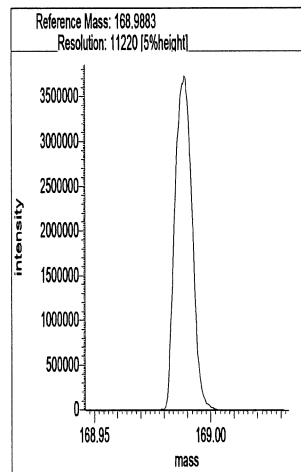
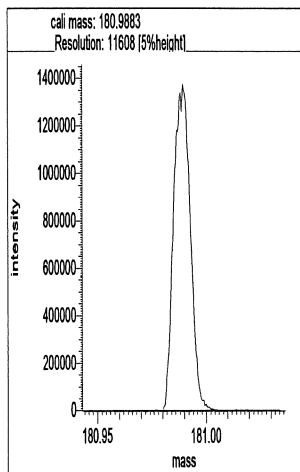
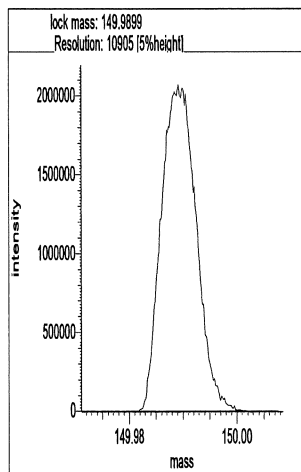
Segment 1

-d3240718r2

Lock mass 149.9899 [m/z] Resolution: 10905 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11608 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11220 [5%height]

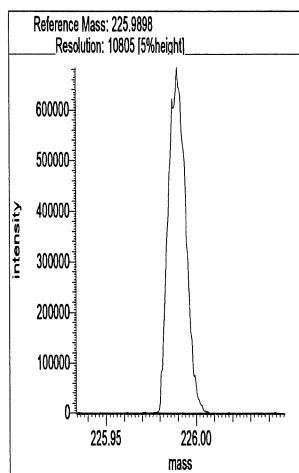
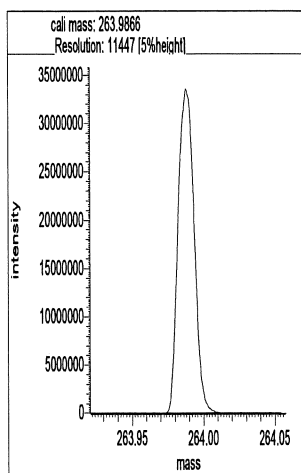
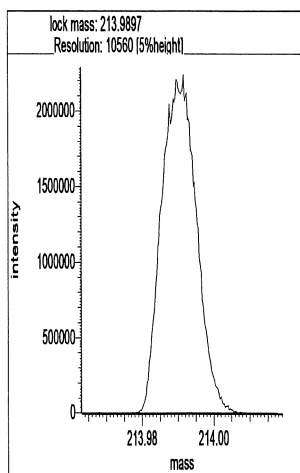


Segment 2

Lock mass 213.9897 [m/z] Resolution: 10560 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11447 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 10805 [5%height]

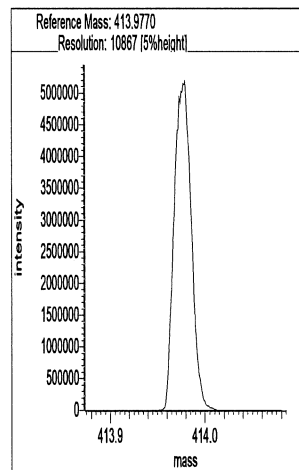
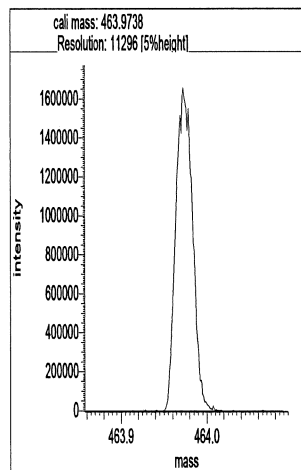
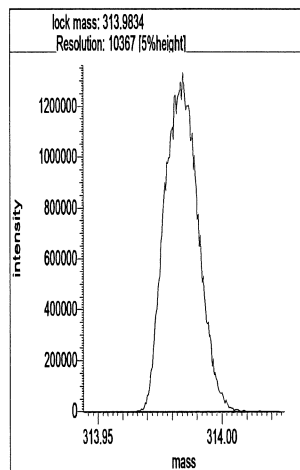


Segment 3

Lock mass 313.9834 [m/z] Resolution: 10367 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11296 [5%height]

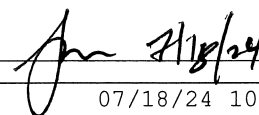
Ref. mass 413.9770 [m/z] Resolution: 10867 [5%height]



Reports

10:46:49: Peak matching procedure started
10:46:50:
10:46:50: Reference mass: 263.98656
10:46:51: Sample mass: 414.0
10:46:51:
10:46:52: Finding reference mass
10:46:53: Finding sample mass
10:46:53:
10:46:59: [1] 413.9773 amu, mean: 413.9773
10:47:02: [2] 413.9769 amu, mean: 413.9771 SD: 0.28 mmu or: 0.67 ppm
10:47:05: [3] 413.9770 amu, mean: 413.9771 SD: 0.21 mmu or: 0.51 ppm
10:47:08: [4] 413.9766 amu, mean: 413.9770 SD: 0.30 mmu or: 0.72 ppm
10:47:12: [5] 413.9765 amu, mean: 413.9769 SD: 0.34 mmu or: 0.83 ppm
10:47:15: [6] 413.9762 amu, mean: 413.9768 SD: 0.41 mmu or: 0.99 ppm
10:47:18: [7] 413.9765 amu, mean: 413.9767 SD: 0.39 mmu or: 0.93 ppm
10:47:21: [8] 413.9763 amu, mean: 413.9767 SD: 0.39 mmu or: 0.95 ppm
10:47:24: [9] 413.9761 amu, mean: 413.9766 SD: 0.41 mmu or: 1.00 ppm
10:47:27: [10] 413.9767 amu, mean: 413.9766 SD: 0.39 mmu or: 0.95 ppm
10:47:30: [11] 413.9766 amu, mean: 413.9766 SD: 0.37 mmu or: 0.90 ppm
10:47:30:
10:47:30: Stop requested. Please wait for procedure to finish.
10:47:30:
10:47:34:
10:47:34: Peakmatching stopped

Signature

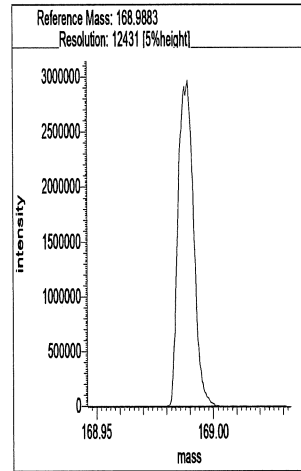
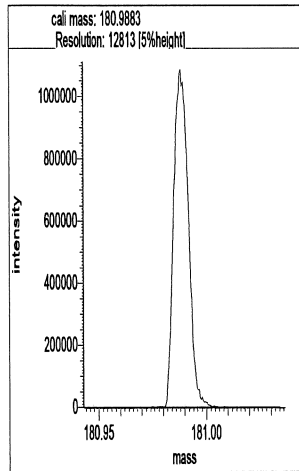
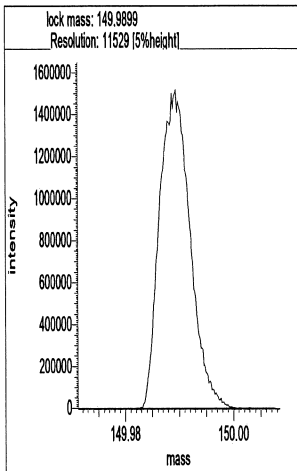


Resolution Check Report (DFS SN: 3439)

Date: 18 Jul 2024 21:24
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

Segment 1

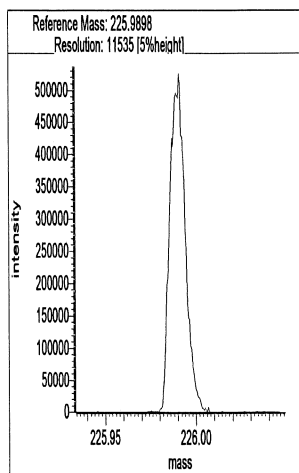
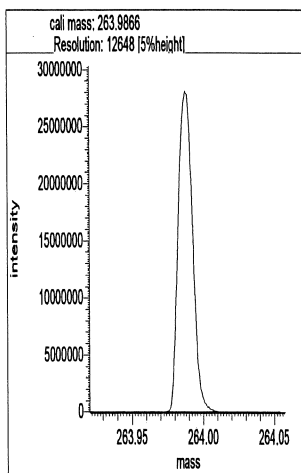
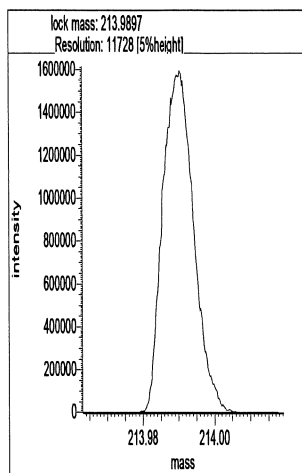
Lock mass 149.9899 [m/z] Resolution: 11529 [5%height]
Cali. mass 180.9883 [m/z] Resolution: 12813 [5%height]
Ref. mass 168.9883 [m/z] Resolution: 12431 [5%height]



Segment 2

Lock mass 213.9897 [m/z] Resolution: 11728 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 12648 [5%height]
Ref. mass 225.9898 [m/z] Resolution: 11535 [5%height]

03240718r3

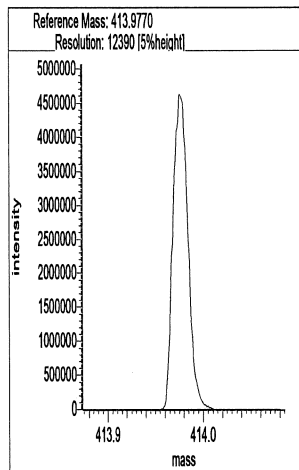
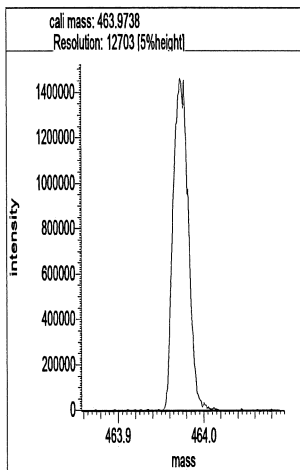
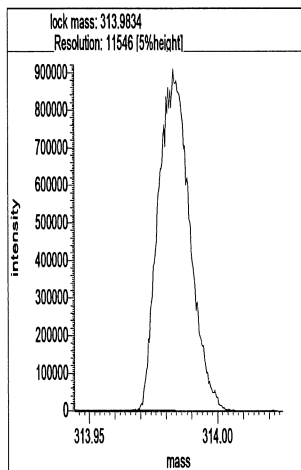


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11546 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12703 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12390 [5%height]



Reports

21:30:57: Peak matching procedure started
21:30:57:
21:30:58: Reference mass: 263.98656
21:30:58: Sample mass: 414.0
21:30:59:
21:30:59: Finding reference mass
21:31:00: Finding sample mass
21:31:01:
21:31:06: [1] 413.9755 amu, mean: 413.9755 SD: 0.16 mmu or: 0.38 ppm
21:31:09: [2] 413.9753 amu, mean: 413.9754 SD: 0.16 mmu or: 0.38 ppm
21:31:12: [3] 413.9752 amu, mean: 413.9754 SD: 0.13 mmu or: 0.32 ppm
21:31:16: [4] 413.9753 amu, mean: 413.9754 SD: 0.11 mmu or: 0.27 ppm
21:31:19: [5] 413.9754 amu, mean: 413.9754 SD: 0.27 mmu or: 0.64 ppm
21:31:22: [6] 413.9760 amu, mean: 413.9755 SD: 0.26 mmu or: 0.64 ppm
21:31:25: [7] 413.9757 amu, mean: 413.9755 SD: 0.30 mmu or: 0.73 ppm
21:31:29: [8] 413.9760 amu, mean: 413.9756 SD: 0.33 mmu or: 0.80 ppm
21:31:31: [9] 413.9761 amu, mean: 413.9756 SD: 0.33 mmu or: 0.79 ppm
21:31:35: [10] 413.9759 amu, mean: 413.9756 SD: 0.31 mmu or: 0.76 ppm
21:31:38: [11] 413.9755 amu, mean: 413.9756
21:31:39:
21:31:39: Stop requested. Please wait for procedure to finish.
21:31:39:
21:31:41:
21:31:41: Peakmatching stopped

Signature

mdp 7/18/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Jul-2024 10:51:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 18-Jul-2024 12:07:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1621

First Level Reviewer: F9EE

Date: 18-Jul-2024 12:07:24

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:25	63523021		3.3746	99.4	99.4	0.006890	0.006890	99.41	
Naphthalene	11:25	161558702		1.2893	197.3	197.3	0.0177	0.0177	98.63	
D 13C6-2-Methylnaphthalene	13:47	28045750		1.6031	92.4	92.4	0.000994	0.000994	92.39	
2-Methylnaphthalene	13:48	72928310		1.2786	203.4	203.4	0.007868	0.007868	102	
D 13C6-Acenaphthylene	16:38	32668595		1.6520	104.4	104.4	0.001487	0.001487	104	
Acenaphthylene	16:39	87608789		2.3661	192.2	192.2	0.0109	0.0109	96.12	
* Acenaphthene-d10	17:13	18935921		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:20	19259735		0.9792	103.9	103.9	0.002235	0.002235	104	
Acenaphthene	17:20	47245965		1.2697	193.2	193.2	0.0123	0.0123	96.60	
Fluorene	19:37	48586647		1.2532	208.7	208.7	0.0126	0.0126	104	
D 13C6-Fluorene	19:37	18575983		0.8898	110.2	110.2	0.001037	0.001037	110	
D 13C6-Phenanthrene	24:58	25916646		0.5724	83.1	83.1	0.001313	0.001313	83.13	
Phenanthrene	24:58	58883335		1.1044	205.7	205.7	0.0146	0.0146	103	
\$ Anthracin-d10	25:10	18815410		0.4257	81.2	81.2	0.000706	0.000706	81.15	
D 13C6-Anthracene	25:17	20818037		0.4523	84.5	84.5	0.001661	0.001661	84.50	
Anthracene	25:17	58159766		1.3586	205.6	205.6	0.0158	0.0158	103	
D 13C6-Fluoranthrene	33:40	71456422		1.1994	109.4	109.4	0.008694	0.008694	109	
Fluoranthene	33:41	167783952		1.1513	203.9	203.9	0.006897	0.006897	102	
* Pyrene-d10	35:13	54463676		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:21	83873036		1.3512	114.0	114.0	0.0118	0.0118	114	
Pyrene	35:21	178892855		1.0652	200.2	200.2	0.006360	0.006360	100	
\$ 13C6-Benzo(c)fluorene	39:03	25792780		0.5136	92.2	92.2	0.003109	0.003109	92.21	
D 13C6-Benzo(a)anthracene	45:52	79937749		1.5189	107.8	107.8	0.006354	0.006354	108	
Benzo[a]anthracene	45:53	181222668		0.9739	232.8	232.8	0.0266	0.0266	116	
D 13C6-Chrysene	46:08	88662961		1.6287	111.5	111.5	0.005926	0.005926	111	
Chrysene	46:09	203231381		0.9815	233.5	233.5	0.0248	0.0248	117	
D 13C6-Benzo(b)fluoranthene	54:30	75454275		1.4621	105.7	105.7	0.000549	0.000549	106	
Benzo[b]fluoranthene	54:30	177426764		1.1249	209.0	209.0	0.002172	0.002172	105	
\$ 13C12-Benzo(j)fluoranthene	54:32	61885518		1.3558	93.5	93.5	0.006312	0.006312	93.48	
D 13C6-Benzo(k)fluoranthene	54:38	88604977		1.7507	103.7	103.7	0.000459	0.000459	104	
Benzo[k]fluoranthene	54:39	199239189		1.1271	199.5	199.5	0.001881	0.001881	99.75	
* Benzo(e)pyrene-d12	55:23	48828180		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:28	96526872		1.6368	120.8	120.8	0.001518	0.001518	121	
Benzo[e]pyrene	55:28	187190891		1.0013	193.7	193.7	0.001570	0.001570	96.84	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	88710239		1.5508	117.2	117.2	0.001602	0.001602	117	
Benzo[a]pyrene	55:37	192586625		1.1130	195.0	195.0	0.001516	0.001516	97.52	
D Perylene-d12	55:47	61755807		1.1917	106.1	106.1	0.006777	0.006777	106	
Perylene	55:51	200268409		1.4307	226.7	226.7	0.001639	0.001639	113	
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	62400977		1.0218	125.1	125.1	0.004880	0.004880	125	
Indeno[1,2,3-cd]pyrene	57:56	146498509		1.1249	208.7	208.7	0.001760	0.001760	104	
D 13C6-Dibenz(a,h)anthracene	58:00	61996731		1.0553	120.3	120.3	0.002910	0.002910	120	
Dibenz(a,h)anthracene	58:00	149718757		1.1314	213.5	213.5	0.001345	0.001345	107	
D 13C12-Benzo(ghi)perylene	58:23	60899486		1.2749	97.8	97.8	0.000533	0.000533	97.83	
Benzo[g,h,i]perylene	58:24	162509290		1.2838	207.9	207.9	0.001519	0.001519	104	

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Jul-2024 10:51:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 18-Jul-2024 12:07:58 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1621

First Level Reviewer: F9EE

Date: 18-Jul-2024 12:07:24

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:25	11:25	0	0.663	63523021	22420621	625	1562	35873		
Naphthalene											
128.0626	11:25	11:25	0	1.000	161558702	58460243	2048	5120	28545		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:47	0	0.801	28045750	13569005	43	107	315558		
2-Methylnaphthalene											
142.0783	13:48	13:48	0	1.001	72928310	34116194	546	1365	62484		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	32668595	11986310	66	165	181611		E
Acenaphthylene											
152.0626	16:39	16:39	0	1.000	87608789	32046190	695	1737	46110		
Acenaphthene-d10											
164.1404	17:13	17:13	0		18935921	6718265	25	62	268731		
13C6-Acenaphthene											
160.0984	17:20	17:20	0	1.007	19259735	6722631	59	147	113943		E
Acenaphthene											
154.0783	17:20	17:20	0	1.000	47245965	17133181	419	1047	40891		
Fluorene											
166.0783	19:37	19:37	0	1.000	48586647	15480316	360	900	43001		
13C6-Fluorene											
172.0984	19:37	19:37	0	1.139	18575983	5693010	25	62	227720		E
13C6-Phenanthrene											
184.0984	24:58	24:58	0	0.709	25916646	6412762	32	80	200399		
Phenanthrene											
178.0783	24:58	24:58	0	1.000	58883335	14565209	413	1032	35267		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:10	0	0.715	18815410	4321776	13	32	332444		
13C6-Anthracene											
184.0984	25:17	25:17	0	0.718	20818037	4805963	32	80	150186		
Anthracene											
178.0783	25:17	25:17	0	1.000	58159766	13631577	413	1032	33006		
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	71456422	14418725	444	1110	32475		E
Fluoranthene											
202.0783	33:41	33:41	0	1.000	167783952	35325076	458	1145	77129		
Pyrene-d10											
212.1404	35:13	35:13	0		54463676	10645437	44	110	241942		
13C3-Pyrene											
205.0883	35:21	35:21	0	1.004	83873036	16902445	678	1695	24930		E
Pyrene											
202.0783	35:21	35:21	0	1.000	178892855	35776763	458	1145	78115		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	0	0.705	25792780	4764711	68	170	70069		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:52	0	1.303	79937749	15099404	625	1562	24159		E
Benzo[a]anthracene											
228.0939	45:53	45:53	0	1.000	181222668	34547831	1567	3917	22047		
13C6-Chrysene											
234.1140	46:08	46:08	0	1.310	88662961	16063681	625	1562	25702		E
Chrysene											
228.0939	46:09	46:09	0	1.000	203231381	36474710	1567	3917	23277		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:30	0	0.984	75454275	21488875	52	130	413248		E
Benzo[b]fluoranthene											
252.0939	54:30	54:30	0	1.000	177426764	52816265	210	525	251506		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:32	0	0.985	61885518	18030374	554	1385	32546		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	0	0.986	88604977	24761579	52	130	476184		E
Benzo[k]fluoranthene											
252.0939	54:39	54:39	0	1.000	199239189	58830623	210	525	280146		
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		48828180	16183918	523	1307	30944		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:28	0	1.002	96526872	33406444	161	402	207493		E
Benzo[e]pyrene											
252.0939	55:28	55:28	0	1.000	187190891	63498465	210	525	302374		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:37	0	1.004	88710239	31112940	161	402	193248		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:37	55:37	0	1.000	192586625	71569408	210	525	340807		
Perylene-d12											
264.1692	55:47	55:47	0	1.007	61755807	22387435	523	1307	42806		E
Perylene											
252.0939	55:51	55:51	0	1.001	200268409	74222336	210	525	353440		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	0	1.046	62400977	22329838	323	807	69133		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	0	1.000	146498509	55925818	177	442	315965		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	0	1.047	61996731	23330680	199	497	117240		E
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	0	1.000	149718757	54308221	142	355	382452		
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	60899486	22667753	44	110	515176		
Benzo[g,h,i]perylene											
276.0939	58:24	58:24	0	1.000	162509290	55904837	177	442	315847		

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

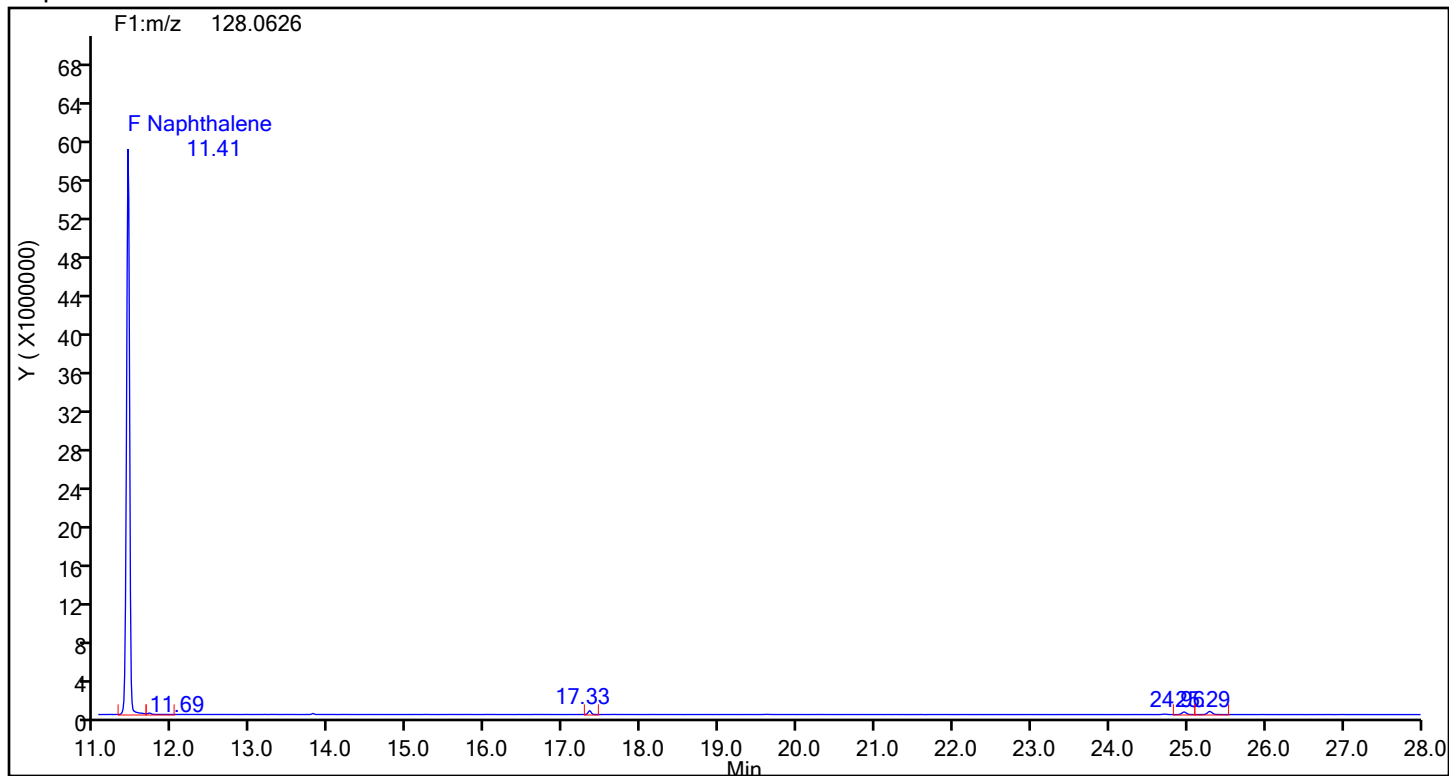
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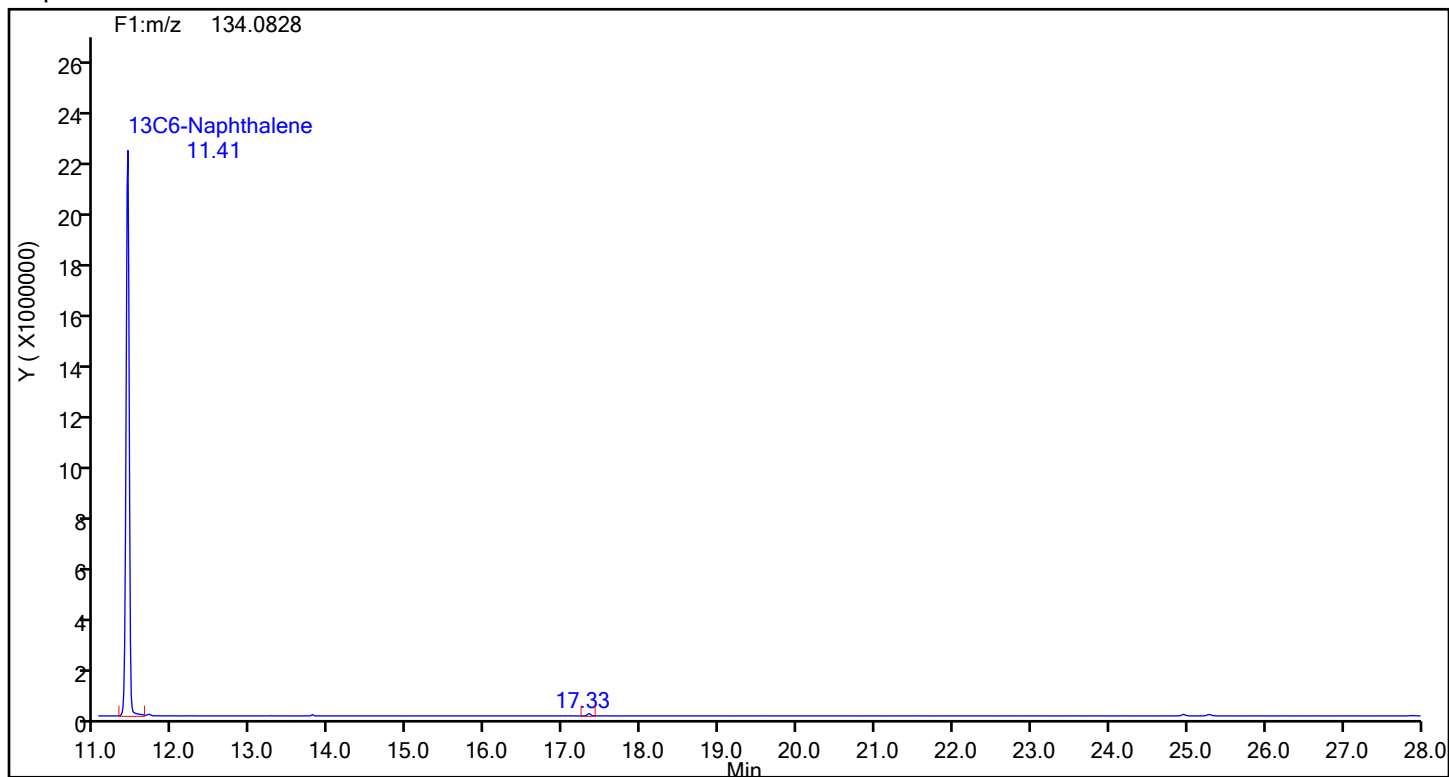
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



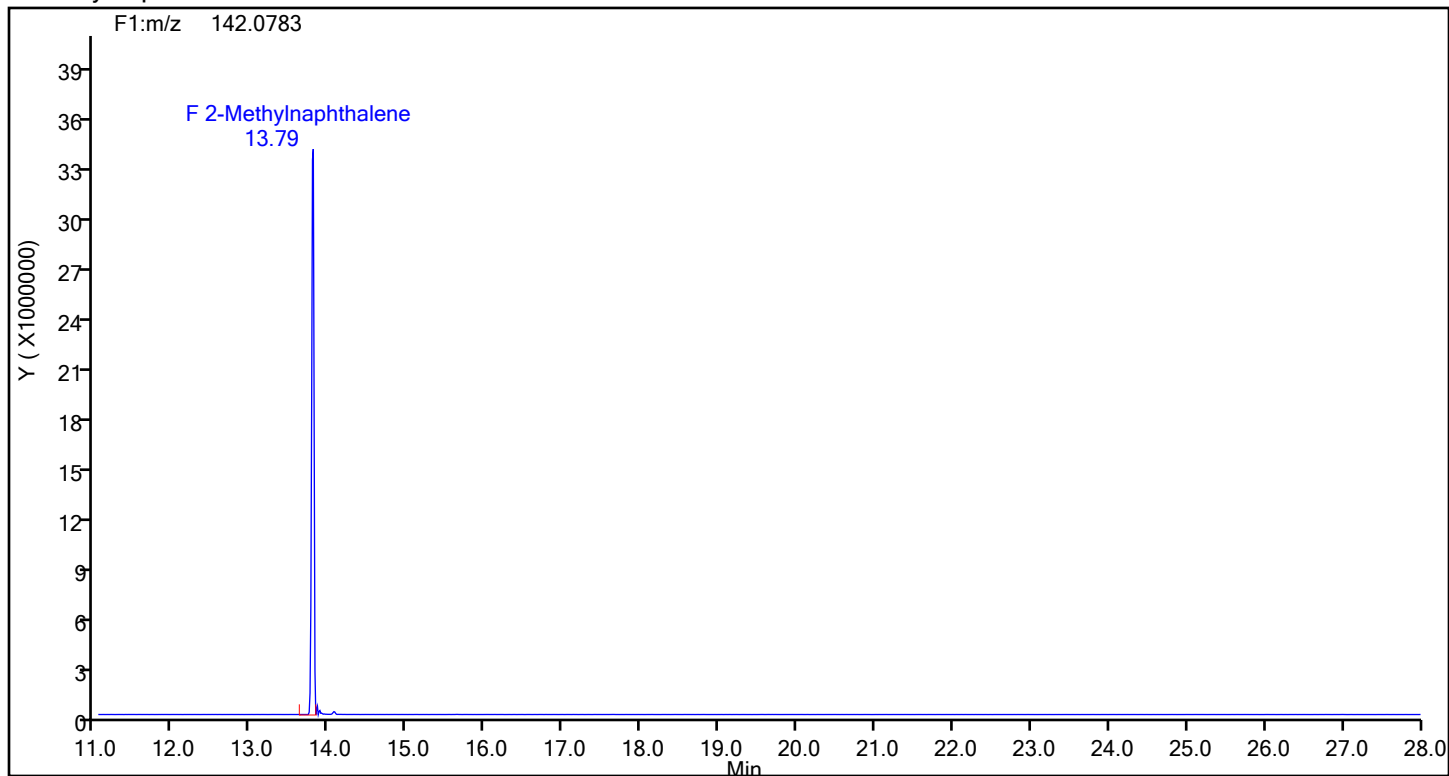
Naphthalene Standards



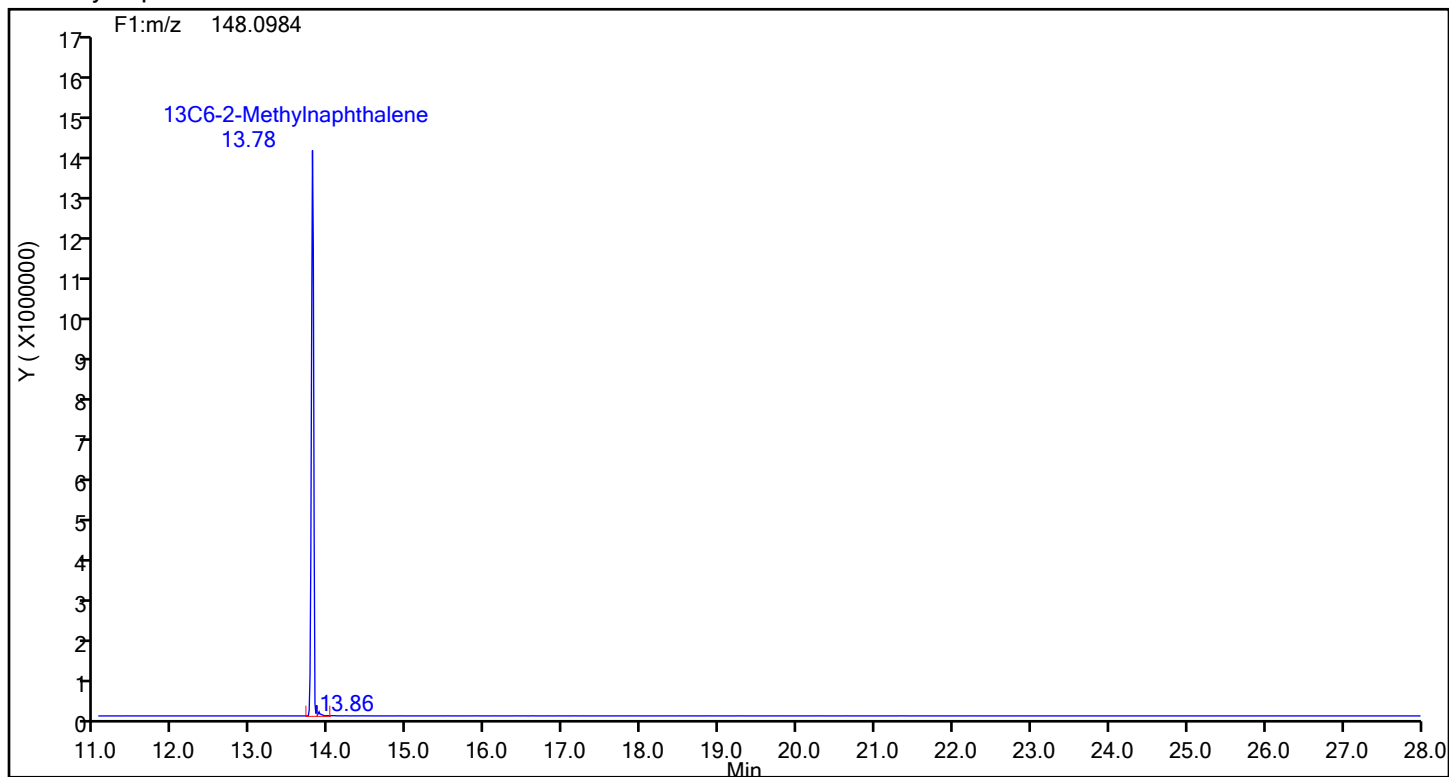
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
Injection Date: 18-Jul-2024 10:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



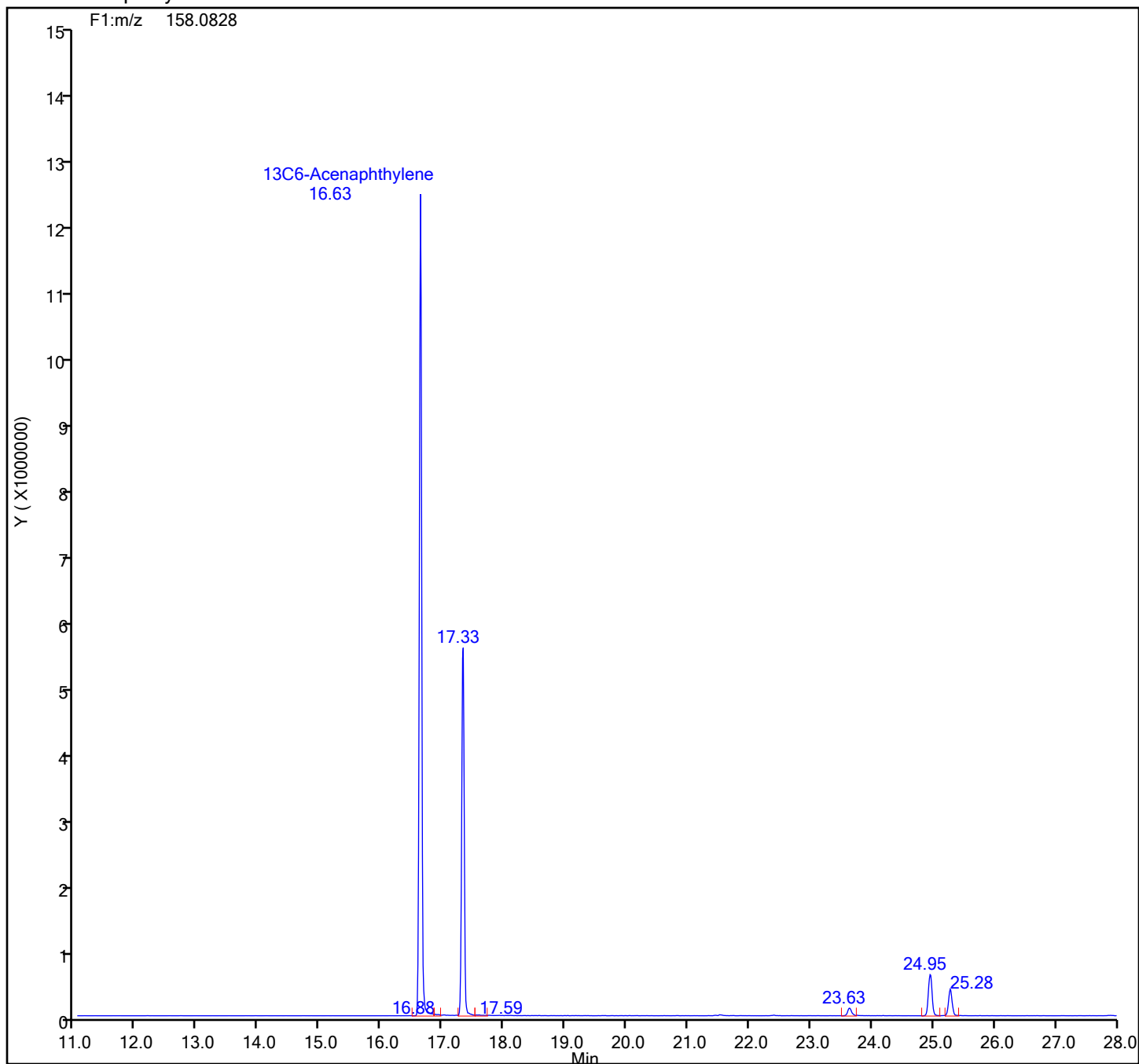
2-Methylnaphthalene Standards



Eurofins Knoxville

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Injection Date: 18-Jul-2024 10:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

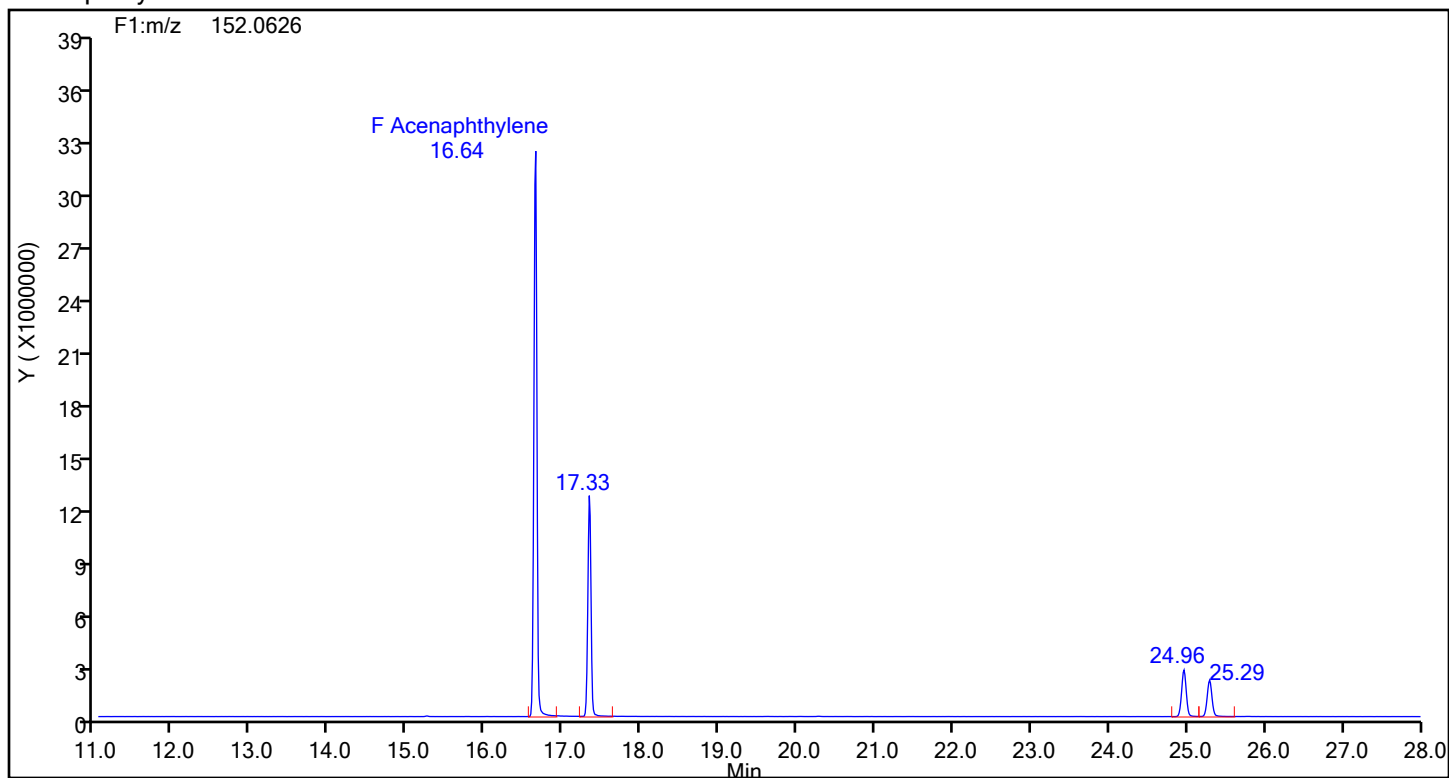
13C6-Acenaphthylene Standards



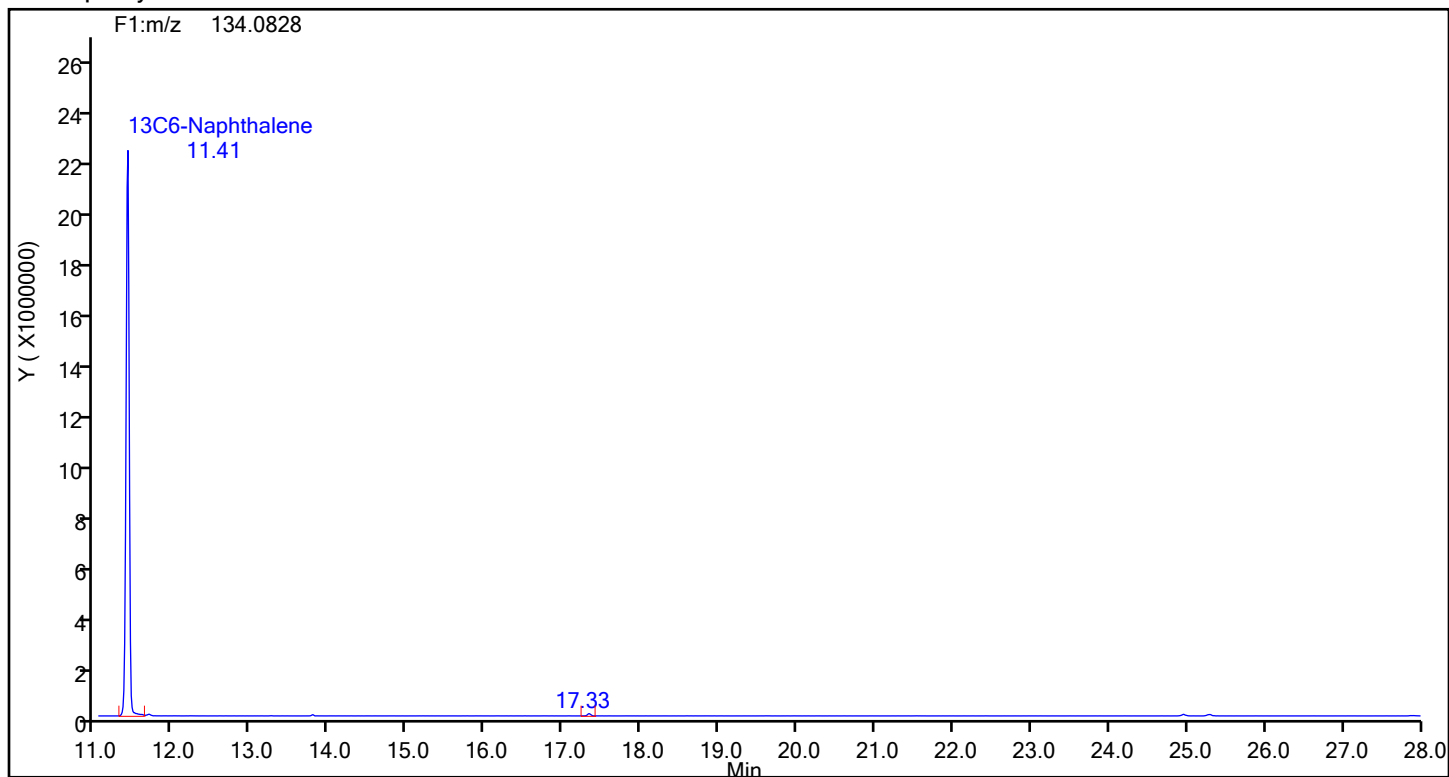
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
Injection Date: 18-Jul-2024 10:51:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



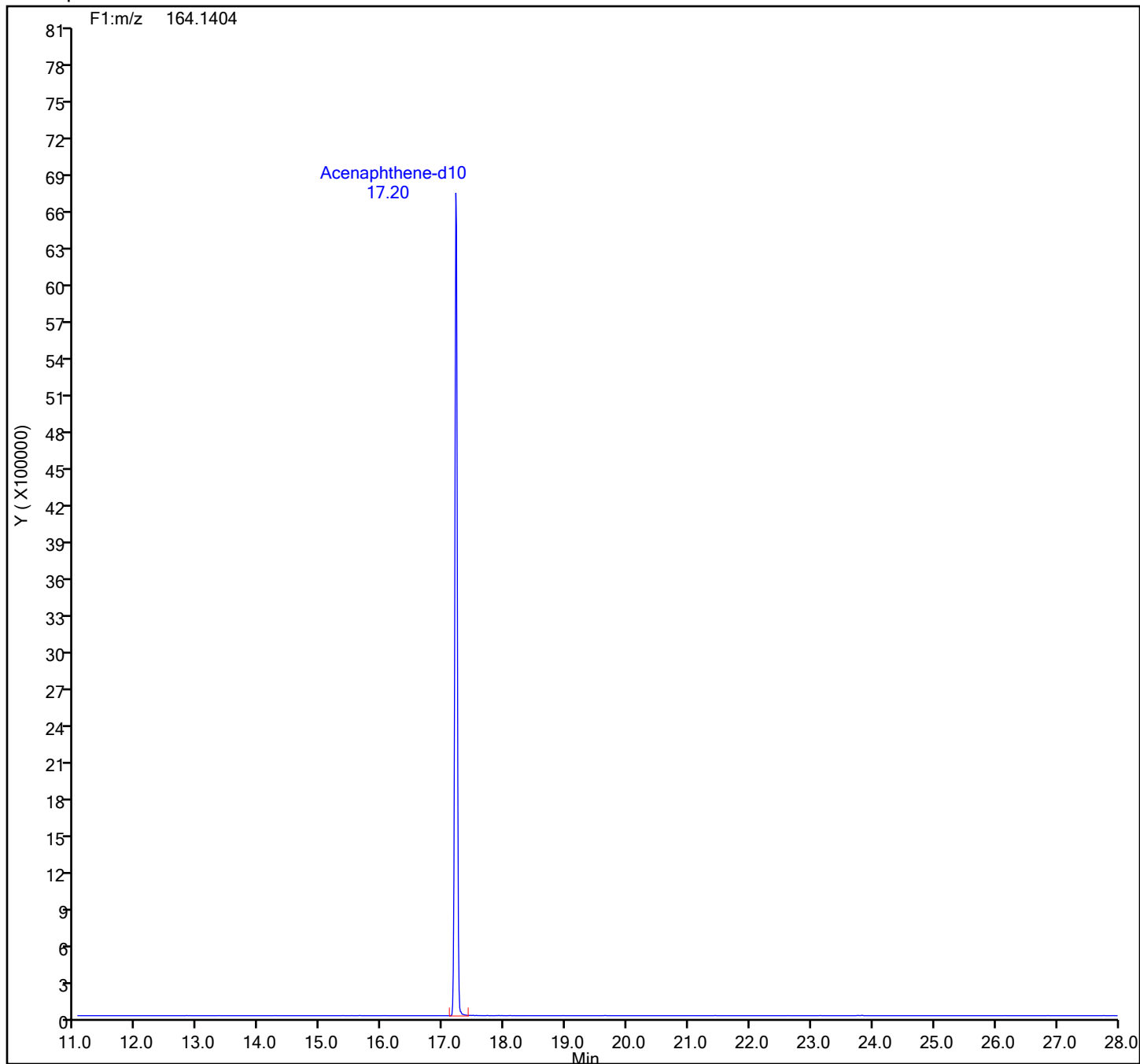
Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\d3240718c1a.d
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

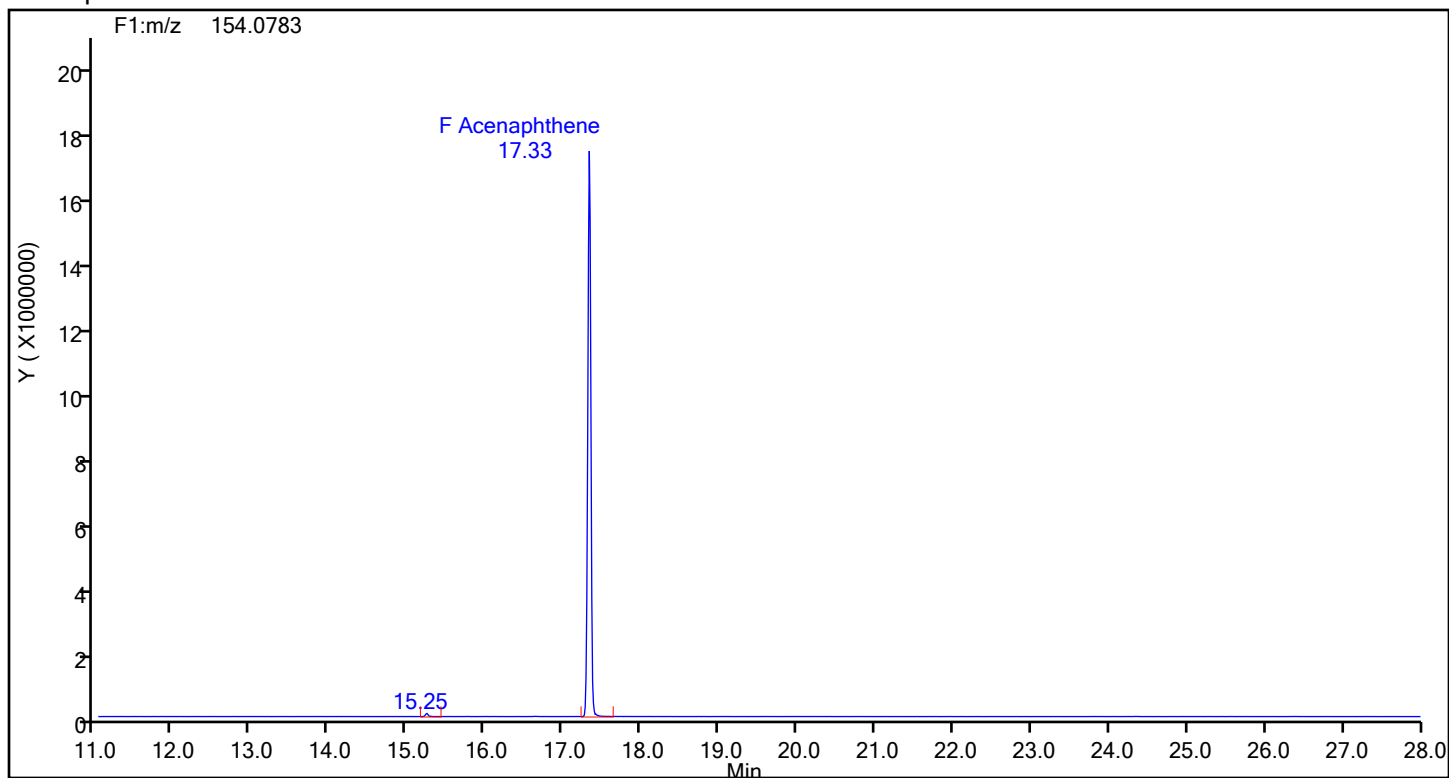
Acenaphthene-d10 Standards



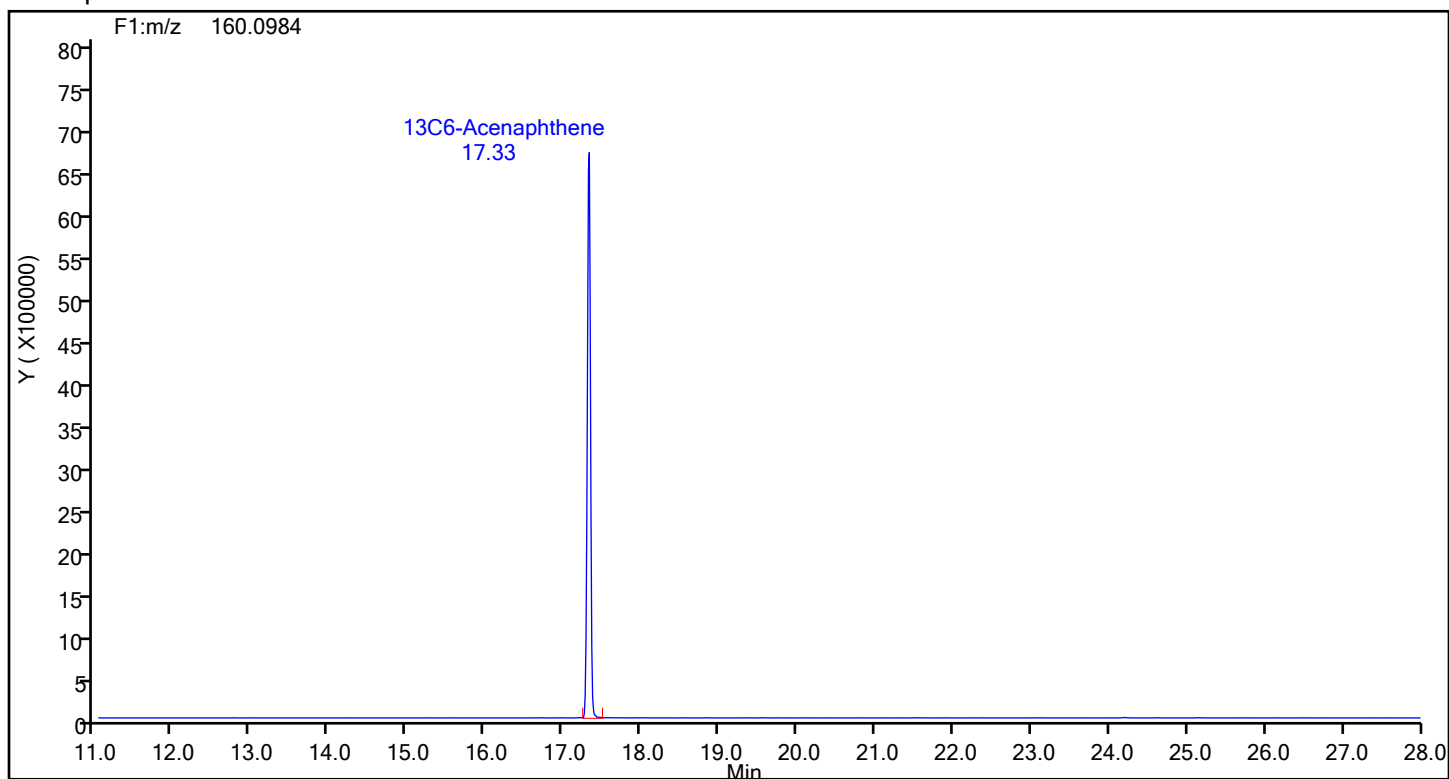
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



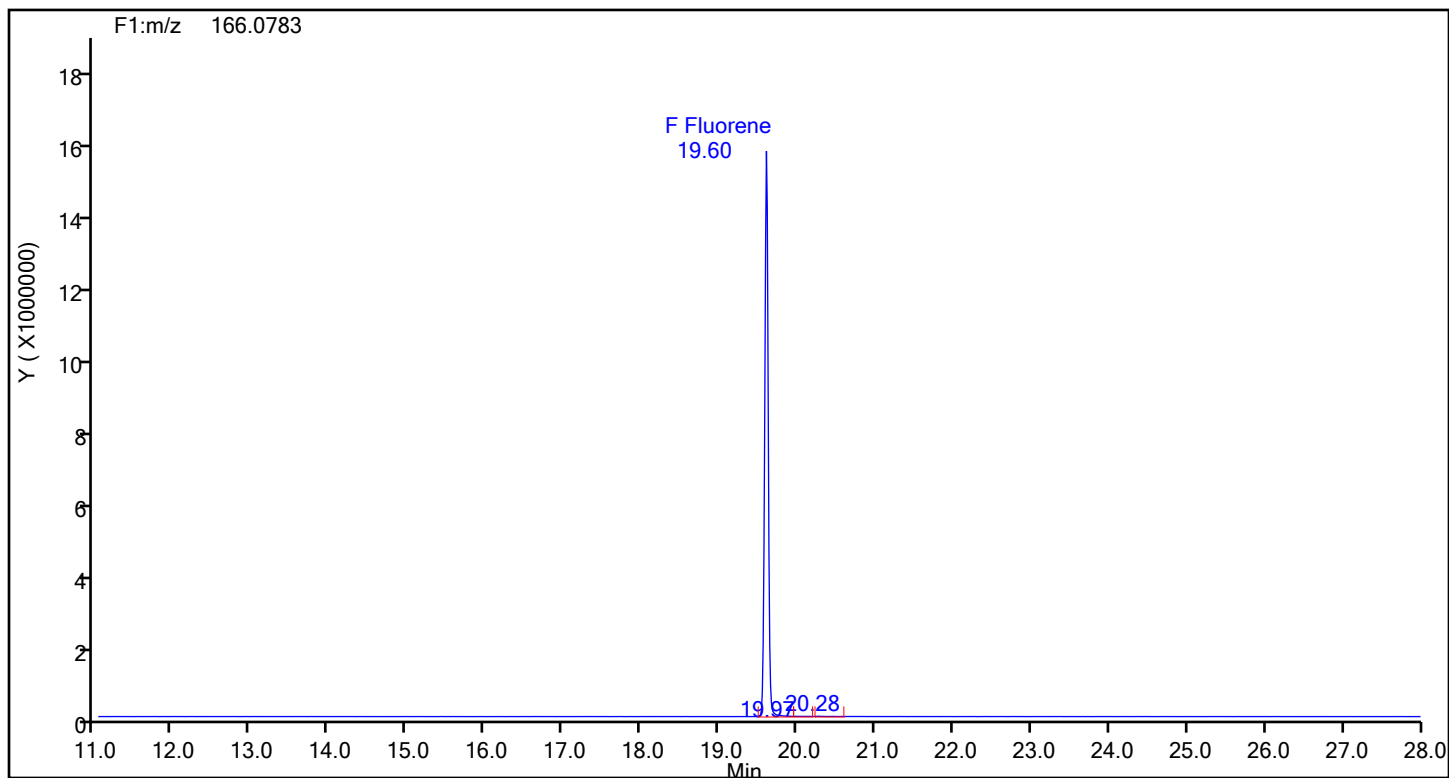
Acenaphthene Standards



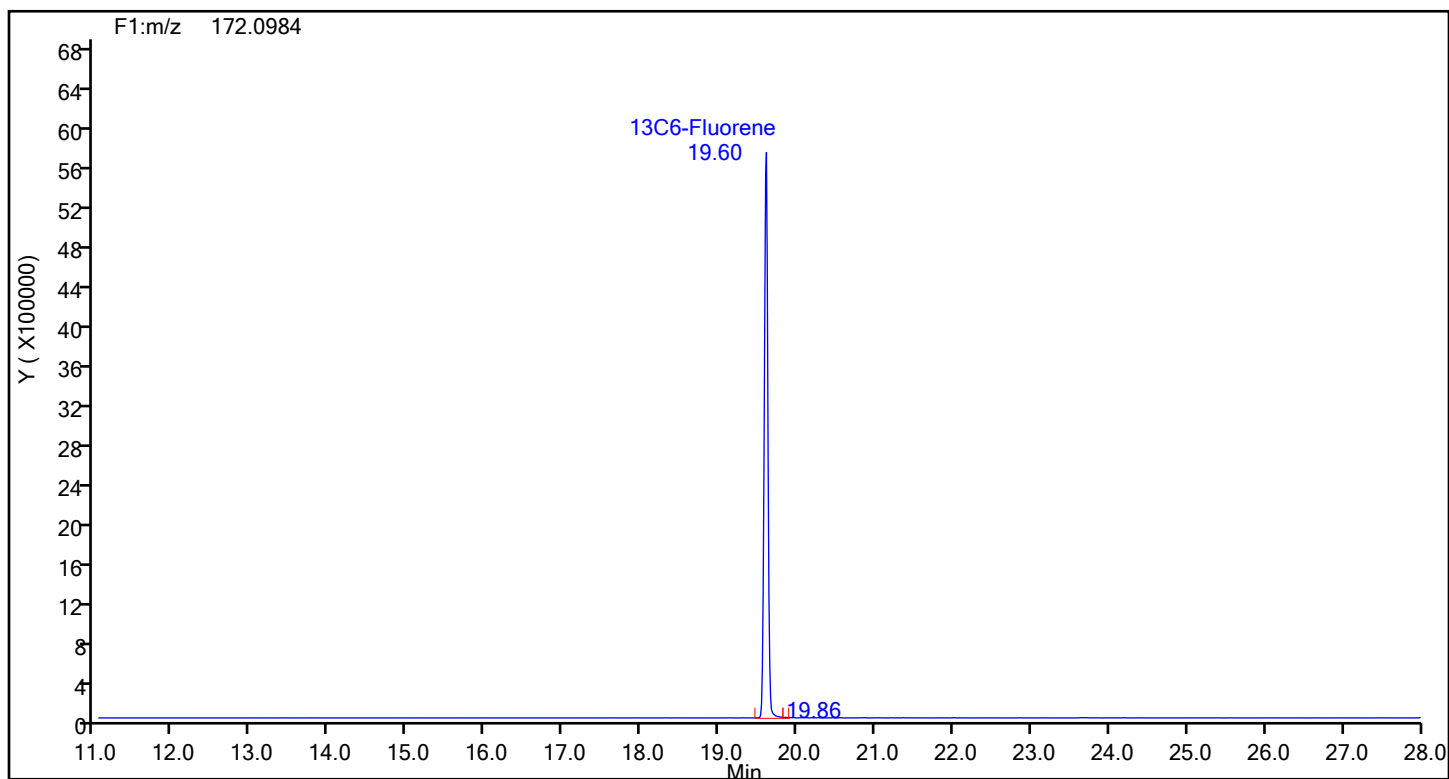
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



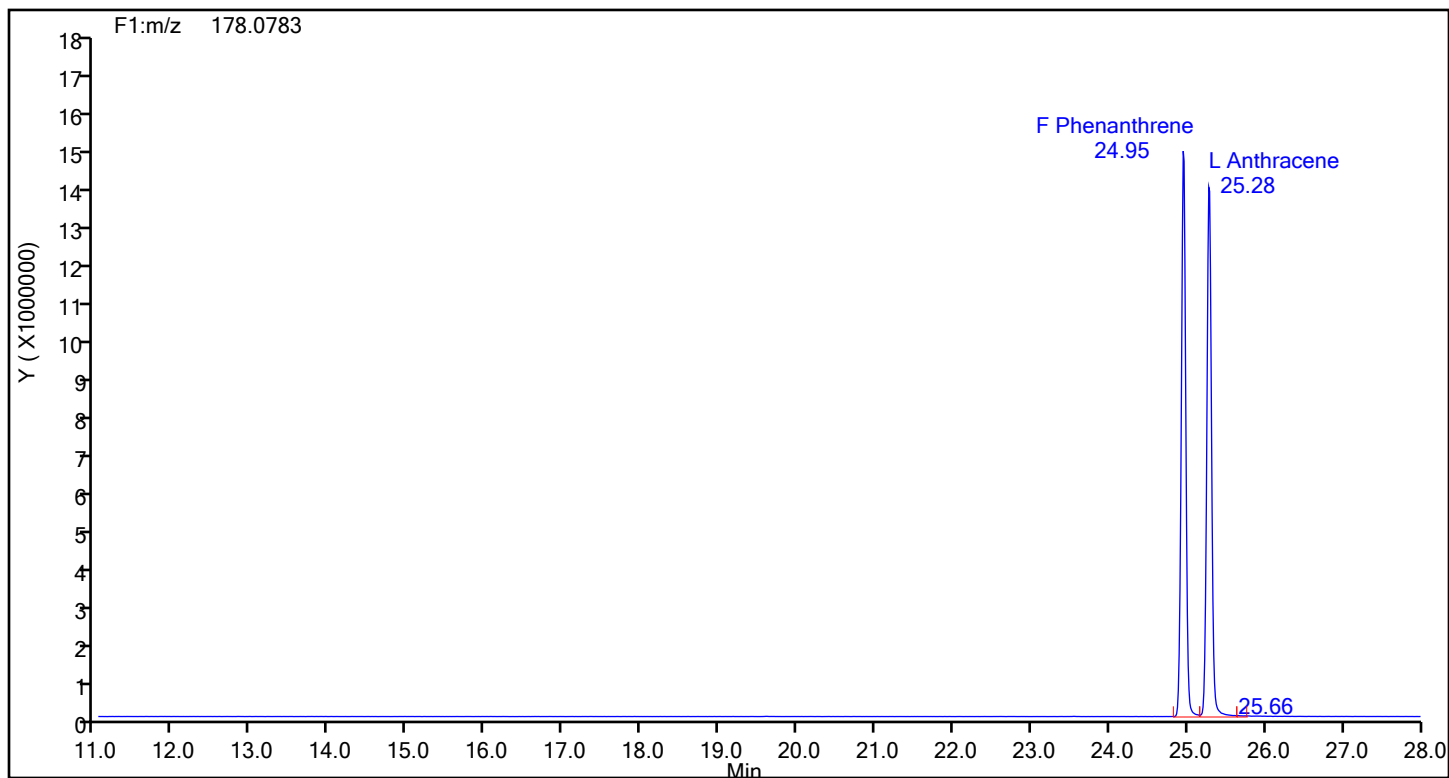
Fluorene Standards



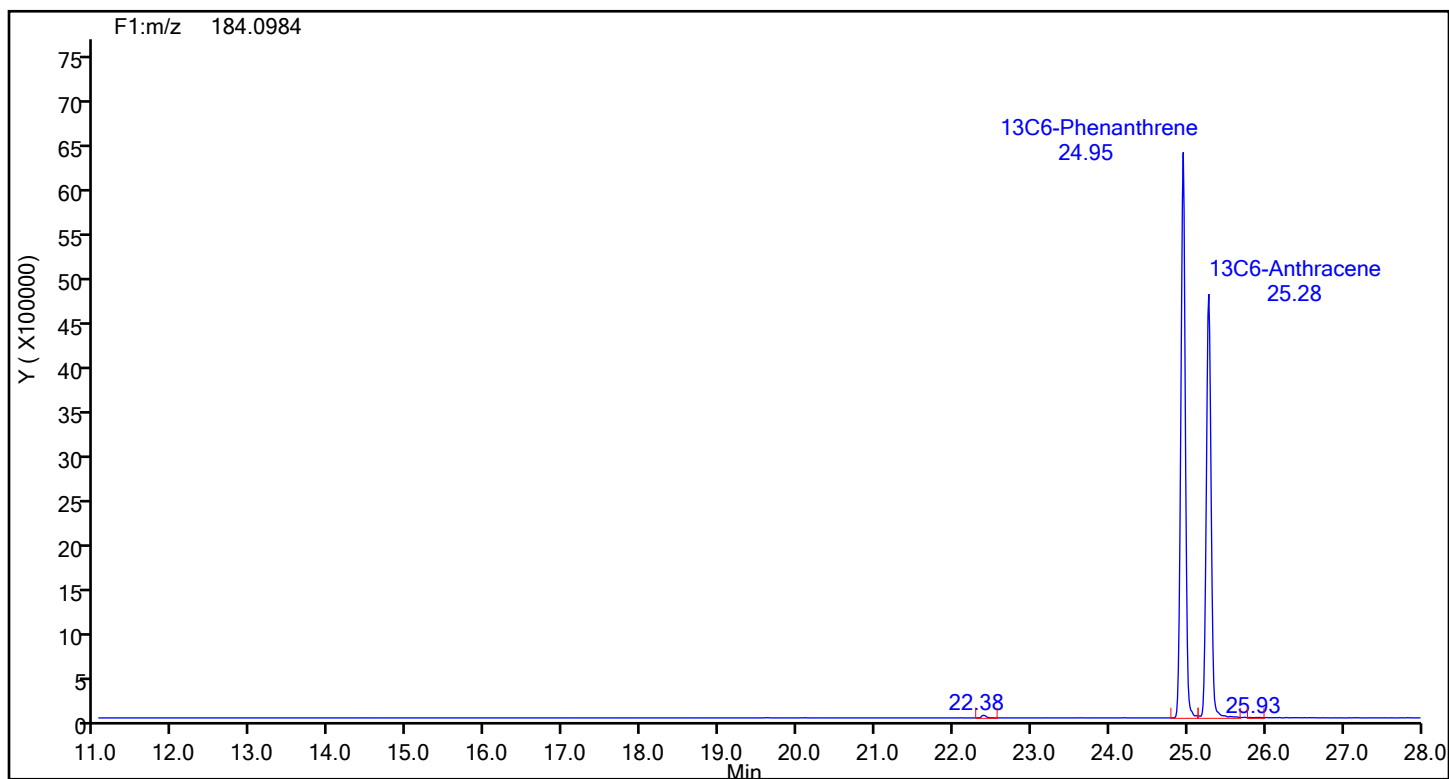
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

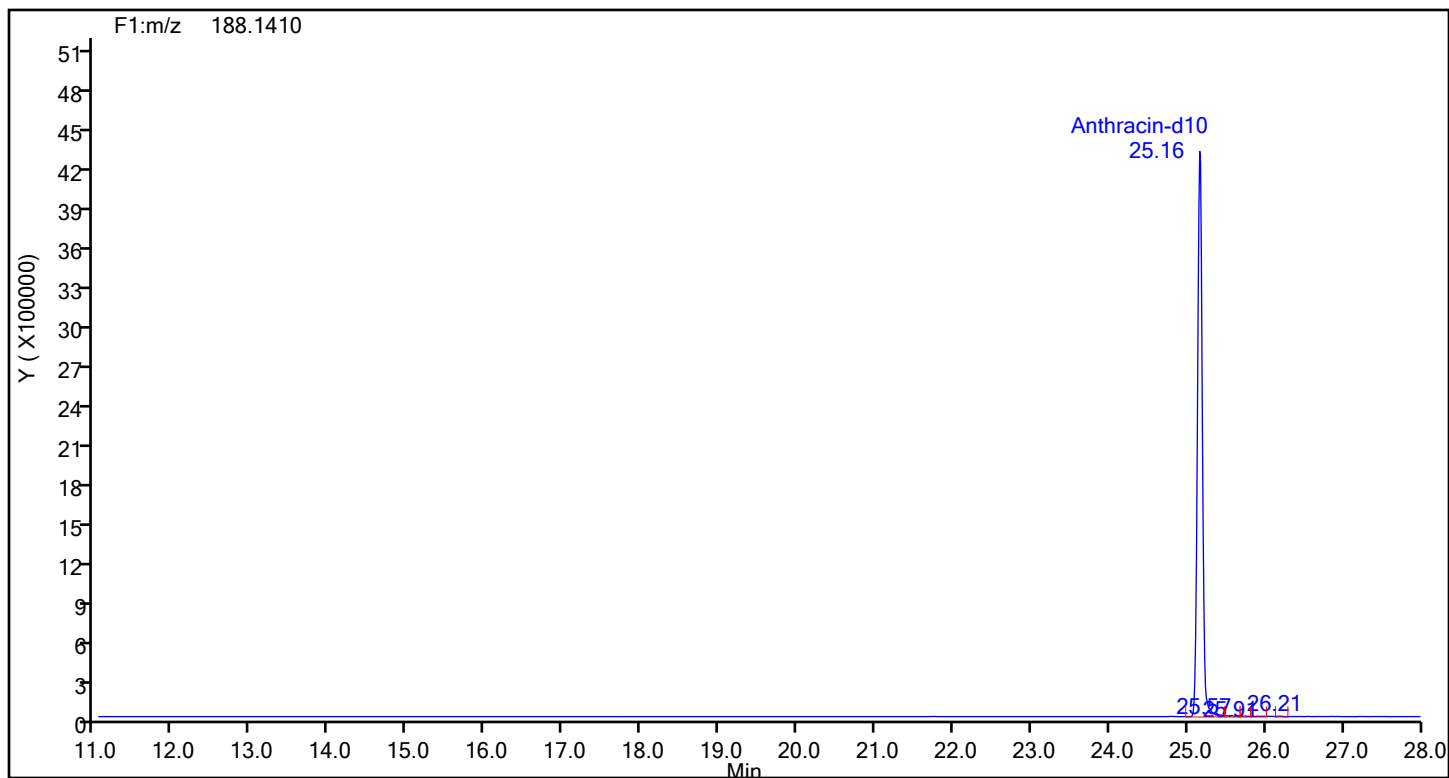


Phenanthrene Standards

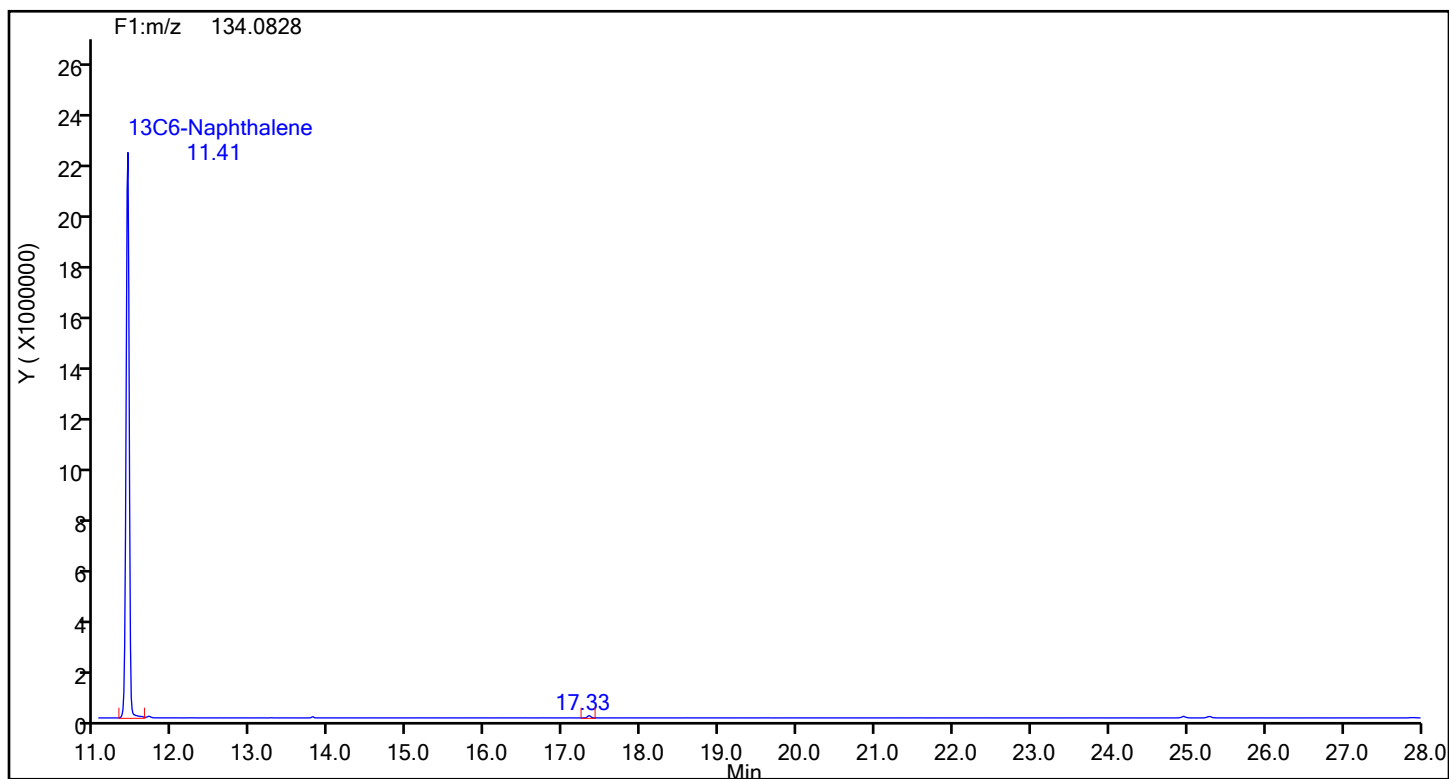


Eurofins Knoxville

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Client ID:
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Anthracin-d10

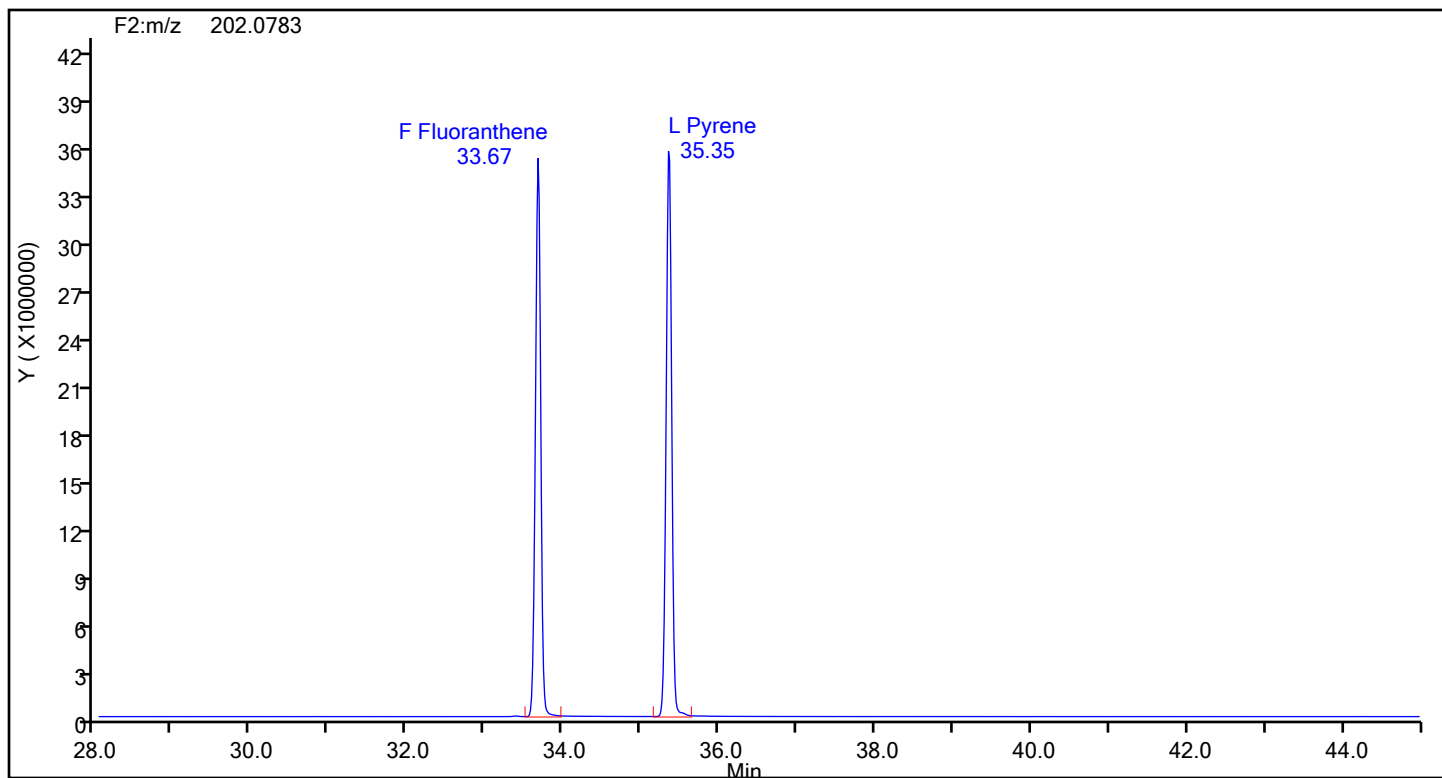


Anthracin-d10 Standards

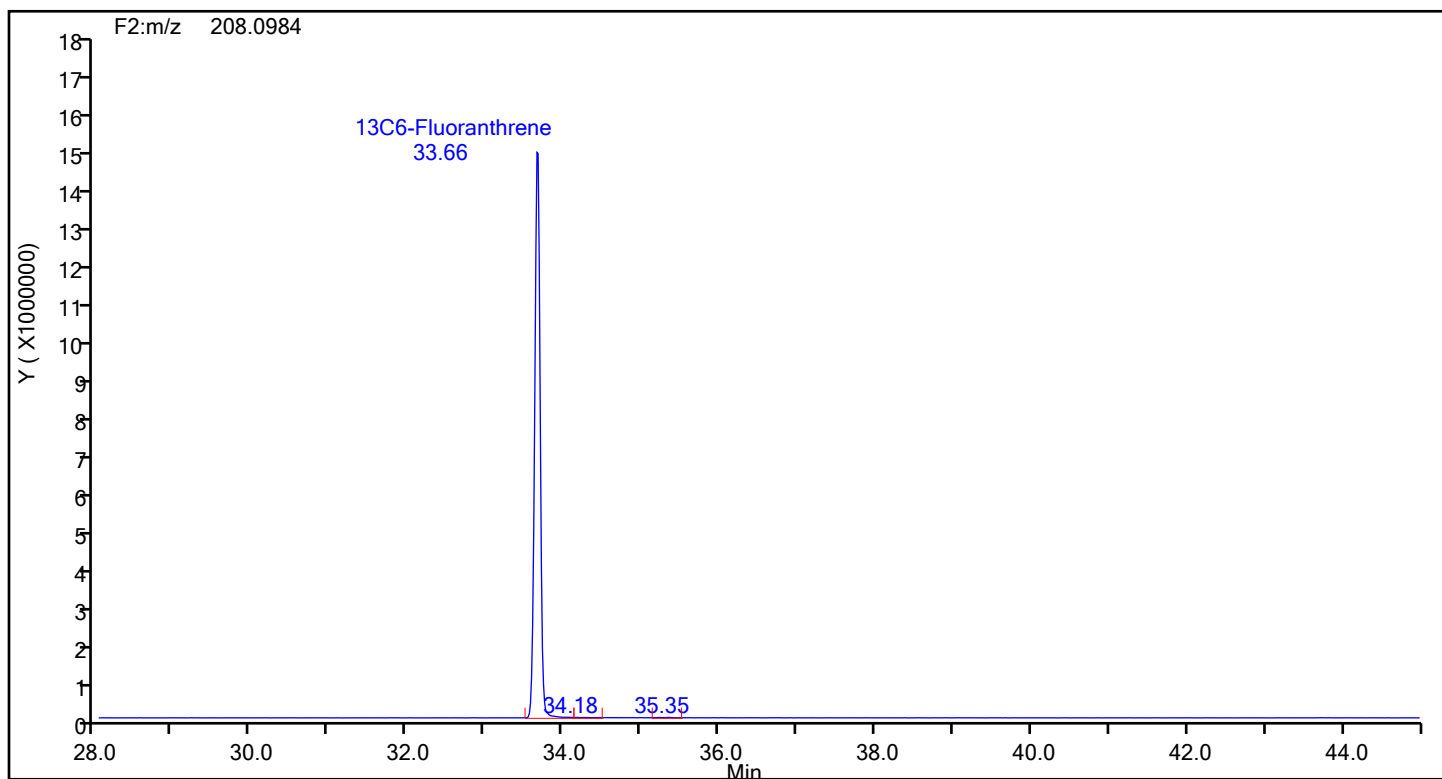


Eurofins Knoxville

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Fluoranthene



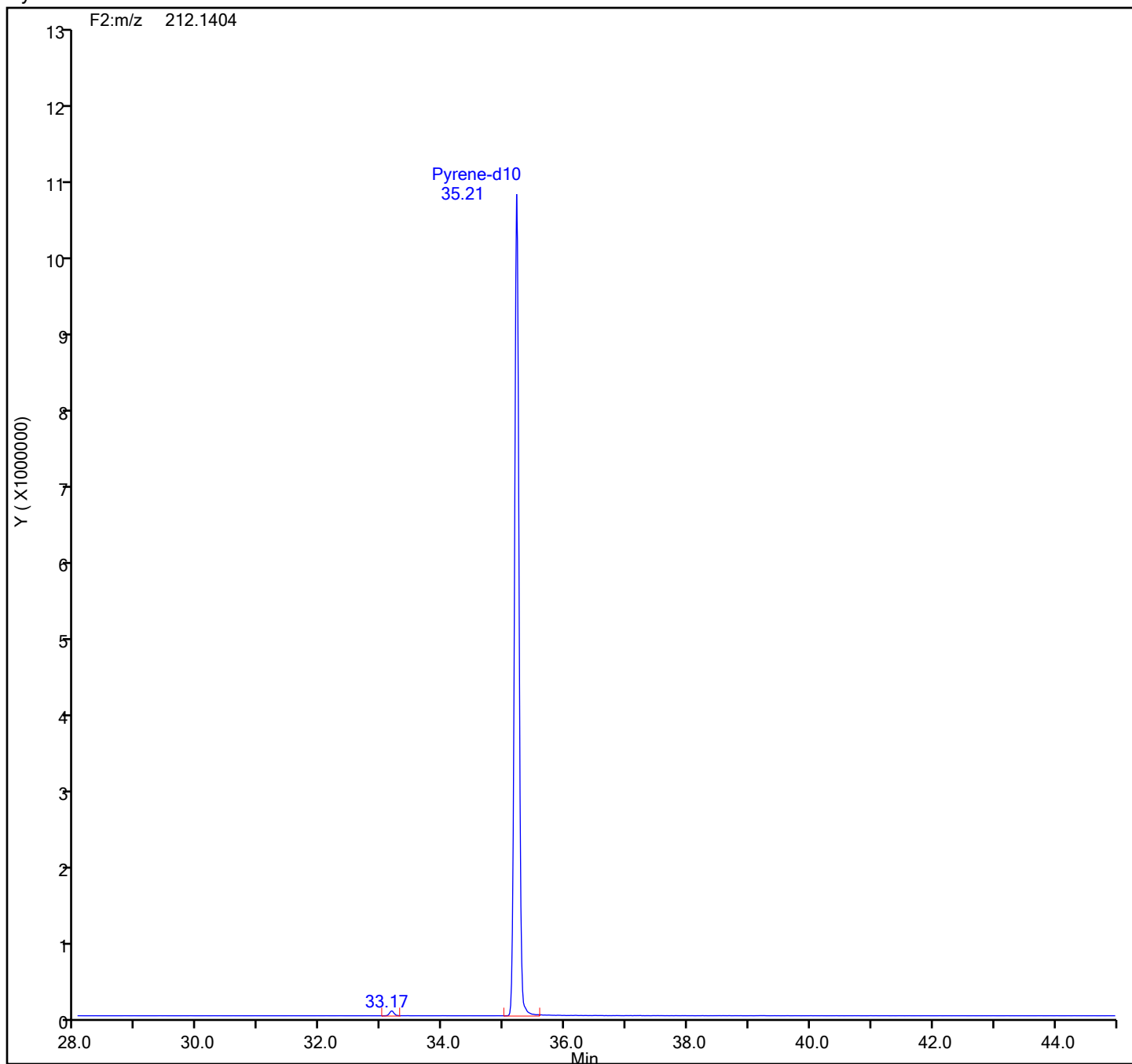
Fluoranthene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

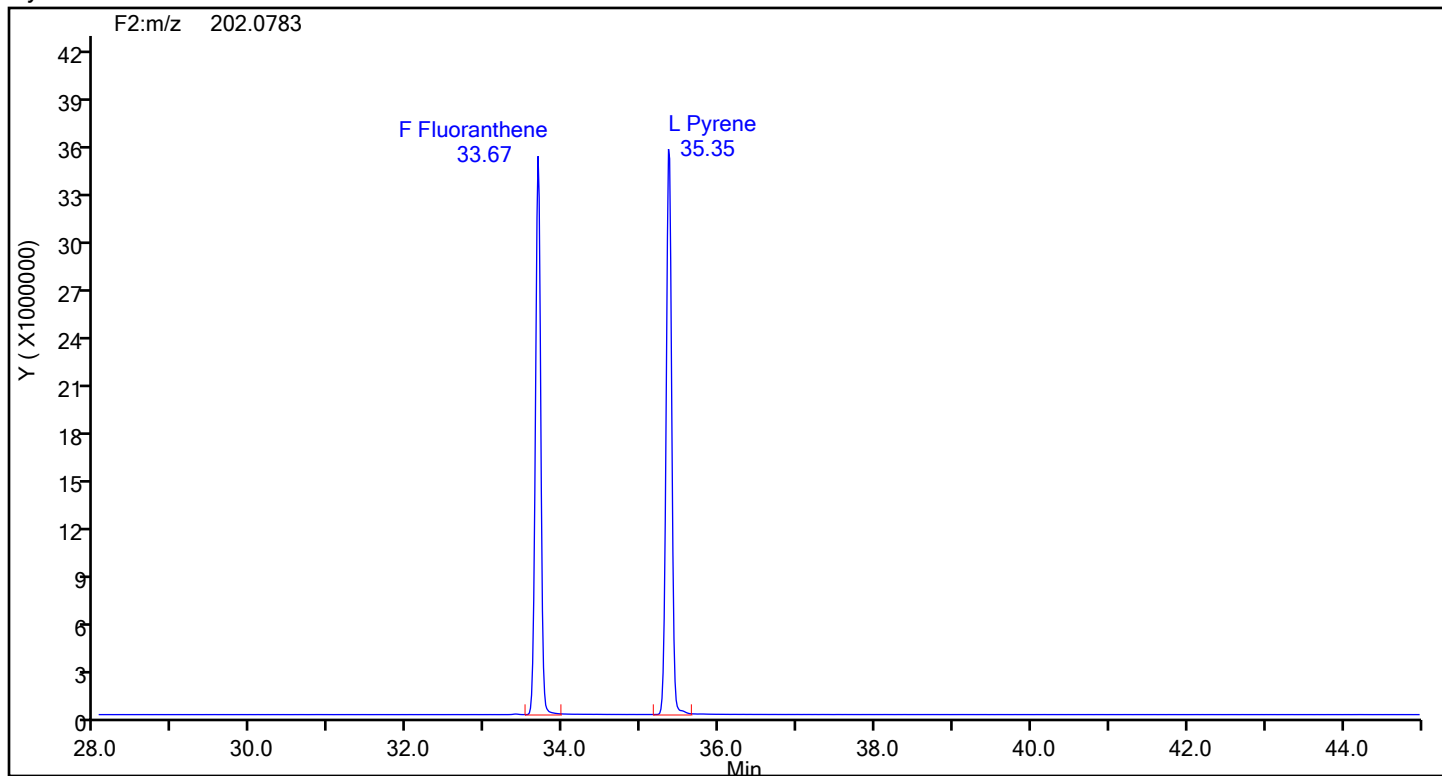
Pyrene-d10 Standards



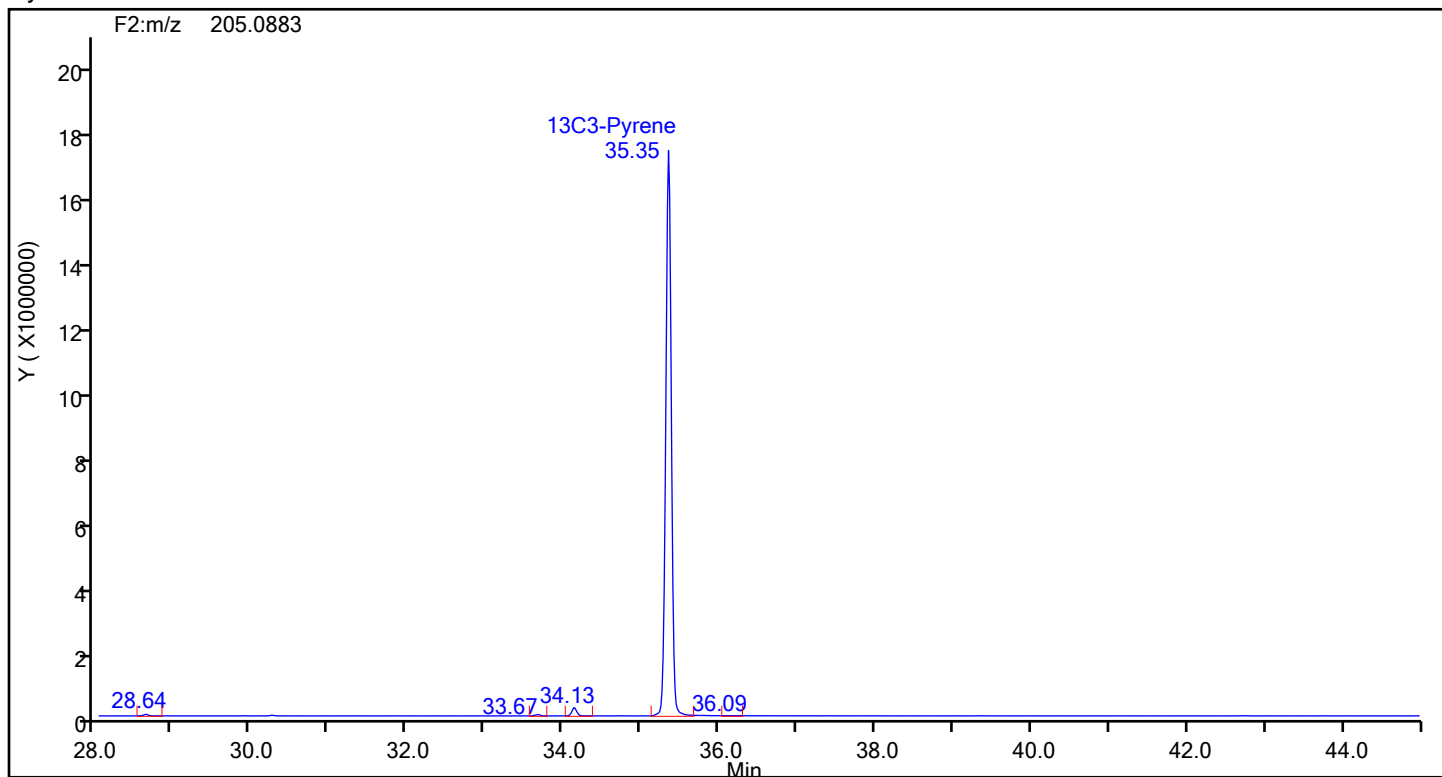
Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



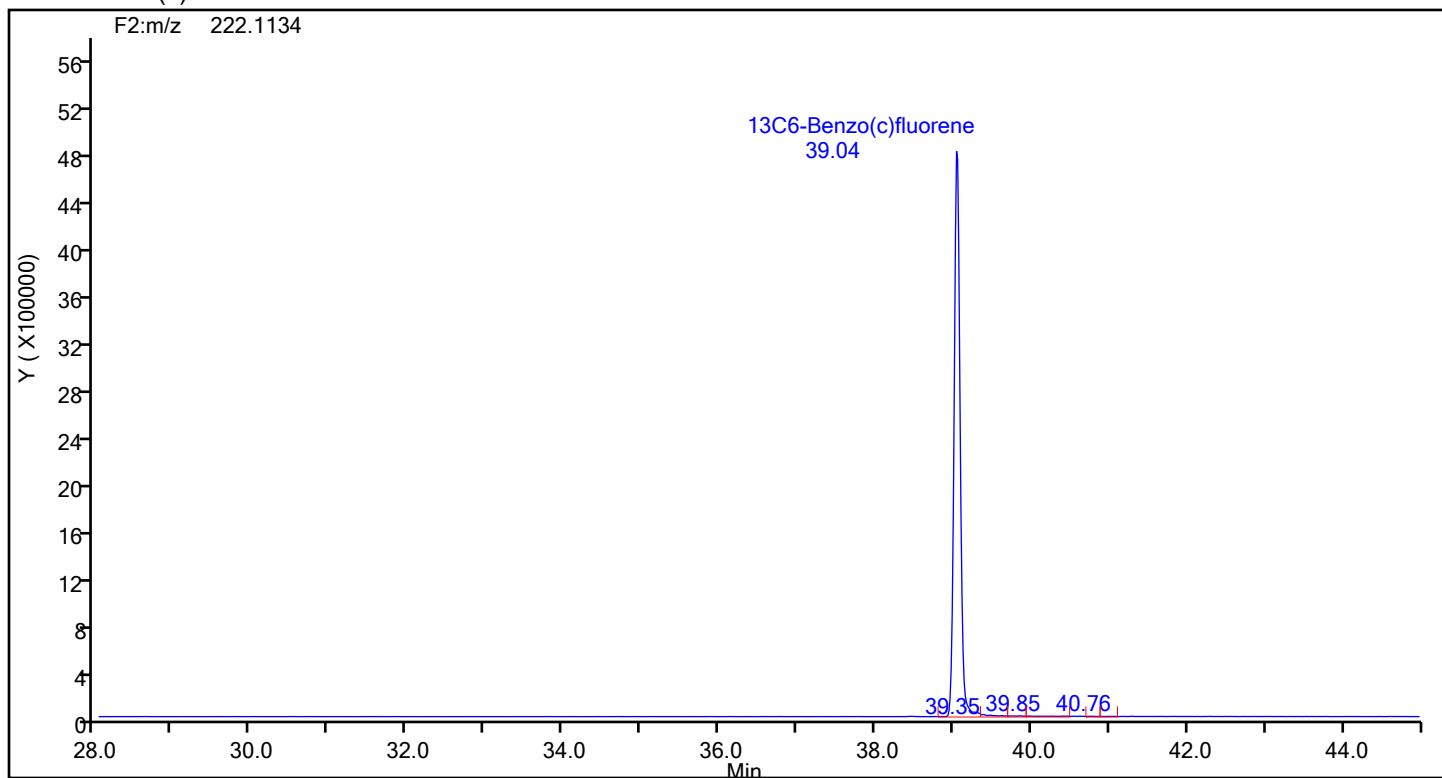
Pyrene Standards



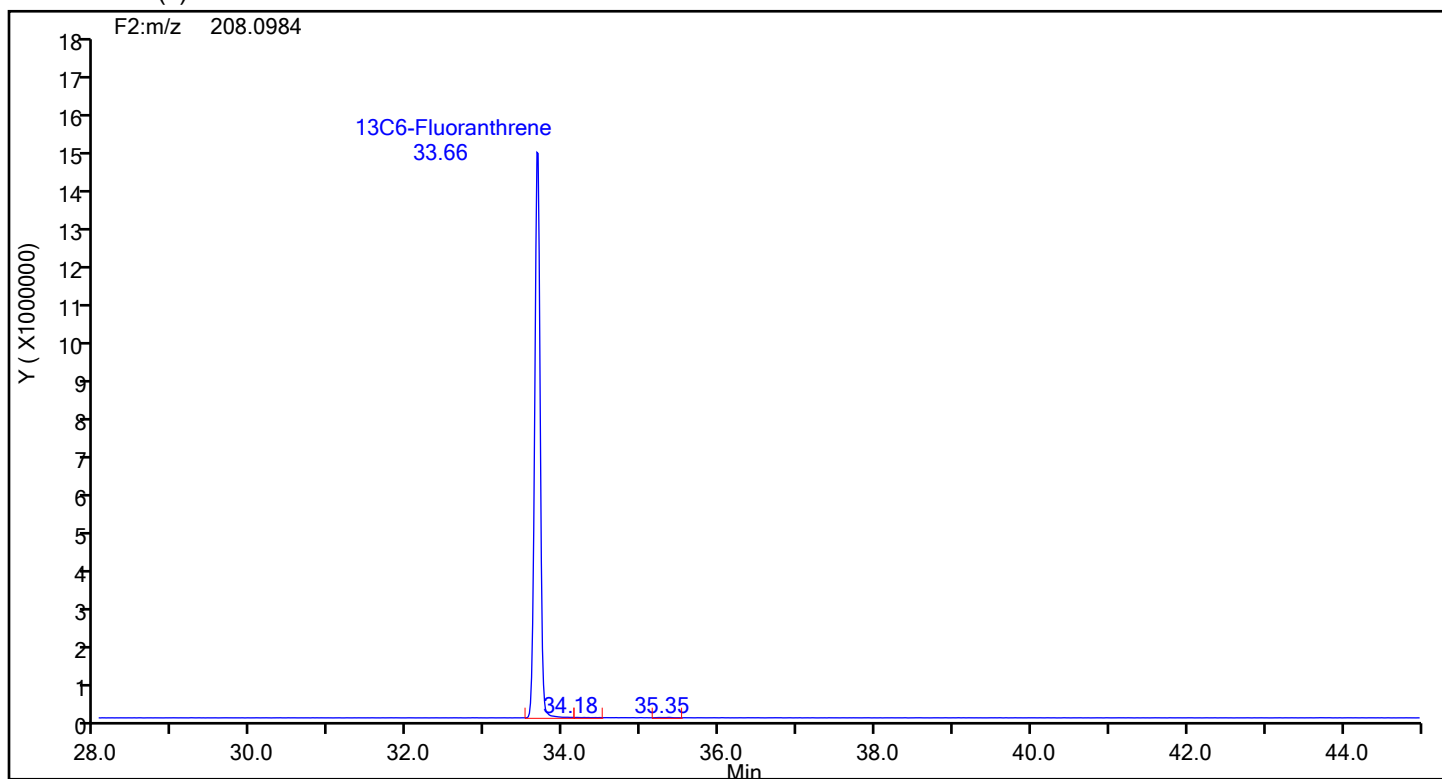
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



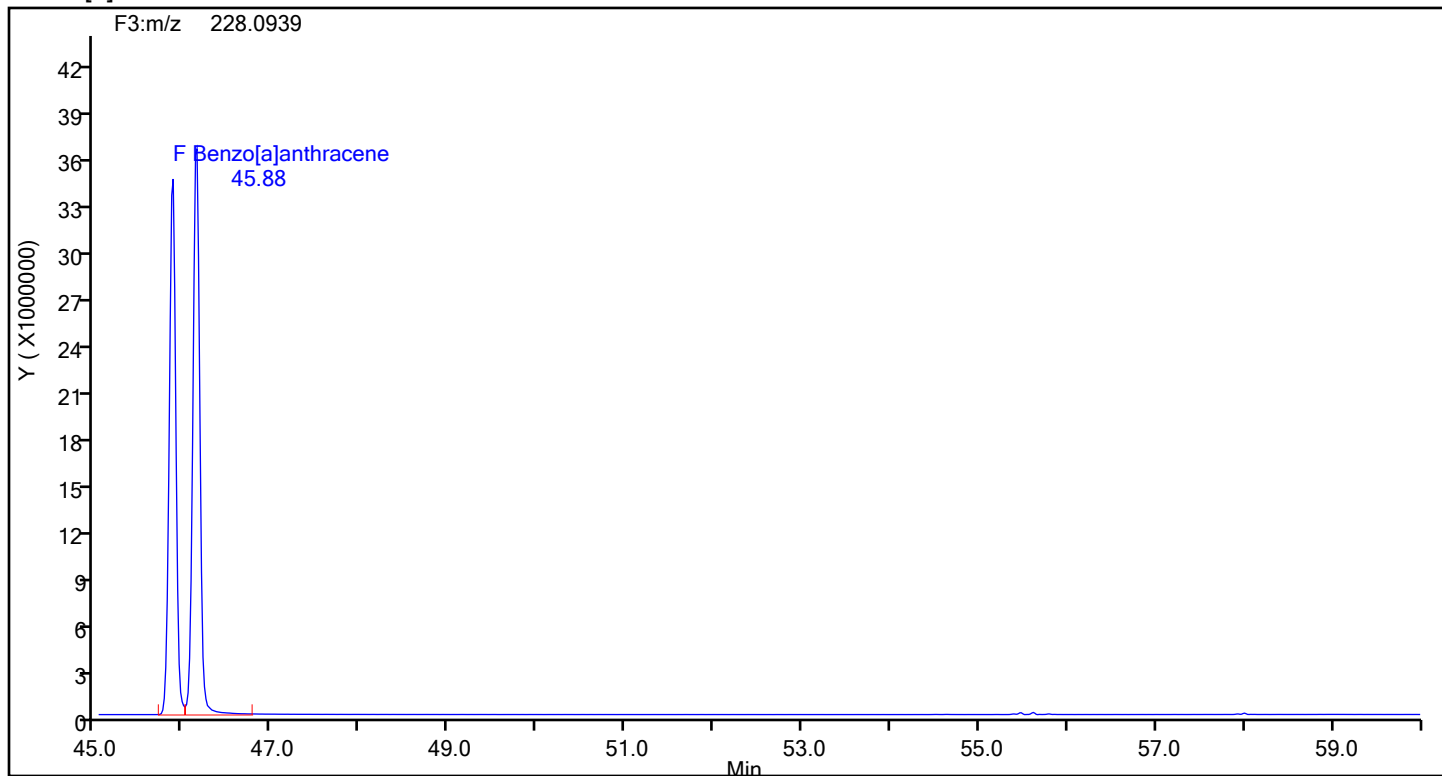
13C6-Benzo(c)fluorene Standards



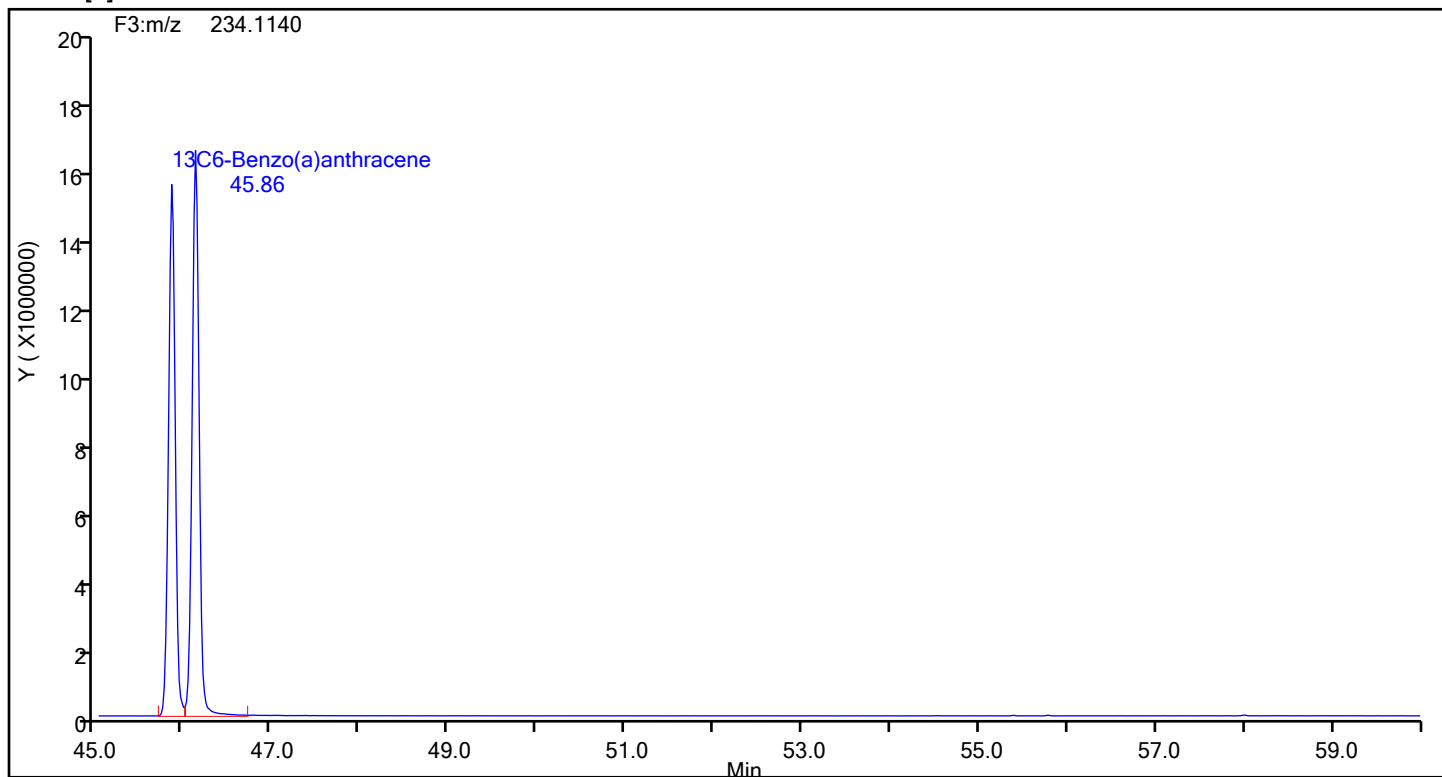
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



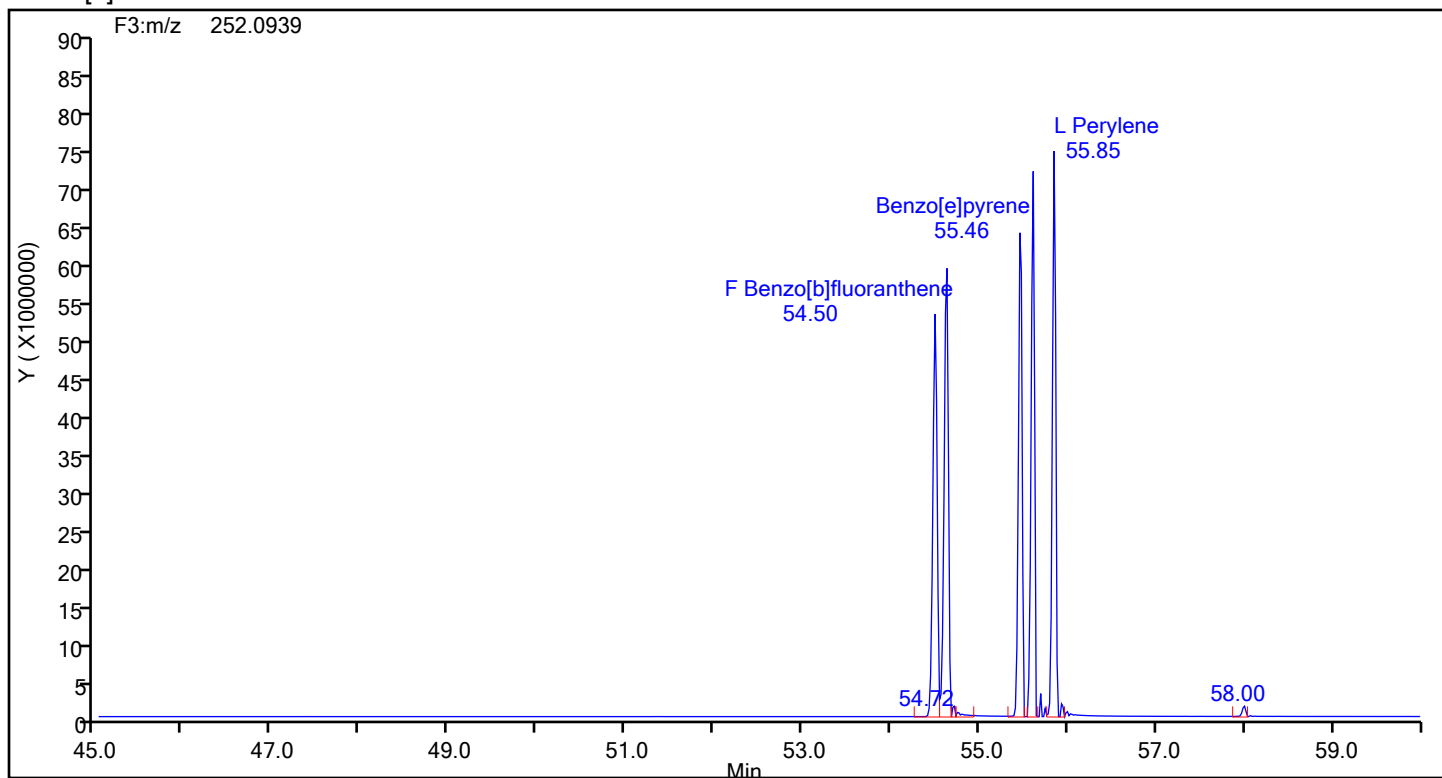
Benzo[a]anthracene Standards



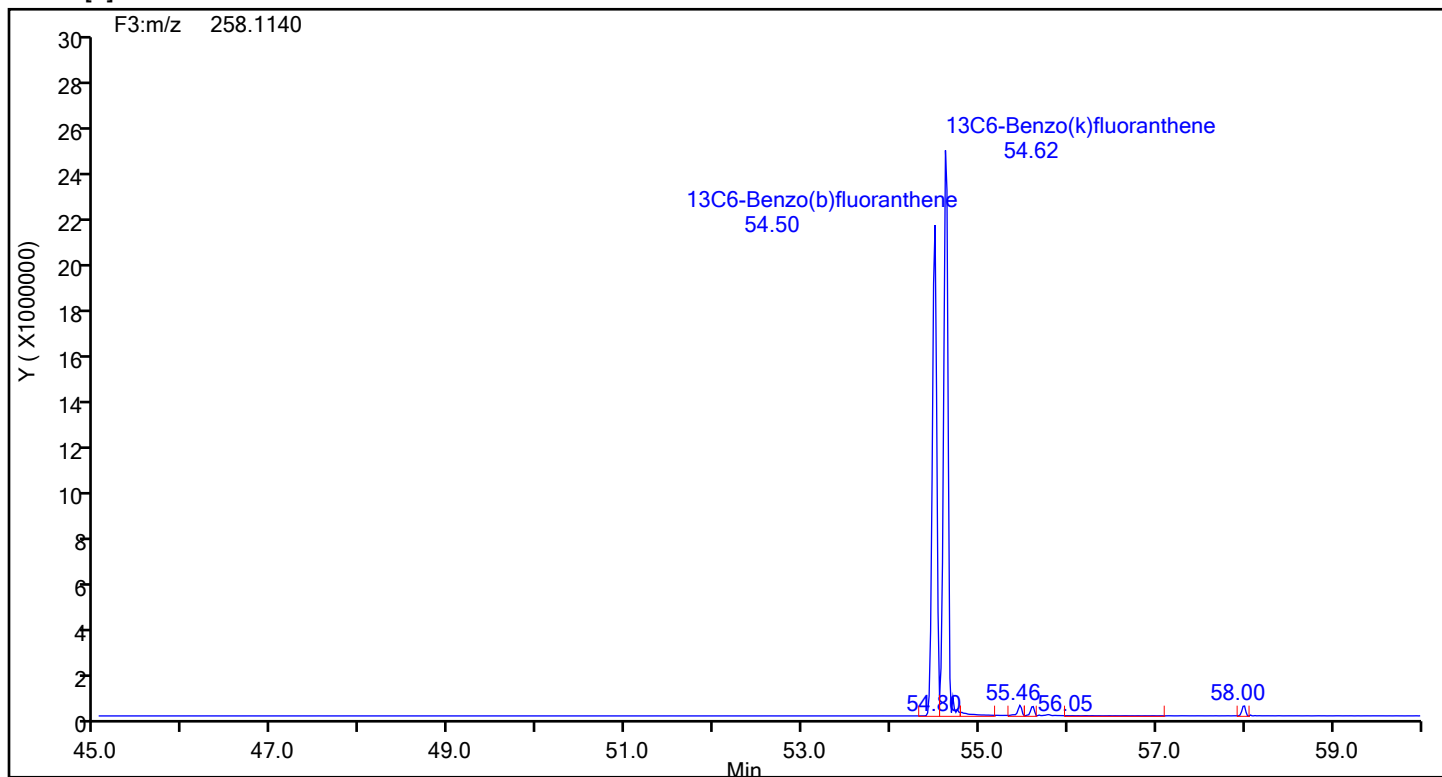
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



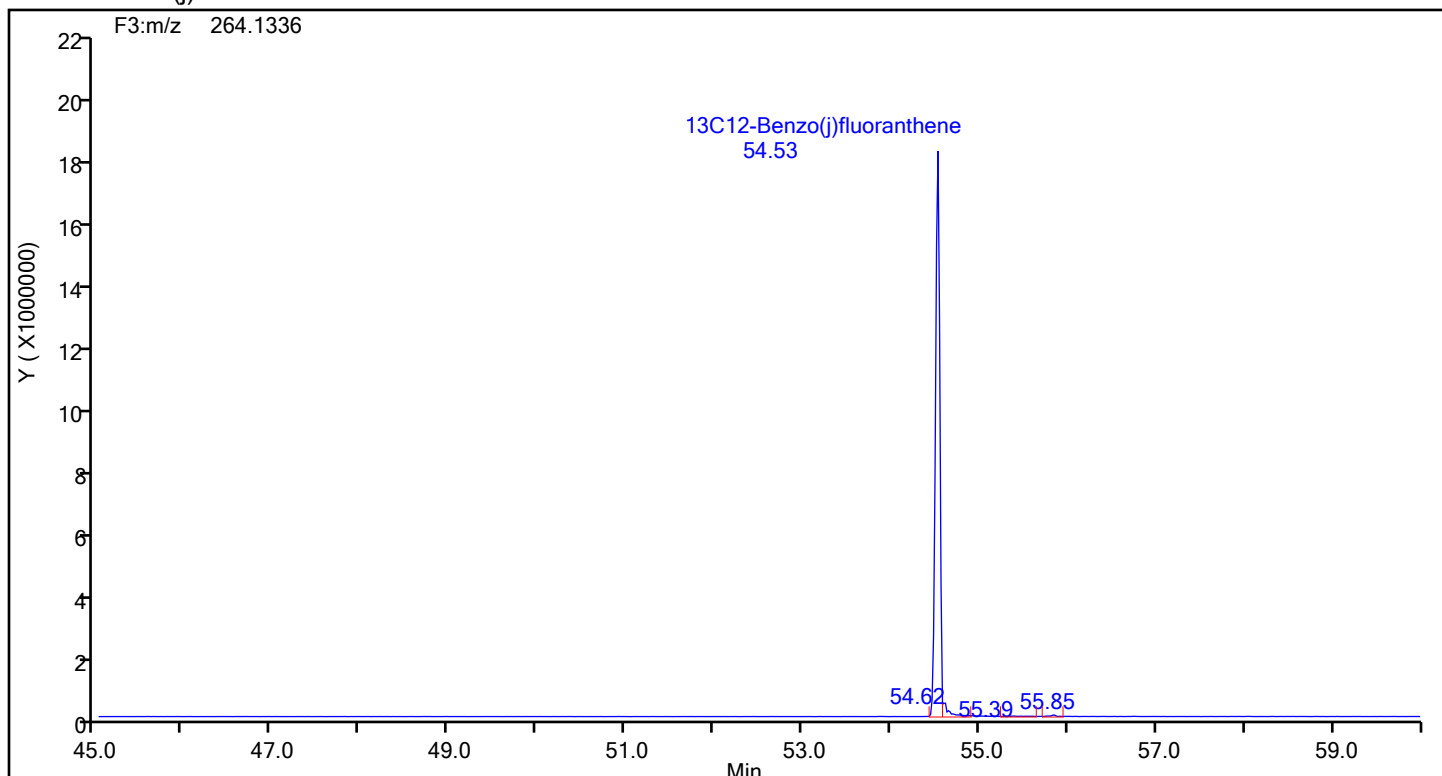
Benzo[b]fluoranthene Standards



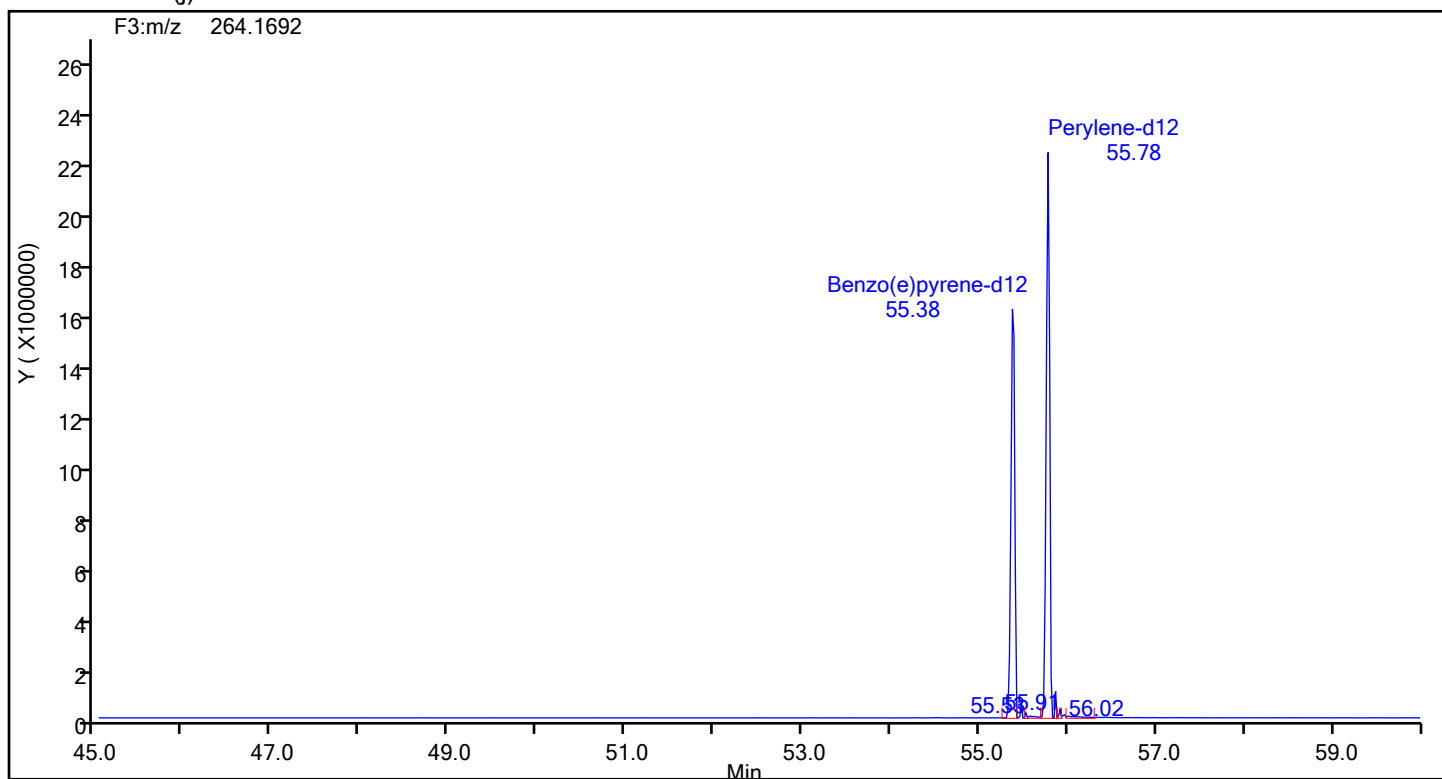
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



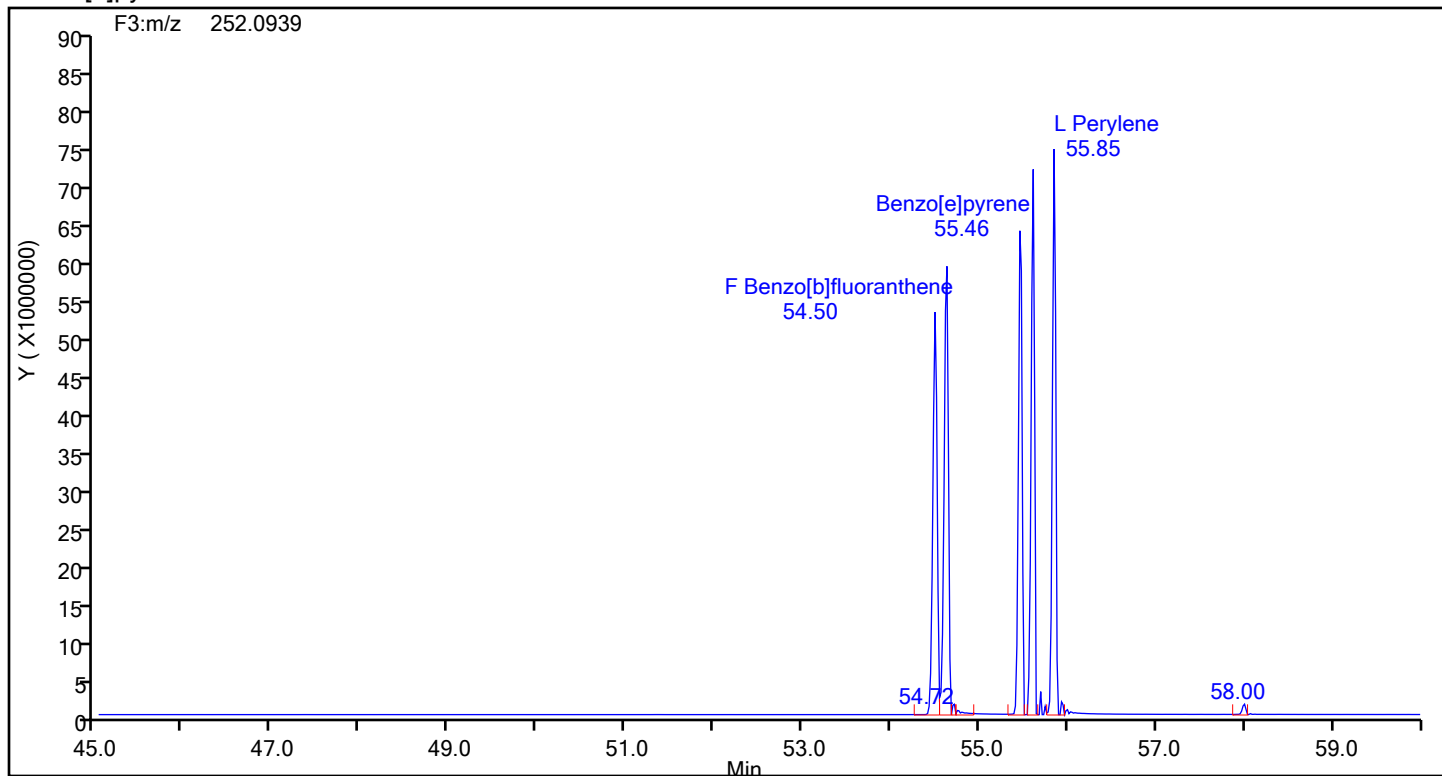
13C12-Benzo(j)fluoranthene Standards



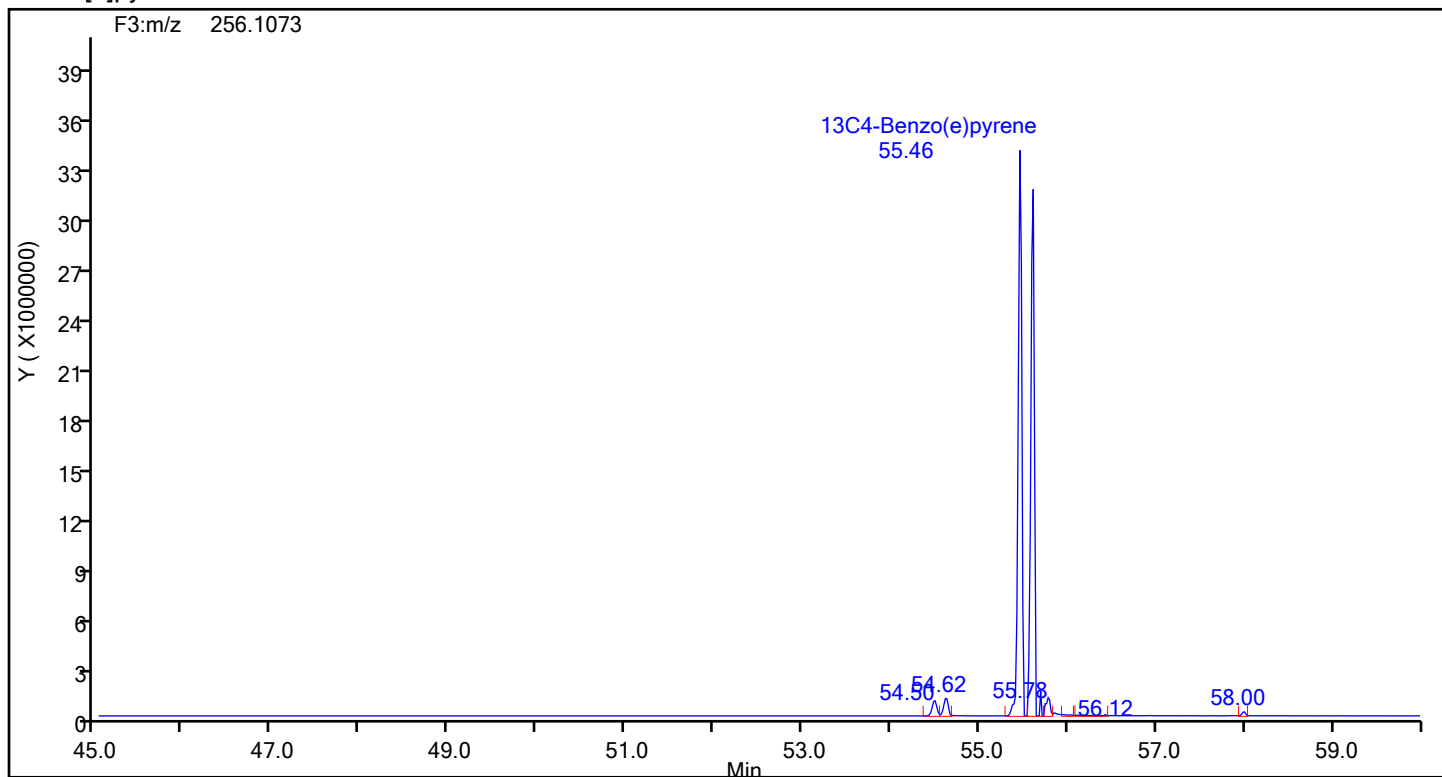
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



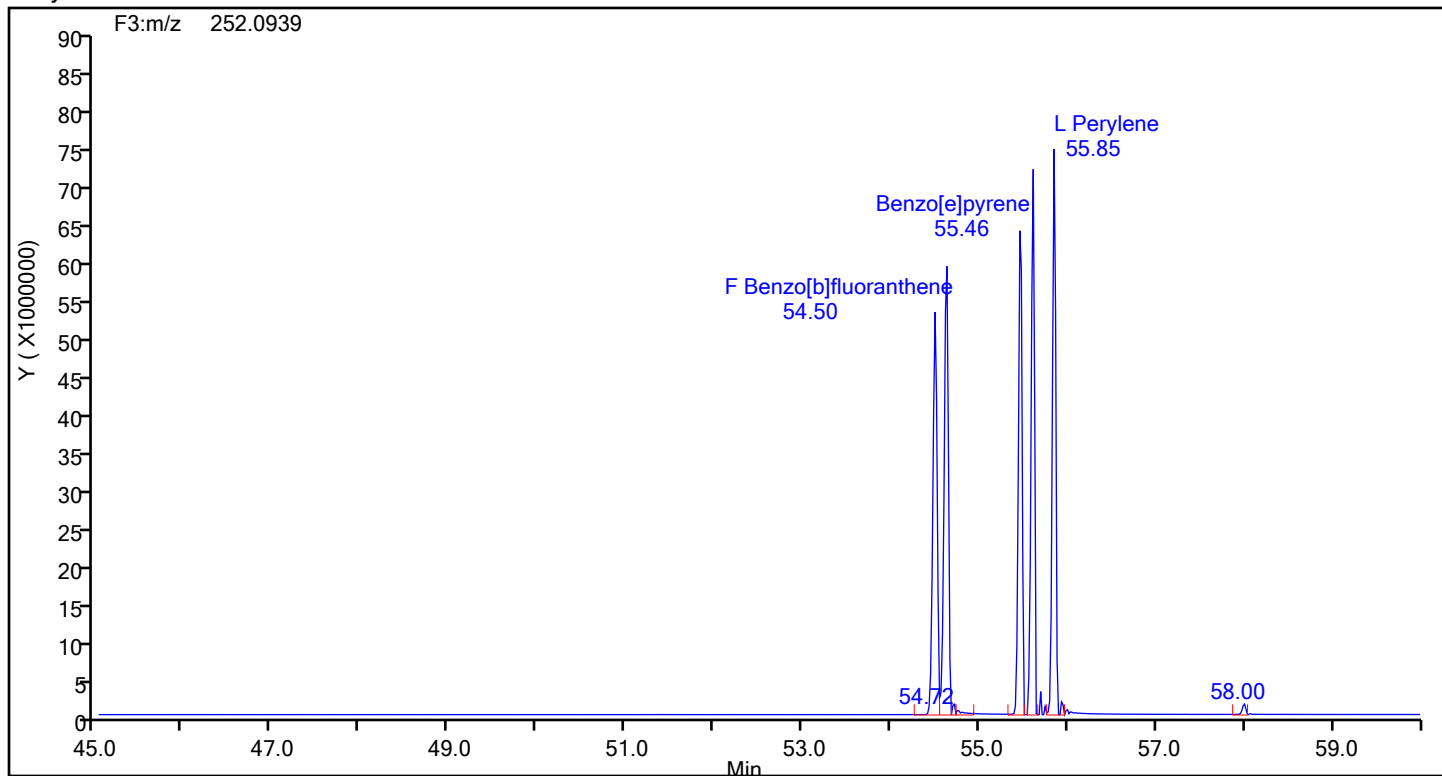
Benzo[e]pyrene Standards



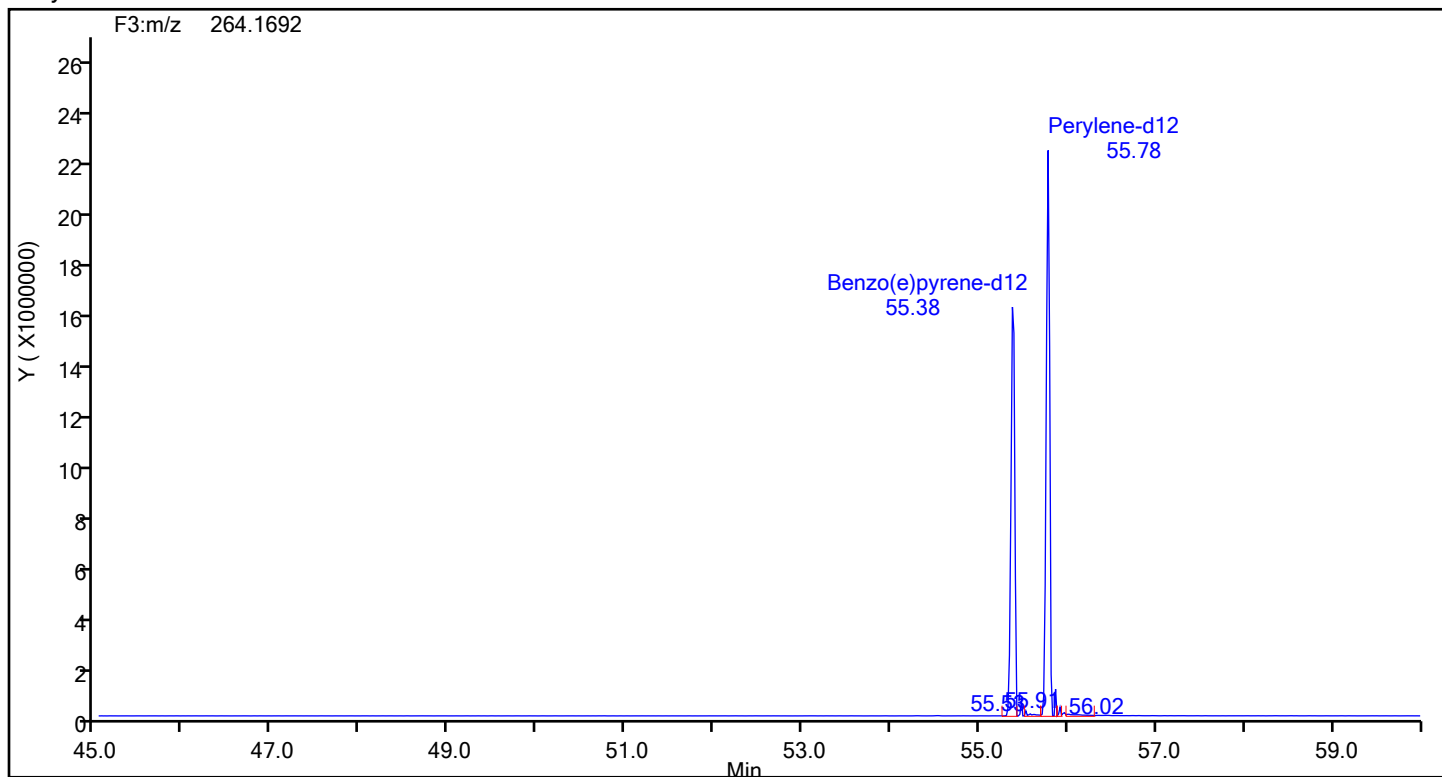
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Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



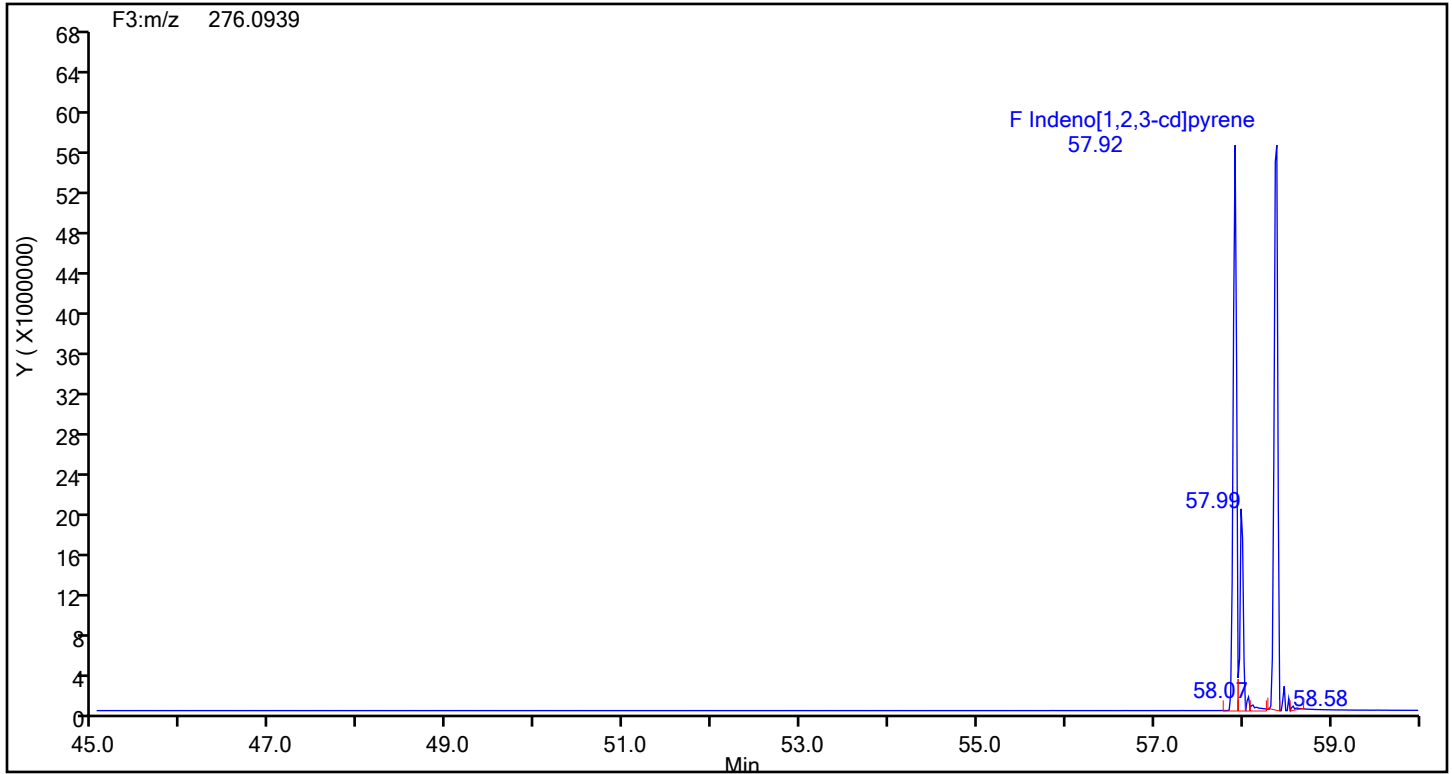
Perylene Standards



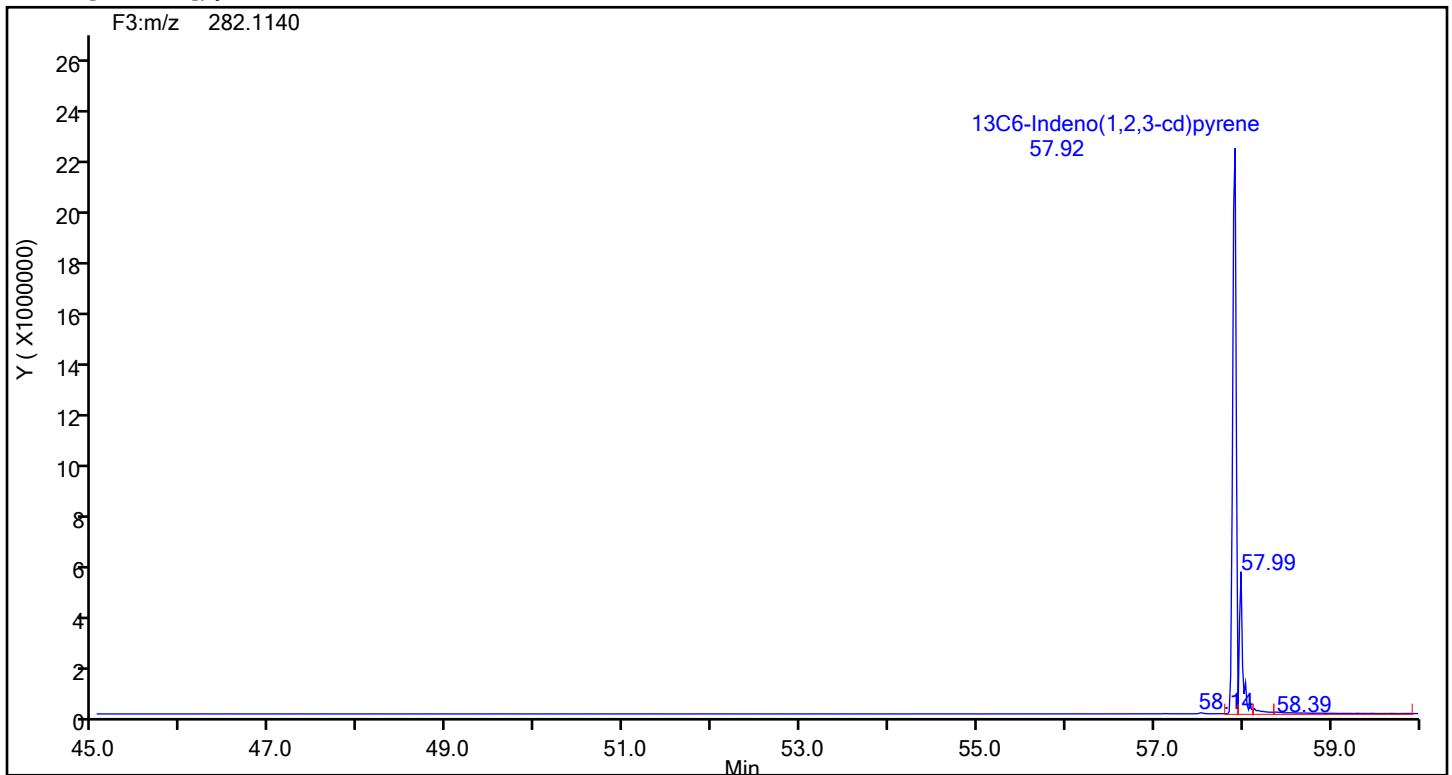
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



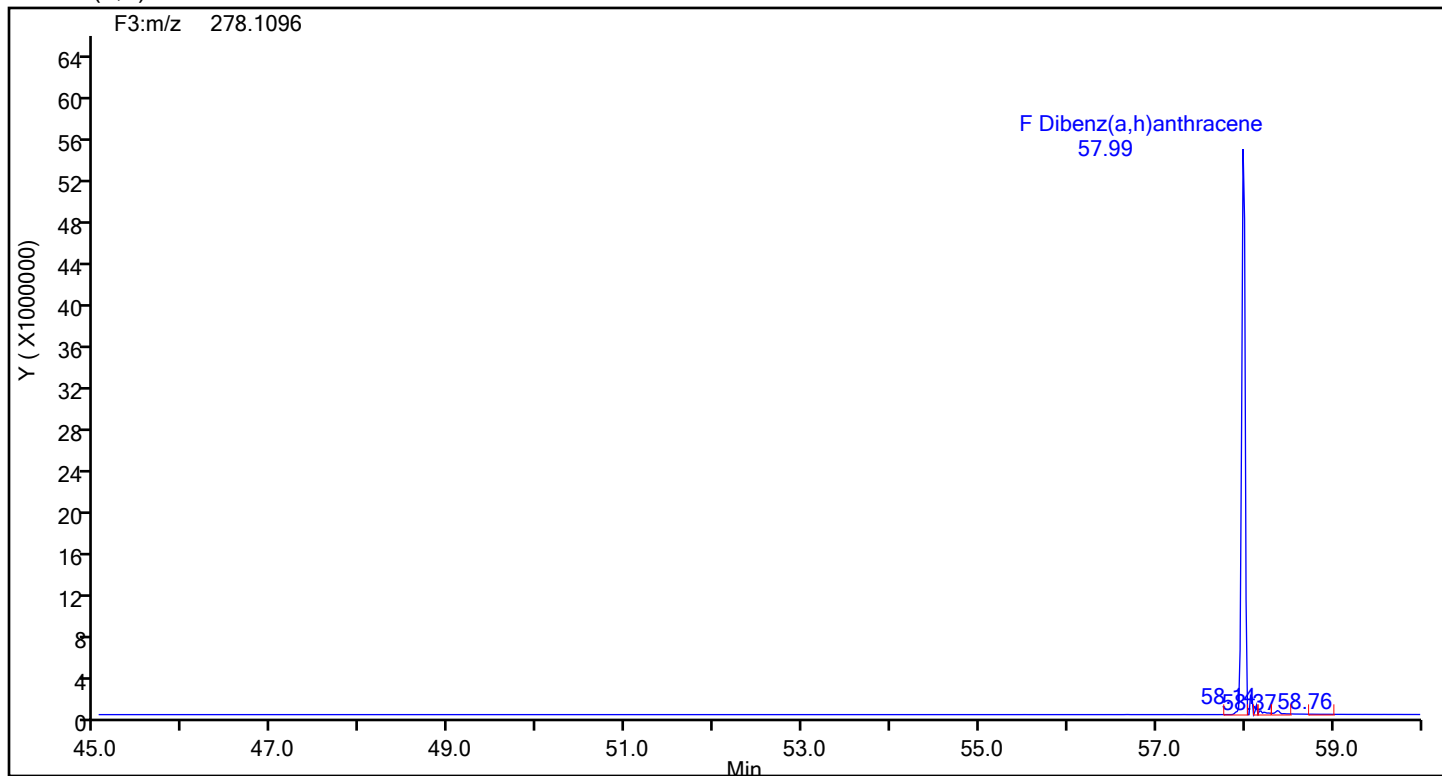
Indeno[1,2,3-cd]pyrene Standards



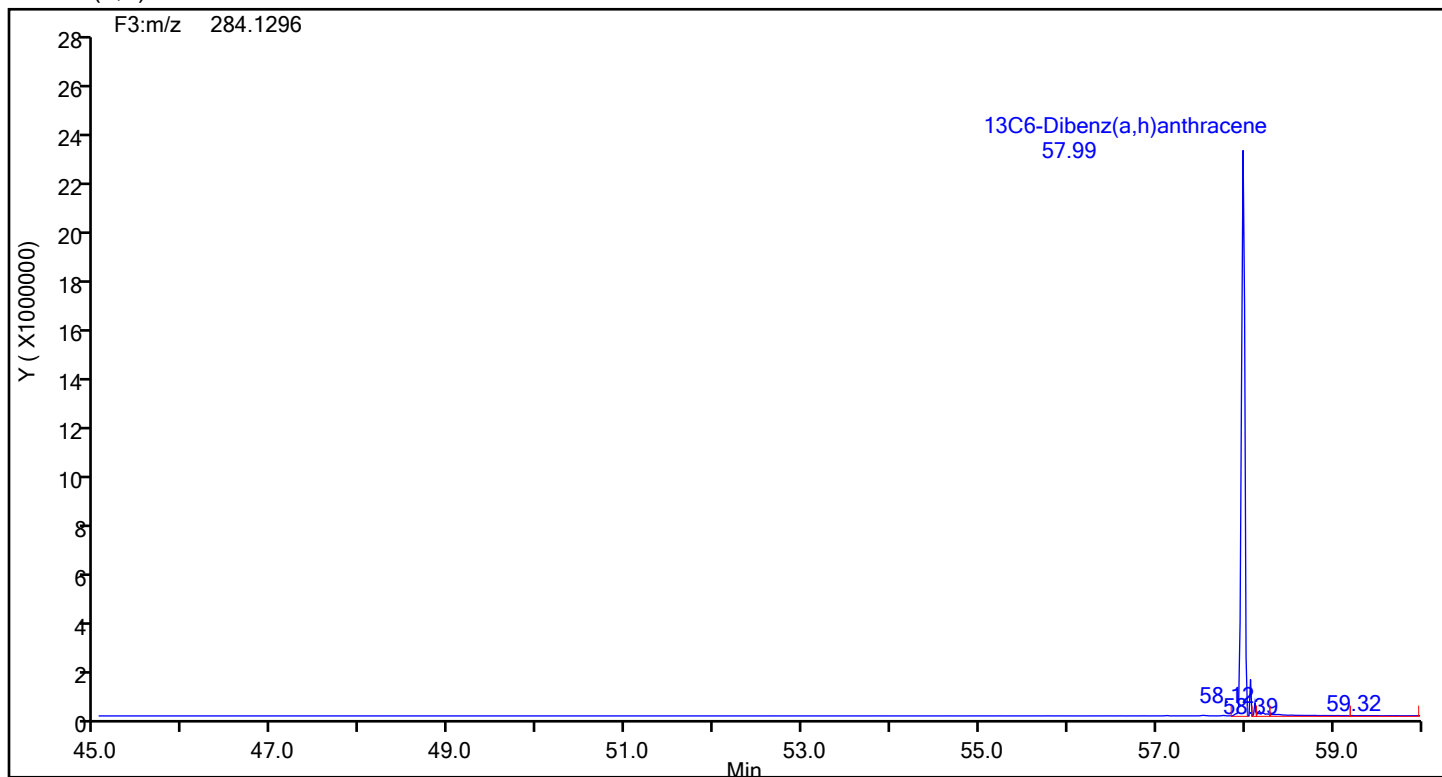
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



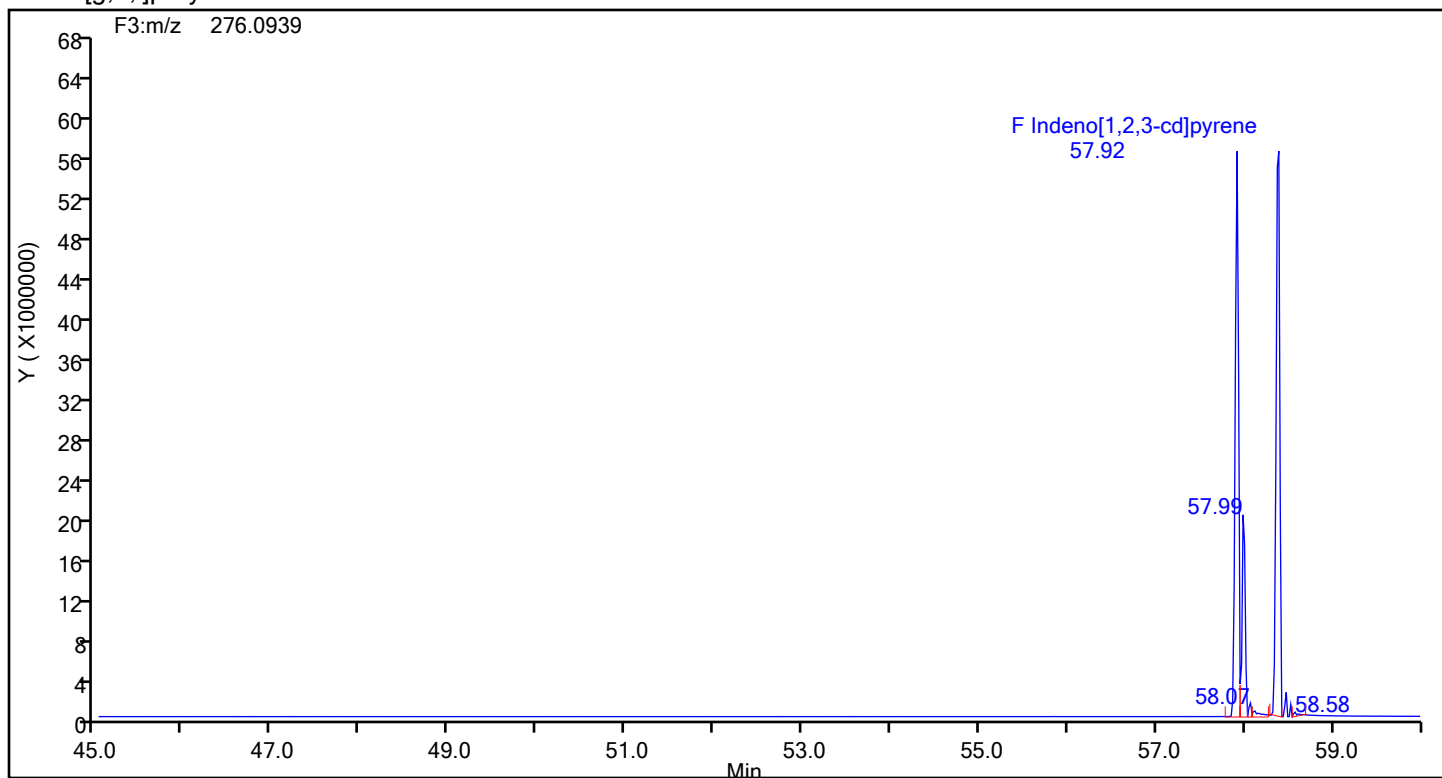
Dibenz(a,h)anthracene Standards



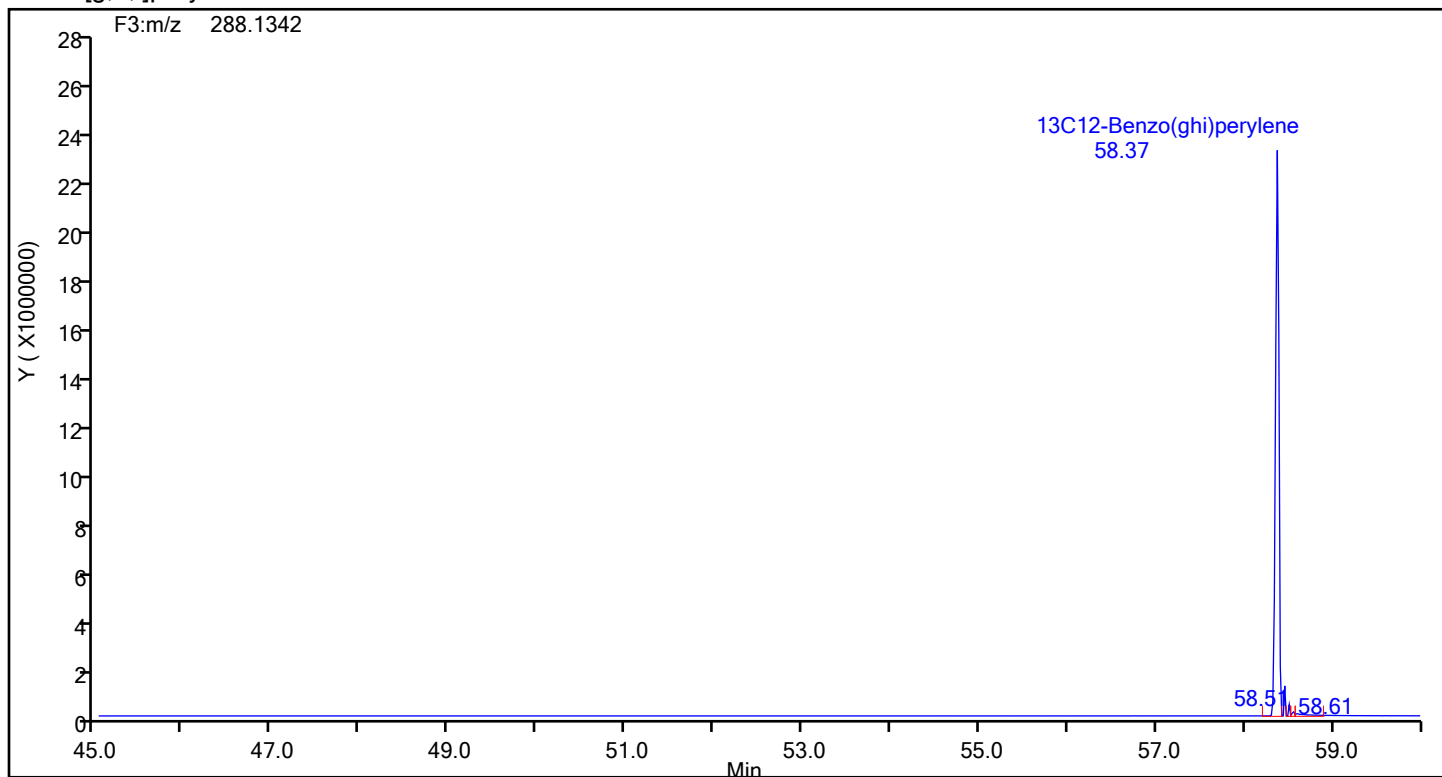
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: CCV 140-88945/1 Calibration Date: 07/18/2024 21:47

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240718c2a_20240718214503.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.201		186	200	-6.9	25.0
2-Methylnaphthalene	AveID	1.279	1.258		197	200	-1.6	25.0
Acenaphthylene	AveID	2.366	2.187		185	200	-7.6	25.0
Acenaphthene	AveID	1.270	1.211		191	200	-4.6	25.0
Fluorene	AveID	1.253	1.260		201	200	0.5	25.0
Phenanthrene	AveID	1.104	1.131		205	200	2.4	25.0
Anthracene	AveID	1.359	1.401		206	200	3.1	25.0
Fluoranthene	AveID	1.151	1.155		201	200	0.3	25.0
Pyrene	AveID	1.065	1.061		199	200	-0.4	25.0
Benzo[a]anthracene	AveID	0.9739	1.054		217	200	8.3	25.0
Chrysene	AveID	0.9815	1.070		218	200	9.0	25.0
Benzo[b]fluoranthene	AveID	1.125	1.121		199	200	-0.3	25.0
Benzo[k]fluoranthene	AveID	1.127	1.090		193	200	-3.3	25.0
Benzo[e]pyrene	AveID	1.001	0.9876		197	200	-1.4	25.0
Benzo[a]pyrene	AveID	1.113	1.065		191	200	-4.3	25.0
Perylene	AveID	1.431	1.563		219	200	9.2	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.170		208	200	4.0	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.190		210	200	5.2	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.275		199	200	-0.6	25.0
13C6-Naphthalene	Ave	3.375	2.880		85.3	100	-14.7	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.400		87.3	100	-12.7	30.0
13C6-Acenaphthylene	Ave	1.652	1.650		99.9	100	-0.1	30.0
13C6-Acenaphthene	Ave	0.9792	1.017		104	100	3.9	30.0
13C6-Fluorene	Ave	0.8898	0.998		112	100	12.1	30.0
13C6-Phenanthrene	Ave	0.5724	0.5299		92.6	100	-7.4	30.0
13C6-Anthracene	Ave	0.4523	0.4107		90.8	100	-9.2	30.0
13C6-Fluoranthrene	Ave	1.199	1.294		108	100	7.9	30.0
13C3-Pyrene	Ave	1.351	1.471		109	100	8.9	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.205		79.3	100	-20.7	30.0
13C6-Chrysene	Ave	1.629	1.307		80.3	100	-19.8	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.419		97.0	100	-3.0	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.639		93.6	100	-6.4	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.814		111	100	10.8	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.615		104	100	4.1	30.0
Perylene-d12	Ave	1.192	1.200		101	100	0.7	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.208		118	100	18.2	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.190		113	100	12.7	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.224		96.0	100	-4.0	30.0

Resolution Check Report (DFS SN: 3439)

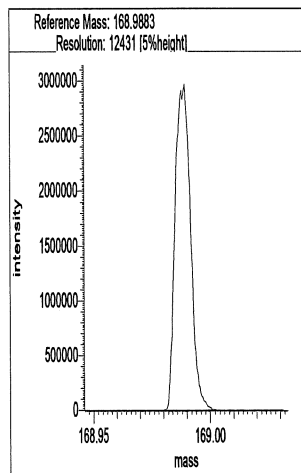
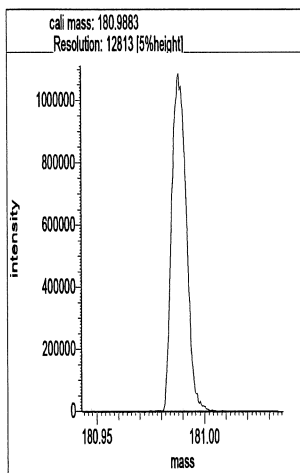
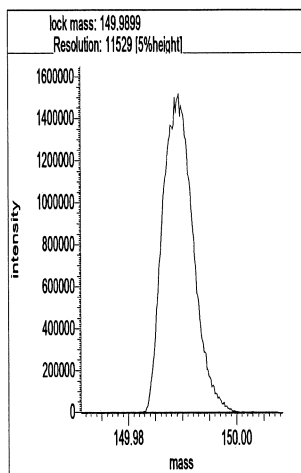
Date: 18 Jul 2024 21:24
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

Segment 1

Lock mass 149.9899 [m/z] Resolution: 11529 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 12813 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 12431 [5%height]



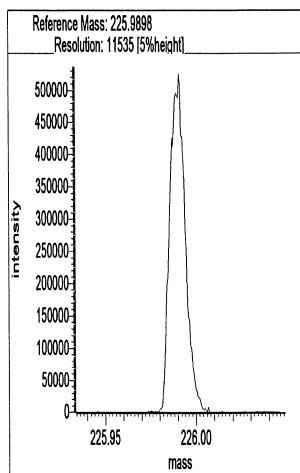
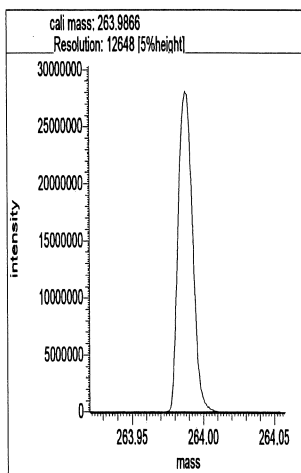
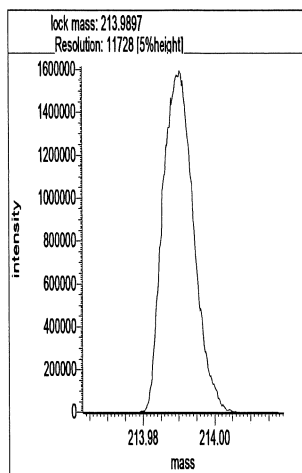
Segment 2

Lock mass 213.9897 [m/z] Resolution: 11728 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12648 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11535 [5%height]

03240718r3

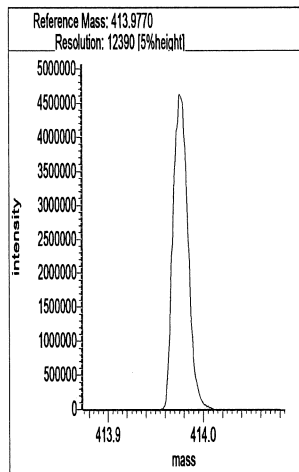
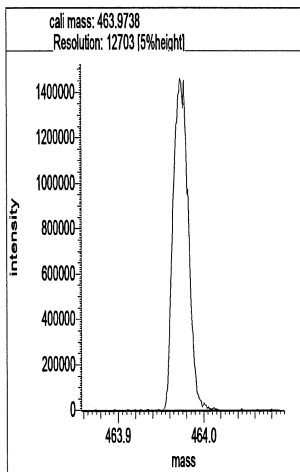
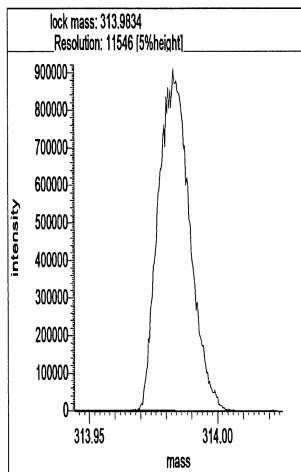


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11546 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12703 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12390 [5%height]



Reports

21:30:57: Peak matching procedure started
21:30:57:
21:30:58: Reference mass: 263.98656
21:30:58: Sample mass: 414.0
21:30:59:
21:30:59: Finding reference mass
21:31:00: Finding sample mass
21:31:01:
21:31:06: [1] 413.9755 amu, mean: 413.9755 SD: 0.16 mmu or: 0.38 ppm
21:31:09: [2] 413.9753 amu, mean: 413.9754 SD: 0.16 mmu or: 0.38 ppm
21:31:12: [3] 413.9752 amu, mean: 413.9754 SD: 0.13 mmu or: 0.32 ppm
21:31:16: [4] 413.9753 amu, mean: 413.9754 SD: 0.11 mmu or: 0.27 ppm
21:31:19: [5] 413.9754 amu, mean: 413.9754 SD: 0.27 mmu or: 0.64 ppm
21:31:22: [6] 413.9760 amu, mean: 413.9755 SD: 0.26 mmu or: 0.64 ppm
21:31:25: [7] 413.9757 amu, mean: 413.9755 SD: 0.30 mmu or: 0.73 ppm
21:31:29: [8] 413.9760 amu, mean: 413.9756 SD: 0.33 mmu or: 0.80 ppm
21:31:31: [9] 413.9761 amu, mean: 413.9756 SD: 0.33 mmu or: 0.79 ppm
21:31:35: [10] 413.9759 amu, mean: 413.9756 SD: 0.31 mmu or: 0.76 ppm
21:31:38: [11] 413.9755 amu, mean: 413.9756
21:31:39:
21:31:39: Stop requested. Please wait for procedure to finish.
21:31:39:
21:31:41:
21:31:41: Peakmatching stopped

Signature

mdp 7/18/24

Resolution Check Report (DFS SN: 3439)

Date: 19 Jul 2024 09:06
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

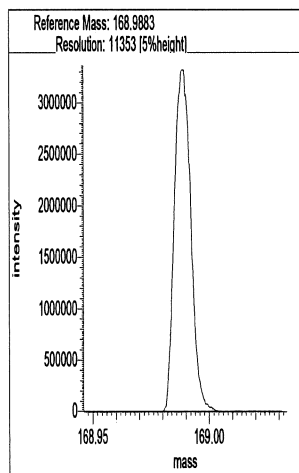
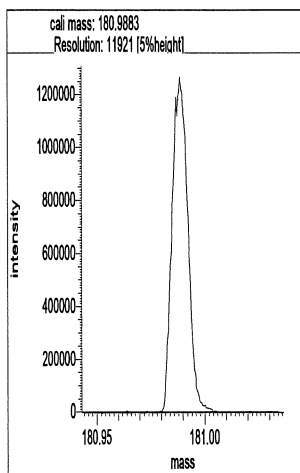
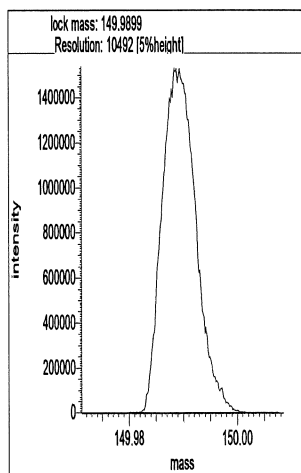
- d3240719r1

Segment 1

Lock mass 149.9899 [m/z] Resolution: 10492 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11921 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11353 [5%height]

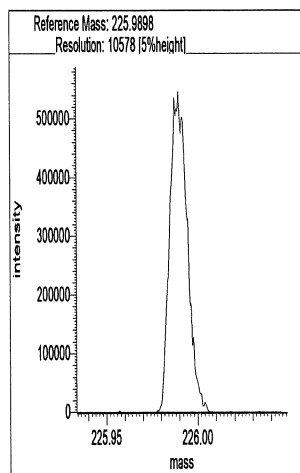
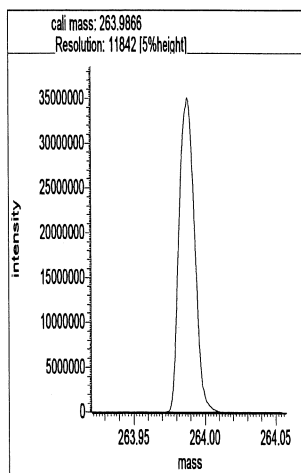
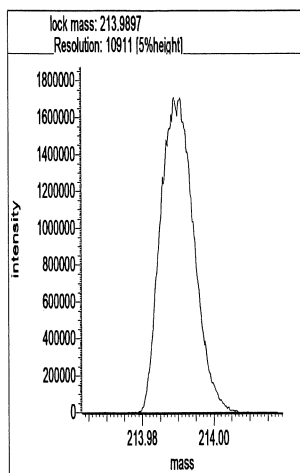


Segment 2

Lock mass 213.9897 [m/z] Resolution: 10911 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11842 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 10578 [5%height]

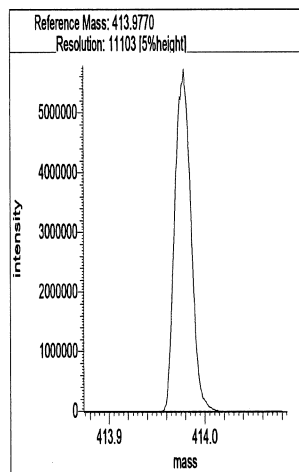
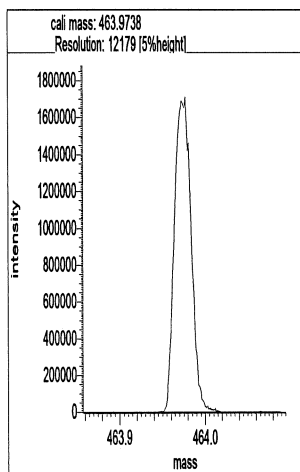
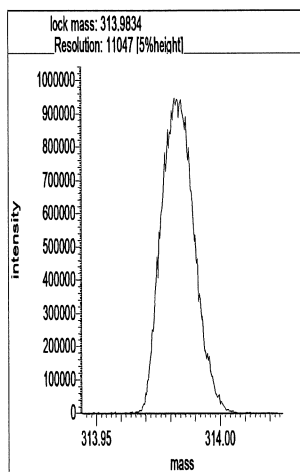


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11047 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12179 [5%height]

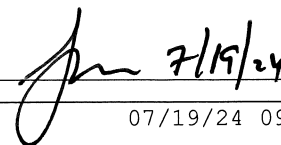
Ref. mass 413.9770 [m/z] Resolution: 11103 [5%height]



Reports

09:16:35: Peak matching procedure started
09:16:35:
09:16:36: Reference mass: 263.98656
09:16:36: Sample mass: 414.0
09:16:37:
09:16:37: Finding reference mass
09:16:38: Finding sample mass
09:16:39:
09:16:44: [1] 413.9744 amu, mean: 413.9744 SD: 0.04 mmu or: 0.09 ppm
09:16:47: [2] 413.9745 amu, mean: 413.9744 SD: 0.29 mmu or: 0.70 ppm
09:16:51: [3] 413.9750 amu, mean: 413.9746 SD: 0.34 mmu or: 0.83 ppm
09:16:54: [4] 413.9751 amu, mean: 413.9747 SD: 0.39 mmu or: 0.94 ppm
09:16:57: [5] 413.9753 amu, mean: 413.9749 SD: 0.39 mmu or: 0.93 ppm
09:17:00: [6] 413.9753 amu, mean: 413.9749 SD: 0.41 mmu or: 0.99 ppm
09:17:03: [7] 413.9755 amu, mean: 413.9750 SD: 0.38 mmu or: 0.92 ppm
09:17:06: [8] 413.9750 amu, mean: 413.9750 SD: 0.36 mmu or: 0.86 ppm
09:17:10: [9] 413.9750 amu, mean: 413.9750 SD: 0.38 mmu or: 0.93 ppm
09:17:13: [10] 413.9744 amu, mean: 413.9749 SD: 0.42 mmu or: 1.01 ppm
09:17:16: [11] 413.9743 amu, mean: 413.9749
09:17:16: Stop requested. Please wait for procedure to finish.
09:17:16:
09:17:19:
09:17:19: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "Jm 7/15/24".

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Jul-2024 21:47:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033572-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 18-Jul-2024 23:16:48 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 23:16:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:26	56763043		3.3746	85.3	85.3	0.006547	0.006547	85.34	
Naphthalene	11:26	136318699		1.2893	186.3	186.3	0.0159	0.0159	93.14	
D 13C6-2-Methylnaphthalene	13:48	27589370		1.6031	87.3	87.3	0.000757	0.000757	87.31	
2-Methylnaphthalene	13:48	69418927		1.2786	196.8	196.8	0.006935	0.006935	98.40	
D 13C6-Acenaphthylene	16:38	32530088		1.6520	99.9	99.9	0.001227	0.001227	99.90	
Acenaphthylene	16:39	87710974		2.3661	184.9	184.9	0.009057	0.009057	92.43	
* Acenaphthene-d10	17:13	19711374		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:20	20052106		0.9792	103.9	103.9	0.002990	0.002990	104	
Acenaphthene	17:20	48579133		1.2697	190.8	190.8	0.009533	0.009533	95.40	
D 13C6-Fluorene	19:36	19665005		0.8898	112.1	112.1	0.000754	0.000754	112	
Fluorene	19:36	49548517		1.2532	201.1	201.1	0.009868	0.009868	101	
D 13C6-Phenanthrene	24:57	28447637		0.5724	92.6	92.6	0.003946	0.003946	92.57	
Phenanthrene	24:57	64355337		1.1044	204.8	204.8	0.0127	0.0127	102	
\$ Anthracin-d10	25:10	20303055		0.4257	88.8	88.8	0.000902	0.000902	88.83	
D 13C6-Anthracene	25:17	22050868		0.4523	90.8	90.8	0.004994	0.004994	90.80	
Anthracene	25:17	61769229		1.3586	206.2	206.2	0.0136	0.0136	103	
D 13C6-Fluoranthrene	33:40	69479503		1.1994	107.9	107.9	0.0108	0.0108	108	
Fluoranthrene	33:41	160480234		1.1513	200.6	200.6	0.006419	0.006419	100	
* Pyrene-d10	35:13	53686741		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:21	78969067		1.3512	108.9	108.9	0.009035	0.009035	109	
Pyrene	35:21	167539318		1.0652	199.2	199.2	0.006419	0.006419	99.59	
\$ 13C6-Benzo(c)fluorene	39:03	27242149		0.5136	98.8	98.8	0.003205	0.003205	98.80	
D 13C6-Benzo(a)anthracene	45:52	64213197		1.5189	79.3	79.3	0.005286	0.005286	79.34	
Benzo[a]anthracene	45:52	135413777		0.9739	216.5	216.5	0.0285	0.0285	108	
D 13C6-Chrysene	46:07	69639510		1.6287	80.2	80.2	0.004929	0.004929	80.25	
Chrysene	46:08	149030267		0.9815	218.0	218.0	0.0267	0.0267	109	
D 13C6-Benzo(b)fluoranthene	54:30	75585318		1.4621	97.0	97.0	0.000781	0.000781	97.03	
Benzo[b]fluoranthene	54:31	169501067		1.1249	199.4	199.4	0.002082	0.002082	99.68	
\$ 13C12-Benzo(j)fluoranthene	54:32	64839468		1.3558	89.8	89.8	0.005174	0.005174	89.75	
D 13C6-Benzo(k)fluoranthene	54:38	87331261		1.7507	93.6	93.6	0.000652	0.000652	93.62	
Benzo[k]fluoranthene	54:38	190312160		1.1271	193.3	193.3	0.001750	0.001750	96.67	
* Benzo(e)pyrene-d12	55:23	53281472		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:28	190885699		1.0013	197.3	197.3	0.001480	0.001480	98.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(e)pyrene	55:28	96645426		1.6368	110.8	110.8	0.001126	0.001126	111	
D 13C4-Benzo(a)pyrene	55:36	86029741		1.5508	104.1	104.1	0.001188	0.001188	104	
Benzo[a]pyrene	55:37	183208340		1.1130	191.3	191.3	0.001529	0.001529	95.67	
D Perylene-d12	55:48	63923141		1.1917	100.7	100.7	0.005222	0.005222	101	
Perylene	55:52	199797203		1.4307	218.5	218.5	0.001515	0.001515	109	
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	64350241		1.0218	118.2	118.2	0.004730	0.004730	118	
Indeno[1,2,3-cd]pyrene	57:56	150530551		1.1249	207.9	207.9	0.001568	0.001568	104	
D 13C6-Dibenz(a,h)anthracene	58:00	63386595		1.0553	112.7	112.7	0.002987	0.002987	113	
Dibenz(a,h)anthracene	58:00	150873860		1.1314	210.4	210.4	0.001289	0.001289	105	
D 13C12-Benzo(ghi)perylene	58:23	65234050		1.2749	96.0	96.0	0.000465	0.000465	96.03	
Benzo[g,h,i]perylene	58:24	166406444		1.2838	198.7	198.7	0.001290	0.001290	99.35	

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 18-Jul-2024 21:47:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033572-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 18-Jul-2024 23:16:48 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 23:16:48

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:26	11:26	0	0.664	56763043	19913965	619	1547	32171		
Naphthalene											
128.0626	11:26	11:26	0	1.000	136318699	48775320	1635	4087	29832		
13C6-2-Methylnaphthalene											
148.0984	13:48	13:48	0	0.802	27589370	13443565	34	85	395399		
2-Methylnaphthalene											
142.0783	13:48	13:48	0	1.000	69418927	34958264	477	1192	73288		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	32530088	12093676	57	142	212170		
Acenaphthylene											
152.0626	16:39	16:39	0	1.000	87710974	32825066	614	1535	53461		
Acenaphthene-d10											
164.1404	17:13	17:13	0		19711374	7002480	23	57	304456		
13C6-Acenaphthene											
160.0984	17:20	17:20	0	1.007	20052106	7162882	82	205	87352		E
Acenaphthene											
154.0783	17:20	17:20	0	1.000	48579133	17841997	347	867	51418		
13C6-Fluorene											
172.0984	19:36	19:36	0	1.139	19665005	5919364	19	47	311546		E
Fluorene											
166.0783	19:36	19:36	0	1.000	49548517	15610746	293	732	53279		
13C6-Phenanthrene											
184.0984	24:57	24:57	0	0.709	28447637	6848697	99	247	69179		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	64355337	16131721	383	957	42119		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:10	0	0.715	20303055	4745033	17	42	279120		
13C6-Anthracene											
184.0984	25:17	25:17	0	0.718	22050868	5164698	99	247	52169		
Anthracene											
178.0783	25:17	25:17	0	1.000	61769229	14769545	383	957	38563		
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	69479503	14614058	566	1415	25820		E
Fluoranthene											
202.0783	33:41	33:41	0	1.000	160480234	34453682	432	1080	79754		
Pyrene-d10											
212.1404	35:13	35:13	0		53686741	10935020	42	105	260358		
13C3-Pyrene											
205.0883	35:21	35:21	0	1.004	78969067	15795343	534	1335	29579		E
Pyrene											
202.0783	35:21	35:21	0	1.000	167539318	33768925	432	1080	78169		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	0	0.705	27242149	5189168	72	180	72072		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:52	0	1.303	64213197	11715309	596	1490	19657		
Benzo[a]anthracene											
228.0939	45:52	45:52	0	1.000	135413777	26033499	1301	3252	20010		
13C6-Chrysene											
234.1140	46:07	46:07	0	1.310	69639510	12428781	596	1490	20854		
Chrysene											
228.0939	46:08	46:08	0	1.000	149030267	27759907	1301	3252	21337		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:30	0	0.984	75585318	21438444	85	212	252217		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	0	1.000	169501067	49546709	201	502	246501		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:32	0	0.984	64839468	17535165	521	1302	33657		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	0	0.986	87331261	25446380	85	212	299369		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	190312160	55081941	201	502	274040		
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		53281472	18559190	462	1155	40171		
Benzo[e]pyrene											
252.0939	55:28	55:28	0	1.000	190885699	68695259	201	502	341767		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:28	0	1.002	96645426	33875433	137	342	247266		E
13C4-Benzo(a)pyrene											
256.1073	55:36	55:36	0	1.004	86029741	29506283	137	342	215374		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:37	55:37	0	1.000	183208340	61723904	201	502	307084		
Perylene-d12											
264.1692	55:48	55:48	0	1.007	63923141	23163150	462	1155	50137		E
Perylene											
252.0939	55:52	55:52	0	1.001	199797203	73964032	201	502	367980		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	0	1.046	64350241	22787017	359	897	63474		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	0	1.000	150530551	57386425	161	402	356437		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	0	1.047	63386595	23654823	234	585	101089		E
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	0	1.000	150873860	54622047	138	345	395812		
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	65234050	24266474	44	110	551511		
Benzo[g,h,i]perylene											
276.0939	58:24	58:24	0	1.000	166406444	56476340	161	402	350785		

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

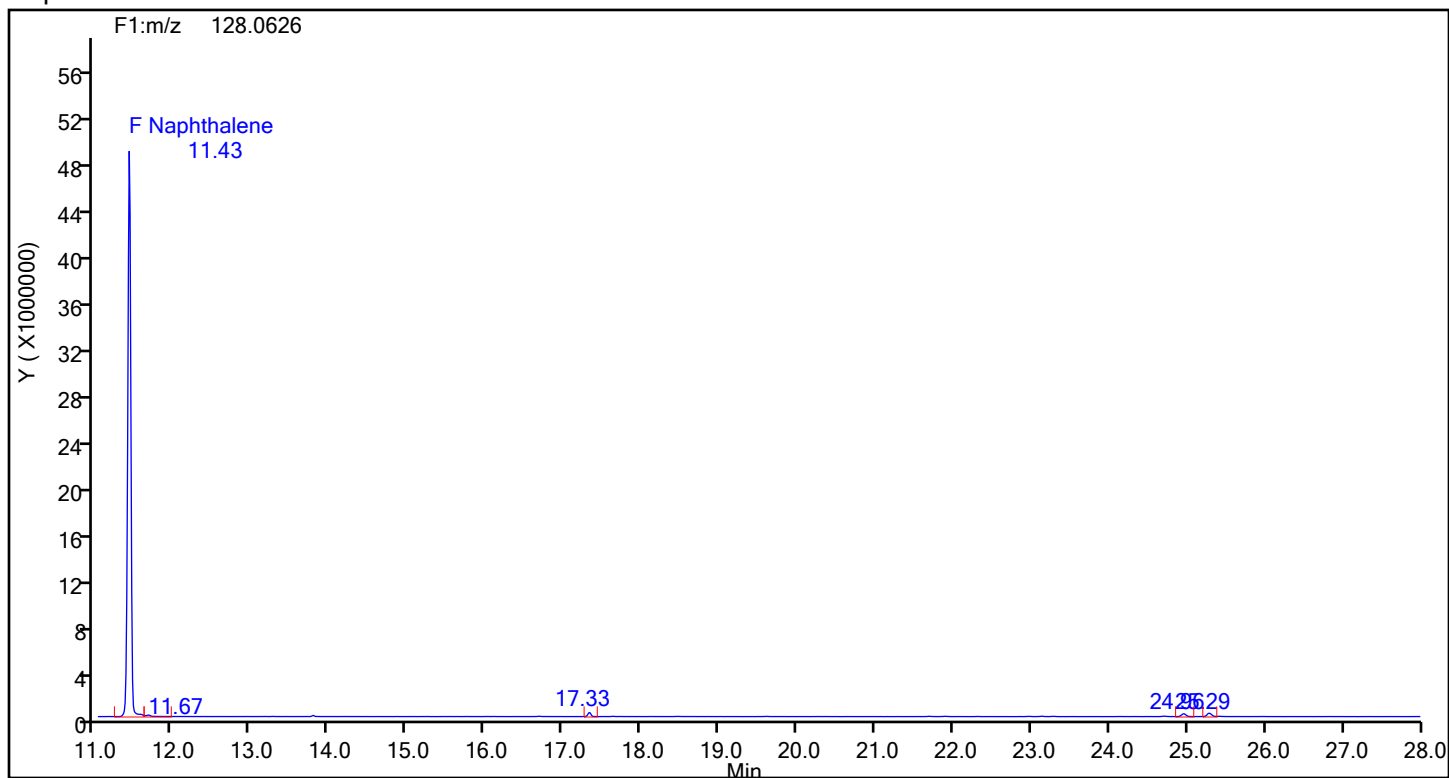
Amount Added: 20.00

Units: uL

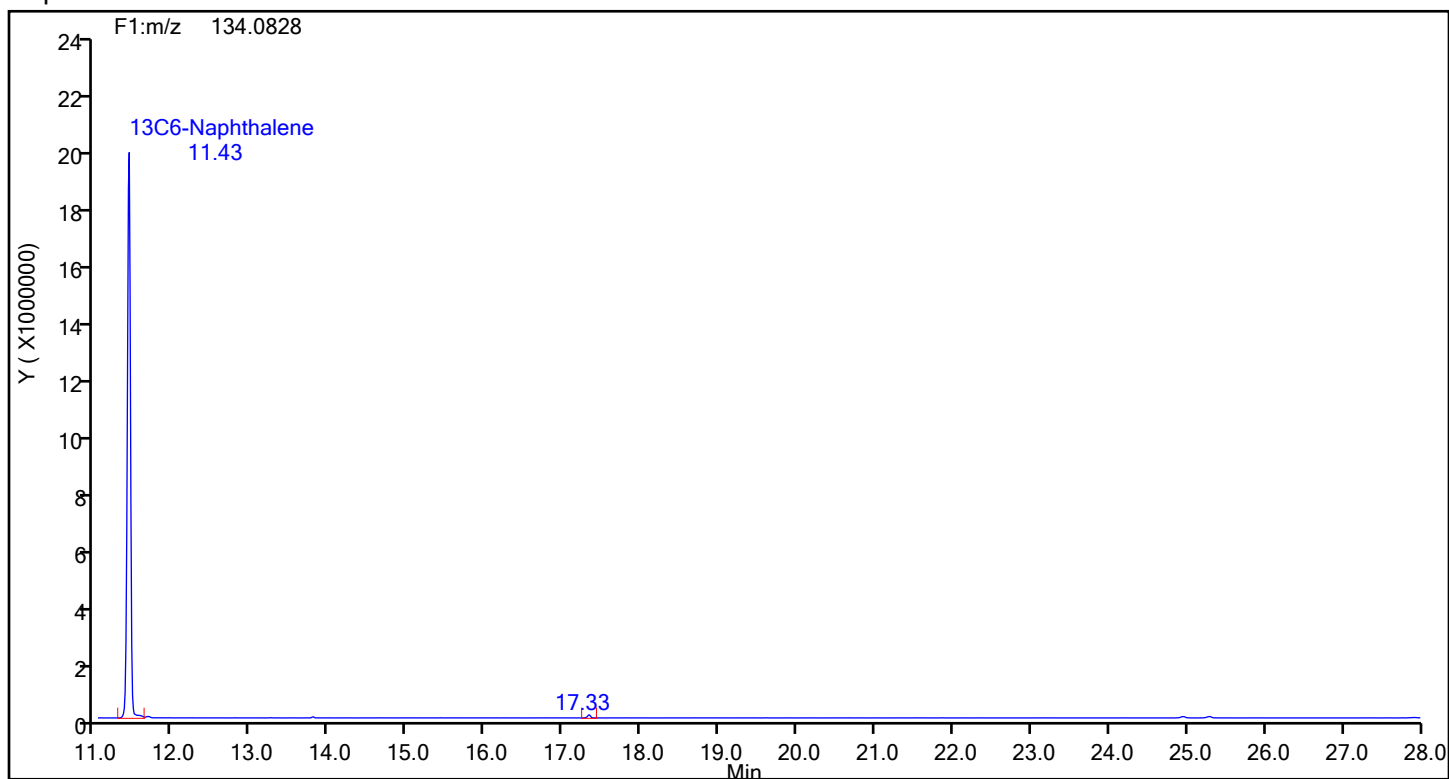
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



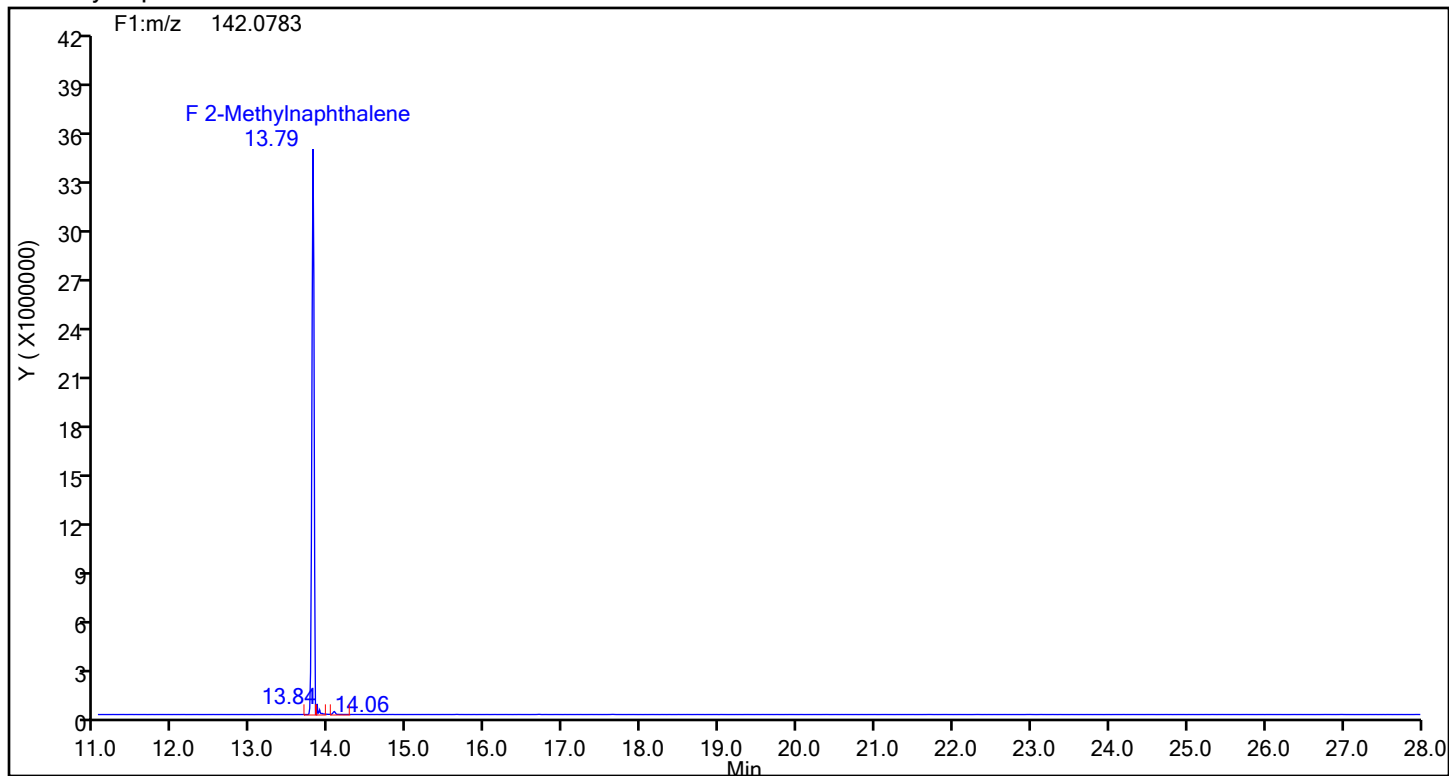
Naphthalene Standards



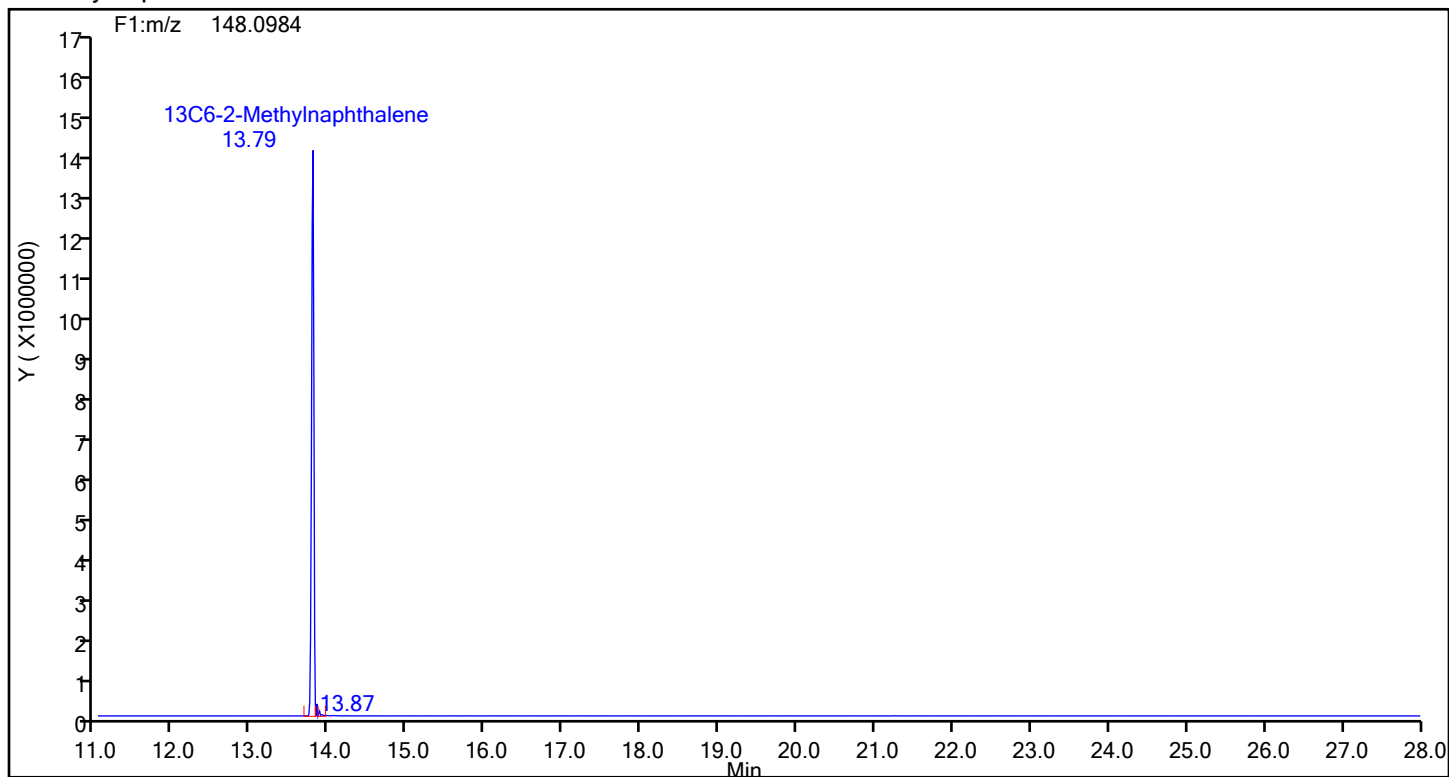
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

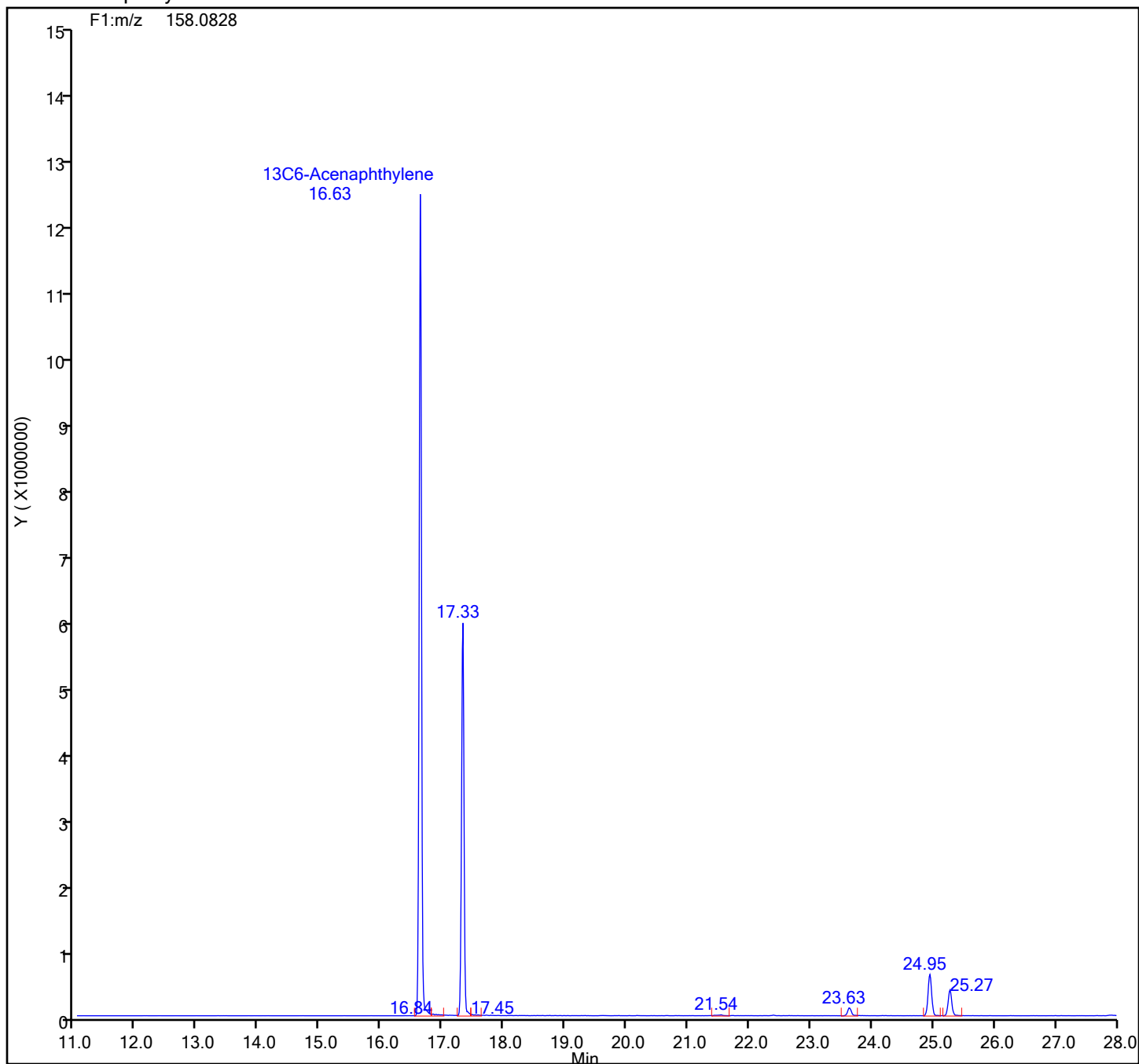
Worklist#: 88945

Sample Line#: 1

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

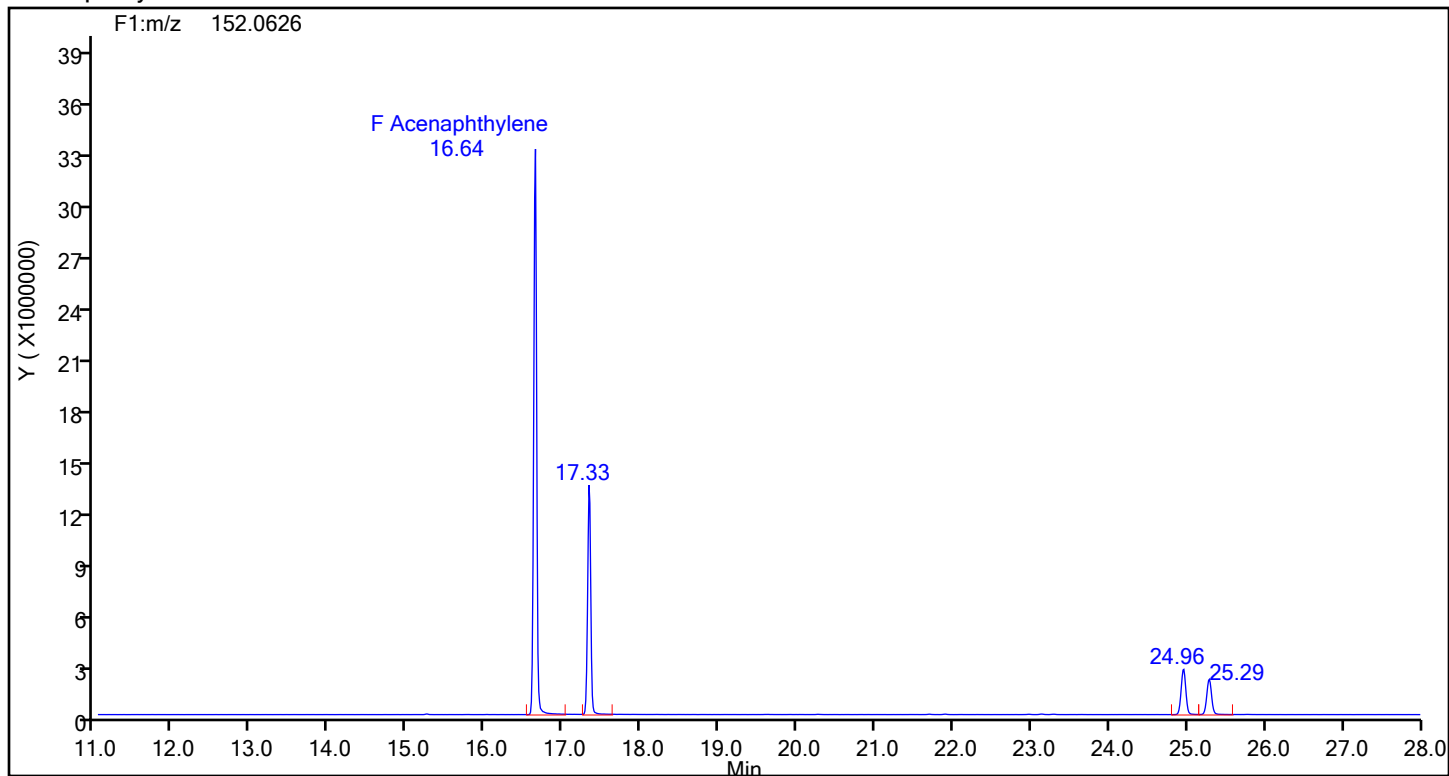
Worklist#: 88945

Sample Line#: 1

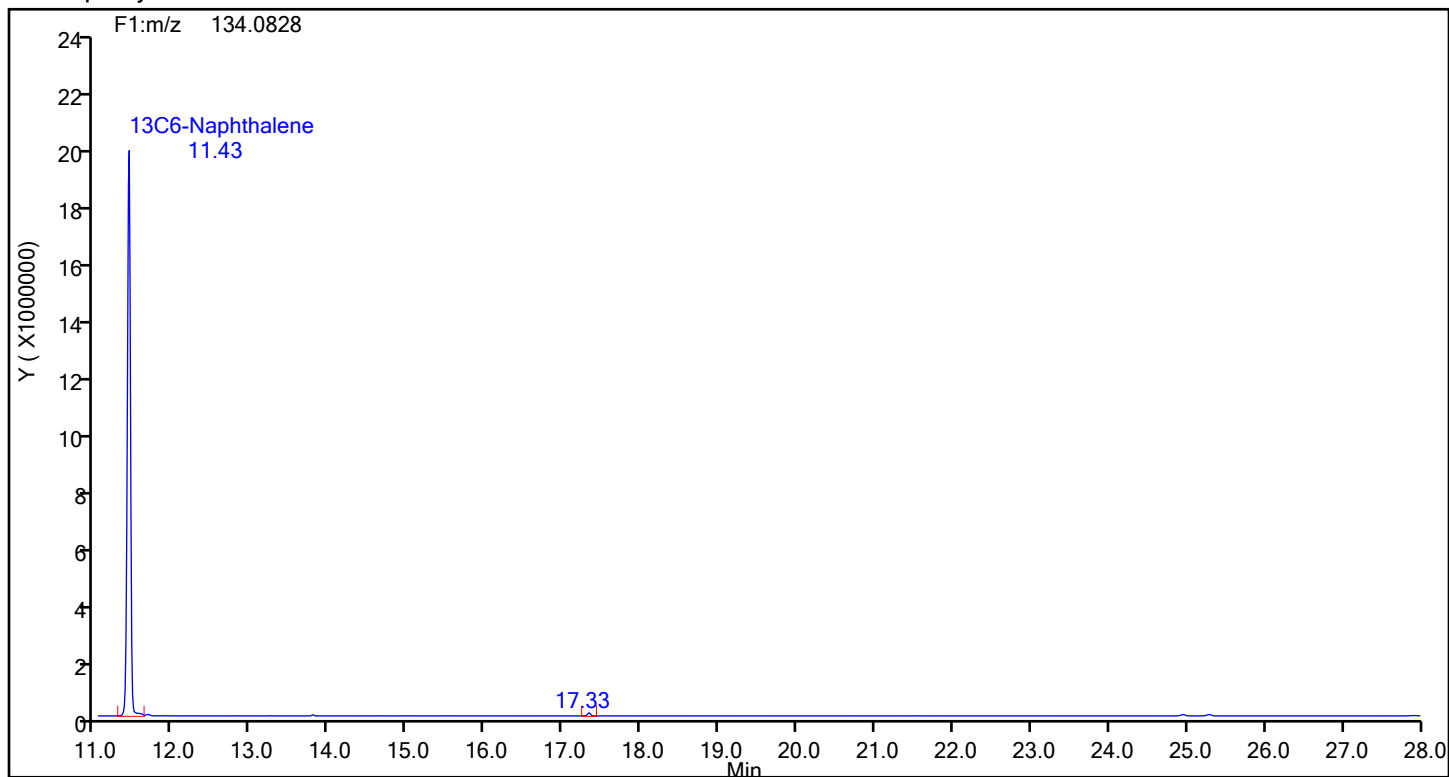
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthylene



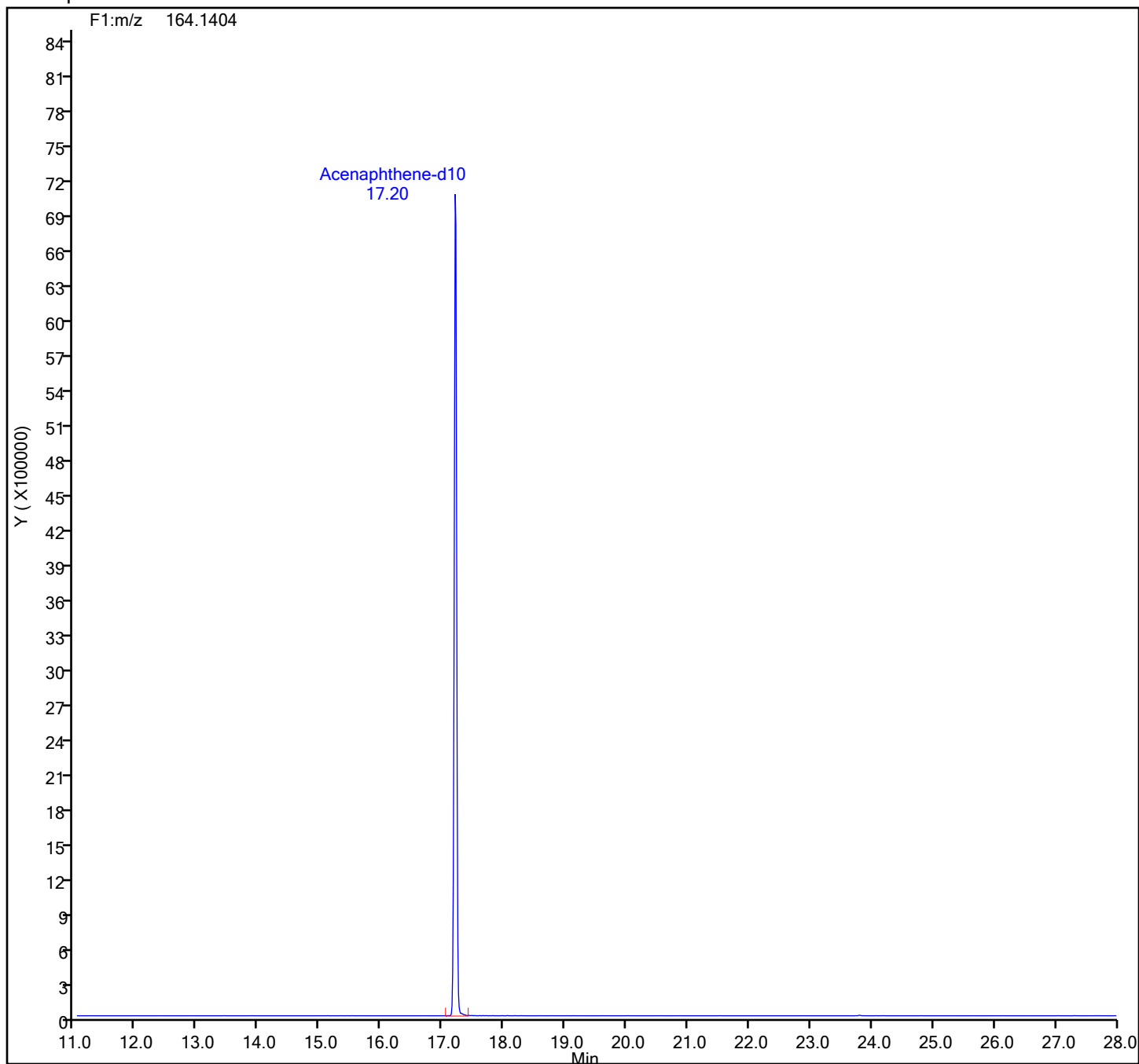
Acenaphthylene Standards



Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

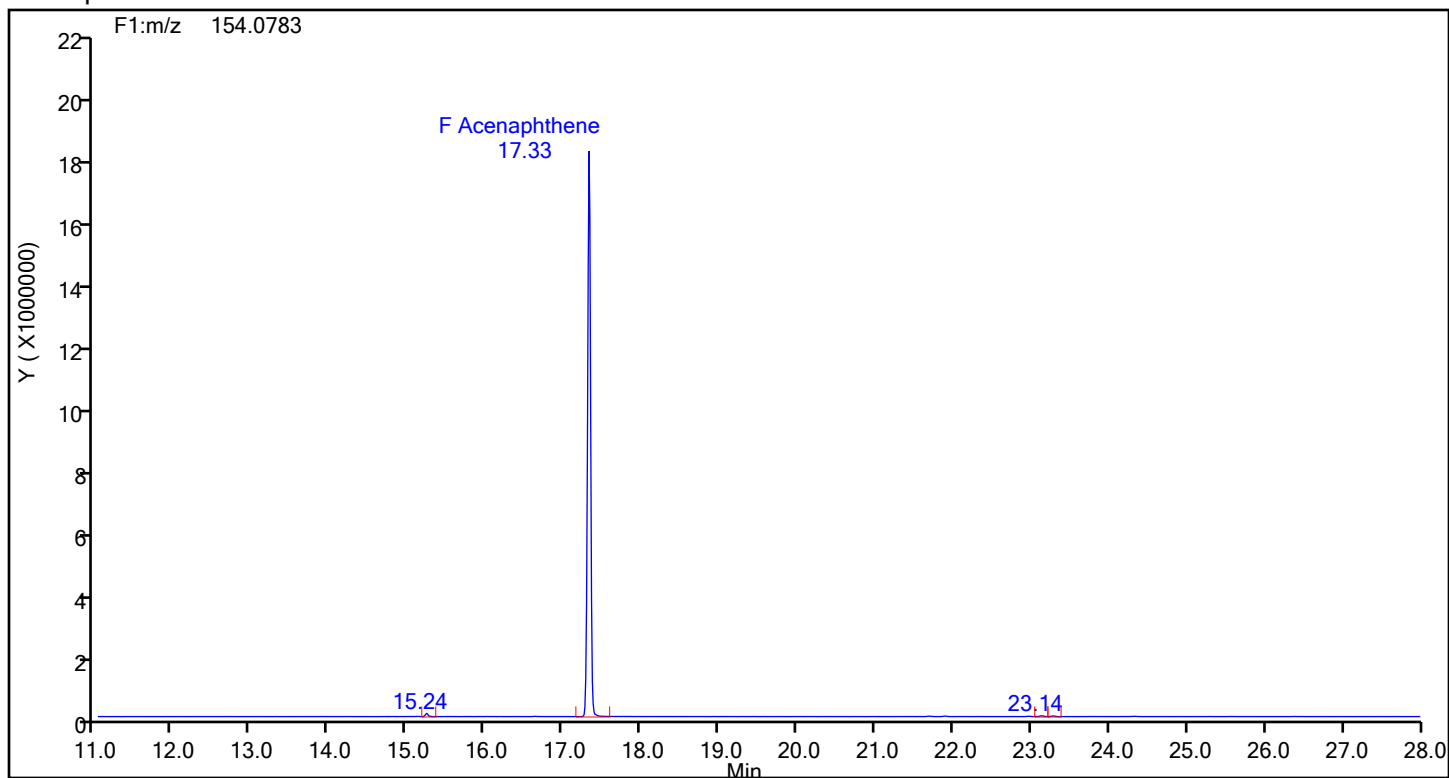
Acenaphthene-d10 Standards



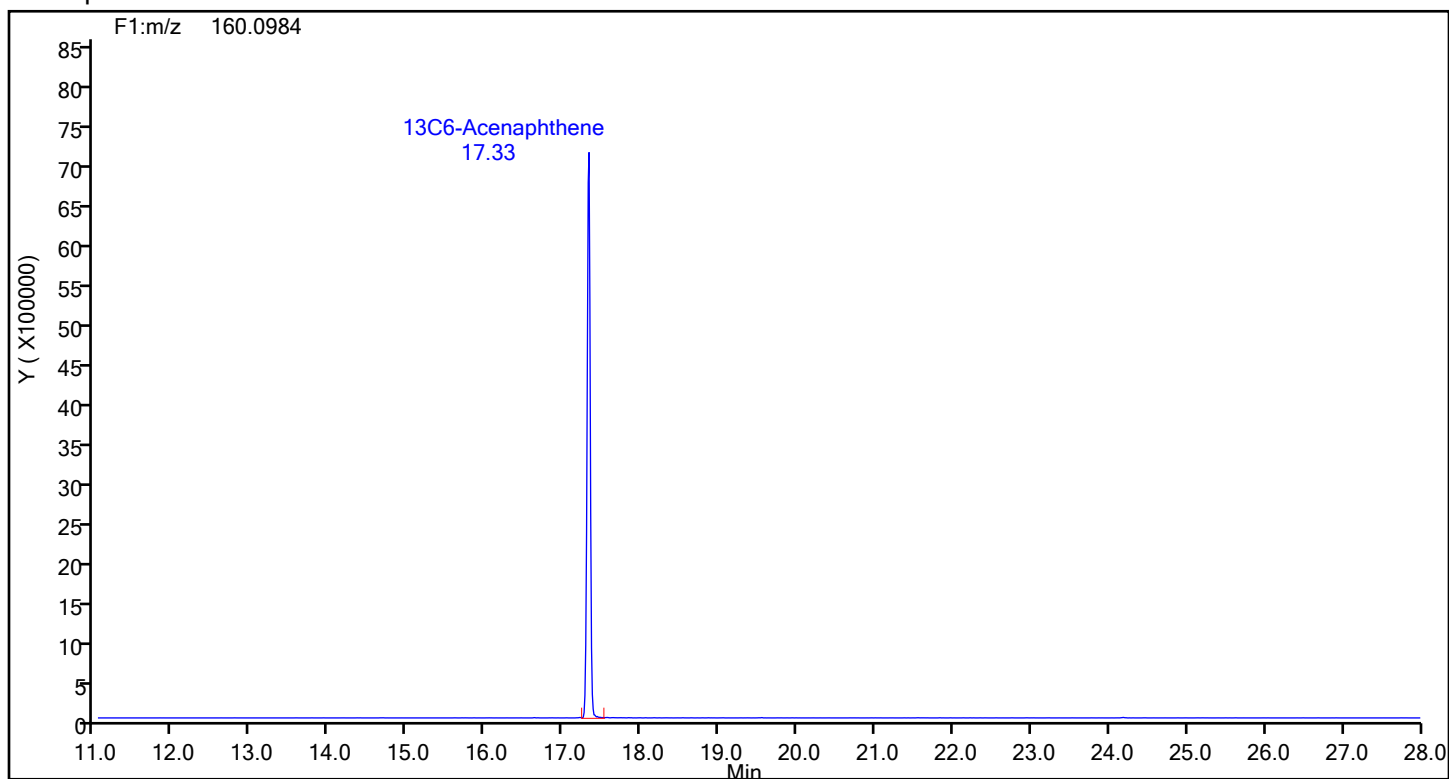
Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

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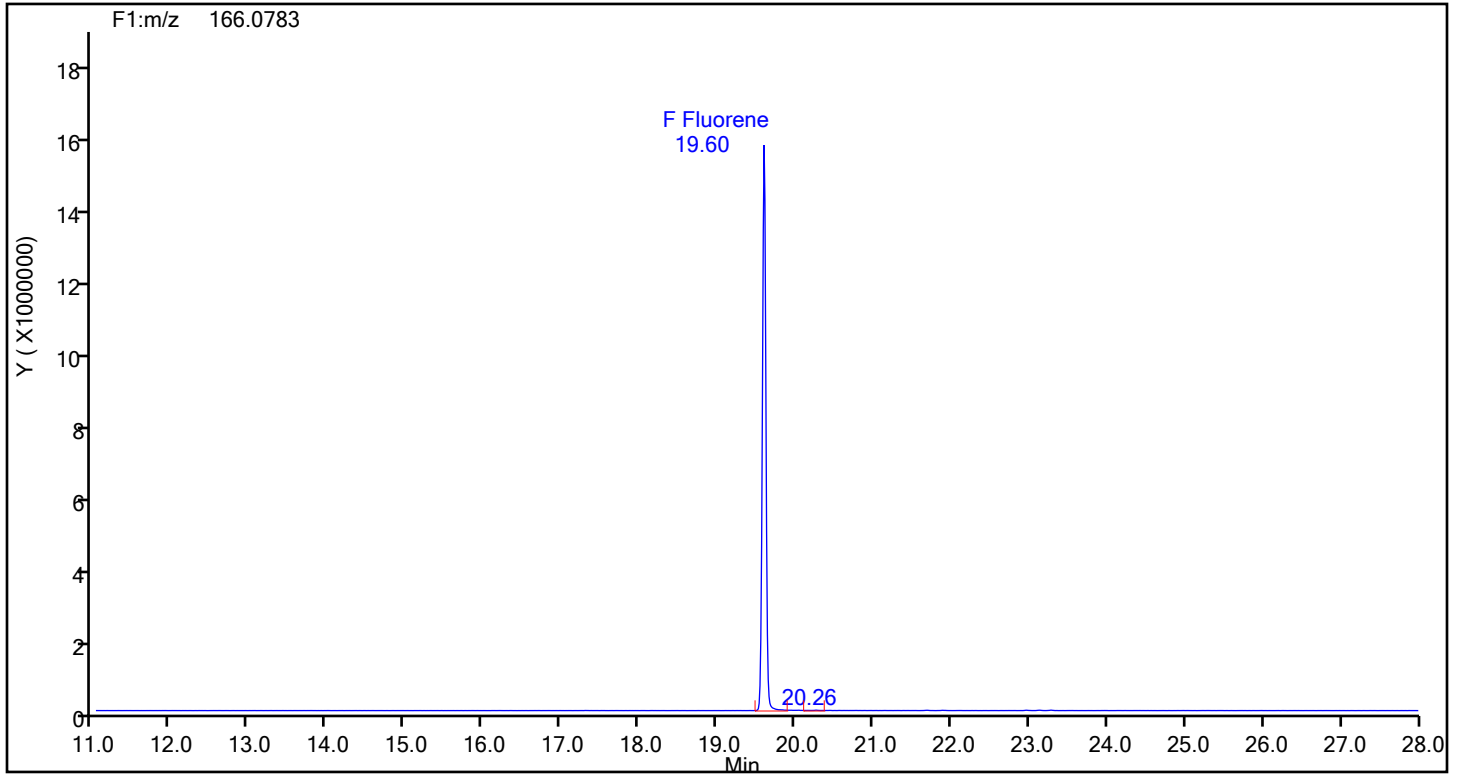
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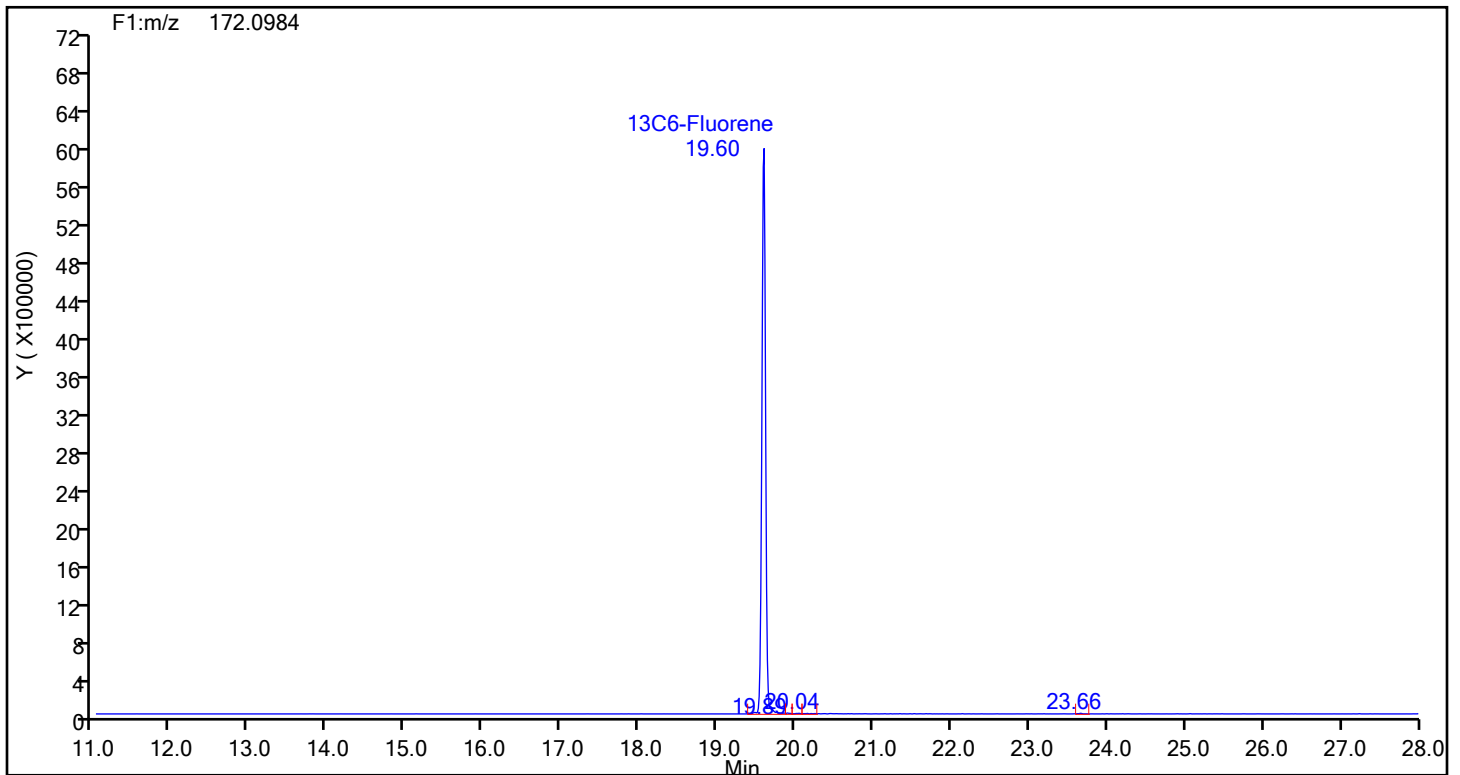
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluorene



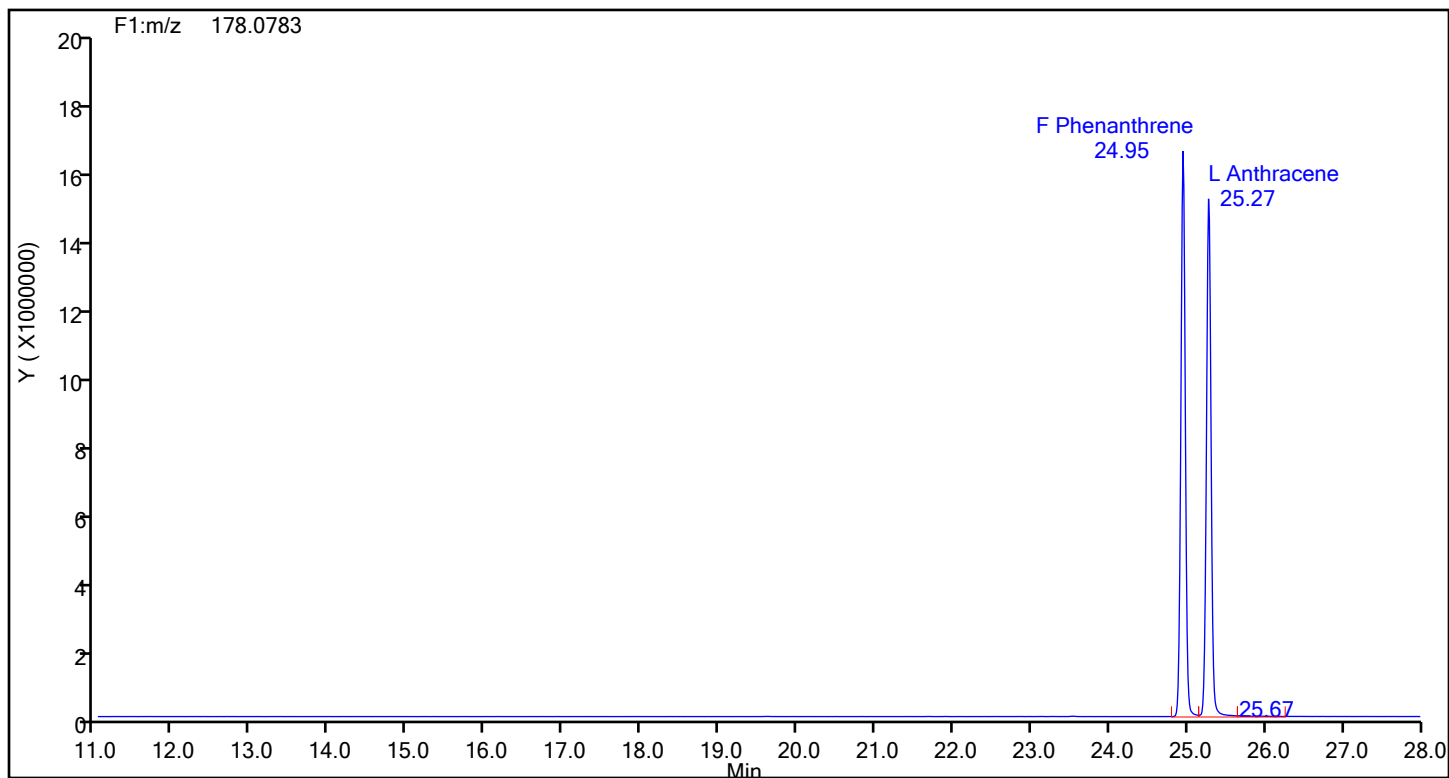
Fluorene Standards



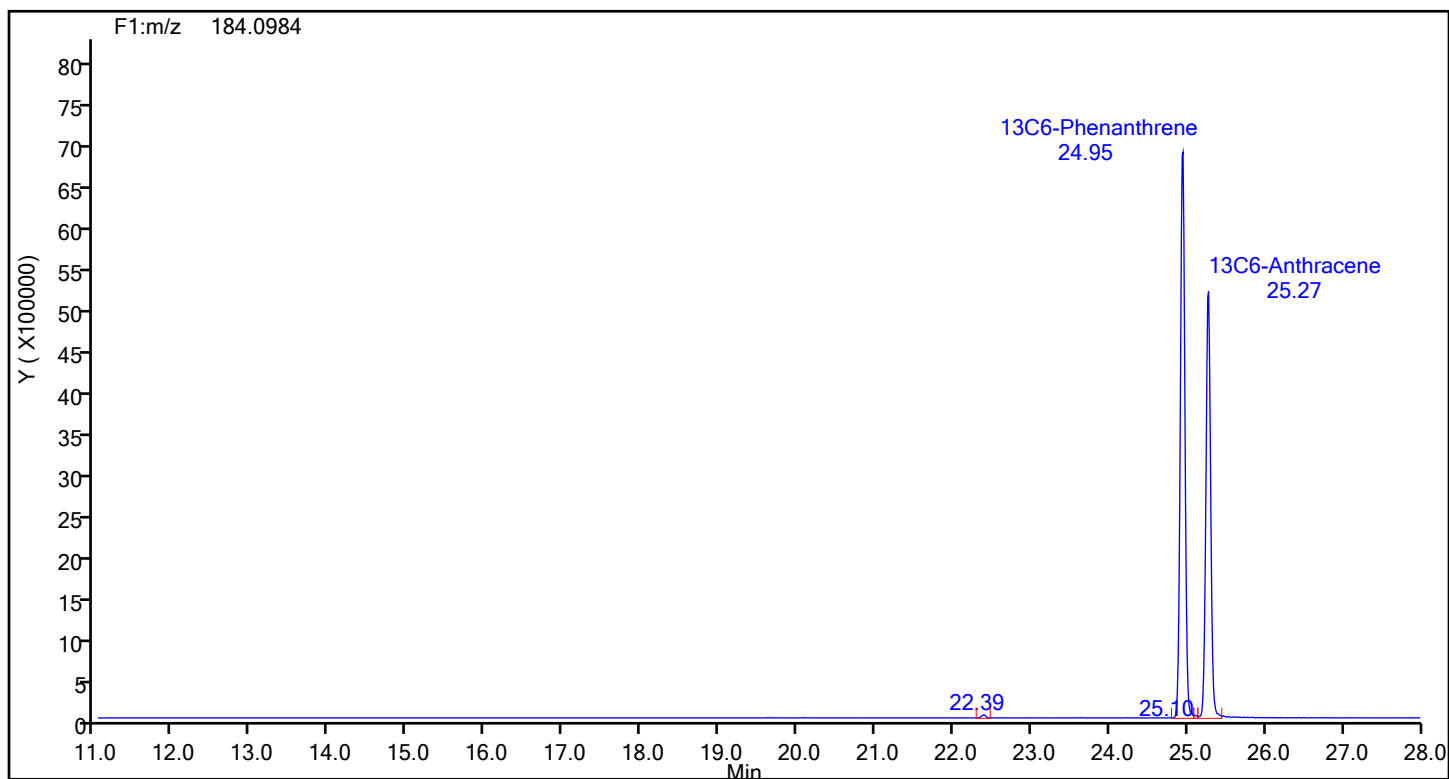
Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

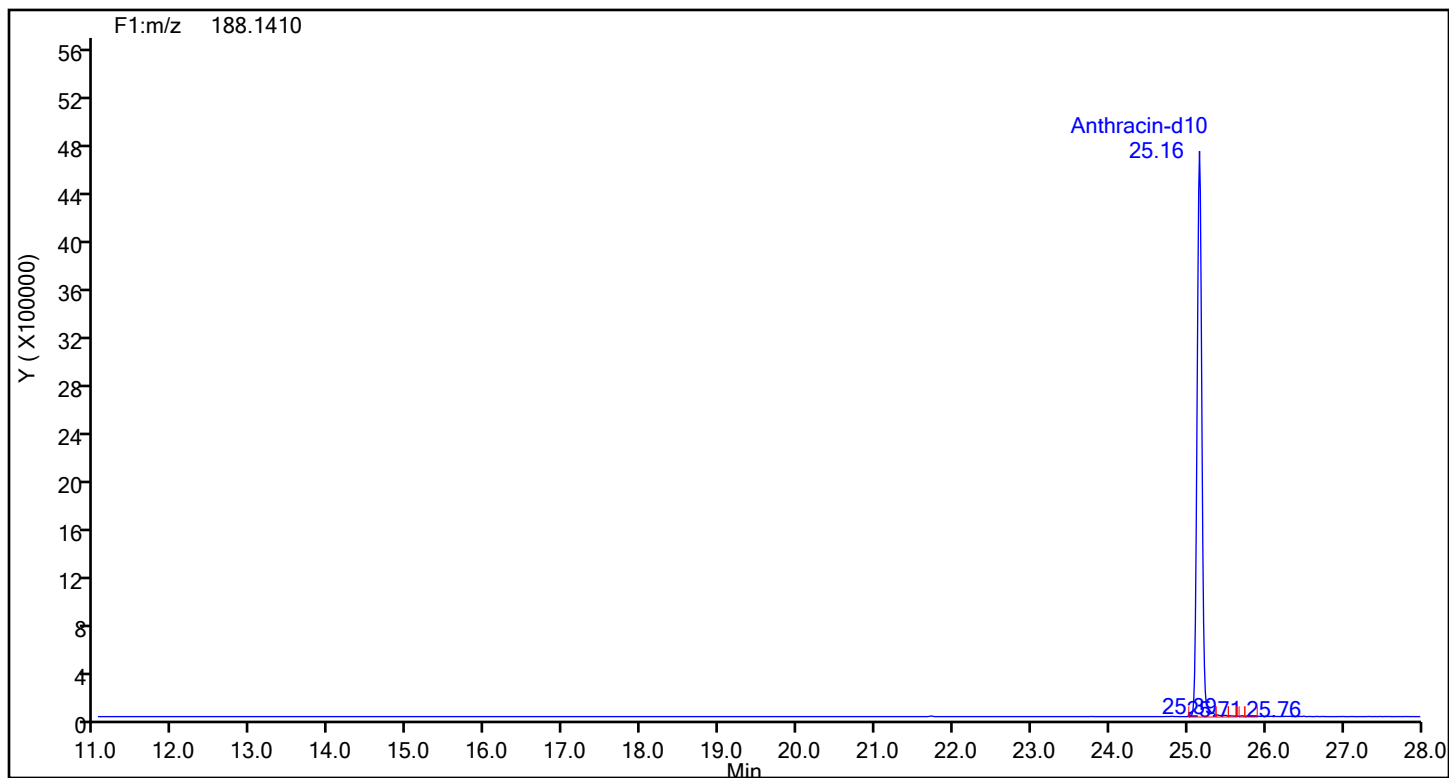


Phenanthrene Standards

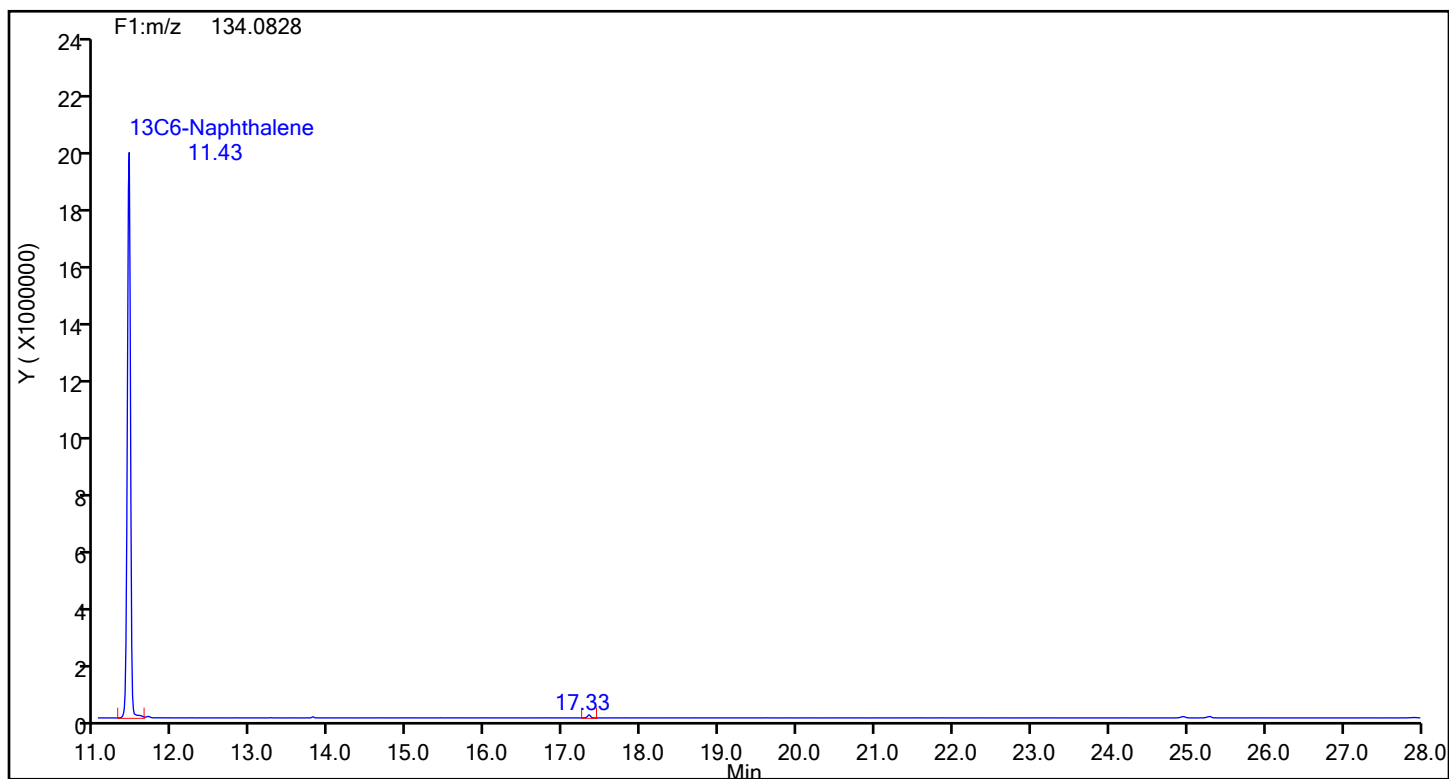


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

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Operator ID: Xcalibur_System

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Limit Group: HR - HRPAAH ICAL

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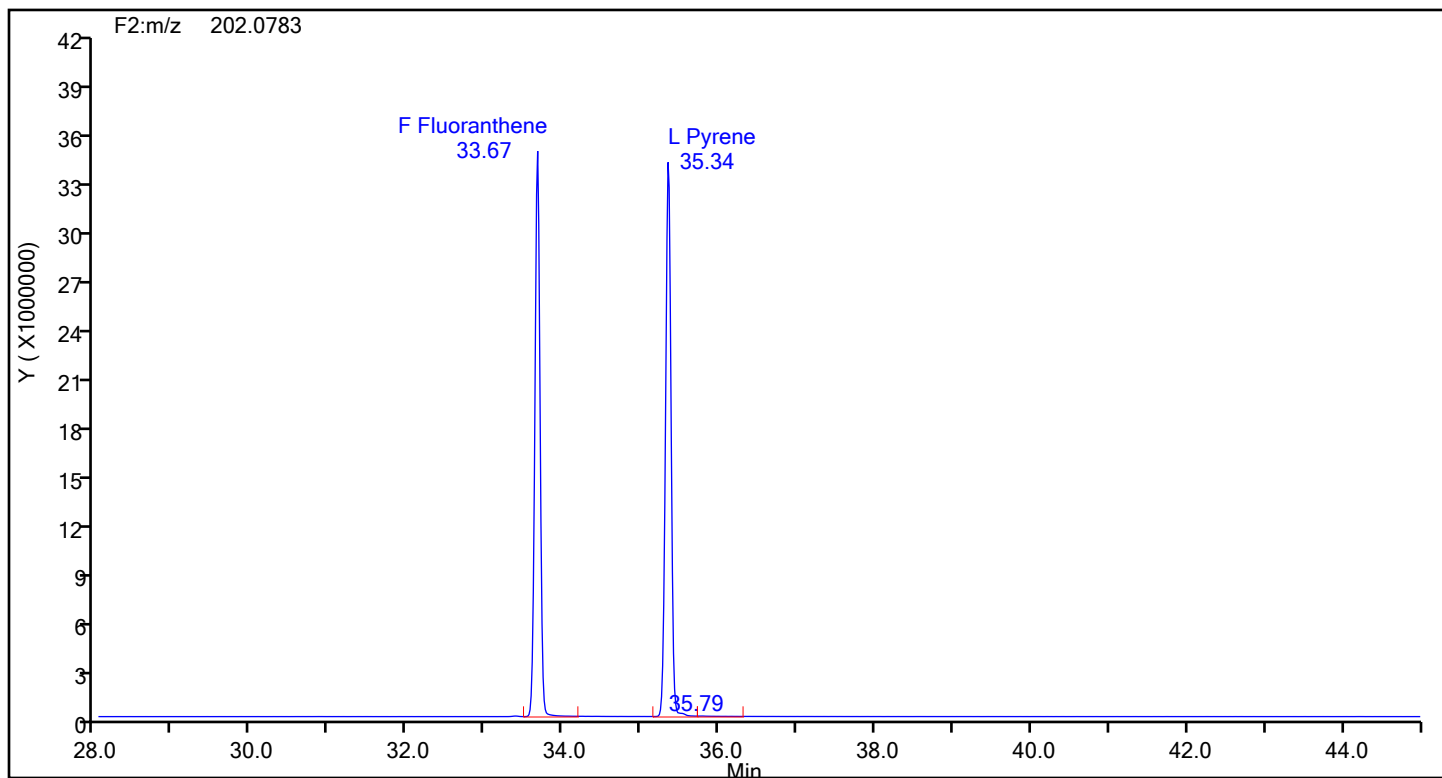
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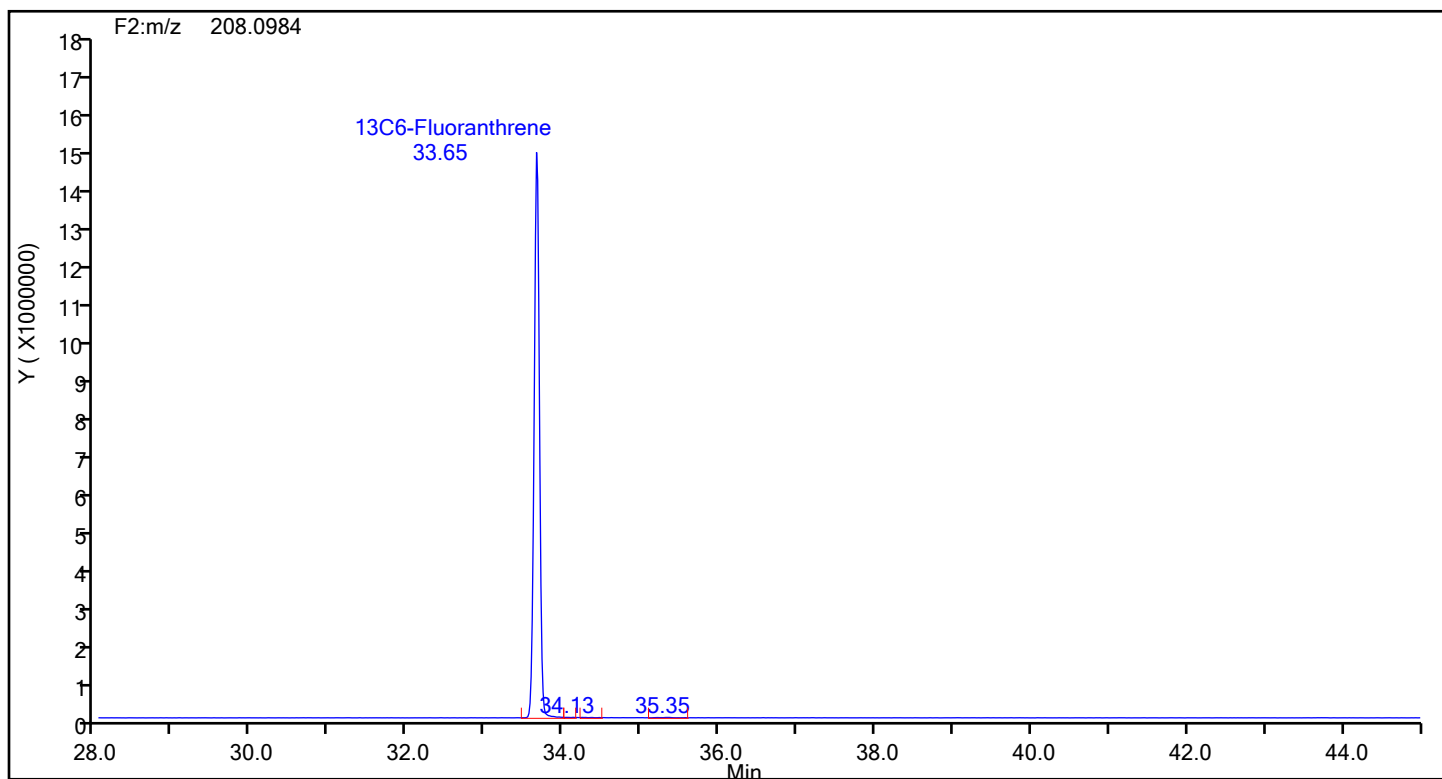
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

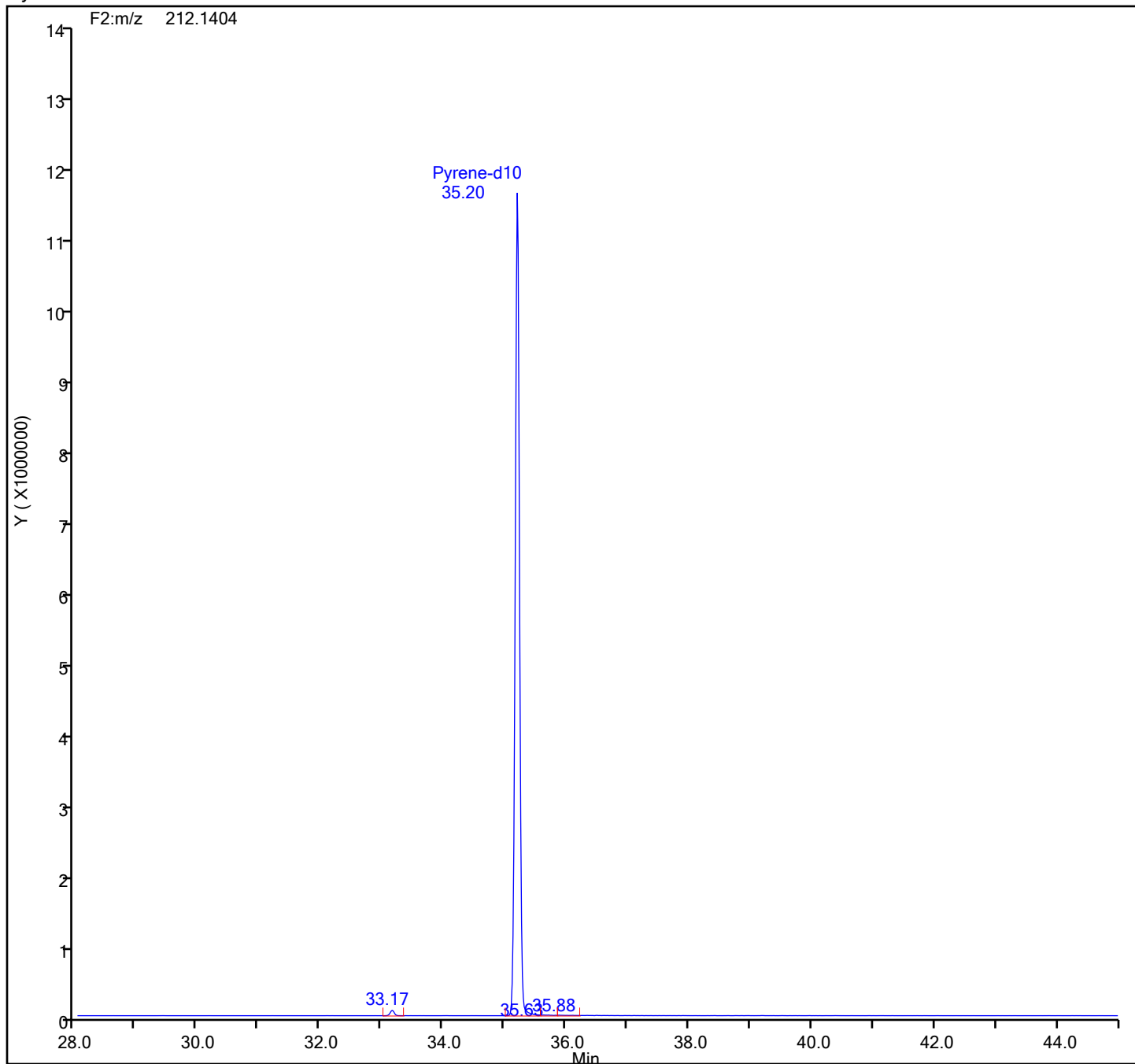
Worklist#: 88945

Sample Line#: 1

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

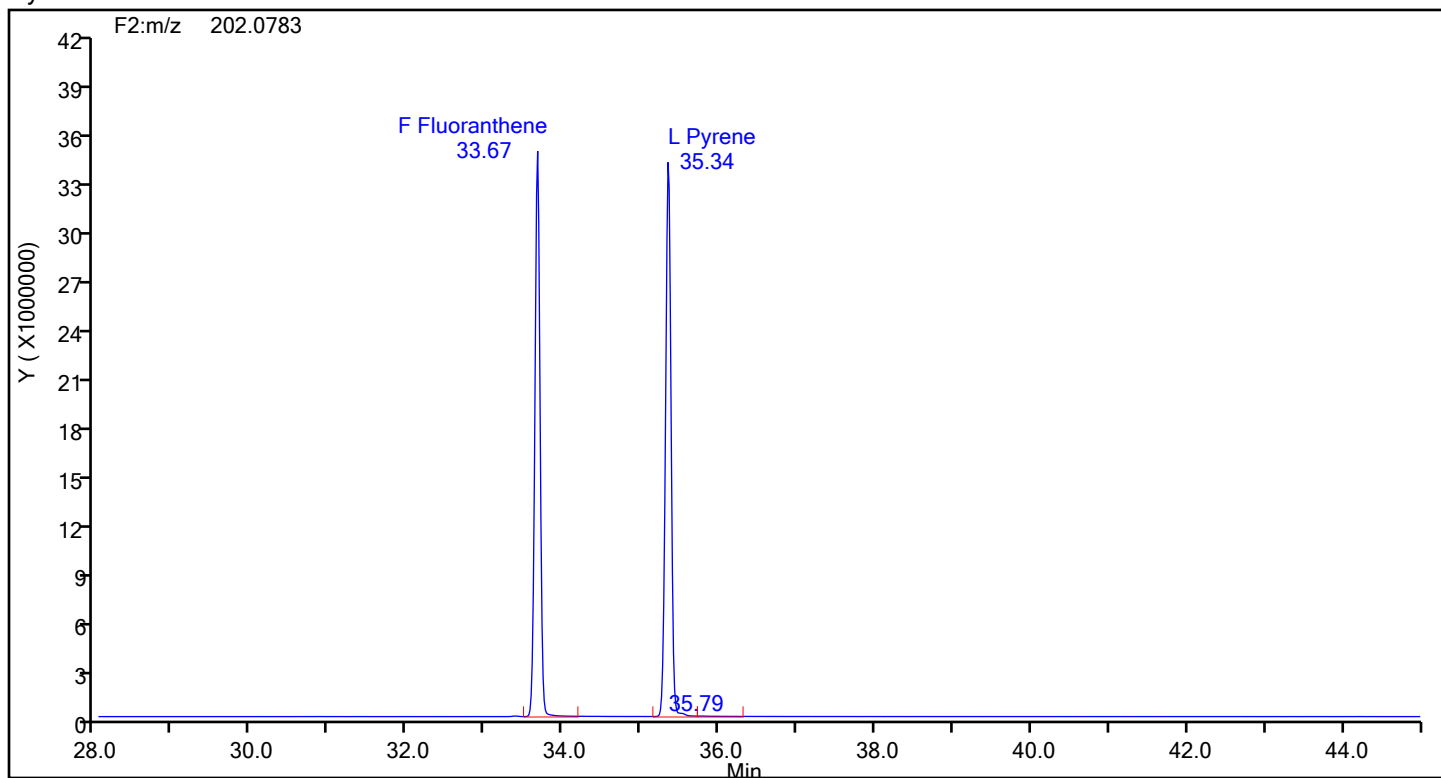
Pyrene-d10 Standards



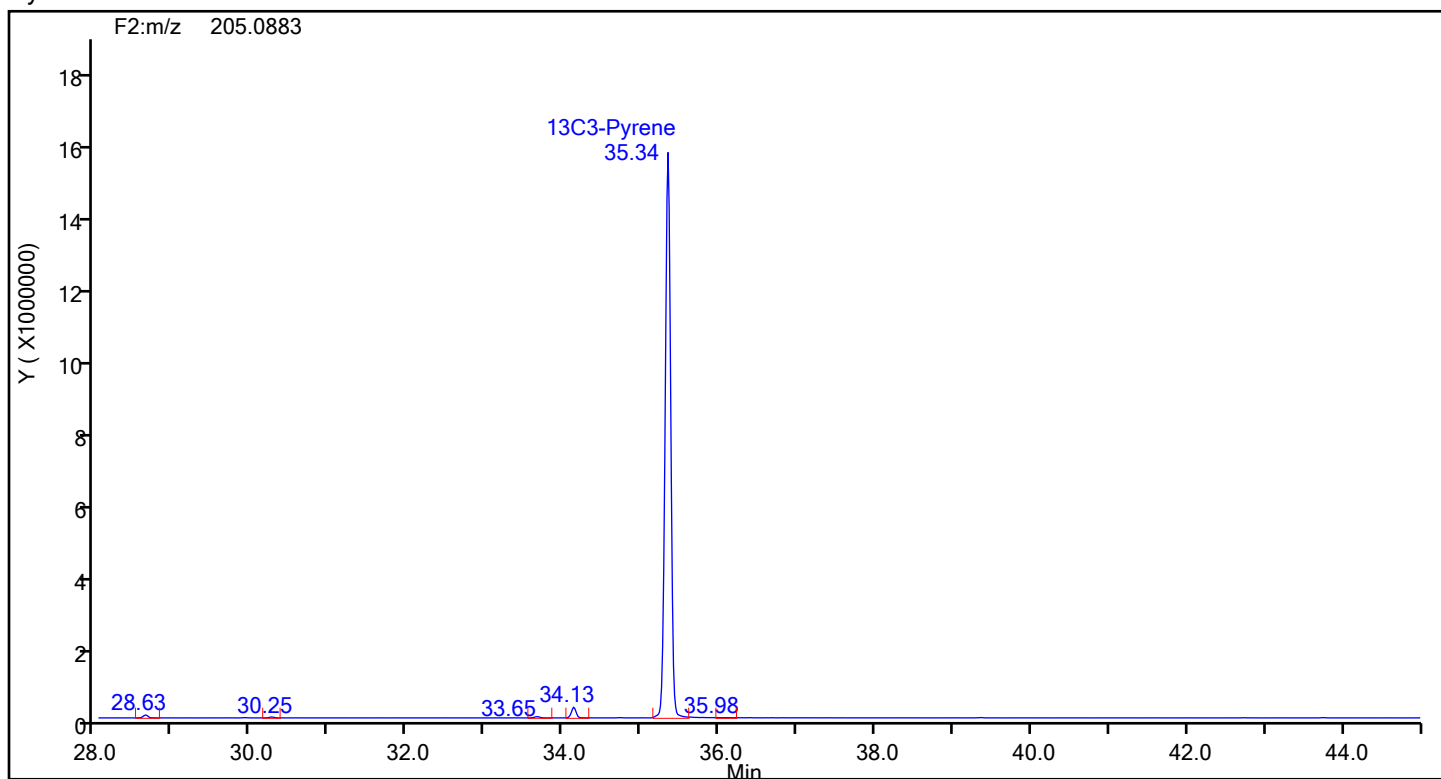
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



Pyrene Standards



Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

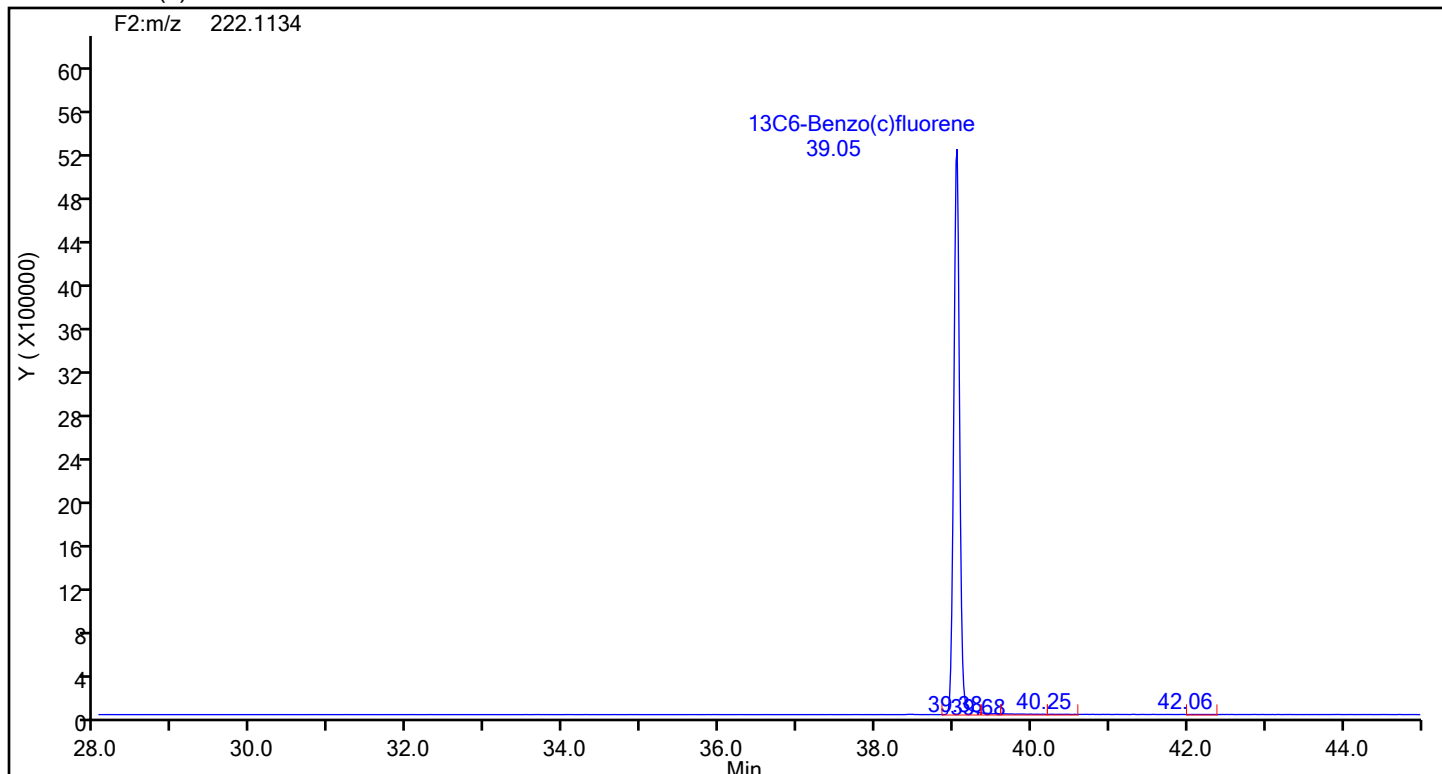
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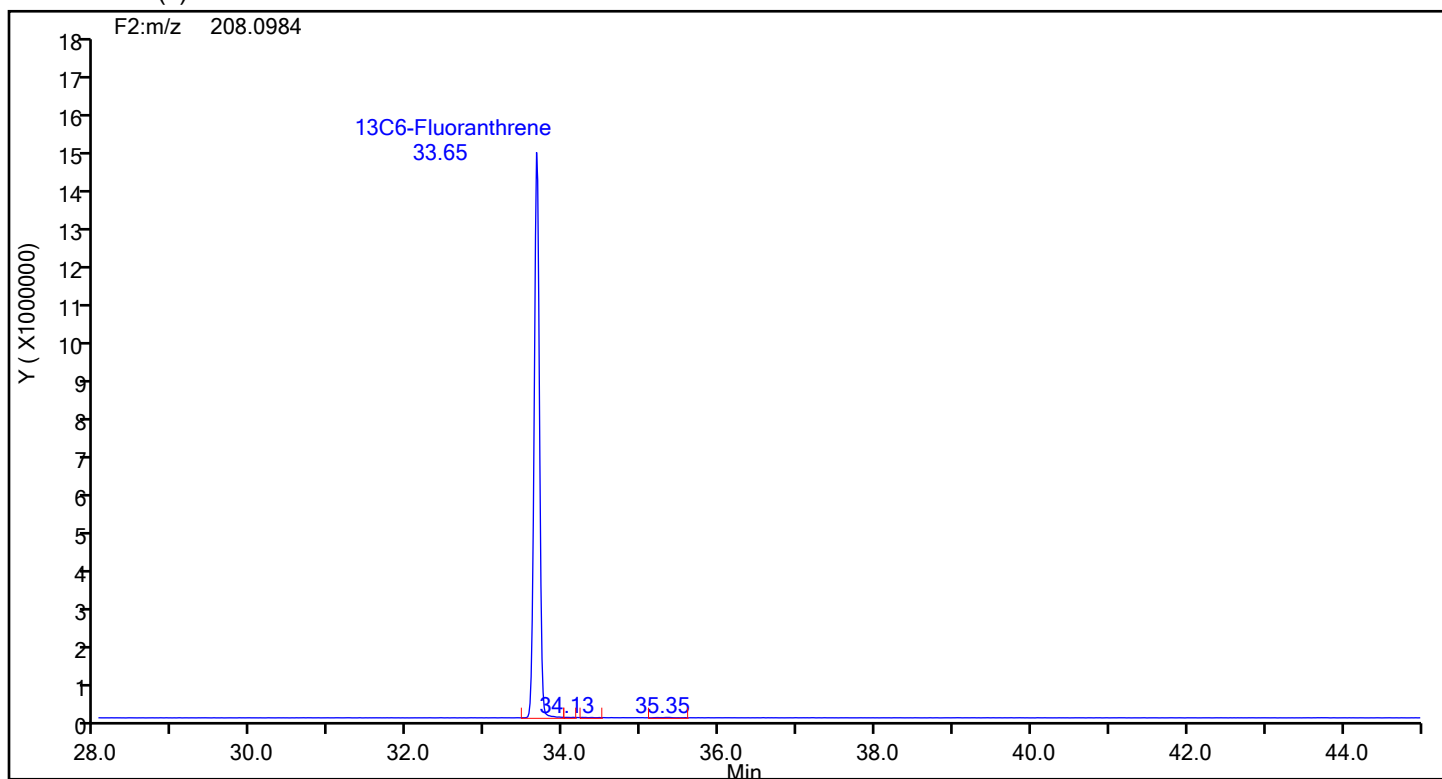
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

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Operator ID: Xcalibur_System

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Limit Group: HR - HRPAAH ICAL

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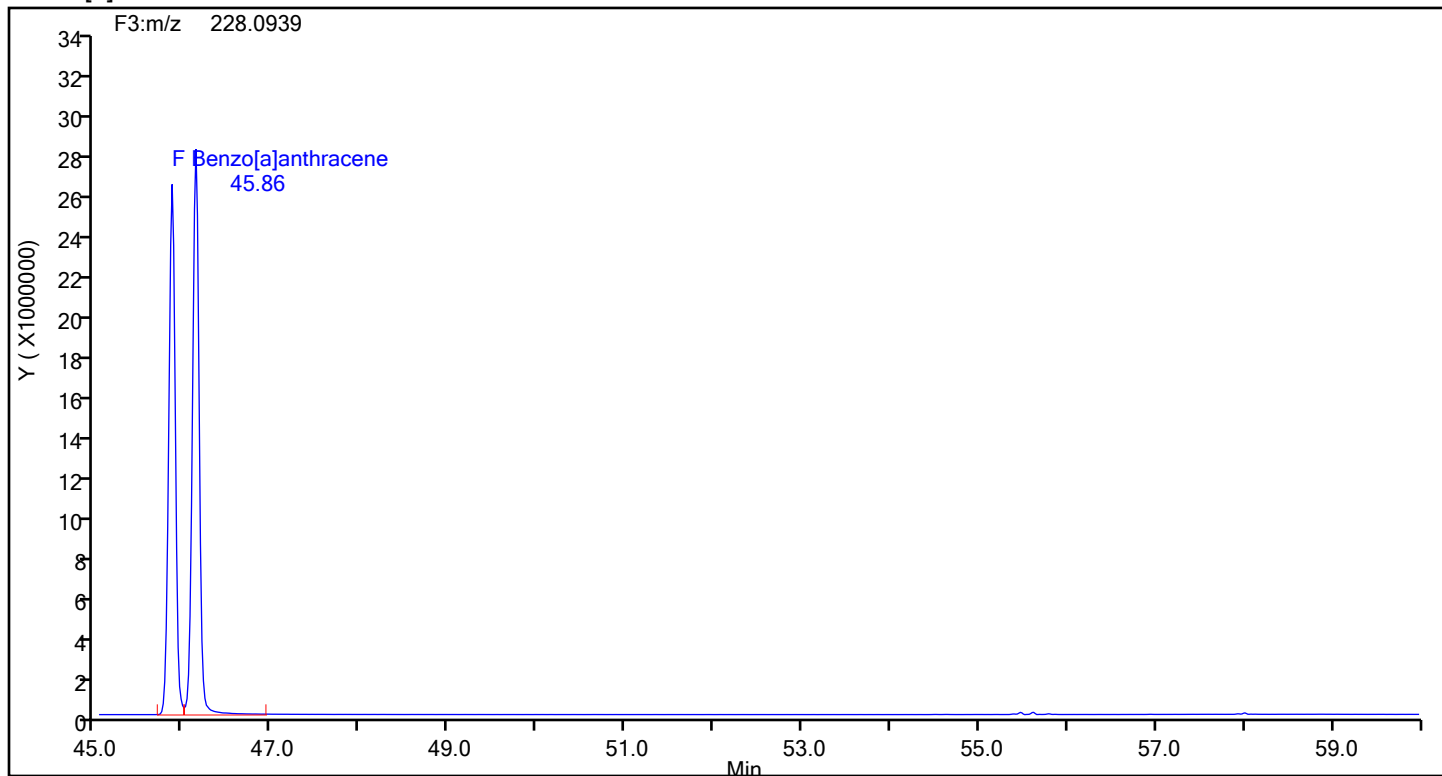
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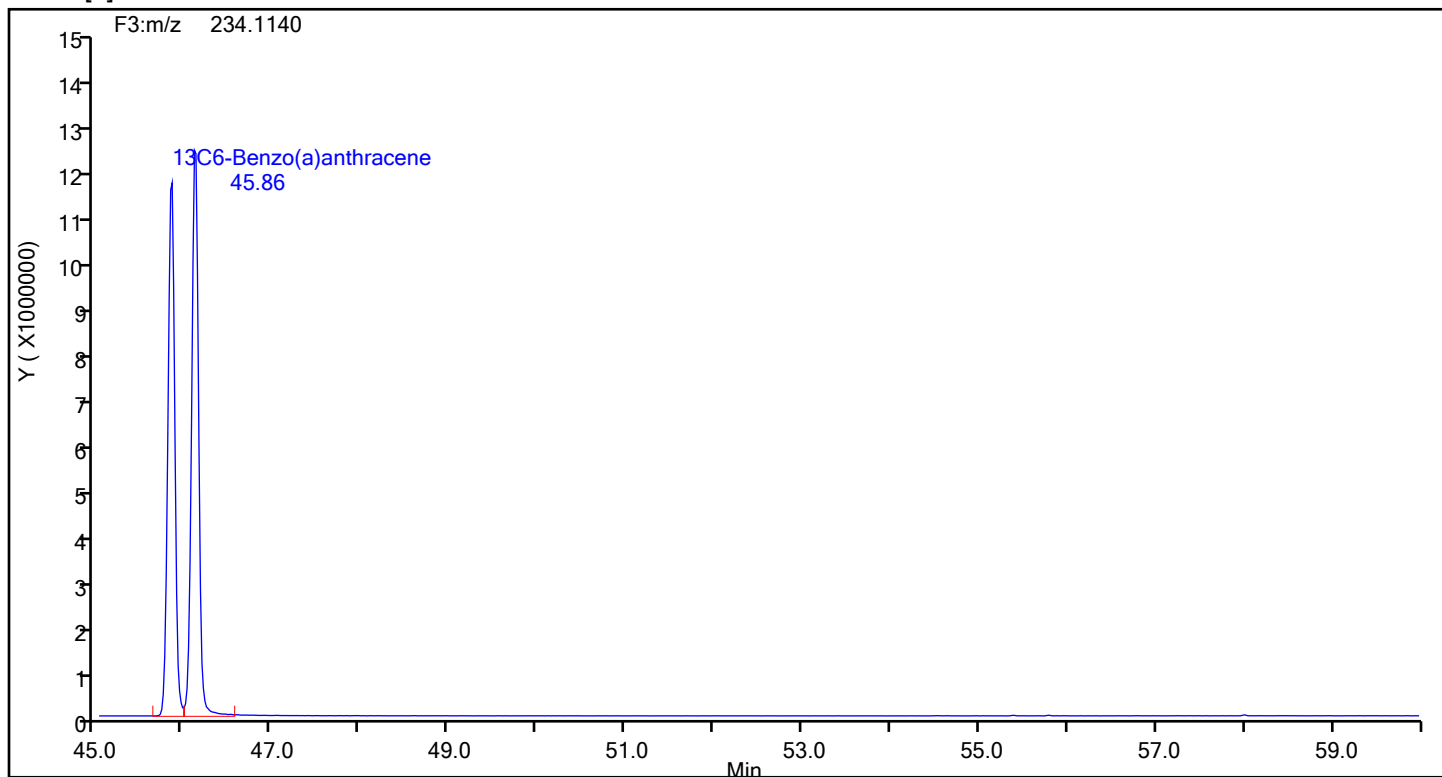
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

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Limit Group: HR - HRPAAH ICAL

Client ID:

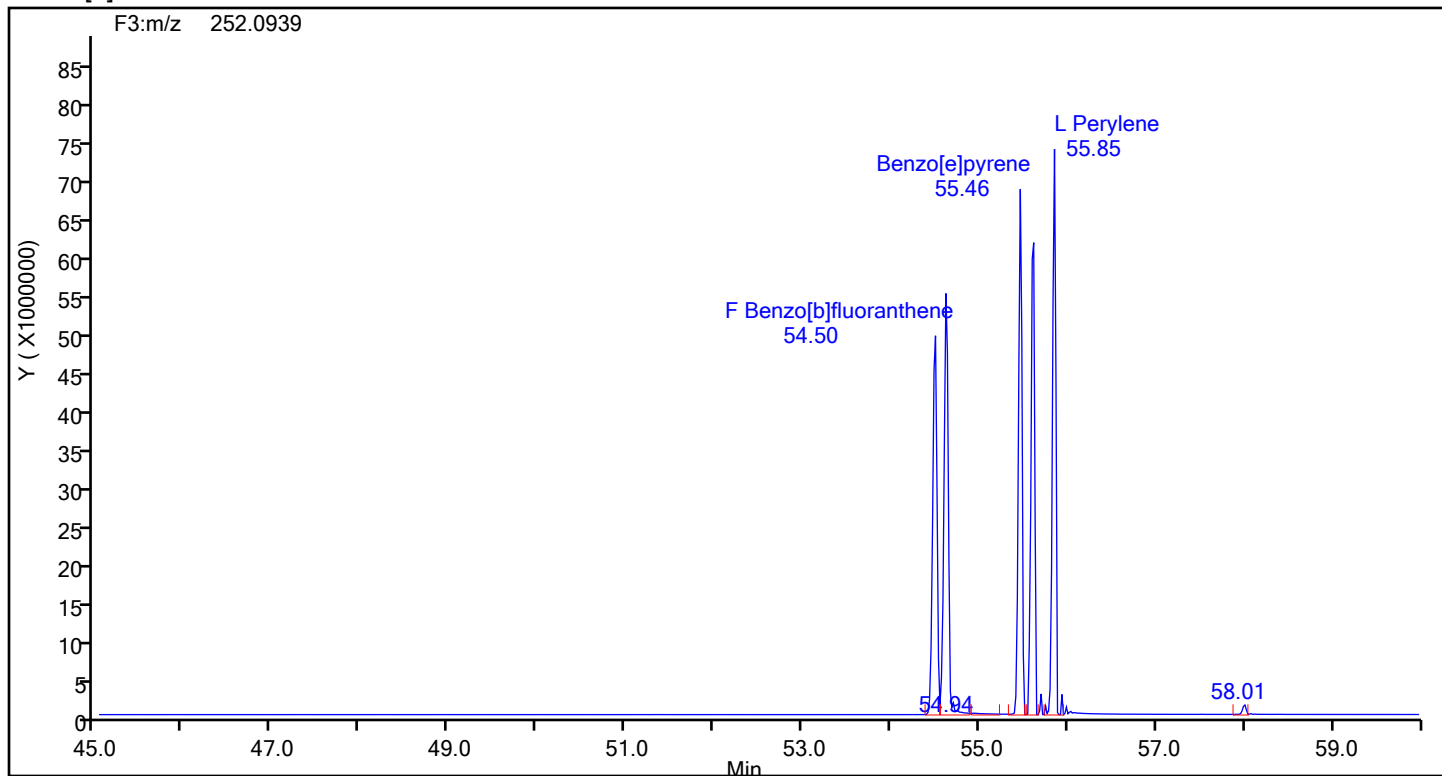
Worklist#: 88945

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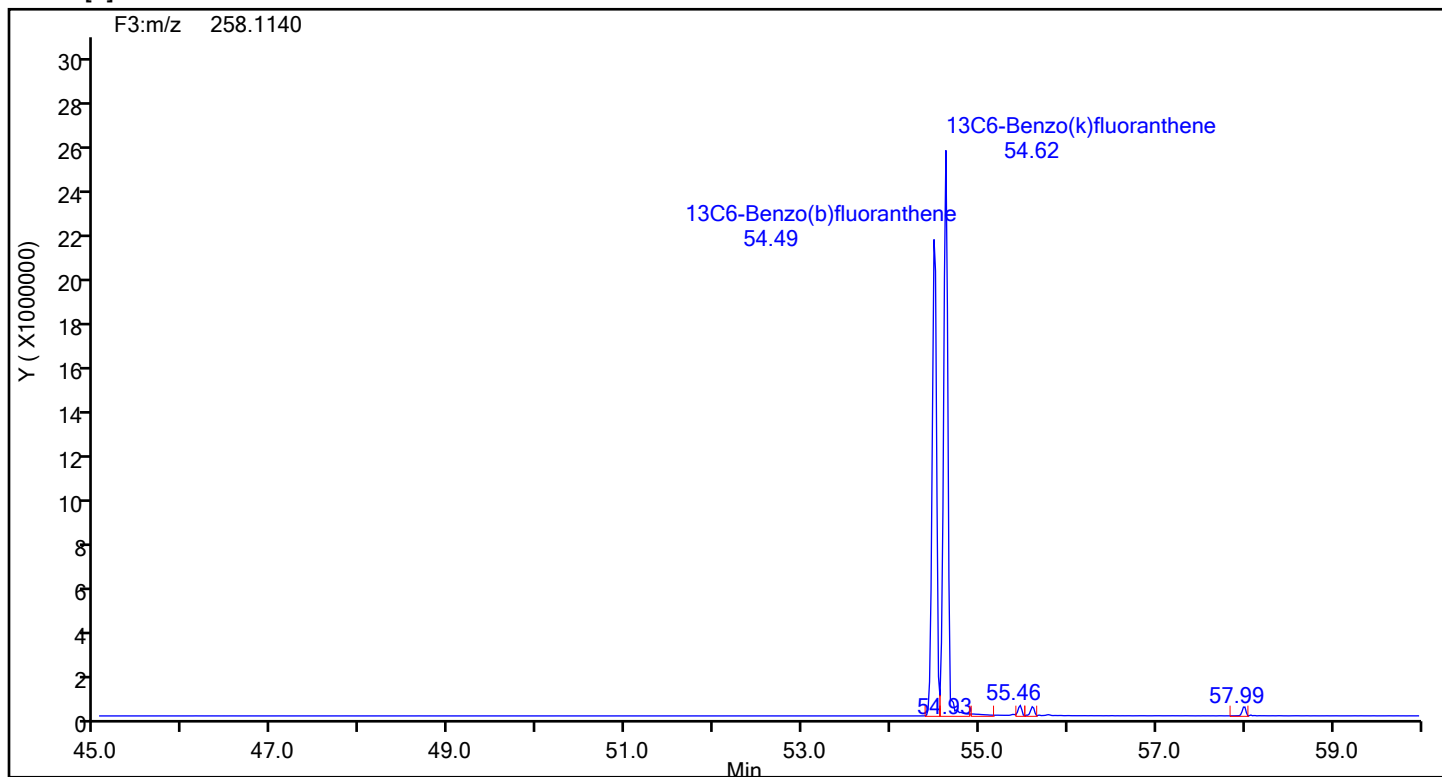
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

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Limit Group: HR - HRPAAH ICAL

Client ID:

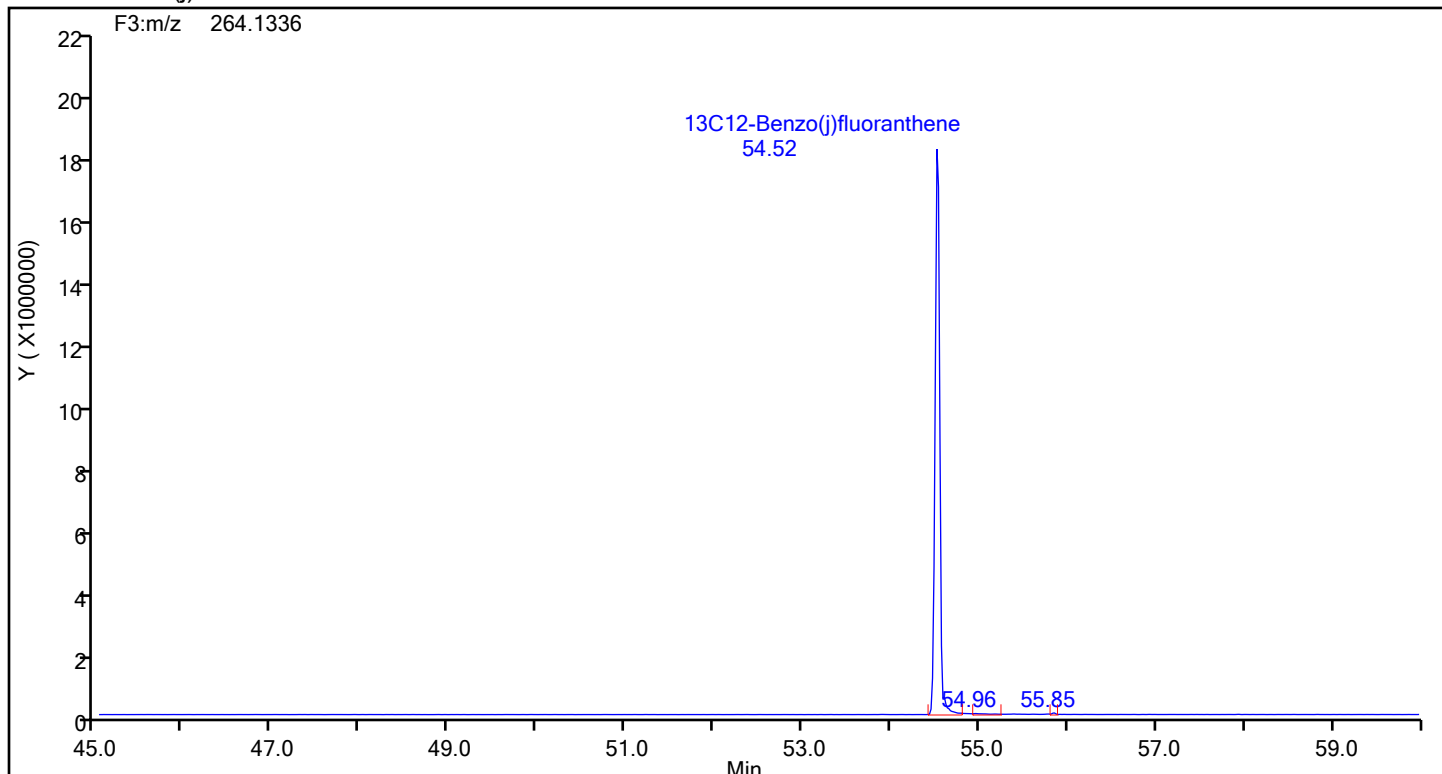
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Sample Line#: 1

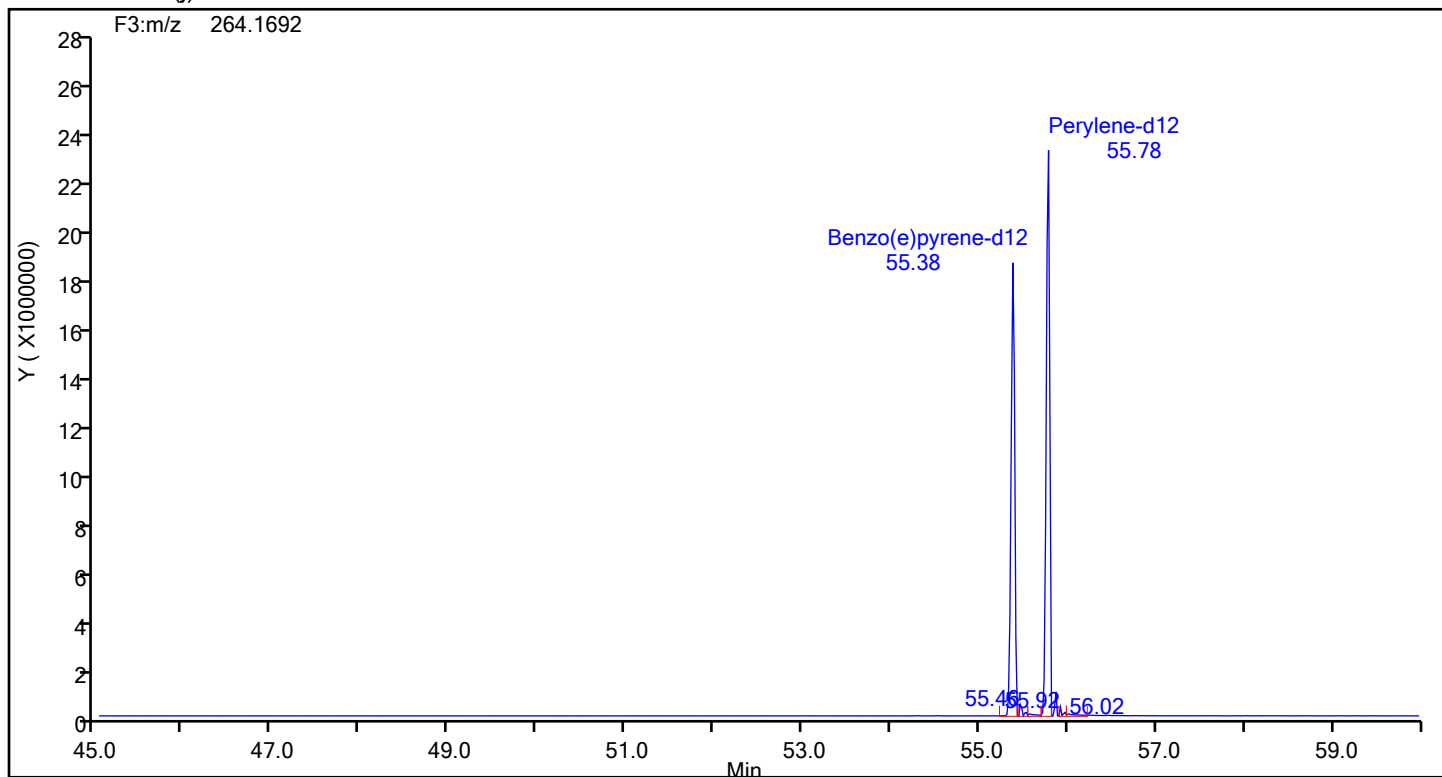
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

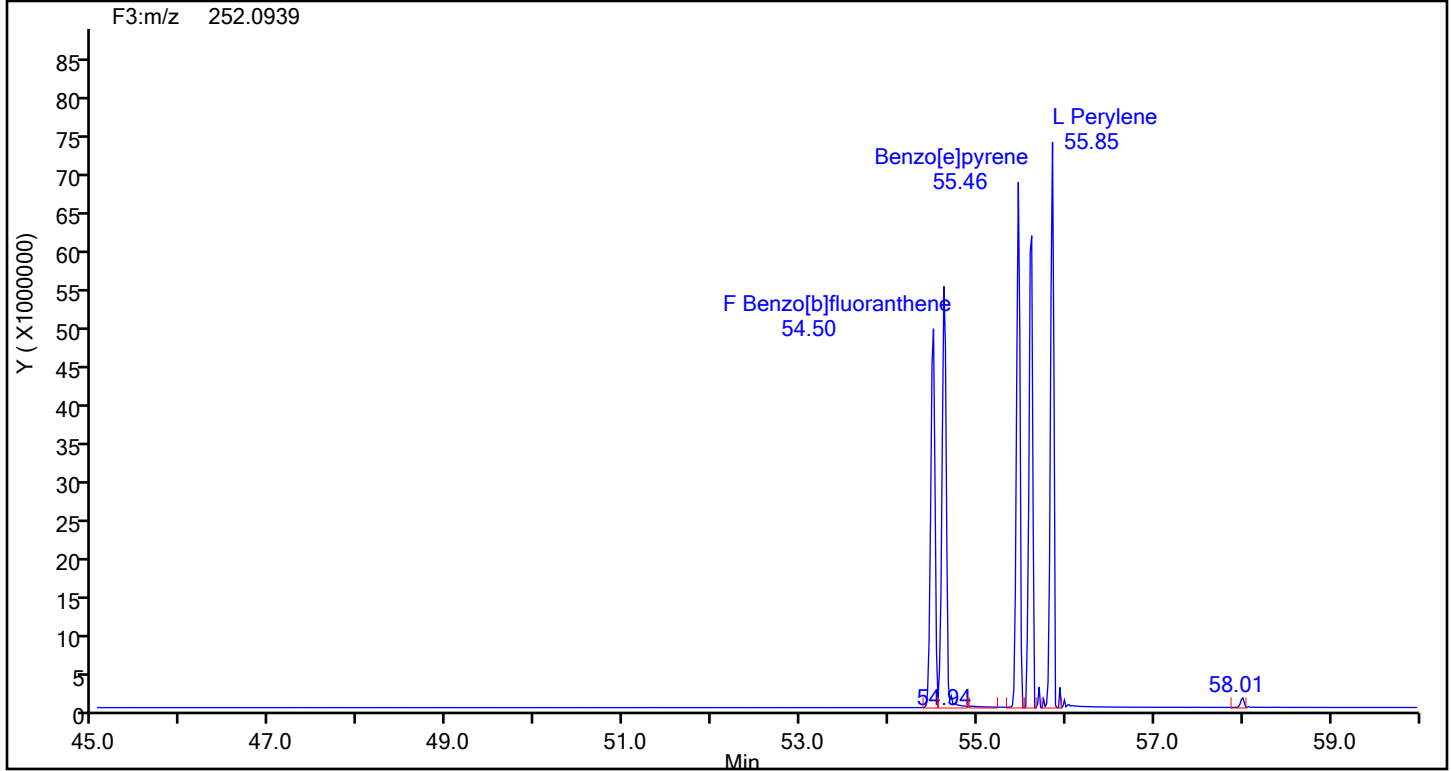
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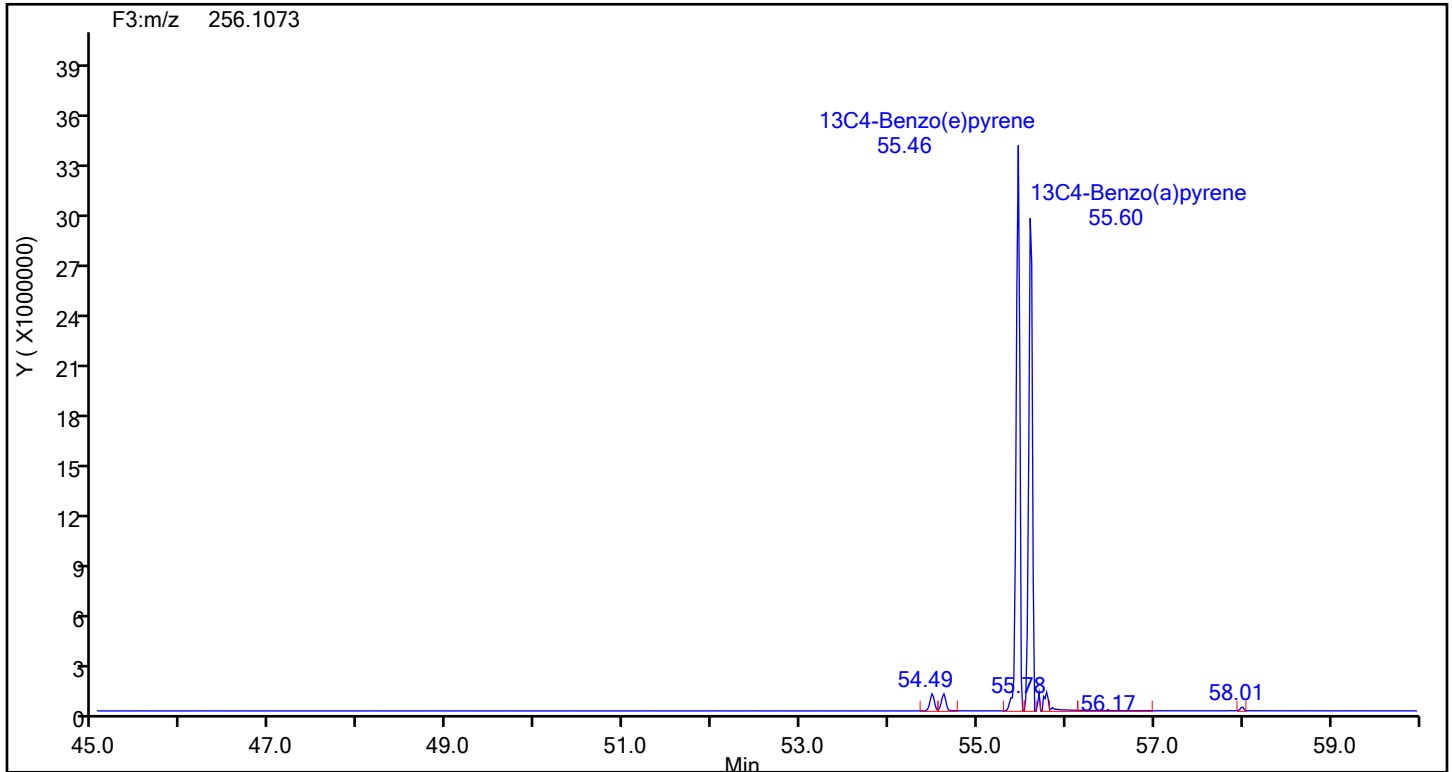
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

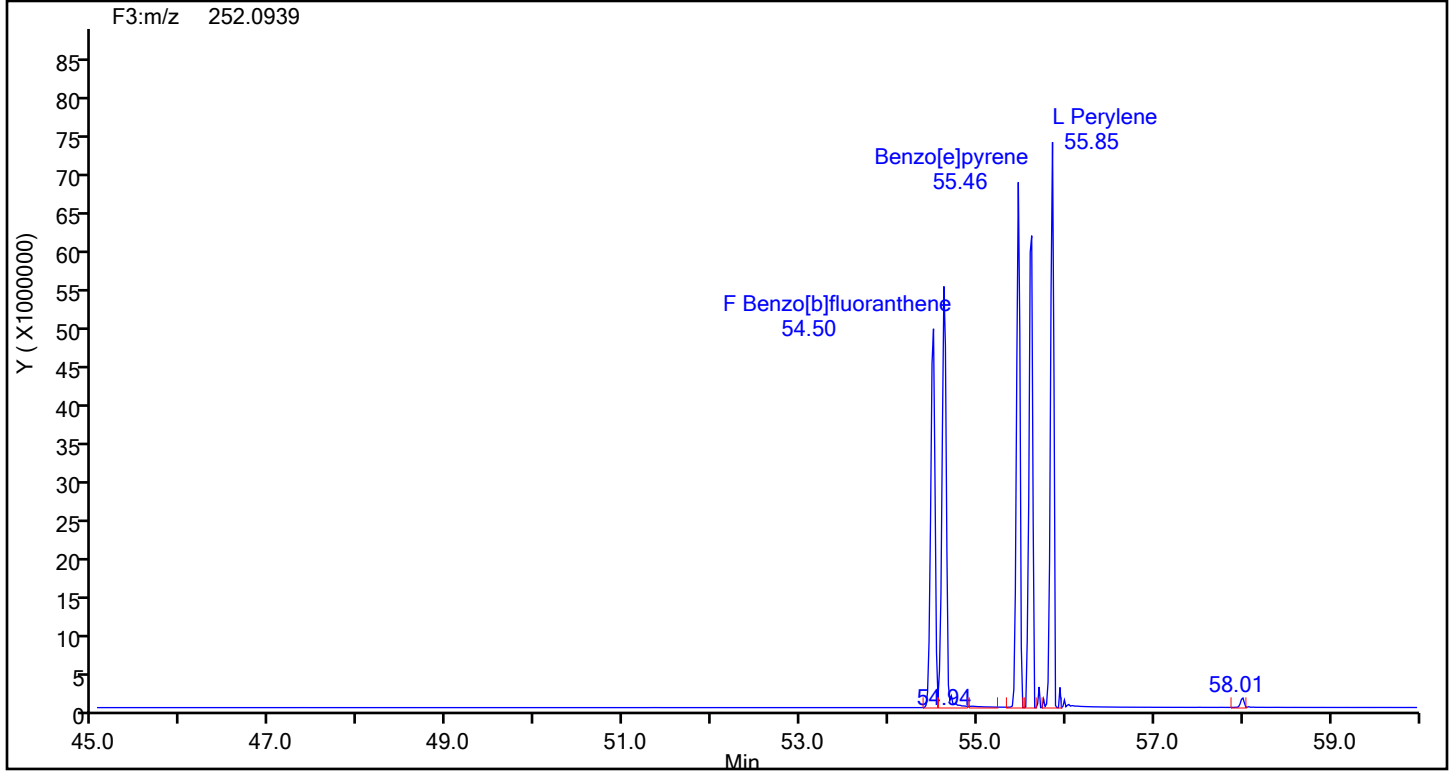
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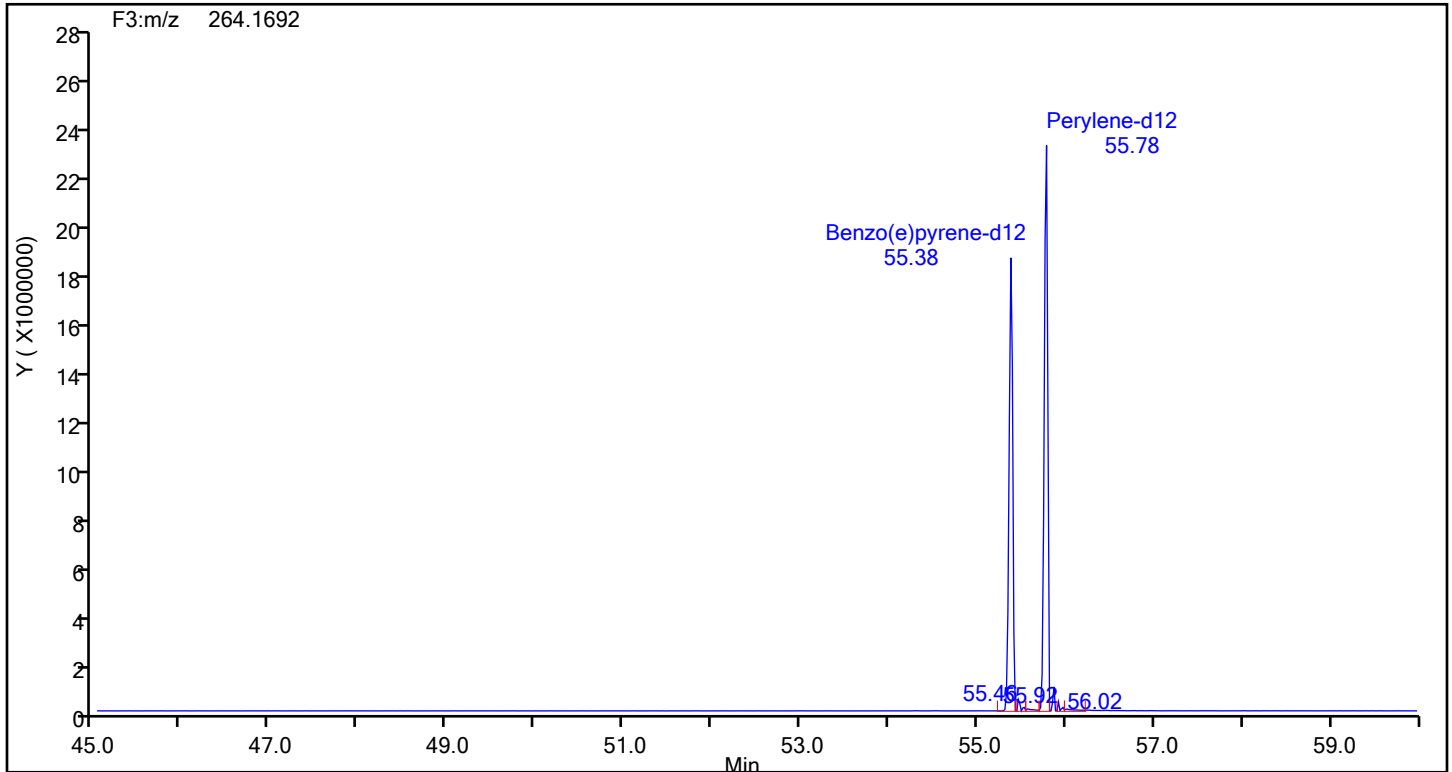
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Perylene



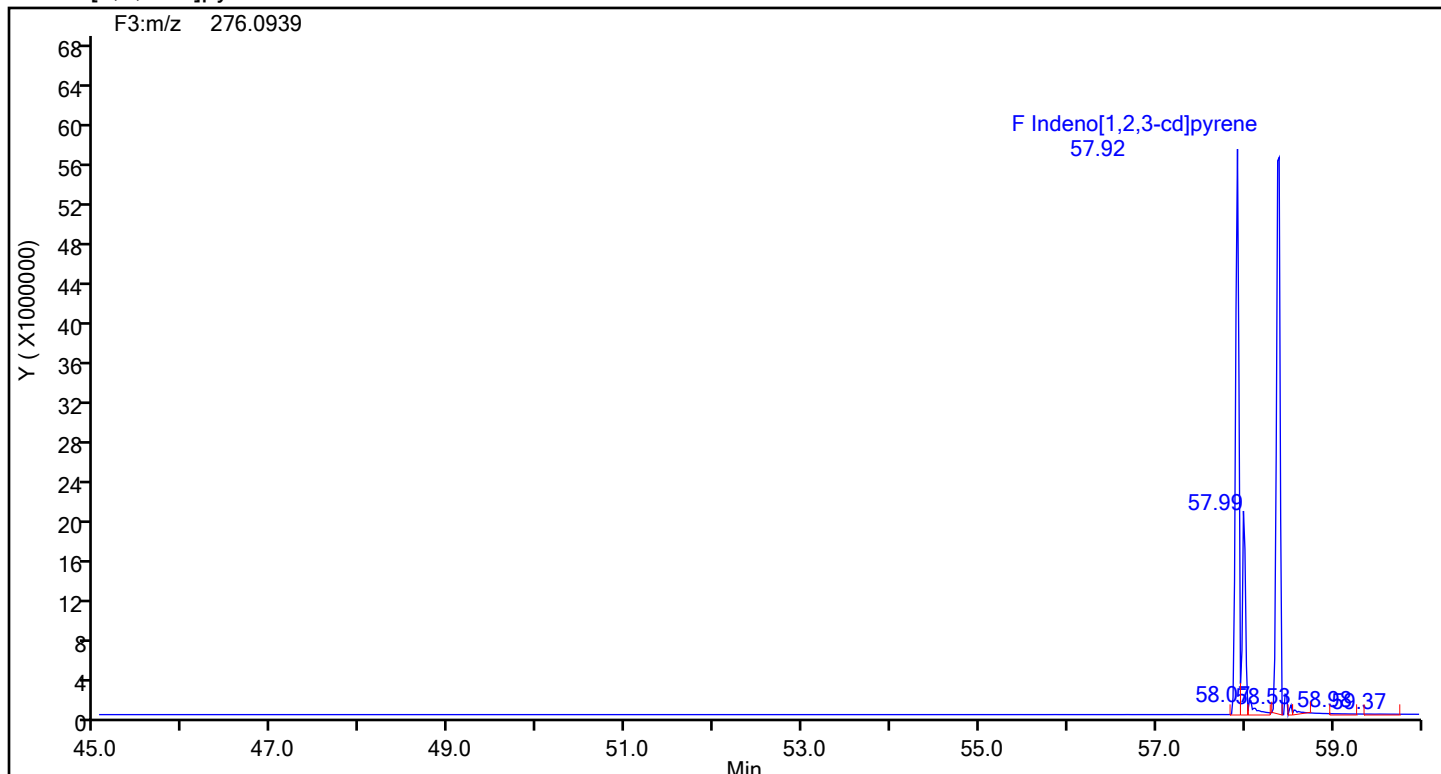
Perylene Standards



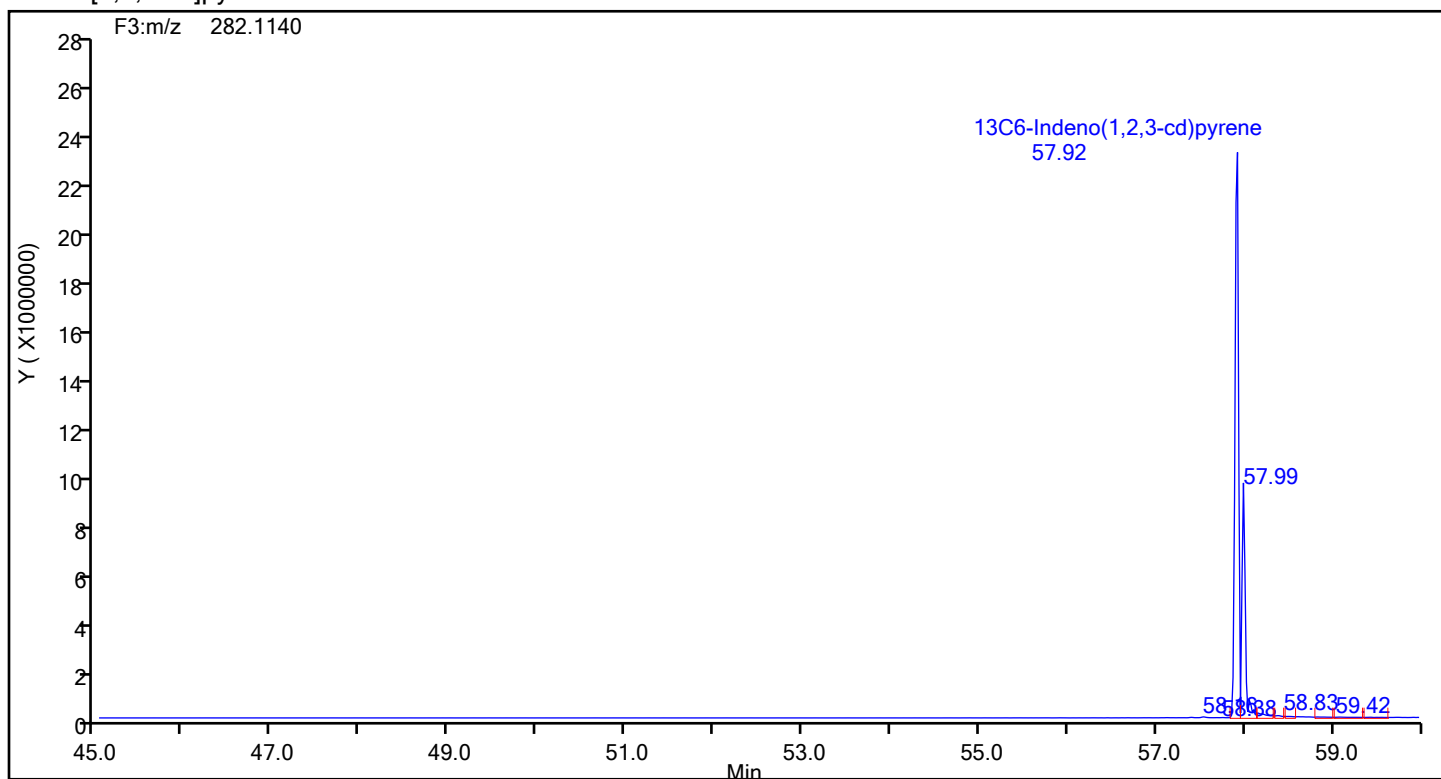
Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88945 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

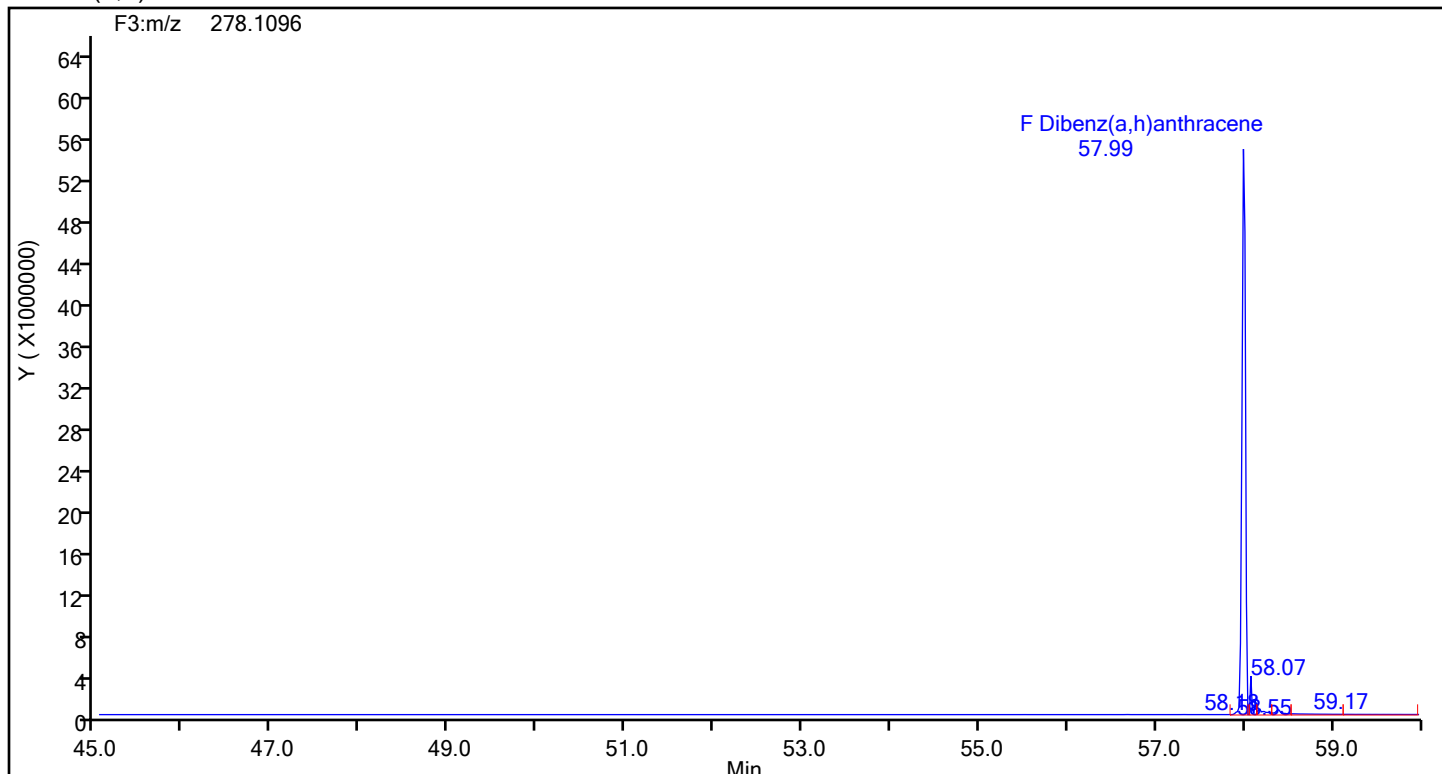
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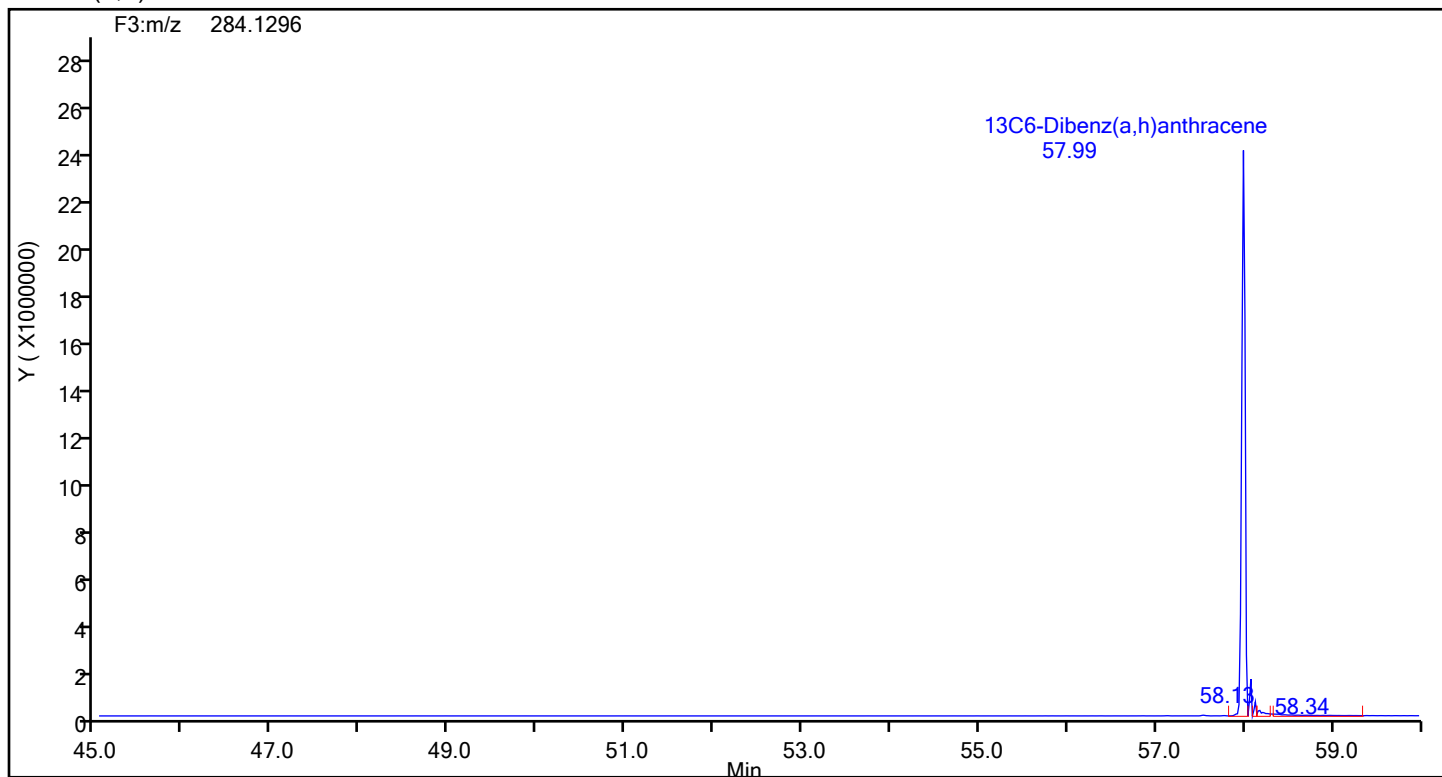
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

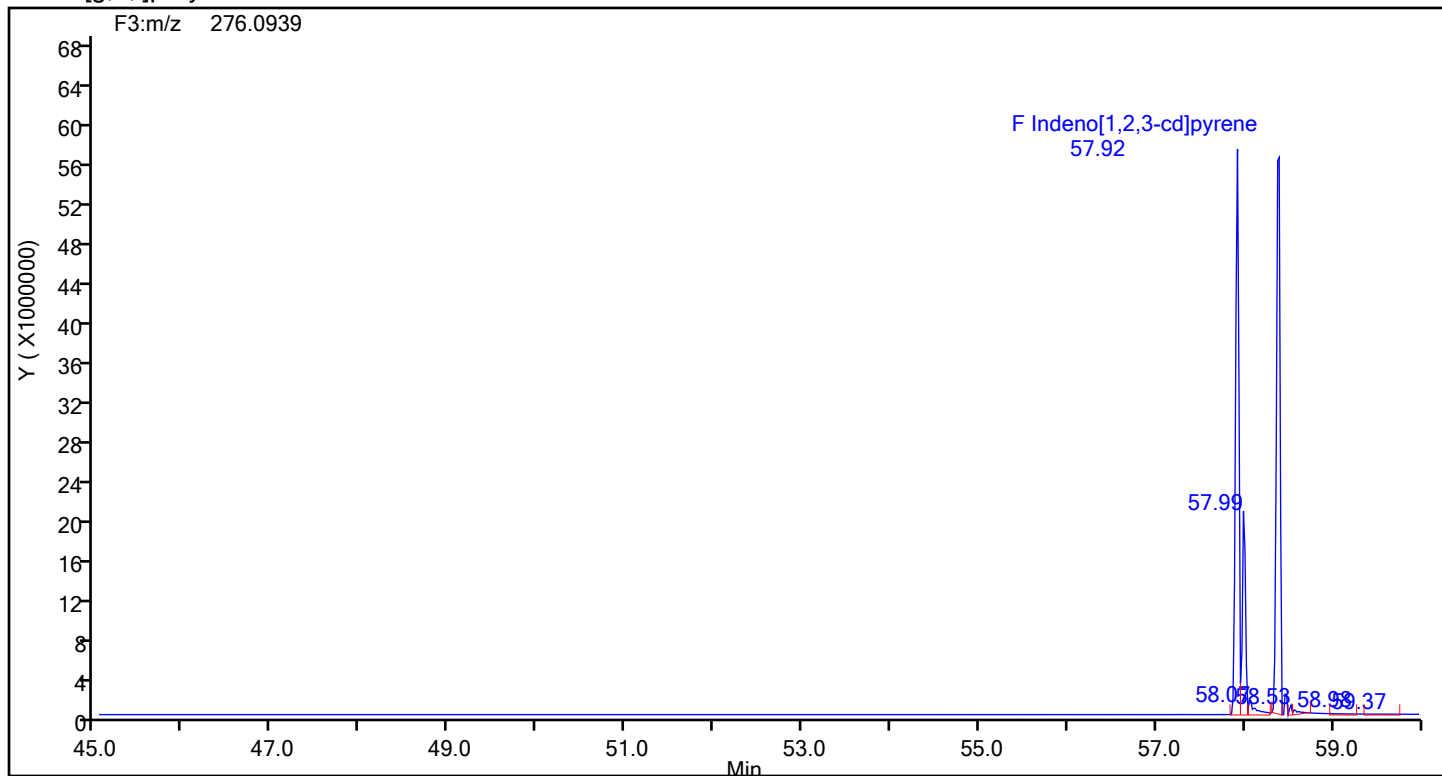
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Sample Line#: 1

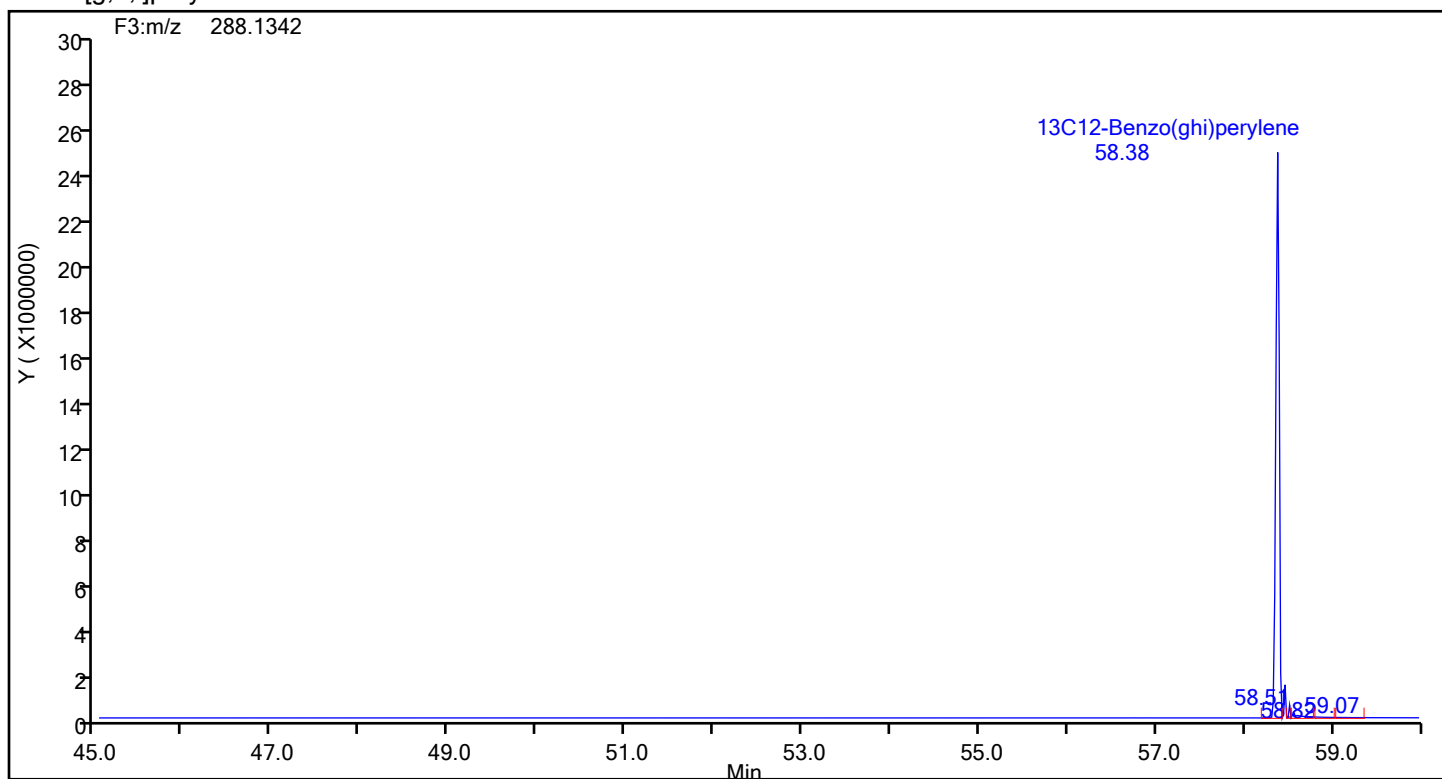
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: CCV 140-88978/1 Calibration Date: 07/19/2024 11:10

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240719c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.209		188	200	-6.2	25.0
2-Methylnaphthalene	AveID	1.279	1.257		197	200	-1.7	25.0
Acenaphthylene	AveID	2.366	2.229		188	200	-5.8	25.0
Acenaphthene	AveID	1.270	1.222		193	200	-3.8	25.0
Fluorene	AveID	1.253	1.281		205	200	2.3	25.0
Phenanthrene	AveID	1.104	1.119		203	200	1.3	25.0
Anthracene	AveID	1.359	1.368		201	200	0.7	25.0
Fluoranthene	AveID	1.151	1.157		201	200	0.5	25.0
Pyrene	AveID	1.065	1.047		197	200	-1.7	25.0
Benzo[a]anthracene	AveID	0.9739	1.040		214	200	6.8	25.0
Chrysene	AveID	0.9815	1.033		211	200	5.3	25.0
Benzo[b]fluoranthene	AveID	1.125	1.145		204	200	1.8	25.0
Benzo[k]fluoranthene	AveID	1.127	1.040		185	200	-7.8	25.0
Benzo[e]pyrene	AveID	1.001	0.9728		194	200	-2.8	25.0
Benzo[a]pyrene	AveID	1.113	1.090		196	200	-2.0	25.0
Perylene	AveID	1.431	1.529		214	200	6.9	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.142		203	200	1.5	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.155		204	200	2.1	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.281		200	200	-0.2	25.0
13C6-Naphthalene	Ave	3.375	2.952		87.5	100	-12.5	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.426		89.0	100	-11.0	30.0
13C6-Acenaphthylene	Ave	1.652	1.699		103	100	2.8	30.0
13C6-Acenaphthene	Ave	0.9792	1.011		103	100	3.3	30.0
13C6-Fluorene	Ave	0.8898	0.9707		109	100	9.1	30.0
13C6-Phenanthrene	Ave	0.5724	0.5866		103	100	2.5	30.0
13C6-Anthracene	Ave	0.4523	0.4628		102	100	2.3	30.0
13C6-Fluoranthrene	Ave	1.199	1.272		106	100	6.1	30.0
13C3-Pyrene	Ave	1.351	1.493		111	100	10.5	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.264		83.2	100	-16.8	30.0
13C6-Chrysene	Ave	1.629	1.448		88.9	100	-11.1	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.473		101	100	0.7	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.786		102	100	2.0	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.820		111	100	11.2	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.615		104	100	4.2	30.0
Perylene-d12	Ave	1.192	1.215		102	100	2.0	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.235		121	100	20.8	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.202		114	100	13.9	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.287		101	100	0.9	30.0

Resolution Check Report (DFS SN: 3439)

Date: 19 Jul 2024 10:54
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

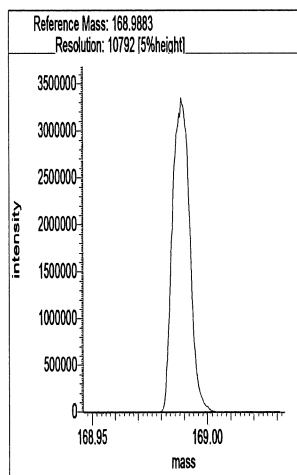
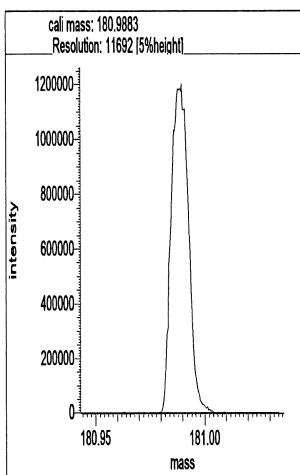
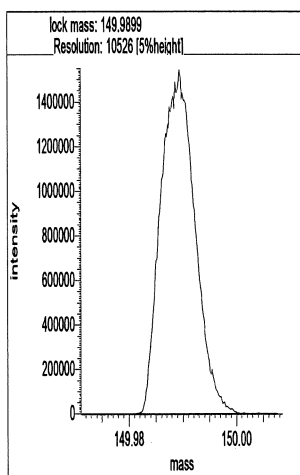
Segment 1

-d3240719r2

Lock mass 149.9899 [m/z] Resolution: 10526 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11692 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 10792 [5%height]

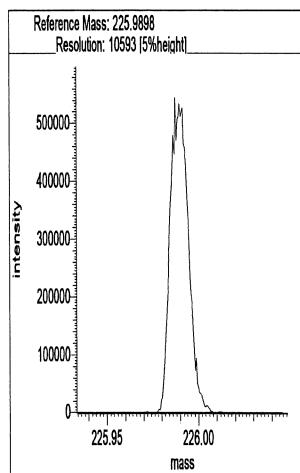
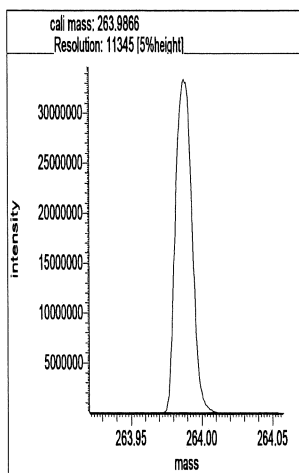
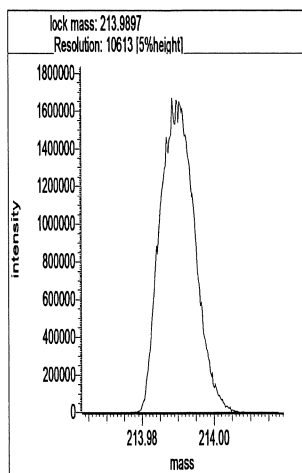


Segment 2

Lock mass 213.9897 [m/z] Resolution: 10613 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11345 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 10593 [5%height]

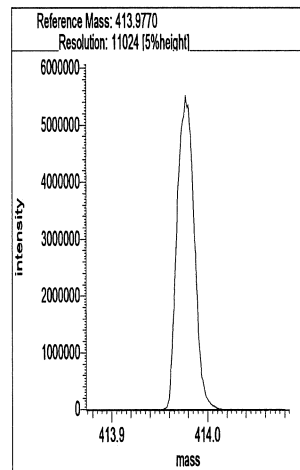
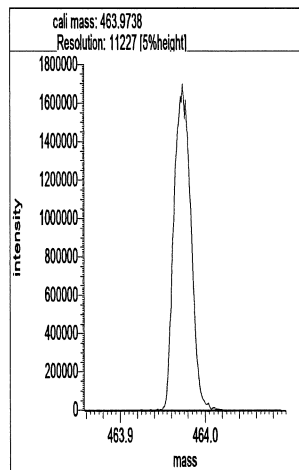
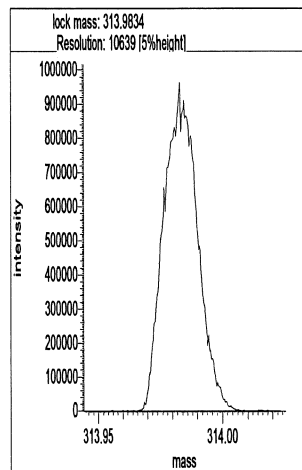


Segment 3

Lock mass 313.9834 [m/z] Resolution: 10639 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11227 [5%height]

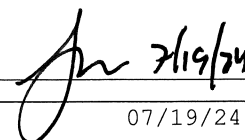
Ref. mass 413.9770 [m/z] Resolution: 11024 [5%height]



Reports

11:06:54: Peak matching procedure started
11:06:55:
11:06:55: Reference mass: 263.98656
11:06:56: Sample mass: 414.0
11:06:56:
11:06:57: Finding reference mass
11:06:58: Finding sample mass
11:06:58:
11:07:04: [1] 413.9742 amu, mean: 413.9742
11:07:07: [2] 413.9740 amu, mean: 413.9741 SD: 0.13 mmu or: 0.32 ppm
11:07:10: [3] 413.9741 amu, mean: 413.9741 SD: 0.10 mmu or: 0.24 ppm
11:07:14: [4] 413.9742 amu, mean: 413.9741 SD: 0.09 mmu or: 0.21 ppm
11:07:17: [5] 413.9737 amu, mean: 413.9740 SD: 0.20 mmu or: 0.48 ppm
11:07:20: [6] 413.9744 amu, mean: 413.9741 SD: 0.24 mmu or: 0.57 ppm
11:07:23: [7] 413.9739 amu, mean: 413.9741 SD: 0.23 mmu or: 0.55 ppm
11:07:26: [8] 413.9737 amu, mean: 413.9740 SD: 0.25 mmu or: 0.61 ppm
11:07:29: [9] 413.9734 amu, mean: 413.9739 SD: 0.32 mmu or: 0.77 ppm
11:07:32: [10] 413.9733 amu, mean: 413.9739 SD: 0.36 mmu or: 0.88 ppm
11:07:36: [11] 413.9728 amu, mean: 413.9738 SD: 0.48 mmu or: 1.15 ppm
11:07:36:
11:07:36: Stop requested. Please wait for procedure to finish.
11:07:36:
11:07:39:
11:07:39: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be 'Jm' followed by the date '7/19/24'.

Resolution Check Report (DFS SN: 3439)

Date: 19 Jul 2024 21:53
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

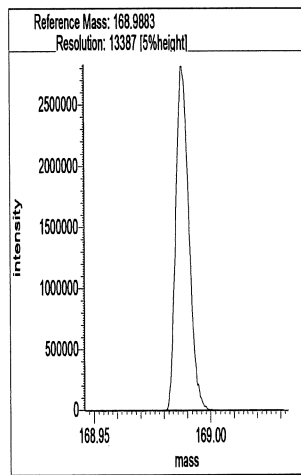
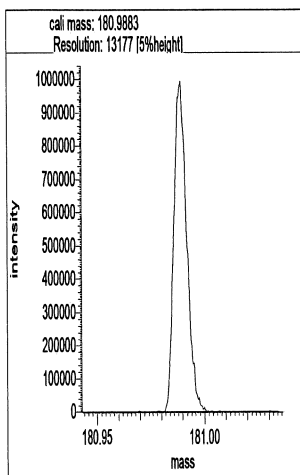
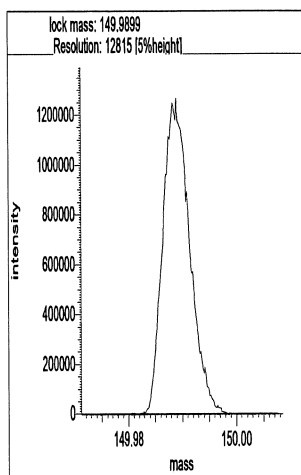
-d3240719r3

Segment 1

Lock mass 149.9899 [m/z] Resolution: 12815 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 13177 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 13387 [5%height]

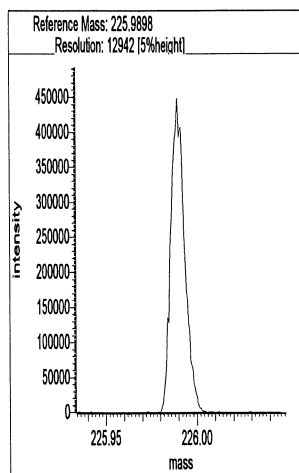
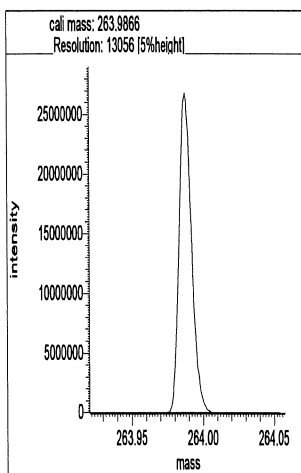
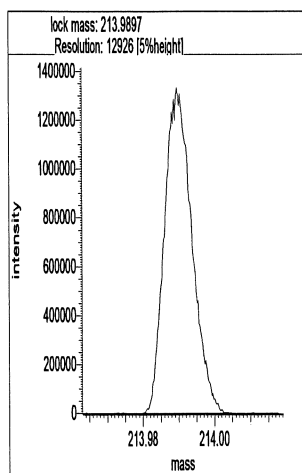


Segment 2

Lock mass 213.9897 [m/z] Resolution: 12926 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 13056 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 12942 [5%height]

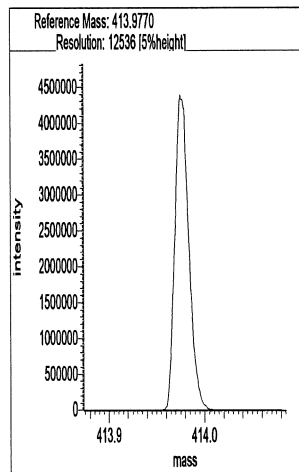
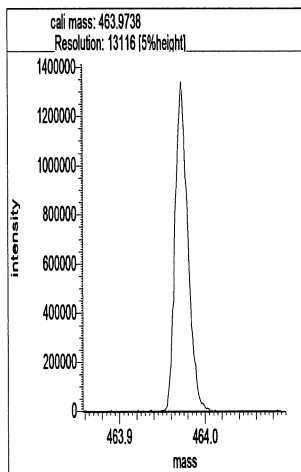
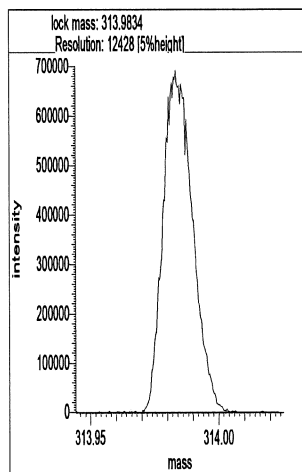


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12428 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 13116 [5%height]


Ref. mass 413.9770 [m/z] Resolution: 12536 [5%height]



Reports

22:01:03: Peak matching procedure started
22:01:03:
22:01:04: Reference mass: 263.98656
22:01:04: Sample mass: 414.0
22:01:05:
22:01:05: Finding reference mass
22:01:06: Finding sample mass
22:01:07:
22:01:12: [1] 413.9756 amu, mean: 413.9756 SD: 0.08 mmu or: 0.19 ppm
22:01:15: [2] 413.9757 amu, mean: 413.9756 SD: 0.15 mmu or: 0.37 ppm
22:01:19: [3] 413.9754 amu, mean: 413.9756 SD: 0.21 mmu or: 0.51 ppm
22:01:22: [4] 413.9752 amu, mean: 413.9755 SD: 0.28 mmu or: 0.68 ppm
22:01:25: [5] 413.9750 amu, mean: 413.9754 SD: 0.39 mmu or: 0.94 ppm
22:01:28: [6] 413.9746 amu, mean: 413.9752 SD: 0.44 mmu or: 1.06 ppm
22:01:31: [7] 413.9746 amu, mean: 413.9752 SD: 0.41 mmu or: 0.98 ppm
22:01:34: [8] 413.9750 amu, mean: 413.9751 SD: 0.38 mmu or: 0.92 ppm
22:01:37: [9] 413.9752 amu, mean: 413.9751 SD: 0.37 mmu or: 0.90 ppm
22:01:41: [10] 413.9754 amu, mean: 413.9752 SD: 0.37 mmu or: 0.90 ppm
22:01:44: [11] 413.9756 amu, mean: 413.9752 SD: 0.37 mmu or: 0.90 ppm
22:01:45:
22:01:45: Stop requested. Please wait for procedure to finish.
22:01:45:
22:01:47:
22:01:47: Peakmatching stopped

Signature

 7-19-24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\d3240719c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Jul-2024 11:10:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 19-Jul-2024 22:18:22 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1620

First Level Reviewer: V4XA

Date: 19-Jul-2024 22:18:22

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:27	54507151		3.3746	87.5	87.5	0.004009	0.004009	87.48	
Naphthalene	11:27	131808621		1.2893	187.6	187.6	0.0217	0.0217	93.78	
D 13C6-2-Methylnaphthalene	13:49	26329998		1.6031	89.0	89.0	0.000486	0.000486	88.95	
2-Methylnaphthalene	13:49	66215434		1.2786	196.7	196.7	0.008777	0.008777	98.35	
D 13C6-Acenaphthylene	16:40	31371407		1.6520	102.8	102.8	0.000699	0.000699	103	
Acenaphthylene	16:40	83232247		2.3661	188.4	188.4	0.0124	0.0124	94.19	
* Acenaphthene-d10	17:14	18464960		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:21	18673015		0.9792	103.3	103.3	0.001792	0.001792	103	
Acenaphthene	17:22	45634074		1.2697	192.5	192.5	0.0125	0.0125	96.24	
Fluorene	19:38	45936329		1.2532	204.5	204.5	0.0144	0.0144	102	
D 13C6-Fluorene	19:38	17924755		0.8898	109.1	109.1	0.000674	0.000674	109	
D 13C6-Phenanthrene	24:59	25961053		0.5724	102.5	102.5	0.001499	0.001499	102	
Phenanthrene	24:59	58110392		1.1044	202.7	202.7	0.0160	0.0160	101	
\$ Anthracin-d10	25:12	18879554		0.4257	100.2	100.2	0.001120	0.001120	100	
D 13C6-Anthracene	25:19	20483837		0.4523	102.3	102.3	0.001897	0.001897	102	
Anthracene	25:19	56058422		1.3586	201.4	201.4	0.0171	0.0171	101	
D 13C6-Fluoranthrene	33:42	56299960		1.1994	106.1	106.1	0.0132	0.0132	106	
Fluoranthene	33:43	130278715		1.1513	201.0	201.0	0.007016	0.007016	100	
* Pyrene-d10	35:15	44256808		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:24	66073743		1.3512	110.5	110.5	0.0137	0.0137	110	
Pyrene	35:24	138408139		1.0652	196.7	196.7	0.006796	0.006796	98.33	
\$ 13C6-Benzo(c)fluorene	39:05	21931466		0.5136	96.5	96.5	0.002785	0.002785	96.49	
D 13C6-Benzo(a)anthracene	45:55	48167367		1.5189	83.2	83.2	0.007207	0.007207	83.21	
Benzo[a]anthracene	45:55	100211308		0.9739	213.6	213.6	0.0326	0.0326	107	
D 13C6-Chrysene	46:11	55182593		1.6287	88.9	88.9	0.006721	0.006721	88.90	
Chrysene	46:11	114043017		0.9815	210.6	210.6	0.0290	0.0290	105	
D 13C6-Benzo(b)fluoranthene	54:32	56119283		1.4621	100.7	100.7	0.000549	0.000549	101	
Benzo[b]fluoranthene	54:32	128565614		1.1249	203.7	203.7	0.002574	0.002574	102	
\$ 13C12-Benzo(j)fluoranthene	54:34	49868910		1.3558	96.5	96.5	0.007978	0.007978	96.51	
D 13C6-Benzo(k)fluoranthene	54:39	68080079		1.7507	102.0	102.0	0.000458	0.000458	102	
Benzo[k]fluoranthene	54:40	141564275		1.1271	184.5	184.5	0.002178	0.002178	92.25	
* Benzo(e)pyrene-d12	55:25	38109234		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:30	69349945		1.6368	111.2	111.2	0.001480	0.001480	111	
Benzo[e]pyrene	55:30	134930354		1.0013	194.3	194.3	0.001844	0.001844	97.16	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:38	61558429		1.5508	104.2	104.2	0.001563	0.001563	104	
Benzo[a]pyrene	55:39	134242217		1.1130	195.9	195.9	0.001967	0.001967	97.96	
D Perylene-d12	55:49	46312133		1.1917	102.0	102.0	0.008159	0.008159	102	
Perylene	55:53	141645199		1.4307	213.8	213.8	0.001909	0.001909	107	
D 13C6-Indeno(1,2,3-cd)pyrene	57:57	47048600		1.0218	120.8	120.8	0.005476	0.005476	121	
Indeno[1,2,3-cd]pyrene	57:57	107480383		1.1249	203.1	203.1	0.002323	0.002323	102	
D 13C6-Dibenz(a,h)anthracene	58:01	45802663		1.0553	113.9	113.9	0.003368	0.003368	114	
Dibenz(a,h)anthracene	58:01	105829559		1.1314	204.2	204.2	0.001630	0.001630	102	
D 13C12-Benzo(ghi)perylene	58:24	49046070		1.2749	100.9	100.9	0.000540	0.000540	101	
Benzo[g,h,i]perylene	58:25	125699990		1.2838	199.6	199.6	0.001847	0.001847	99.82	

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\d3240719c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 19-Jul-2024 11:10:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33585.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 19-Jul-2024 22:18:22 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1620

First Level Reviewer: V4XA

Date: 19-Jul-2024 22:18:22

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:27	11:27	0	0.664	54507151	19170670	361	902	53104		
Naphthalene											
128.0626	11:27	11:27	0	1.001	131808621	46679081	2143	5357	21782		
13C6-2-Methylnaphthalene											
148.0984	13:49	13:49	0	0.801	26329998	12430574	21	52	591932		
2-Methylnaphthalene											
142.0783	13:49	13:49	0	1.000	66215434	32801608	558	1395	58784		
13C6-Acenaphthylene											
158.0828	16:40	16:40	0	0.967	31371407	11347182	31	77	366038		E
Acenaphthylene											
152.0626	16:40	16:40	0	1.000	83232247	30566807	765	1912	39957		
Acenaphthene-d10											
164.1404	17:14	17:14	0		18464960	6667777	9	22	740864		
13C6-Acenaphthene											
160.0984	17:21	17:21	0	1.007	18673015	6494184	47	117	138174		E
Acenaphthene											
154.0783	17:22	17:22	0	1.001	45634074	16242181	412	1030	39423		
Fluorene											
166.0783	19:38	19:38	0	1.000	45936329	14132494	381	952	37093		
13C6-Fluorene											
172.0984	19:38	19:38	0	1.139	17924755	5267150	16	40	329197		E
13C6-Phenanthrene											
184.0984	24:59	24:59	0	0.709	25961053	6001398	29	72	206945		E
Phenanthrene											
178.0783	24:59	24:59	0	1.000	58110392	13969698	424	1060	32947		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:12	25:12	0	0.715	18879554	4149750	16	40	259359		
13C6-Anthracene											
184.0984	25:19	25:19	0	0.718	20483837	4549709	29	72	156887		E
Anthracene											
178.0783	25:19	25:19	0	1.000	56058422	12998434	424	1060	30657		
13C6-Fluoranthrene											
208.0984	33:42	33:42	0	0.956	56299960	11388966	532	1330	21408		E
Fluoranthene											
202.0783	33:43	33:43	0	1.000	130278715	26458368	368	920	71898		
Pyrene-d10											
212.1404	35:15	35:15	0		44256808	8389101	27	67	310707		
13C3-Pyrene											
205.0883	35:24	35:24	0	1.004	66073743	12709116	621	1552	20466		E
Pyrene											
202.0783	35:24	35:24	0	1.000	138408139	27378488	368	920	74398		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:05	0	0.705	21931466	3834772	48	120	79891		
13C6-Benzo(a)anthracene											
234.1140	45:55	45:55	0	1.302	48167367	8737261	573	1432	15248		
Benzo[a]anthracene											
228.0939	45:55	45:55	0	1.000	100211308	18577316	1108	2770	16767		
13C6-Chrysene											
234.1140	46:11	46:11	0	1.310	55182593	9715693	573	1432	16956		
Chrysene											
228.0939	46:11	46:11	0	1.000	114043017	20320420	1108	2770	18340		
13C6-Benzo(b)fluoranthene											
258.1140	54:32	54:32	0	0.984	56119283	15539693	42	105	369993		E
Benzo[b]fluoranthene											
252.0939	54:32	54:32	0	1.000	128565614	35693649	180	450	198298		
13C12-Benzo(j)fluoranthene											
264.1336	54:34	54:34	0	0.985	49868910	13973706	566	1415	24689		
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.986	68080079	18328557	42	105	436394		E
Benzo[k]fluoranthene											
252.0939	54:40	54:40	0	1.000	141564275	40099665	180	450	222776		
Benzo(e)pyrene-d12											
264.1692	55:25	55:25	0		38109234	13081936	509	1272	25701		
13C4-Benzo(e)pyrene											
256.1073	55:30	55:30	0	1.002	69349945	24369645	127	317	191887		E
Benzo[e]pyrene											
252.0939	55:30	55:30	0	1.000	134930354	48491892	180	450	269399		
13C4-Benzo(a)pyrene											
256.1073	55:38	55:38	0	1.004	61558429	20549869	127	317	161810		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:39	55:39	0	1.000	134242217	44781824	180	450	248788		
Perylene-d12											
264.1692	55:49	55:49	0	1.007	46312133	16474704	509	1272	32367		E
Perylene											
252.0939	55:53	55:53	0	1.001	141645199	52047566	180	450	289153		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:57	57:57	0	1.046	47048600	15959969	293	732	54471		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:57	57:57	0	1.000	107480383	39734240	167	417	237930		
13C6-Dibenz(a,h)anthracene											
284.1296	58:01	58:01	0	1.047	45802663	16812973	186	465	90392		E
Dibenz(a,h)anthracene											
278.1096	58:01	58:01	0	1.000	105829559	38003061	124	310	306476		
13C12-Benzo(ghi)perylene											
288.1342	58:24	58:24	0	1.054	49046070	17586412	36	90	488511		E
Benzo[g,h,i]perylene											
276.0939	58:25	58:25	0	1.000	125699990	43359005	167	417	259635		

QC Flag Legend

Processing Flags

Reagents:

61HRPAHCS5a_00002

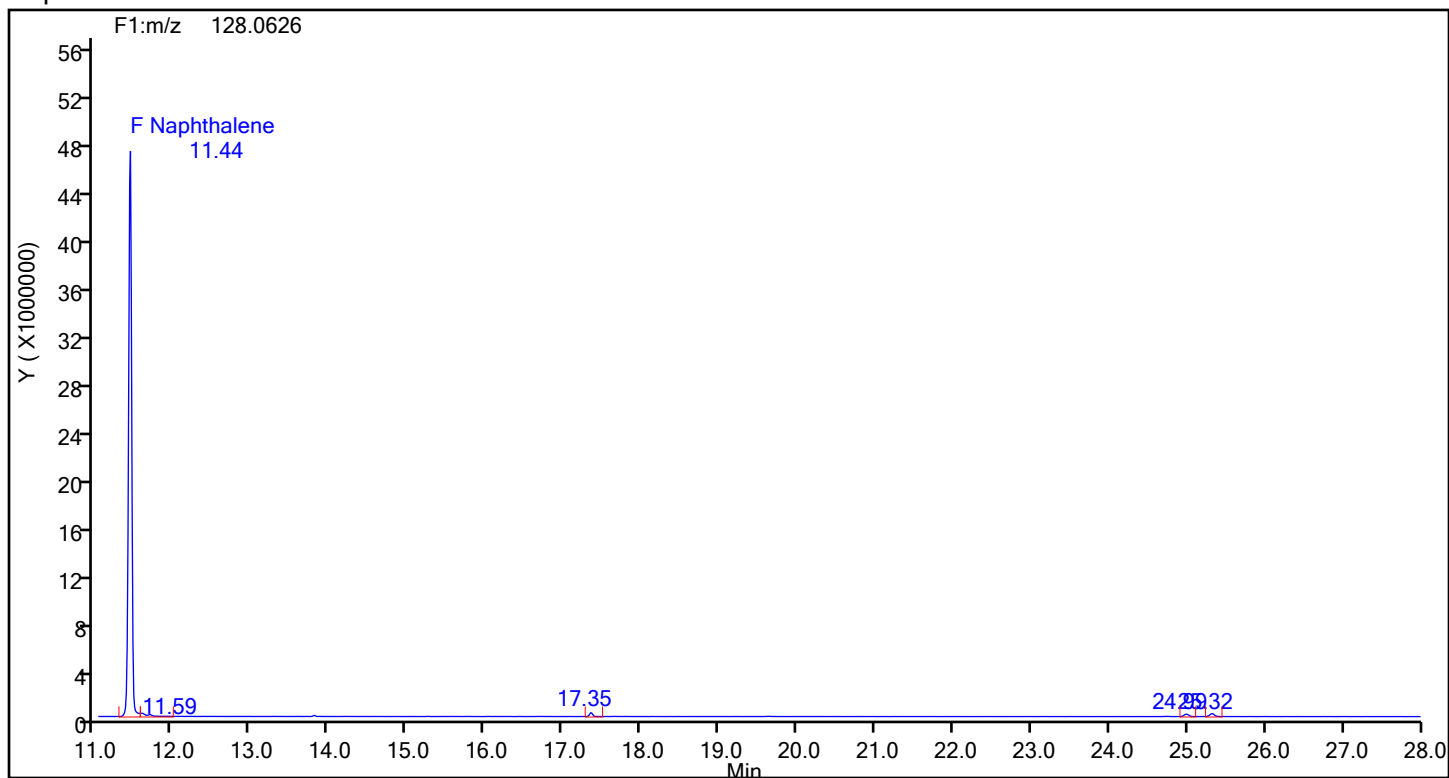
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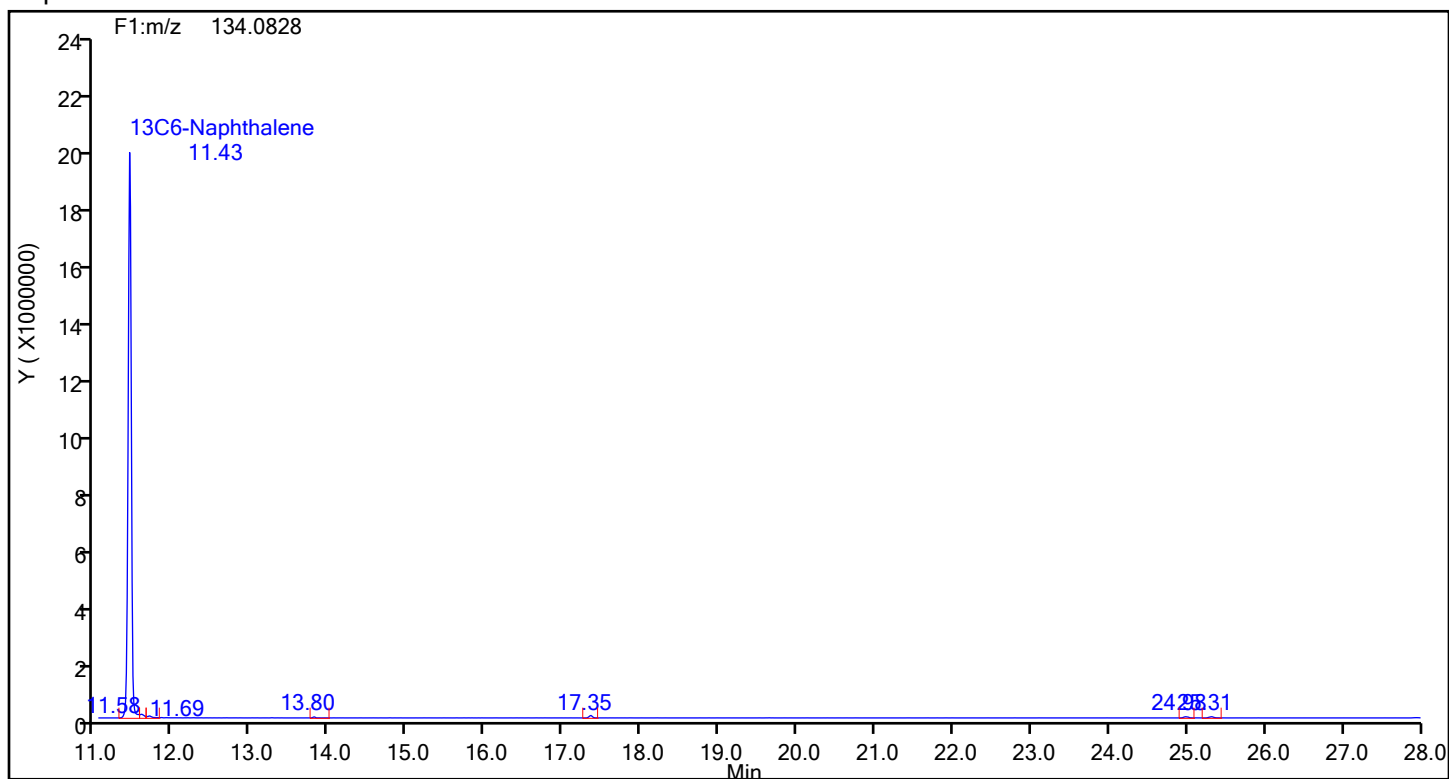
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Naphthalene



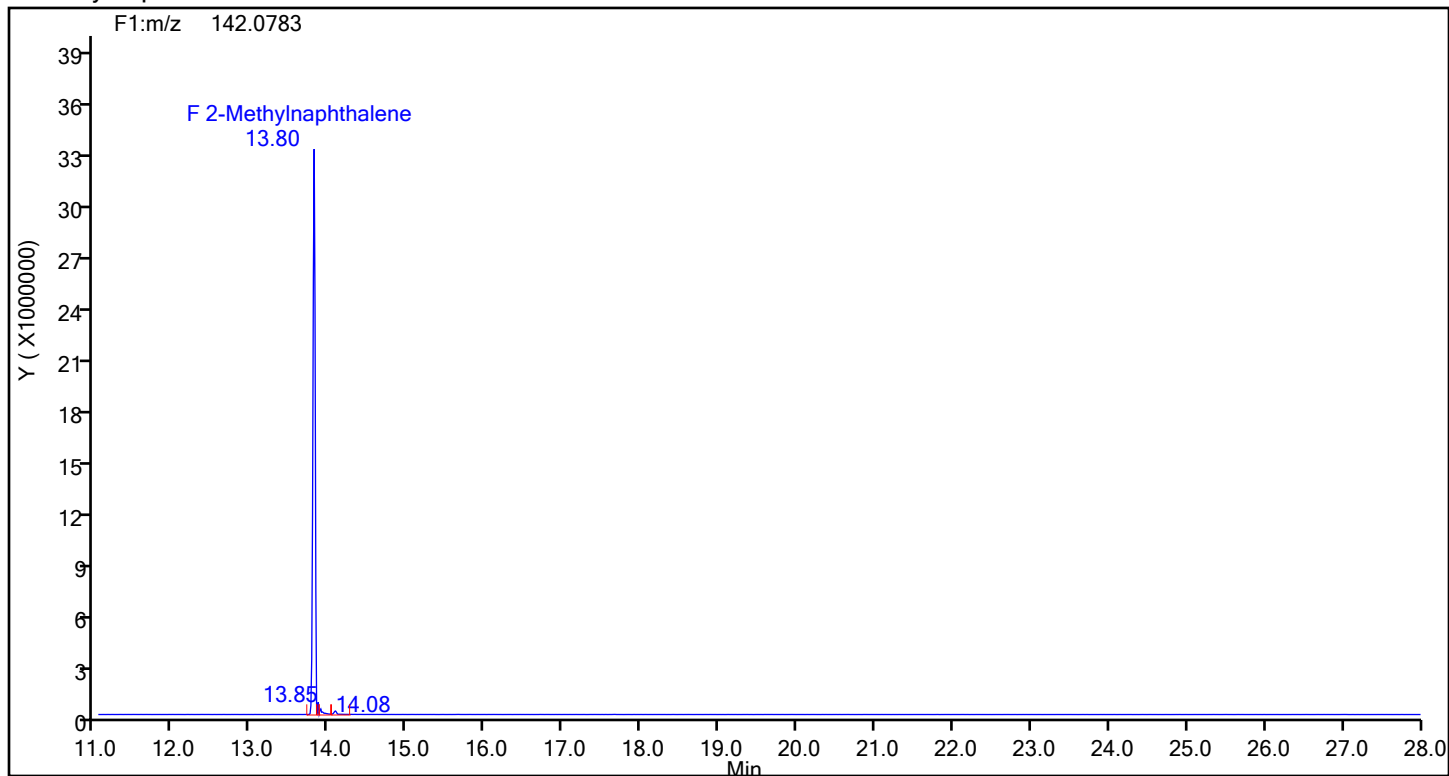
Naphthalene Standards



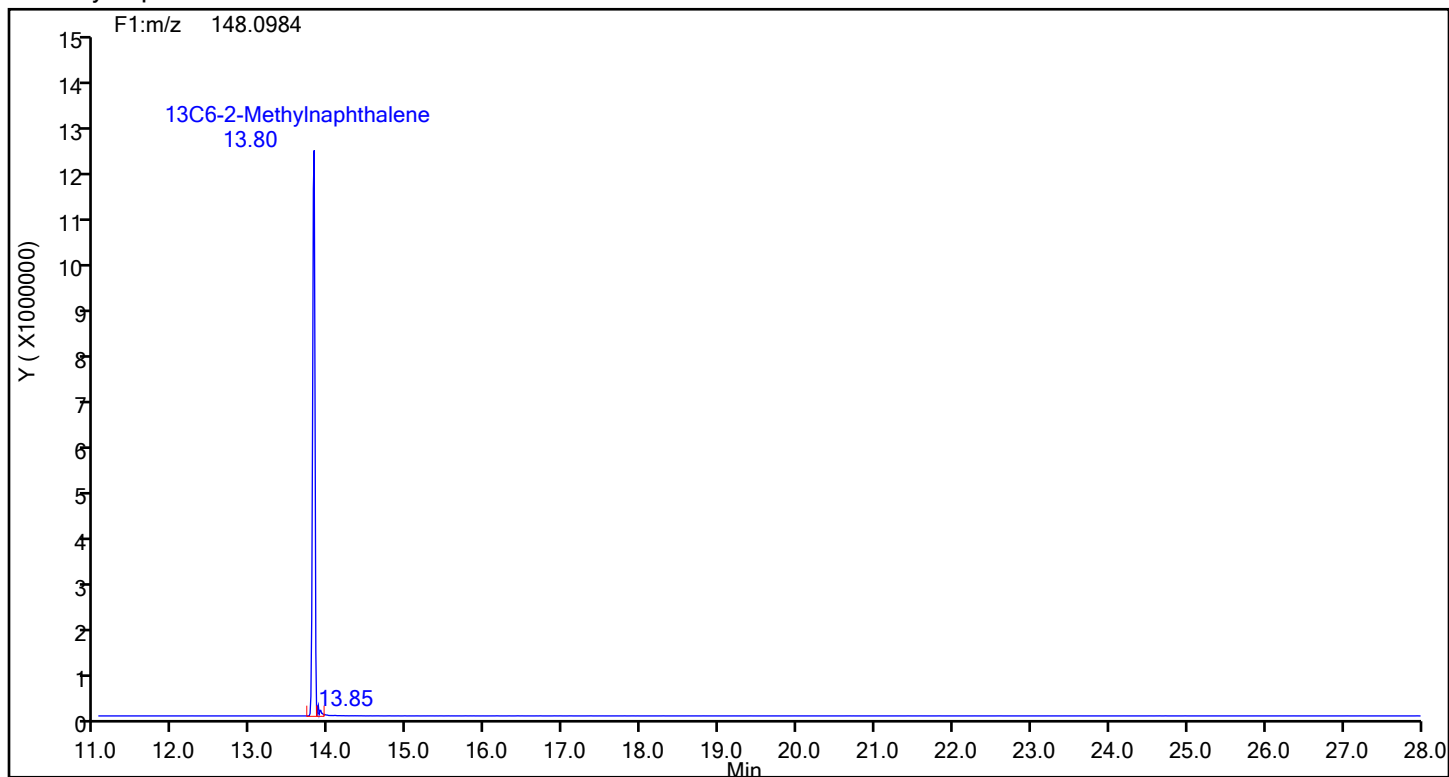
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2-Methylnaphthalene



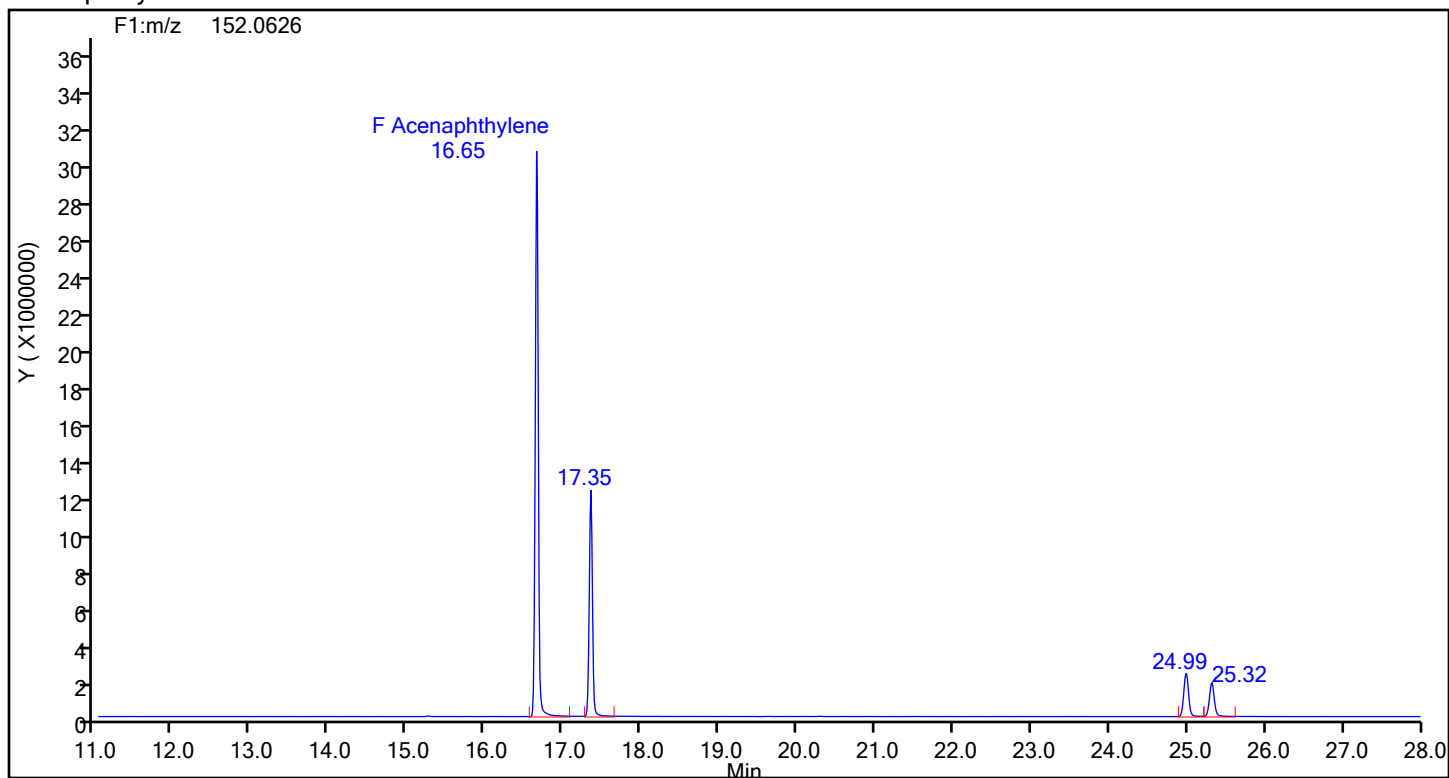
2-Methylnaphthalene Standards



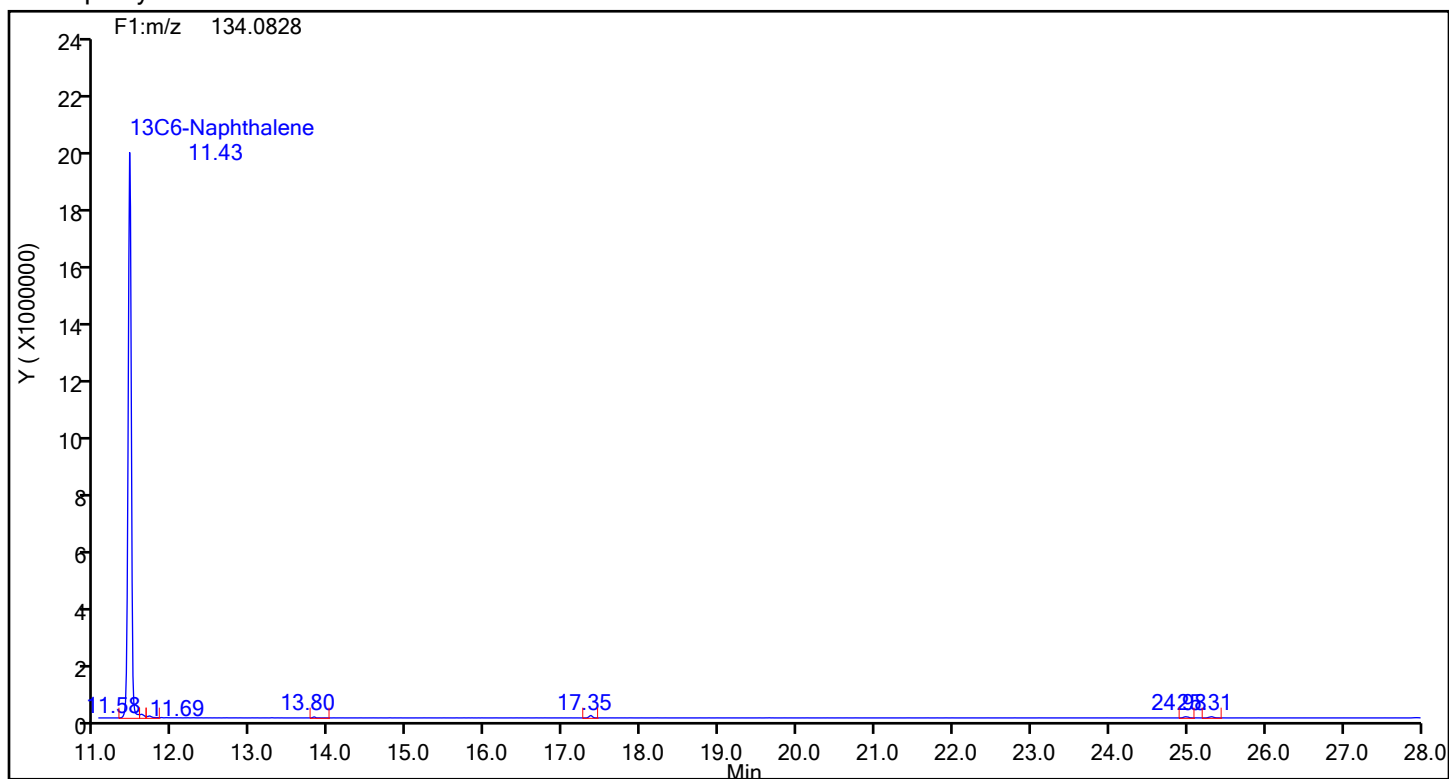
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Acenaphthylene

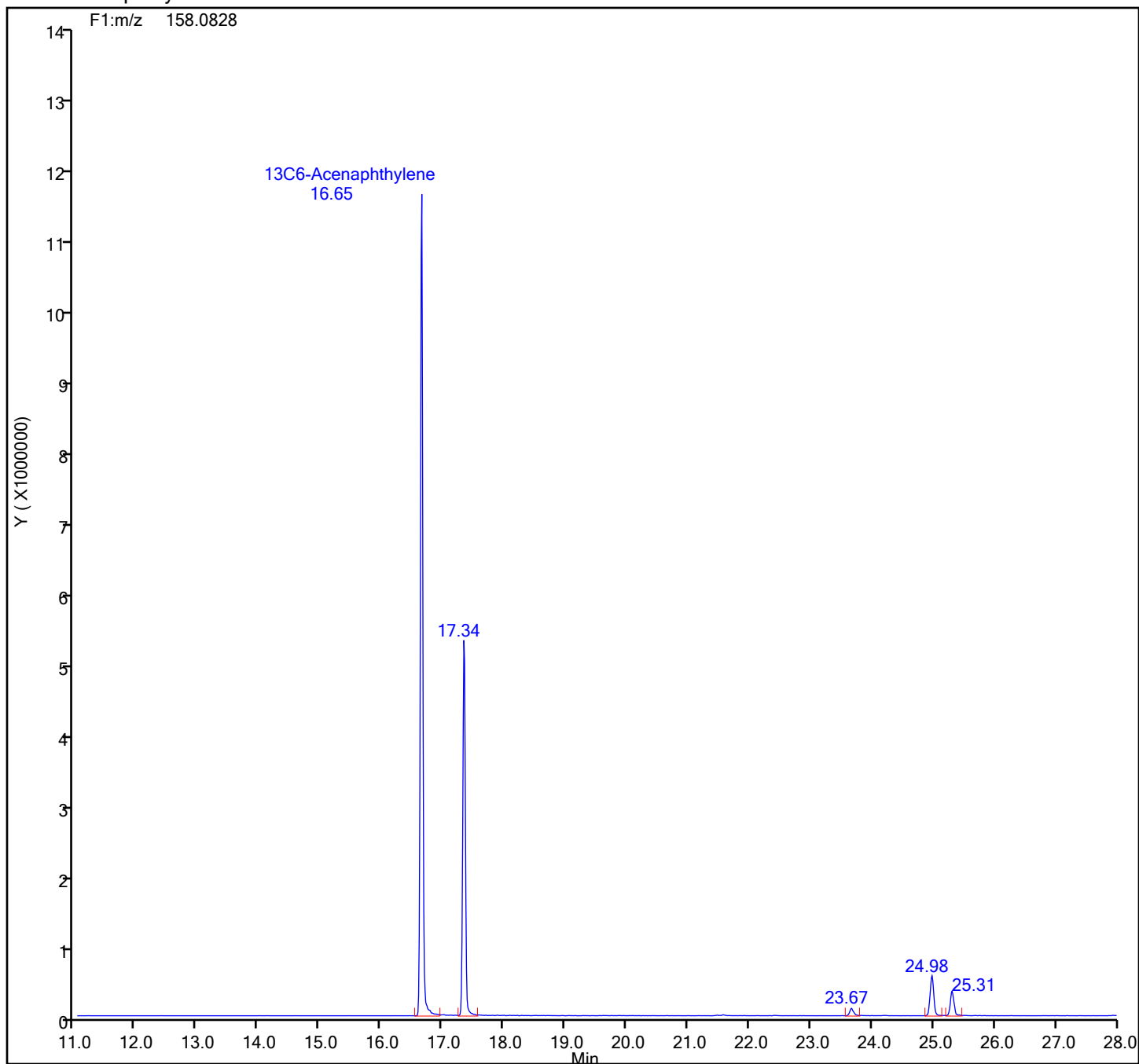


Acenaphthylene Standards



Eurofins Knoxville

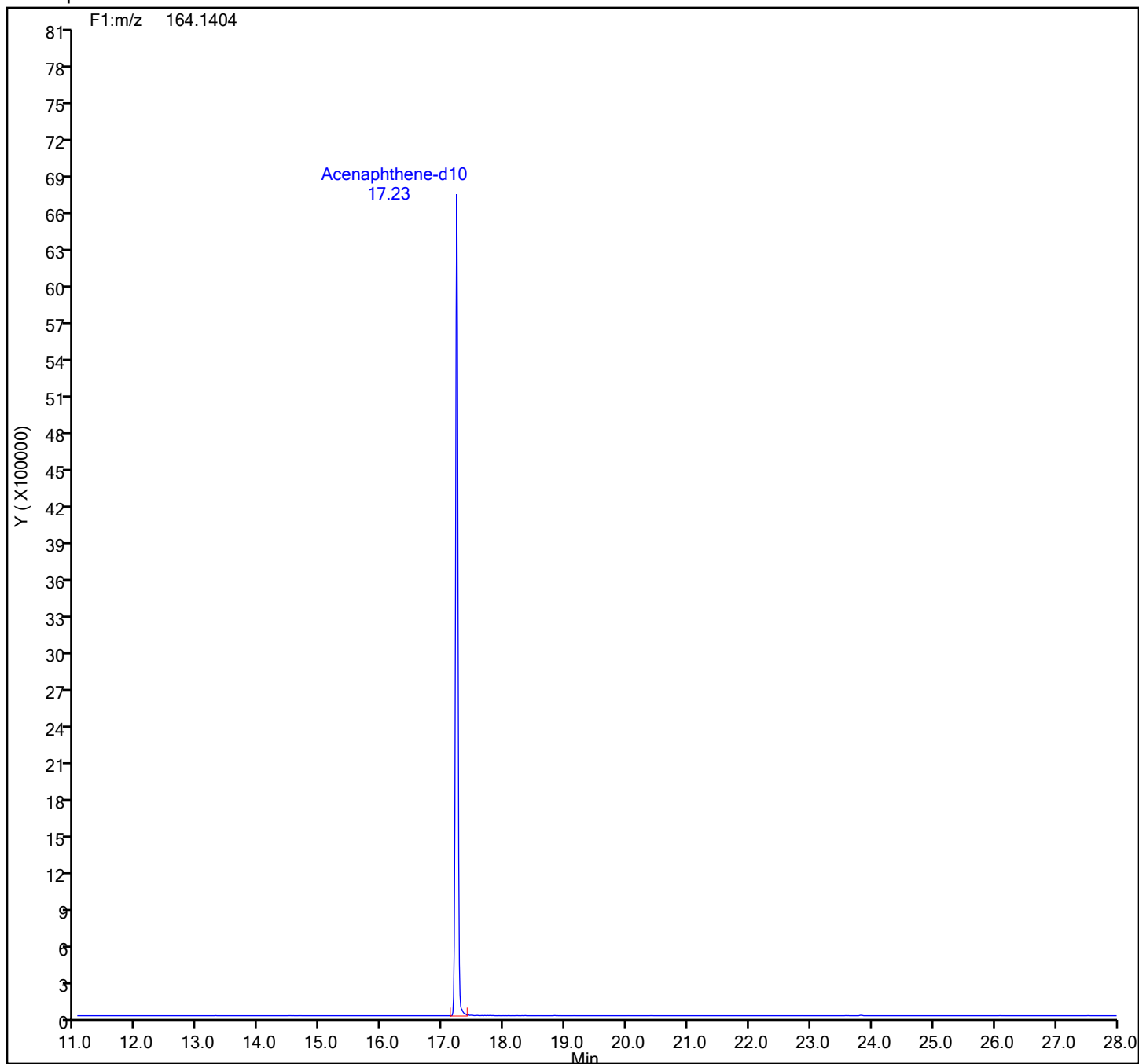
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13C6-Acenaphthylene Standards



Eurofins Knoxville

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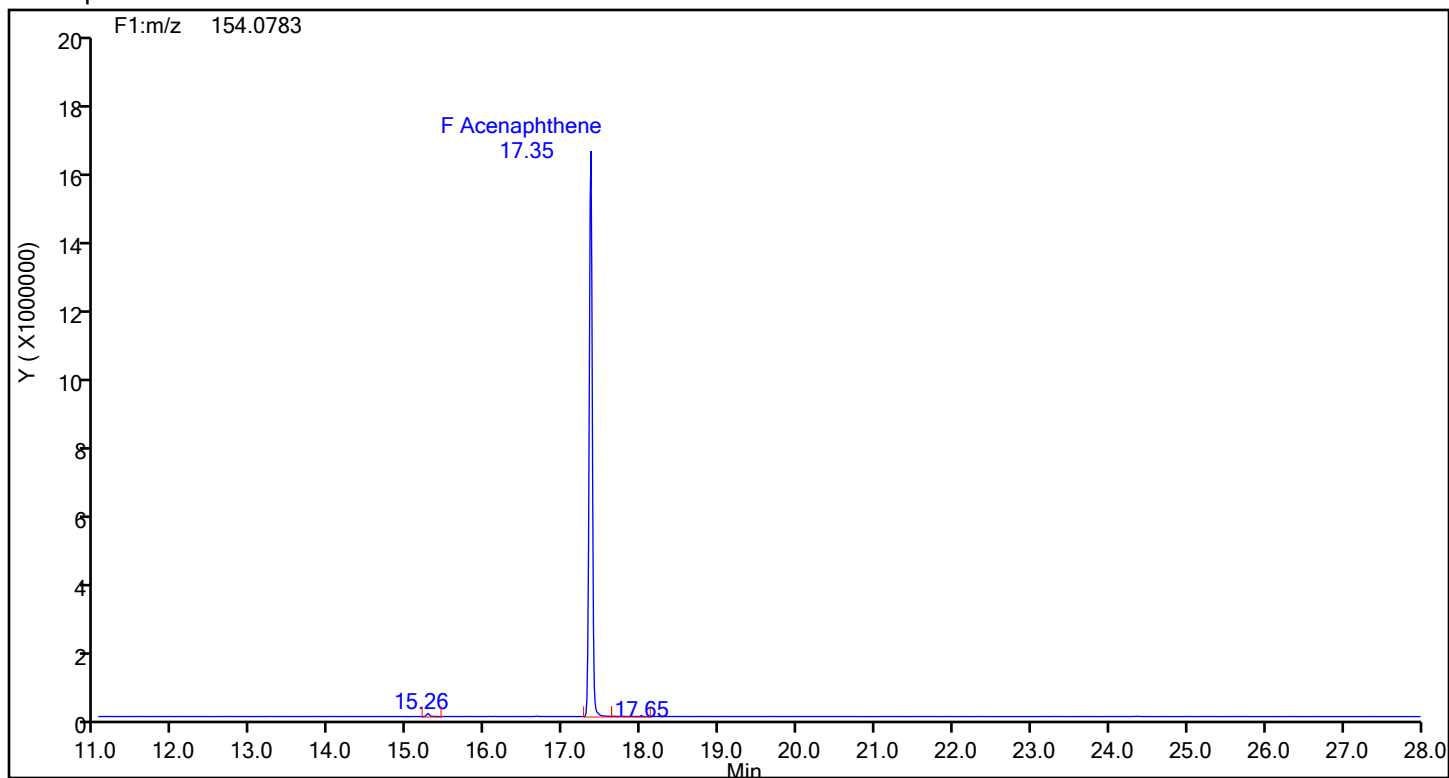
Acenaphthene-d10 Standards



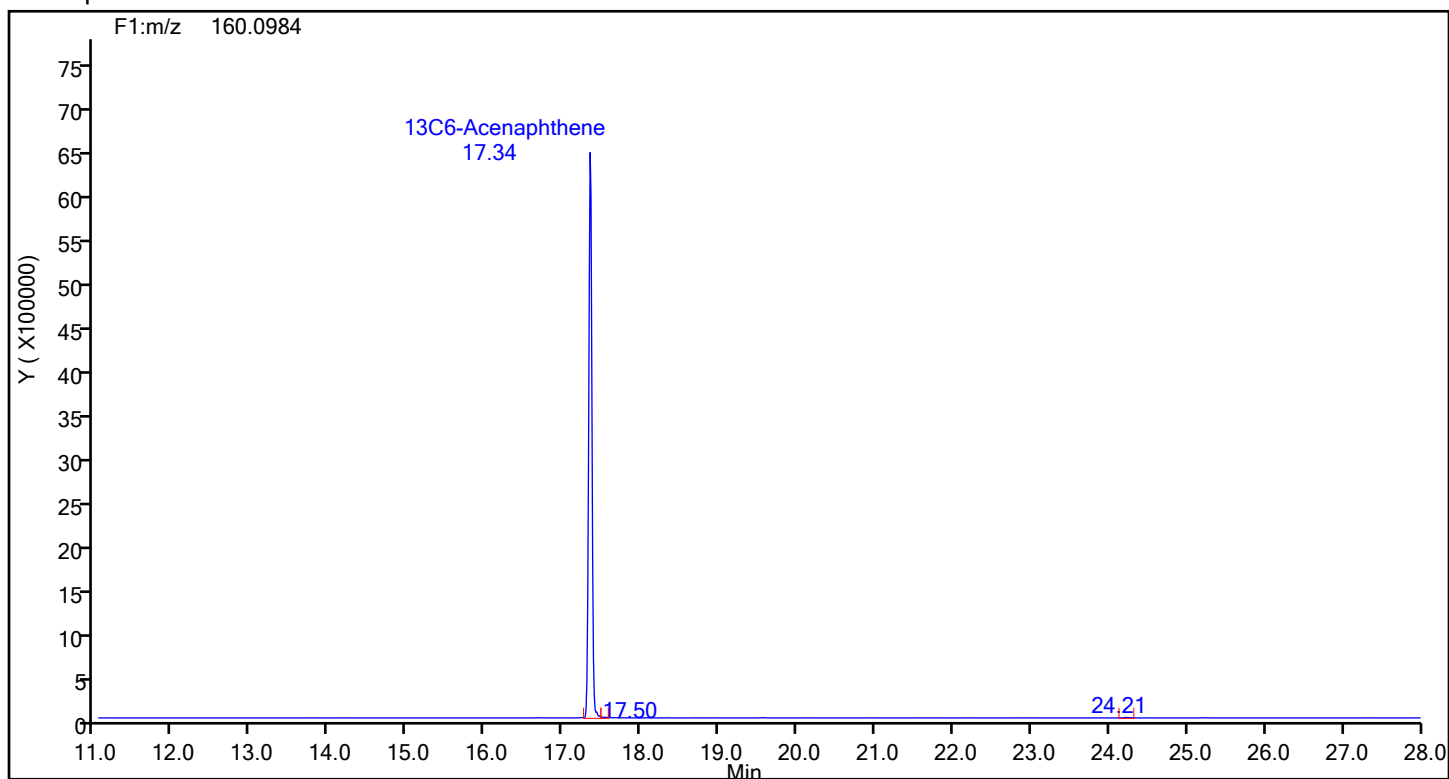
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Acenaphthene



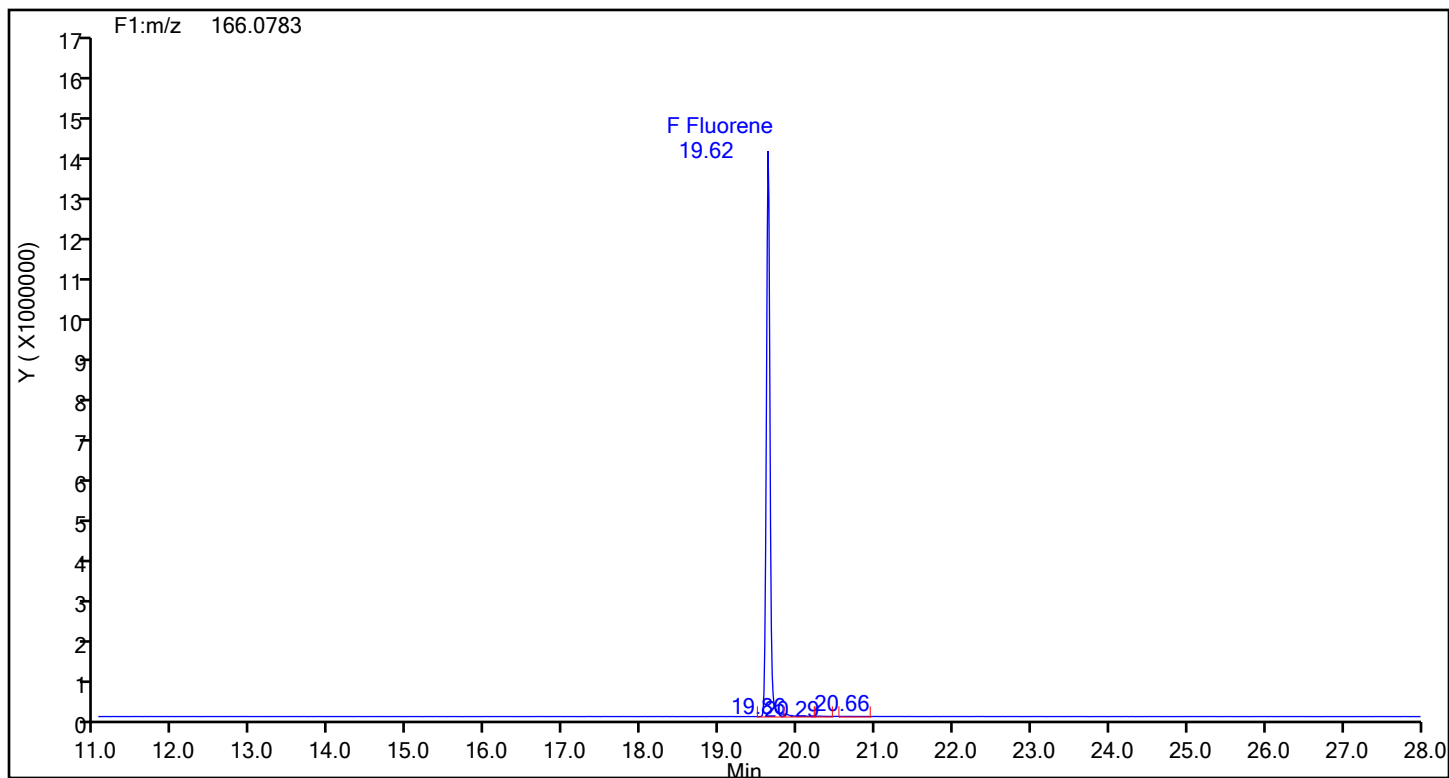
Acenaphthene Standards



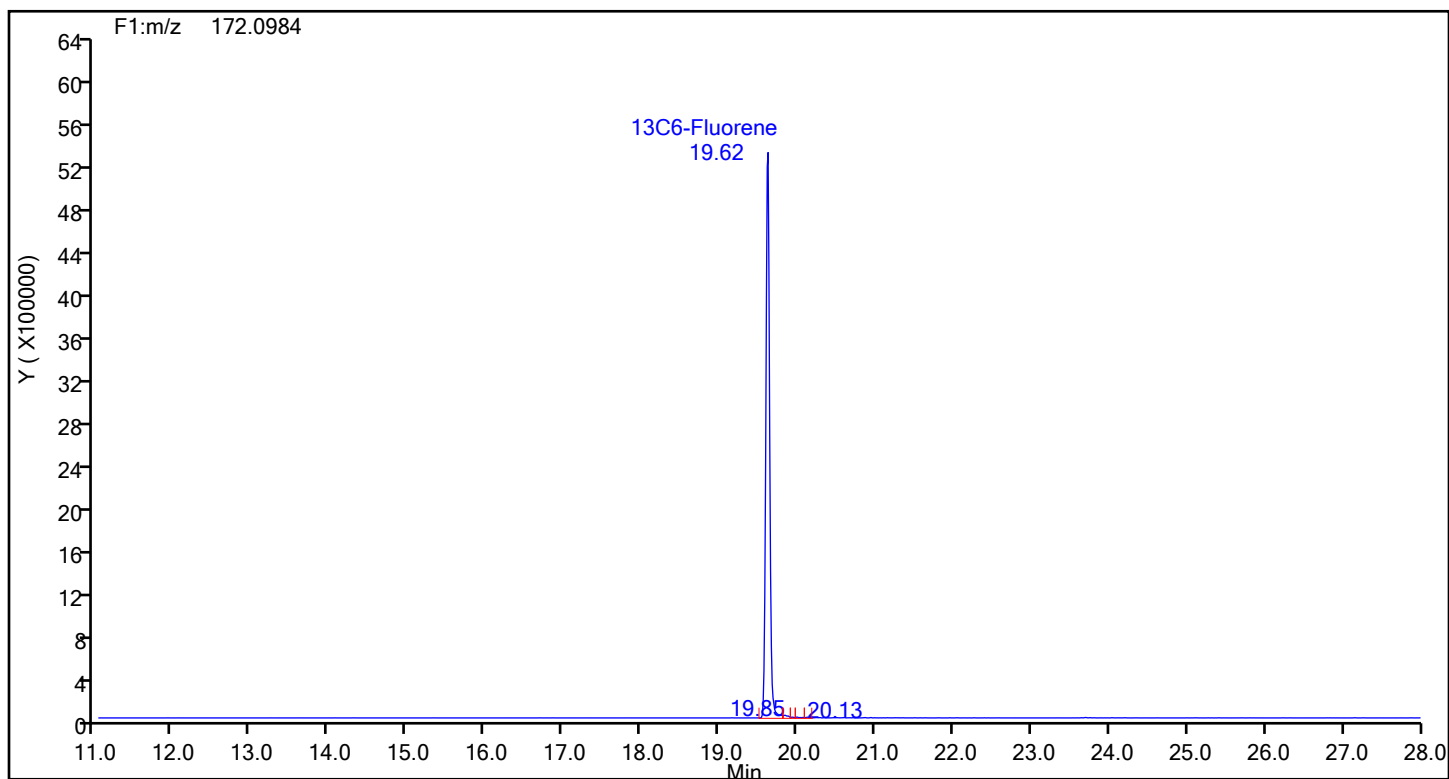
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



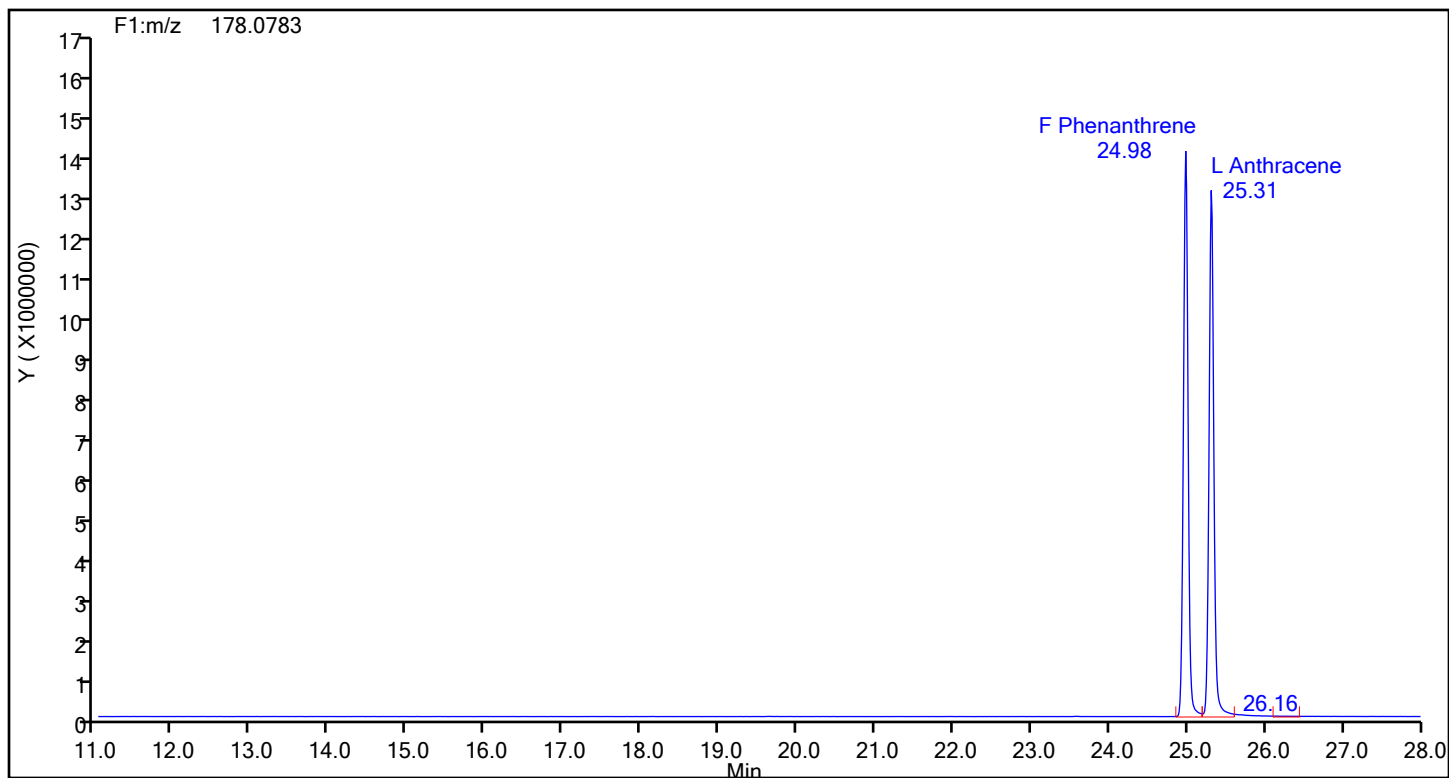
Fluorene Standards



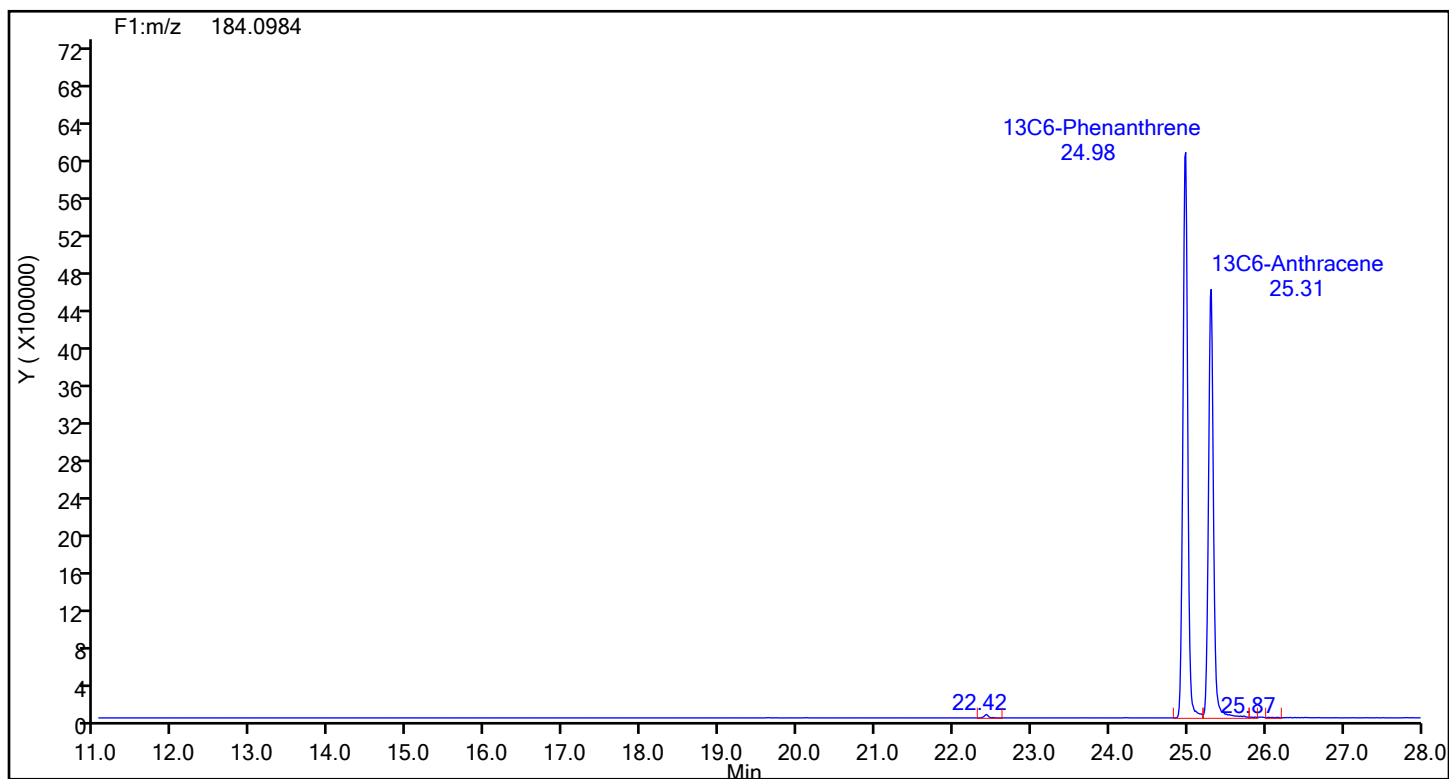
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

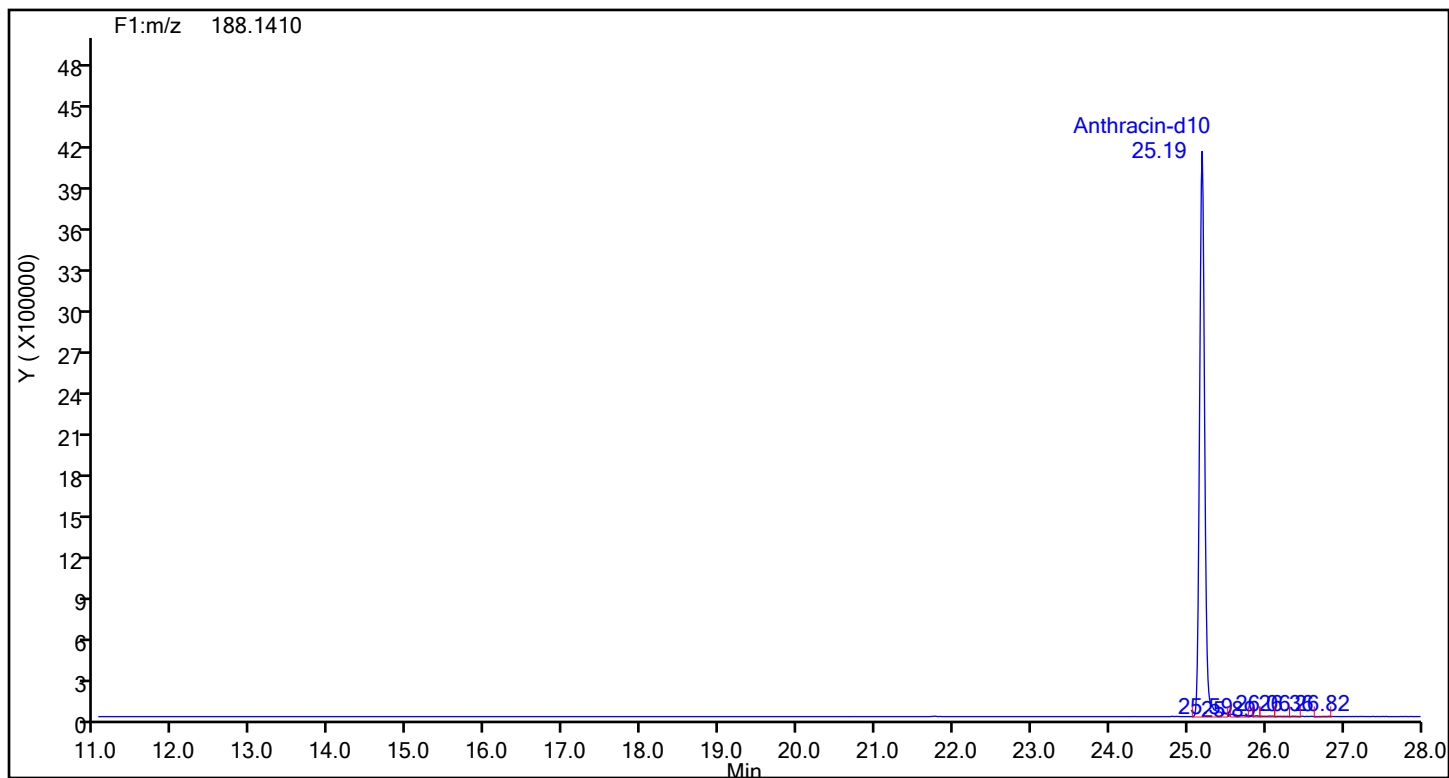


Phenanthrene Standards

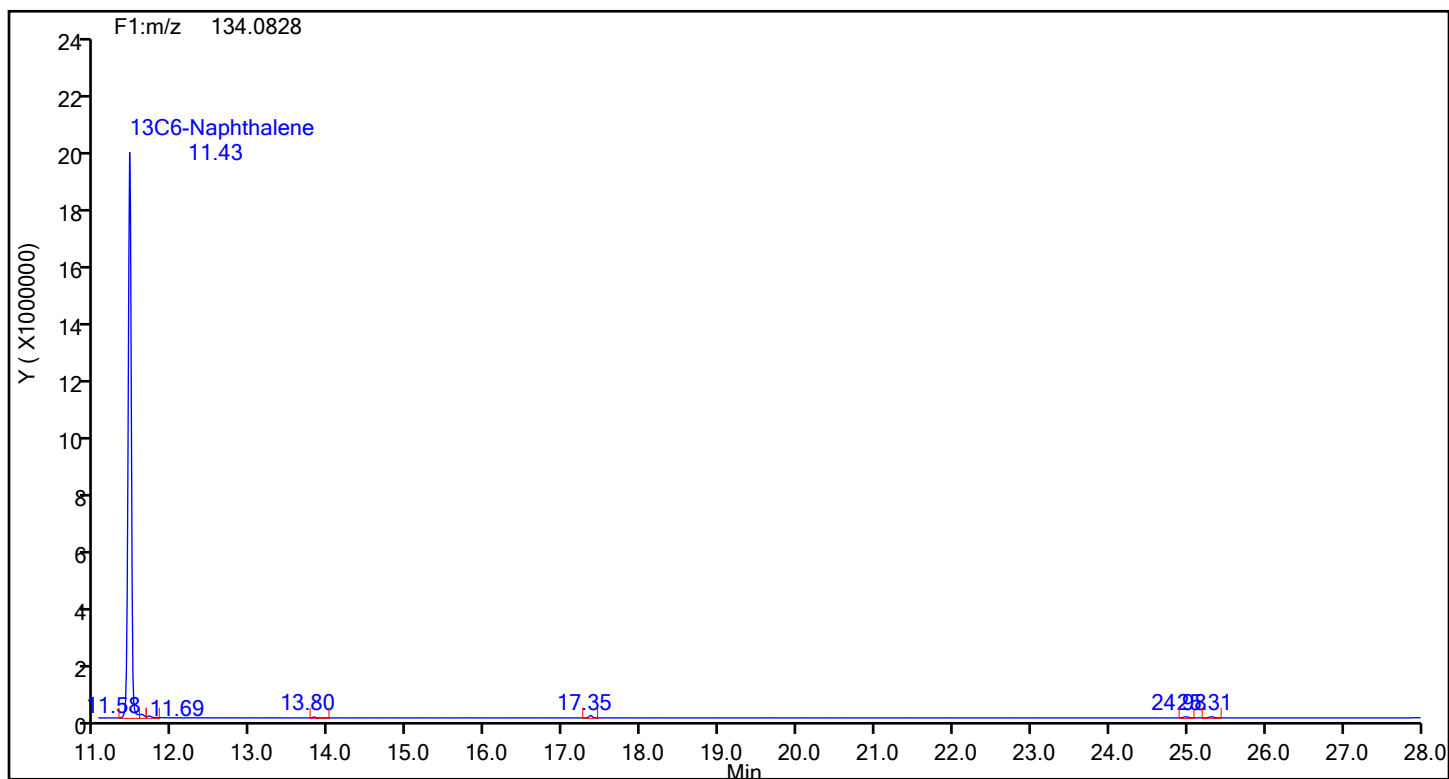


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Anthracin-d10

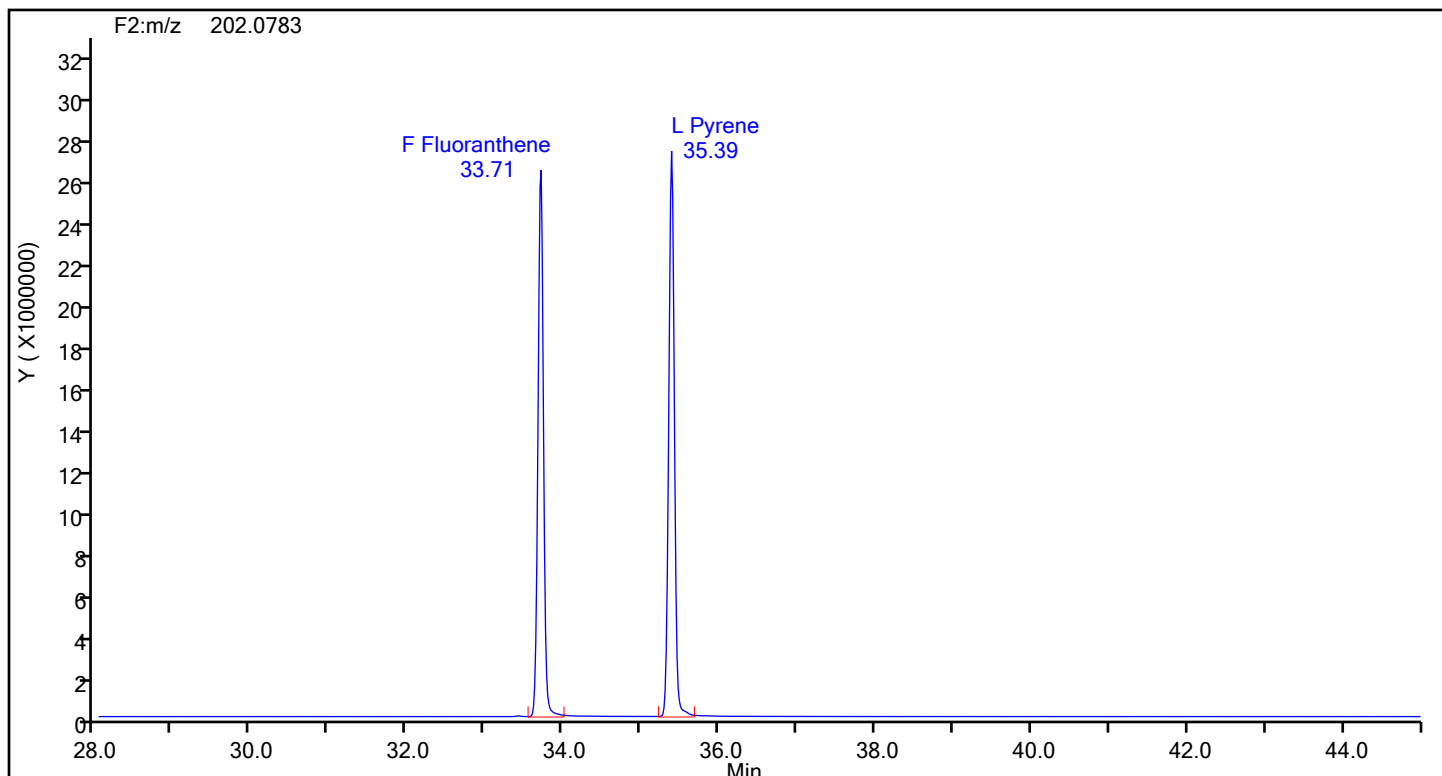


Anthracin-d10 Standards

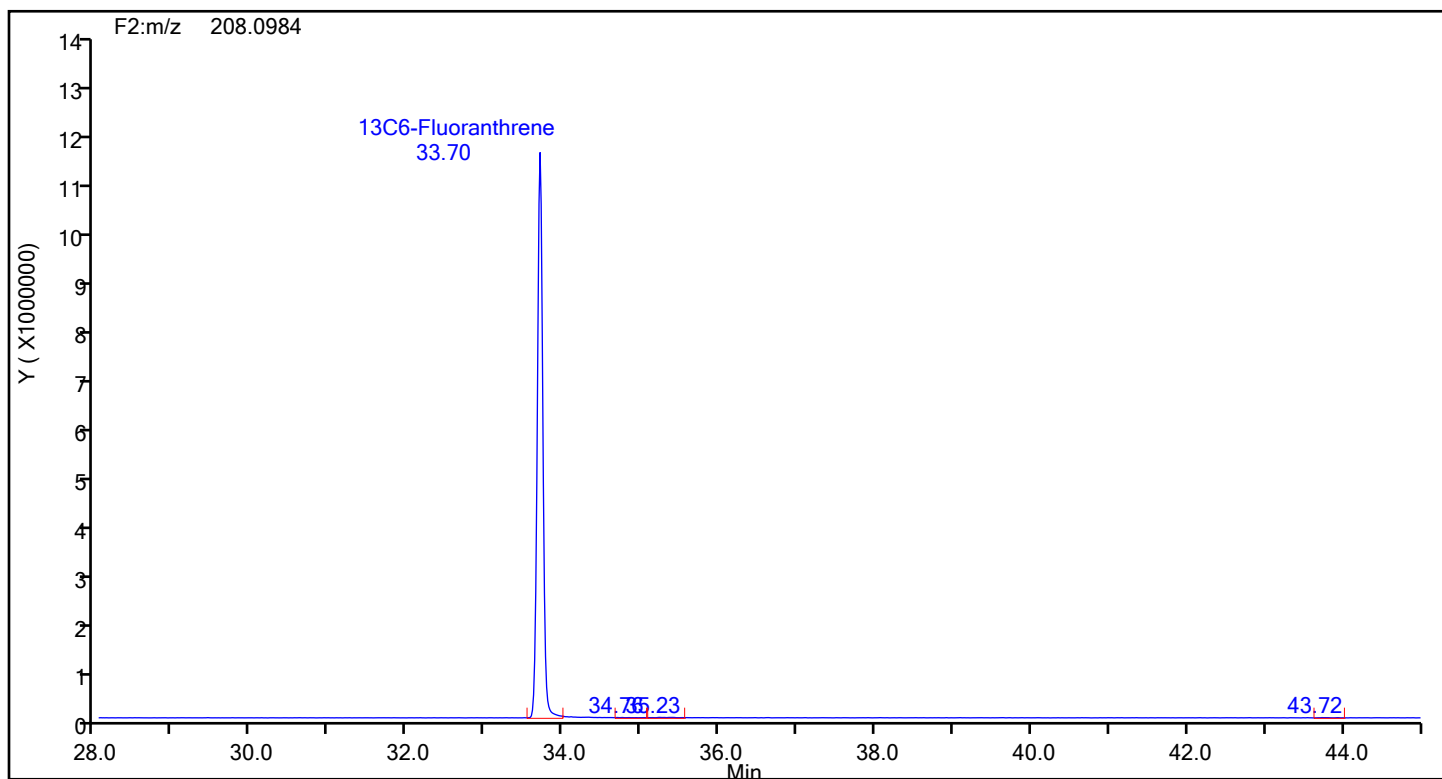


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Fluoranthene



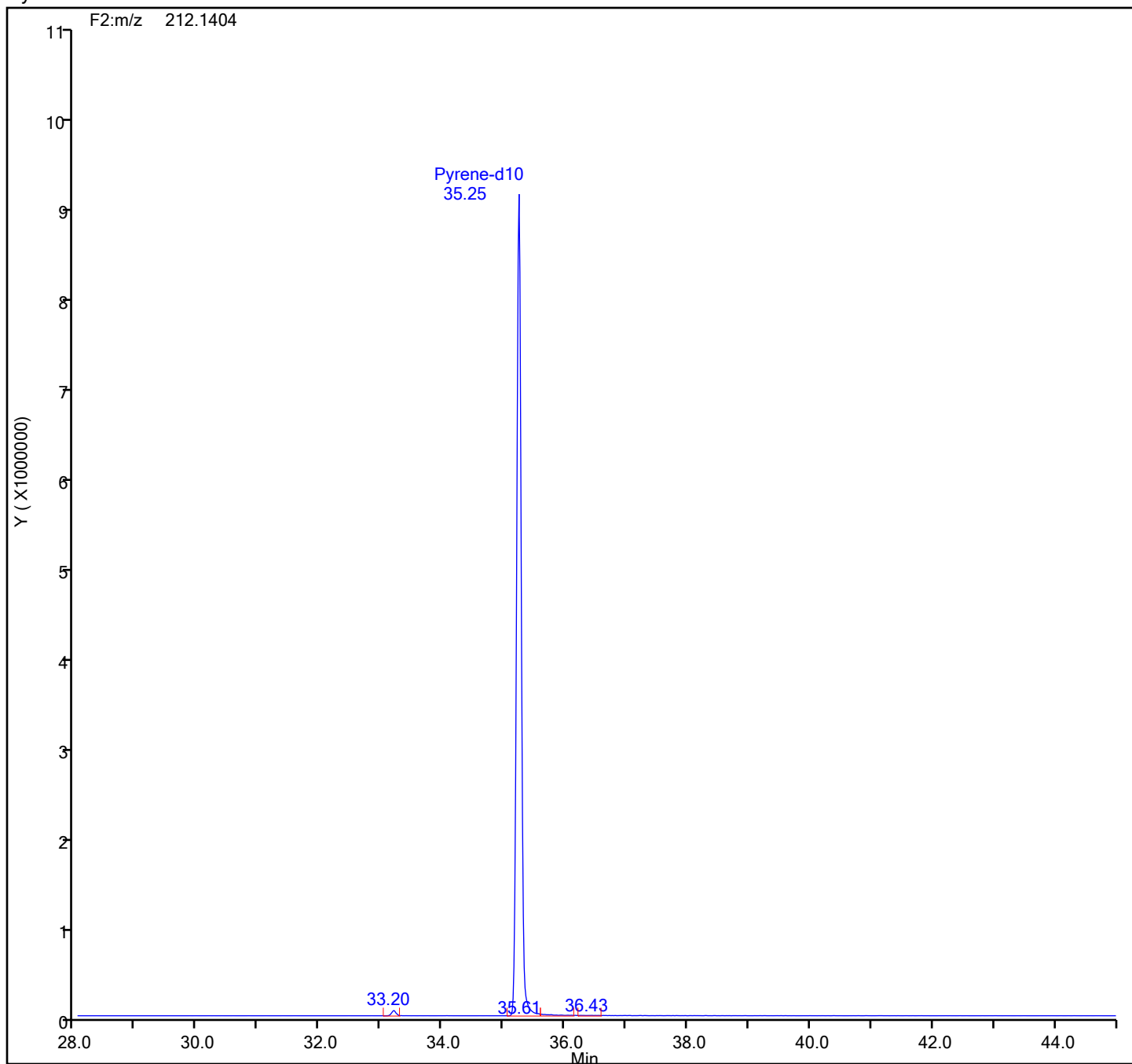
Fluoranthene Standards



Eurofins Knoxville

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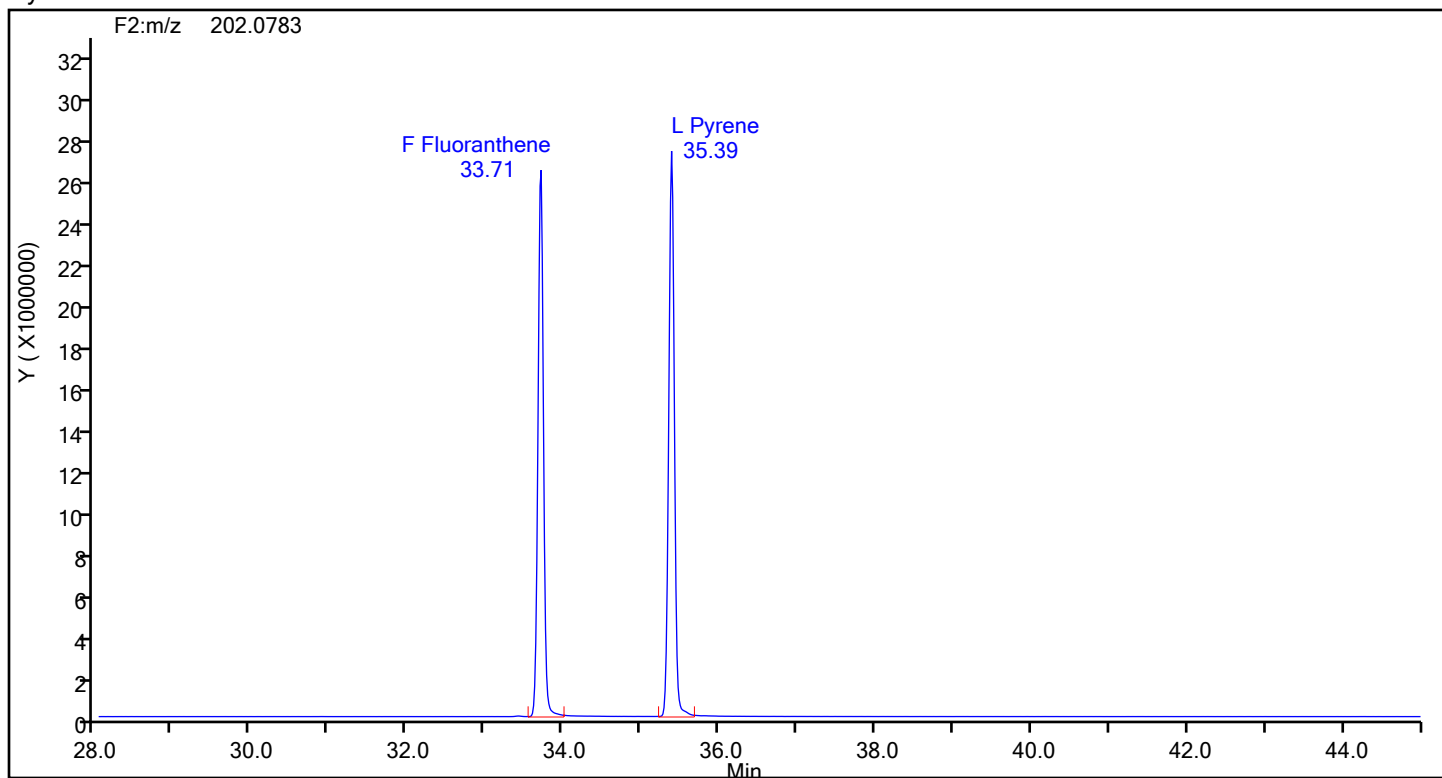
Pyrene-d10 Standards



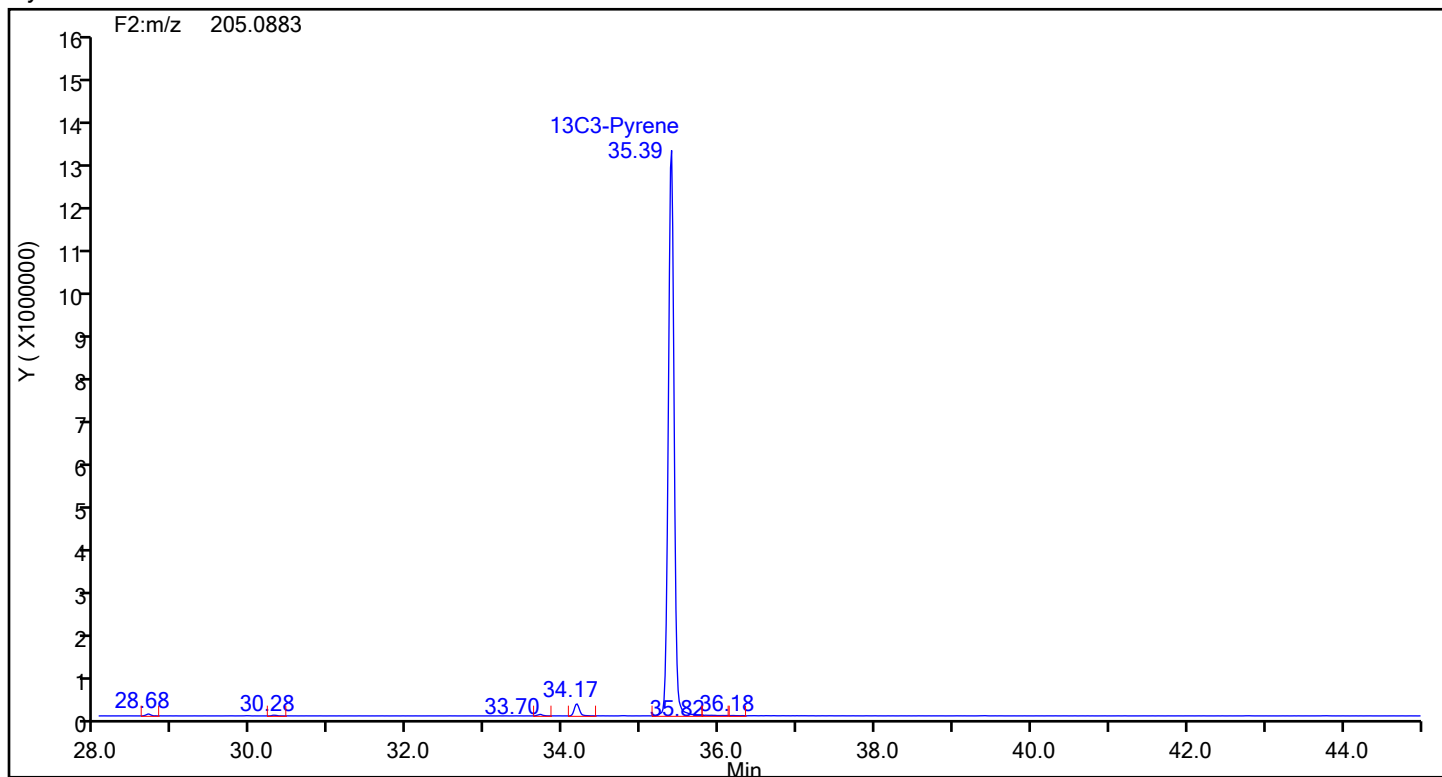
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Pyrene

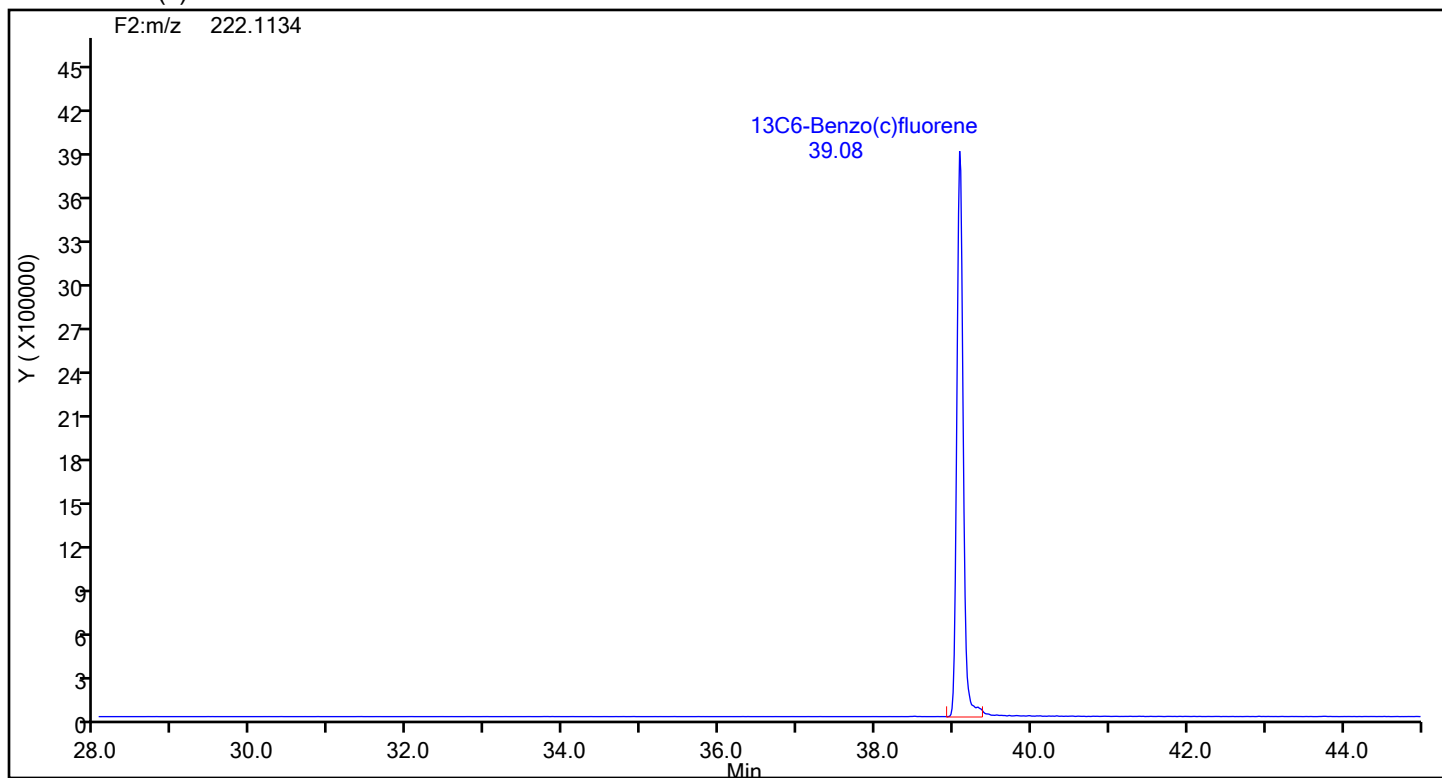


Pyrene Standards

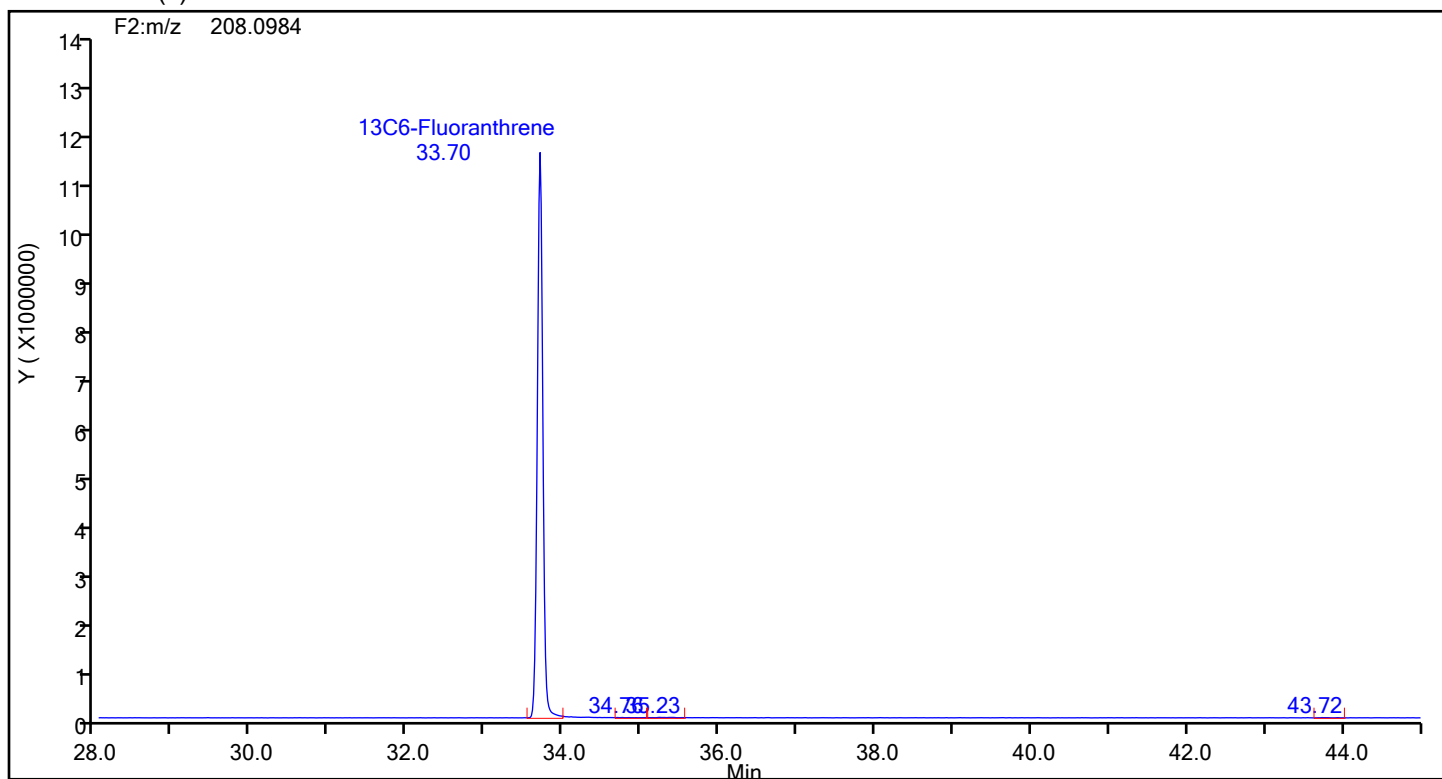


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Benzo(c)fluorene



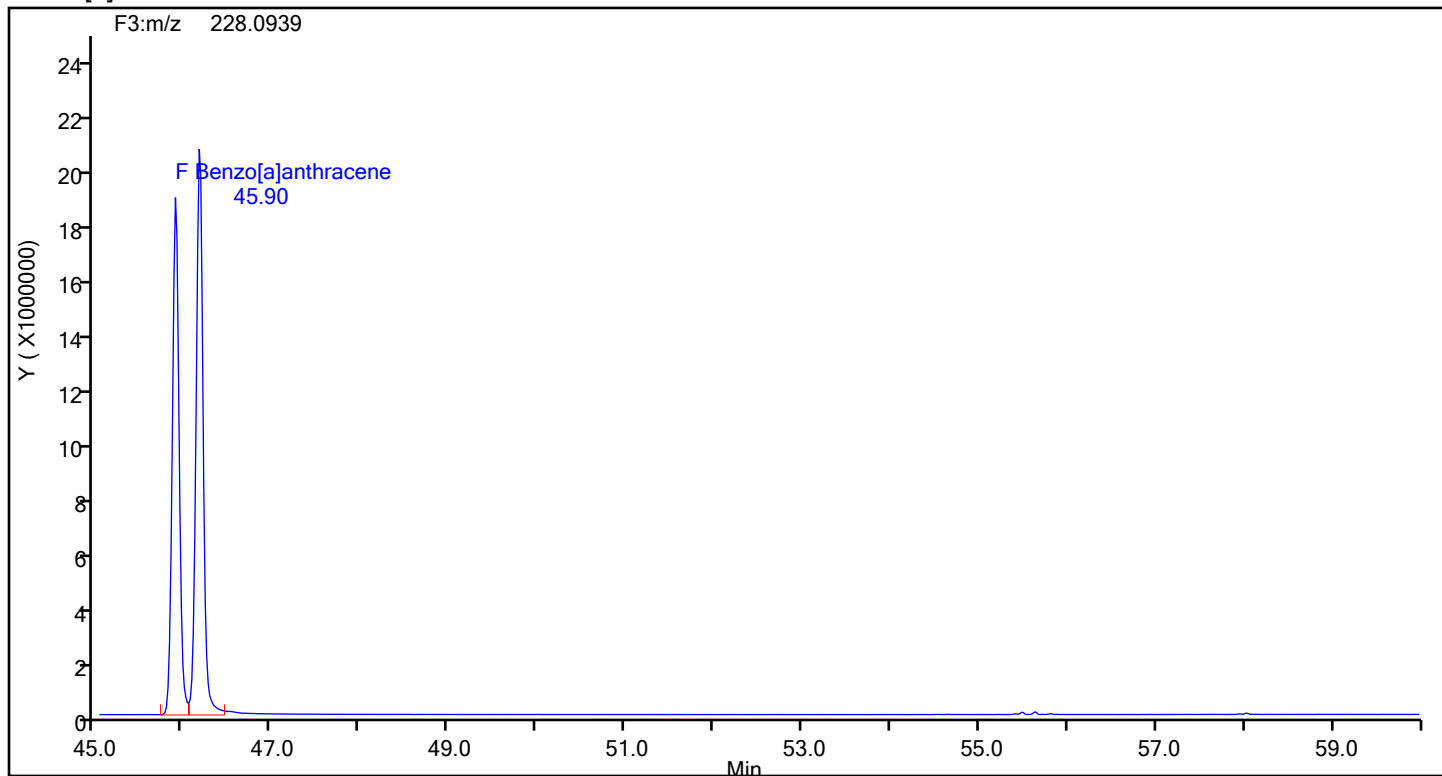
13C6-Benzo(c)fluorene Standards



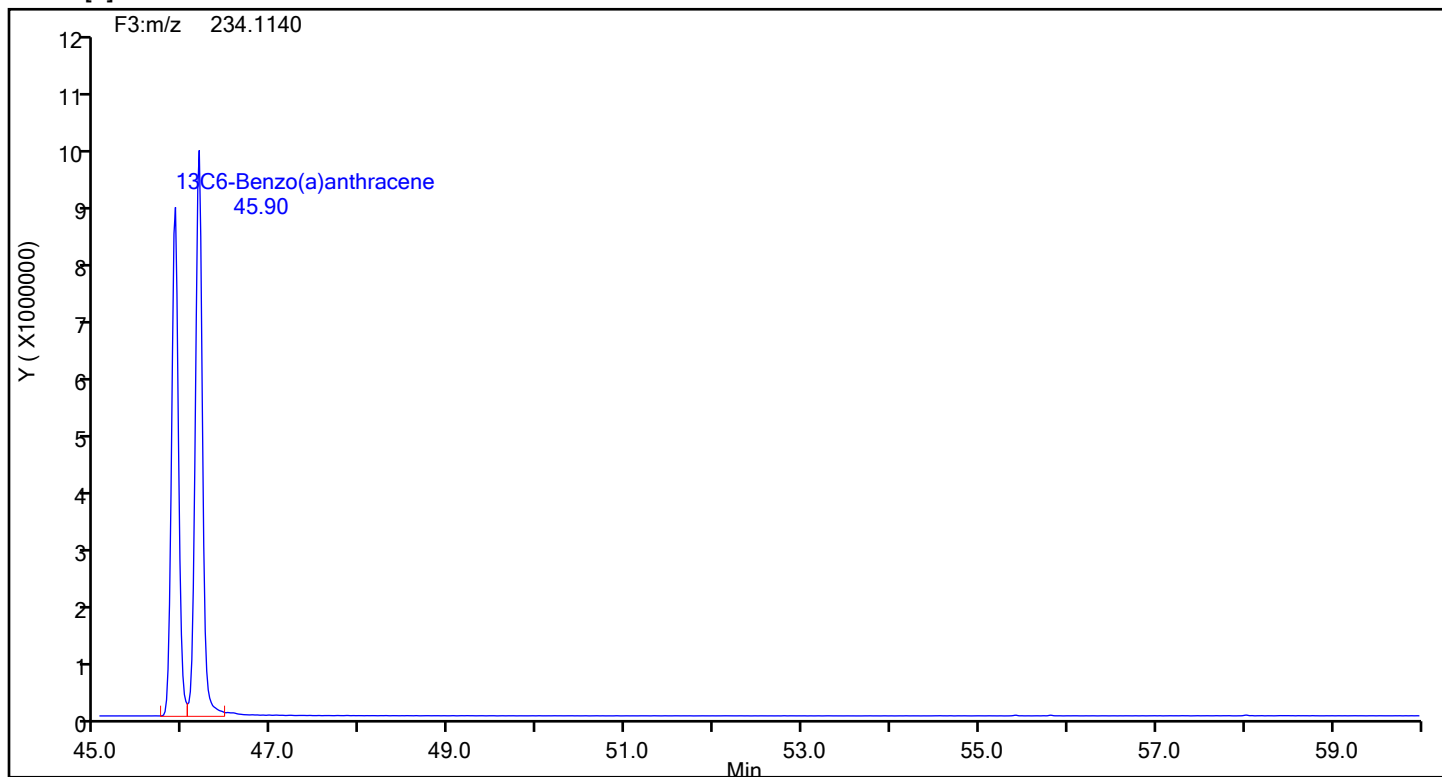
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



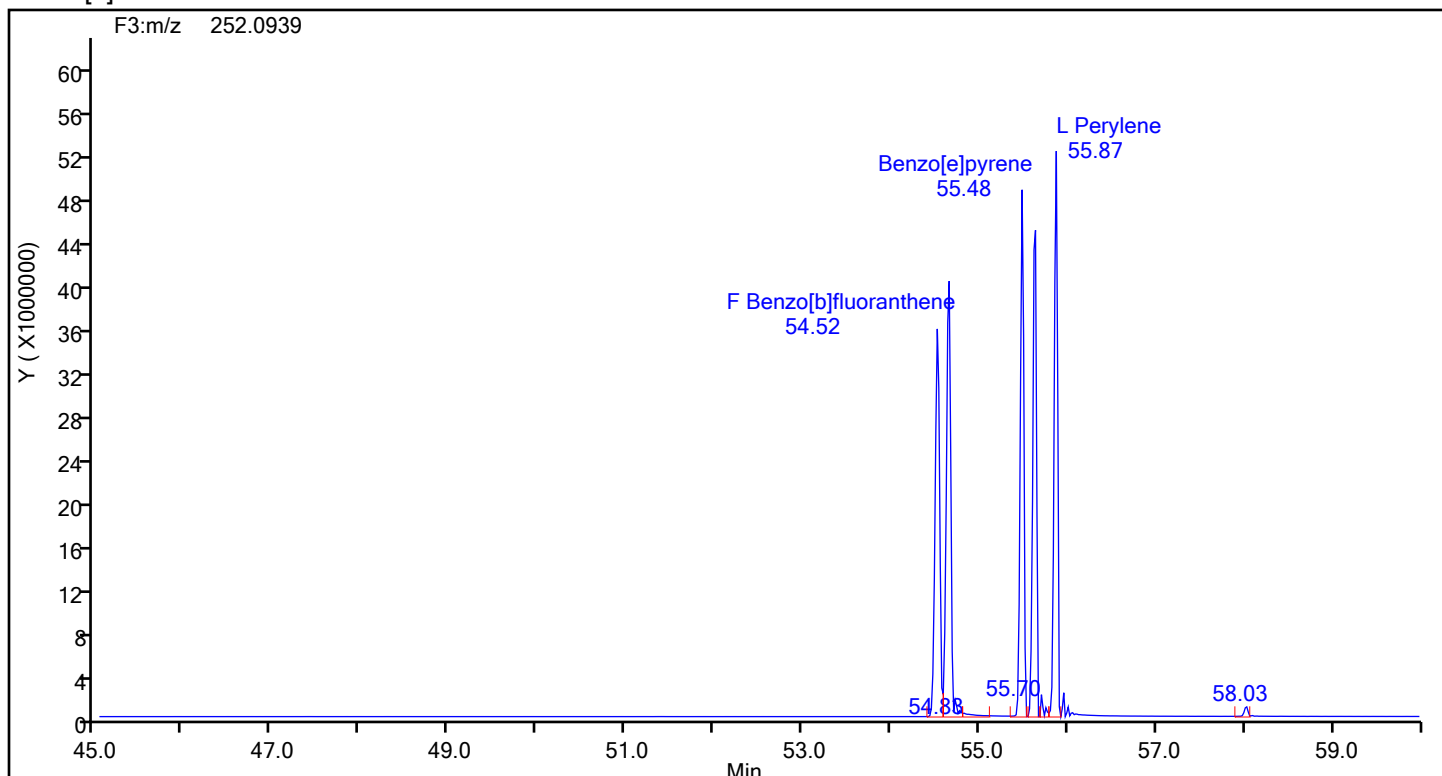
Benzo[a]anthracene Standards



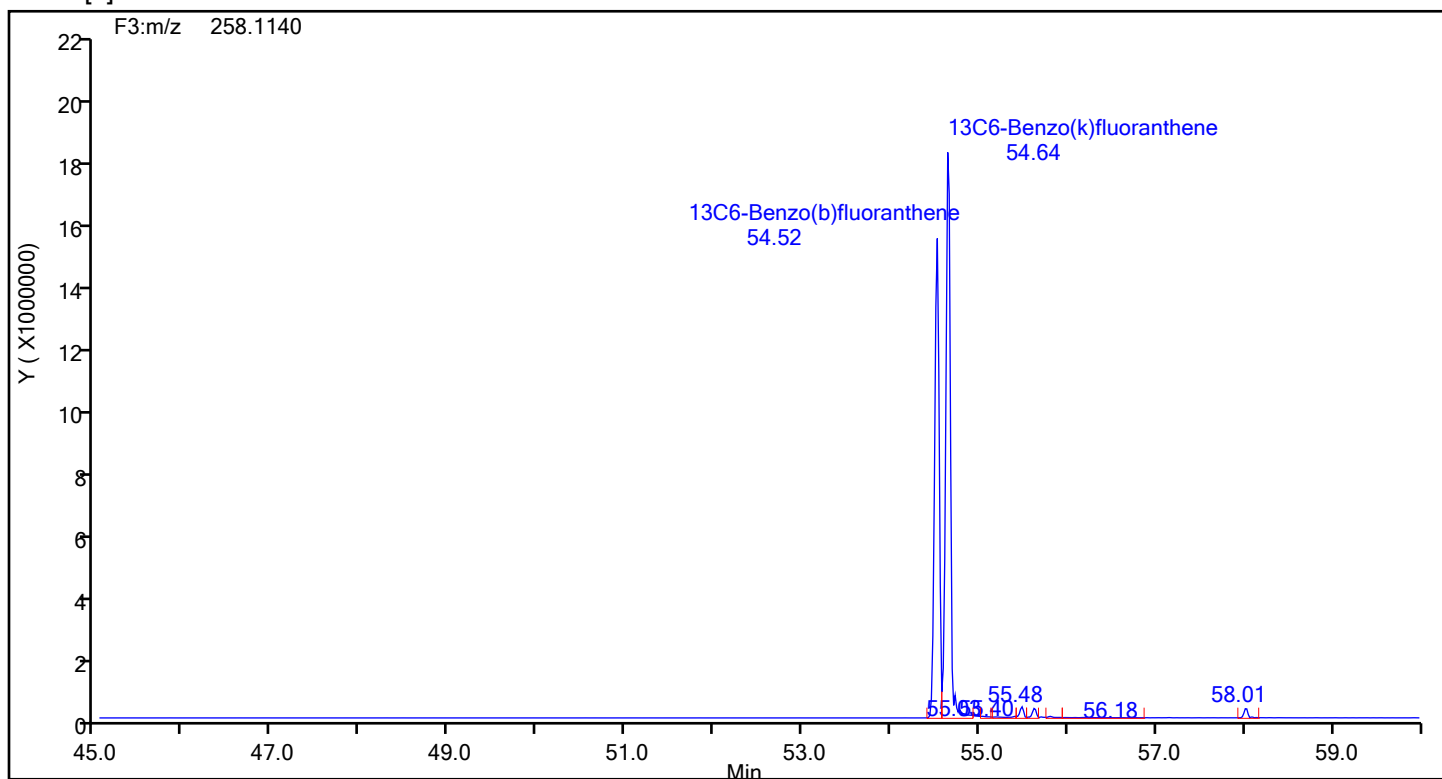
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



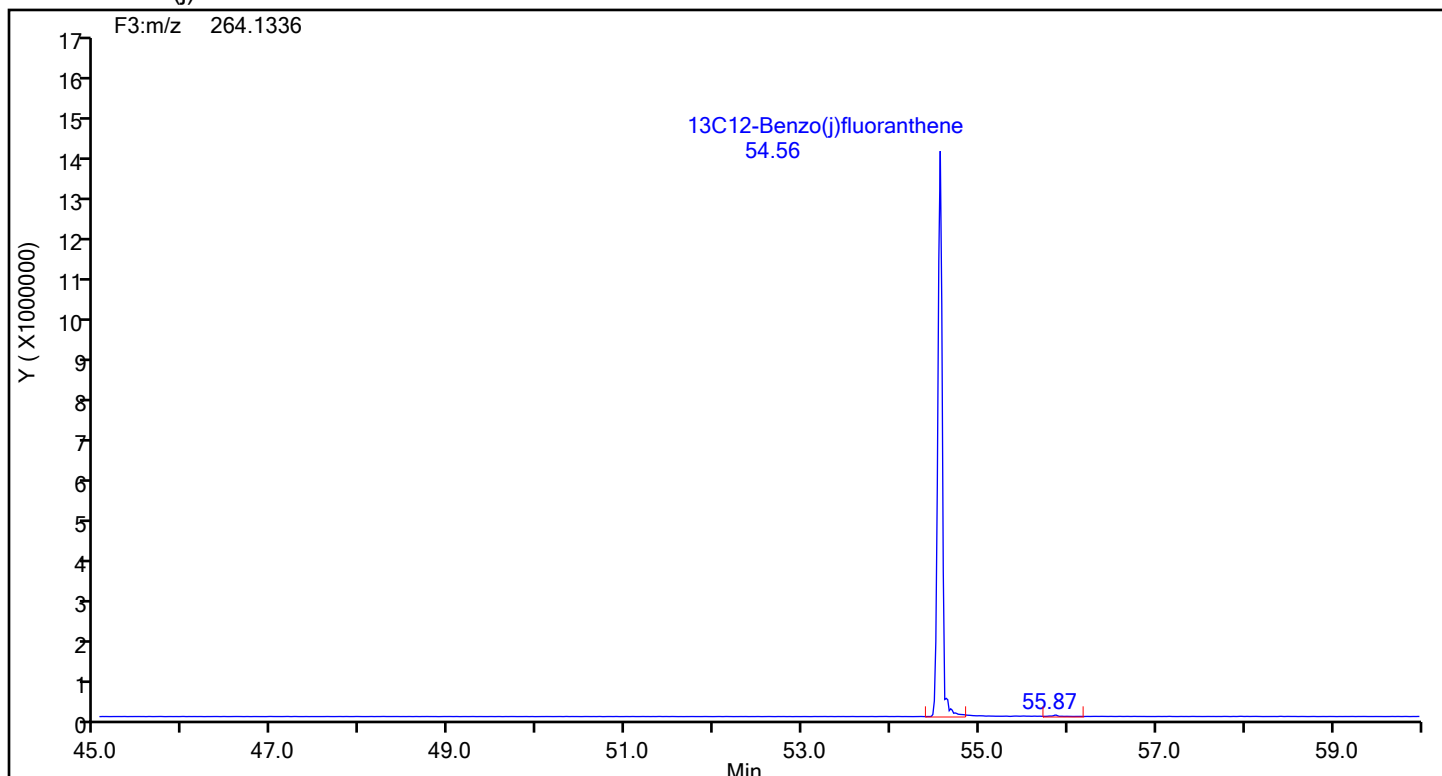
Benzo[b]fluoranthene Standards



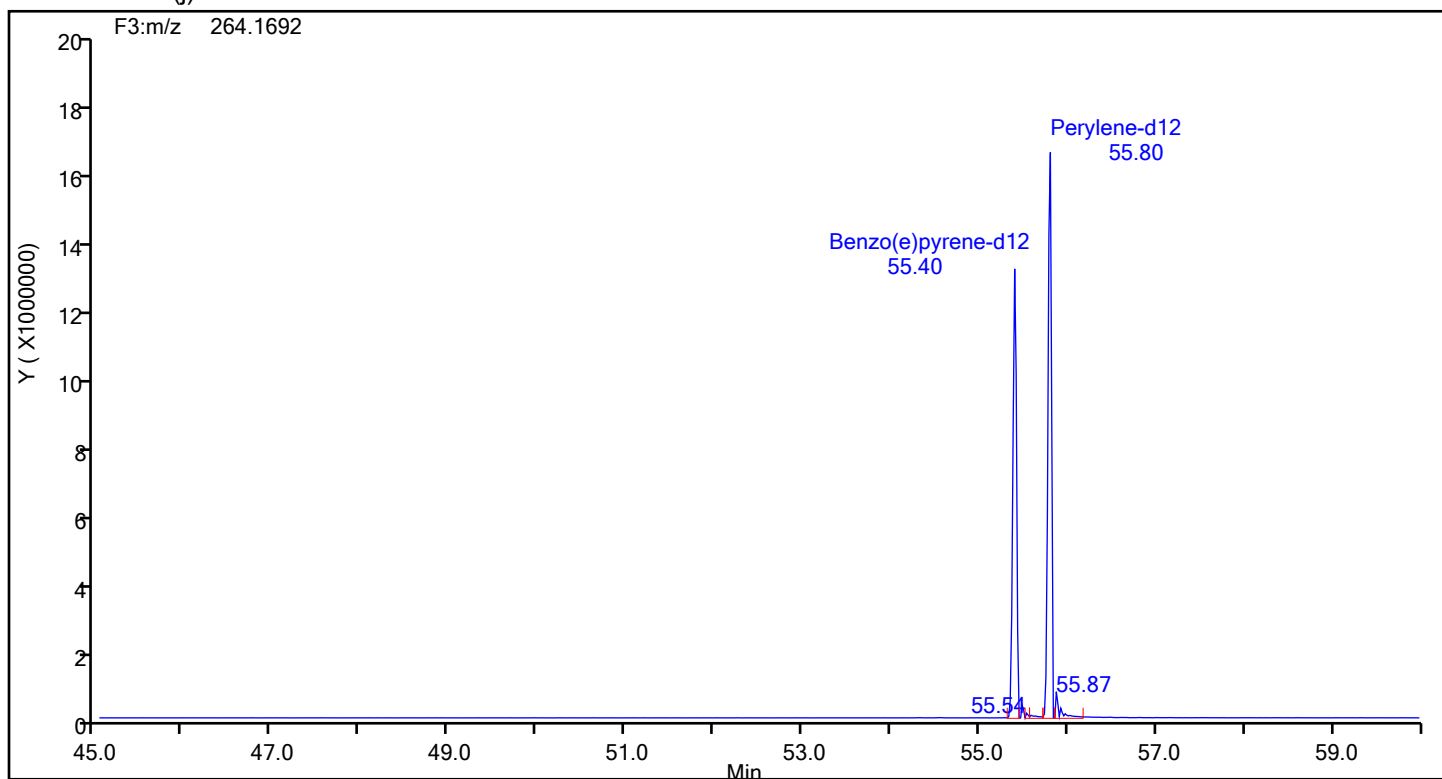
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



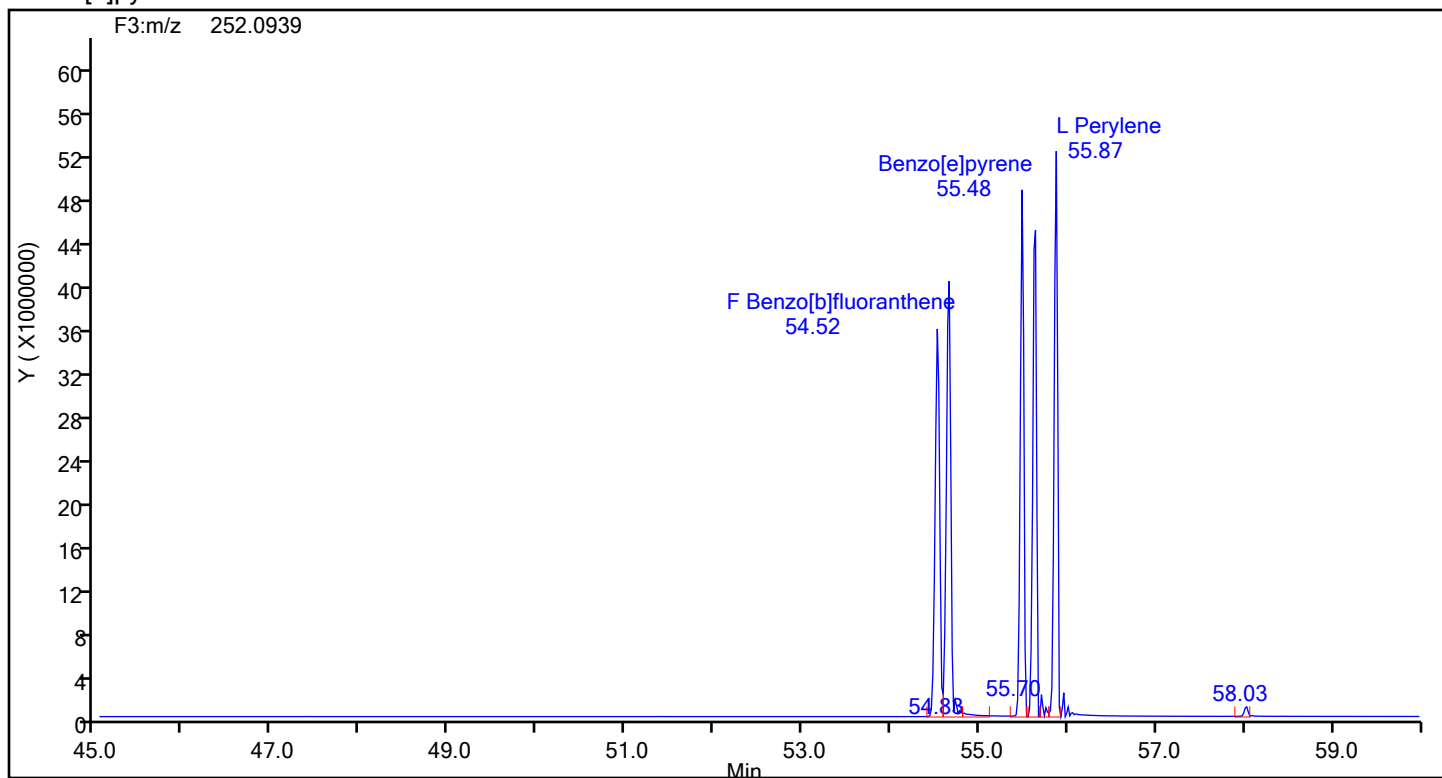
13C12-Benzo(j)fluoranthene Standards



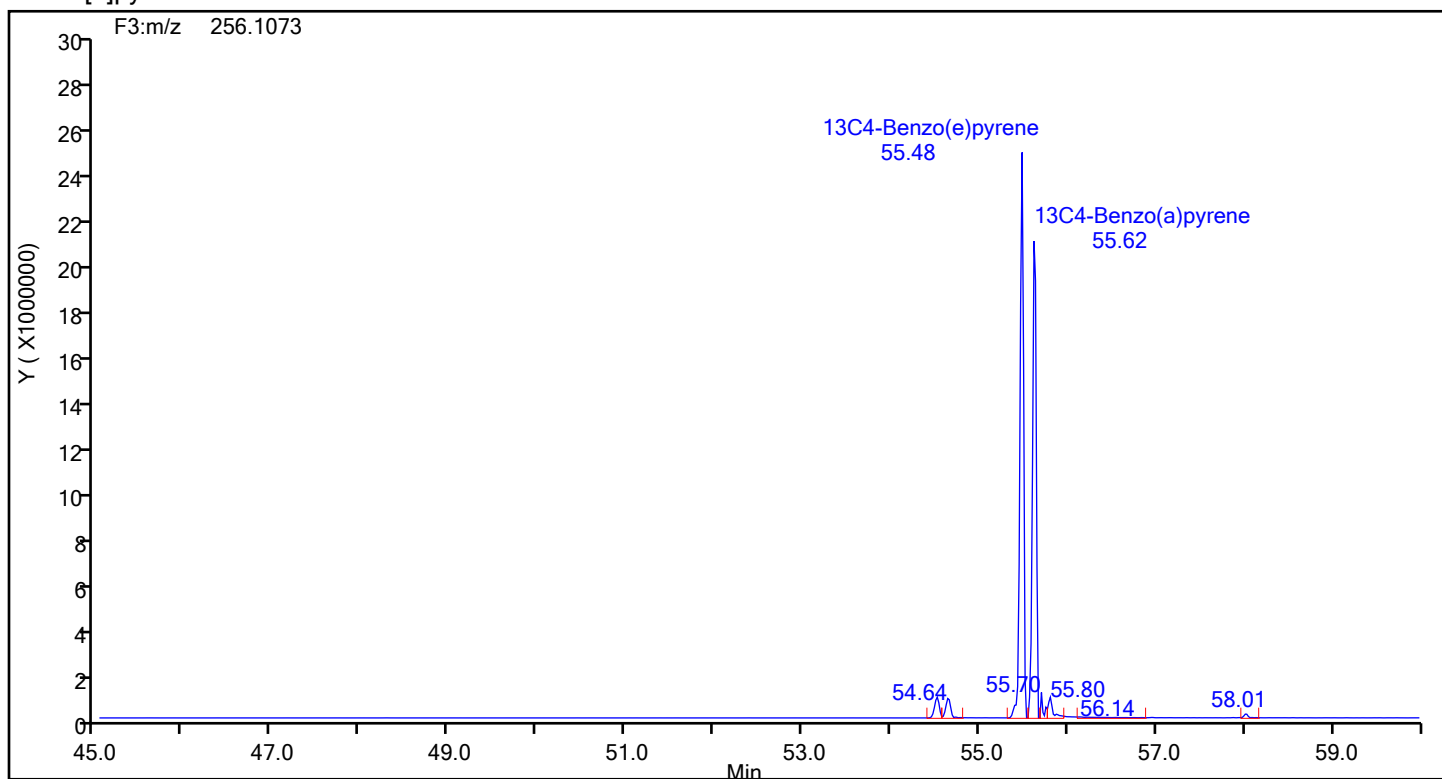
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Benzo[e]pyrene



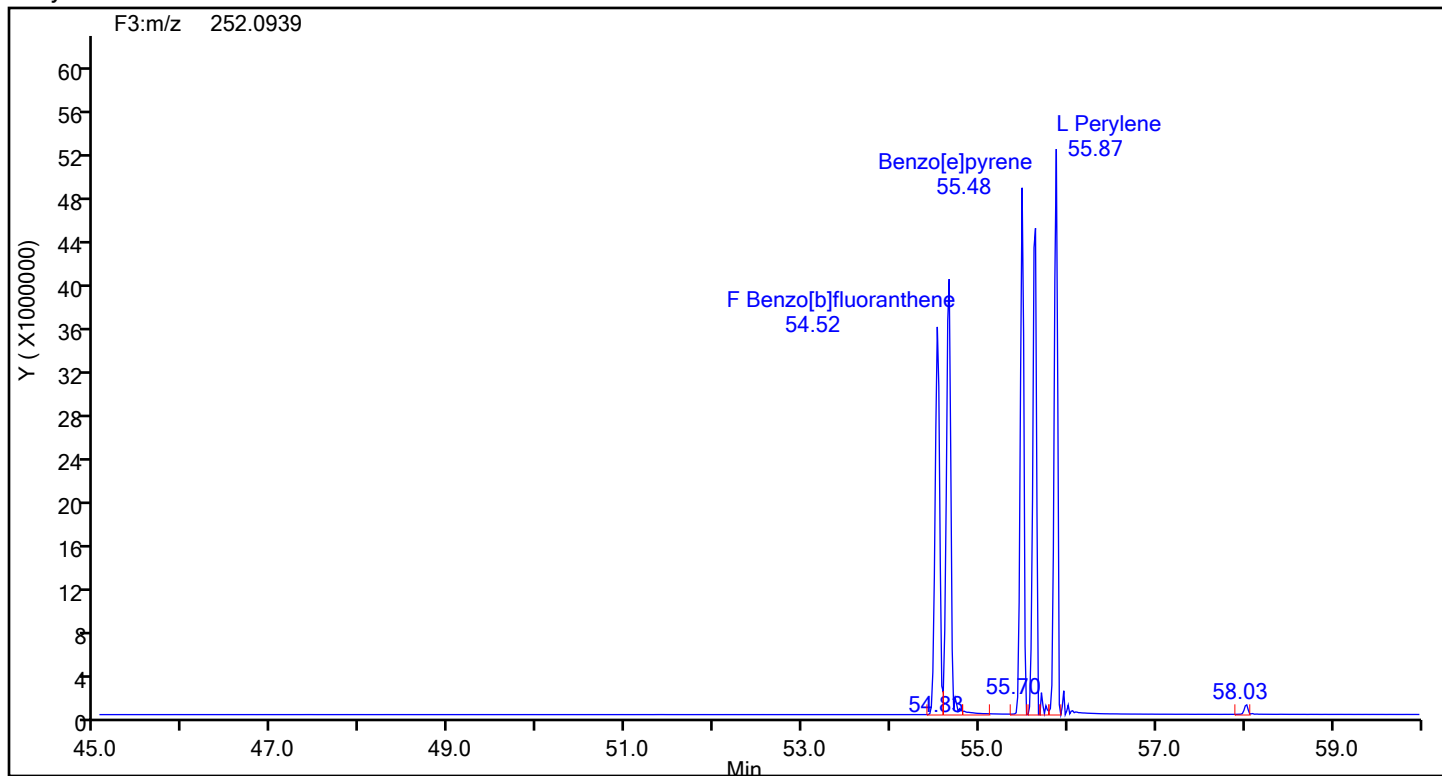
Benzo[e]pyrene Standards



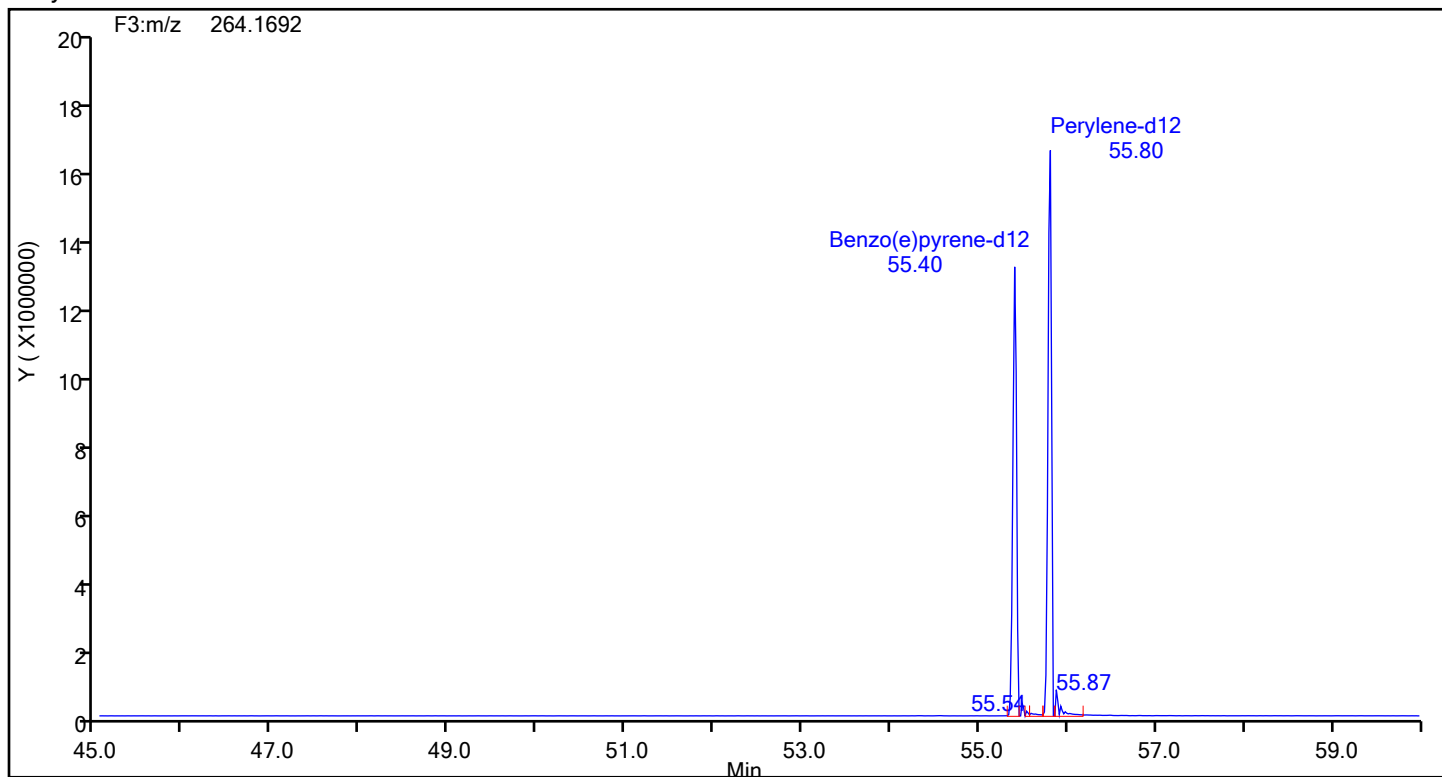
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Perylene



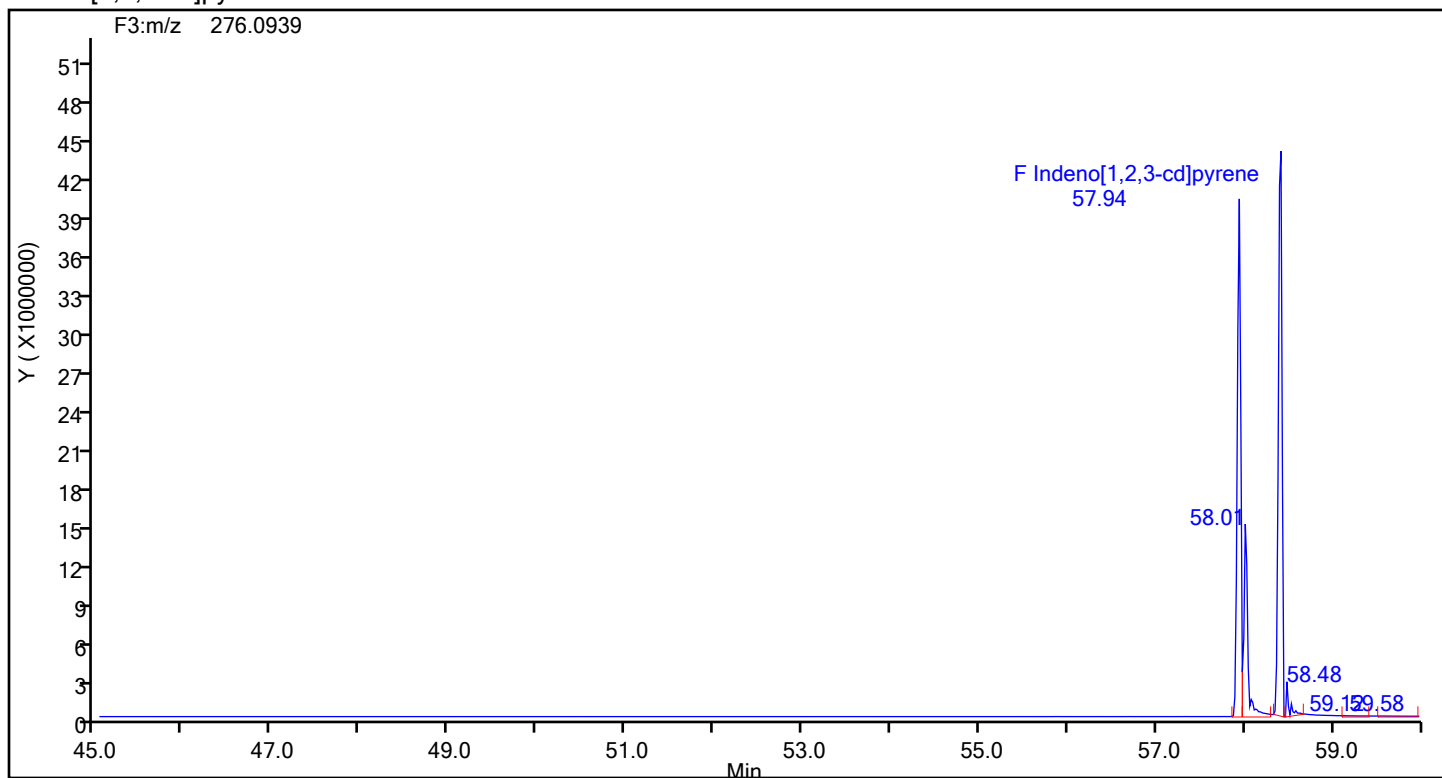
Perylene Standards



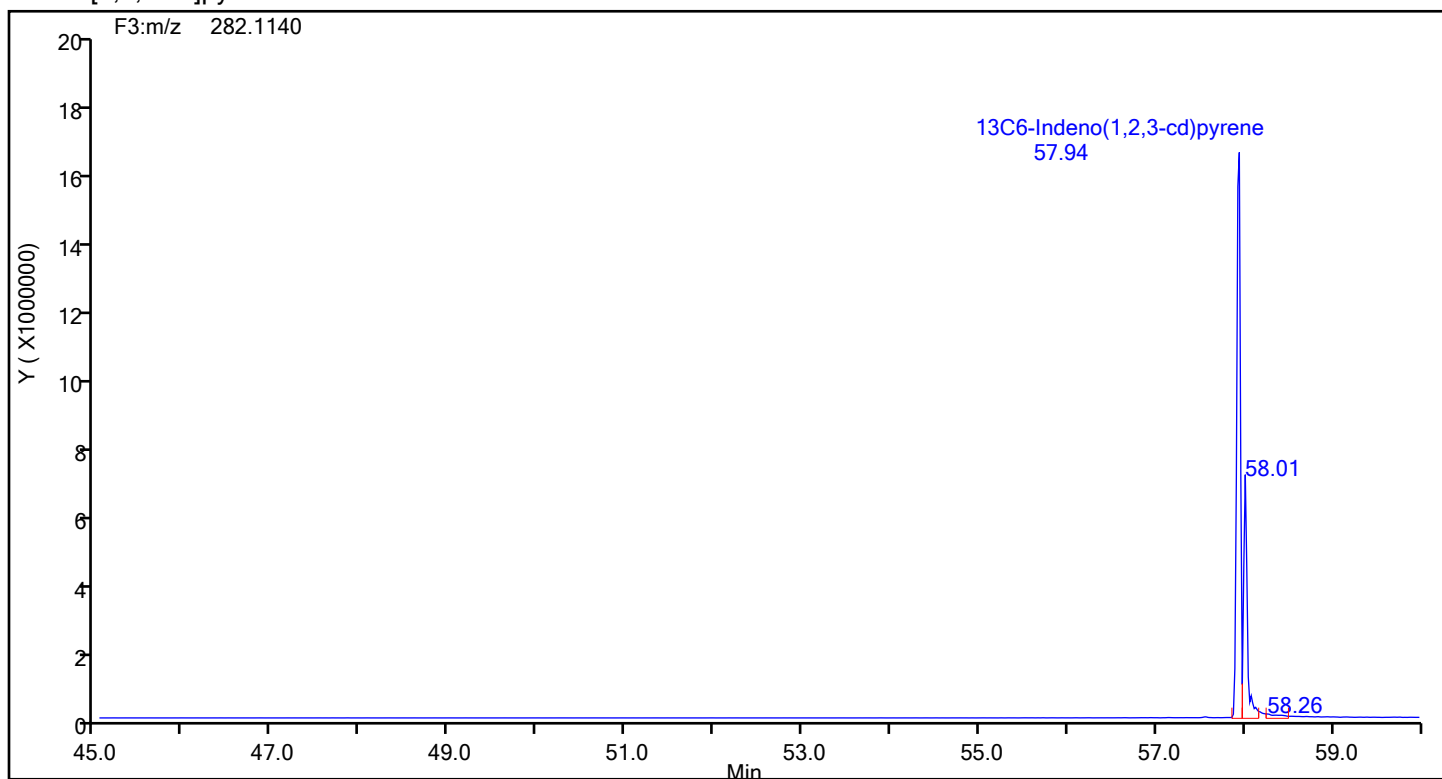
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene

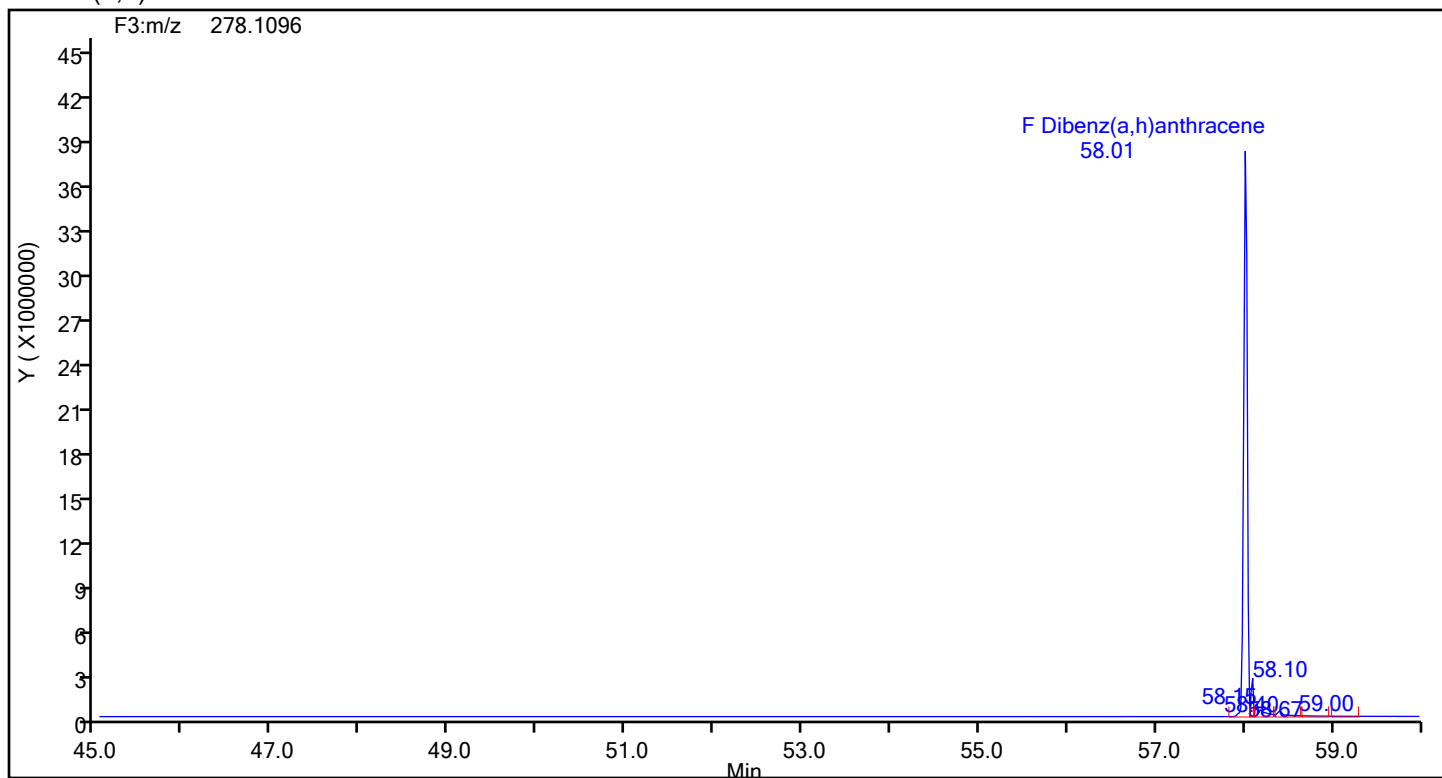


Indeno[1,2,3-cd]pyrene Standards

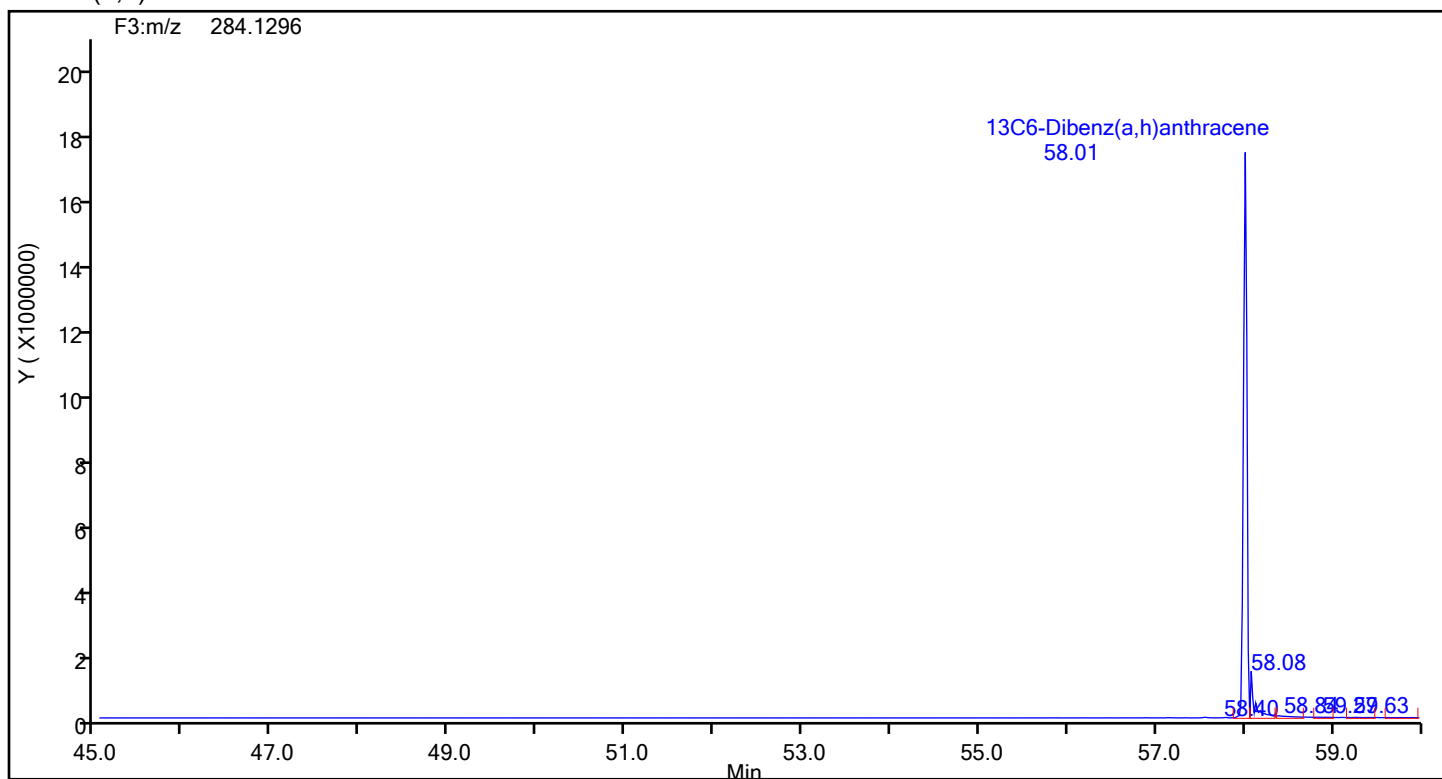


Eurofins Knoxville

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Dibenz(a,h)anthracene



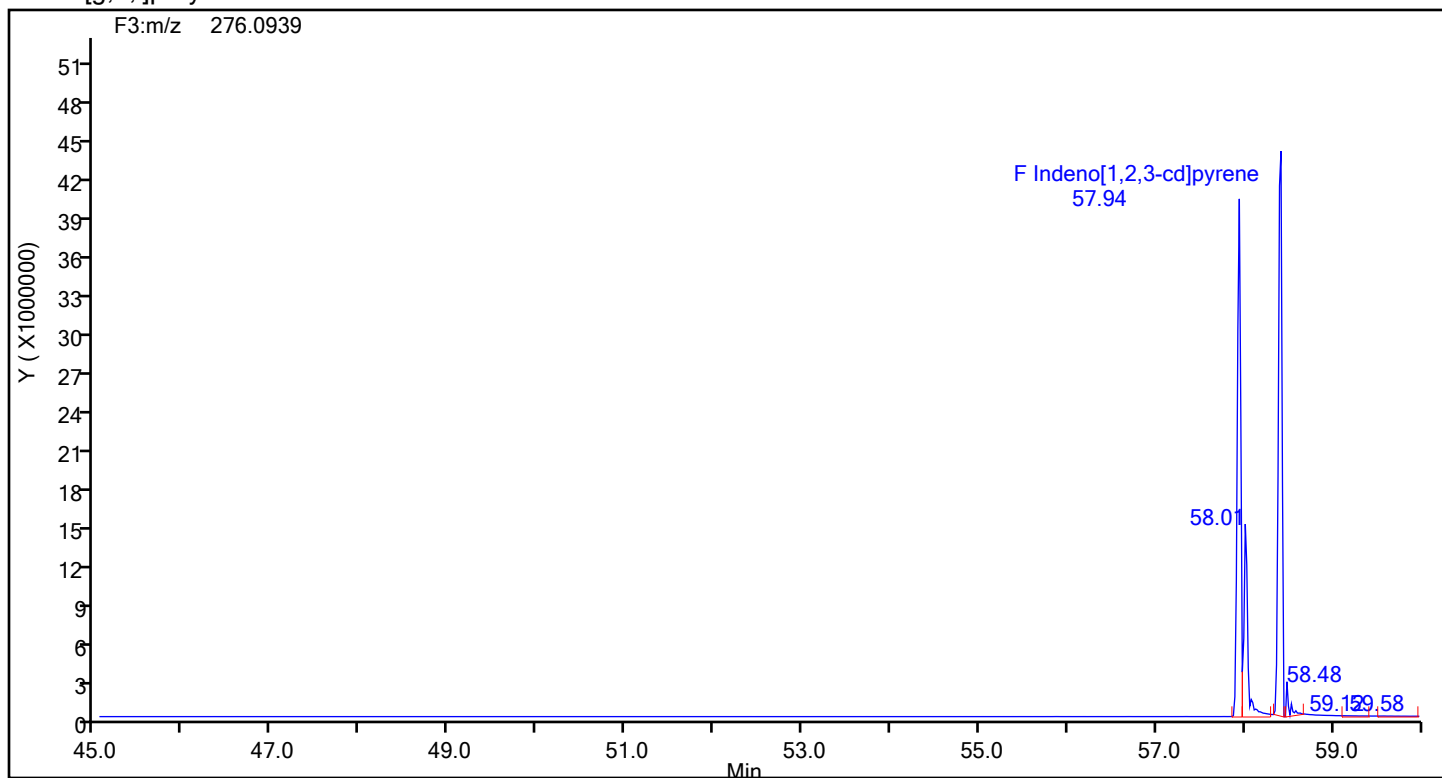
Dibenz(a,h)anthracene Standards



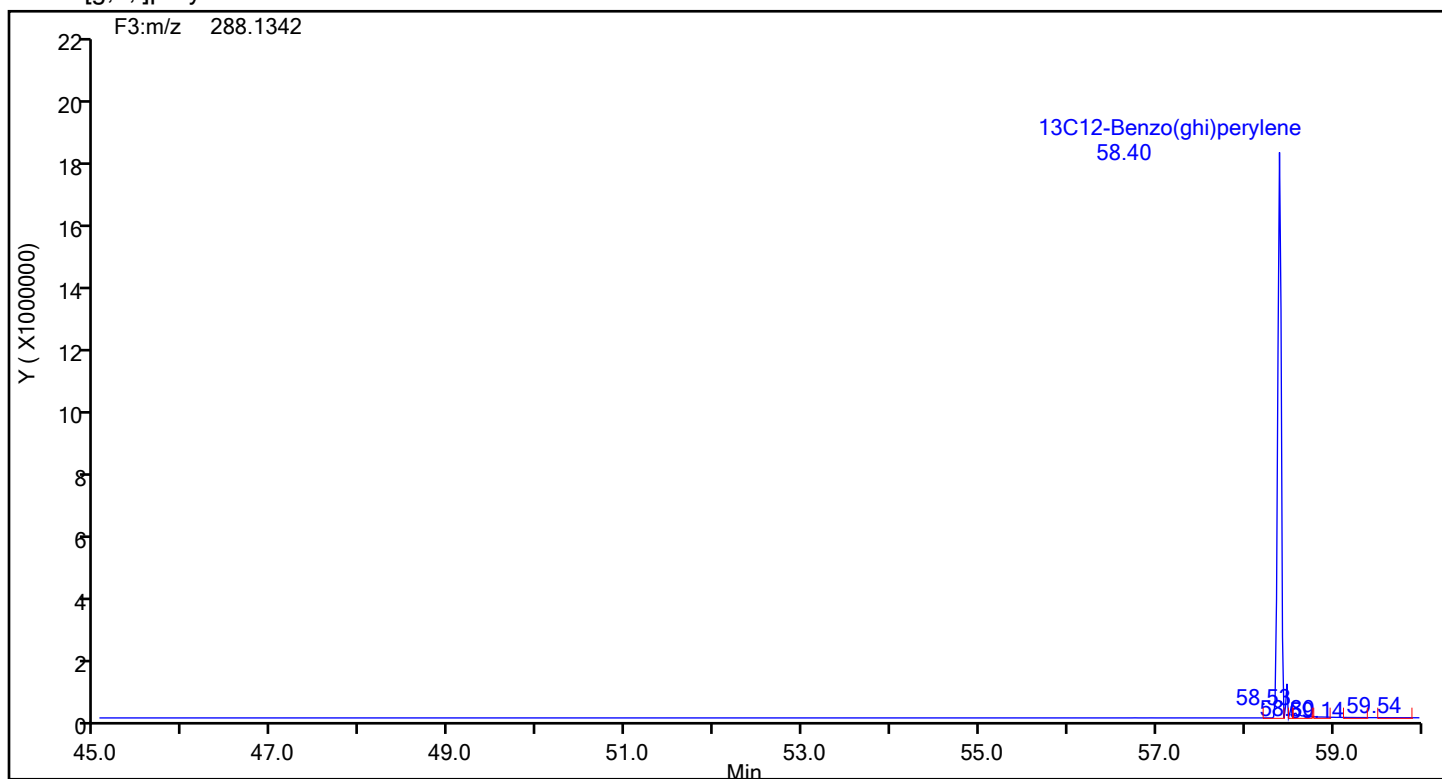
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88978 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM VII
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: CCV 140-88999/1 Calibration Date: 07/20/2024 02:03

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240720c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.195		185	200	-7.3	25.0
2-Methylnaphthalene	AveID	1.279	1.242		194	200	-2.8	25.0
Acenaphthylene	AveID	2.366	2.377		201	200	0.5	25.0
Acenaphthene	AveID	1.270	1.207		190	200	-4.9	25.0
Fluorene	AveID	1.253	1.303		208	200	4.0	25.0
Phenanthrene	AveID	1.104	1.141		207	200	3.3	25.0
Anthracene	AveID	1.359	1.413		208	200	4.0	25.0
Fluoranthene	AveID	1.151	1.096		190	200	-4.8	25.0
Pyrene	AveID	1.065	1.039		195	200	-2.4	25.0
Benzo[a]anthracene	AveID	0.9739	1.074		221	200	10.3	25.0
Chrysene	AveID	0.9815	1.063		217	200	8.3	25.0
Benzo[b]fluoranthene	AveID	1.125	1.145		204	200	1.8	25.0
Benzo[k]fluoranthene	AveID	1.127	1.072		190	200	-4.9	25.0
Benzo[e]pyrene	AveID	1.001	0.9369		187	200	-6.4	25.0
Benzo[a]pyrene	AveID	1.113	1.119		201	200	0.6	25.0
Perylene	AveID	1.431	1.520		213	200	6.3	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.199		213	200	6.6	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.060		188	200	-6.3	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.163		181	200	-9.4	25.0
13C6-Naphthalene	Ave	3.375	2.745		81.3	100	-18.7	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.401		87.4	100	-12.6	30.0
13C6-Acenaphthylene	Ave	1.652	1.727		105	100	4.5	30.0
13C6-Acenaphthene	Ave	0.9792	0.9870		101	100	0.8	30.0
13C6-Fluorene	Ave	0.8898	0.9062		102	100	1.8	30.0
13C6-Phenanthrene	Ave	0.5724	0.4956		86.6	100	-13.4	30.0
13C6-Anthracene	Ave	0.4523	0.4013		88.7	100	-11.3	30.0
13C6-Fluoranthrene	Ave	1.199	1.241		103	100	3.4	30.0
13C3-Pyrene	Ave	1.351	1.356		100	100	0.4	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.326		87.3	100	-12.7	30.0
13C6-Chrysene	Ave	1.629	1.398		85.8	100	-14.2	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.566		107	100	7.1	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.759		101	100	0.5	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.842		113	100	12.5	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.692		109	100	9.1	30.0
Perylene-d12	Ave	1.192	1.271		107	100	6.7	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.568		153	100	53.4*	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.582		150	100	49.9*	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.606		126	100	26.0	30.0

Resolution Check Report (DFS SN: 3439)

Date: 20 Jul 2024 01:40
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

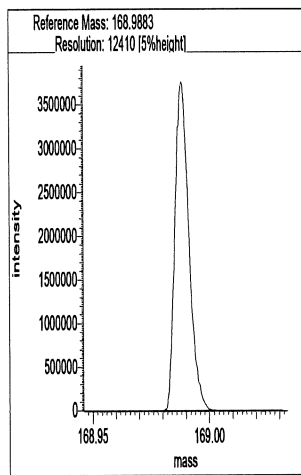
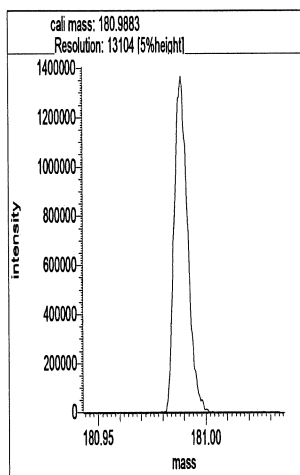
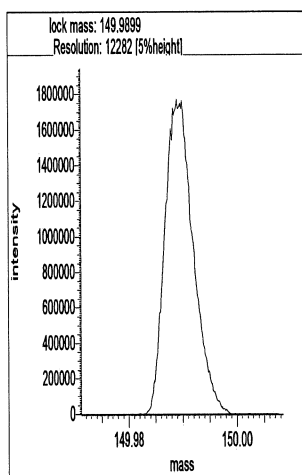
-d3240720r2

Segment 1

Lock mass 149.9899 [m/z] Resolution: 12282 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 13104 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 12410 [5%height]

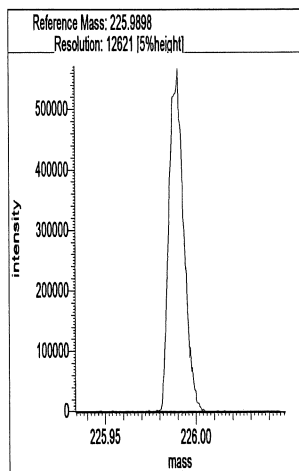
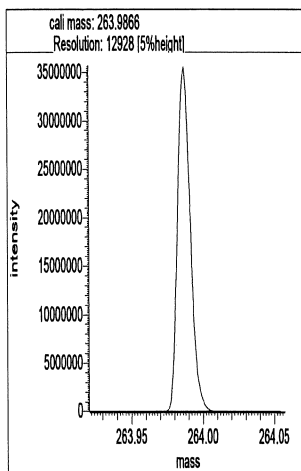
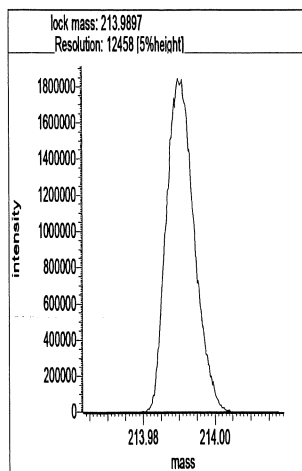


Segment 2

Lock mass 213.9897 [m/z] Resolution: 12458 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12928 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 12621 [5%height]

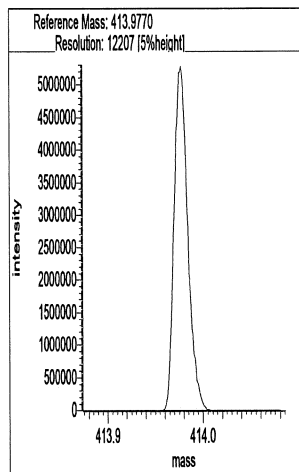
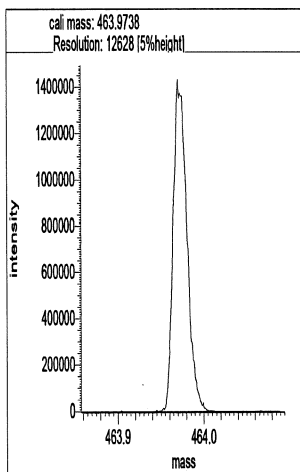
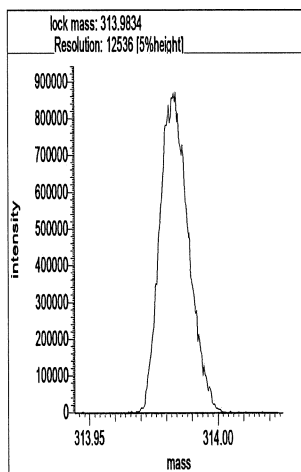


Segment 3

Lock mass 313.9834 [m/z] Resolution: 12536 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12628 [5%height]


Ref. mass 413.9770 [m/z] Resolution: 12207 [5%height]



Reports

01:50:34: Peak matching procedure started
01:50:34:
01:50:35: Reference mass: 263.98656
01:50:35: Sample mass: 414.0
01:50:36:
01:50:36: Finding reference mass
01:50:37: Finding sample mass
01:50:38:
01:50:43: [1] 413.9778 amu, mean: 413.9778 SD: 0.09 mmu or: 0.21 ppm
01:50:46: [2] 413.9776 amu, mean: 413.9777 SD: 0.26 mmu or: 0.63 ppm
01:50:50: [3] 413.9781 amu, mean: 413.9778 SD: 0.26 mmu or: 0.62 ppm
01:50:53: [4] 413.9781 amu, mean: 413.9779 SD: 0.24 mmu or: 0.57 ppm
01:50:56: [5] 413.9781 amu, mean: 413.9780 SD: 0.22 mmu or: 0.54 ppm
01:50:59: [6] 413.9778 amu, mean: 413.9779 SD: 0.23 mmu or: 0.56 ppm
01:51:02: [7] 413.9782 amu, mean: 413.9780 SD: 0.23 mmu or: 0.55 ppm
01:51:05: [8] 413.9782 amu, mean: 413.9780 SD: 0.22 mmu or: 0.52 ppm
01:51:08: [9] 413.9781 amu, mean: 413.9780 SD: 0.21 mmu or: 0.51 ppm
01:51:12: [10] 413.9781 amu, mean: 413.9780 SD: 0.25 mmu or: 0.61 ppm
01:51:15: [11] 413.9775 amu, mean: 413.9780
01:51:15: Stop requested. Please wait for procedure to finish.
01:51:15:
01:51:18:
01:51:18: Peakmatching stopped

Signature

 7-20-24

Resolution Check Report (DFS SN: 3439)

Date: 20 Jul 2024 12:39
MID Experiment: ResCheck_HRPAH
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43_HRPAH.lua
Status: RESOLUTION PASSED

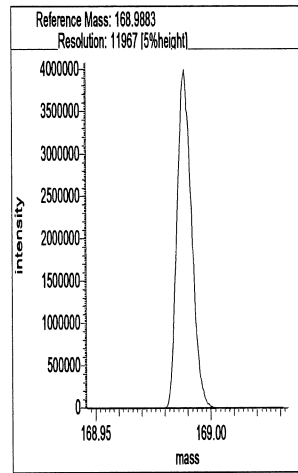
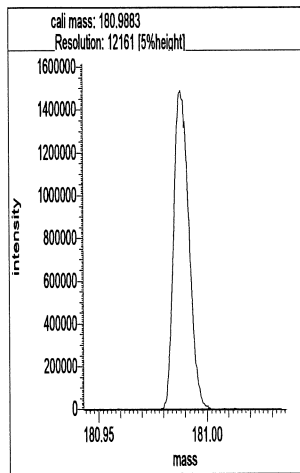
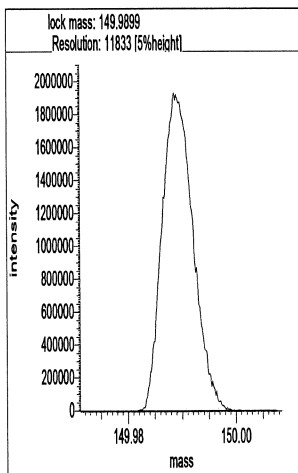
d3240720r3

Segment 1

Lock mass 149.9899 [m/z] Resolution: 11833 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 12161 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11967 [5%height]

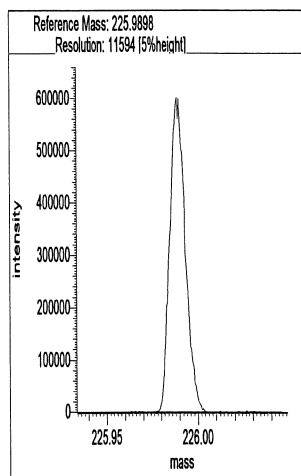
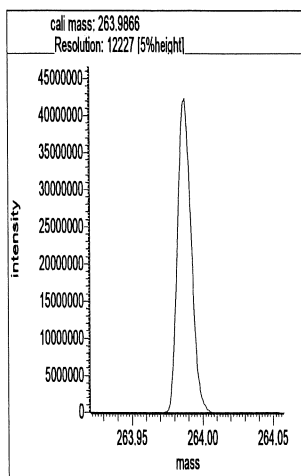
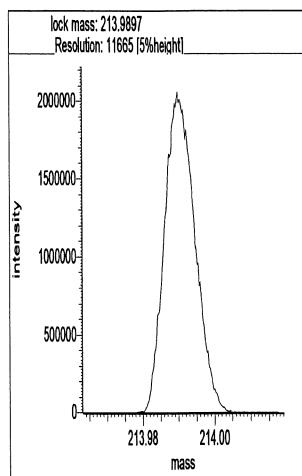


Segment 2

Lock mass 213.9897 [m/z] Resolution: 11665 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12227 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11594 [5%height]

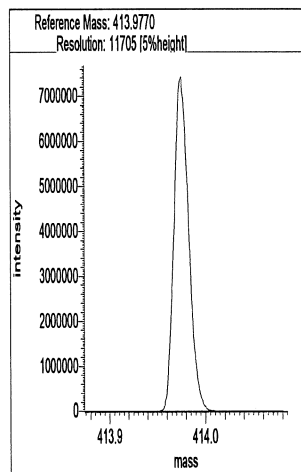
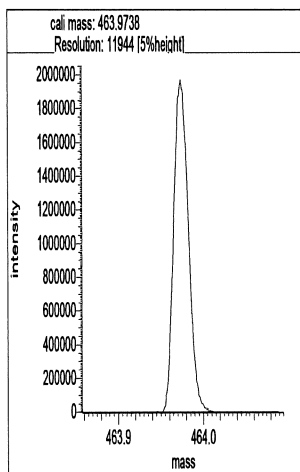
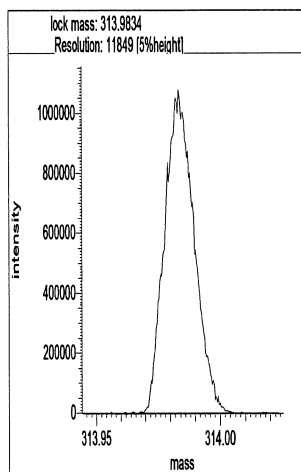


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11849 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11944 [5%height]


Ref. mass 413.9770 [m/z] Resolution: 11705 [5%height]



Reports

12:46:57: Peak matching procedure started
12:46:57:
12:46:58: Reference mass: 263.98656
12:46:58: Sample mass: 414.0
12:46:59:
12:46:59: Finding reference mass
12:47:00: Finding sample mass
12:47:01:
12:47:06: [1] 413.9760 amu, mean: 413.9760
12:47:09: [2] 413.9761 amu, mean: 413.9761 SD: 0.07 mmu or: 0.16 ppm
12:47:13: [3] 413.9765 amu, mean: 413.9762 SD: 0.27 mmu or: 0.66 ppm
12:47:16: [4] 413.9762 amu, mean: 413.9762 SD: 0.22 mmu or: 0.54 ppm
12:47:19: [5] 413.9764 amu, mean: 413.9762 SD: 0.21 mmu or: 0.51 ppm
12:47:22: [6] 413.9762 amu, mean: 413.9762 SD: 0.19 mmu or: 0.46 ppm
12:47:25: [7] 413.9763 amu, mean: 413.9763 SD: 0.17 mmu or: 0.42 ppm
12:47:28: [8] 413.9767 amu, mean: 413.9763 SD: 0.23 mmu or: 0.56 ppm
12:47:31: [9] 413.9767 amu, mean: 413.9764 SD: 0.24 mmu or: 0.59 ppm
12:47:34: [10] 413.9768 amu, mean: 413.9764 SD: 0.27 mmu or: 0.64 ppm
12:47:38: [11] 413.9763 amu, mean: 413.9764 SD: 0.25 mmu or: 0.61 ppm
12:47:38:
12:47:38: Stop requested. Please wait for procedure to finish.
12:47:38:
12:47:41:
12:47:41: Peakmatching stopped

Signature

 7/20/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\d3240720c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2024 02:03:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033591-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1

Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 03:17:16 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d

Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1620

First Level Reviewer: V4XA

Date: 20-Jul-2024 03:17:16

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	63390709		3.3746	81.3	81.3	0.006545	0.006545	81.34	
Naphthalene	11:25	151440995		1.2893	185.3	185.3	0.0160	0.0160	92.65	
D 13C6-2-Methylnaphthalene	13:46	32361484		1.6031	87.4	87.4	0.001708	0.001708	87.41	
2-Methylnaphthalene	13:46	80395763		1.2786	194.3	194.3	0.006664	0.006664	97.15	
D 13C6-Acenaphthylene	16:38	39878642		1.6520	104.5	104.5	0.003315	0.003315	105	
Acenaphthylene	16:38	108384821		2.3661	200.9	200.9	0.008778	0.008778	100	
* Acenaphthene-d10	17:12	23095163		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:19	22795878		0.9792	100.8	100.8	0.005468	0.005468	101	
Acenaphthene	17:20	55023694		1.2697	190.1	190.1	0.009113	0.009113	95.05	
D 13C6-Fluorene	19:35	20927757		0.8898	101.8	101.8	0.003104	0.003104	102	
Fluorene	19:36	54528354		1.2532	207.9	207.9	0.009652	0.009652	104	
D 13C6-Phenanthrene	24:56	30575339		0.5724	86.6	86.6	0.004314	0.004314	86.57	
Phenanthrene	24:57	69786505		1.1044	206.7	206.7	0.0111	0.0111	103	
\$ Anthracin-d10	25:09	22532204		0.4257	85.8	85.8	0.000903	0.000903	85.79	
D 13C6-Anthracene	25:16	24762418		0.4523	88.7	88.7	0.005459	0.005459	88.73	
Anthracene	25:16	69964604		1.3586	208.0	208.0	0.0117	0.0117	104	
D 13C6-Fluoranthrene	33:40	76548290		1.1994	103.4	103.4	0.006047	0.006047	103	
Fluoranthrene	33:40	167835713		1.1513	190.4	190.4	0.005946	0.005946	95.22	
* Pyrene-d10	35:12	61698876		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:20	83663142		1.3512	100.4	100.4	0.009228	0.009228	100	
Pyrene	35:21	173918555		1.0652	195.2	195.2	0.005878	0.005878	97.58	
\$ 13C6-Benzo(c)fluorene	39:03	32631024		0.5136	103.0	103.0	0.004012	0.004012	103	
D 13C6-Benzo(a)anthracene	45:51	70210475		1.5189	87.3	87.3	0.005894	0.005894	87.28	
Benzo[a]anthracene	45:52	150774323		0.9739	220.5	220.5	0.0206	0.0206	110	
D 13C6-Chrysene	46:07	74027720		1.6287	85.8	85.8	0.005497	0.005497	85.82	
Chrysene	46:08	157346377		0.9815	216.6	216.6	0.0203	0.0203	108	
D 13C6-Benzo(b)fluoranthene	54:29	82936032		1.4621	107.1	107.1	0.001393	0.001393	107	
Benzo[b]fluoranthene	54:29	189886515		1.1249	203.5	203.5	0.001838	0.001838	102	
\$ 13C12-Benzo(j)fluoranthene	54:31	74284704		1.3558	103.5	103.5	0.005362	0.005362	103	
D 13C6-Benzo(k)fluoranthene	54:36	93183662		1.7507	100.5	100.5	0.001163	0.001163	101	
Benzo[k]fluoranthene	54:37	199700771		1.1271	190.1	190.1	0.001783	0.001783	95.07	
* Benzo(e)pyrene-d12	55:23	52960429		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:27	182789126		1.0013	187.1	187.1	0.001539	0.001539	93.57	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(e)pyrene	55:27	97554726		1.6368	112.5	112.5	0.001972	0.001972	113	
D 13C4-Benzo(a)pyrene	55:36	89621481		1.5508	109.1	109.1	0.002082	0.002082	109	
Benzo[a]pyrene	55:36	200643831		1.1130	201.1	201.1	0.001424	0.001424	101	
D Perylene-d12	55:46	67319415		1.1917	106.7	106.7	0.006101	0.006101	107	
Perylene	55:50	204694832		1.4307	212.5	212.5	0.001446	0.001446	106	
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	83024179		1.0218	153.4	153.4	0.005515	0.005515	153	
Indeno[1,2,3-cd]pyrene	57:55	199038406		1.1249	213.1	213.1	0.001439	0.001439	107	M
D 13C6-Dibenz(a,h)anthracene	57:59	83798095		1.0553	149.9	149.9	0.004373	0.004373	150	
Dibenz(a,h)anthracene	57:59	177731075		1.1314	187.5	187.5	0.001164	0.001164	93.73	
D 13C12-Benzo(ghi)perylene	58:22	85053839		1.2749	126.0	126.0	0.000842	0.000842	126	
Benzo[g,h,i]perylene	58:23	197884039		1.2838	181.2	181.2	0.001263	0.001263	90.62	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\d3240720c1a.d
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 20-Jul-2024 02:03:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033591-001
Operator ID: Xcalibur_System Instrument ID: D3PAH
Sublist: chrom-EPA_23__PAH*sub1
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240719-33591.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 03:17:16 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1620

First Level Reviewer: V4XA

Date: 20-Jul-2024 03:17:16

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:24	0	0.663	63390709	22630742	726	1815	31172		
Naphthalene											
128.0626	11:25	11:25	0	1.001	151440995	52218889	1865	4662	27999		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	0	0.801	32361484	15140847	90	225	168232		
2-Methylnaphthalene											
142.0783	13:46	13:46	0	1.000	80395763	39843786	516	1290	77217		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	39878642	14282479	180	450	79347		E
Acenaphthylene											
152.0626	16:38	16:38	0	1.000	108384821	41119920	680	1700	60470		
Acenaphthene-d10											
164.1404	17:12	17:12	0		23095163	8217912	52	130	158037		
13C6-Acenaphthene											
160.0984	17:19	17:19	0	1.007	22795878	8184830	176	440	46505		E
Acenaphthene											
154.0783	17:20	17:20	0	1.001	55023694	19707768	379	947	51999		
13C6-Fluorene											
172.0984	19:35	19:35	0	1.139	20927757	6531383	91	227	71773		E
Fluorene											
166.0783	19:36	19:36	0	1.001	54528354	16946890	316	790	53629		
13C6-Phenanthrene											
184.0984	24:56	24:56	0	0.708	30575339	7654384	121	302	63259		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	69786505	17707904	377	942	46971		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:09	0	0.715	22532204	5341641	19	47	281139		
13C6-Anthracene											
184.0984	25:16	25:16	0	0.718	24762418	5907097	121	302	48819		
Anthracene											
178.0783	25:16	25:16	0	1.000	69964604	17292672	377	942	45869		
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	76548290	15629575	355	887	44027		E
Fluoranthene											
202.0783	33:40	33:40	0	1.000	167835713	35452353	428	1070	82833		
Pyrene-d10											
212.1404	35:12	35:12	0		61698876	12229780	62	155	197255		
13C3-Pyrene											
205.0883	35:20	35:20	0	1.004	83663142	17089776	610	1525	28016		E
Pyrene											
202.0783	35:21	35:21	0	1.000	173918555	35562433	428	1070	83090		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	0	0.705	32631024	6014138	101	252	59546		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:51	0	1.303	70210475	13160339	607	1517	21681		
Benzo[a]anthracene											
228.0939	45:52	45:52	0	1.000	150774323	29719050	1057	2642	28116		
13C6-Chrysene											
234.1140	46:07	46:07	0	1.310	74027720	13238931	607	1517	21810		
Chrysene											
228.0939	46:08	46:08	0	1.000	157346377	29922129	1057	2642	28309		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:29	0	0.984	82936032	24517074	138	345	177660		E
Benzo[b]fluoranthene											
252.0939	54:29	54:29	0	1.000	189886515	55256821	203	507	272201		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:31	0	0.984	74284704	20630349	493	1232	41847		
13C6-Benzo(k)fluoranthene											
258.1140	54:36	54:36	0	0.986	93183662	25226194	138	345	182799		E
Benzo[k]fluoranthene											
252.0939	54:37	54:37	0	1.000	199700771	58558197	203	507	288464		
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		52960429	16945093	493	1232	34371		
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	182789126	60118764	203	507	296152		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:27	0	1.001	97554726	32899048	219	547	150224		E
13C4-Benzo(a)pyrene											
256.1073	55:36	55:36	0	1.004	89621481	31986925	219	547	146059		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:36	55:36	0	1.000	200643831	71975680	203	507	354560		
Perylene-d12											
264.1692	55:46	55:46	0	1.007	67319415	24507798	493	1232	49712		E
Perylene											
252.0939	55:50	55:50	0	1.001	204694832	74552785	203	507	367255		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	0	1.046	83024179	30894489	382	955	80876		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:55	0	1.000	199038406	72468377	200	500	362342		M
13C6-Dibenz(a,h)anthracene											
284.1296	57:59	57:59	0	1.047	83798095	30363773	313	782	97009		E
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	0	1.000	177731075	60617192	160	400	378857		
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:22	0	1.054	85053839	30836262	73	182	422415		E
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	0	1.000	197884039	69992907	200	500	349965		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61HRPAHCS5a_00002

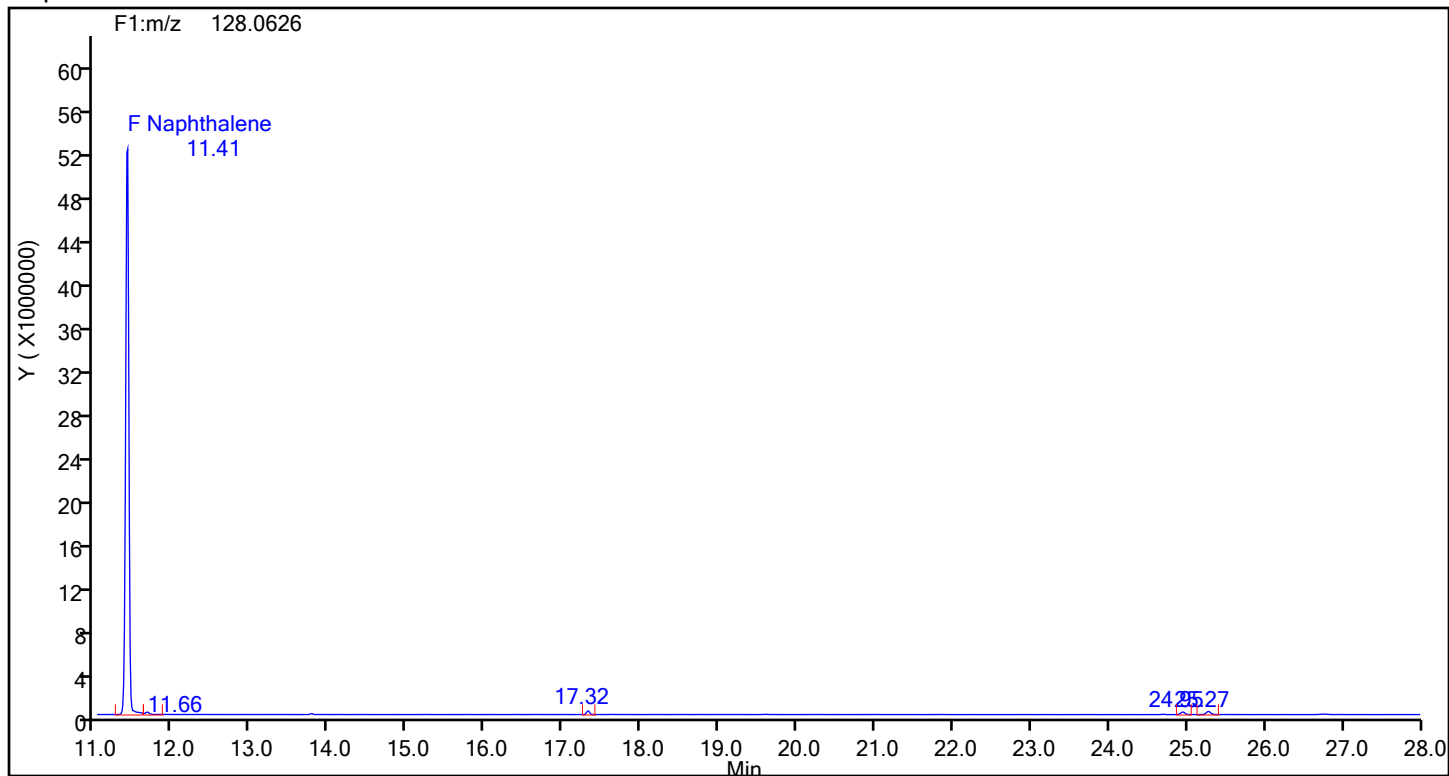
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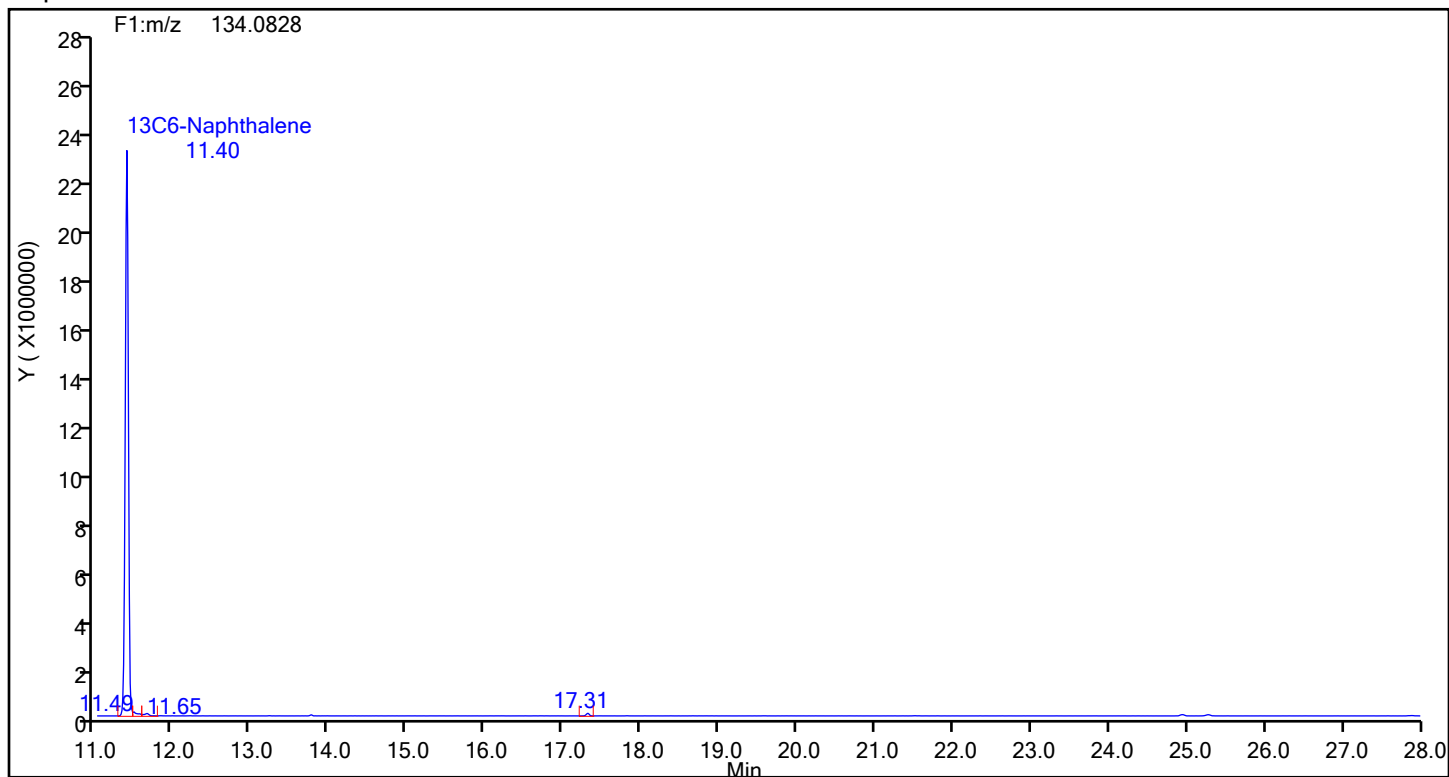
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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



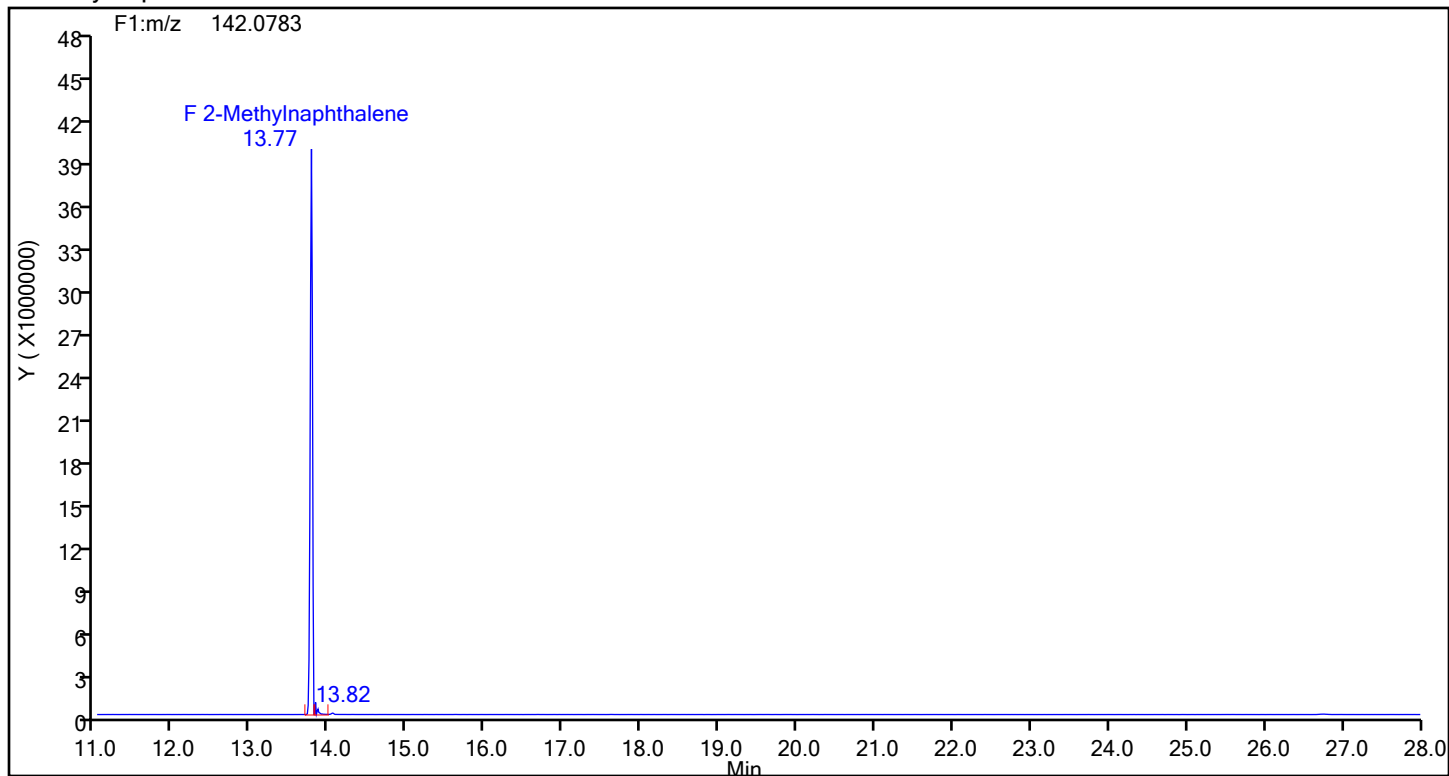
Naphthalene Standards



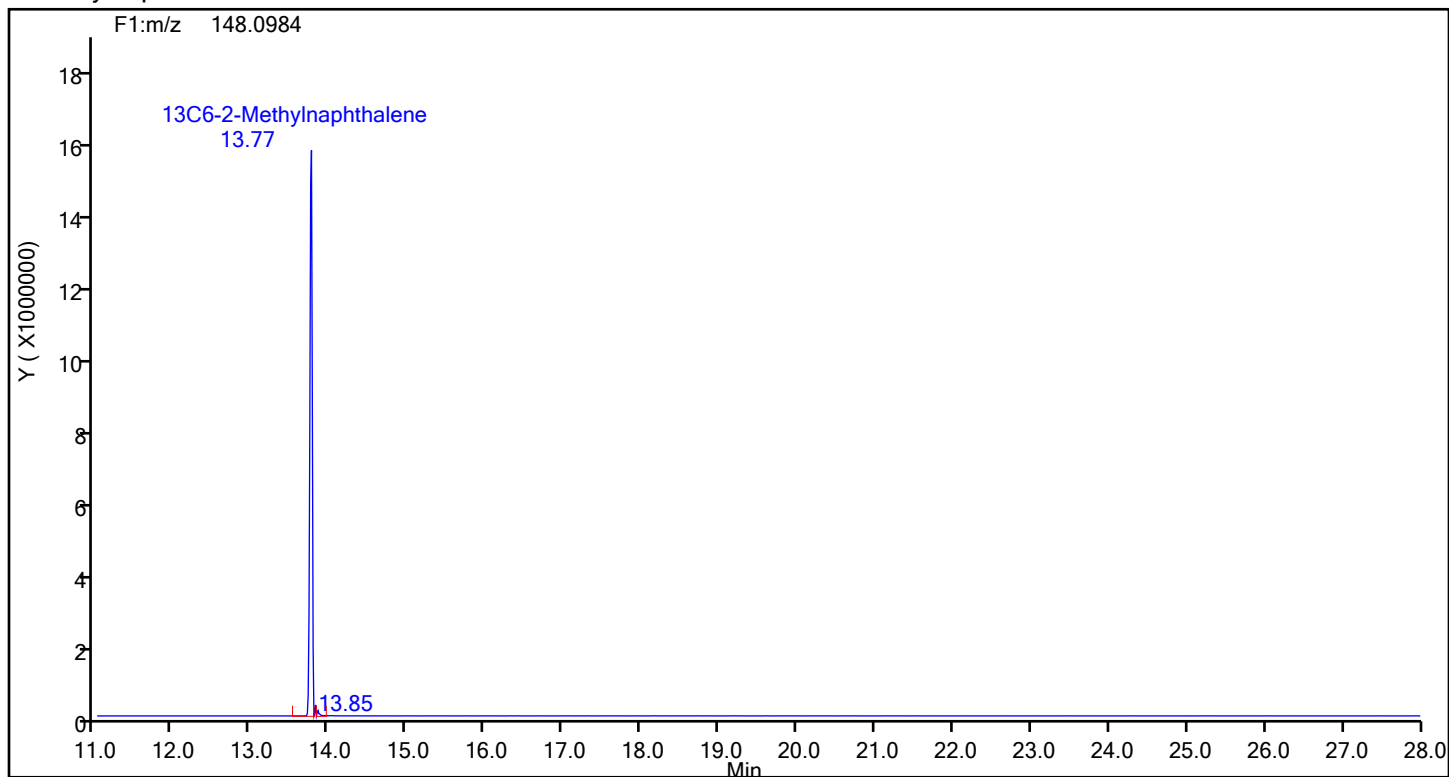
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Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



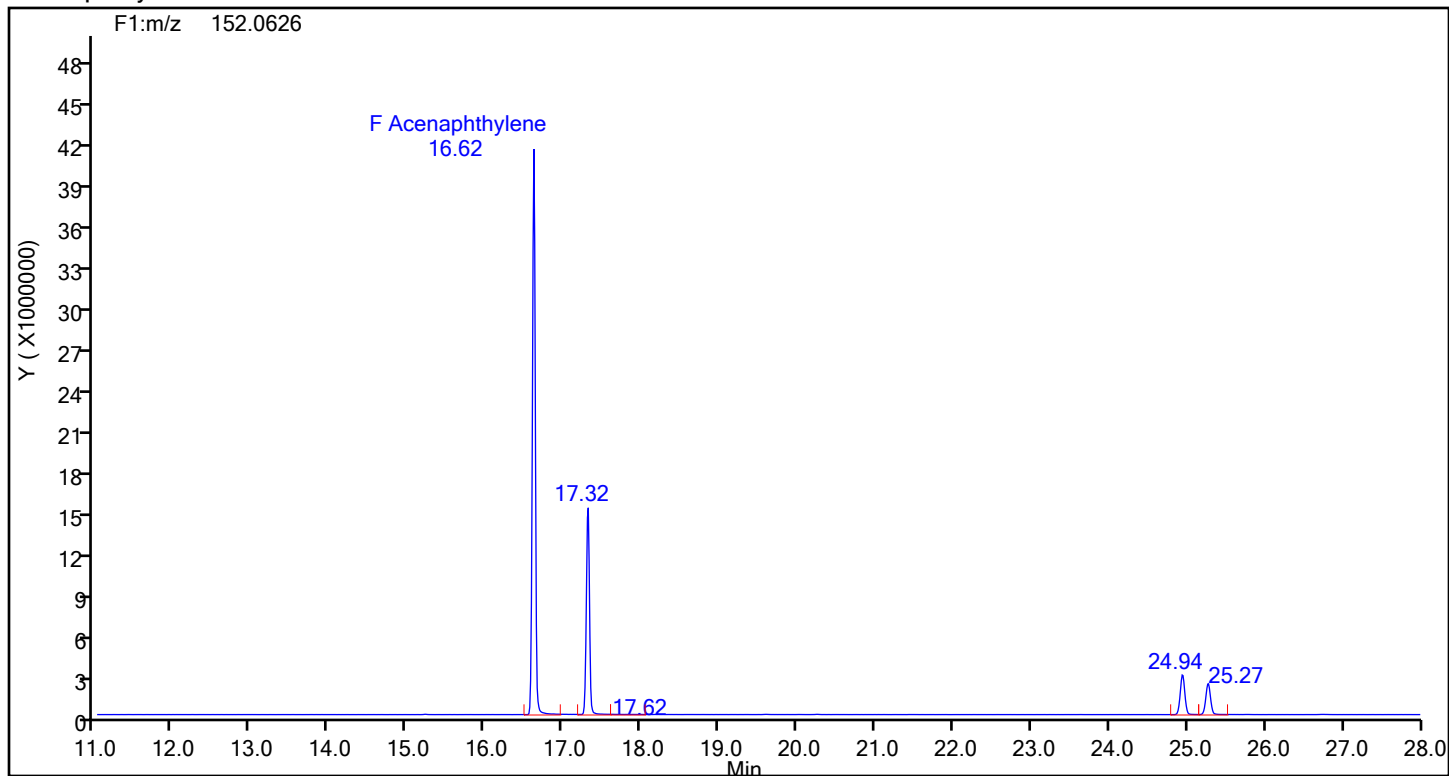
2-Methylnaphthalene Standards



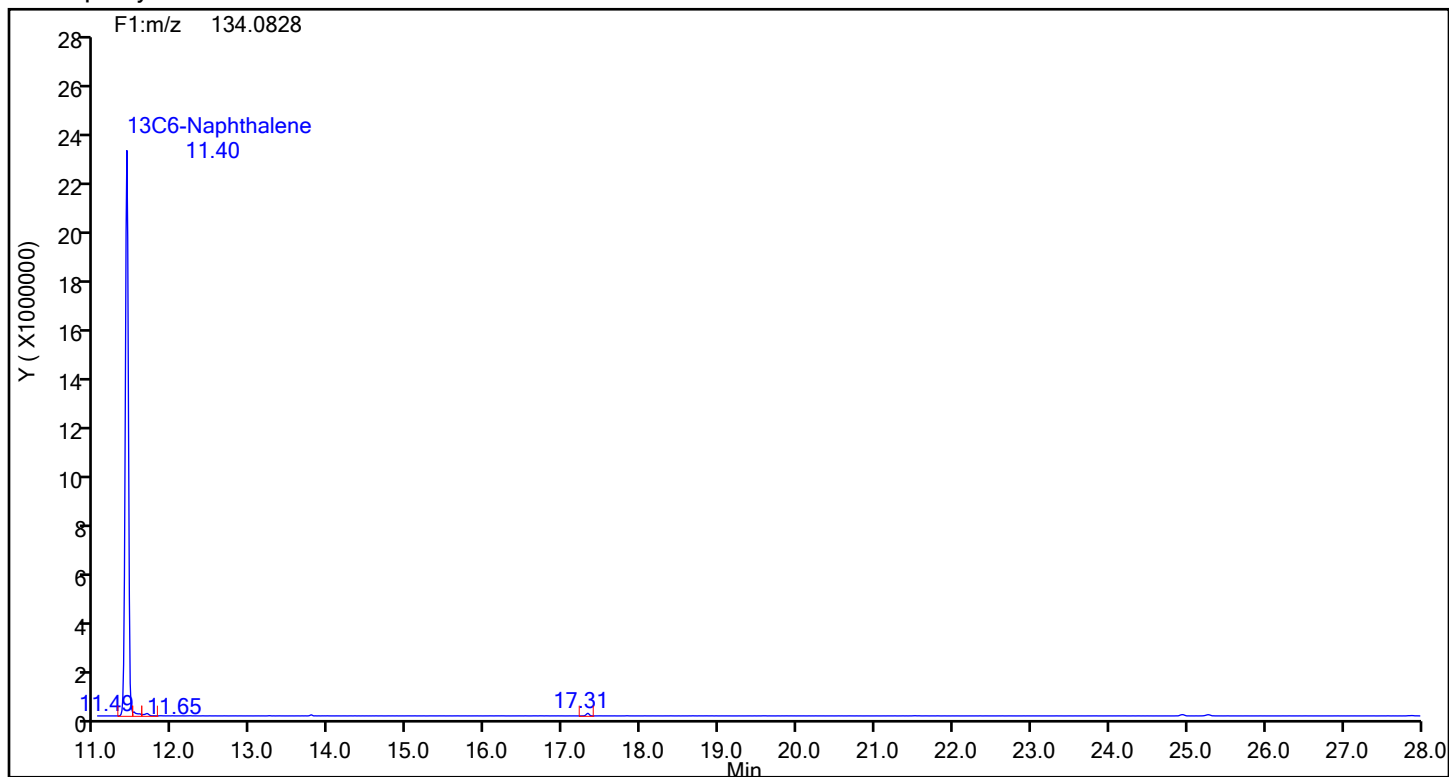
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene

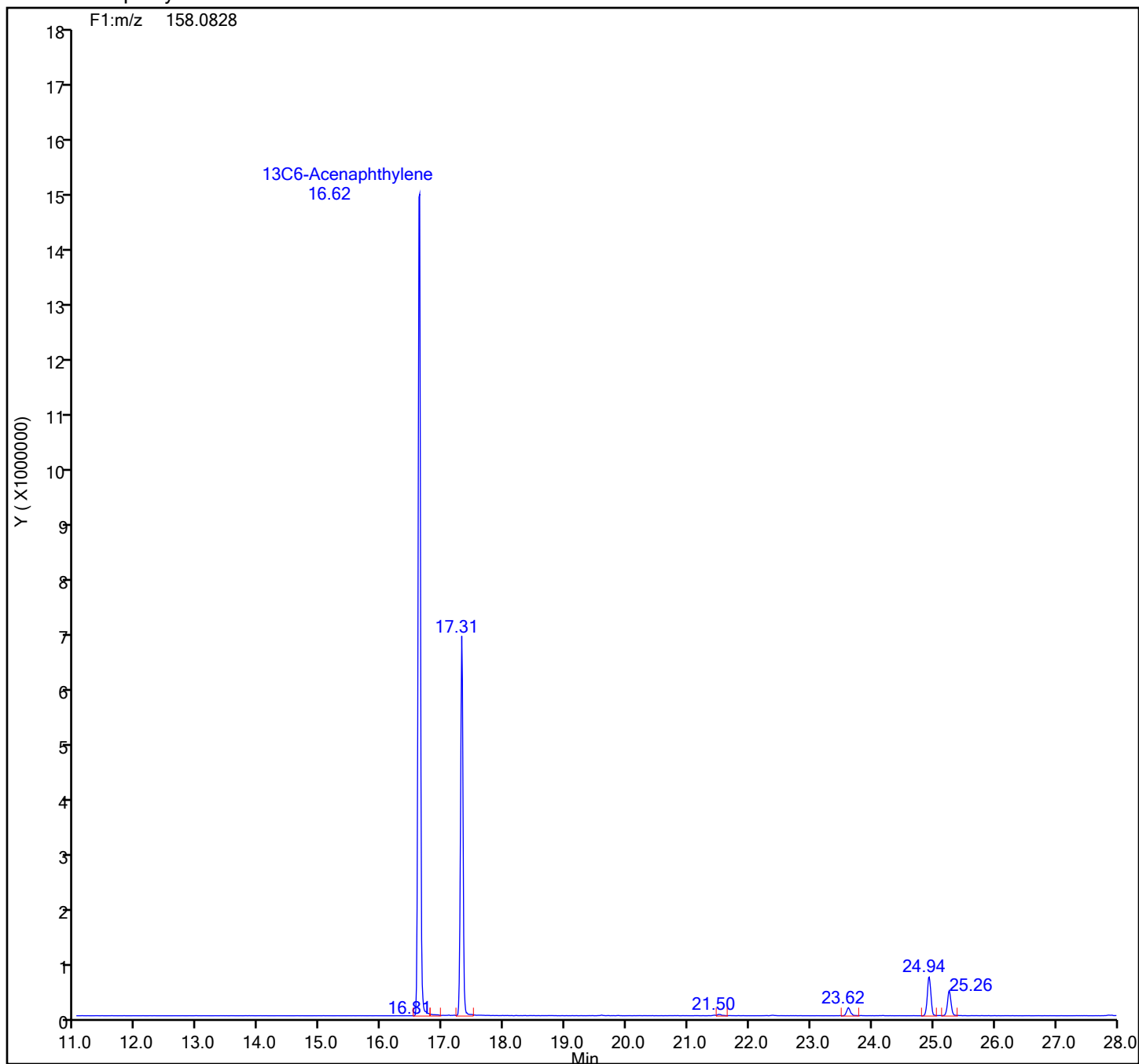


Acenaphthylene Standards



Eurofins Knoxville

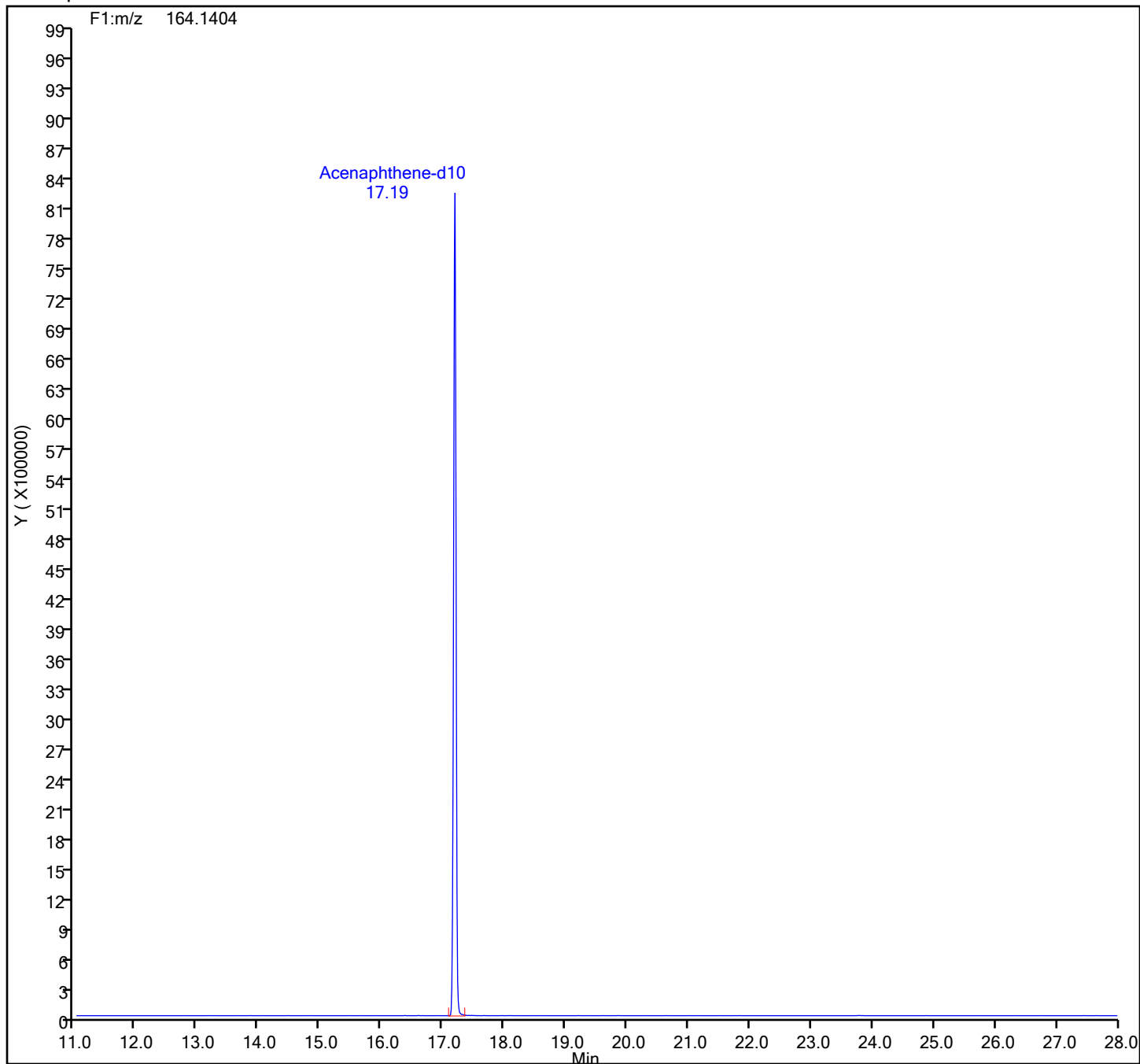
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Acenaphthylene Standards



Eurofins Knoxville

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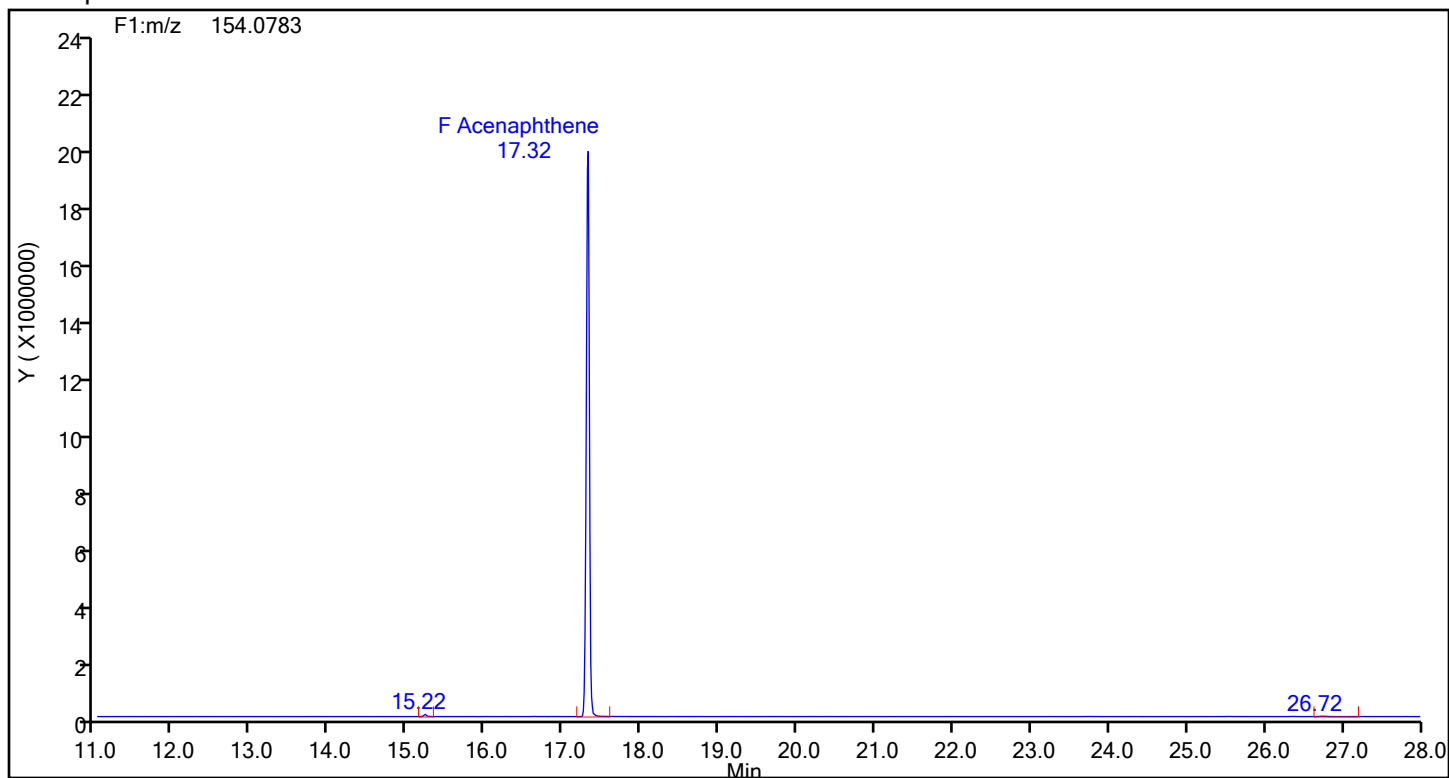
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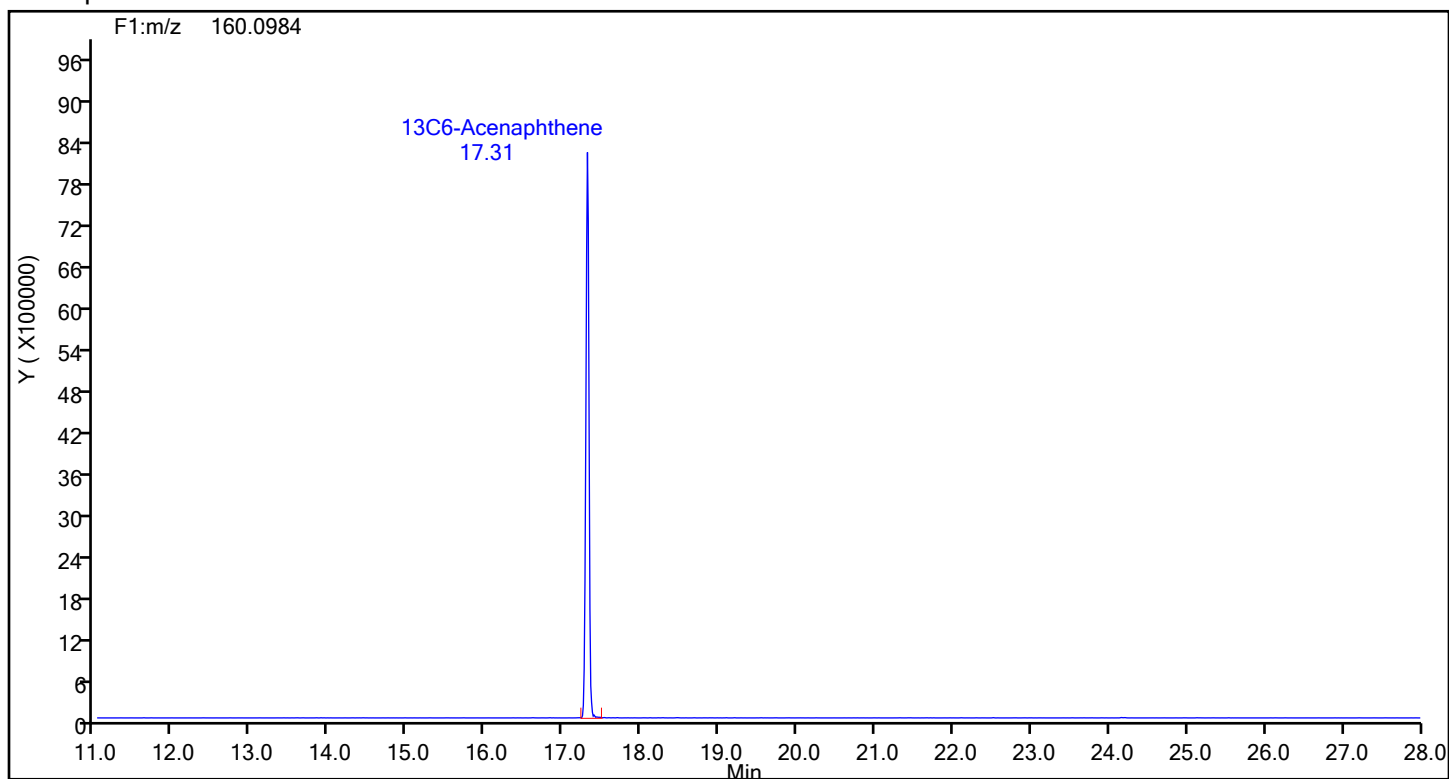
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



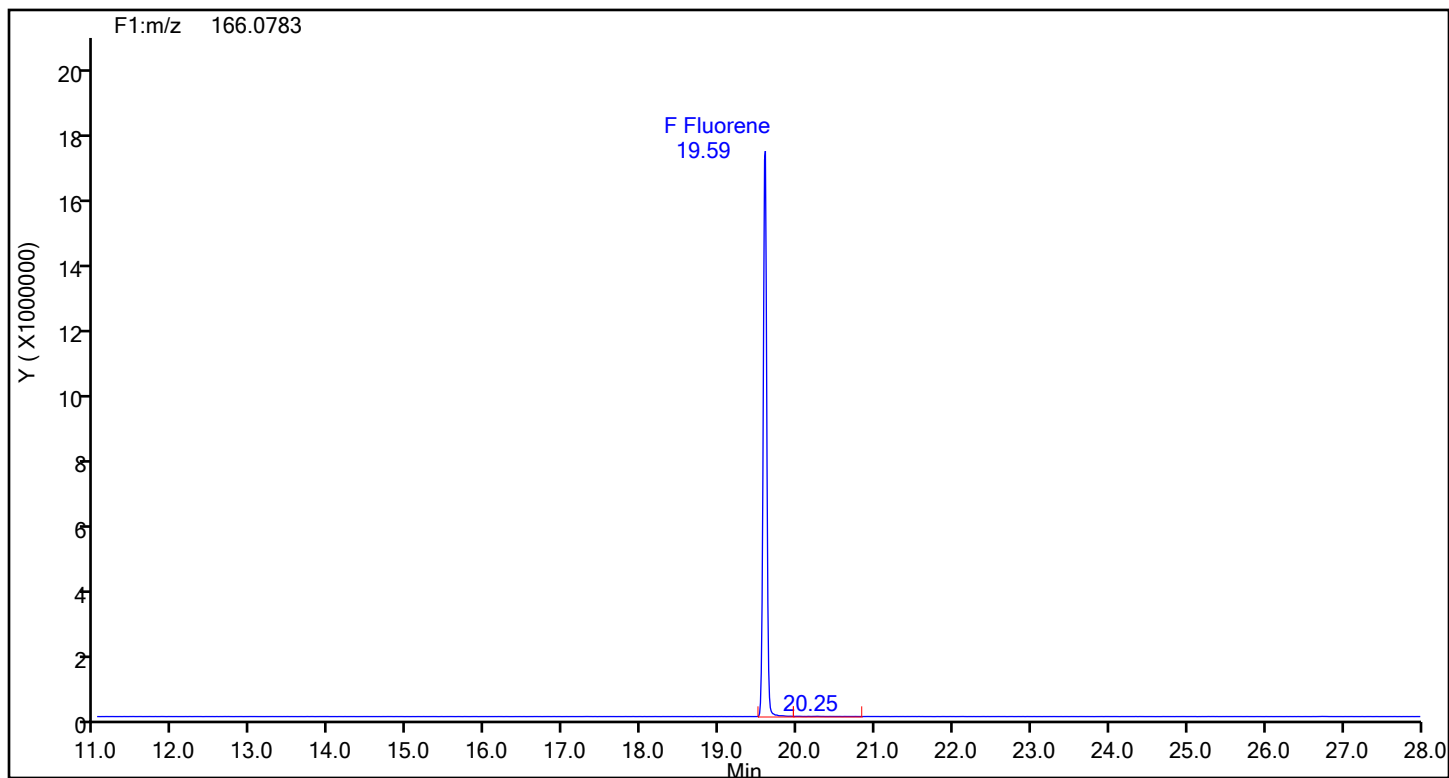
Acenaphthene Standards



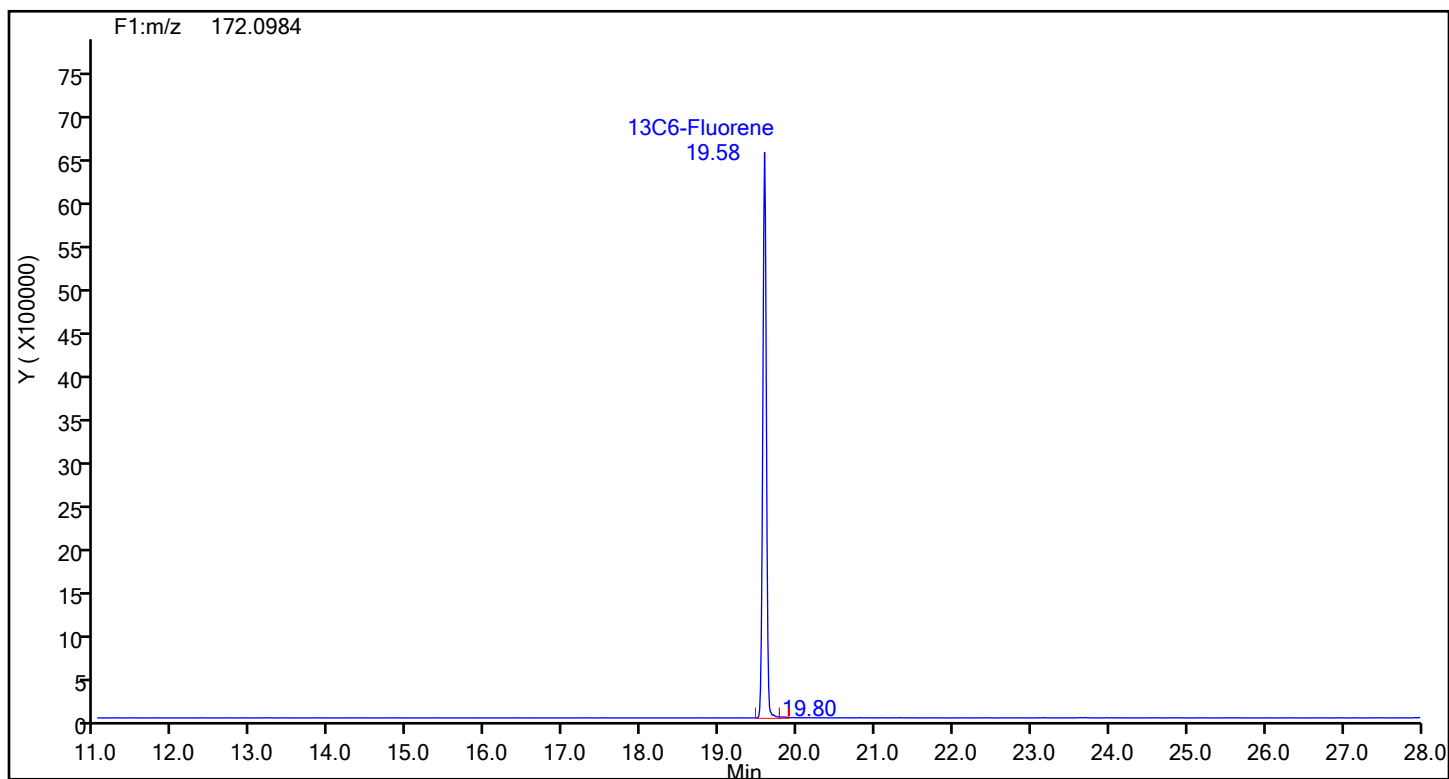
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

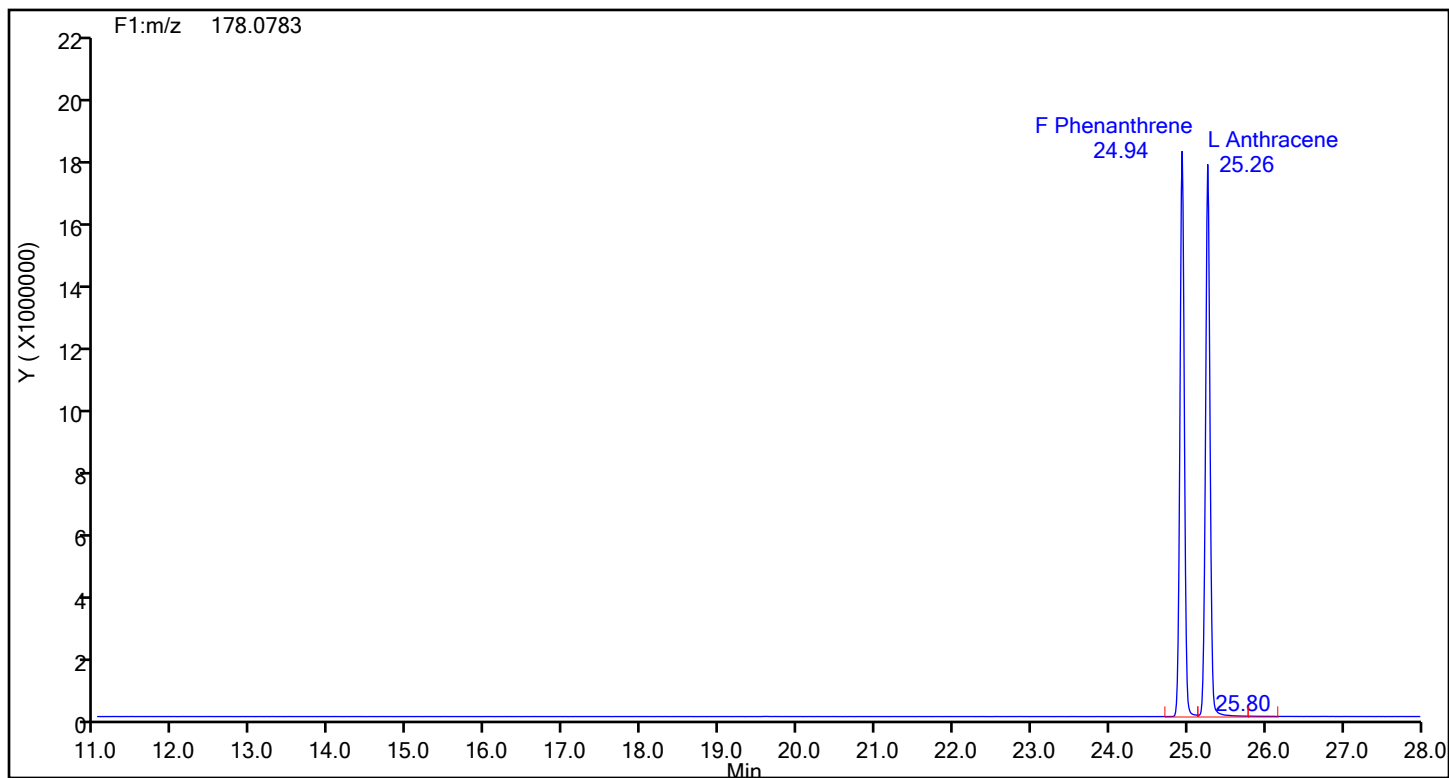


Fluorene Standards

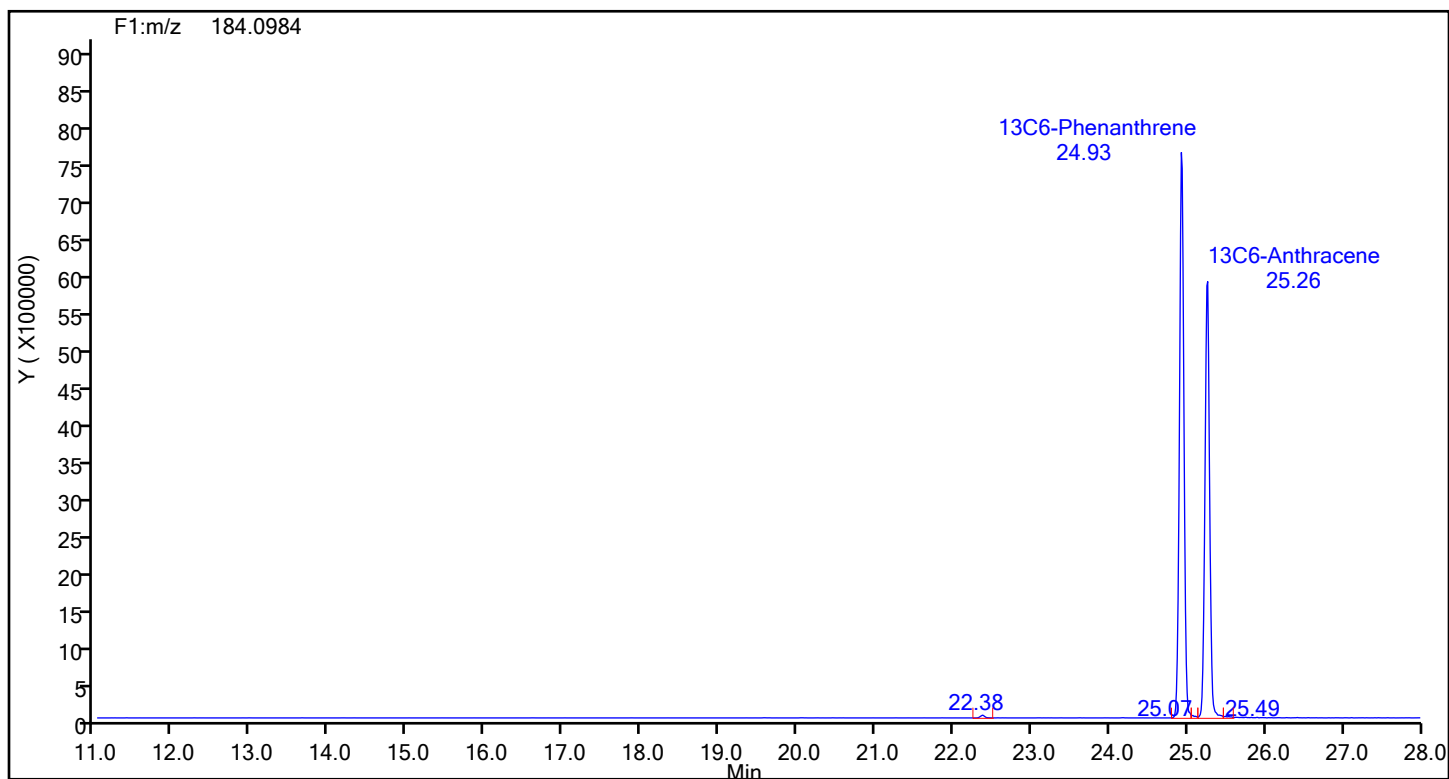


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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene

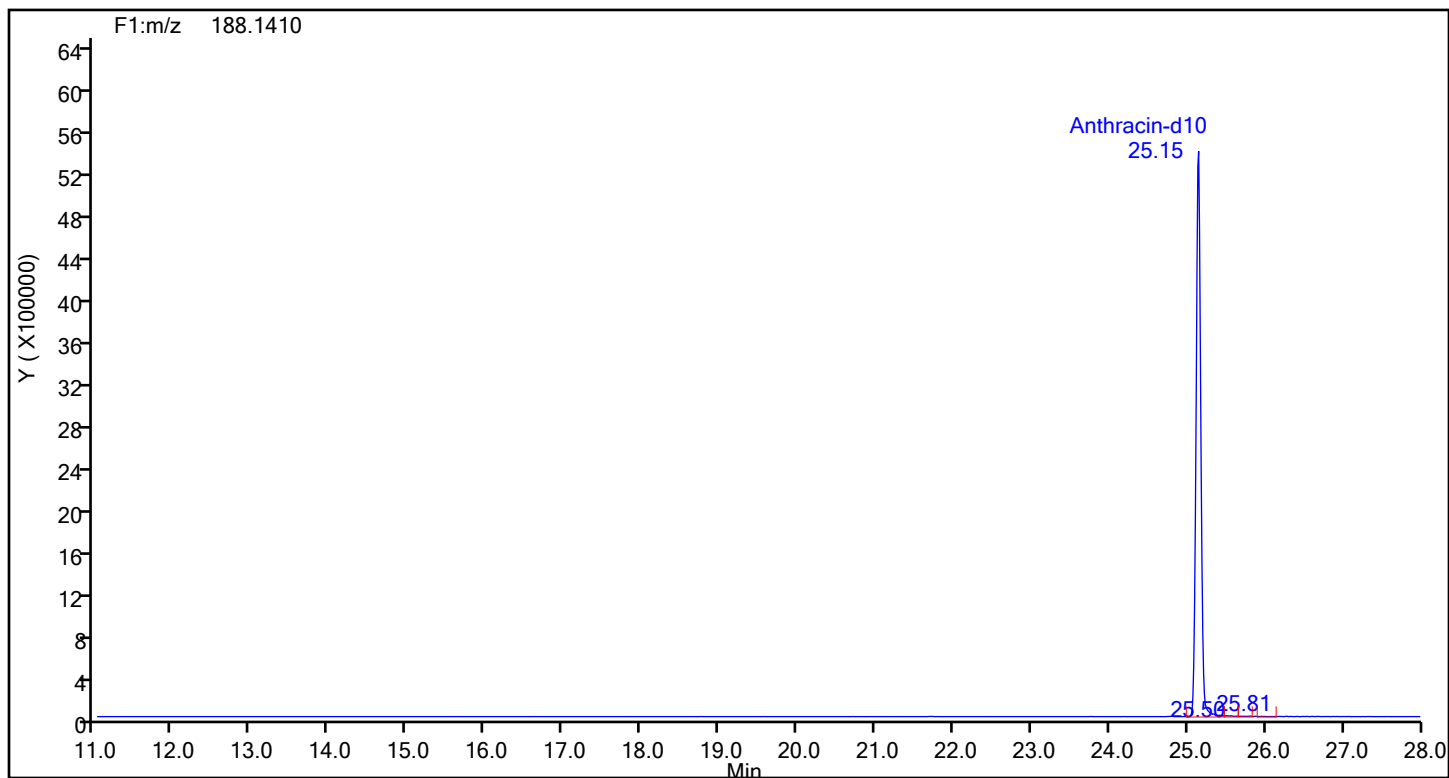


Phenanthrene Standards

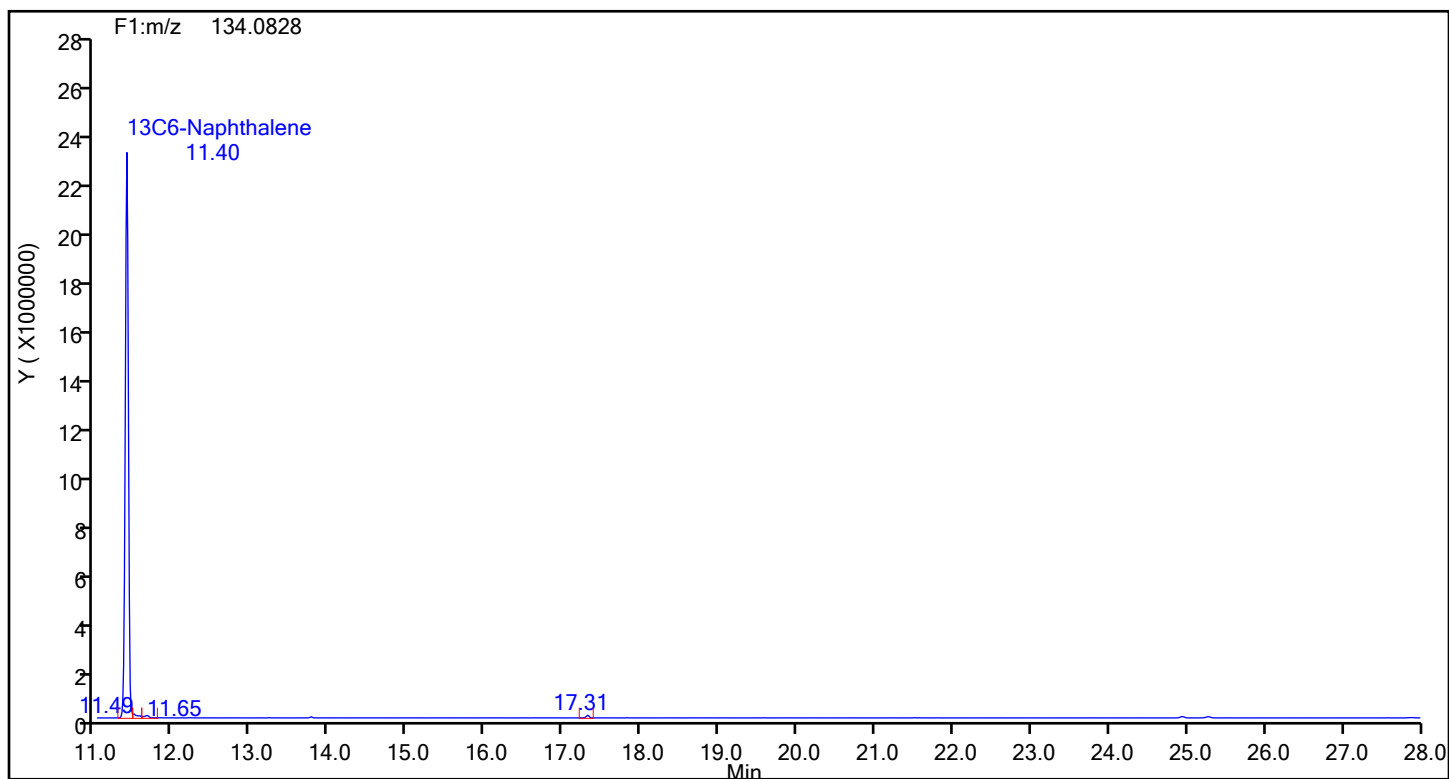


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Anthracin-d10



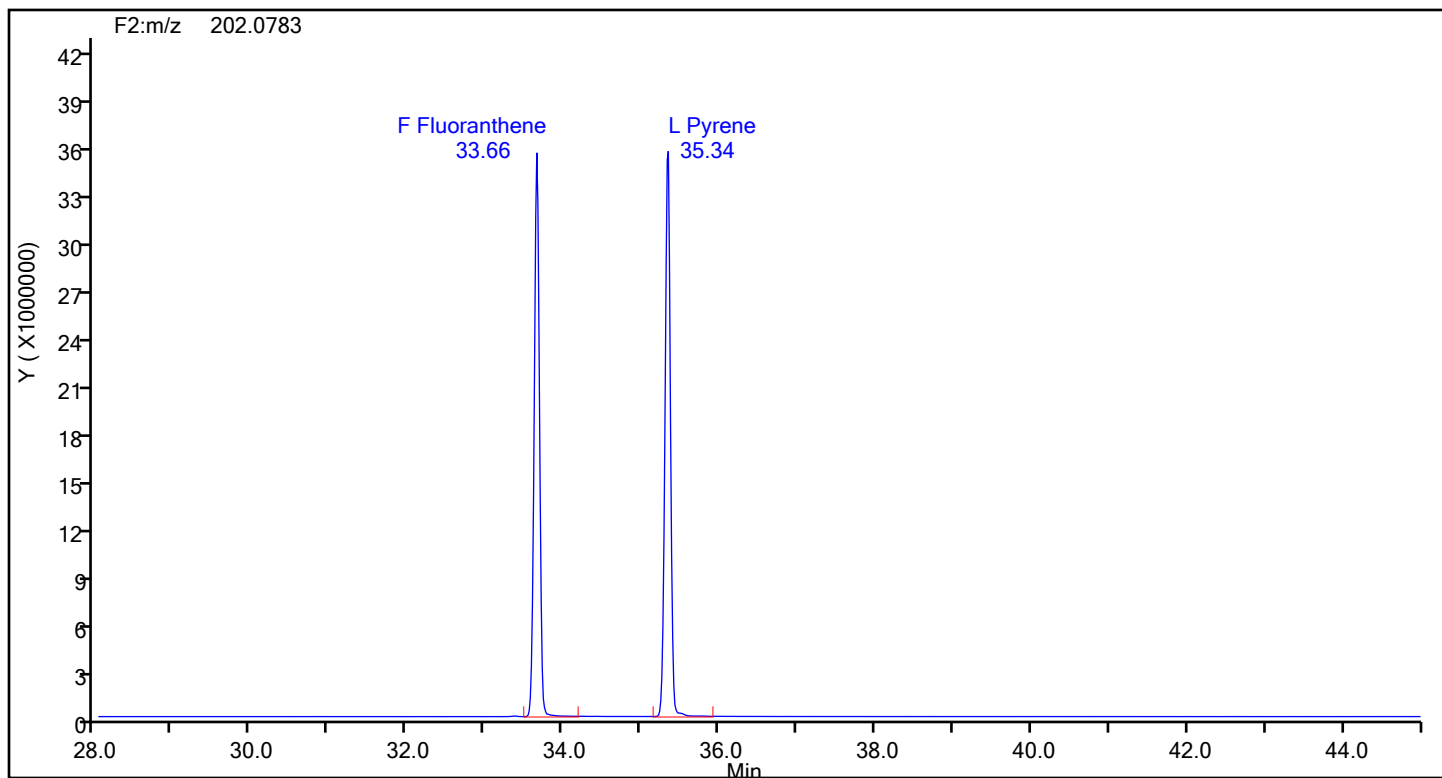
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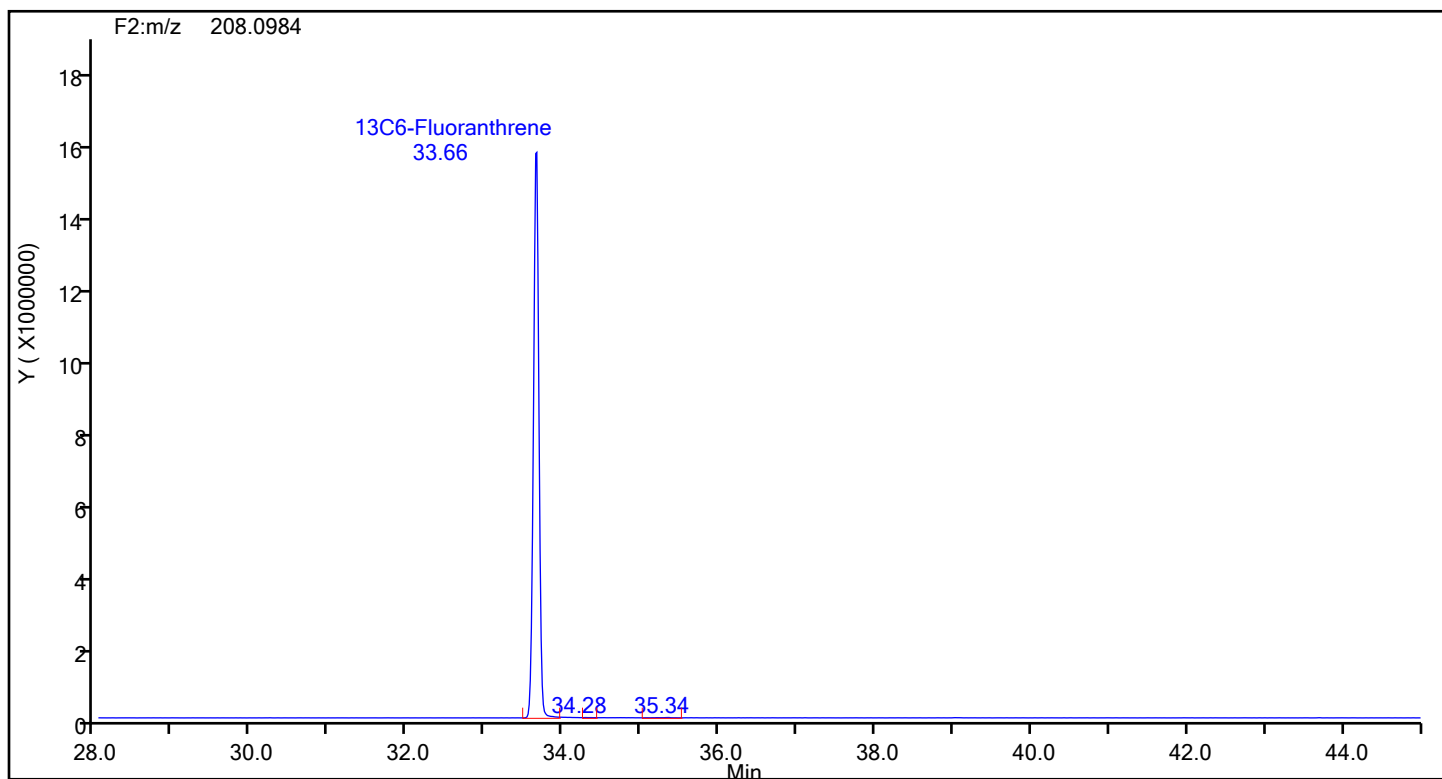
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Fluoranthene



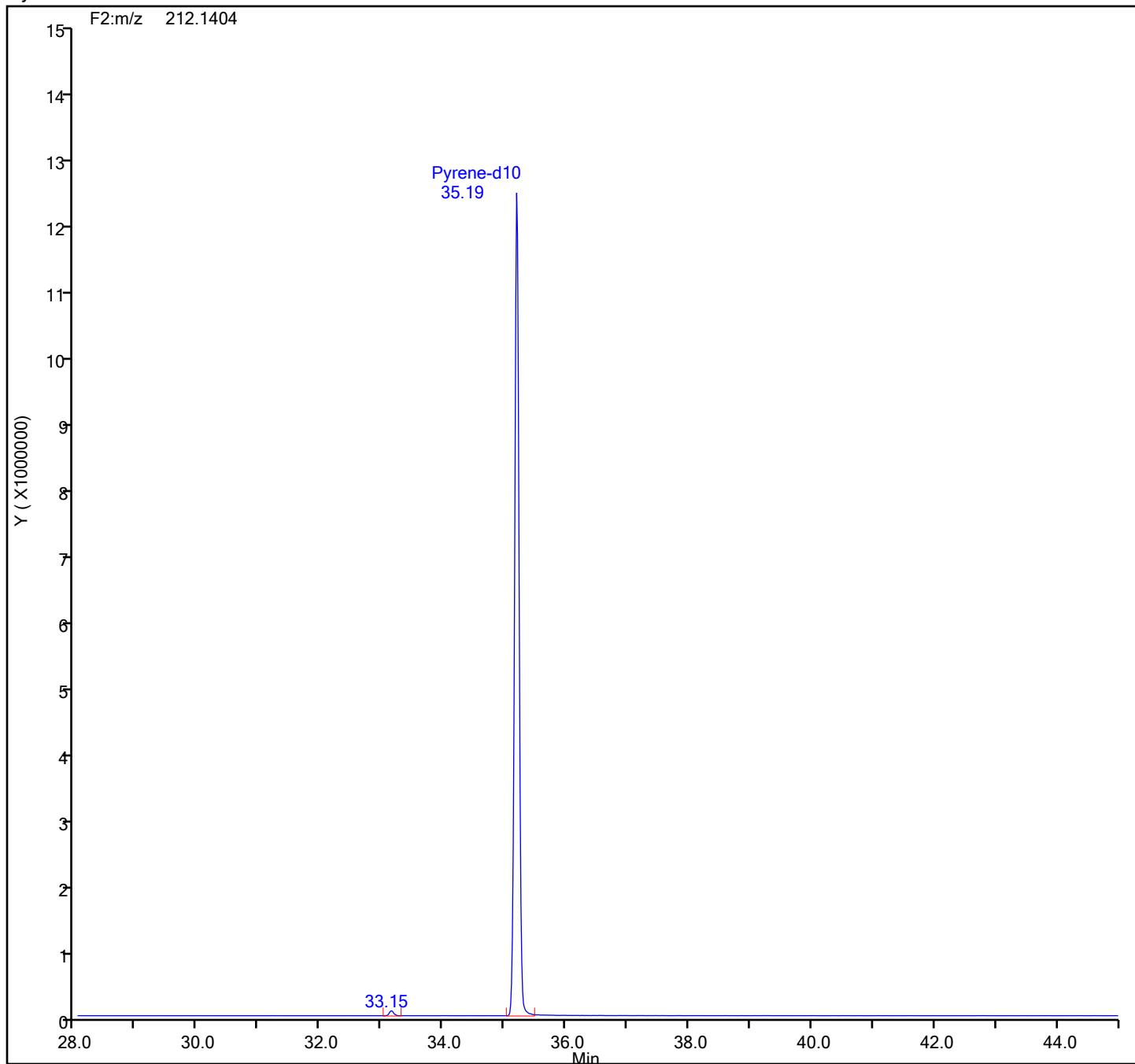
Fluoranthene Standards



Eurofins Knoxville

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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

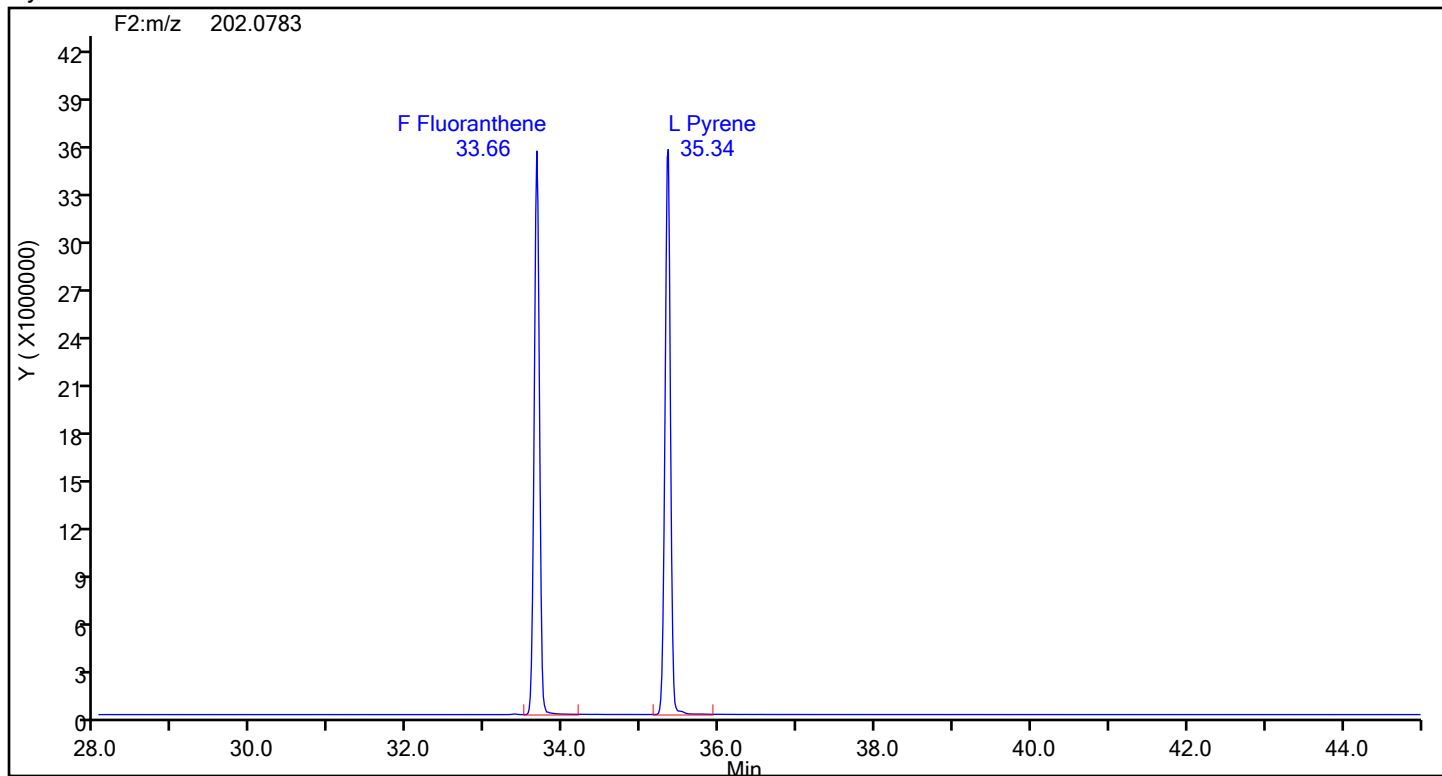
Pyrene-d10 Standards



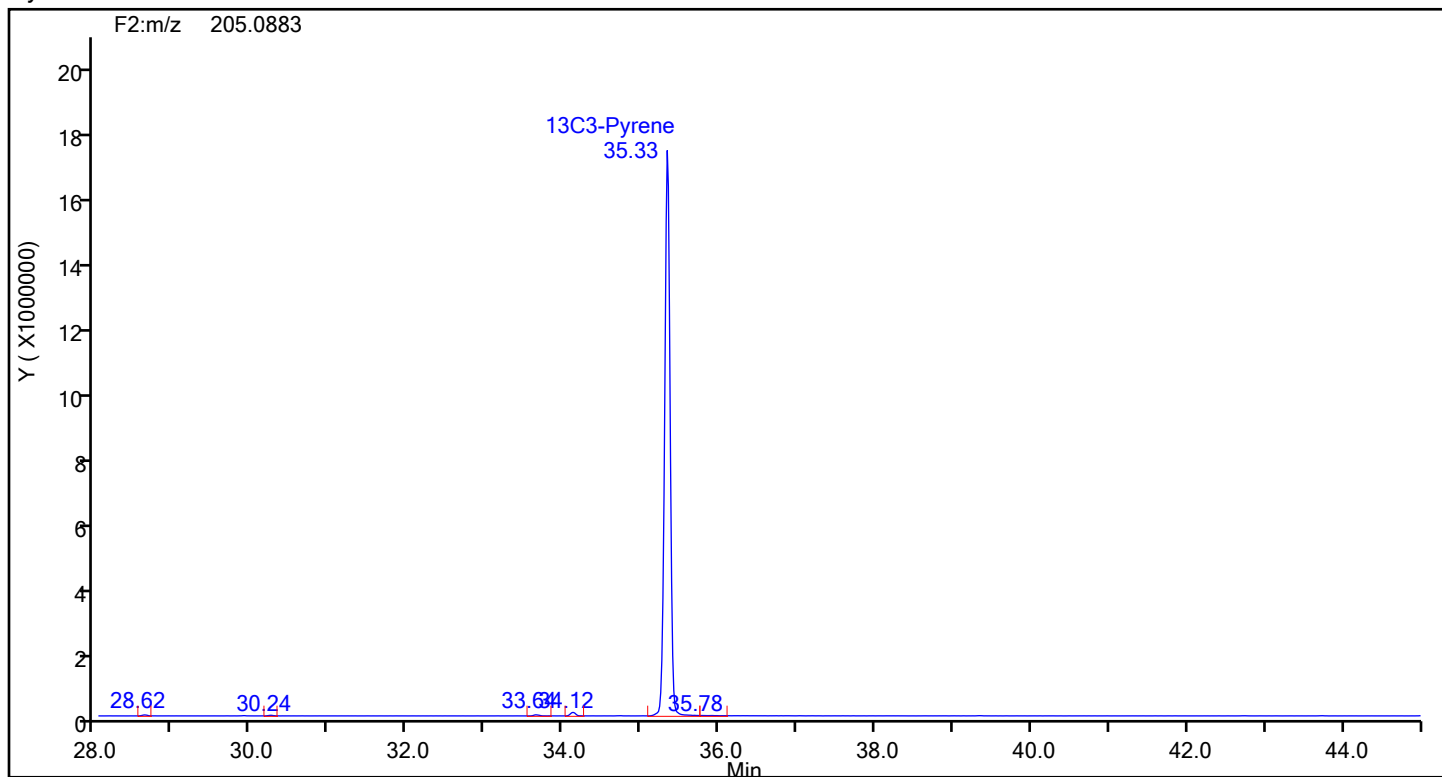
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



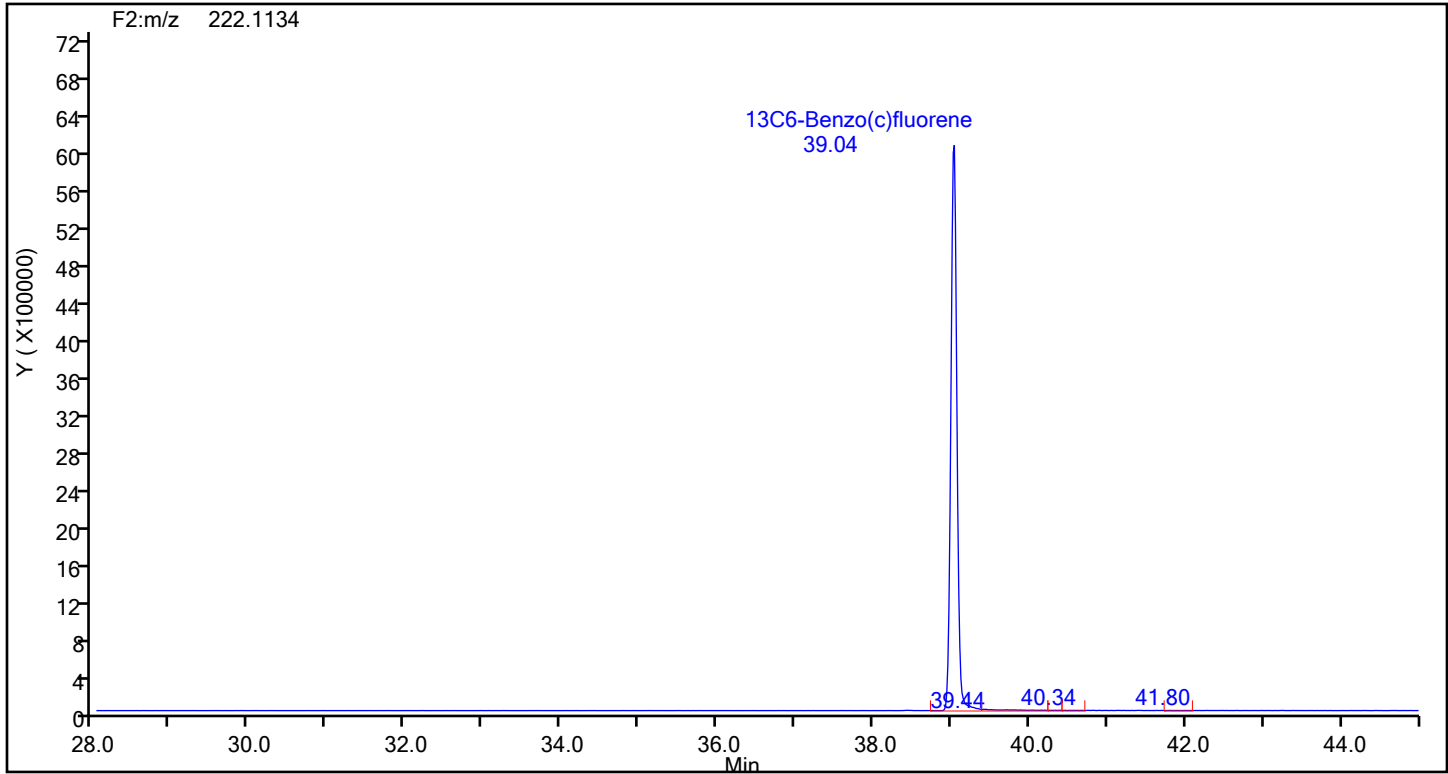
Pyrene Standards



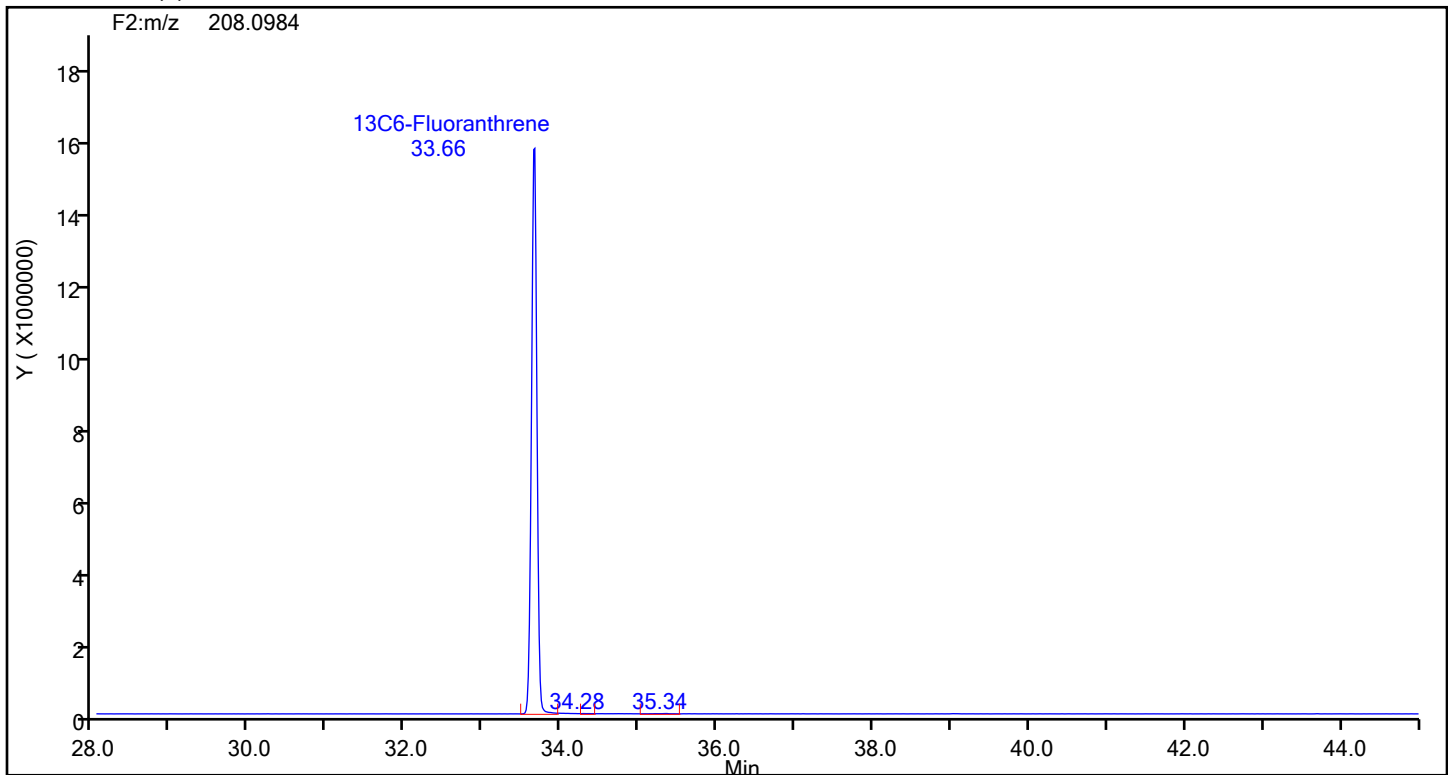
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



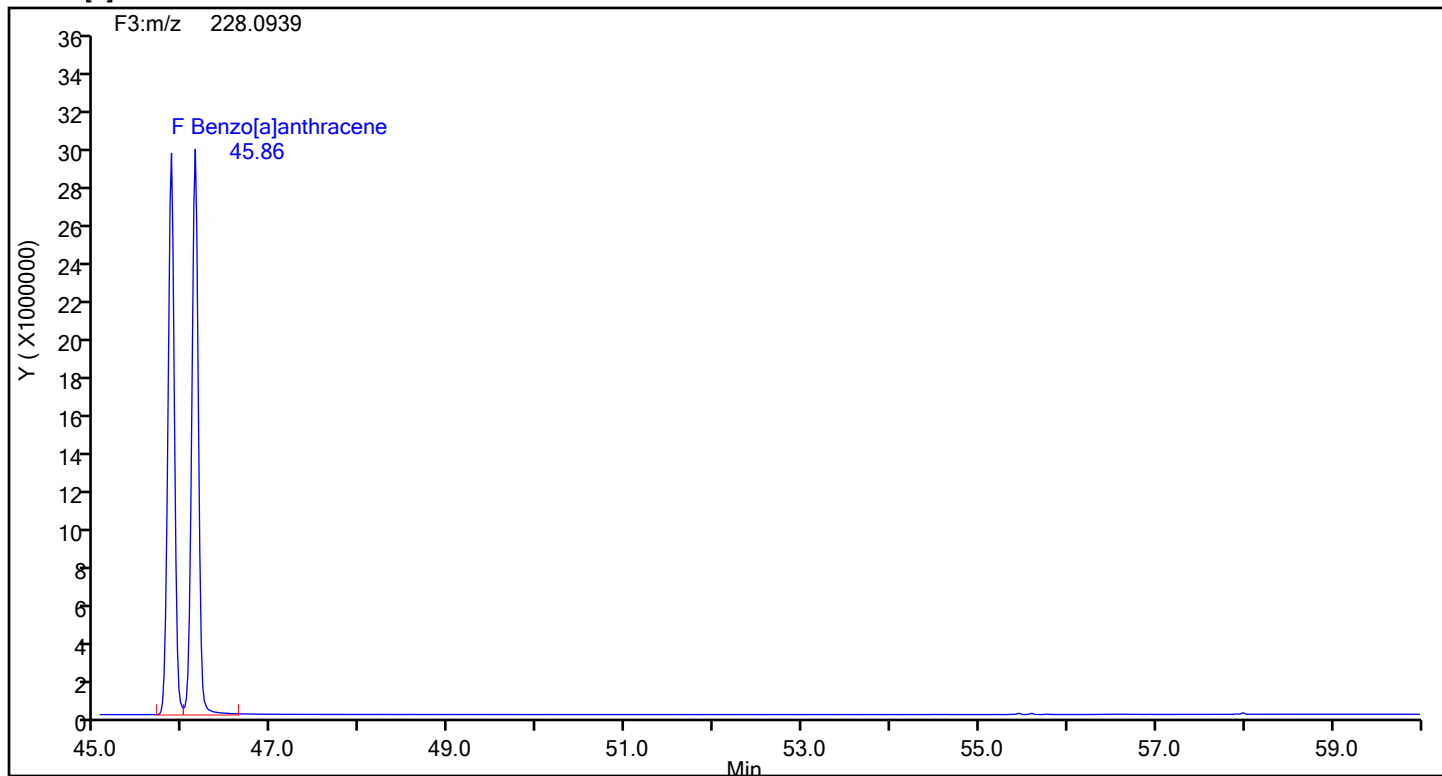
13C6-Benzo(c)fluorene Standards



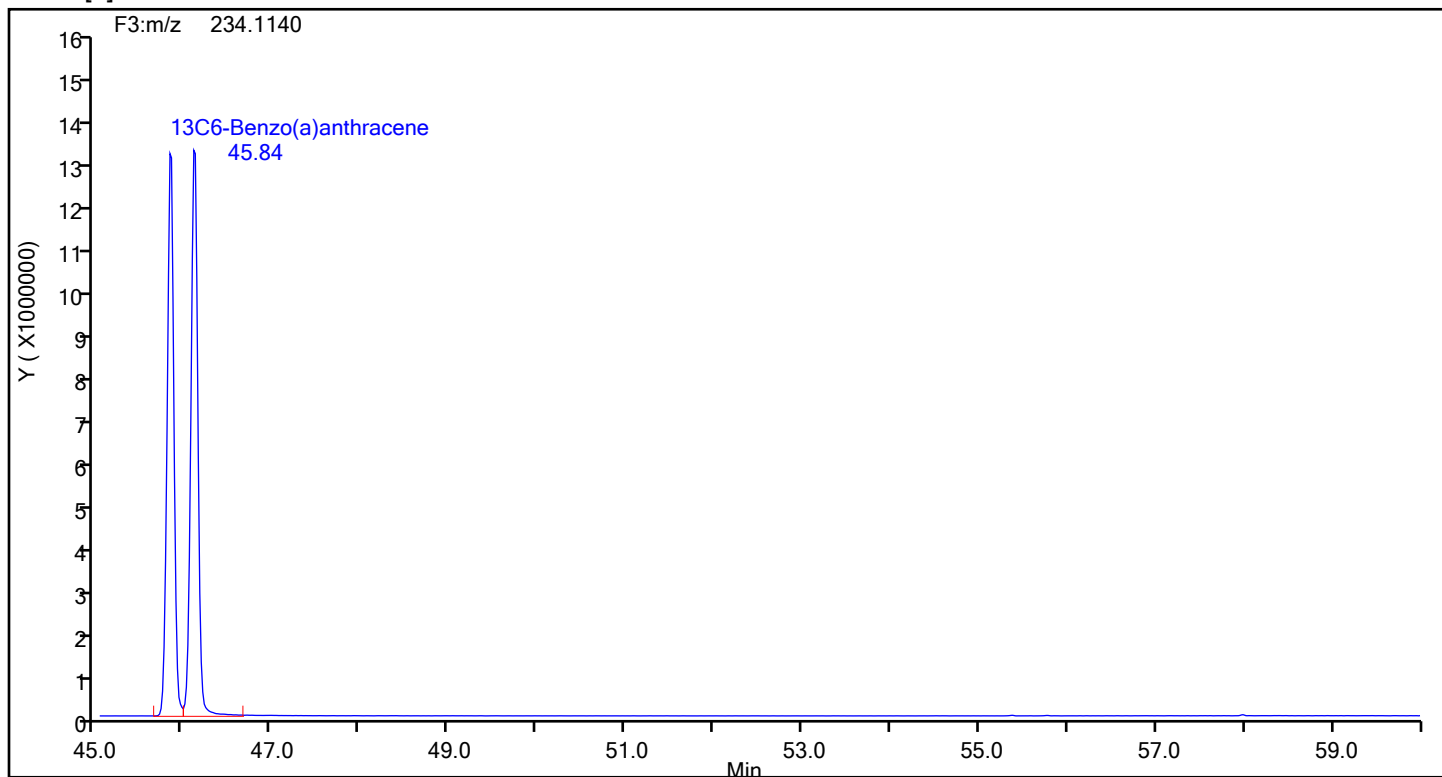
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[a]anthracene



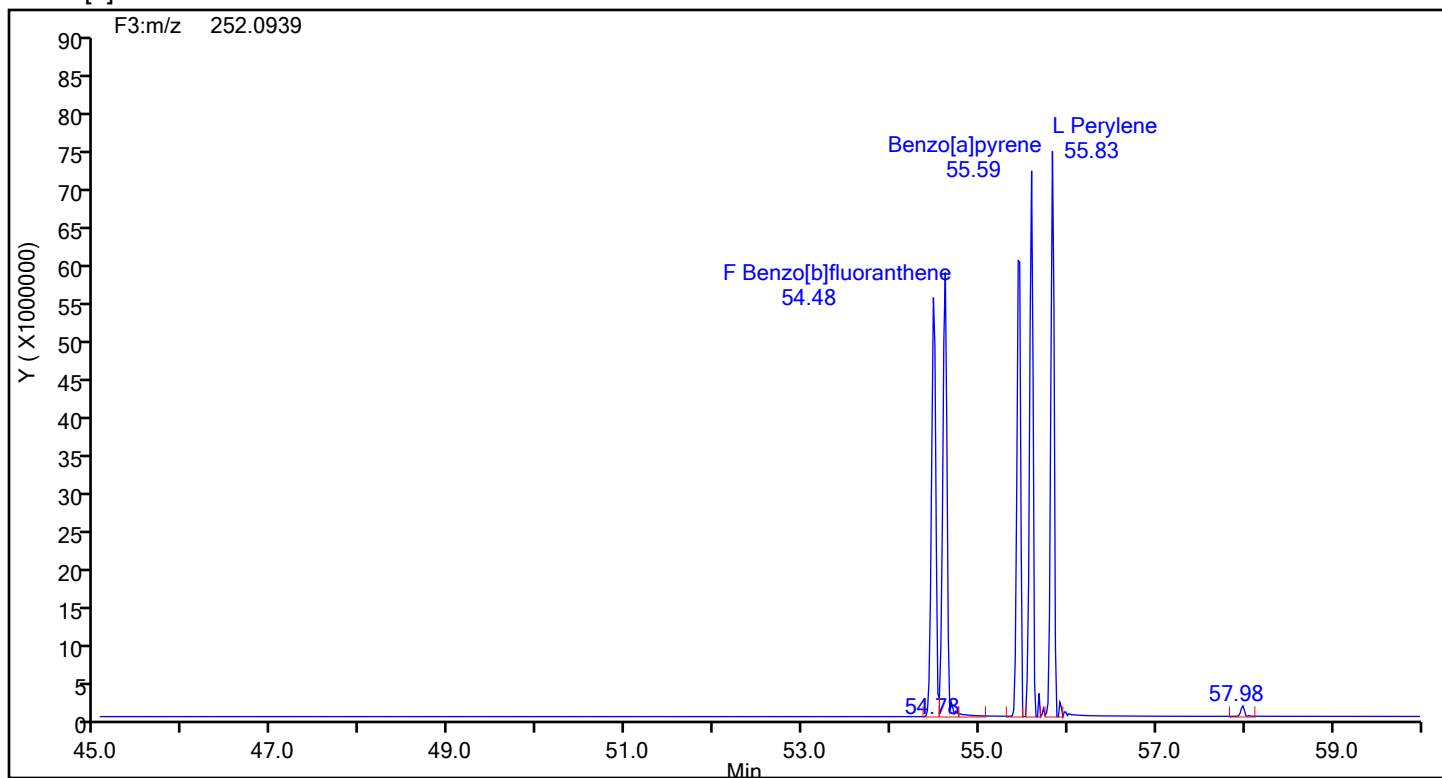
Benzo[a]anthracene Standards



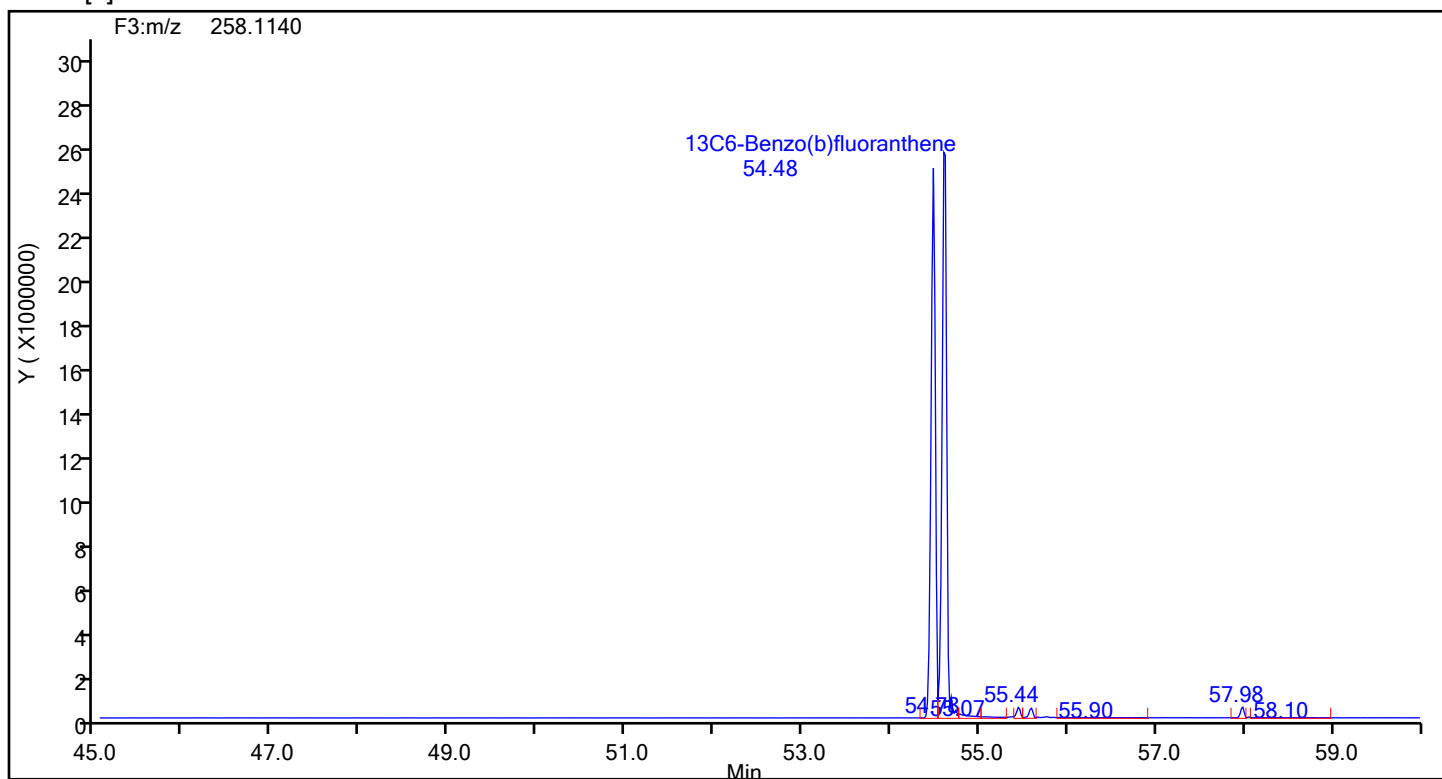
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Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



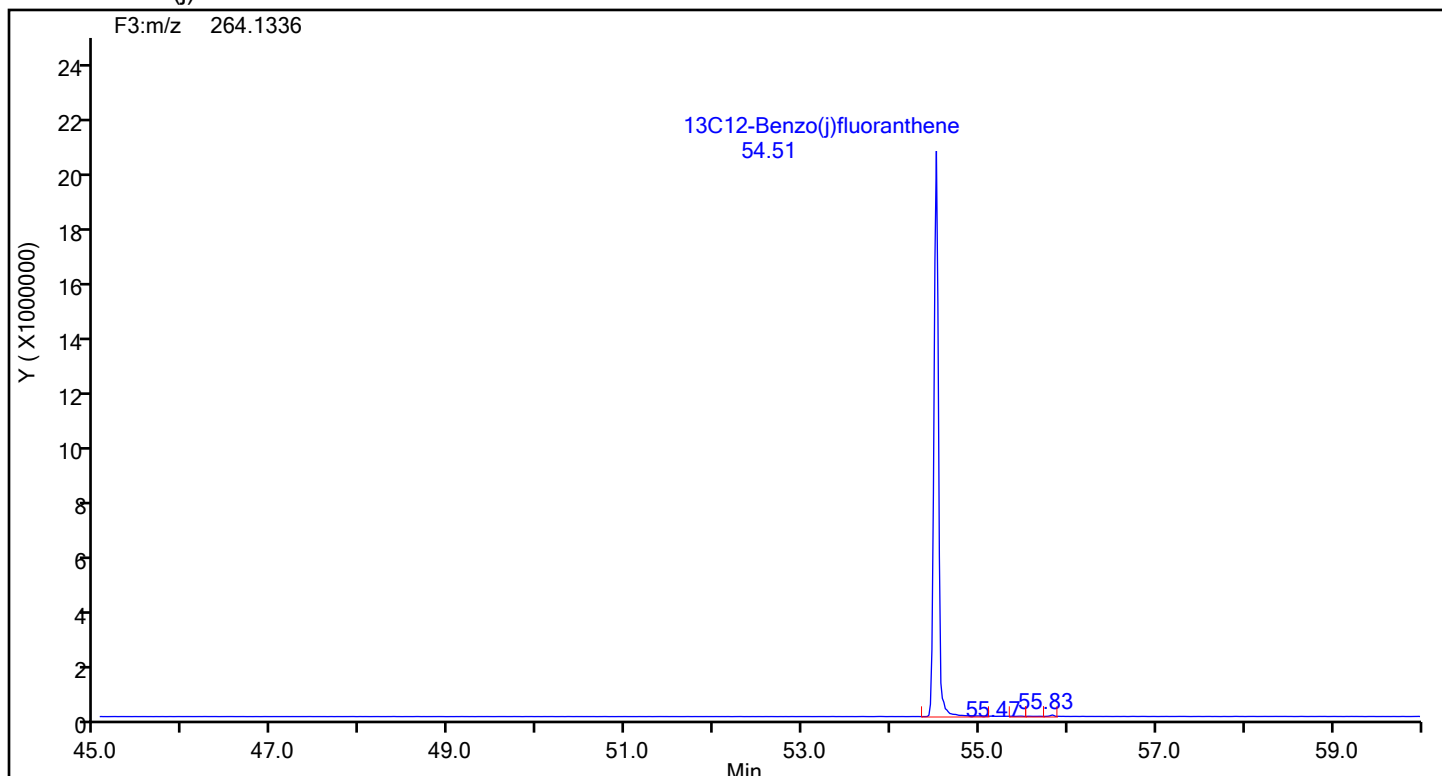
Benzo[b]fluoranthene Standards



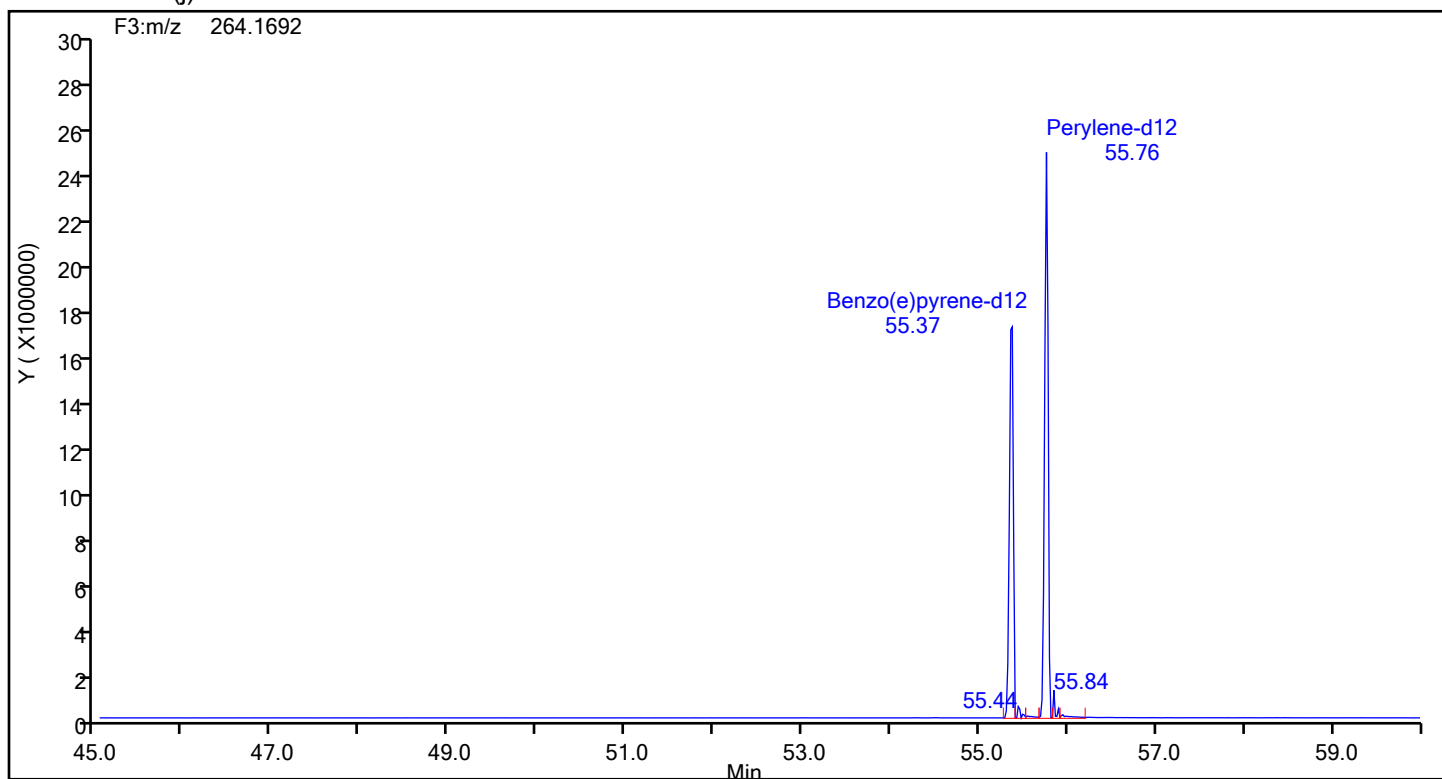
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Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



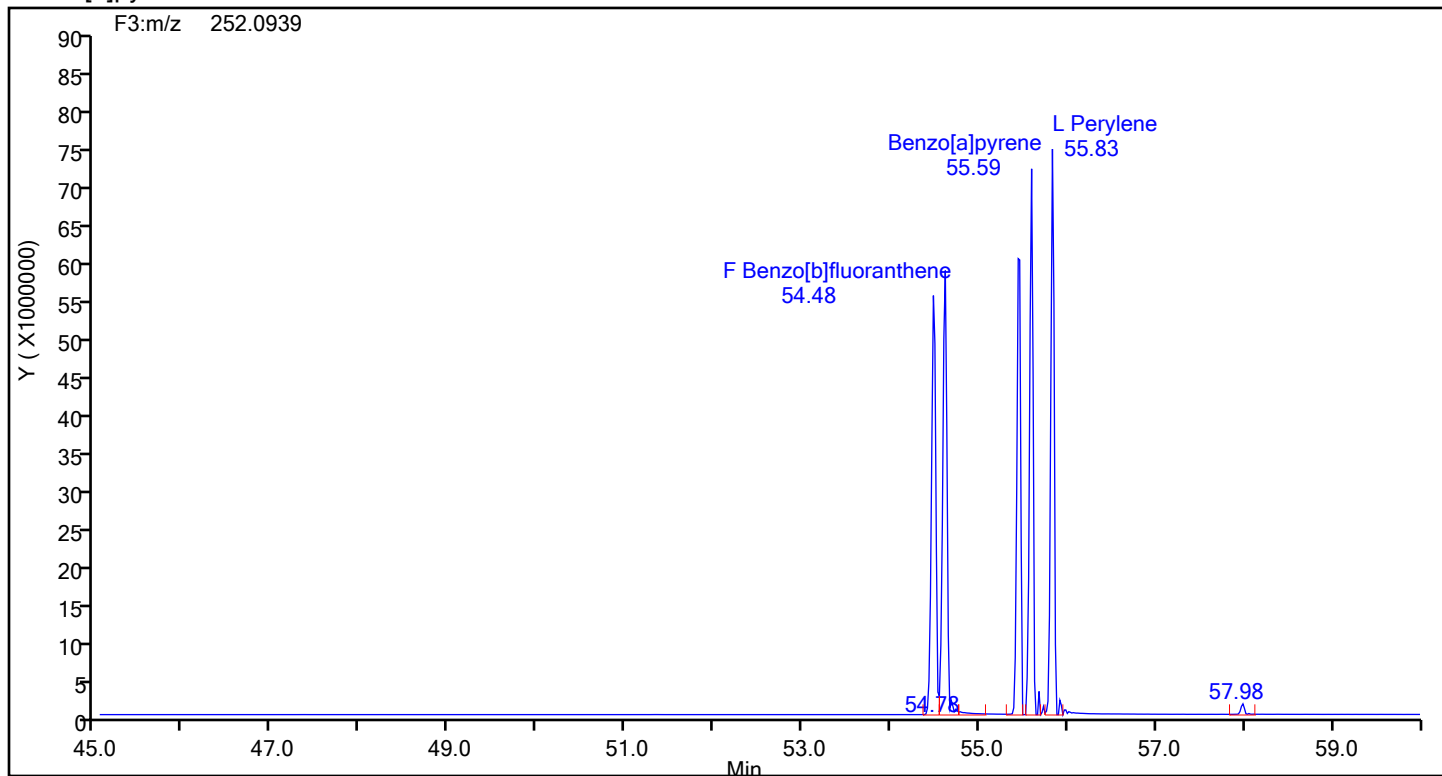
13C12-Benzo(j)fluoranthene Standards



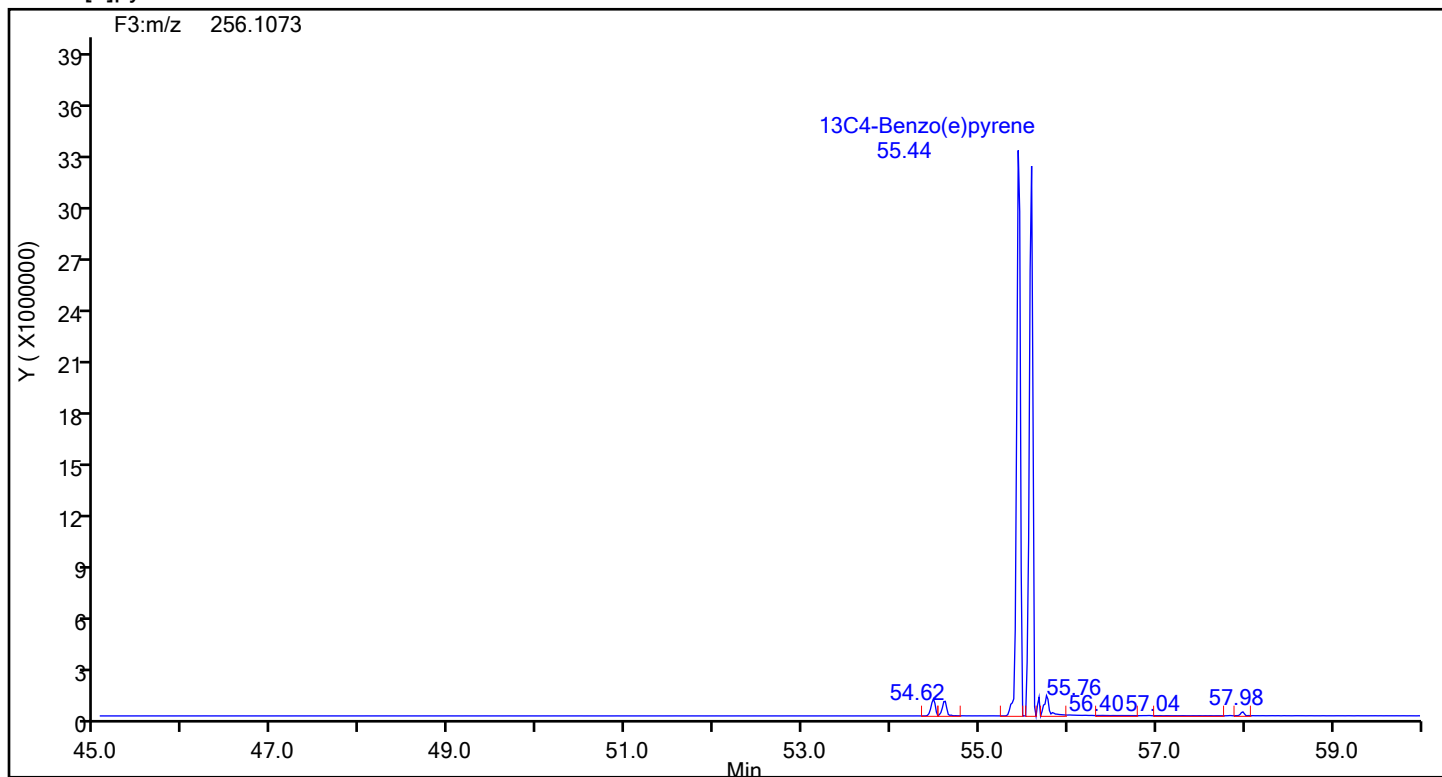
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Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



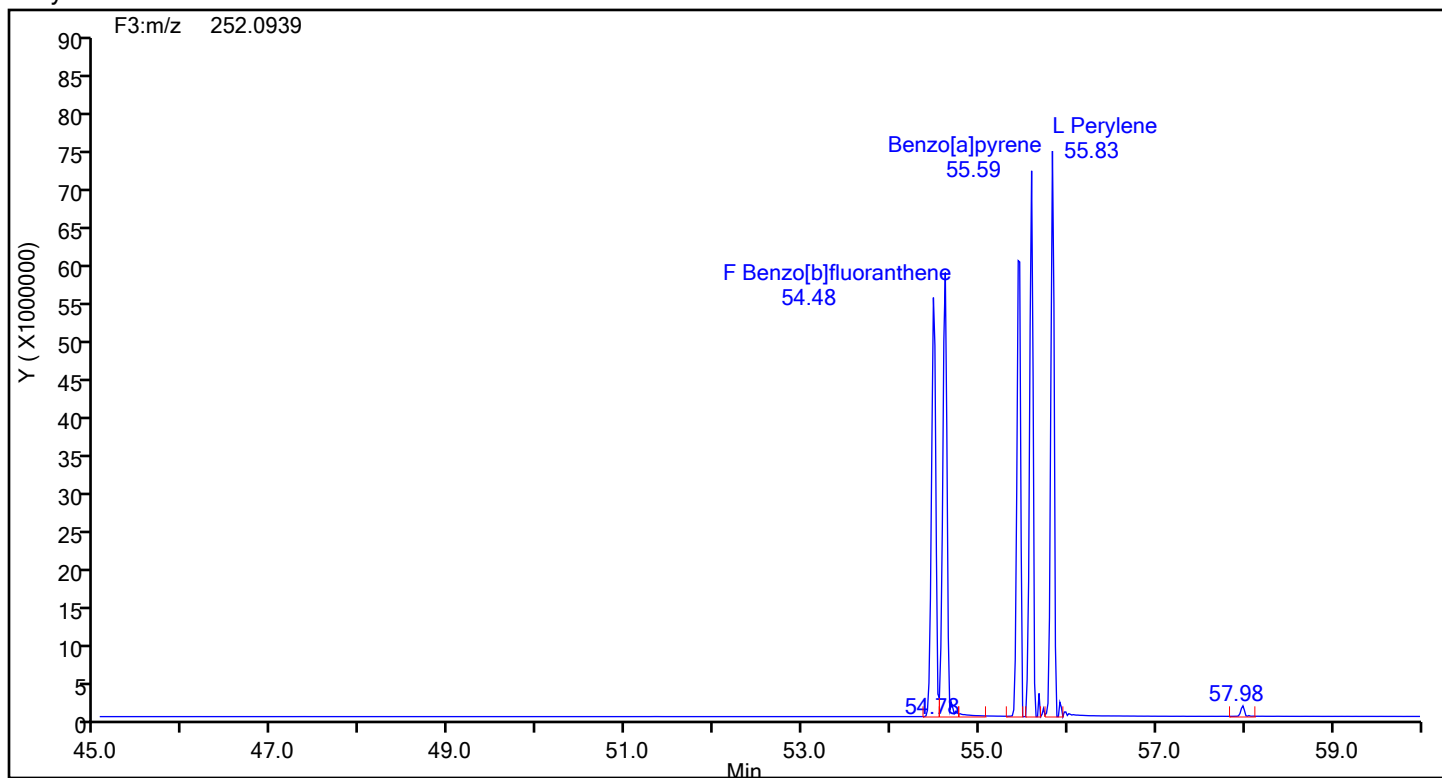
Benzo[e]pyrene Standards



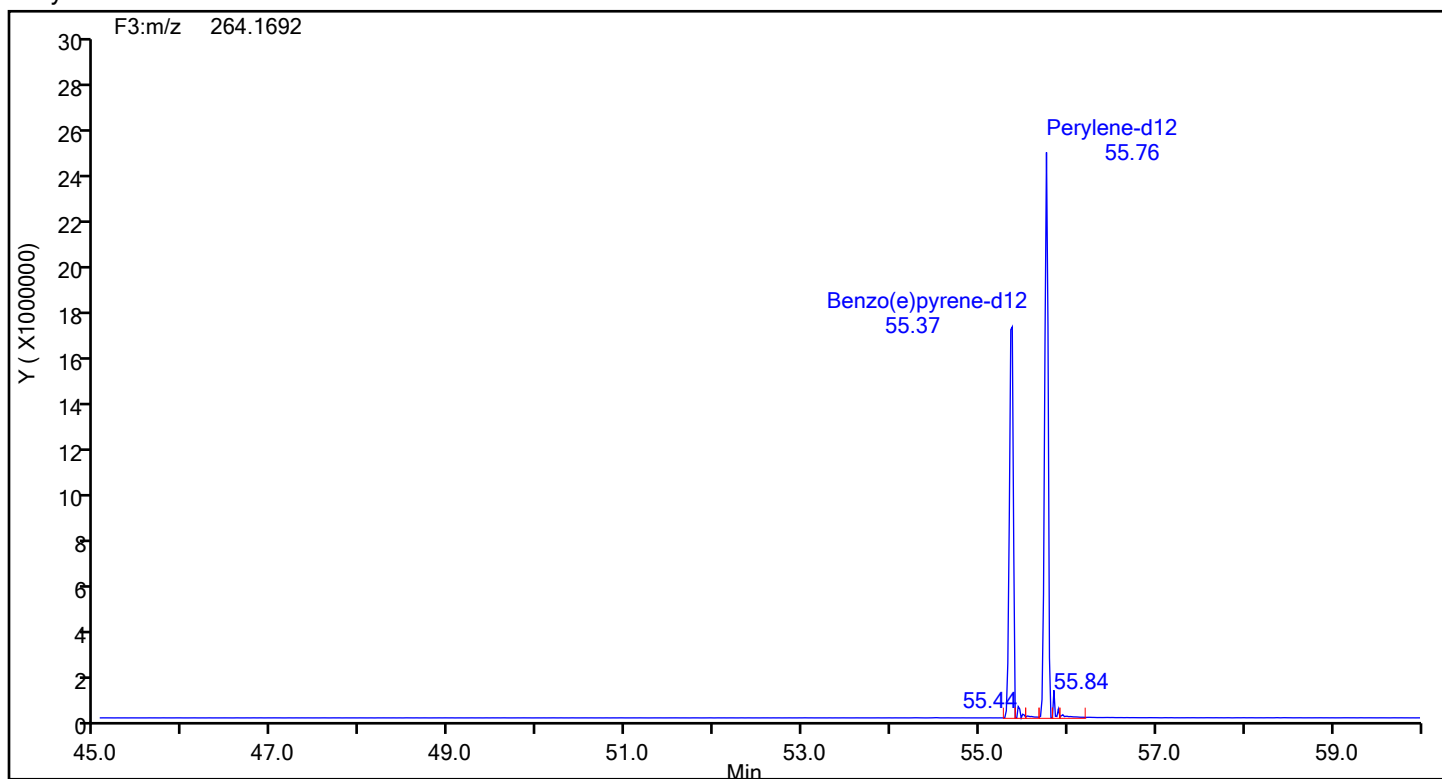
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Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



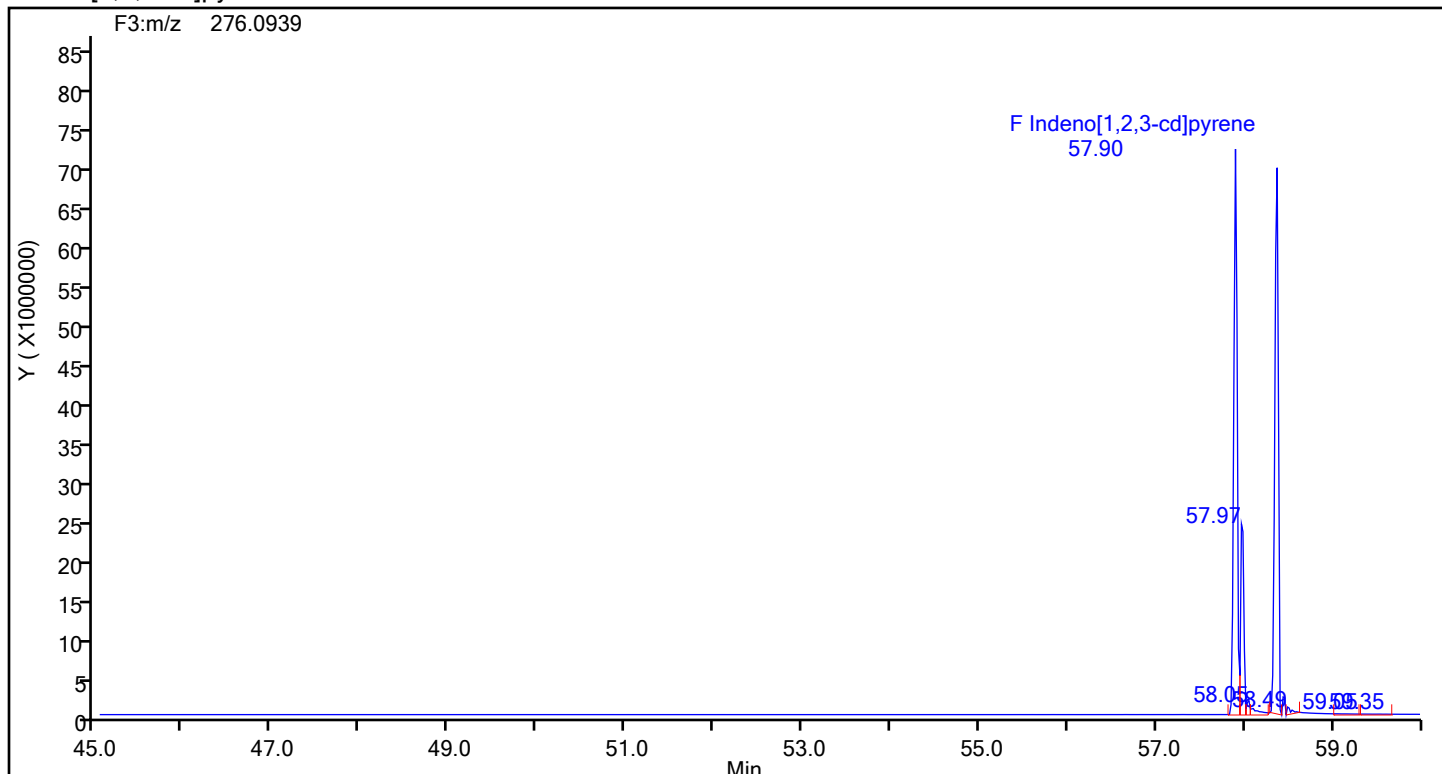
Perylene Standards



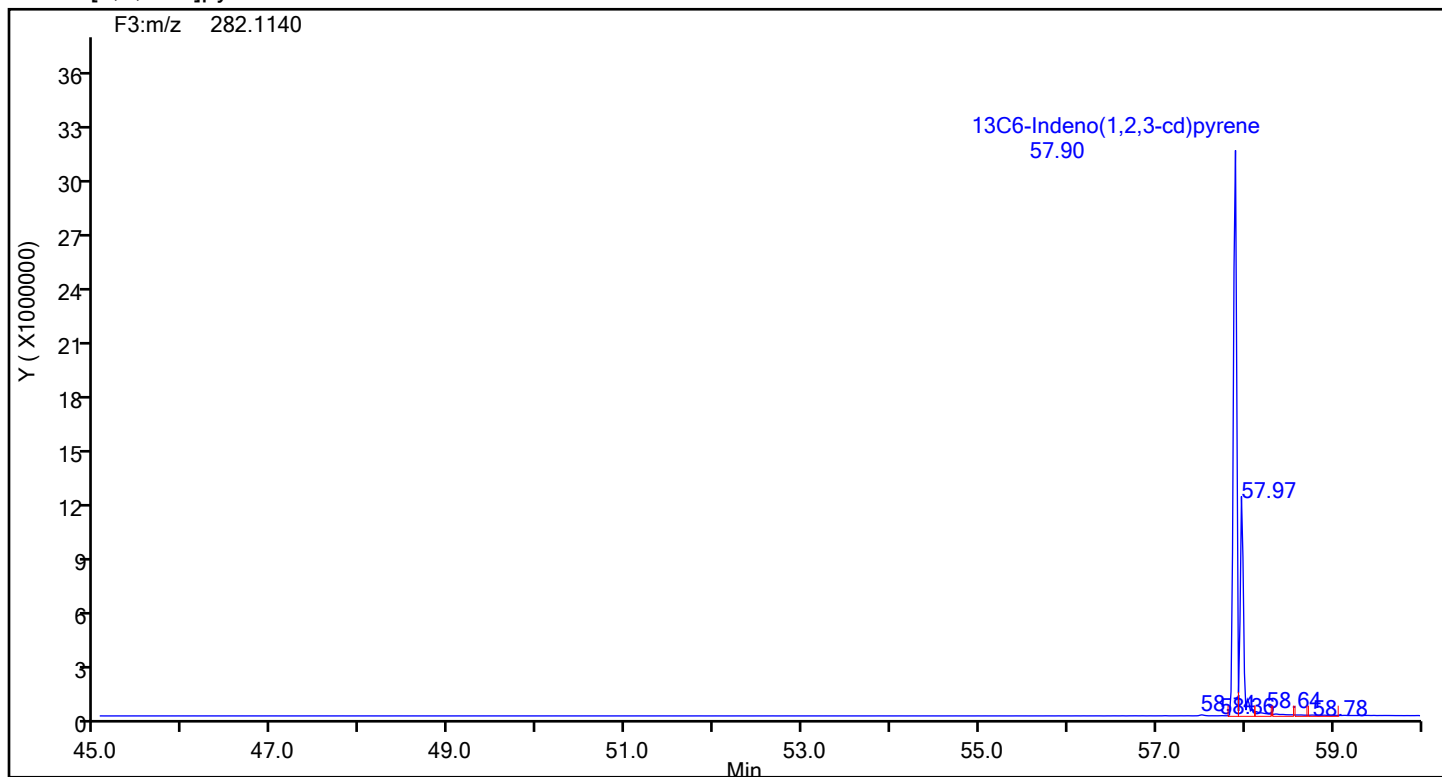
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

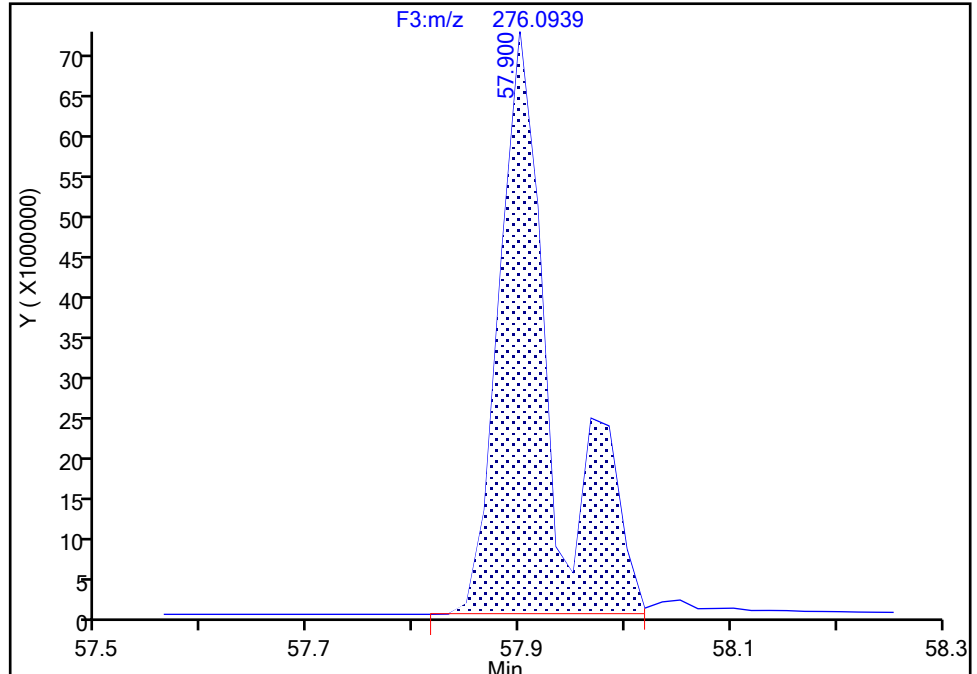
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Lims ID: CCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector: F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

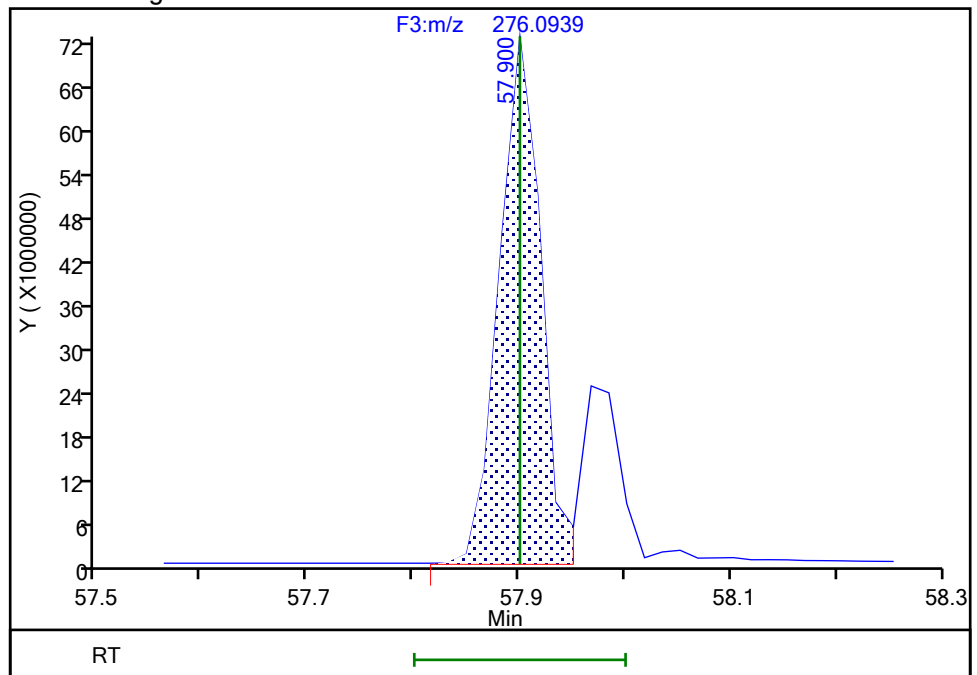
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Area: 255468229
Amount: 273.5281
Amount Units: pg/ul

Processing Integration Results



RT: 57.90
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Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 20-Jul-2024 03:11:03 -04:00:00 (UTC)

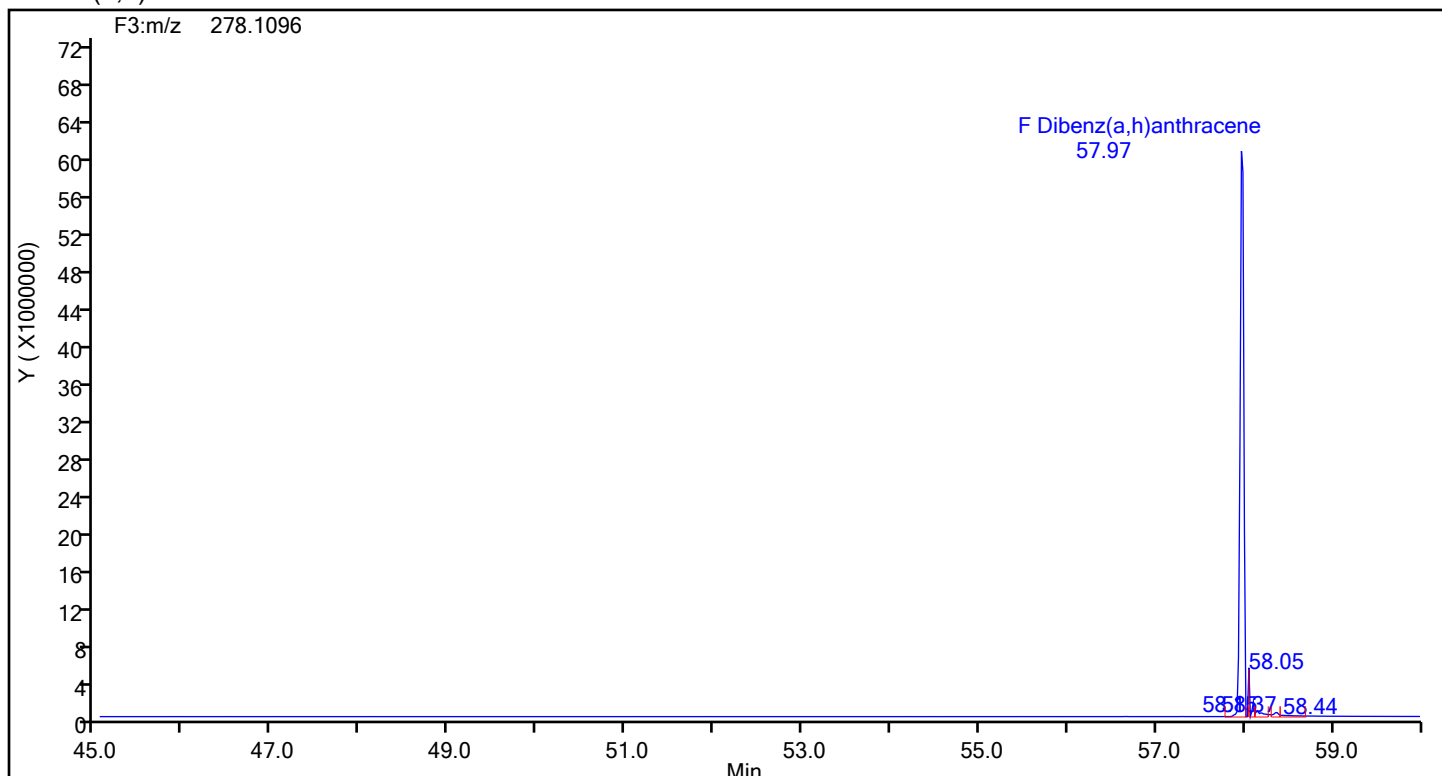
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

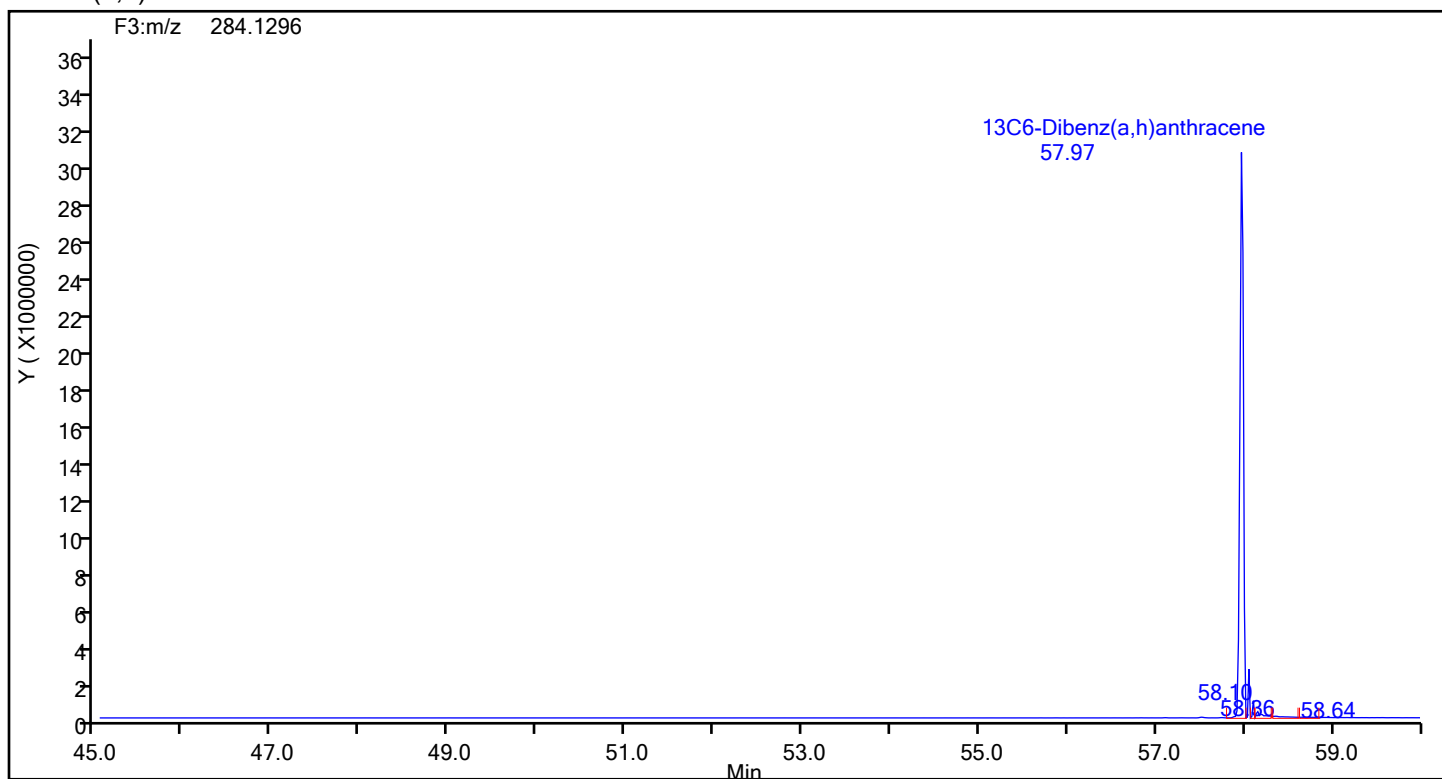
Eurofins Knoxville

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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



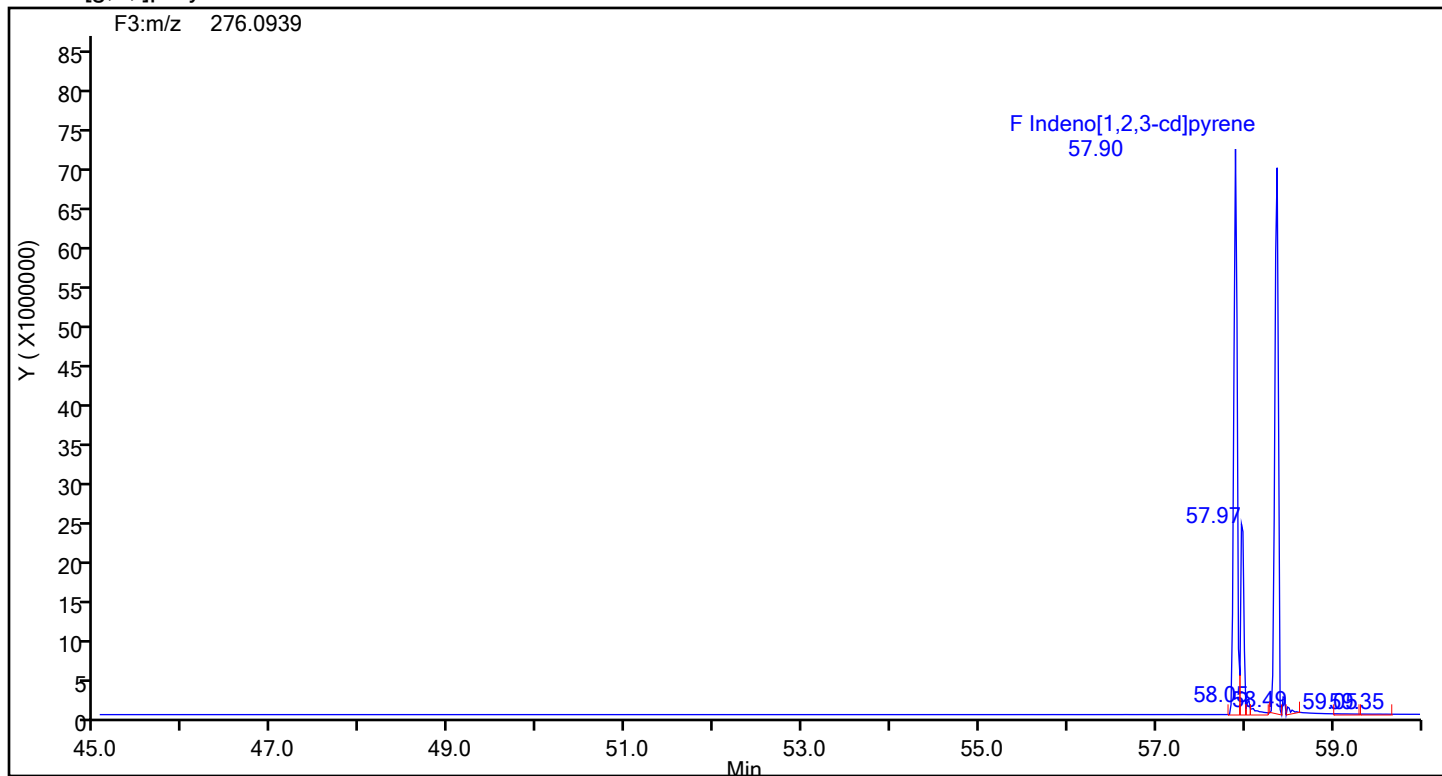
Dibenz(a,h)anthracene Standards



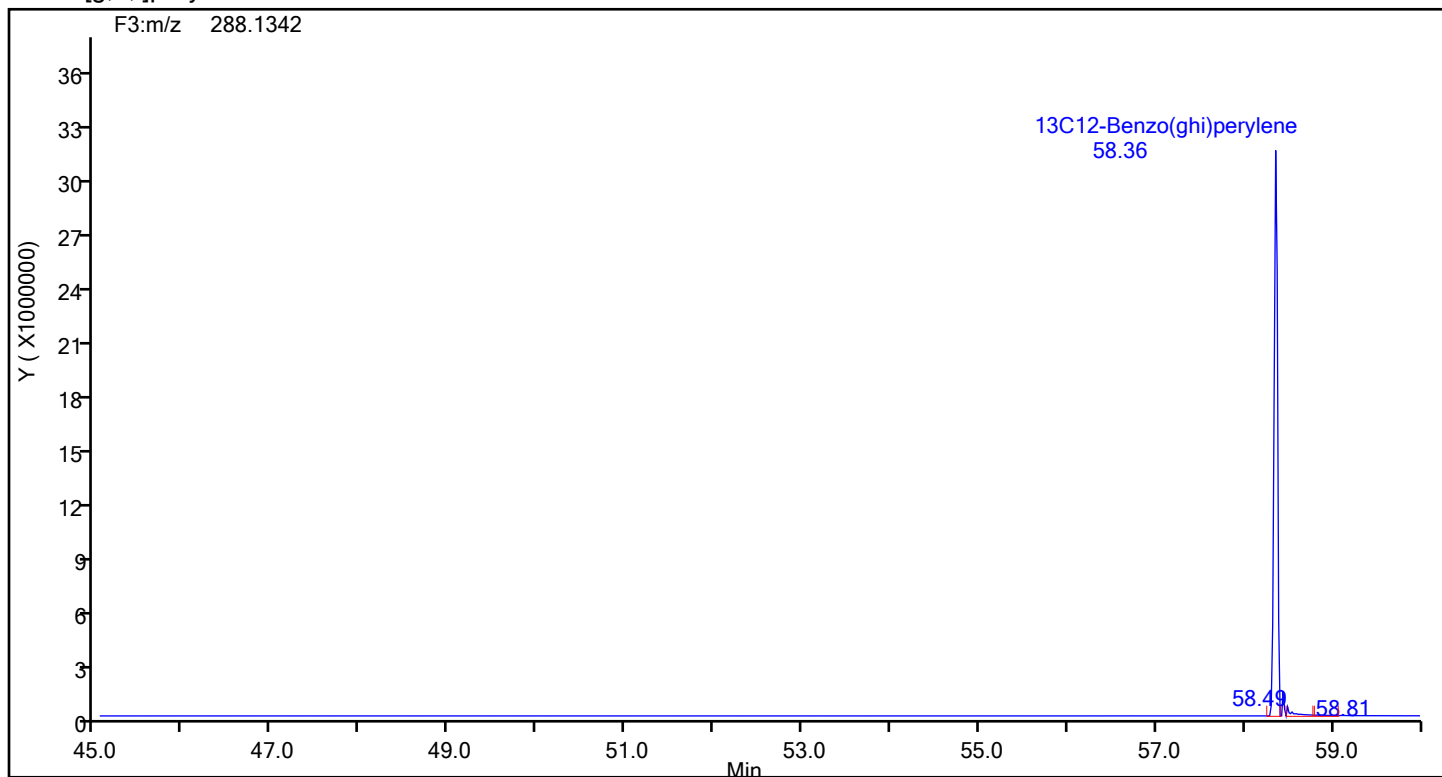
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88999 Sample Line#: 1
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-88192/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8819221-b_20240719005604</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 00:57</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	1119		75.0	75.0	0.0862
91-57-6	2-Methylnaphthalene	20.85	J	75.0	75.0	0.0421
208-96-8	Acenaphthylene	0.6786	J	3.00	3.00	0.0314
83-32-9	Acenaphthene	8.559	J	30.0	30.0	0.0426
86-73-7	Fluorene	7.319	J	30.0	30.0	0.0447
85-01-8	Phenanthrene	18.18		6.00	6.00	0.0509
120-12-7	Anthracene	0.6294	J	30.0	30.0	0.0484
206-44-0	Fluoranthene	15.46		6.00	6.00	0.0445
129-00-0	Pyrene	55.75		6.00	6.00	0.0418
56-55-3	Benzo[a]anthracene	0.1461	J	6.00	6.00	0.0525
218-01-9	Chrysene	1.403	J	6.00	6.00	0.0542
205-99-2	Benzo[b]fluoranthene	0.7774	J	30.0	30.0	0.00941
207-08-9	Benzo[k]fluoranthene	0.1864	J	6.00	6.00	0.00948
192-97-2	Benzo[e]pyrene	1.607	J	6.00	6.00	0.00870
50-32-8	Benzo[a]pyrene	1.130	J	3.00	3.00	0.00791
198-55-0	Perylene	0.3756	J	3.00	3.00	0.00747
193-39-5	Indeno[1,2,3-cd]pyrene	0.9852	J	3.00	3.00	0.00865
53-70-3	Dibenz(a,h)anthracene	0.1901	J	6.00	6.00	0.00432
191-24-2	Benzo[g,h,i]perylene	4.009	J	6.00	6.00	0.00706

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-88192/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8819221-b_20240719005604</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 00:57</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	72		20-130
STL03357	13C6-2-Methylnaphthalene	67		20-130
189811-56-1	13C6-Acenaphthylene	93		20-130
189811-57-2	13C6-Acenaphthene	84		20-130
STL00616	13C6-Fluorene	96		20-130
1397194-60-3	13C6-Fluoranthrene	93		20-130
1397214-90-2	13C3-Pyrene	94		20-130
917378-11-1	13C6-Benzo (a) anthracene	78		20-130
1397177-72-8	13C6-Chrysene	76		20-130
STL03358	13C6-Benzo (b) fluoranthene	96		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	94		20-130
STL03382	13C4-Benzo (e) pyrene	87		20-130
STL03359	13C4-Benzo (a) pyrene	89		20-130
1520-96-3	Perylene-d12	92		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	99		20-130
STL03360	13C6-Dibenz (a,h) anthracene	99		20-130
350820-11-0	13C12-Benzo (ghi) perylene	86		20-130
189811-60-7	13C6-Anthracene	92		20-130
1189955-53-0	13C6-Phenanthrene	79		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Lims ID: MB 140-88192/21-B
Client ID:
Sample Type: MB
Inject. Date: 19-Jul-2024 00:57:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033572-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 20-Jul-2024 10:15:05 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:15:05

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:23	23801382		3.3746	72.2	72.2	0.005475	0.005475	72.24	
Naphthalene	11:24	228928425		1.2893	746.0	746.0	0.0575	0.0575		
D 13C6-2-Methylnaphthalene	13:46	10428265		1.6031	66.6	66.6	0.001256	0.001256	66.63	
2-Methylnaphthalene	13:46	1853158		1.2786	13.9	13.9	0.0281	0.0281		
D 13C6-Acenaphthylene	16:38	15059325		1.6520	93.4	93.4	0.001546	0.001546	93.36	
Acenaphthylene	16:38	86208		2.3661	0.4524	0.4524	0.0209	0.0209		
* Acenaphthene-d10	17:12	4881786		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:19	8053617		0.9792	84.2	84.2	0.002761	0.002761	84.24	
Acenaphthene	17:19	583444		1.2697	5.706	5.706	0.0284	0.0284		
D 13C6-Fluorene	19:36	8310597		0.8898	95.7	95.7	0.000844	0.000844	95.66	
Fluorene	19:36	508189		1.2532	4.880	4.880	0.0298	0.0298		
D 13C6-Phenanthrene	24:57	11515942		0.5724	79.5	79.5	0.001690	0.001690	79.49	
Phenanthrene	24:57	1541665		1.1044	12.1	12.1	0.0340	0.0340		
\$ Anthracin-d10	25:10						0.000505	0.000505		
D 13C6-Anthracene	25:16	10509286		0.4523	91.8	91.8	0.002139	0.002139	91.80	
Anthracene	25:16	59905		1.3586	0.4196	0.4196	0.0323	0.0323		M
D 13C6-Fluoranthrene	33:39	28335198		1.1994	93.3	93.3	0.0169	0.0169	93.35	
Fluoranthene	33:40	3362179		1.1513	10.3	10.3	0.0297	0.0297		
* Pyrene-d10	35:12	12654264		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:20	32069833		1.3512	93.8	93.8	0.0206	0.0206	93.78	
Pyrene	35:20	12697269		1.0652	37.2	37.2	0.0278	0.0278		
\$ 13C6-Benzo(c)fluorene	39:05	1090		0.5136	0.008386	0.008386	0.003977	0.003977		
D 13C6-Benzo(a)anthracene	45:51	28825959		1.5189	78.2	78.2	0.0107	0.0107	78.18	
Benzo[a]anthracene	45:52	27346		0.9739	0.0974	0.0974	0.0350	0.0350		M
D 13C6-Chrysene	46:08	30132714		1.6287	76.2	76.2	0.0100	0.0100	76.22	
Chrysene	46:08	276545		0.9815	0.9351	0.9351	0.0361	0.0361		
D 13C6-Benzo(b)fluoranthene	54:30	33968675		1.4621	95.7	95.7	0.001949	0.001949	95.71	
Benzo[b]fluoranthene	54:30	198030		1.1249	0.5182	0.5182	0.006274	0.006274		
\$ 13C12-Benzo(j)fluoranthene	54:32						0.0113	0.0113		
D 13C6-Benzo(k)fluoranthene	54:37	40056551		1.7507	94.3	94.3	0.001628	0.001628	94.26	
Benzo[k]fluoranthene	54:38	56095		1.1271	0.1242	0.1242	0.006317	0.006317		M
* Benzo(e)pyrene-d12	55:24	12137008		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:29	370222		1.0013	1.071	1.071	0.005801	0.005801		
D 13C4-Benzo(e)pyrene	55:28	34509000		1.6368	86.9	86.9	0.003499	0.003499	86.85	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	33531570		1.5508	89.1	89.1	0.003693	0.003693	89.08	
Benzo[a]pyrene	55:37	281173		1.1130	0.7534	0.7534	0.005272	0.005272		
D Perylene-d12	55:47	26662301		1.1917	92.2	92.2	0.0128	0.0128	92.17	
Perylene	55:52	95514		1.4307	0.2504	0.2504	0.004977	0.004977		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	24537881		1.0218	98.9	98.9	0.009082	0.009082	98.93	
Indeno[1,2,3-cd]pyrene	57:56	181295		1.1249	0.6568	0.6568	0.005769	0.005769		
D 13C6-Dibenz(a,h)anthracene	58:00	25258515		1.0553	98.6	98.6	0.004899	0.004899	98.61	
Dibenz(a,h)anthracene	58:00	36216		1.1314	0.1267	0.1267	0.002882	0.002882		M
D 13C12-Benzo(ghi)perylene	58:23	26730705		1.2749	86.4	86.4	0.001248	0.001248	86.38	M
Benzo[g,h,i]perylene	58:23	917159		1.2838	2.673	2.673	0.004709	0.004709		M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Lims ID: MB 140-88192/21-B
Client ID:
Sample Type: MB
Inject. Date: 19-Jul-2024 00:57:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033572-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 10:15:05 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 10:15:05

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:23	11:25	-3	0.662	23801382	8288289	246	615	33692		
Naphthalene											
128.0626	11:24	11:24	-2	1.001	228928425	80163586	2456	6140	32640		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	-1	0.801	10428265	4815760	27	67	178362		
2-Methylnaphthalene											
142.0783	13:46	13:46	-1	1.000	1853158	814659	692	1730	1177		
13C6-Acenaphthylene											
158.0828	16:38	16:36	-1	0.967	15059325	5182501	34	85	152427		
Acenaphthylene											
152.0626	16:38	16:39	-1	1.000	86208	25104	530	1325	47		
Acenaphthene-d10											
164.1404	17:12	17:13	-1		4881786	1664223	11	27	151293		
13C6-Acenaphthene											
160.0984	17:19	17:18	-1	1.007	8053617	2673178	36	90	74255		
Acenaphthene											
154.0783	17:19	17:18	-1	1.000	583444	200167	386	965	519		
13C6-Fluorene											
172.0984	19:36	19:34	-1	1.140	8310597	2277301	10	25	227730		
Fluorene											
166.0783	19:36	19:34	-1	1.000	508189	145723	340	850	429		
13C6-Phenanthrene											
184.0984	24:57	24:56	-1	0.709	11515942	2457893	18	45	136550		
Phenanthrene											
178.0783	24:57	24:55	-1	1.000	1541665	346535	369	922	939		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10	188.1410	25:10					4	10			
13C6-Anthracene	184.0984	25:16	25:15	-1	0.718	10509286	2104012	18	45	116890	
Anthracene	178.0783	25:16	25:16	-1	1.000	59905	14628	369	922	40	M
13C6-Fluoranthrene	208.0984	33:39	33:38	-1	0.956	28335198	5128817	378	945	13568	M
Fluoranthene	202.0783	33:40	33:38	-1	1.000	3362179	605248	701	1752	863	
Pyrene-d10	212.1404	35:12	35:13	-1		12654264	2325638	19	47	122402	
13C3-Pyrene	205.0883	35:20	35:19	-1	1.004	32069833	5907795	519	1297	11383	
Pyrene	202.0783	35:20	35:19	-1	1.000	12697269	2266526	701	1752	3233	
13C6-Benzo(c)fluorene	222.1134	39:05	39:03	2	0.706	1090	521	38	95	14	
13C6-Benzo(a)anthracene	234.1140	45:51	45:49	-1	1.303	28825959	4832022	492	1230	9821	
Benzo[a]anthracene	228.0939	45:52	45:52	0	1.000	27346	5332	659	1647	8	M
13C6-Chrysene	234.1140	46:08	46:05	0	1.311	30132714	4647964	492	1230	9447	M
Chrysene	228.0939	46:08	46:07	-1	1.000	276545	42162	659	1647	64	
13C6-Benzo(b)fluoranthene	258.1140	54:30	54:29	0	0.984	33968675	9139682	86	215	106275	
Benzo[b]fluoranthene	252.0939	54:30	54:30	-1	1.000	198030	41204	258	645	160	
13C12-Benzo(j)fluoranthene	264.1336	54:32					462	1155			
13C6-Benzo(k)fluoranthene	258.1140	54:37	54:37	-1	0.986	40056551	9059554	86	215	105344	
Benzo[k]fluoranthene	252.0939	54:38	54:38	0	1.000	56095	12857	258	645	50	M
Benzo(e)pyrene-d12	264.1692	55:24	55:23	0		12137008	3771545	461	1152	8181	M
Benzo[e]pyrene	252.0939	55:29	55:27	0	1.000	370222	118638	258	645	460	
13C4-Benzo(e)pyrene	256.1073	55:28	55:27	-1	1.001	34509000	11105006	173	432	64191	
13C4-Benzo(a)pyrene	256.1073	55:37	55:35	0	1.004	33531570	10992110	173	432	63538	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:37	55:37	-1	1.000	281173	76431	258	645	296		
Perylene-d12											
264.1692	55:47	55:46	-1	1.007	26662301	9058346	461	1152	19649		
Perylene											
252.0939	55:52	55:52	0	1.002	95514	23773	258	645	92		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	-1	1.046	24537881	7936026	280	700	28343		
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:55	0	1.000	181295	50472	206	515	245		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	57:59	0	1.047	25258515	6962397	156	390	44631		
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	0	1.000	36216	9268	91	227	102		M
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	26730705	8520023	48	120	177501		M
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	-1	1.000	917159	298692	206	515	1450		M

QC Flag Legend

Processing Flags

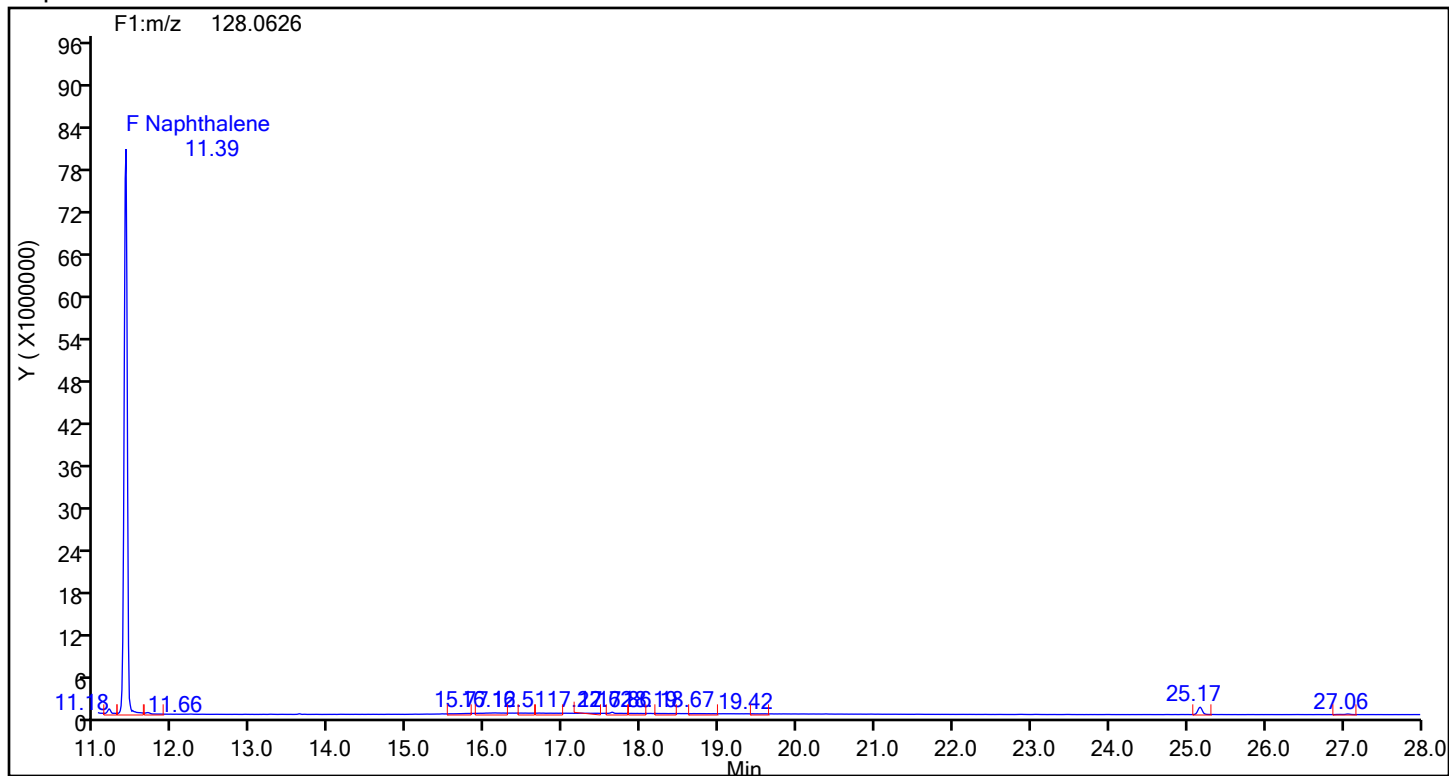
Review Flags

M - Manually Integrated

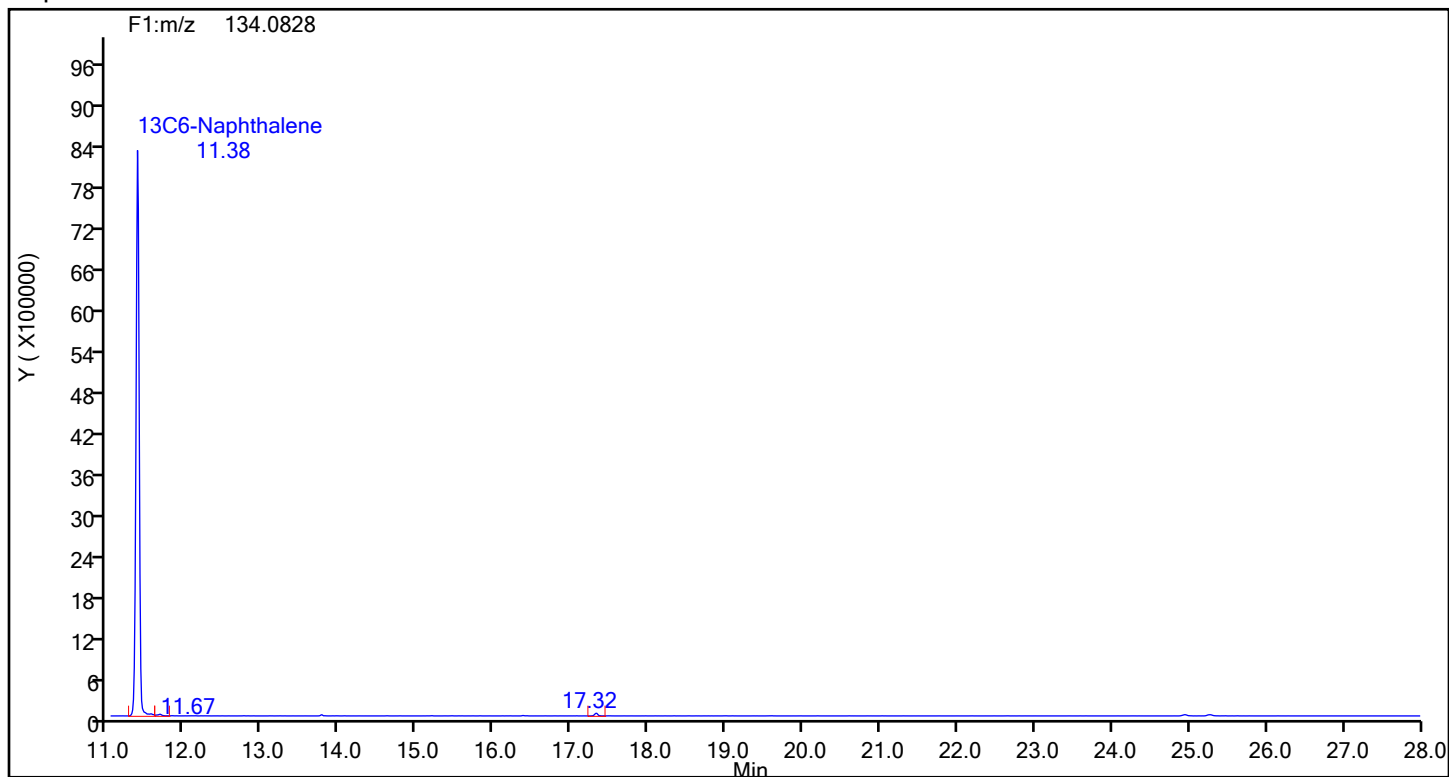
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



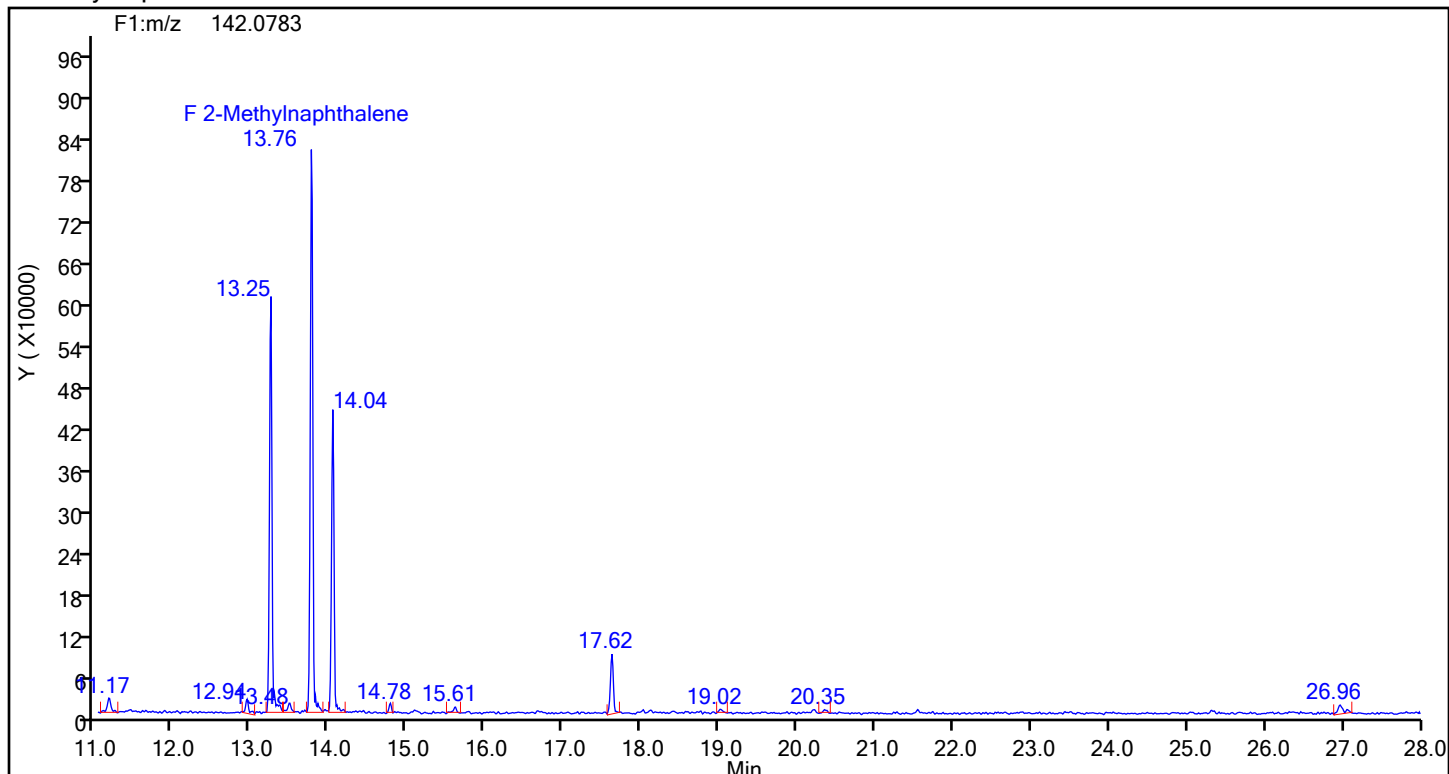
Naphthalene Standards



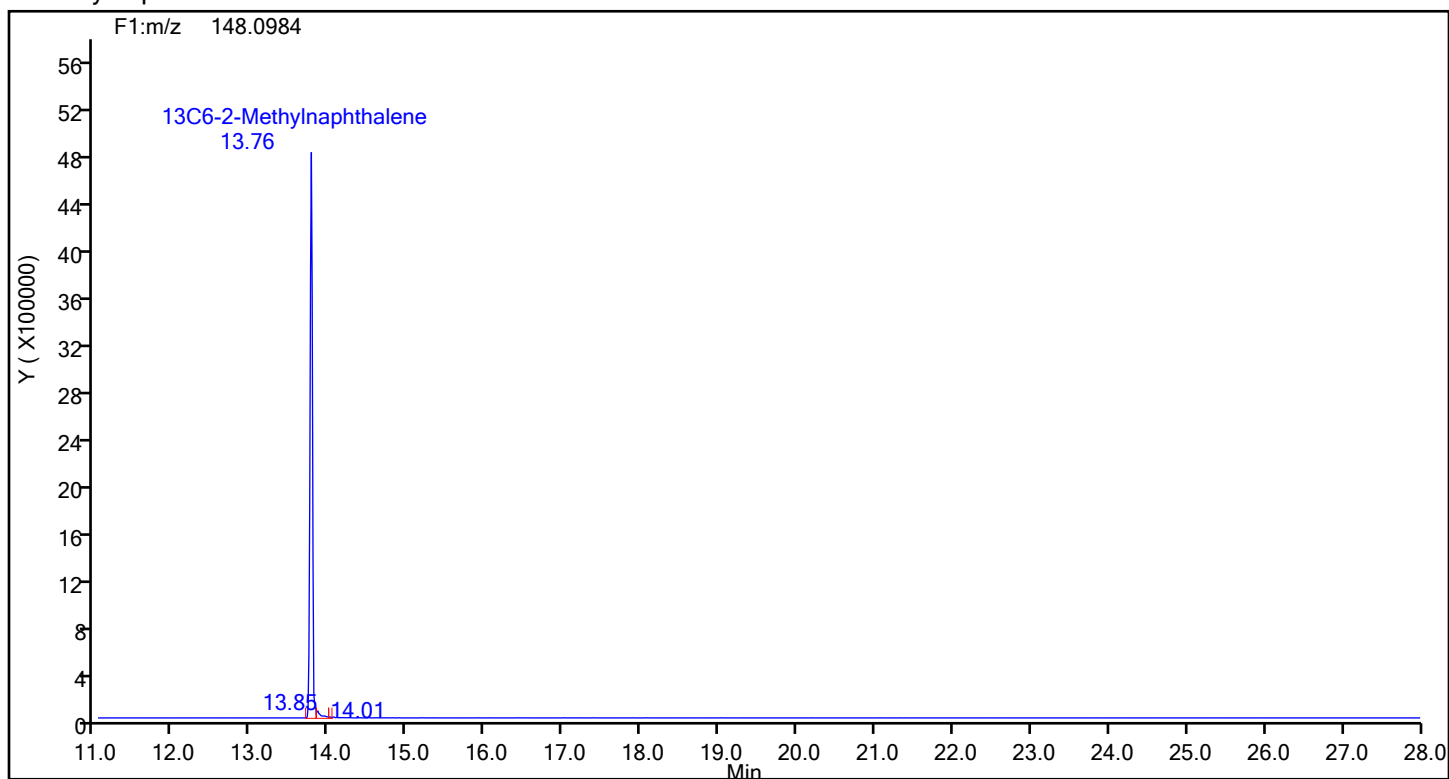
Eurofins Knoxville

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Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d

Injection Date: 19-Jul-2024 00:57:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

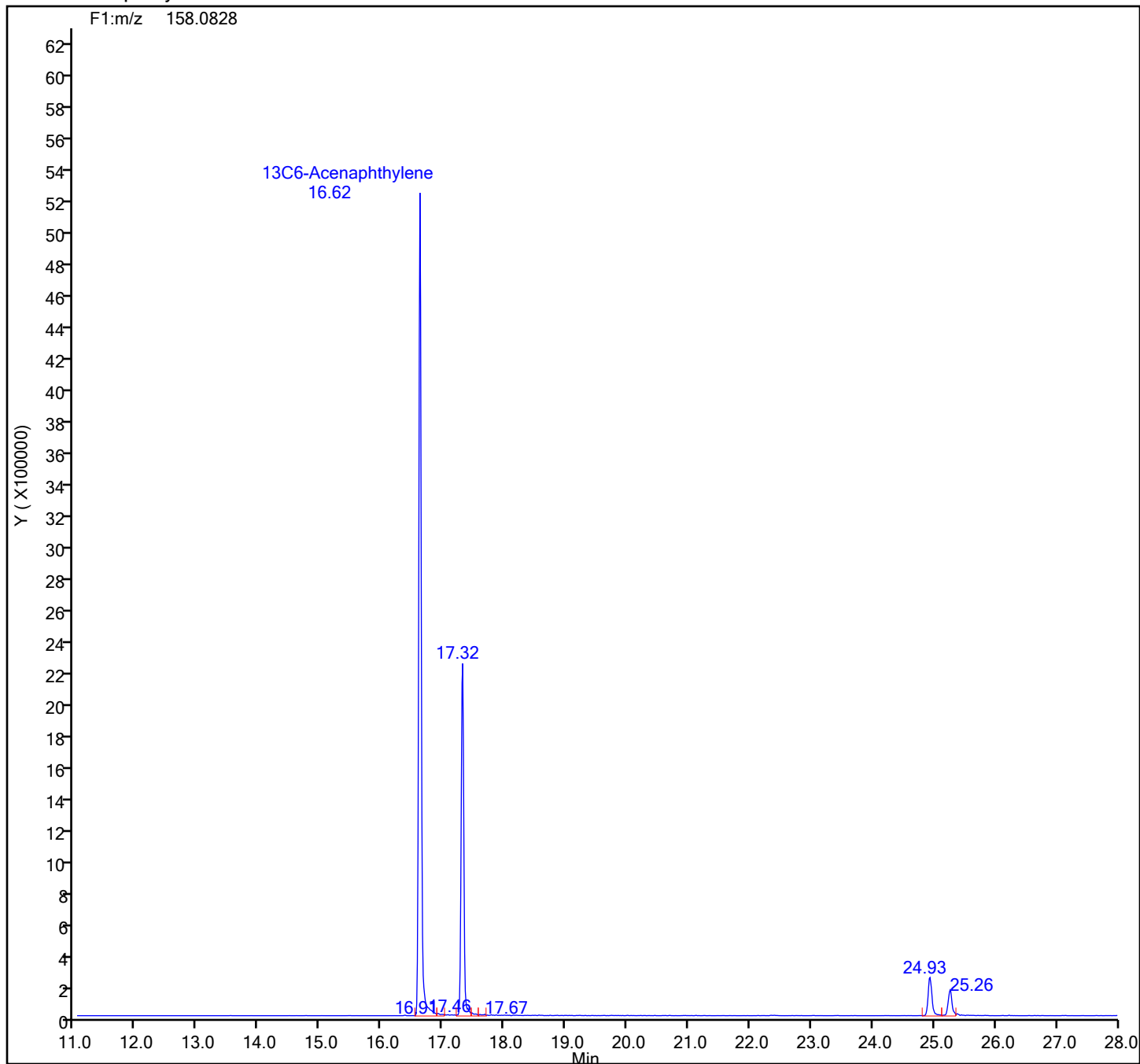
Worklist#: 88945

Sample Line#: 6

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

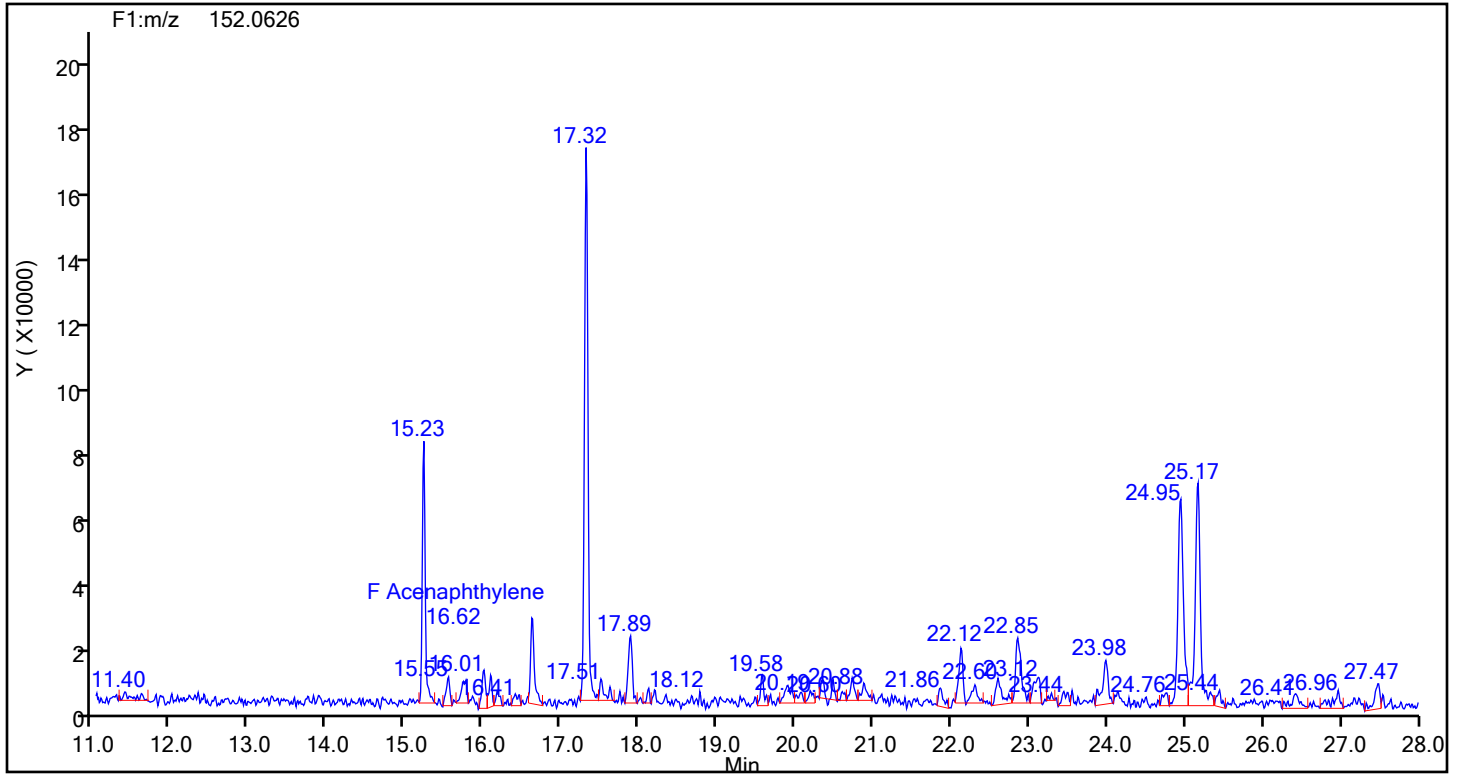
13C6-Acenaphthylene Standards



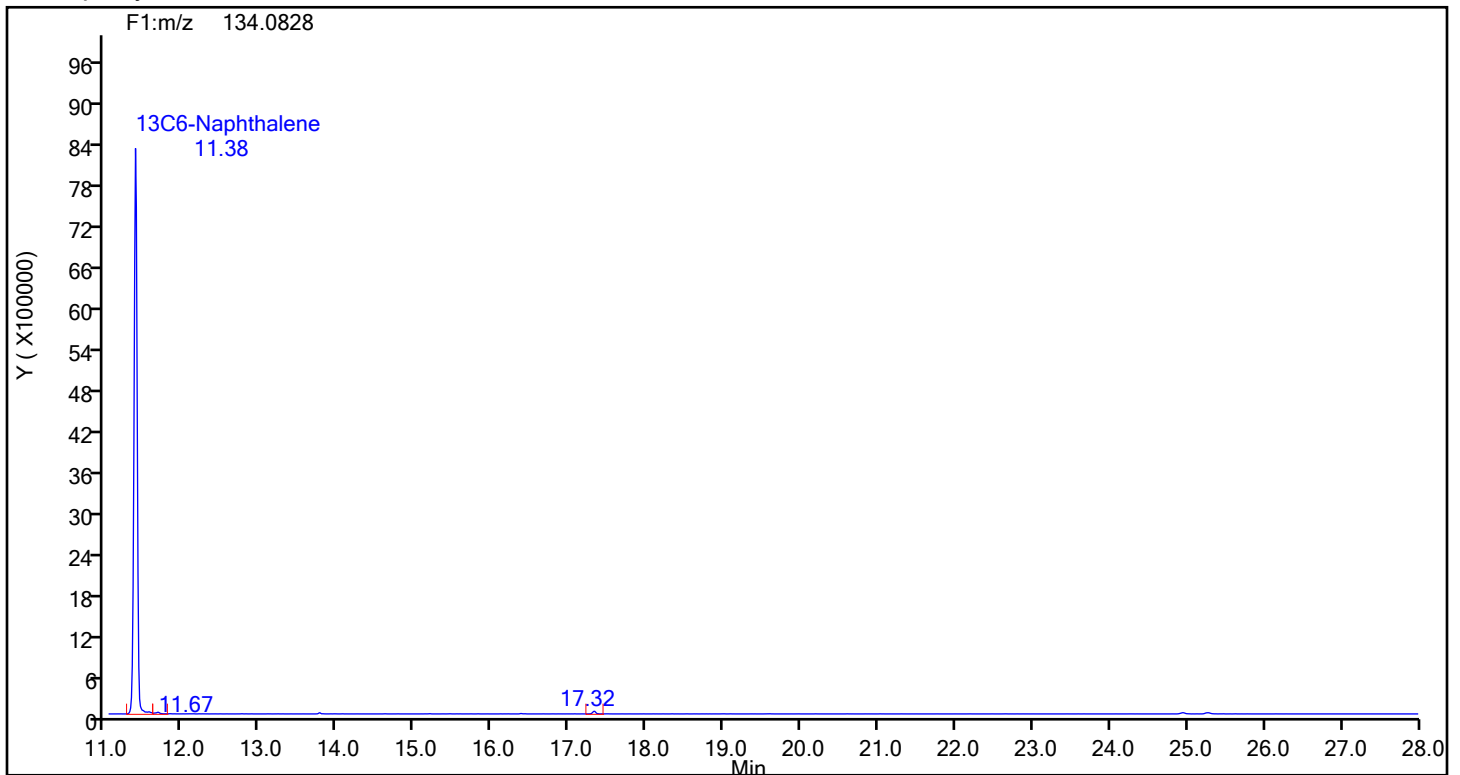
Eurofins Knoxville

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Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



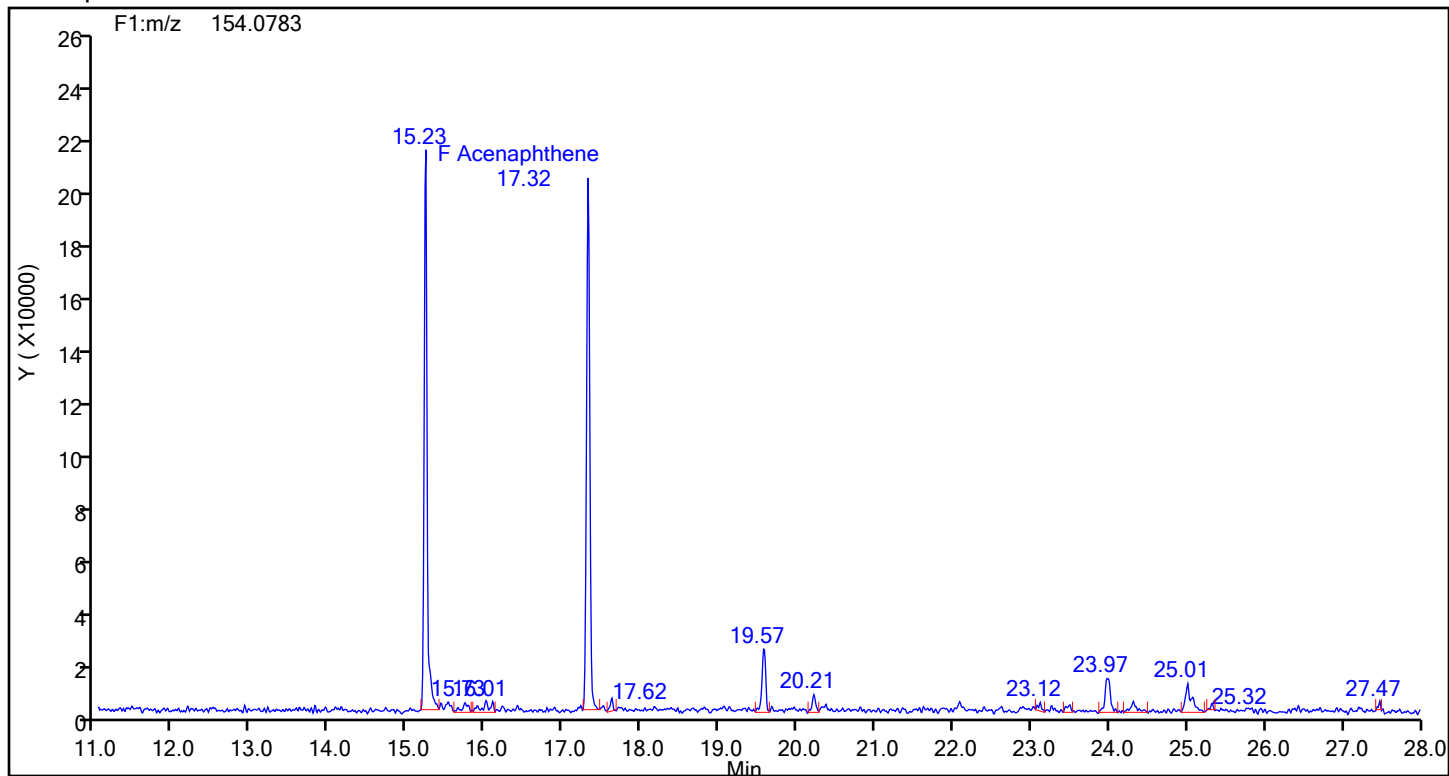
Acenaphthylene Standards



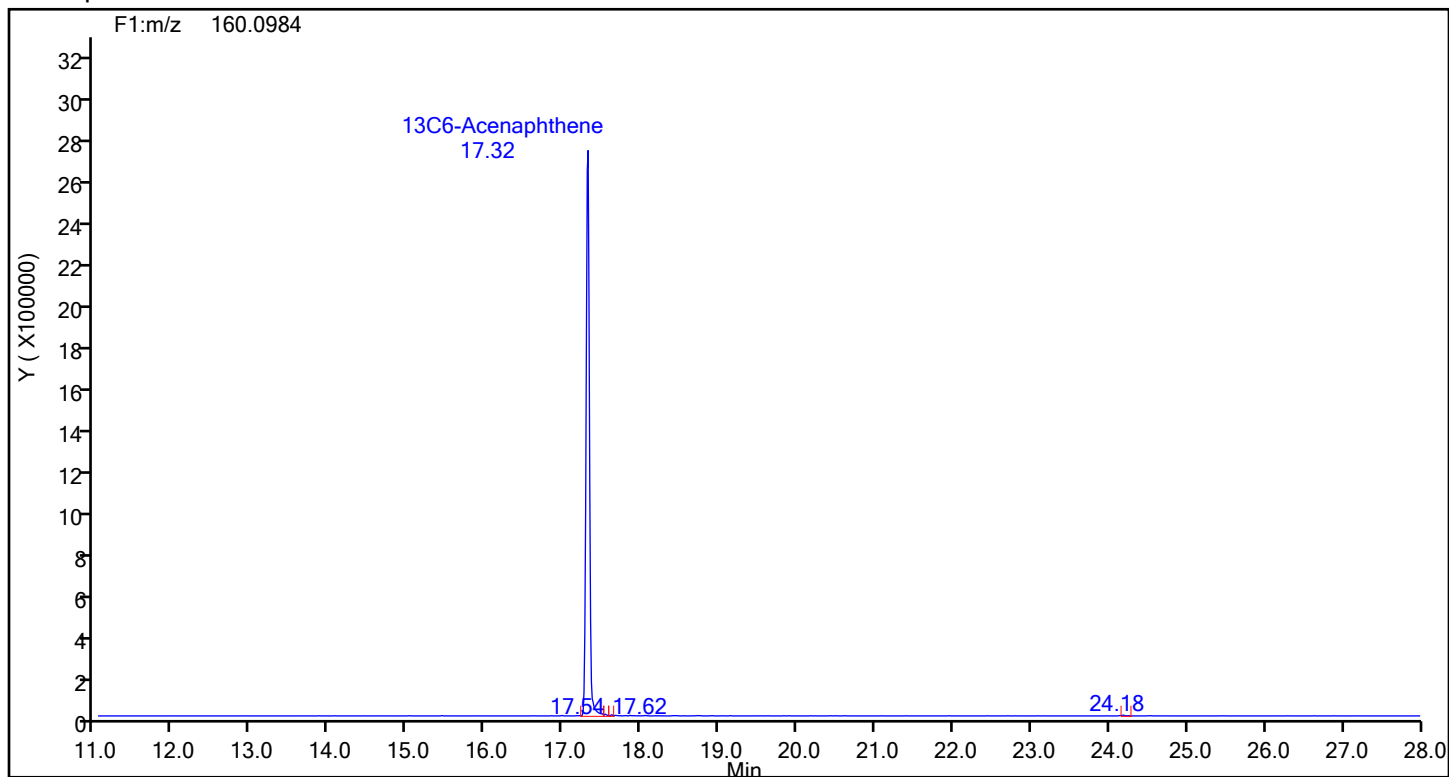
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



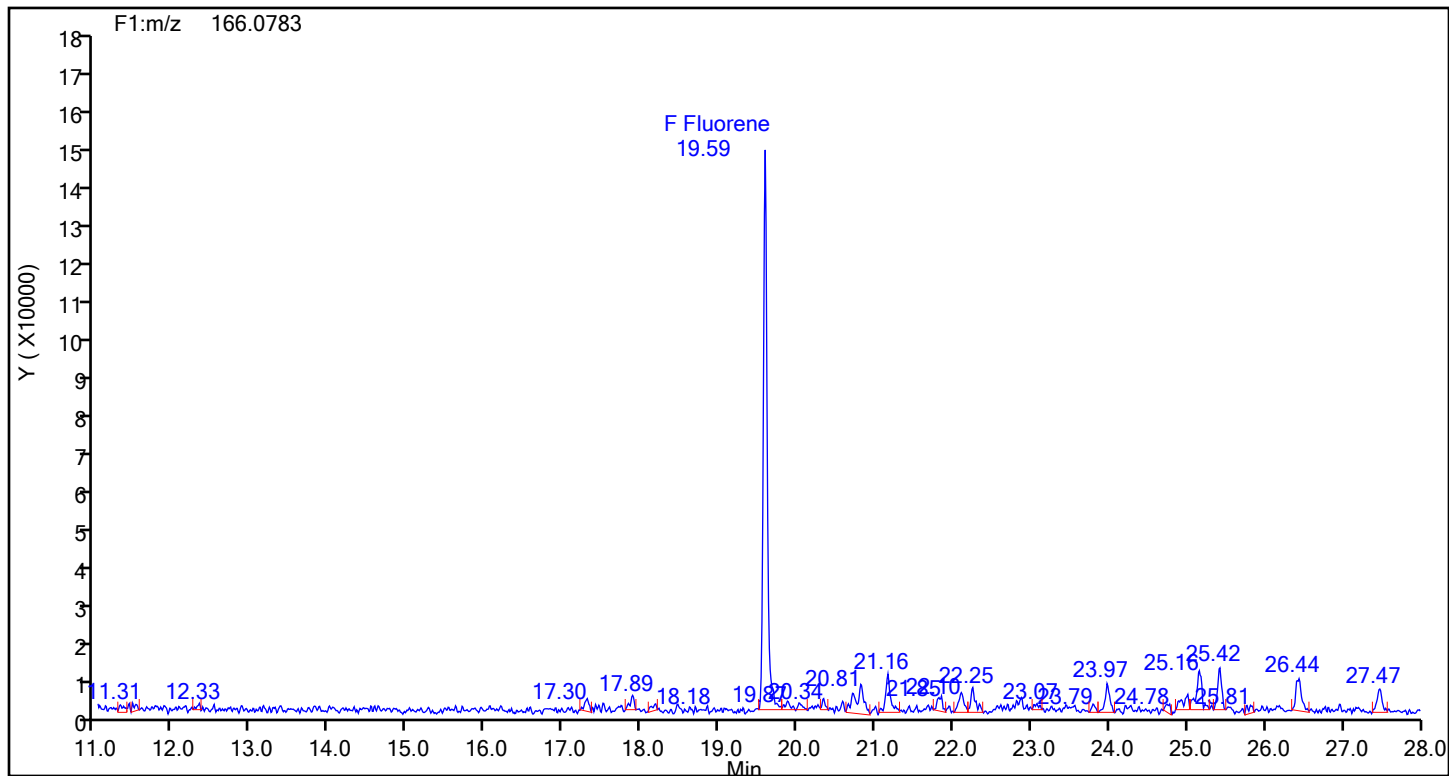
Acenaphthene Standards



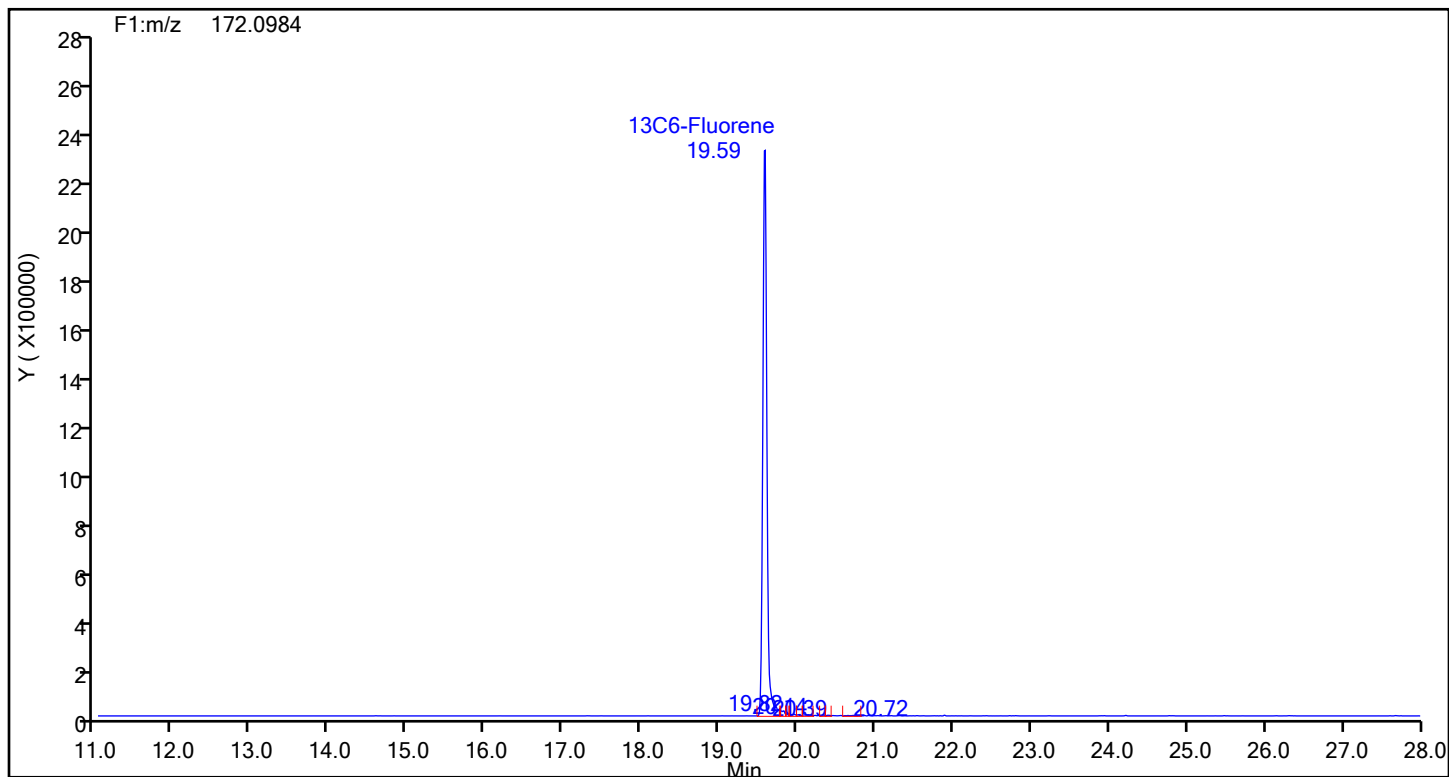
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene

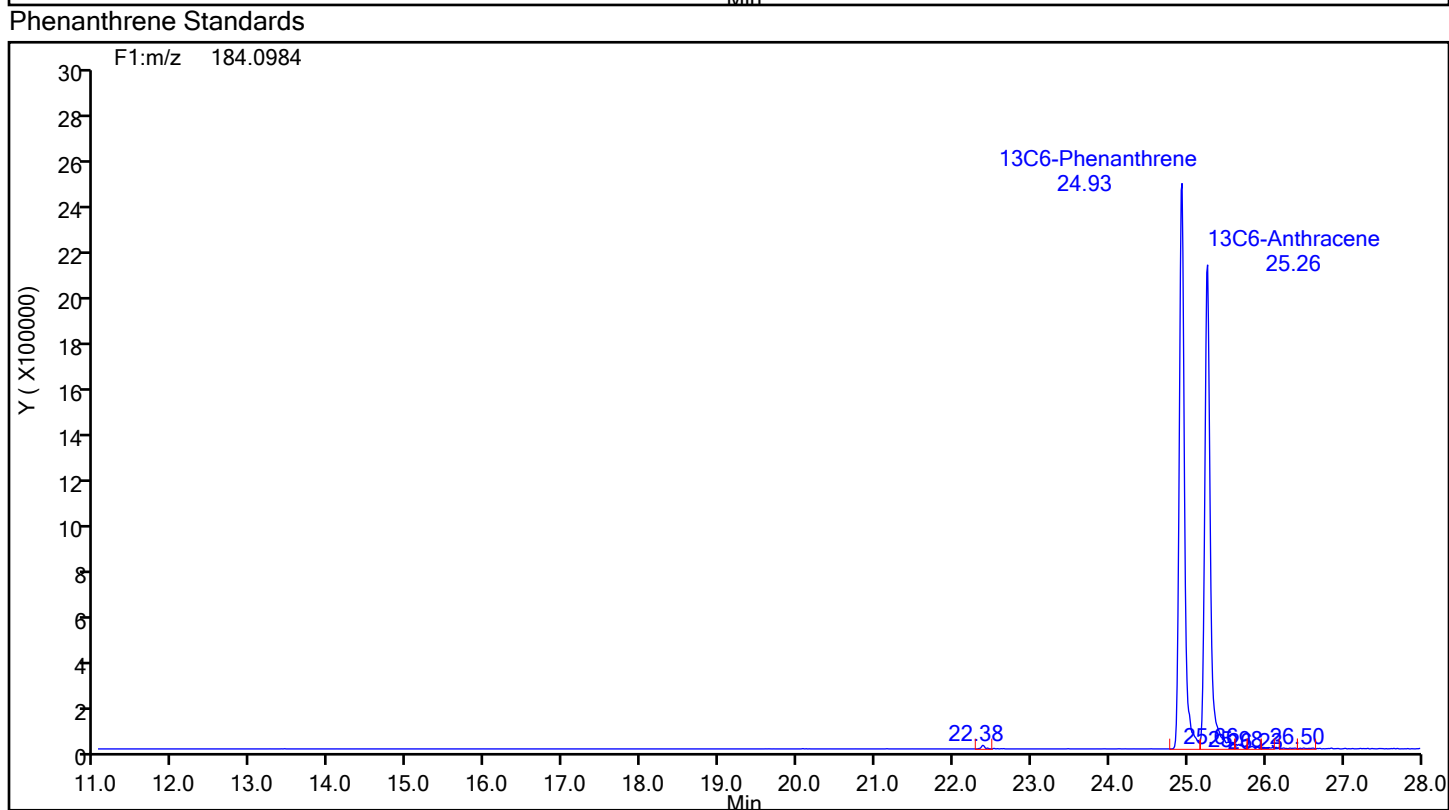
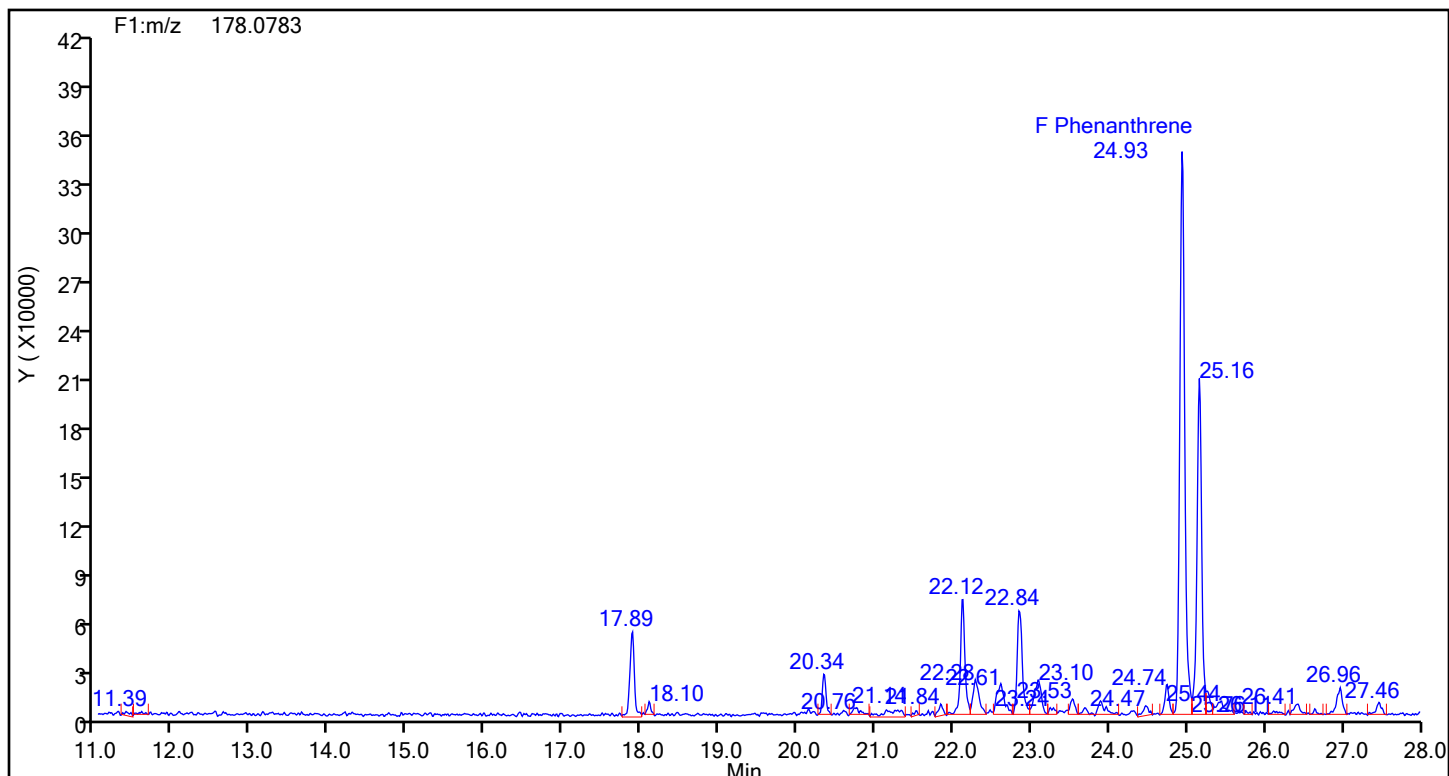


Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Phenanthrene



Eurofins Knoxville

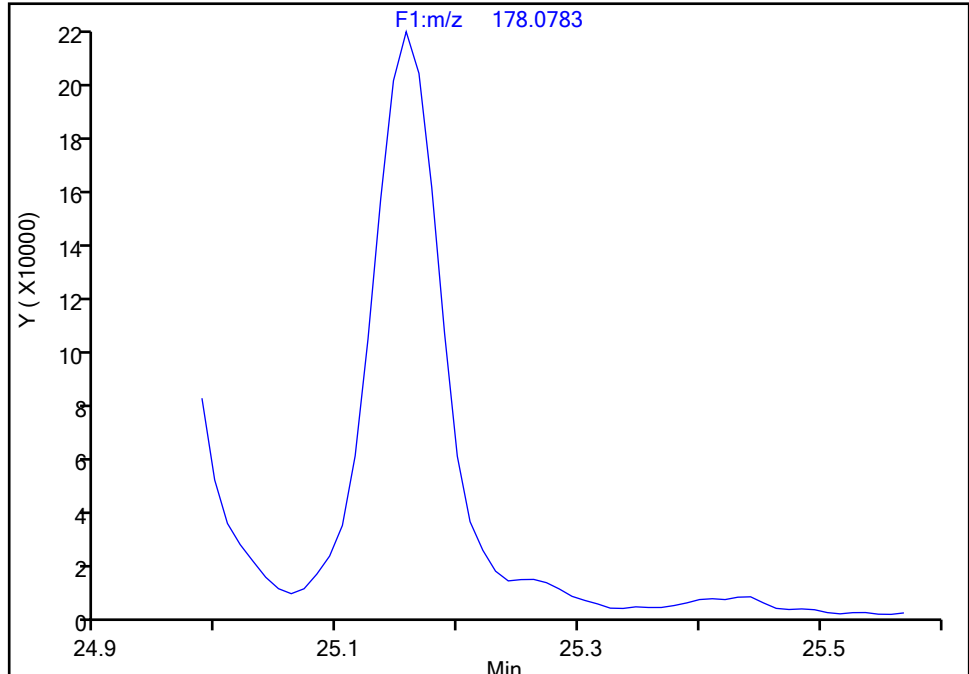
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F1(6.03 :27.99)

Anthracene, CAS: 120-12-7

Signal: 1

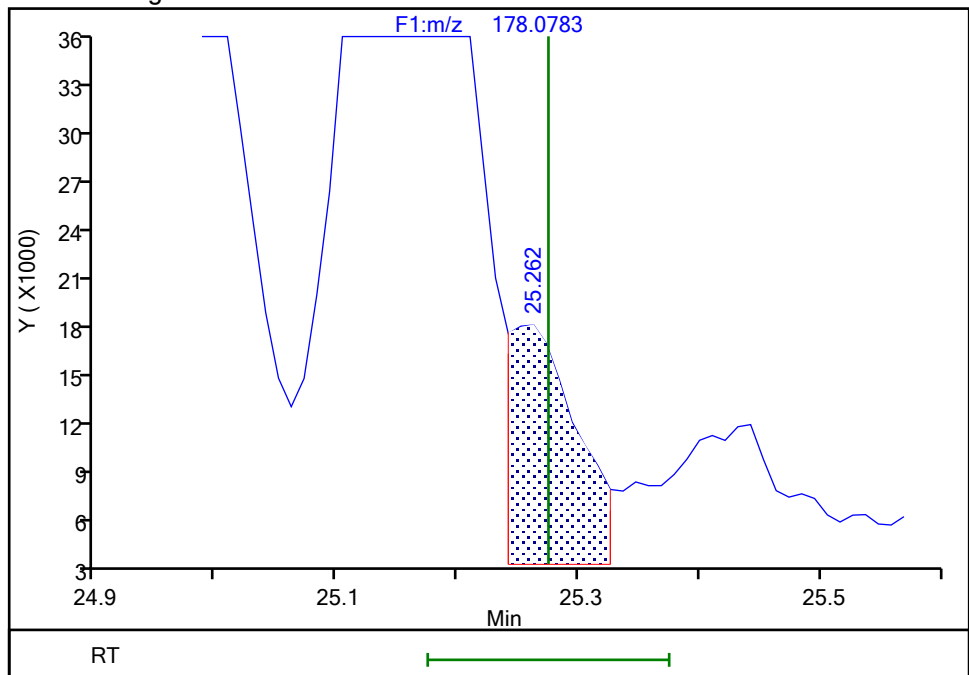
Not Detected
Expected RT: 25.27

Processing Integration Results



RT: 25.26
Area: 59905
Amount: 0.419567
Amount Units: pg/ul

Manual Integration Results



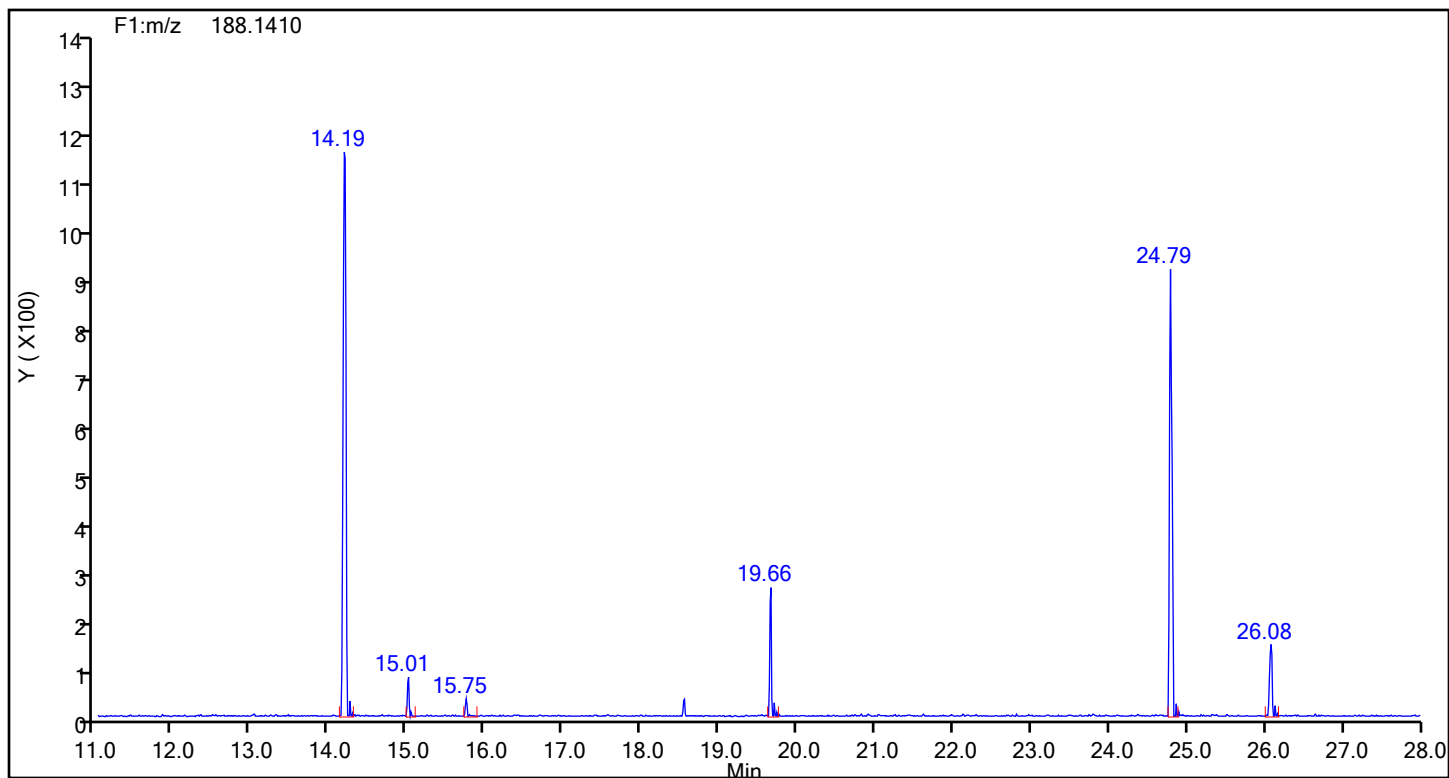
Reviewer: TT6I, 20-Jul-2024 10:14:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

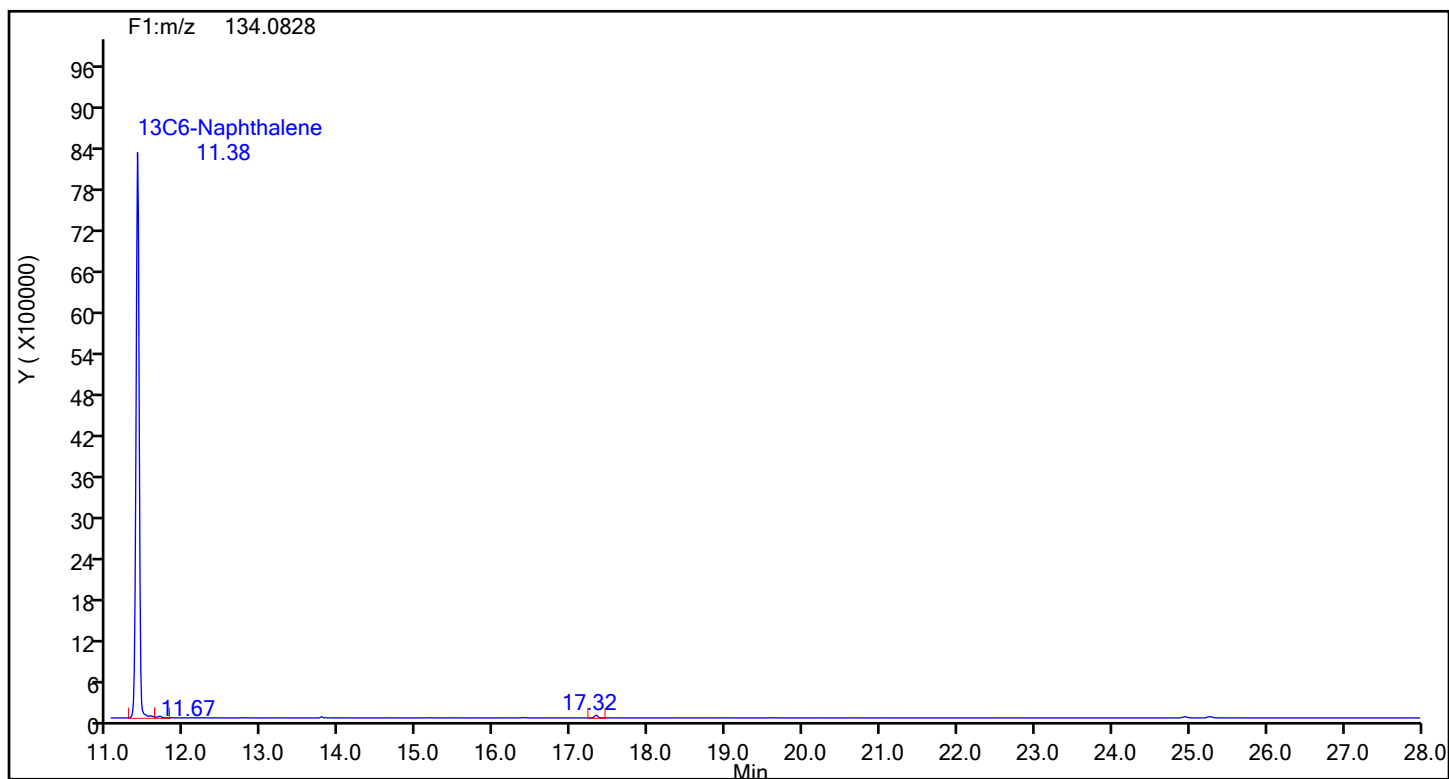
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

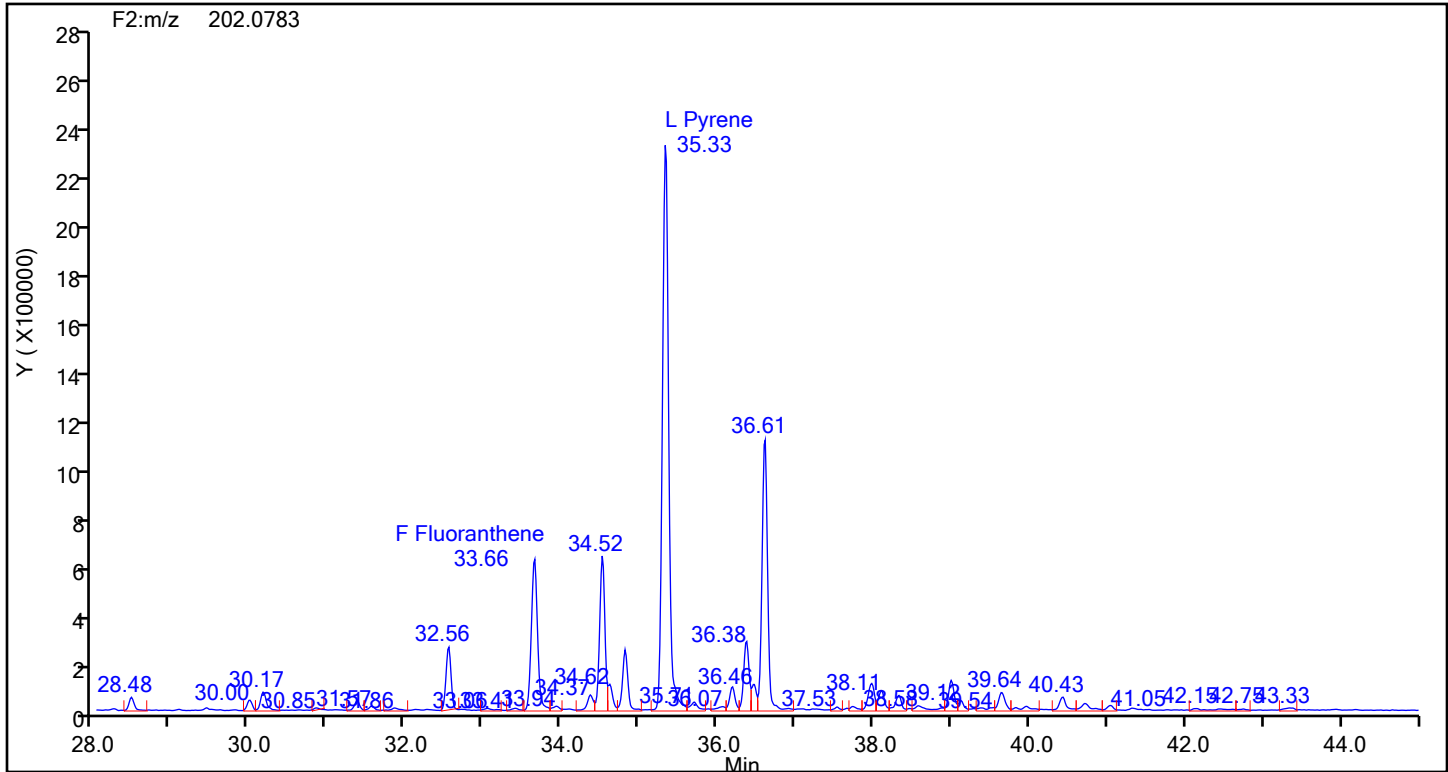


Anthracin-d10 Standards

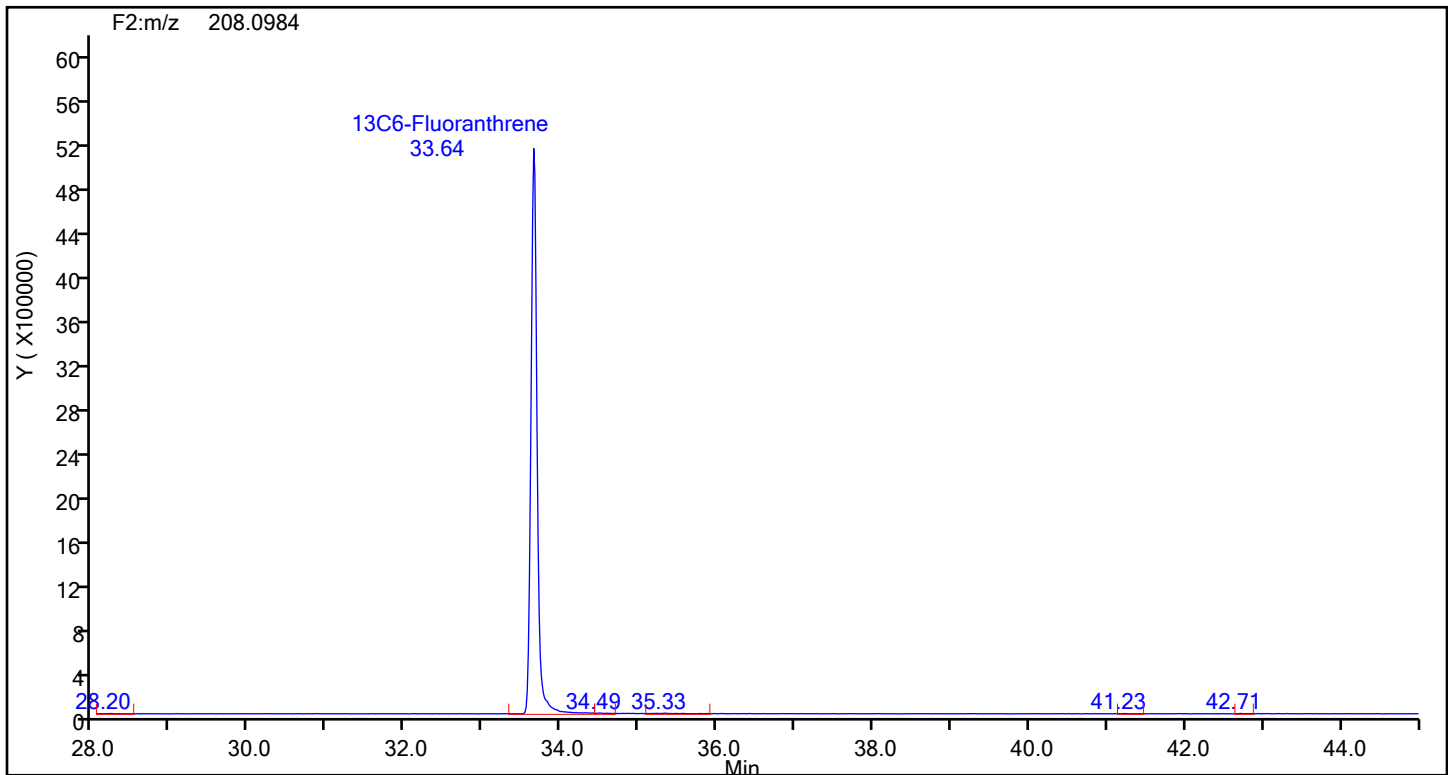


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



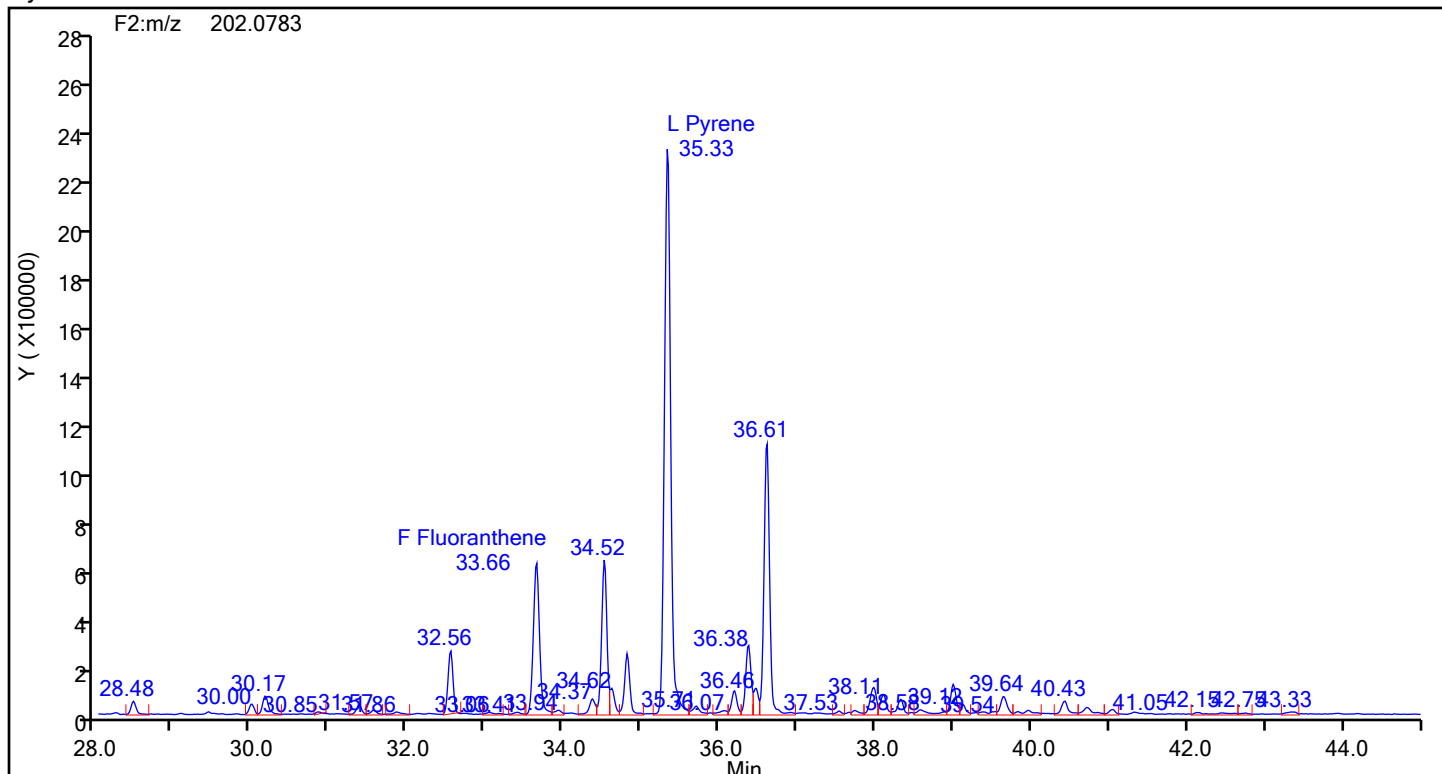
Fluoranthene Standards



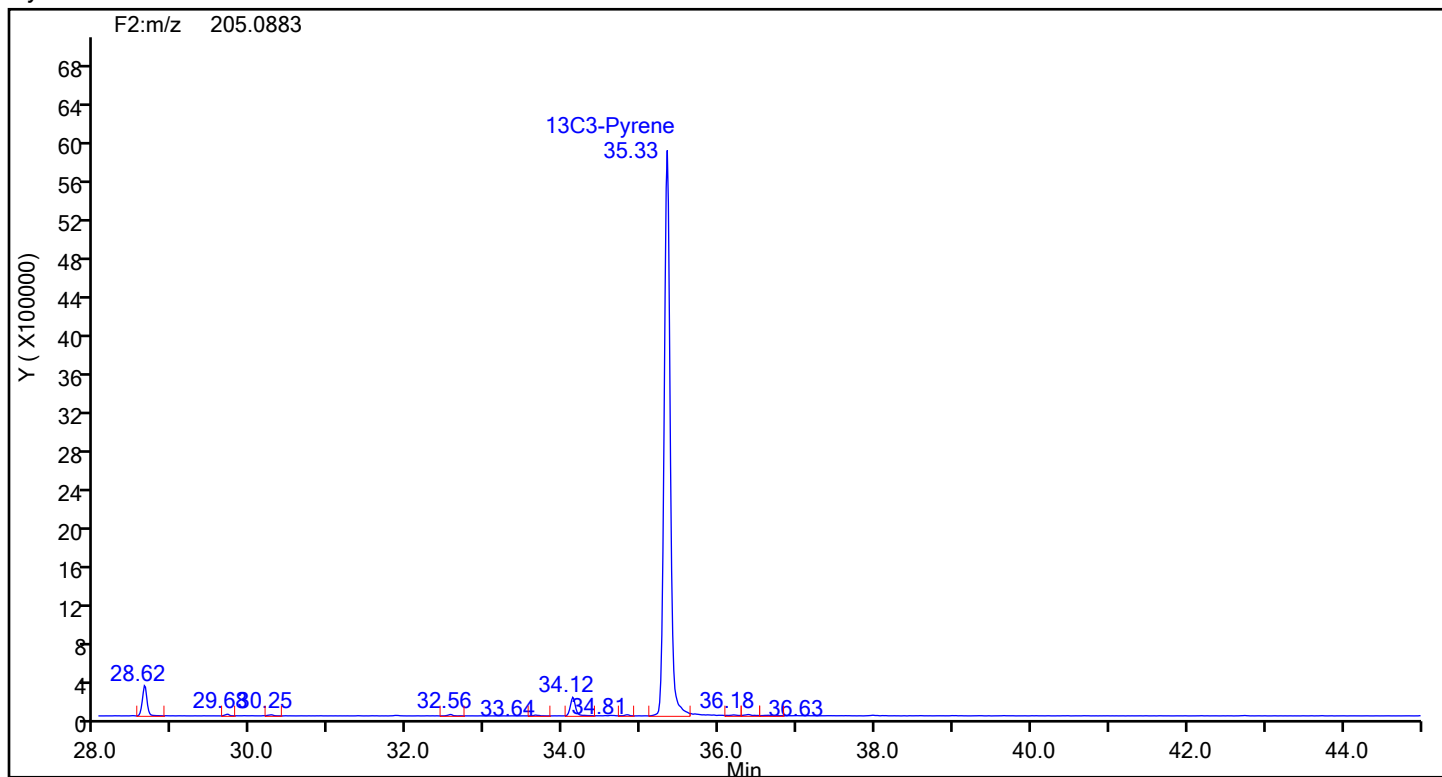
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene



Pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d

Injection Date: 19-Jul-2024 00:57:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

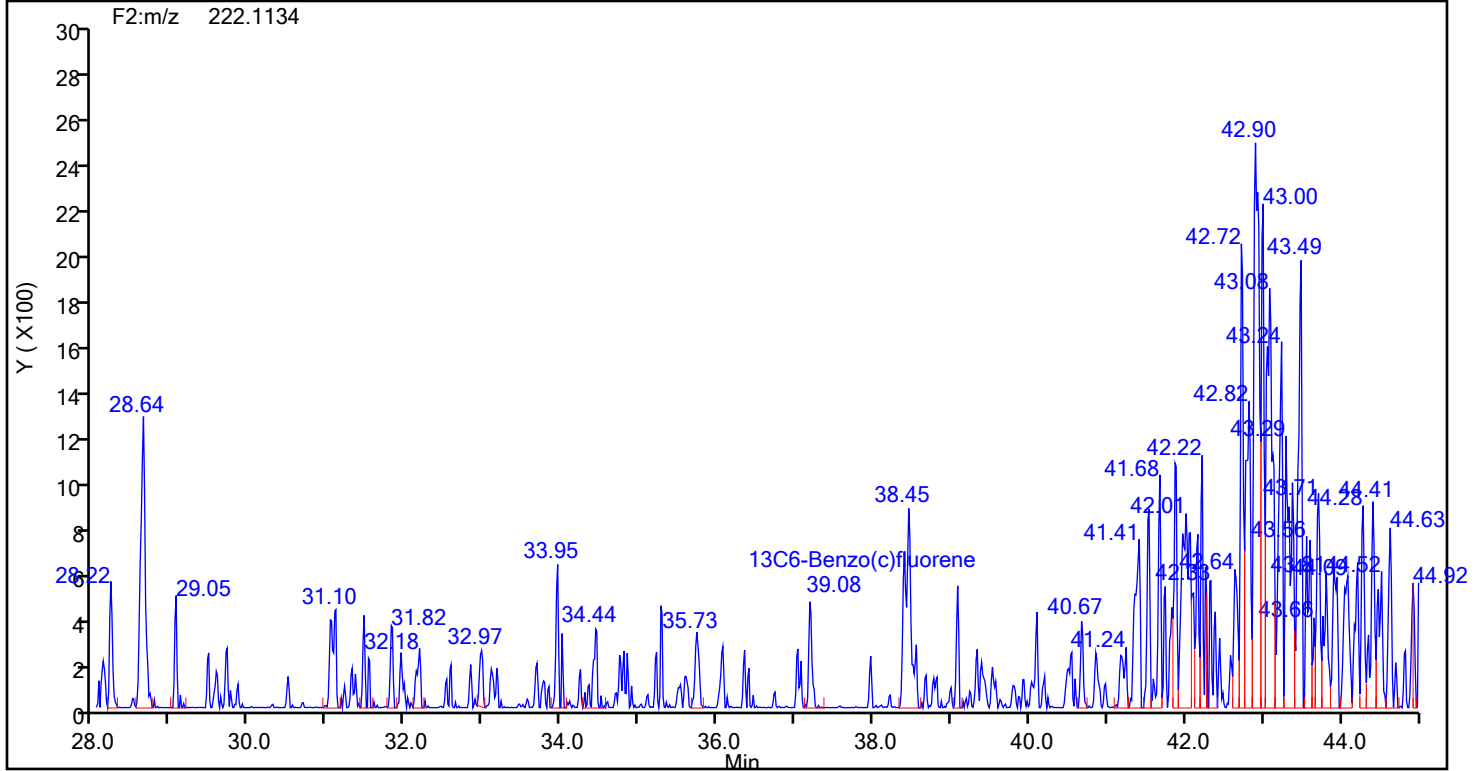
Worklist#: 88945

Sample Line#: 6

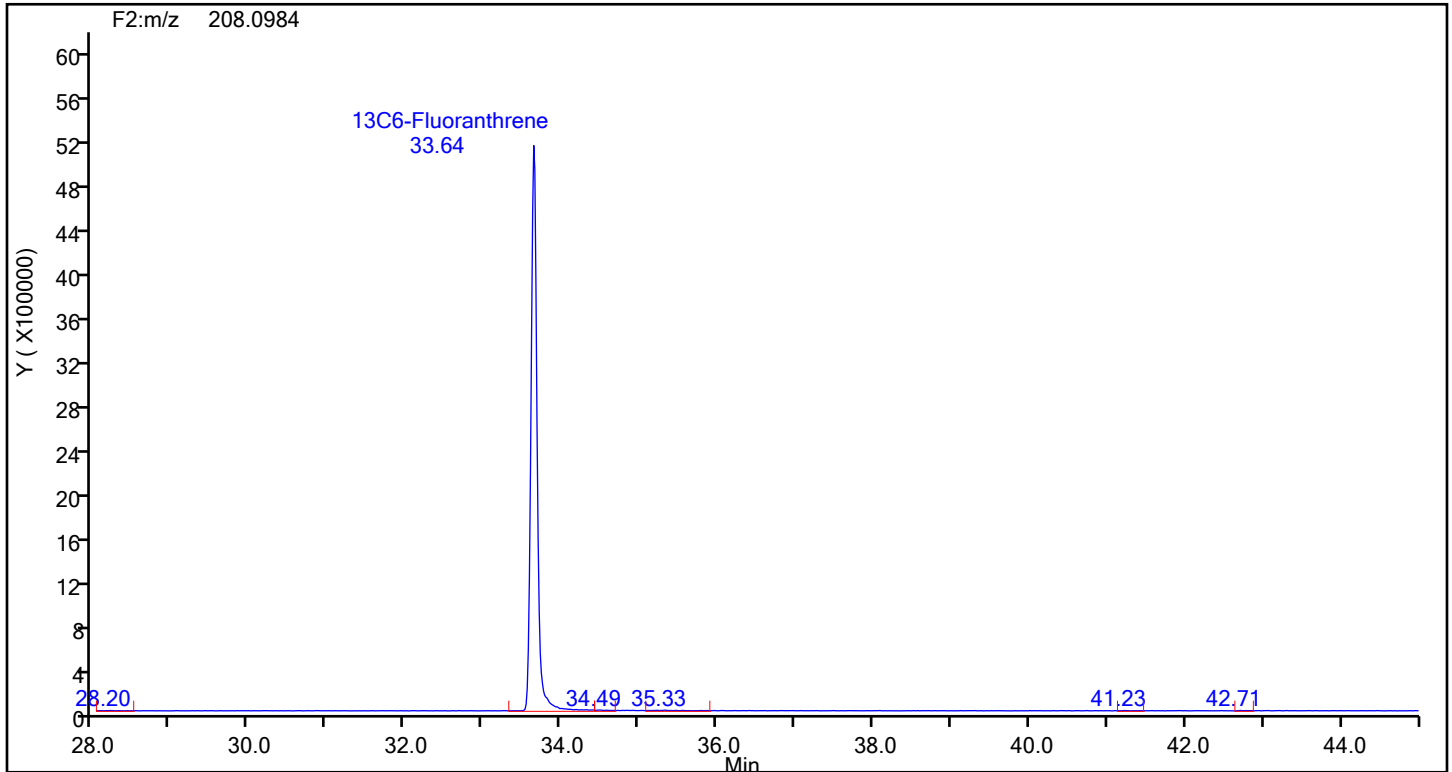
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d

Injection Date: 19-Jul-2024 00:57:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

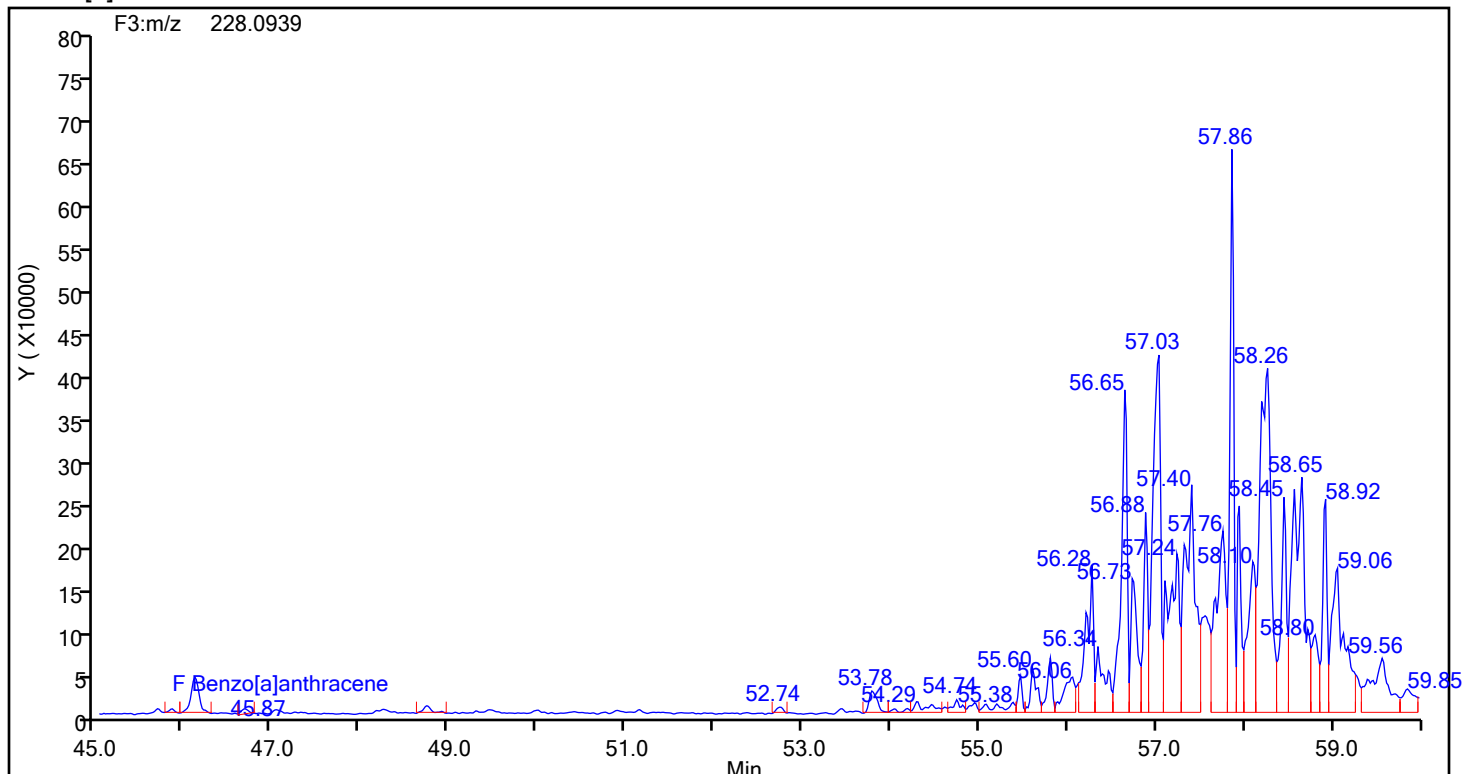
Worklist#: 88945

Sample Line#: 6

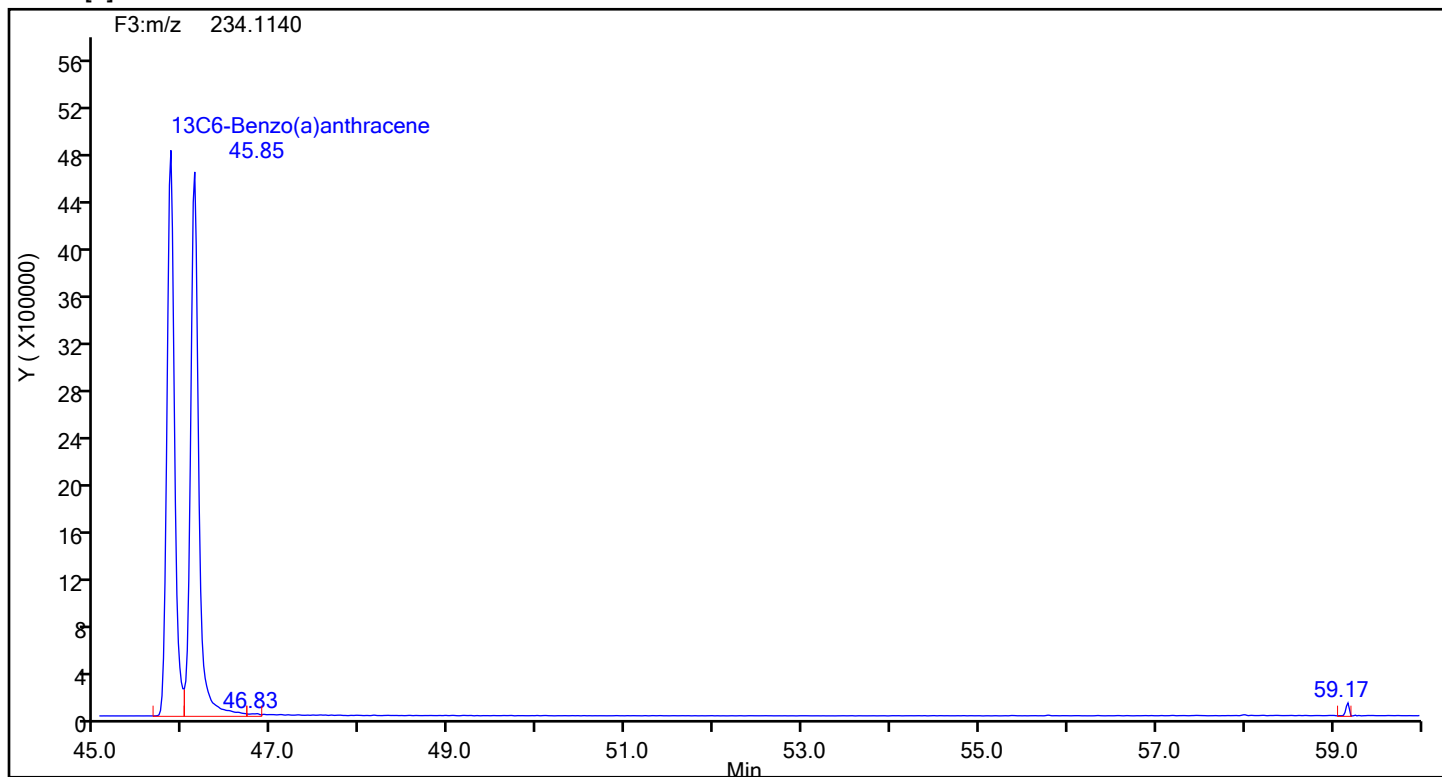
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

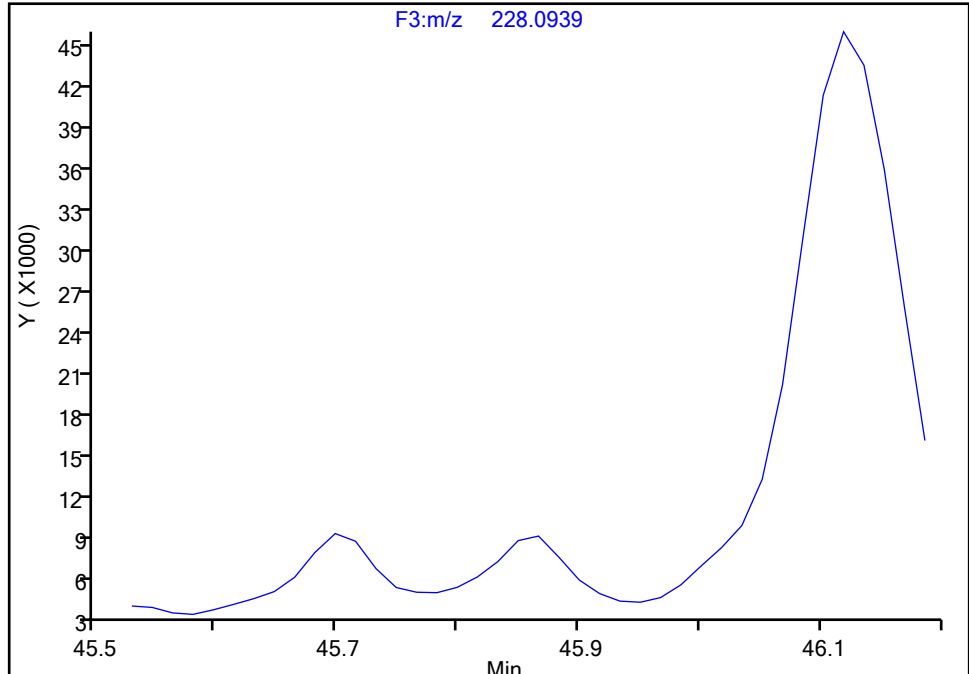
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

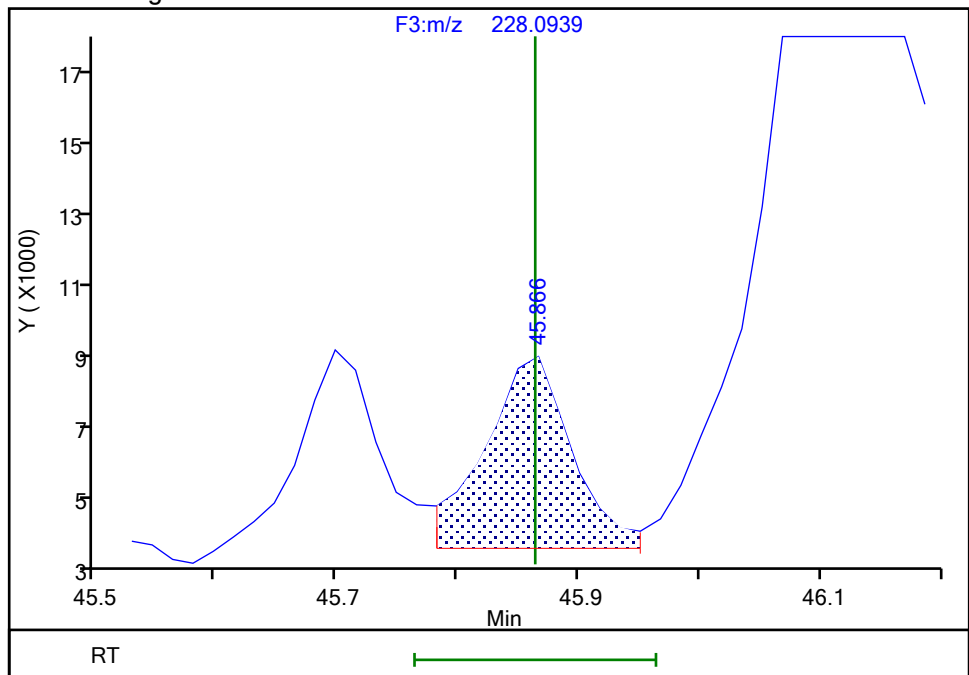
Not Detected
Expected RT: 45.86

Processing Integration Results



Manual Integration Results

RT: 45.87
Area: 27346
Amount: 0.097412
Amount Units: pg/ul



Reviewer: TT6I, 20-Jul-2024 10:08:17 -04:00:00 (UTC)

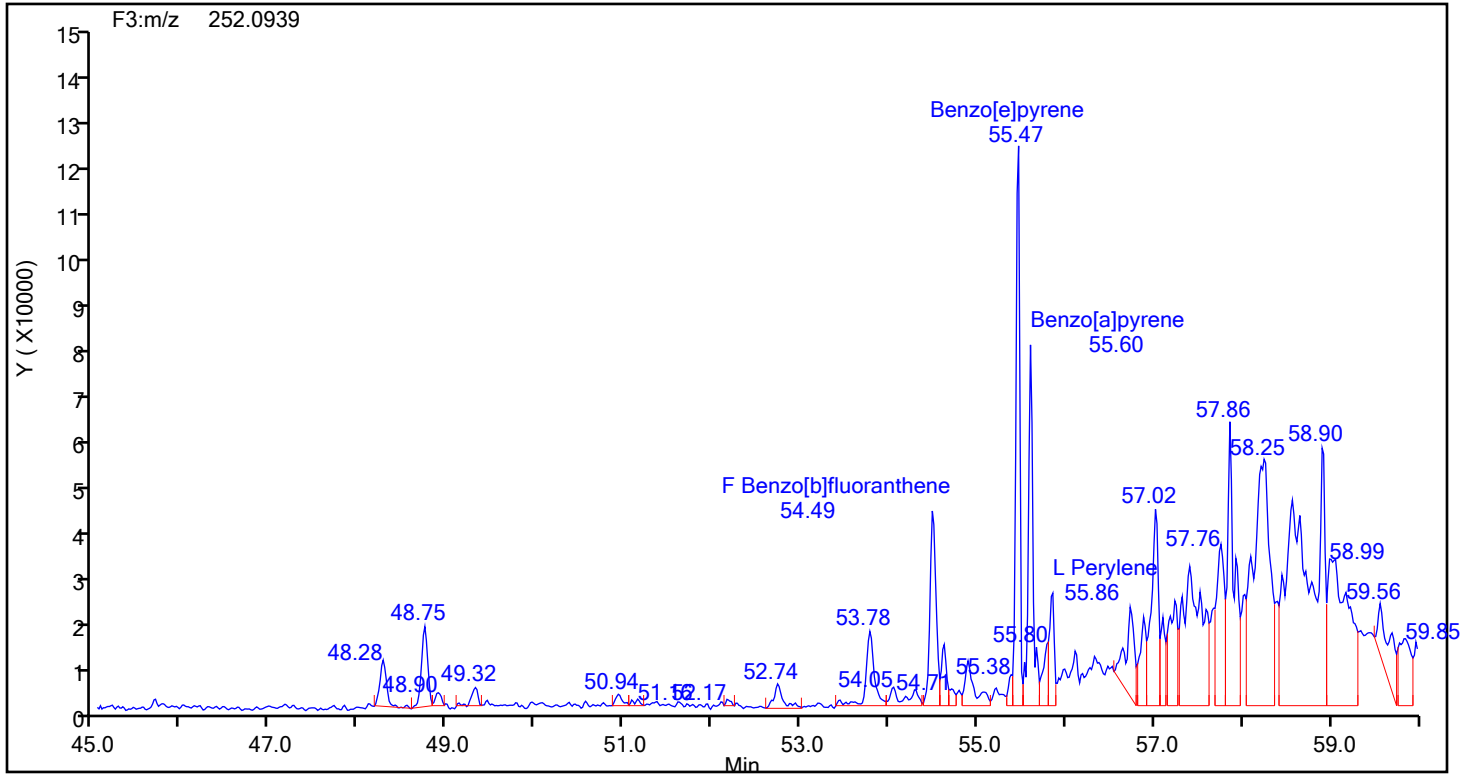
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

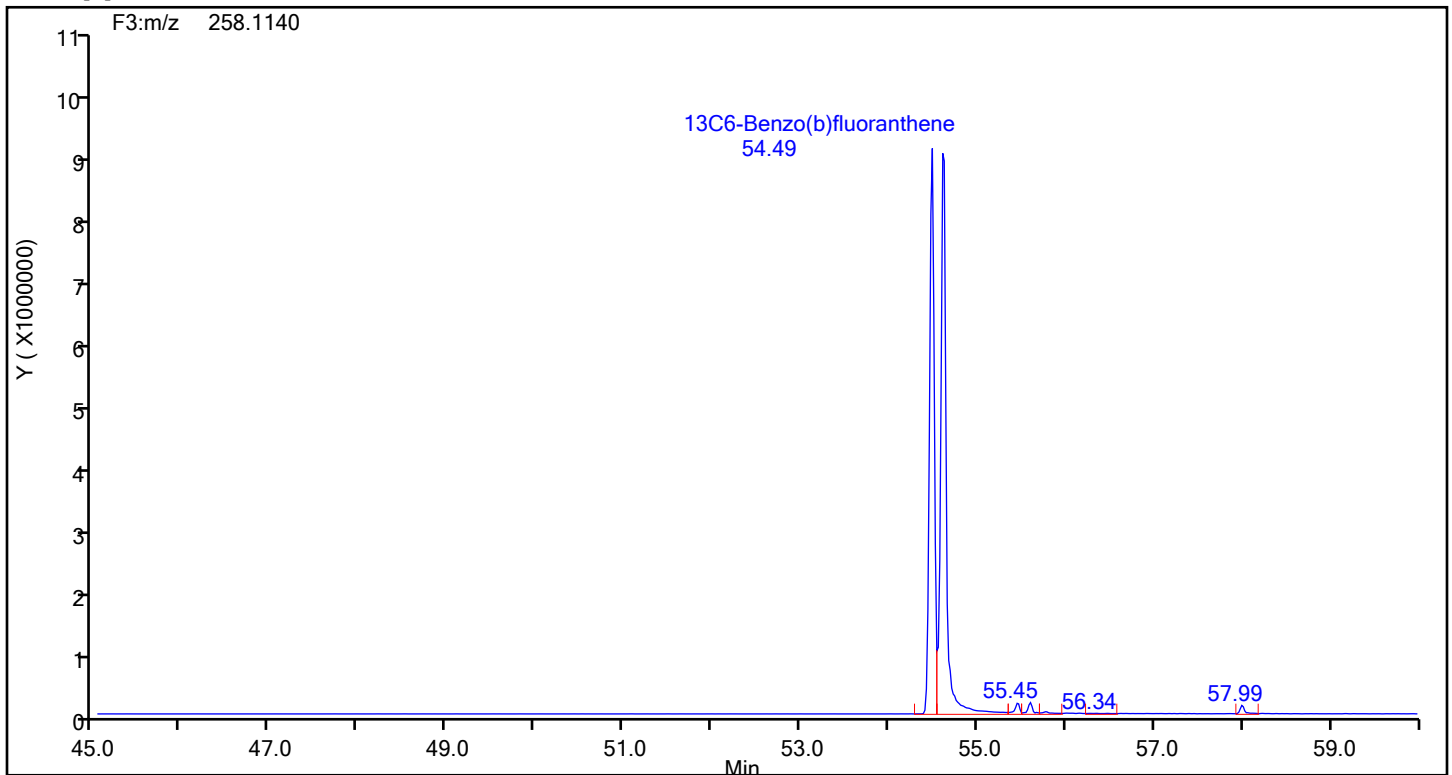
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

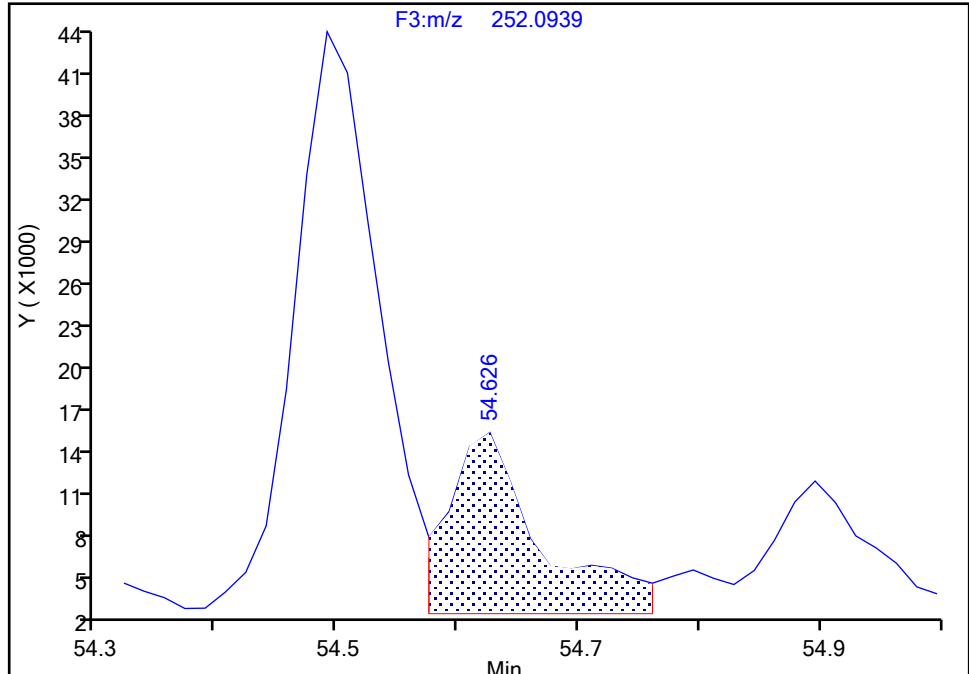
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

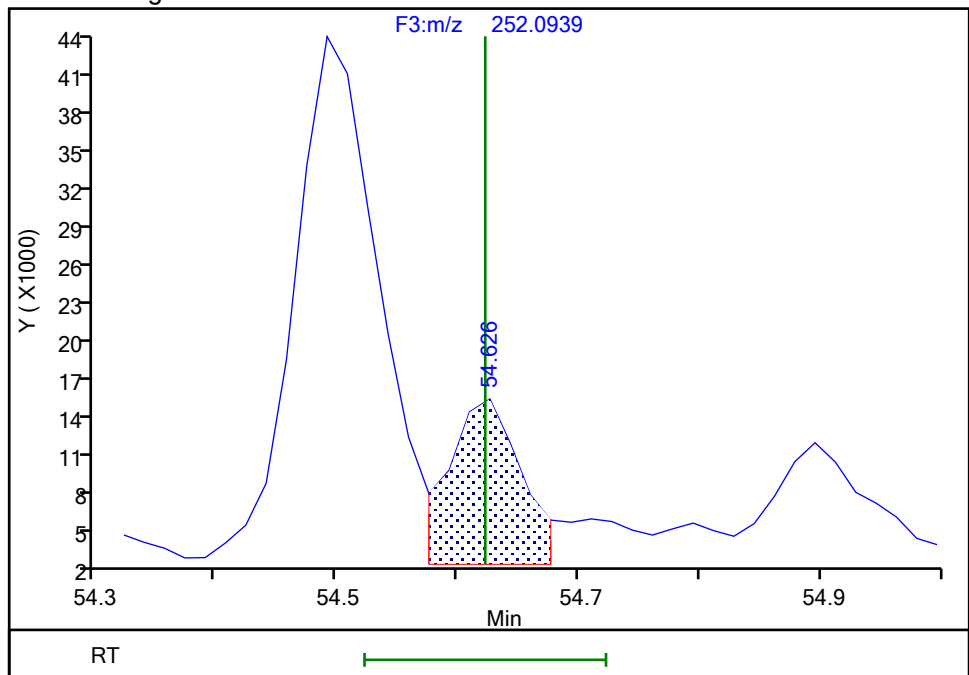
RT: 54.63
Area: 67133
Amount: 0.148698
Amount Units: pg/ul

Processing Integration Results



RT: 54.63
Area: 56095
Amount: 0.124249
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:08:36 -04:00:00 (UTC)

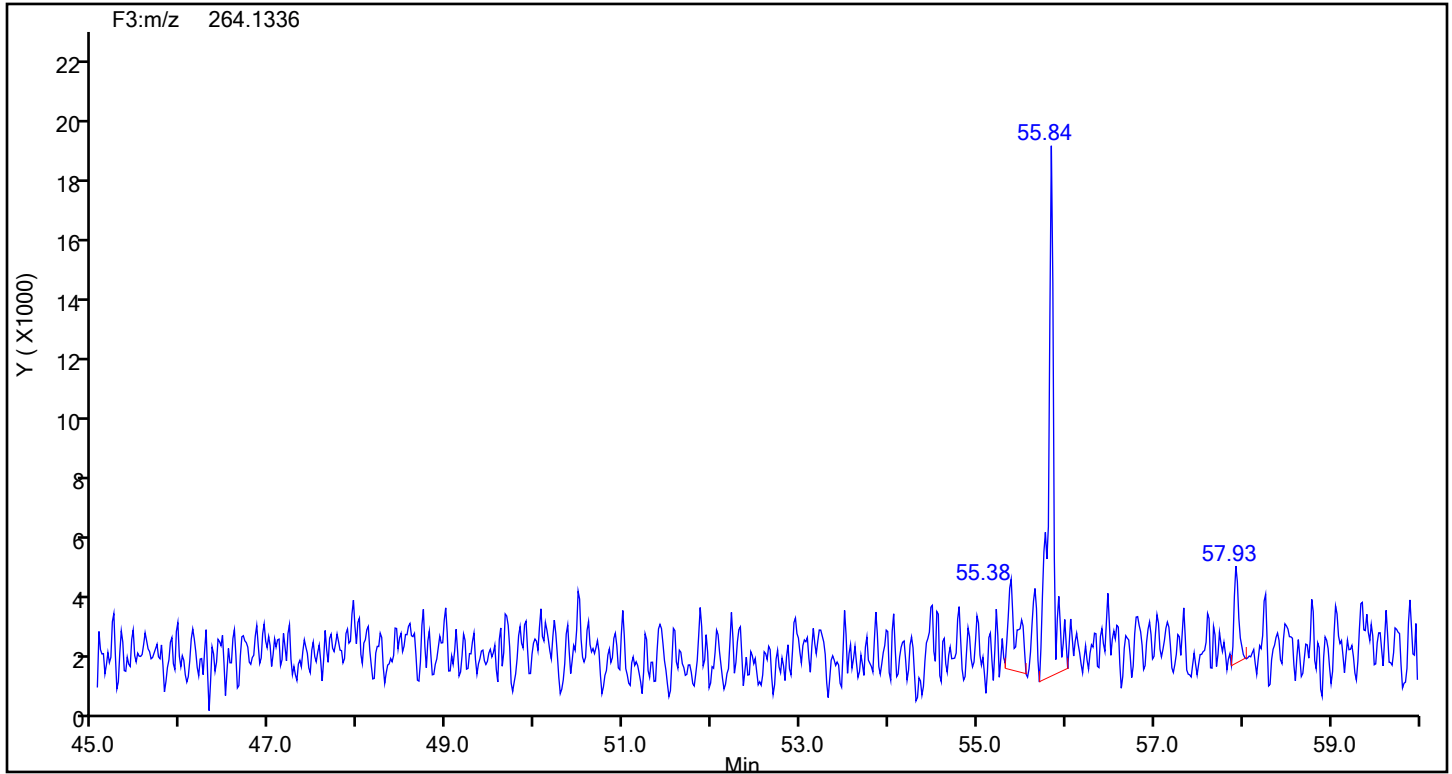
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

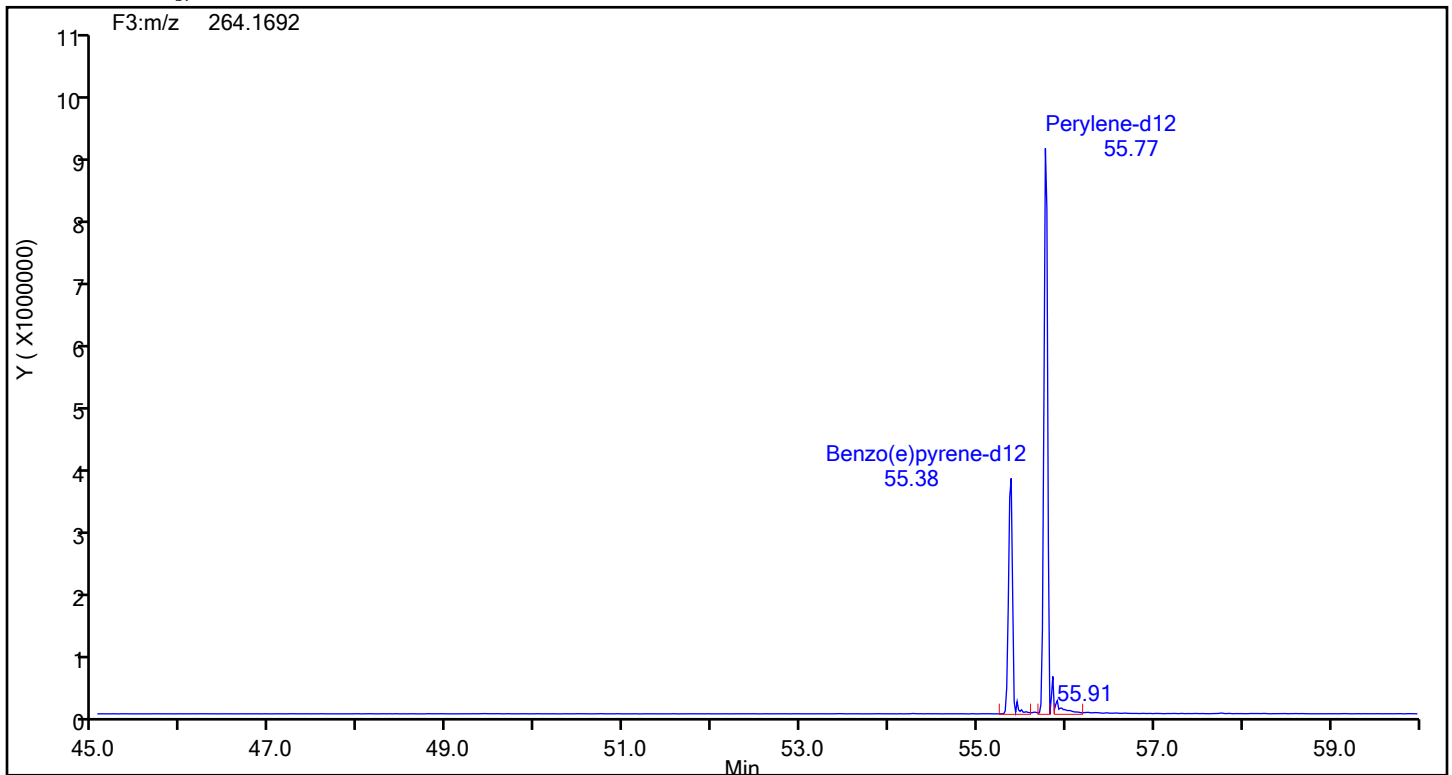
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



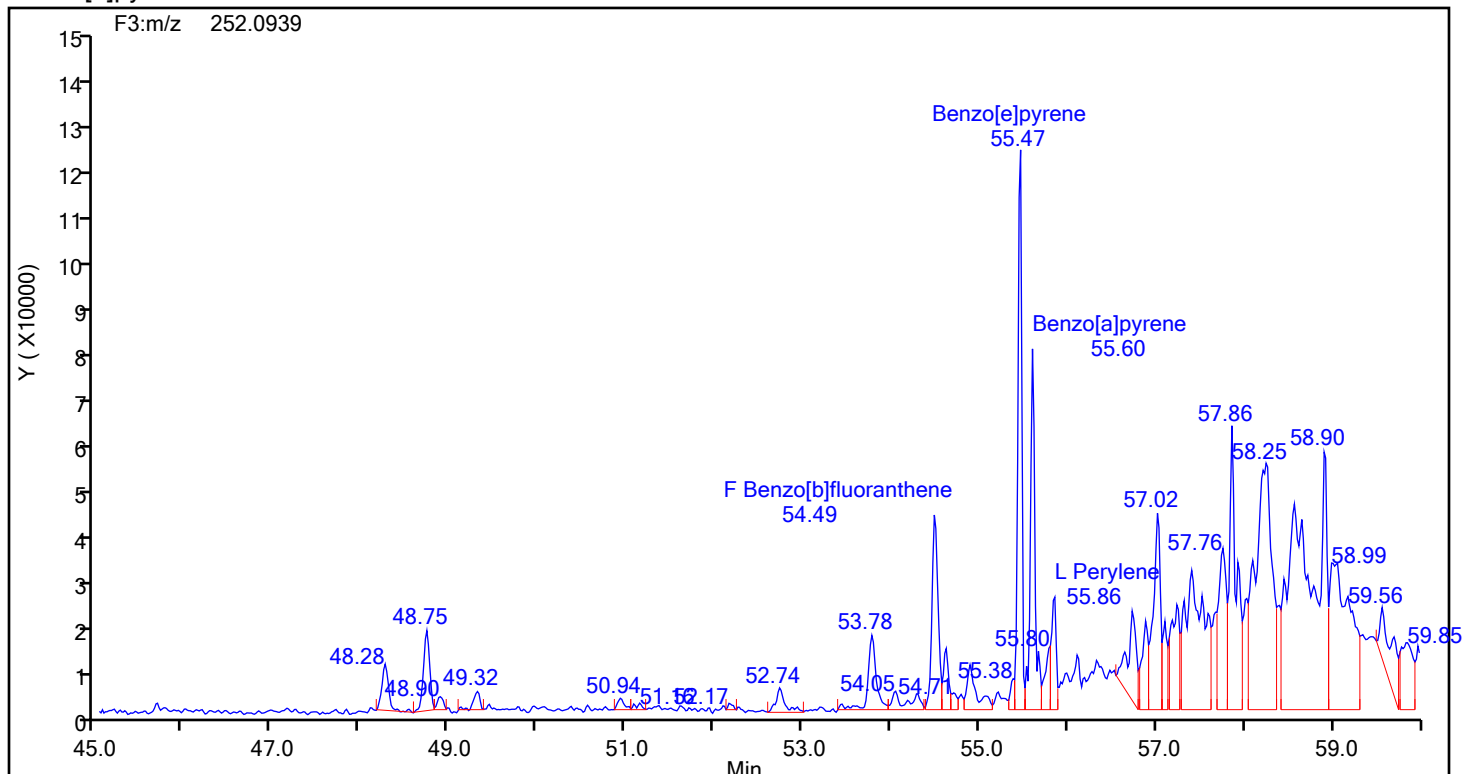
13C12-Benzo(j)fluoranthene Standards



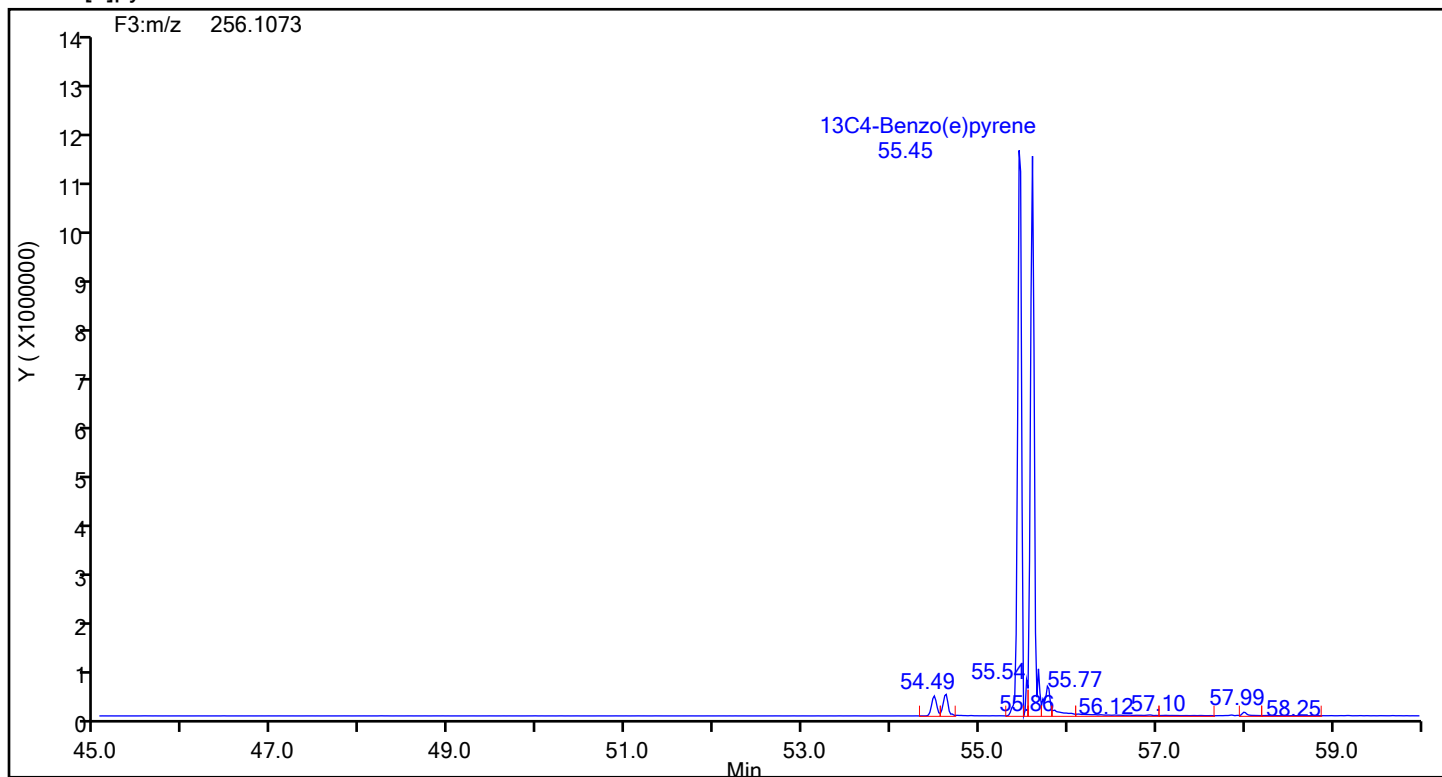
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d

Injection Date: 19-Jul-2024 00:57:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRAH ICAL

Client ID:

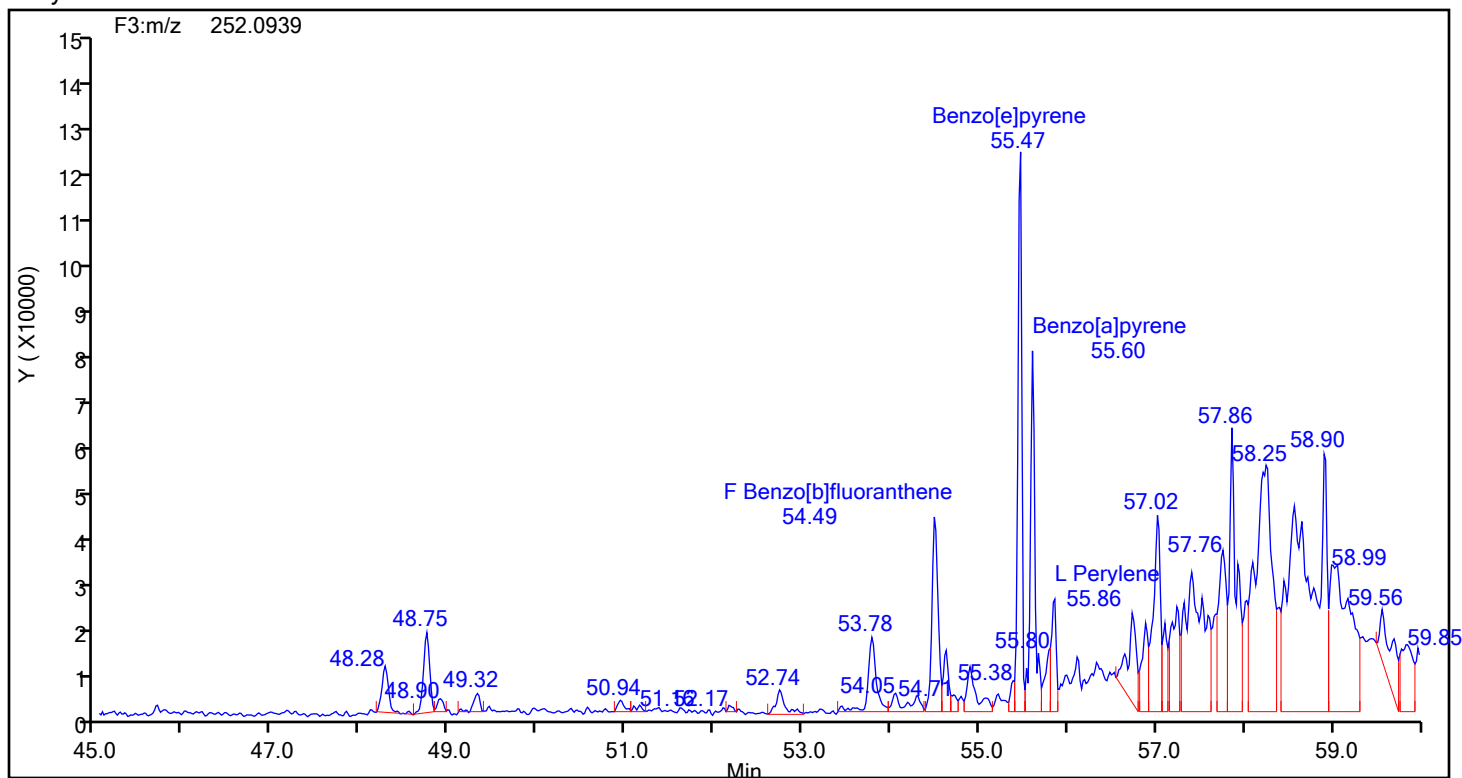
Worklist#: 88945

Sample Line#: 6

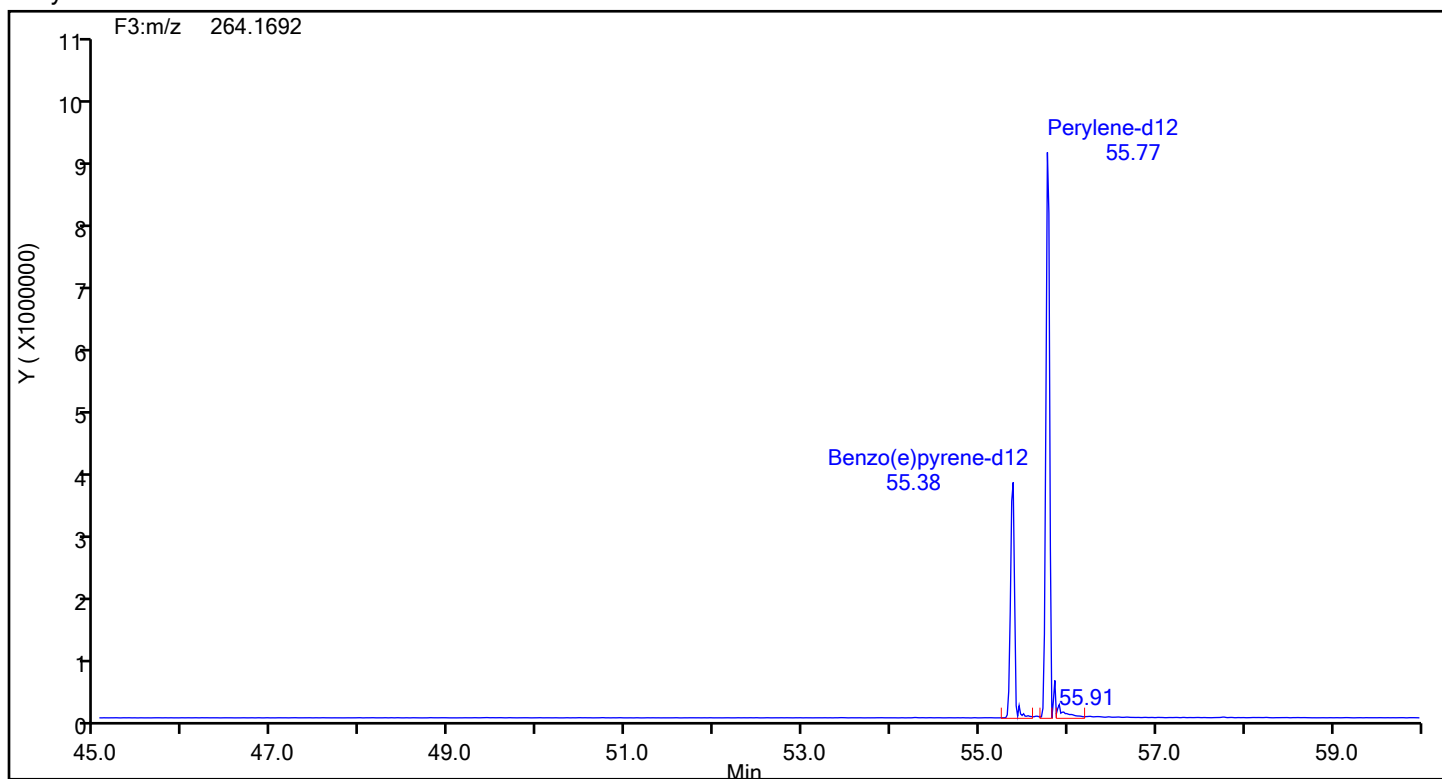
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

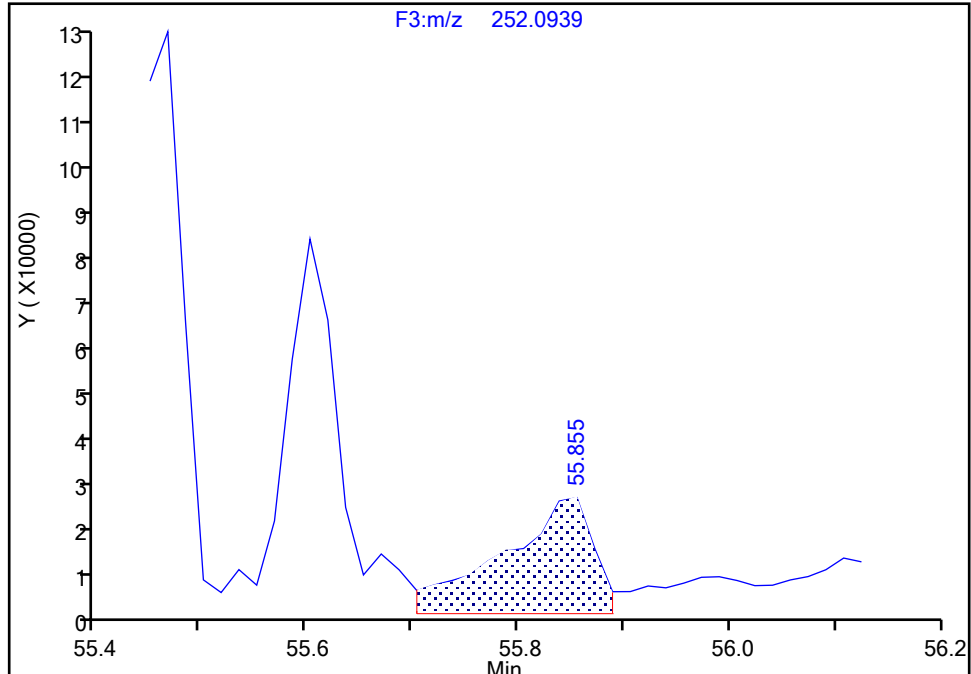
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Perylene, CAS: 198-55-0

Signal: 1

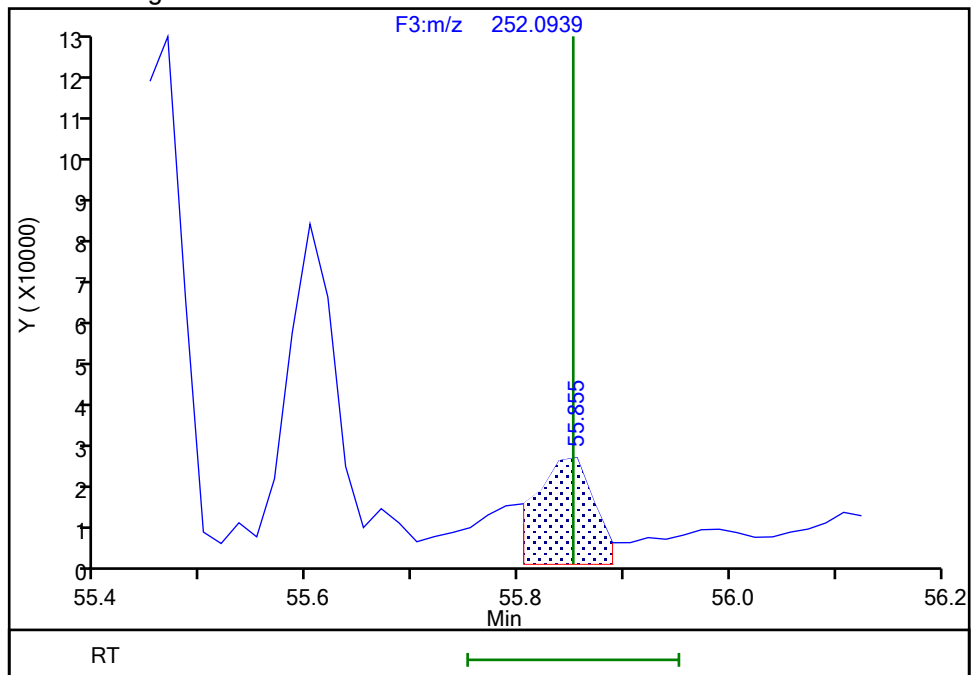
RT: 55.86
Area: 140896
Amount: 0.369369
Amount Units: pg/ul

Processing Integration Results



RT: 55.86
Area: 95514
Amount: 0.250397
Amount Units: pg/ul

Manual Integration Results



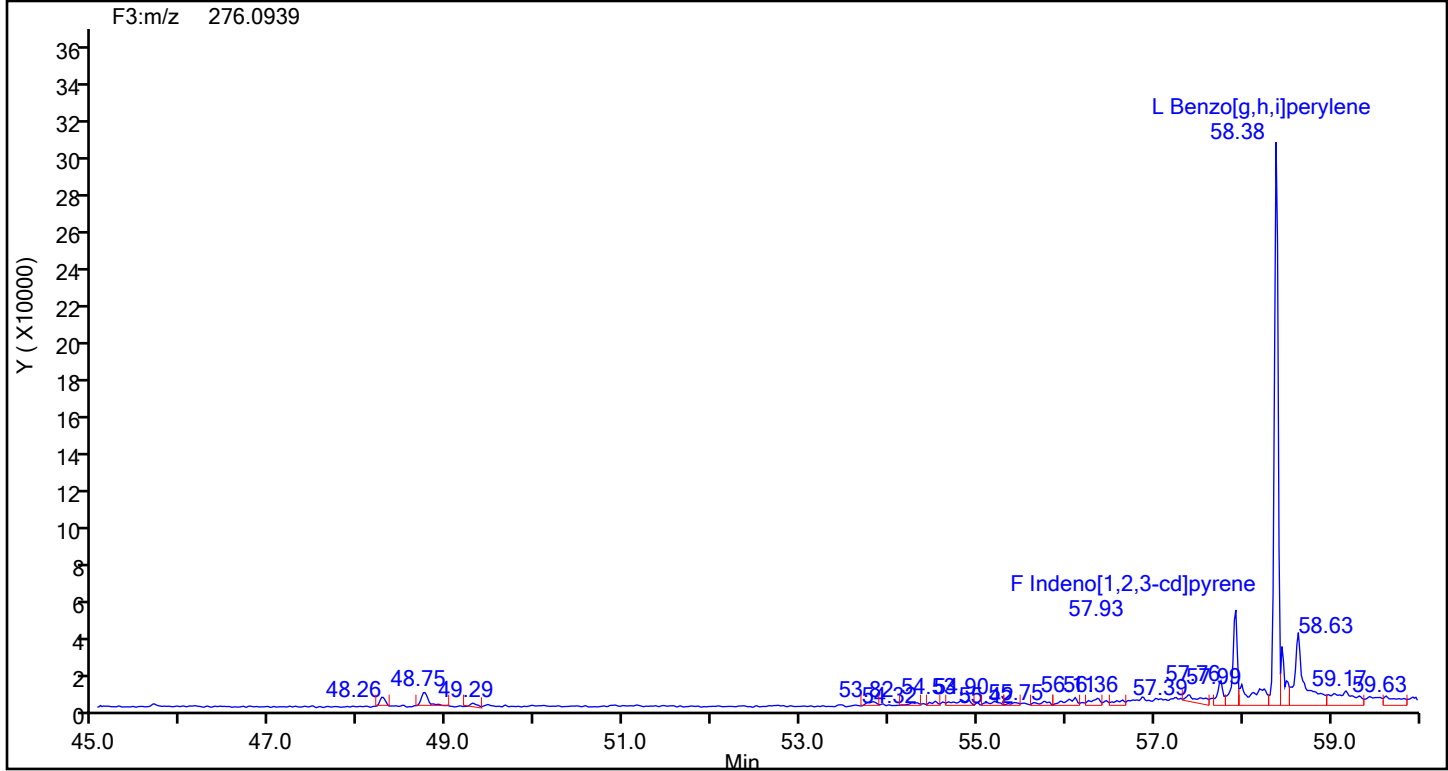
Reviewer: TT6I, 20-Jul-2024 10:07:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

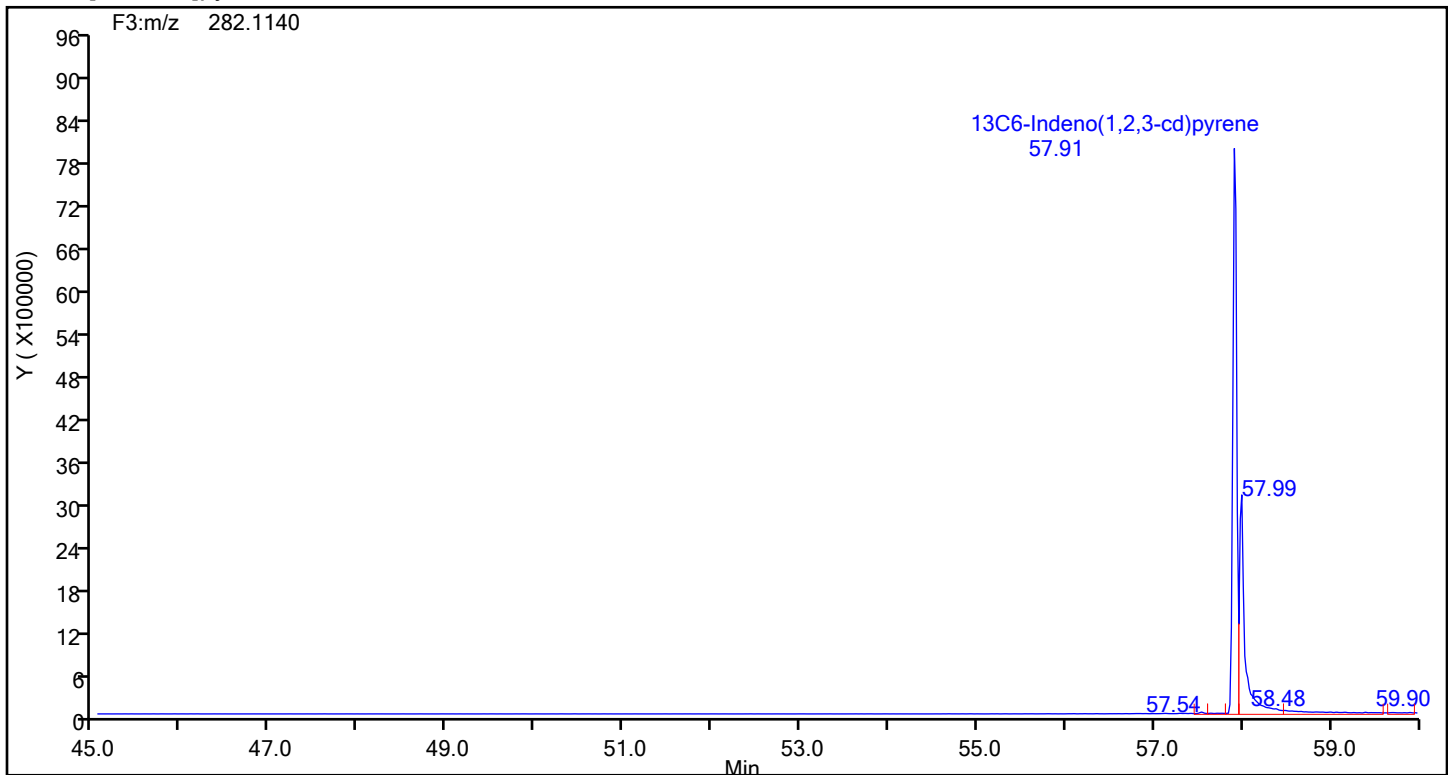
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Indeno[1,2,3-cd]pyrene

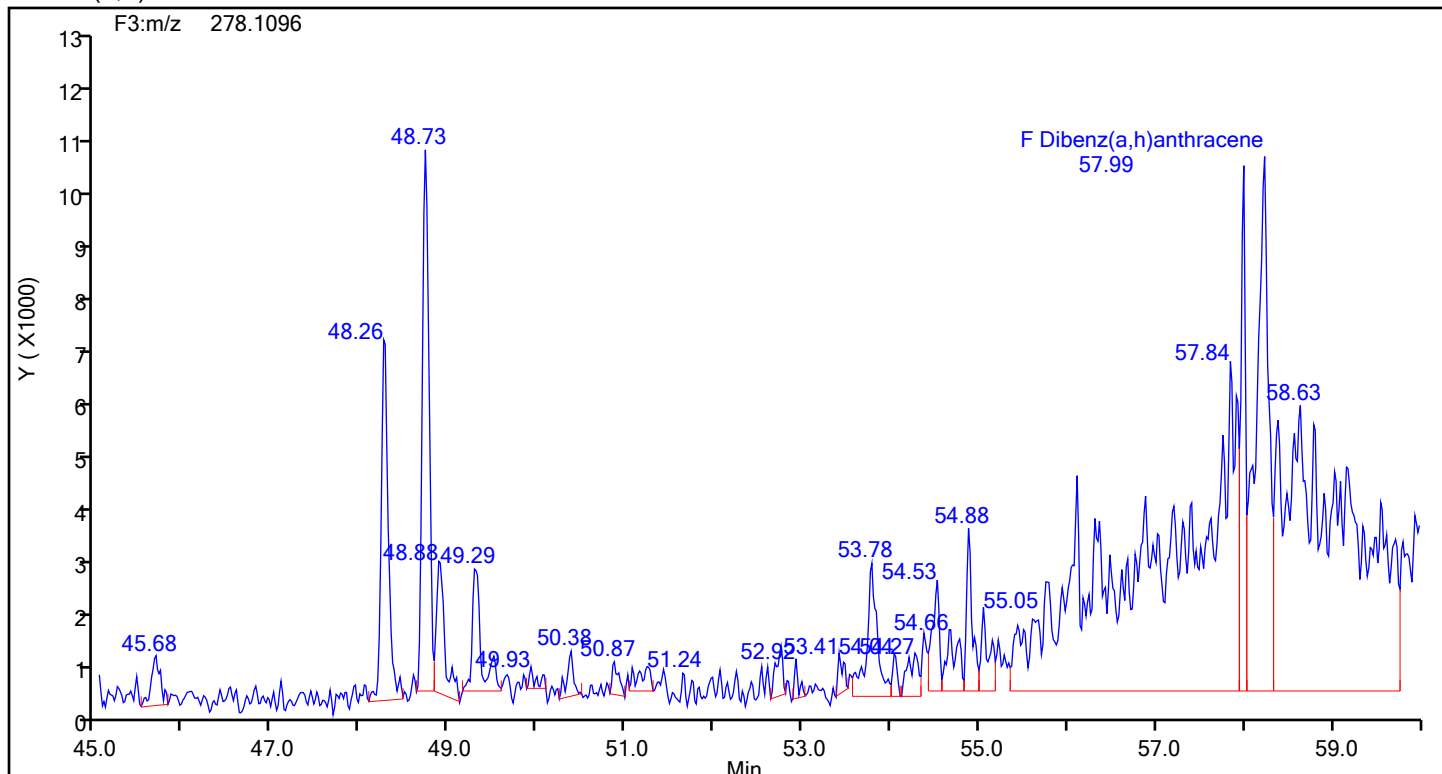


Indeno[1,2,3-cd]pyrene Standards

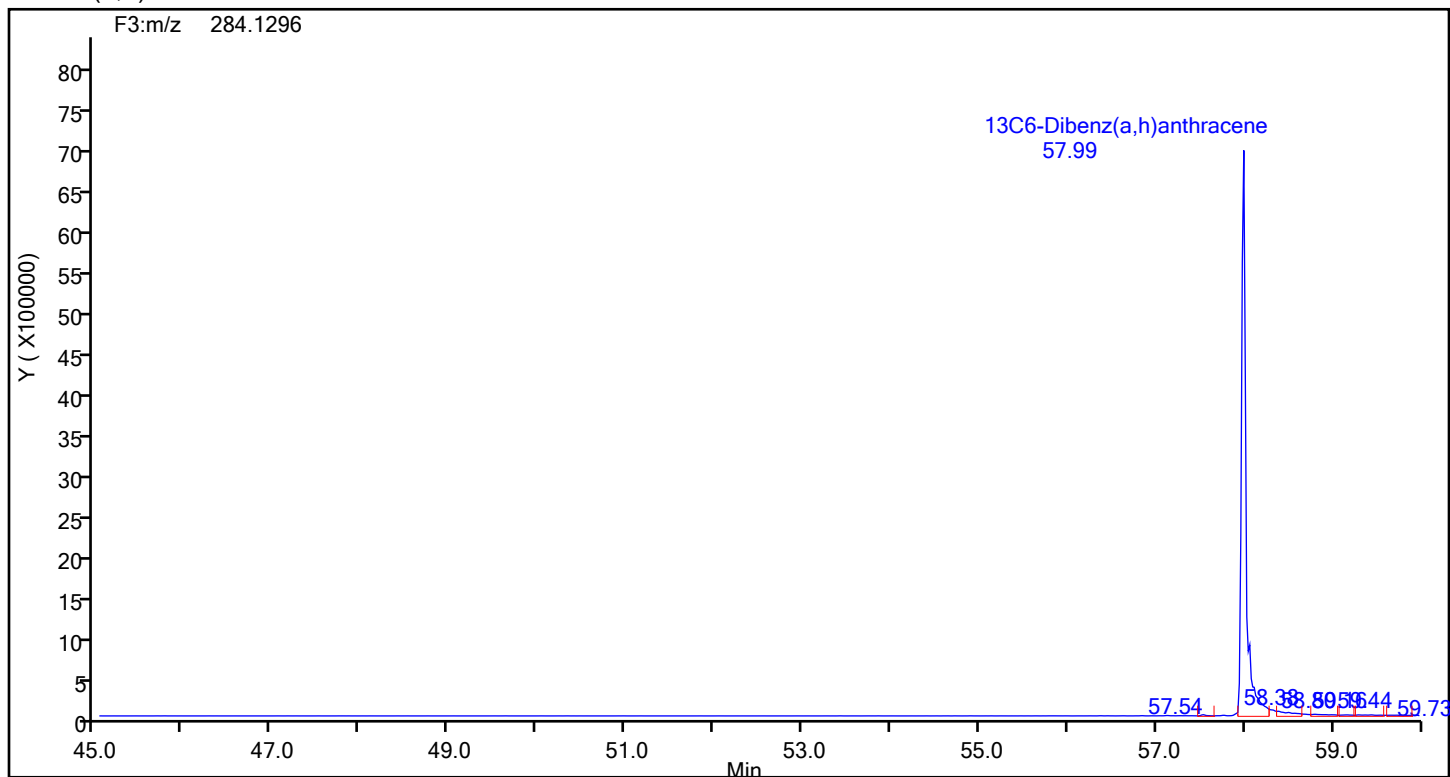


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88945 Sample Line#: 6
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

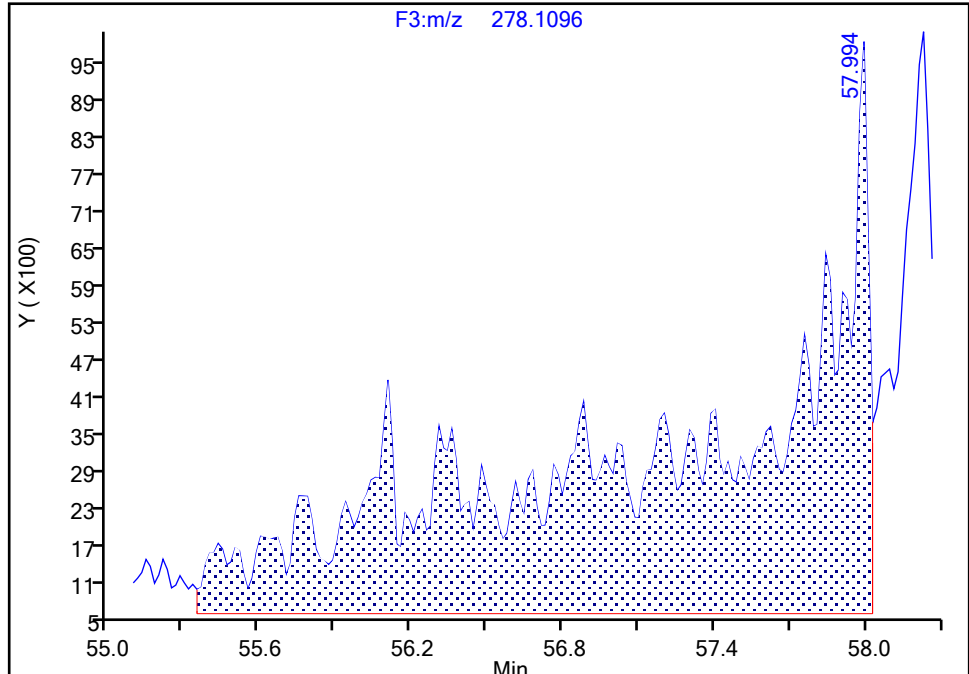
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

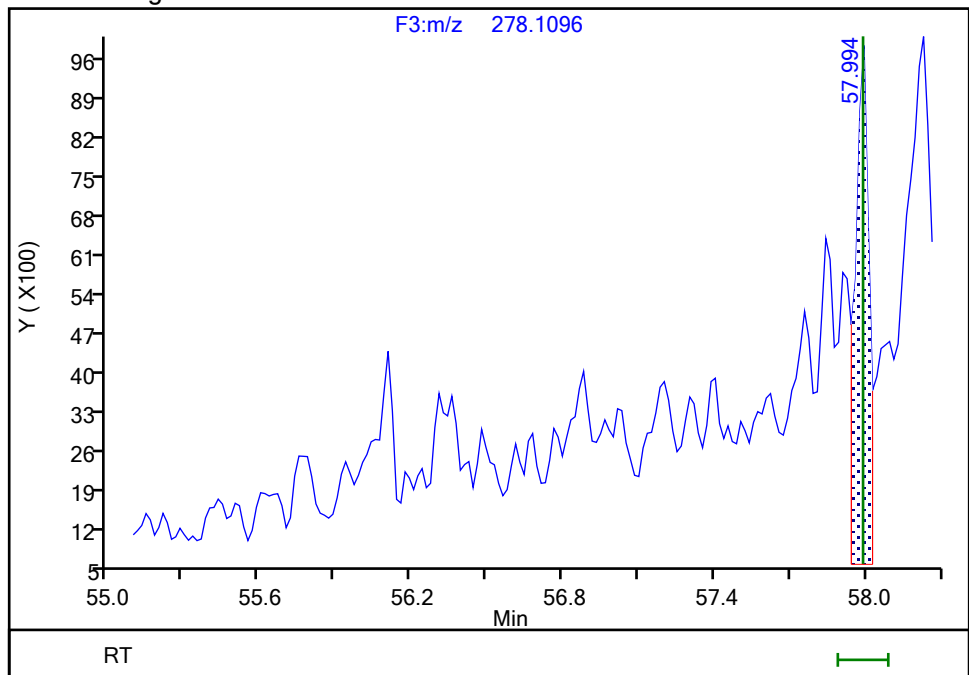
RT: 57.99
Area: 366947
Amount: 1.284072
Amount Units: pg/ul

Processing Integration Results



RT: 57.99
Area: 36216
Amount: 0.126732
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:08:01 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d

Injection Date: 19-Jul-2024 00:57:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

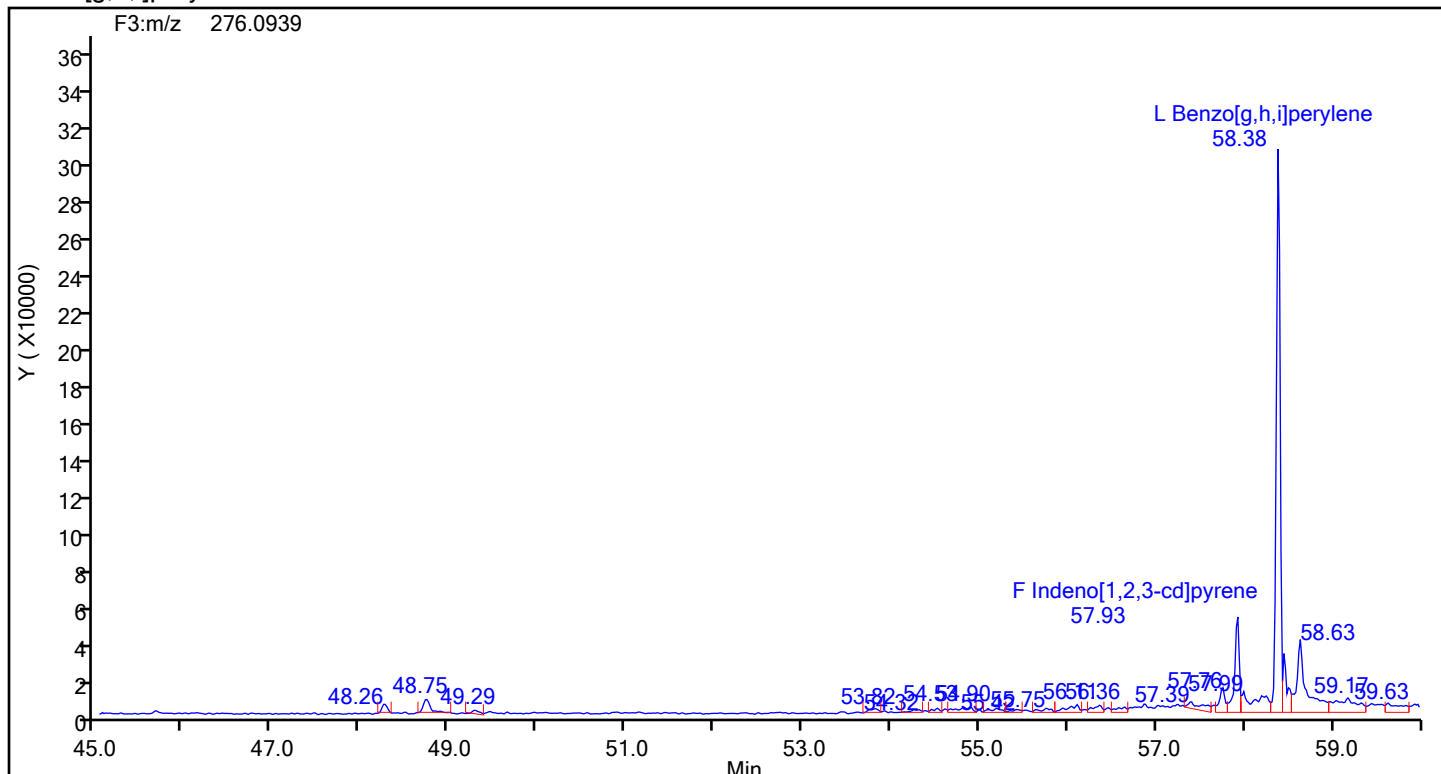
Worklist#: 88945

Sample Line#: 6

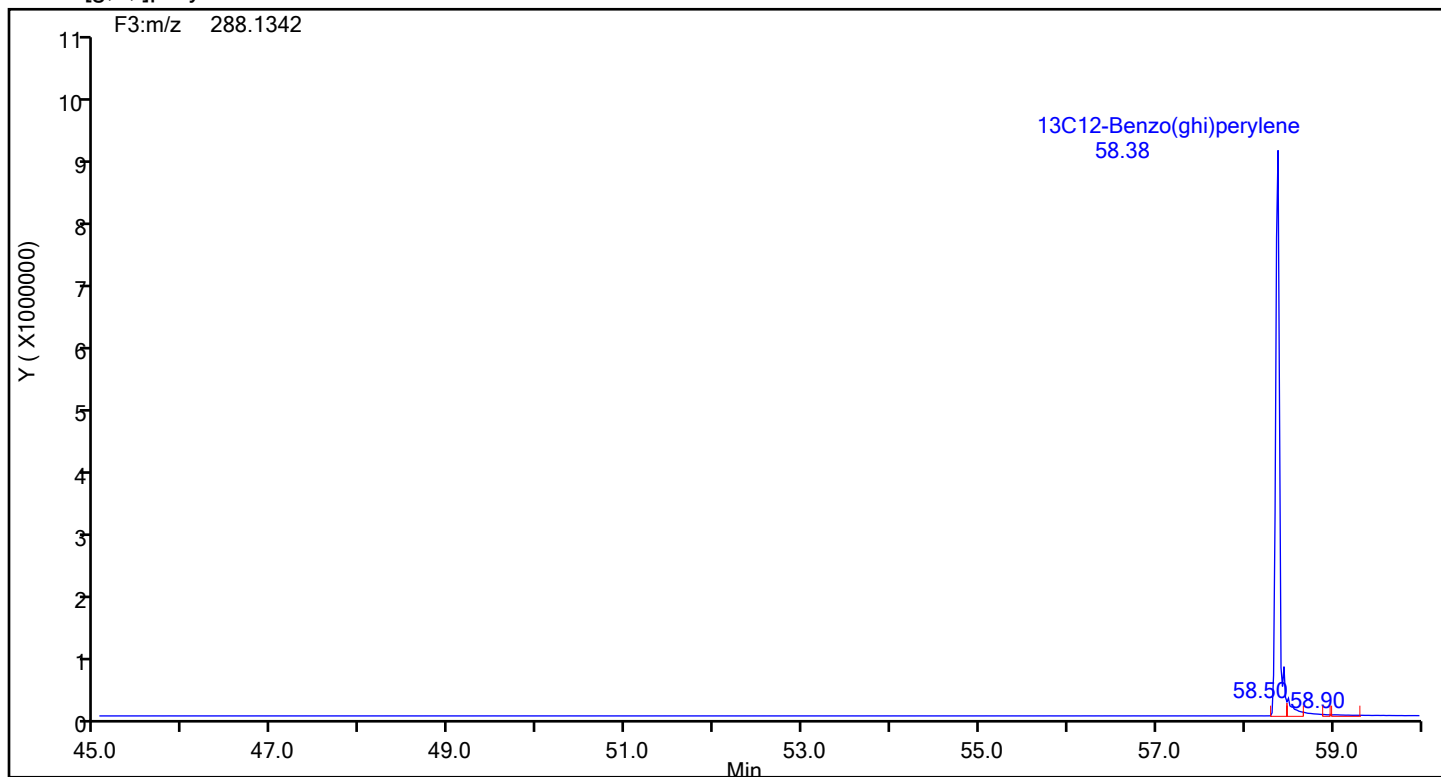
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



Eurofins Knoxville

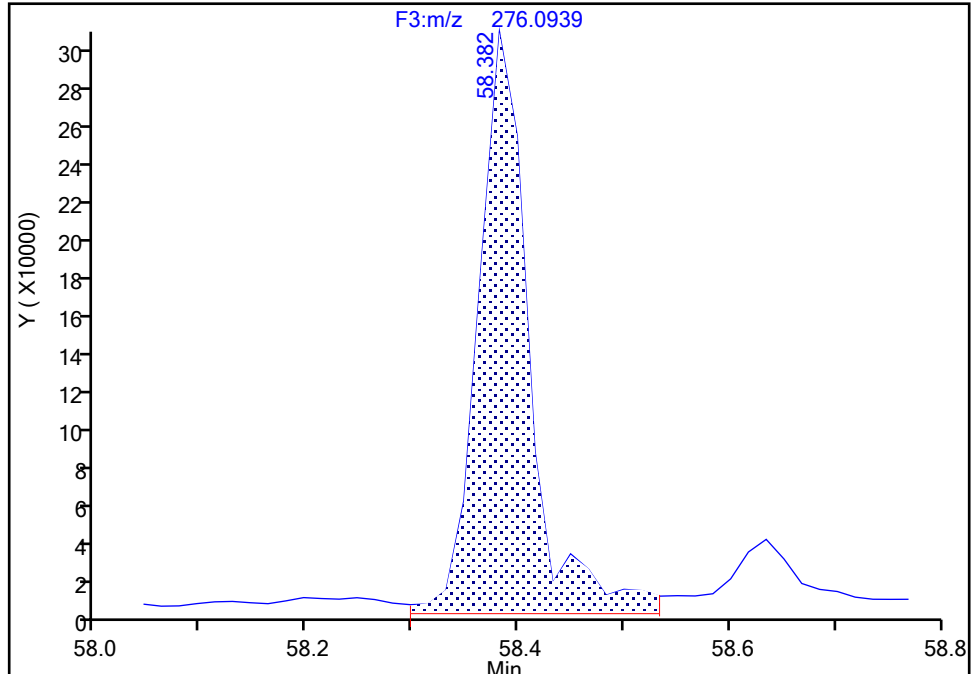
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

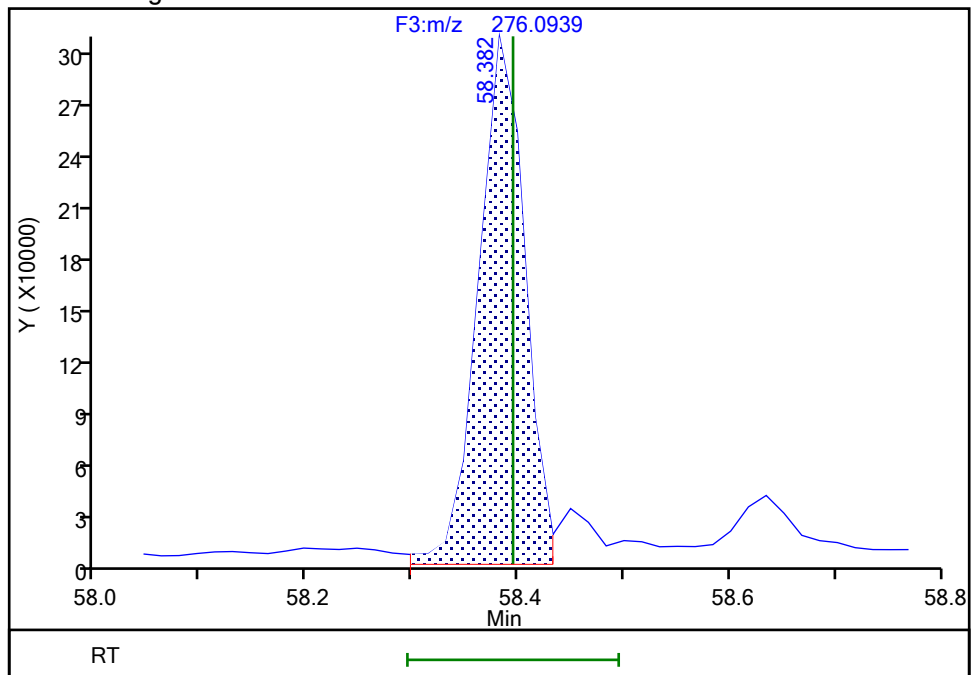
RT: 58.38
Area: 1009303
Amount: 2.813956
Amount Units: pg/ul

Processing Integration Results



RT: 58.38
Area: 917159
Amount: 2.672710
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:07:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

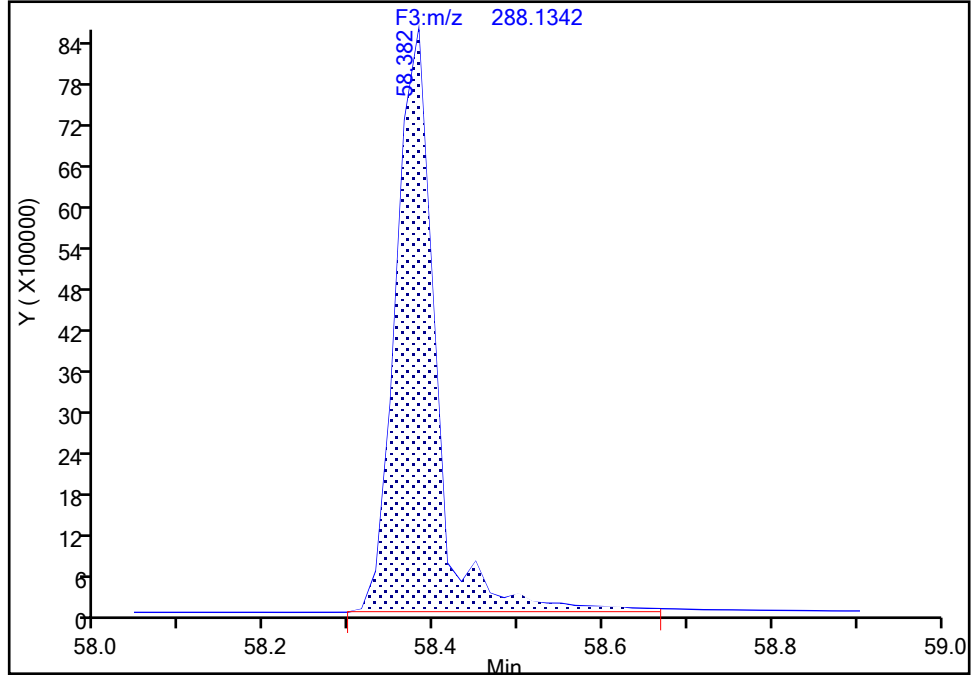
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Injection Date: 19-Jul-2024 00:57:00 Instrument ID: D3PAH
Lims ID: MB 140-88192/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRPAL ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

13C12-Benzo(ghi)perylene, CAS: 350820-11-0

Signal: 1

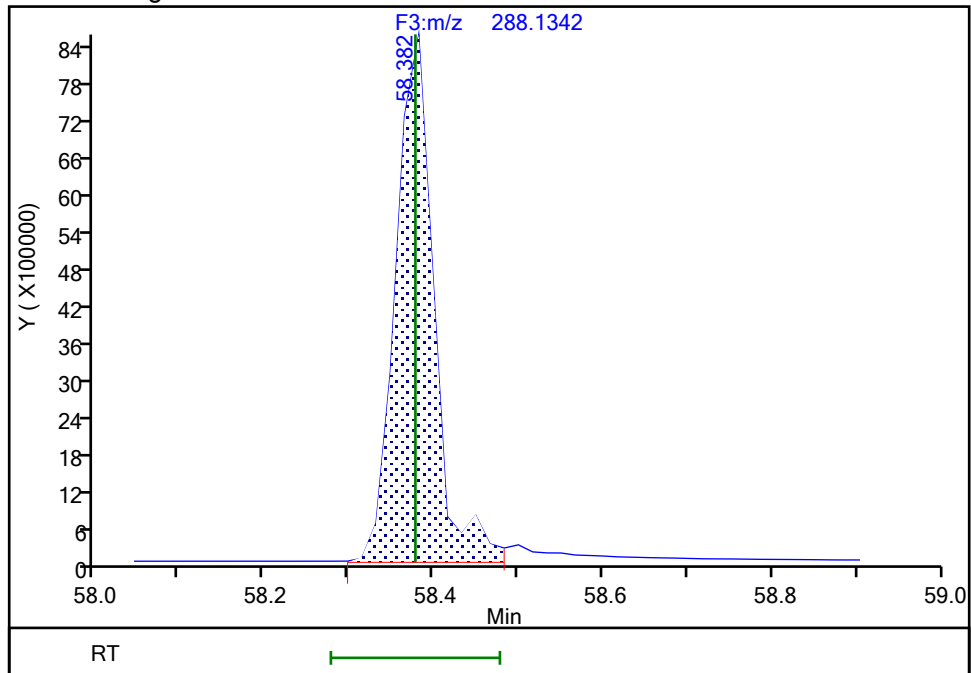
RT: 58.38
Area: 27939703
Amount: 90.284017
Amount Units: pg/ul

Processing Integration Results



RT: 58.38
Area: 26730705
Amount: 86.377276
Amount Units: pg/ul

Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:08:26 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\mb140-8819221-b_20240719005604.d
Lims ID: MB 140-88192/21-B
Client ID:
Sample Type: MB
Inject. Date: 19-Jul-2024 00:57:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033572-006
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 20-Jul-2024 10:15:05 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:15:05

Compound	Amount Added	Amount Recovered	% Rec.
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FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-88192/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8819219-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/18/2024 12:24</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88920</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	1224	++	75.0	75.0	0.0928
91-57-6	2-Methylnaphthalene	163.8		75.0	75.0	0.0451
208-96-8	Acenaphthylene	125.0		3.00	3.00	0.0386
83-32-9	Acenaphthene	141.4		30.0	30.0	0.0447
86-73-7	Fluorene	147.0		30.0	30.0	0.0477
85-01-8	Phenanthrene	164.4		6.00	6.00	0.0670
120-12-7	Anthracene	131.1		30.0	30.0	0.0667
206-44-0	Fluoranthene	159.9		6.00	6.00	0.0909
129-00-0	Pyrene	202.9		6.00	6.00	0.0874
56-55-3	Benzo[a]anthracene	162.5		6.00	6.00	0.106
218-01-9	Chrysene	160.9		6.00	6.00	0.106
205-99-2	Benzo[b]fluoranthene	143.0		30.0	30.0	0.0151
207-08-9	Benzo[k]fluoranthene	132.3		6.00	6.00	0.0145
192-97-2	Benzo[e]pyrene	146.0		6.00	6.00	0.0132
50-32-8	Benzo[a]pyrene	129.5		3.00	3.00	0.0126
198-55-0	Perylene	137.5		3.00	3.00	0.0120
193-39-5	Indeno[1,2,3-cd]pyrene	148.1		3.00	3.00	0.00992
53-70-3	Dibenz(a,h)anthracene	146.9		6.00	6.00	0.00923
191-24-2	Benzo[g,h,i]perylene	145.8		6.00	6.00	0.00863

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-88192/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8819219-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/18/2024 12:24</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88920</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	82		20-130
STL03357	13C6-2-Methylnaphthalene	70		20-130
189811-56-1	13C6-Acenaphthylene	91		20-130
189811-57-2	13C6-Acenaphthene	84		20-130
STL00616	13C6-Fluorene	91		20-130
1397194-60-3	13C6-Fluoranthrene	91		20-130
1397214-90-2	13C3-Pyrene	93		20-130
917378-11-1	13C6-Benzo (a) anthracene	94		20-130
1397177-72-8	13C6-Chrysene	91		20-130
STL03358	13C6-Benzo (b) fluoranthene	103		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	94		20-130
STL03382	13C4-Benzo (e) pyrene	92		20-130
STL03359	13C4-Benzo (a) pyrene	95		20-130
1520-96-3	Perylene-d12	95		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	103		20-130
STL03360	13C6-Dibenz (a,h) anthracene	90		20-130
350820-11-0	13C12-Benzo (ghi) perylene	82		20-130
189811-60-7	13C6-Anthracene	78		20-130
1189955-53-0	13C6-Phenanthrene	68		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d
Lims ID: LCS 140-88192/19-B
Client ID:
Sample Type: LCS
Inject. Date: 18-Jul-2024 12:24:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033564-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 18-Jul-2024 16:25:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 16:25:46

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:22	24542147		3.3746	82.2	82.2	0.007481	0.007481	82.20	
Naphthalene	11:22	258145410		1.2893	815.9	815.9	0.0619	0.0619	816	
D 13C6-2-Methylnaphthalene	13:46	9972337		1.6031	70.3	70.3	0.001752	0.001752	70.31	
2-Methylnaphthalene	13:46	13924434		1.2786	109.2	109.2	0.0301	0.0301	109	
D 13C6-Acenaphthylene	16:38	13321028		1.6520	91.1	91.1	0.002775	0.002775	91.14	
Acenaphthylene	16:38	14394395		2.3661	83.3	83.3	0.0257	0.0257	83.34	
* Acenaphthene-d10	17:12	4423572		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:19	7299305		0.9792	84.3	84.3	0.003363	0.003363	84.26	
Acenaphthene	17:19	8737327		1.2697	94.3	94.3	0.0298	0.0298	94.28	
Fluorene	19:36	8753220		1.2532	98.0	98.0	0.0318	0.0318	98.00	
D 13C6-Fluorene	19:36	7127188		0.8898	90.5	90.5	0.000798	0.000798	90.53	
D 13C6-Phenanthrene	24:57	9947686		0.5724	67.7	67.7	0.003537	0.003537	67.69	
Phenanthrene	24:57	12040851		1.1044	109.6	109.6	0.0447	0.0447	110	
D 13C6-Anthracene	25:16	9028277		0.4523	77.7	77.7	0.004476	0.004476	77.74	
Anthracene	25:17	10720953		1.3586	87.4	87.4	0.0445	0.0445	87.41	
D 13C6-Fluoranthrene	33:40	28121730		1.1994	91.3	91.3	0.0152	0.0152	91.33	
Fluoranthene	33:40	34518978		1.1513	106.6	106.6	0.0606	0.0606	107	
* Pyrene-d10	35:13	12836230		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:21	32219217		1.3512	92.9	92.9	0.0181	0.0181	92.88	
Pyrene	35:21	46424034		1.0652	135.3	135.3	0.0583	0.0583	135	
D 13C6-Benzo(a)anthracene	45:51	33736552		1.5189	94.5	94.5	0.0110	0.0110	94.47	
Benzo[a]anthracene	45:52	35585367		0.9739	108.3	108.3	0.0707	0.0707	108	
D 13C6-Chrysene	46:08	34912110		1.6287	91.2	91.2	0.0103	0.0103	91.17	
Chrysene	46:09	36752193		0.9815	107.3	107.3	0.0705	0.0705	107	
D 13C6-Benzo(b)fluoranthene	54:30	35542520		1.4621	103.4	103.4	0.001495	0.001495	103	
Benzo[b]fluoranthene	54:30	38121369		1.1249	95.3	95.3	0.0100	0.0100	95.35	
D 13C6-Benzo(k)fluoranthene	54:37	38825282		1.7507	94.3	94.3	0.001249	0.001249	94.33	
Benzo[k]fluoranthene	54:38	38607773		1.1271	88.2	88.2	0.009640	0.009640	88.23	
* Benzo(e)pyrene-d12	55:22	11755008		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:27	35554698		1.6368	92.4	92.4	0.003495	0.003495	92.39	
Benzo[e]pyrene	55:27	34659992		1.0013	97.4	97.4	0.008810	0.008810	97.36	
D 13C4-Benzo(a)pyrene	55:37	34735790		1.5508	95.3	95.3	0.003689	0.003689	95.27	
Benzo[a]pyrene	55:37	33383129		1.1130	86.3	86.3	0.008427	0.008427	86.35	
D Perylene-d12	55:47	26623551		1.1917	95.0	95.0	0.0140	0.0140	95.03	
Perylene	55:51	34912686		1.4307	91.7	91.7	0.008023	0.008023	91.66	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	24673123		1.0218	102.7	102.7	0.007841	0.007841	103	
Indeno[1,2,3-cd]pyrene	57:55	27407024		1.1249	98.7	98.7	0.006616	0.006616	98.74	M
D 13C6-Dibenz(a,h)anthracene	57:59	22384023		1.0553	90.2	90.2	0.004863	0.004863	90.22	
Dibenz(a,h)anthracene	57:59	24793101		1.1314	97.9	97.9	0.006153	0.006153	97.90	
D 13C12-Benzo(ghi)perylene	58:22	24649993		1.2749	82.2	82.2	0.001078	0.001078	82.24	
Benzo[g,h,i]perylene	58:23	30767196		1.2838	97.2	97.2	0.005756	0.005756	97.23	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d
Lims ID: LCS 140-88192/19-B
Client ID:
Sample Type: LCS
Inject. Date: 18-Jul-2024 12:24:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033564-002
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 18-Jul-2024 16:25:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 16:25:46

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:22	11:24	-3	0.661	24542147	8359535	313	782	26708		
Naphthalene											
128.0626	11:22	11:21	-3	1.000	258145410	85440138	2667	6667	32036		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	-1	0.800	9972337	4476537	35	87	127901		
2-Methylnaphthalene											
142.0783	13:46	13:46	-1	1.001	13924434	6355513	688	1720	9238		
13C6-Acenaphthylene											
158.0828	16:38	16:37	-1	0.967	13321028	4623016	57	142	81106		
Acenaphthylene											
152.0626	16:38	16:39	-1	1.000	14394395	4865331	596	1490	8163		
Acenaphthene-d10											
164.1404	17:12	17:13	-1		4423572	1548909	25	62	61956		
13C6-Acenaphthene											
160.0984	17:19	17:19	-1	1.007	7299305	2447777	41	102	59702		
Acenaphthene											
154.0783	17:19	17:18	-1	1.000	8737327	2966082	371	927	7995		
Fluorene											
166.0783	19:36	19:35	-1	1.000	8753220	2492904	330	825	7554		
13C6-Fluorene											
172.0984	19:36	19:35	-1	1.140	7127188	2072007	9	22	230223		
13C6-Phenanthrene											
184.0984	24:57	24:57	-1	0.708	9947686	2303908	39	97	59075		
Phenanthrene											
178.0783	24:57	24:56	0	1.000	12040851	2694486	455	1137	5922		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:16	25:16	-1	0.718	9028277	1881037	39	97	48232		
Anthracene											
178.0783	25:17	25:15	0	1.000	10720953	2230140	455	1137	4901		
13C6-Fluoranthrene											
208.0984	33:40	33:39	0	0.956	28121730	5522331	349	872	15823		
Fluoranthene											
202.0783	33:40	33:40	0	1.000	34518978	6833830	1541	3852	4435		
Pyrene-d10											
212.1404	35:13	35:13	0		12836230	2395396	25	62	95816		
13C3-Pyrene											
205.0883	35:21	35:20	0	1.004	32219217	6203011	469	1172	13226		
Pyrene											
202.0783	35:21	35:20	0	1.000	46424034	8969610	1541	3852	5821		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:51	-1	1.303	33736552	5963999	511	1277	11671		
Benzo[a]anthracene											
228.0939	45:52	45:53	-1	1.000	35585367	6200403	1642	4105	3776		
13C6-Chrysene											
234.1140	46:08	46:07	-1	1.310	34912110	5933299	511	1277	11611		
Chrysene											
228.0939	46:09	46:09	-1	1.000	36752193	6299218	1642	4105	3836		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:30	-1	0.984	35542520	9671045	67	167	144344		E
Benzo[b]fluoranthene											
252.0939	54:30	54:29	-1	1.000	38121369	10386232	437	1092	23767		
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:37	-1	0.986	38825282	10050949	67	167	150014		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	-1	1.000	38607773	10267192	437	1092	23495		
Benzo(e)pyrene-d12											
264.1692	55:22	55:23	-1		11755008	3819019	510	1275	7488		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:28	-1	1.002	35554698	12379050	175	437	70737		
Benzo[e]pyrene											
252.0939	55:27	55:28	-1	1.000	34659992	11872964	437	1092	27169		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:37	-1	1.004	34735790	11642352	175	437	66528		
Benzo[a]pyrene											
252.0939	55:37	55:36	-1	1.000	33383129	11503056	437	1092	26323		
Perylene-d12											
264.1692	55:47	55:47	-1	1.007	26623551	9513965	510	1275	18655		
Perylene											
252.0939	55:51	55:51	-1	1.001	34912686	12406517	437	1092	28390		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	-1	1.046	24673123	8732827	245	612	35644		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											M
276.0939	57:55	57:55	-1	1.000	27407024	9904512	260	650	38094		M
13C6-Dibenz(a,h)anthracene											
284.1296	57:59	57:59	-1	1.047	22384023	7972976	157	392	50783		
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	-1	1.000	24793101	8509579	222	555	38331		
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:22	-1	1.054	24649993	8796617	42	105	209443		
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	-1	1.000	30767196	10394240	260	650	39978		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

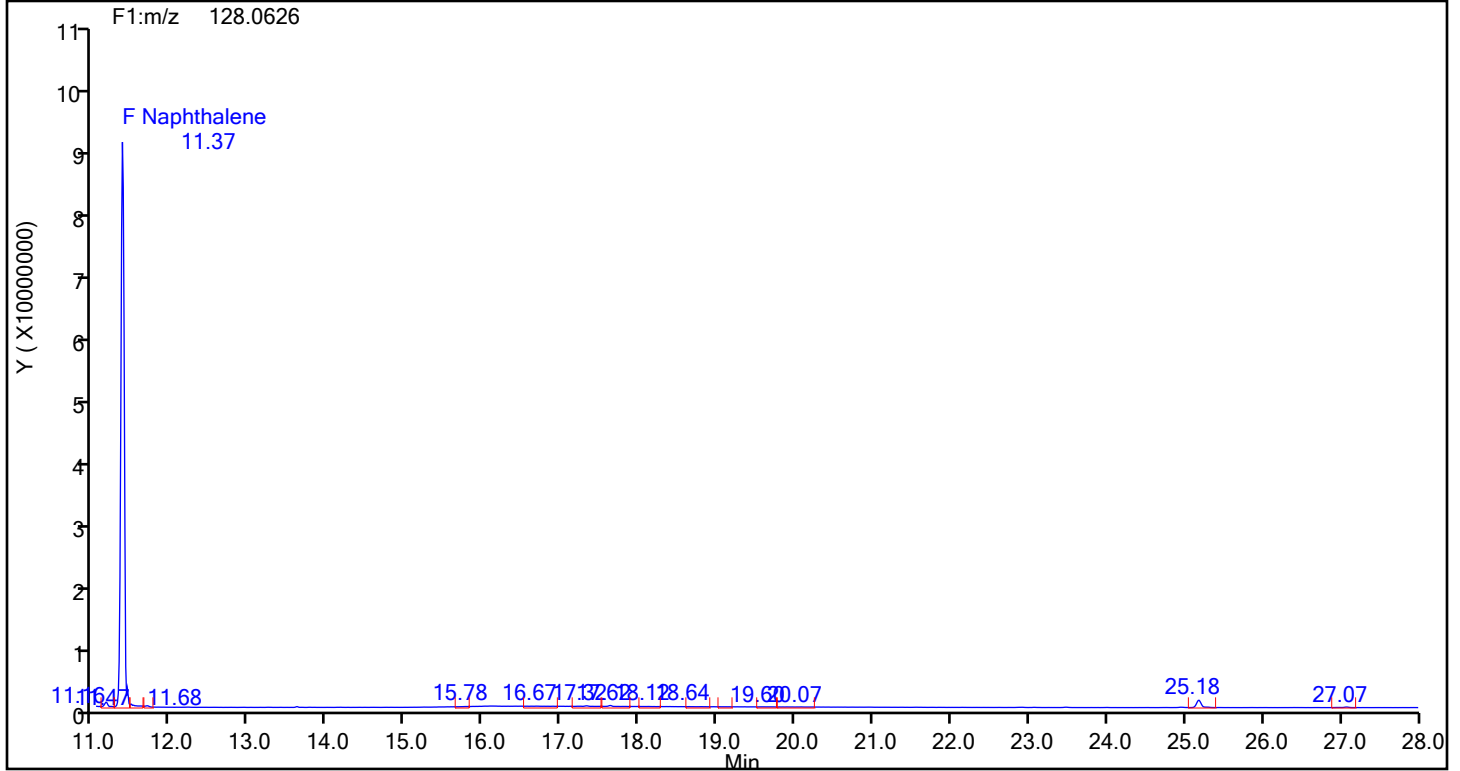
Worklist#: 88920

Sample Line#: 2

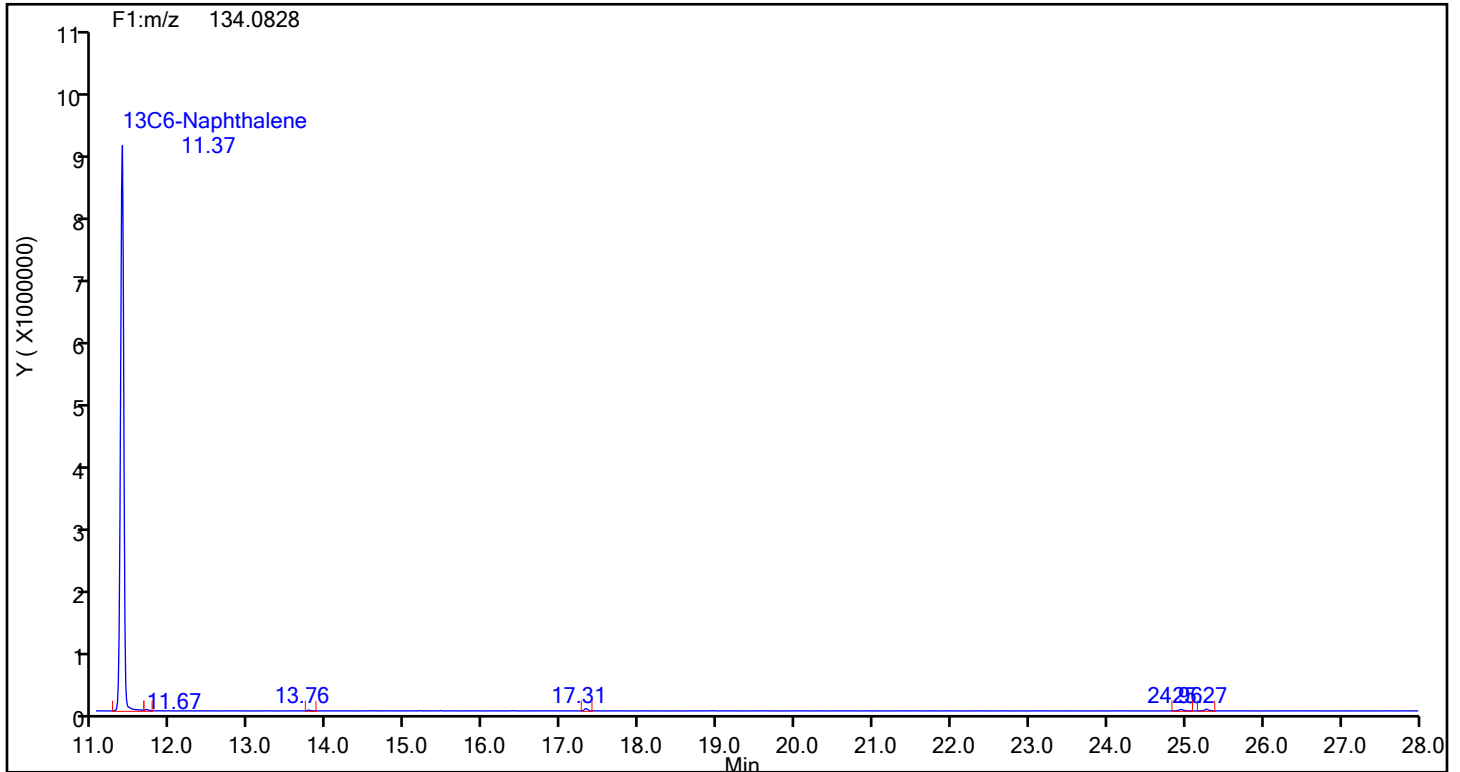
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Naphthalene



Naphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

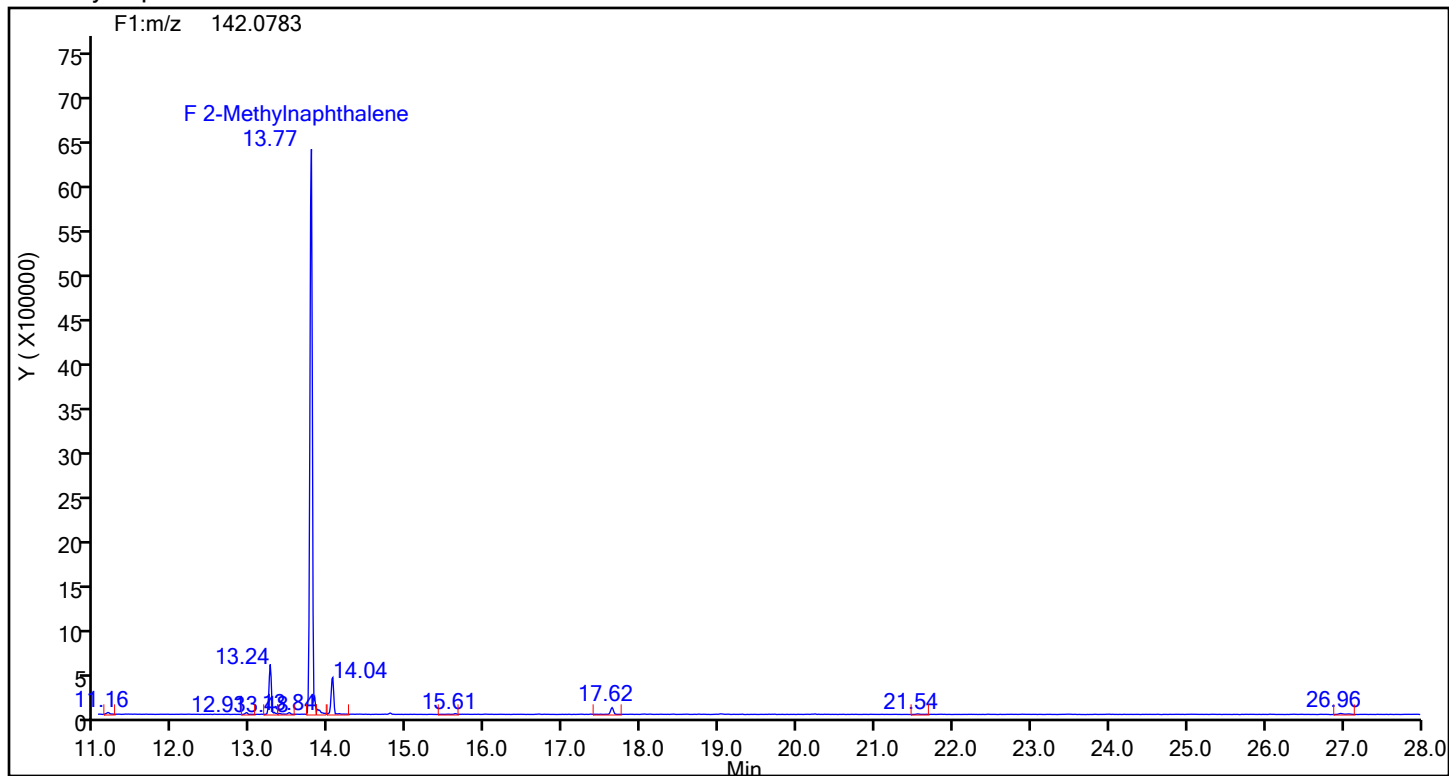
Worklist#: 88920

Sample Line#: 2

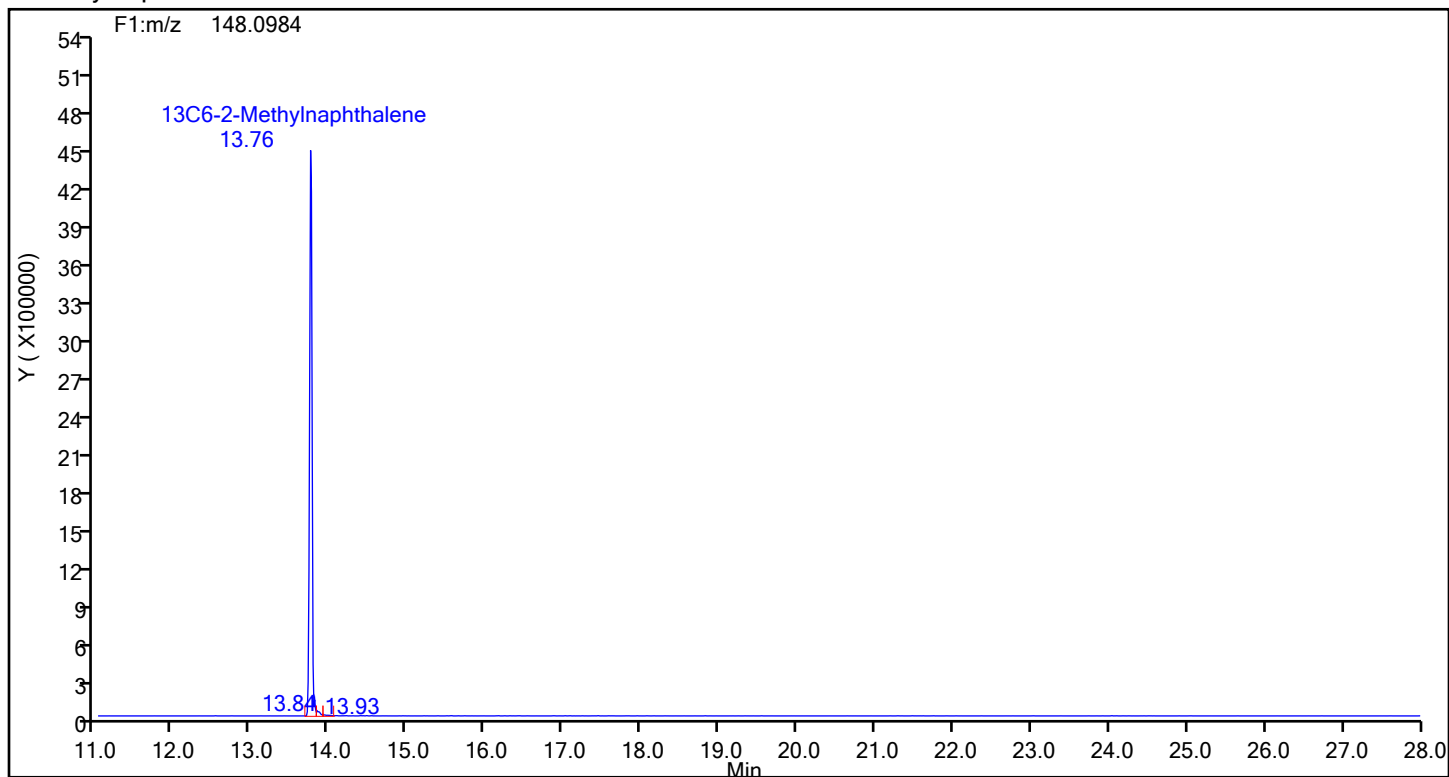
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

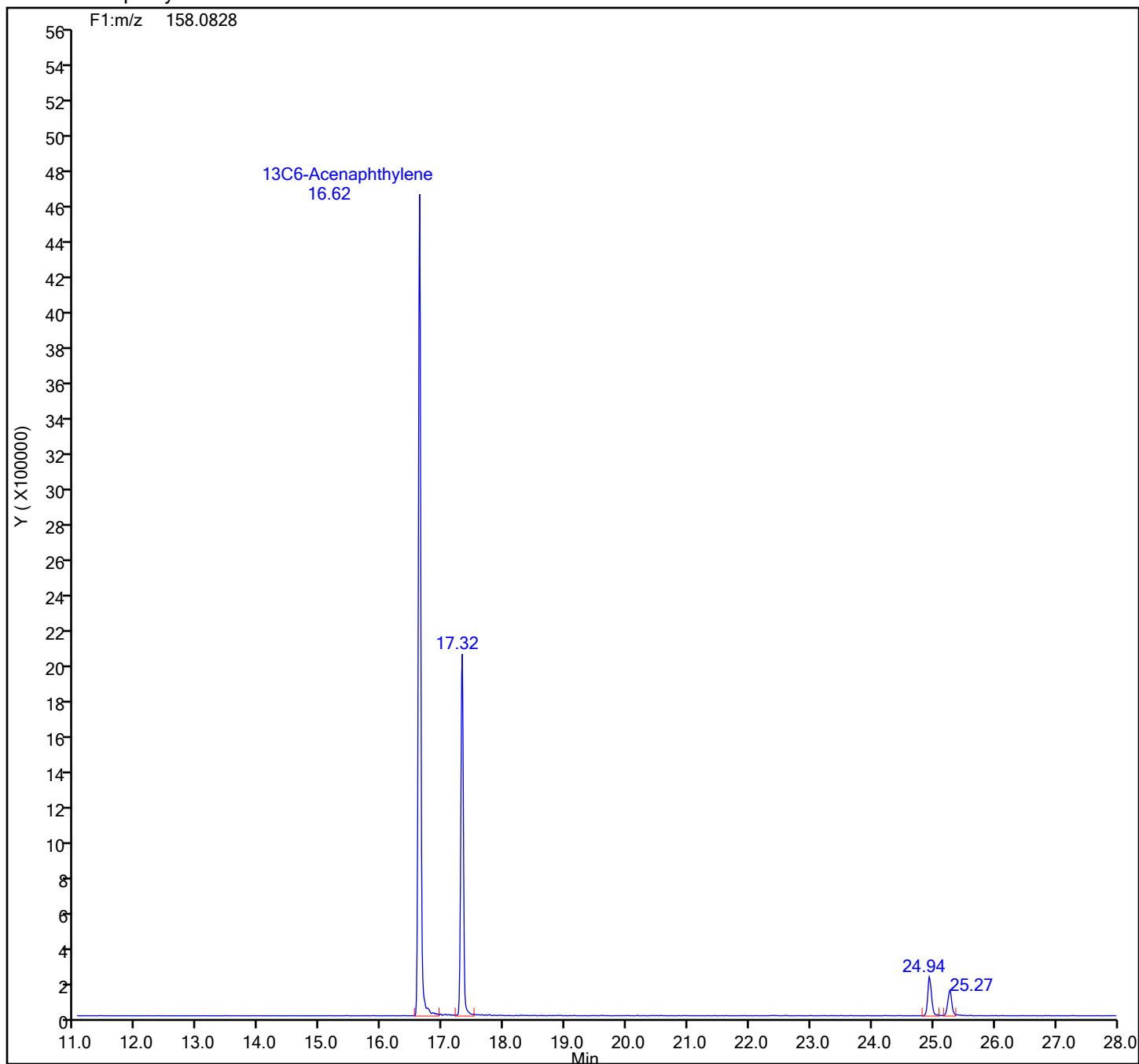
Worklist#: 88920

Sample Line#: 2

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

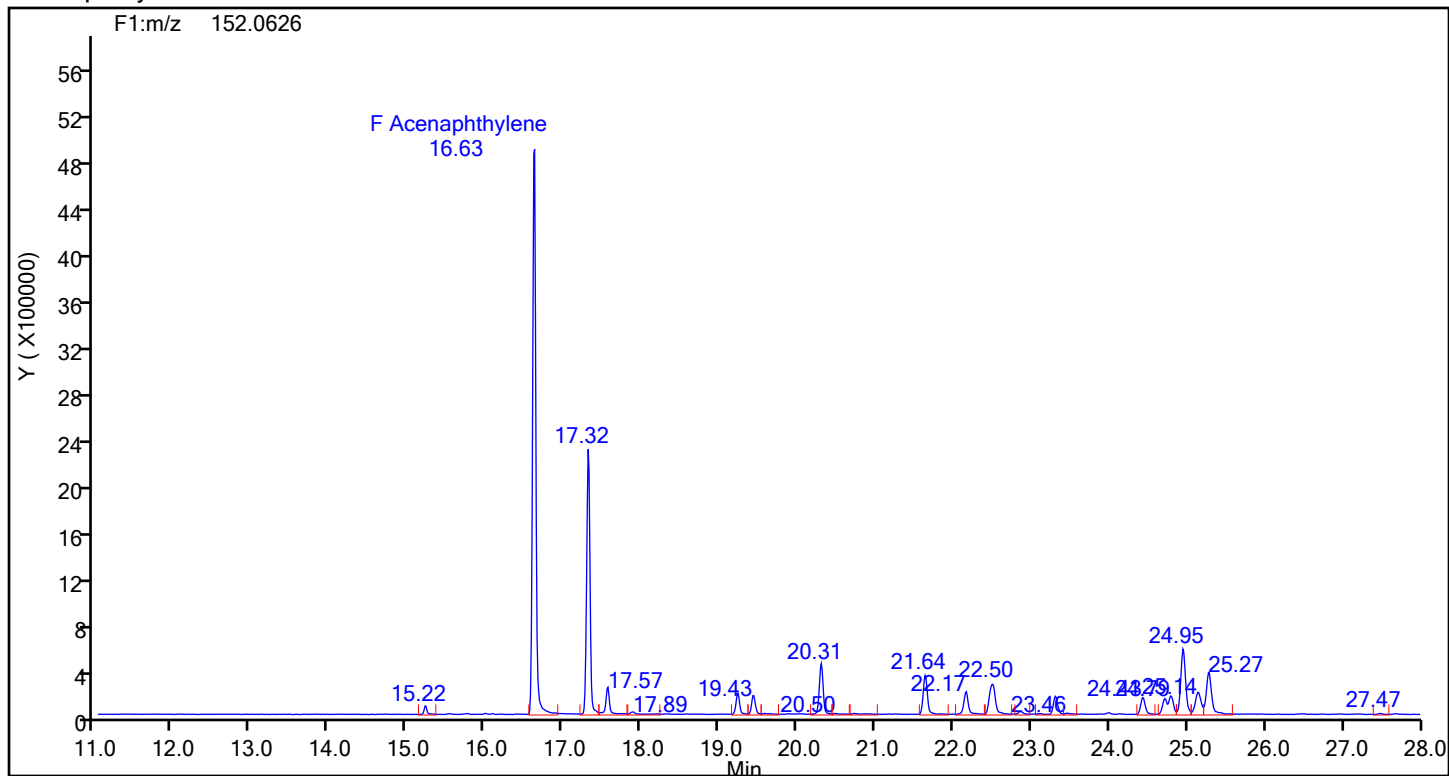
Worklist#: 88920

Sample Line#: 2

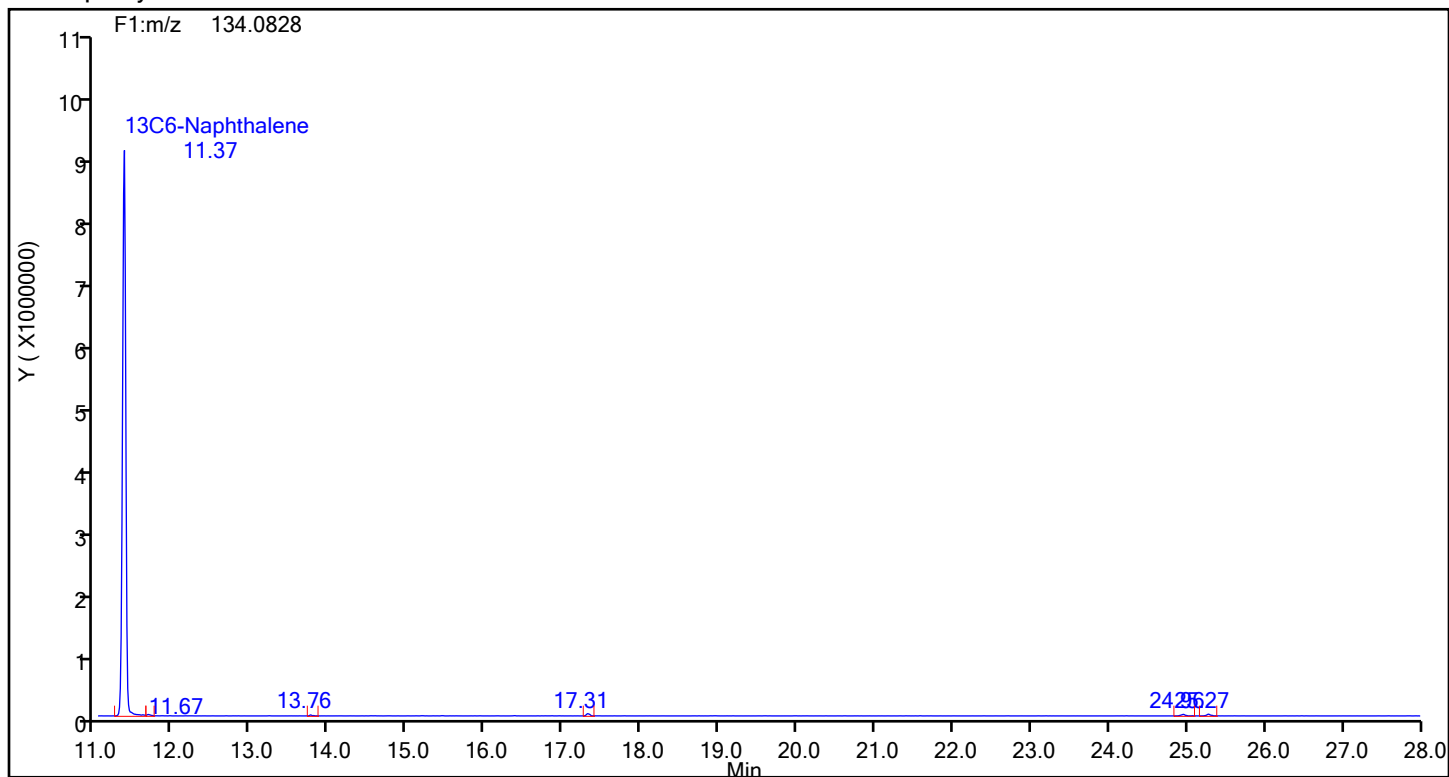
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthylene



Acenaphthylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

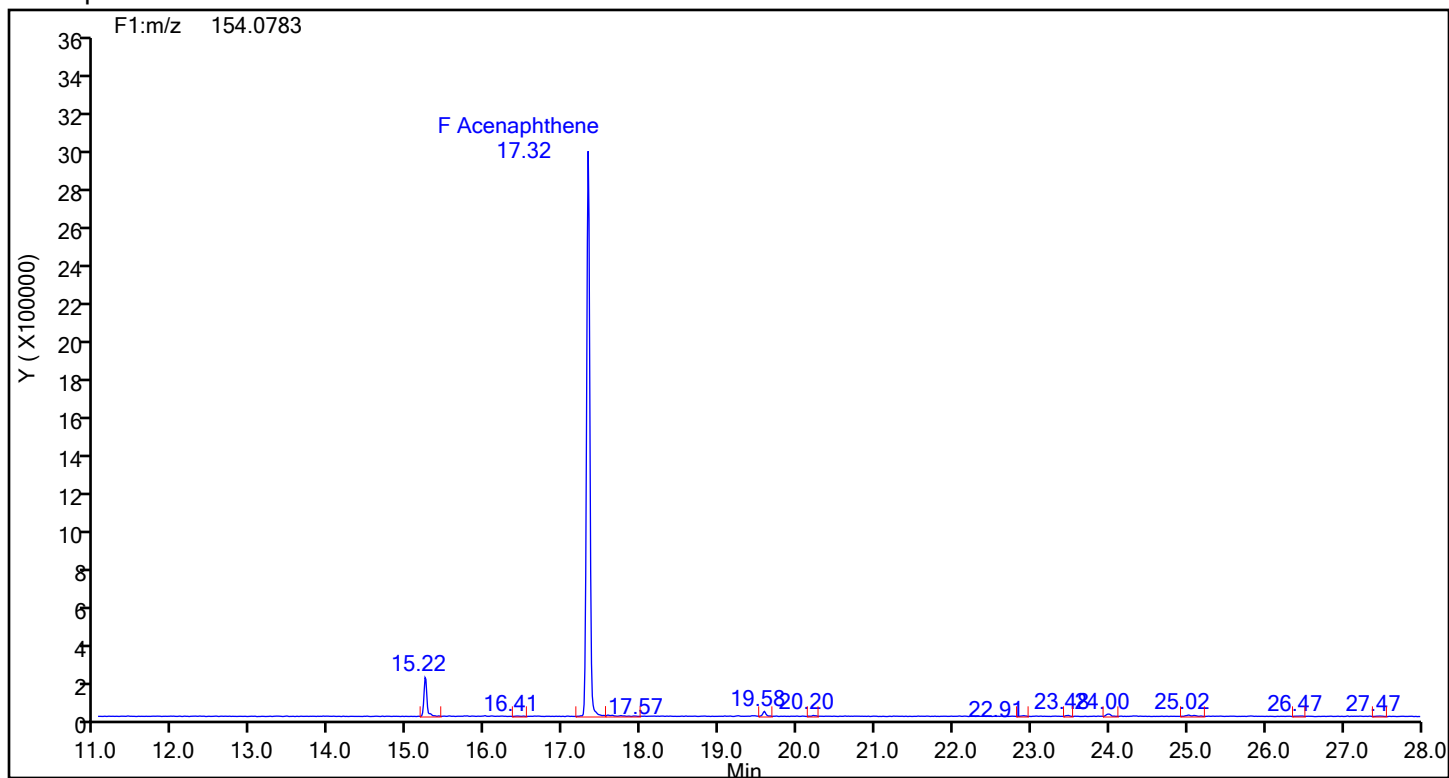
Worklist#: 88920

Sample Line#: 2

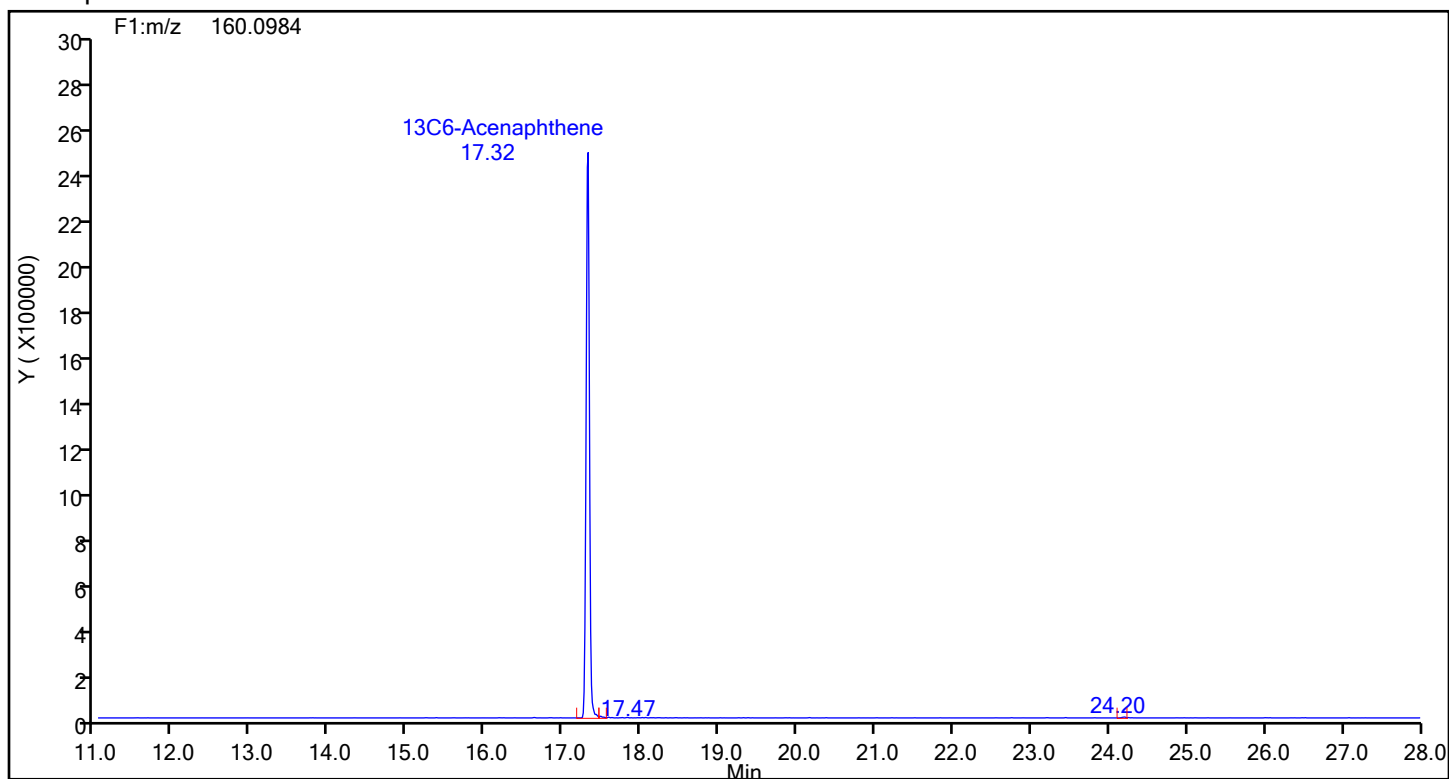
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



Acenaphthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

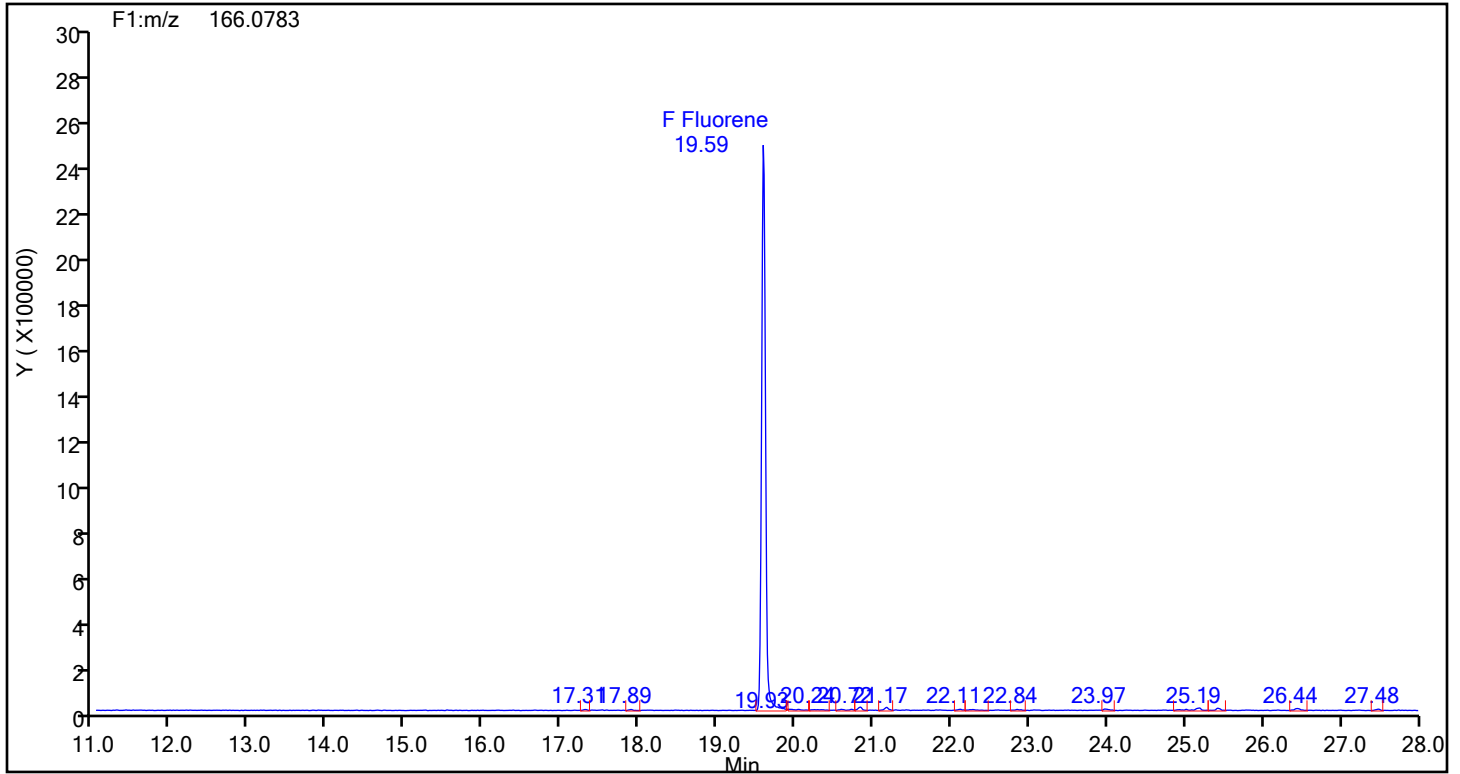
Worklist#: 88920

Sample Line#: 2

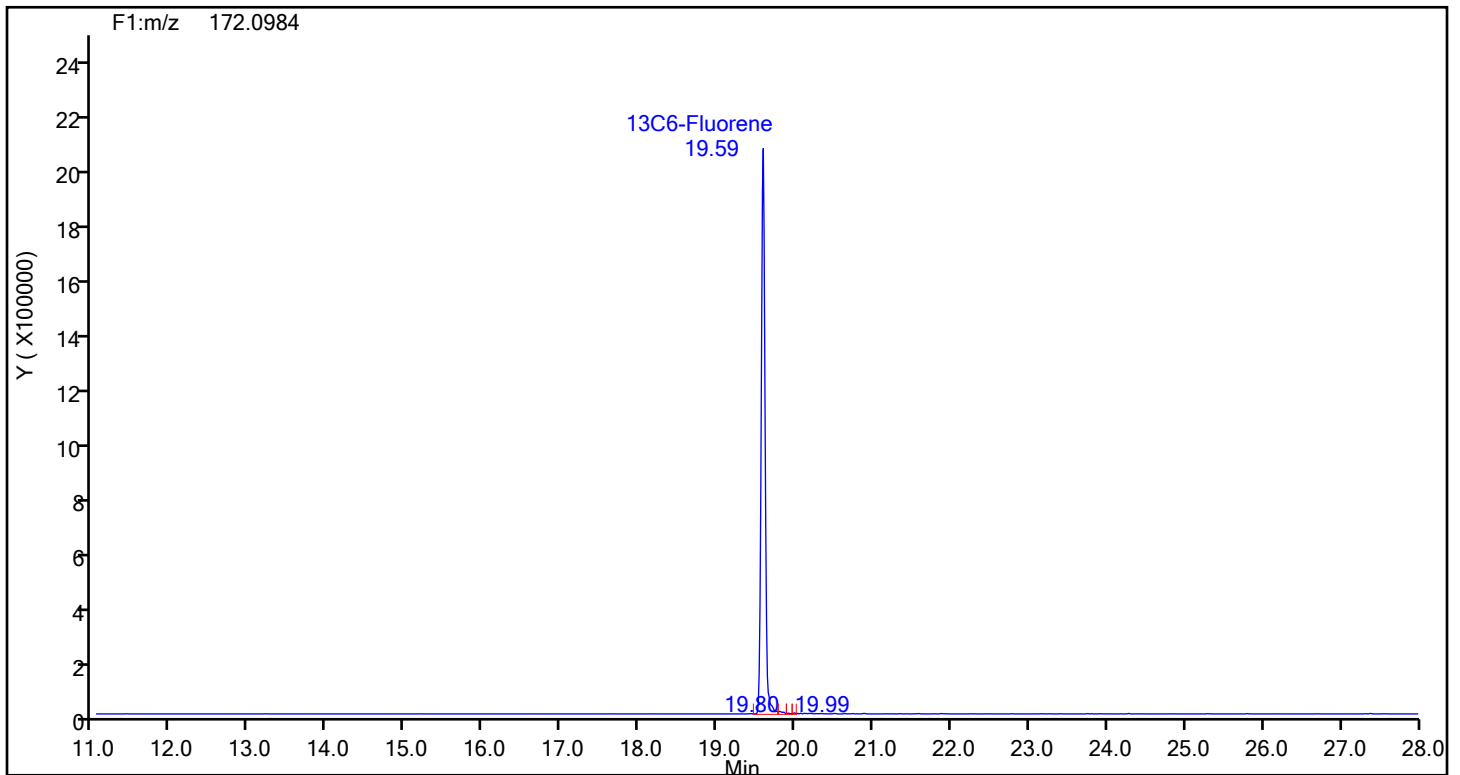
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluorene



Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

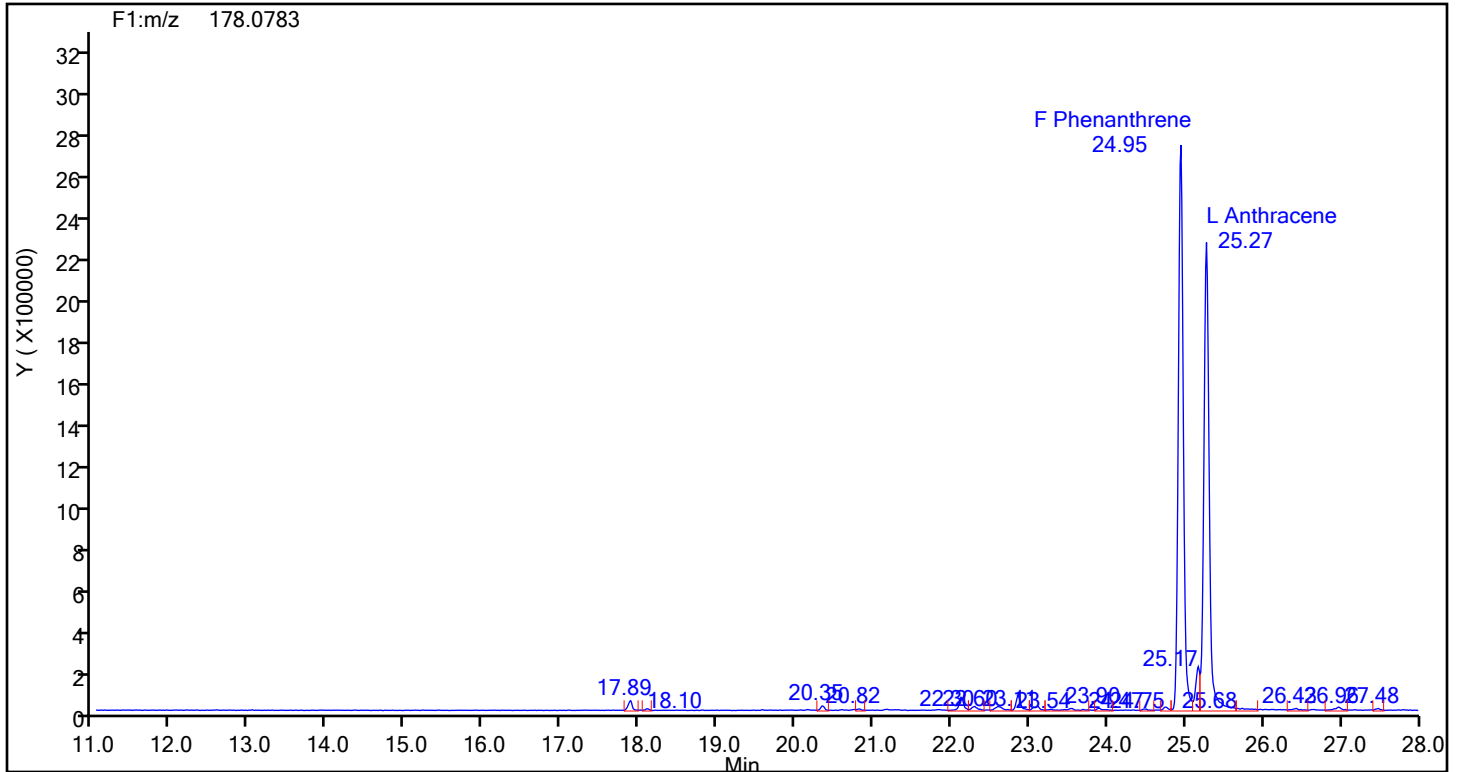
Worklist#: 88920

Sample Line#: 2

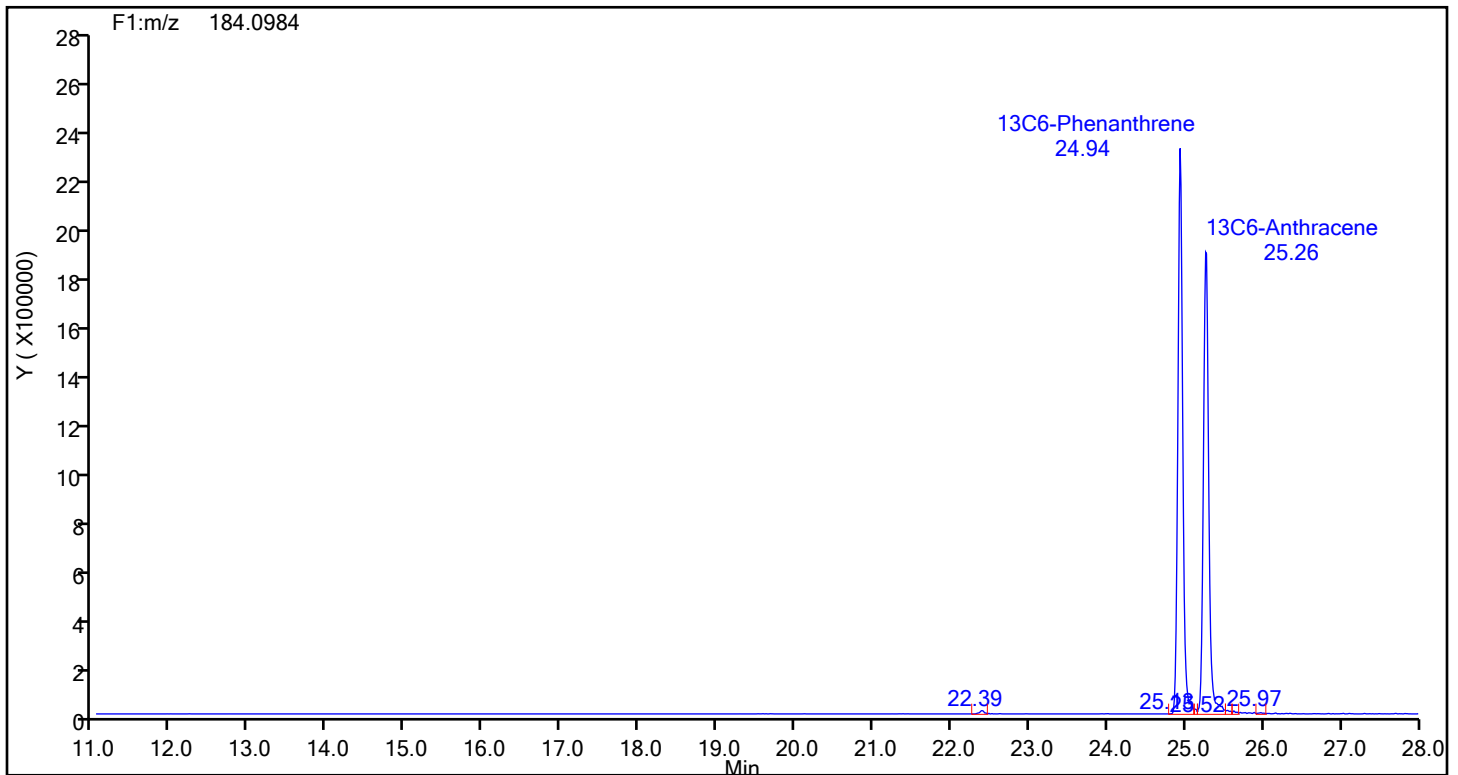
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene

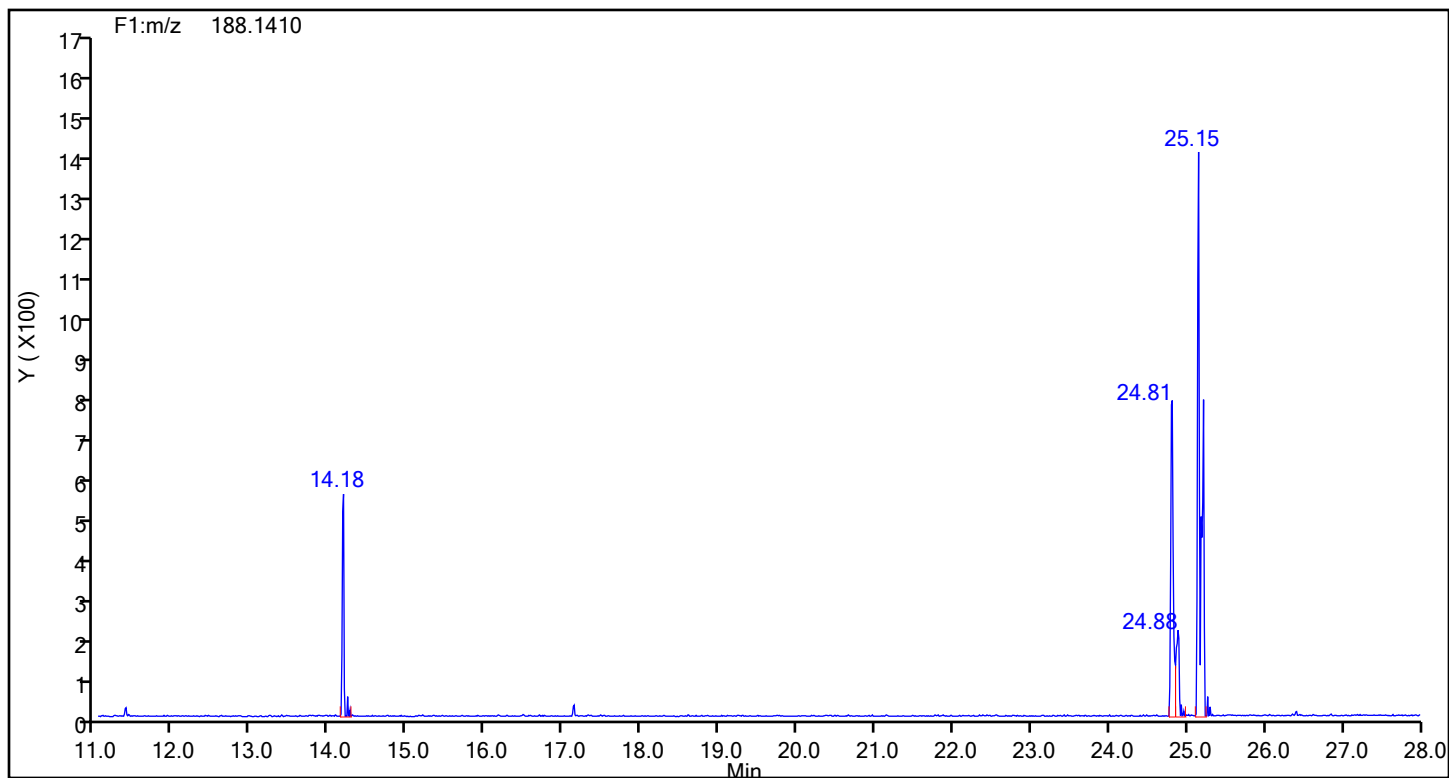


Phenanthrene Standards

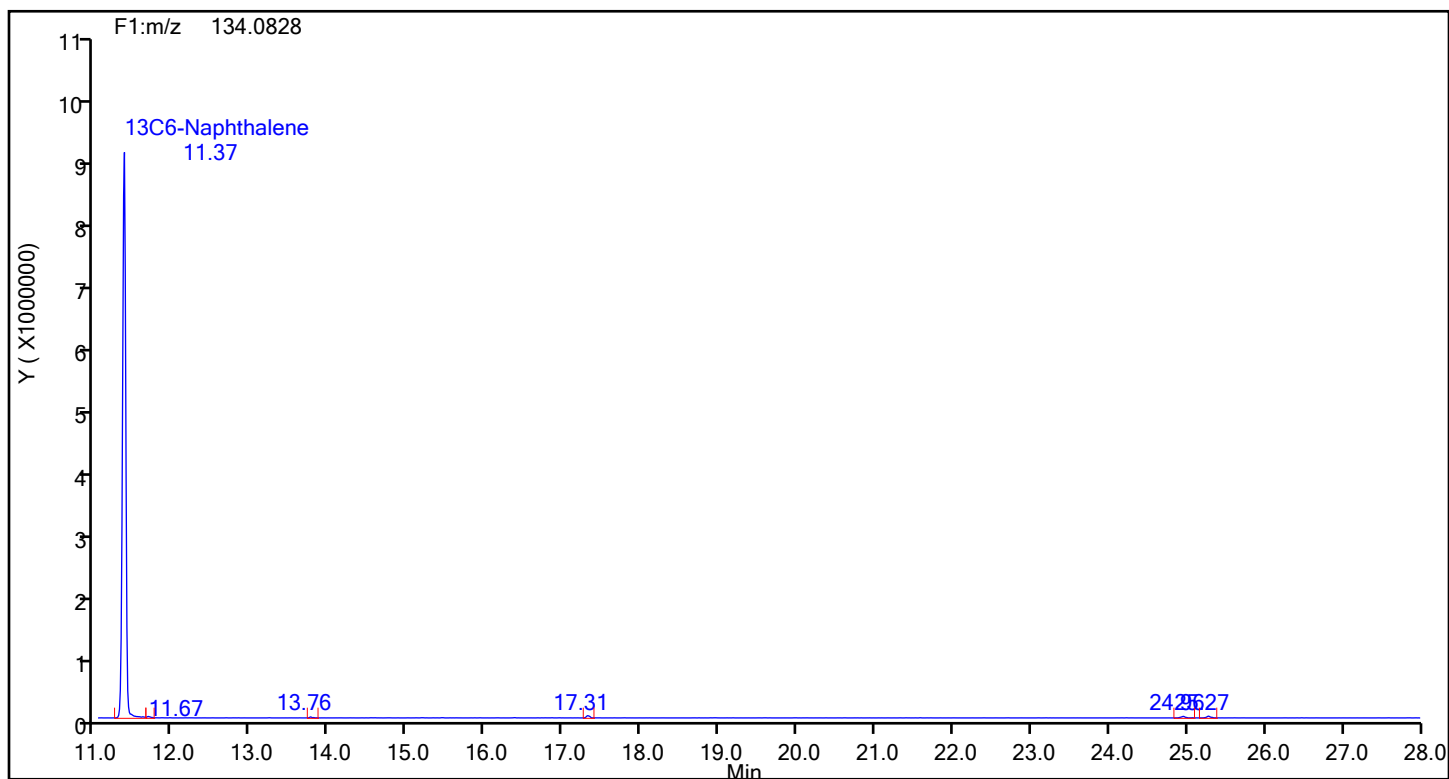


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d
Injection Date: 18-Jul-2024 12:24:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 2
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10



Anthracin-d10 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

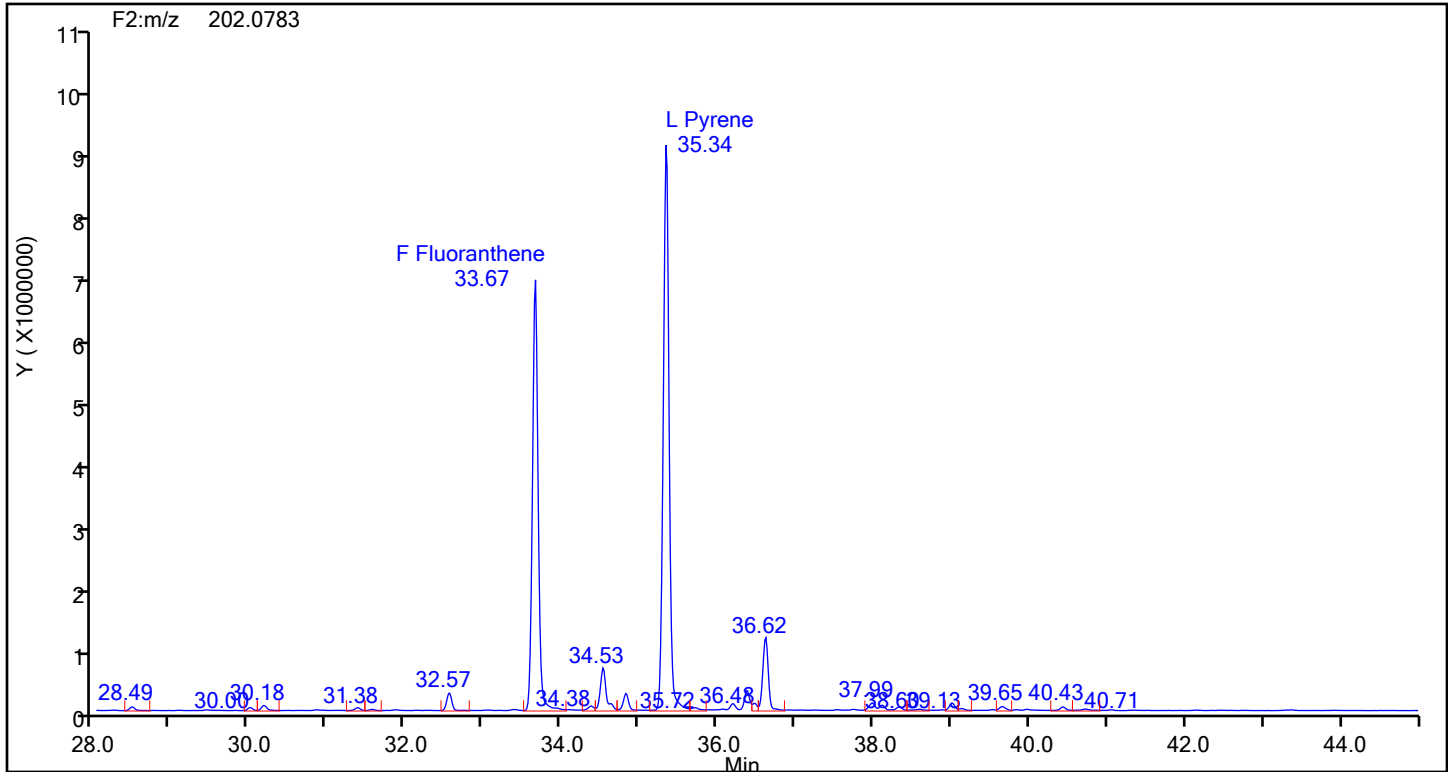
Worklist#: 88920

Sample Line#: 2

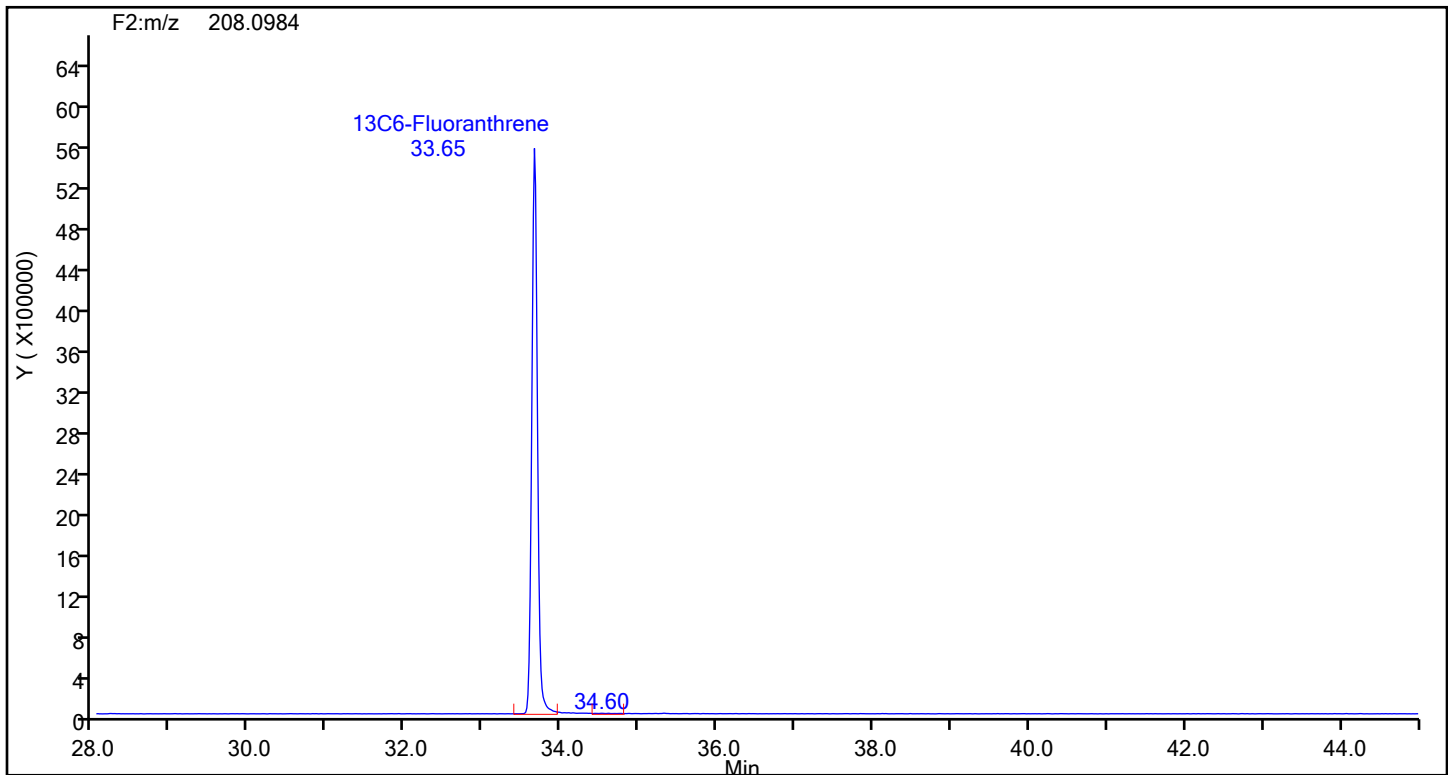
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Fluoranthene



Fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

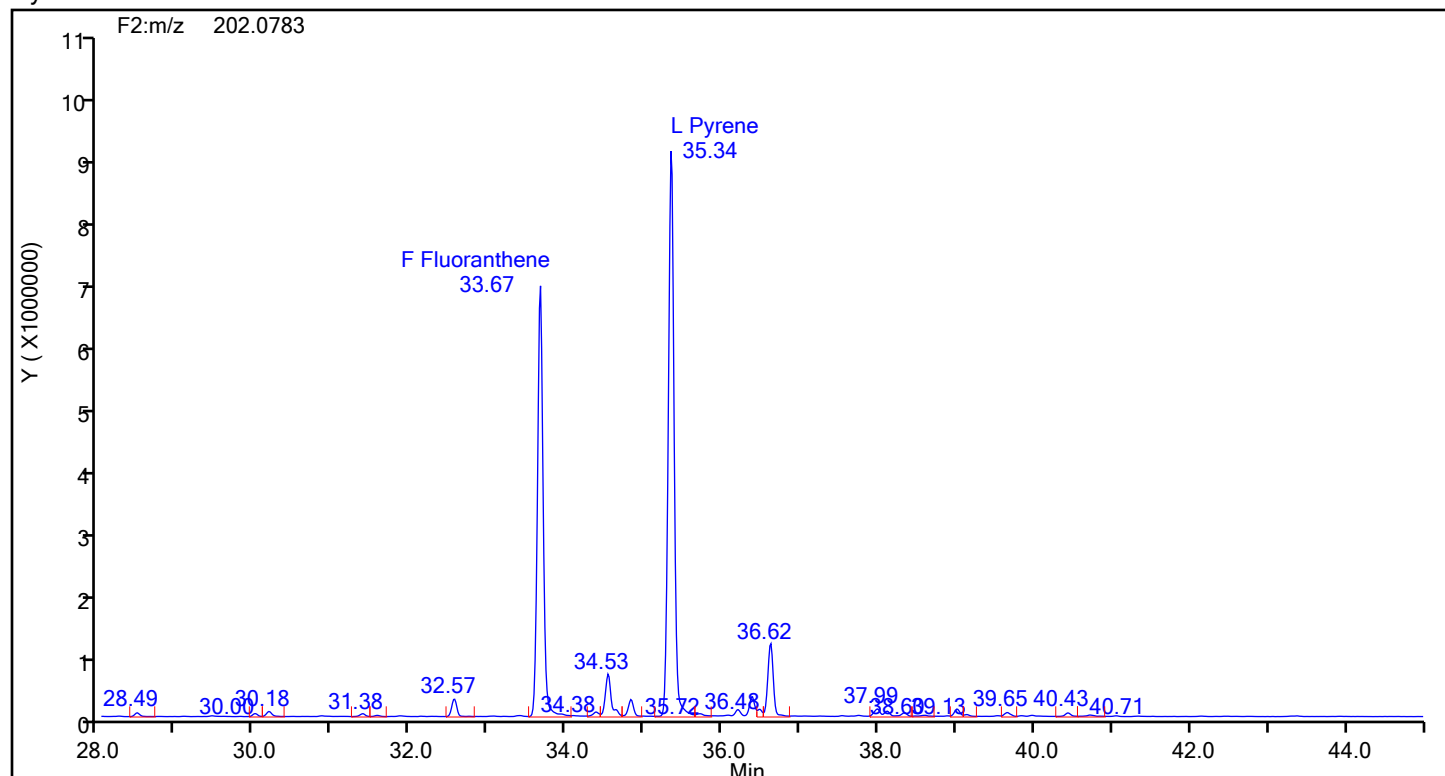
Worklist#: 88920

Sample Line#: 2

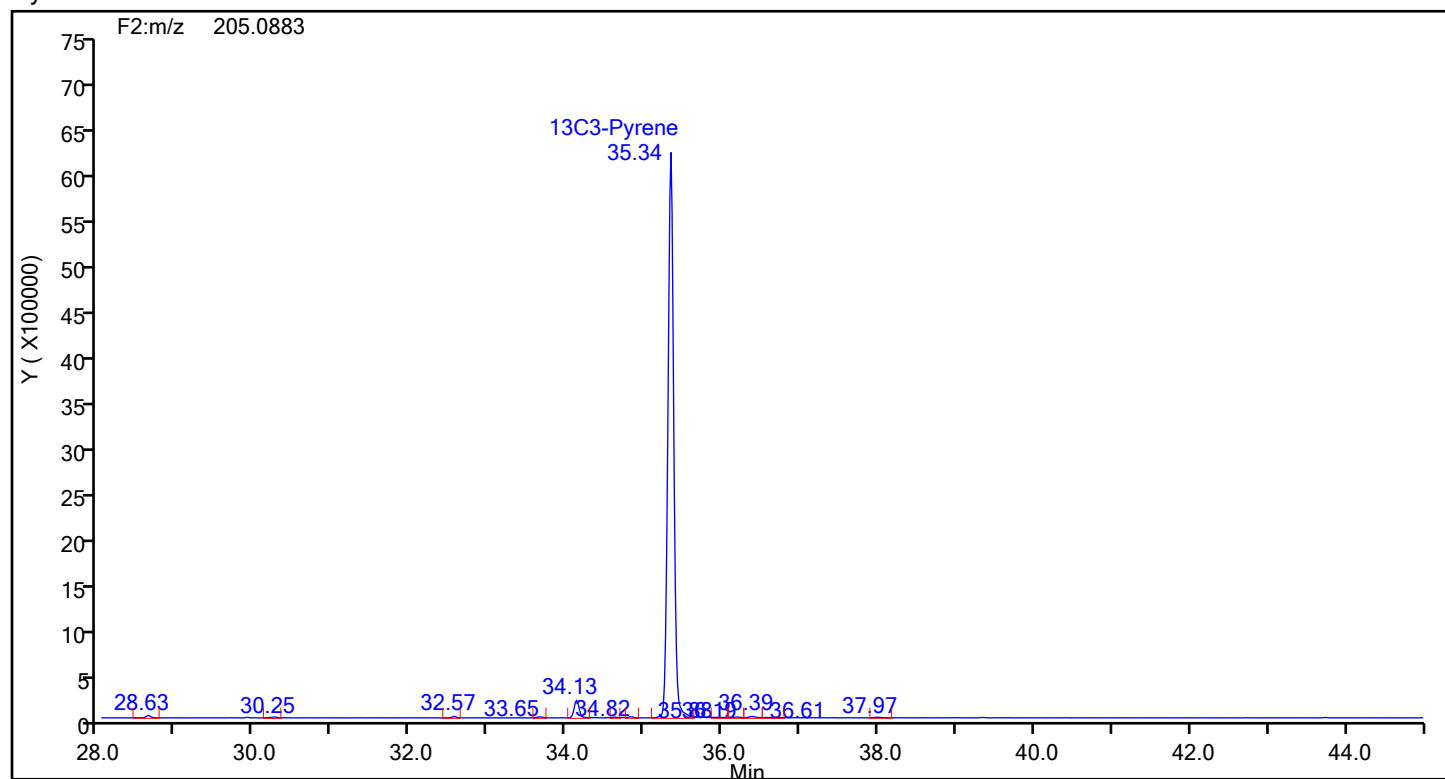
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Pyrene



Pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

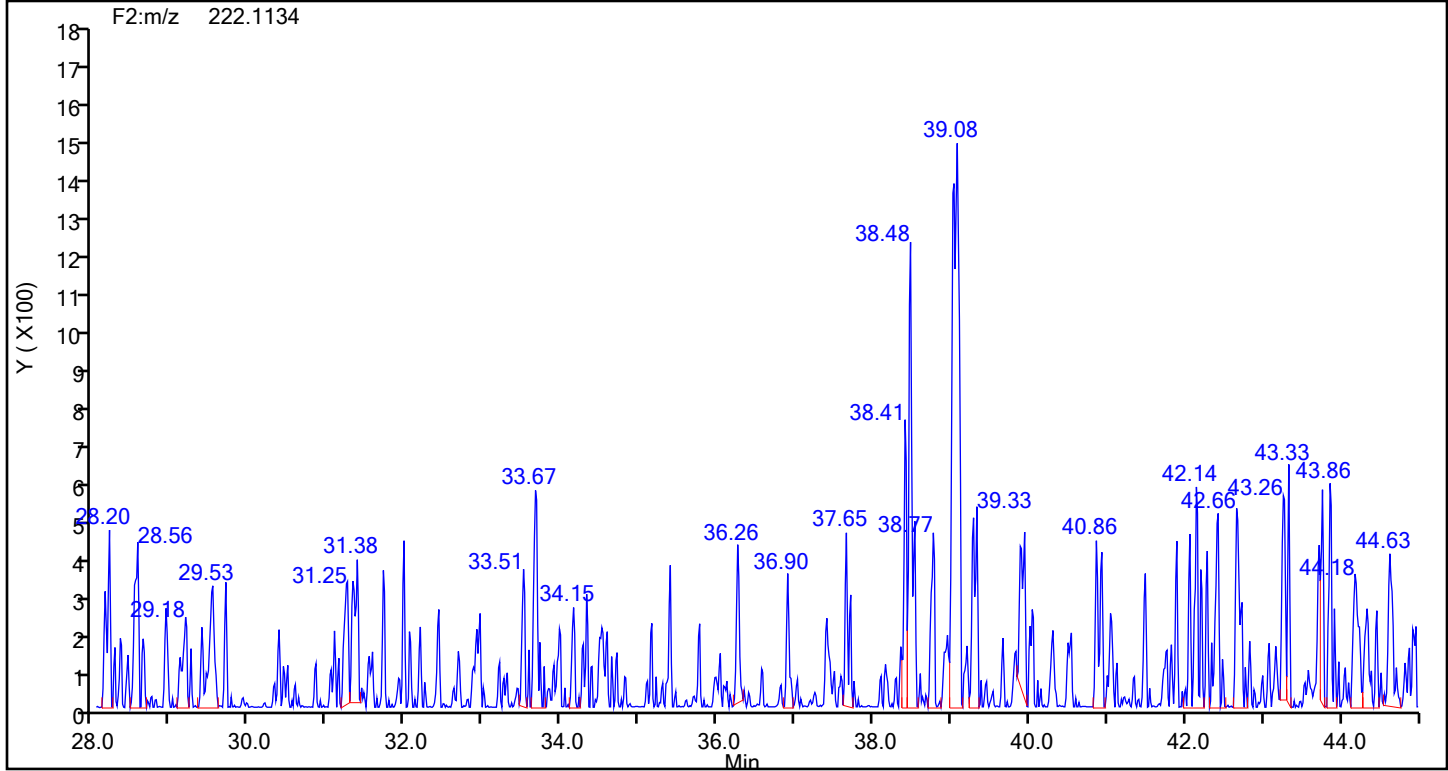
Worklist#: 88920

Sample Line#: 2

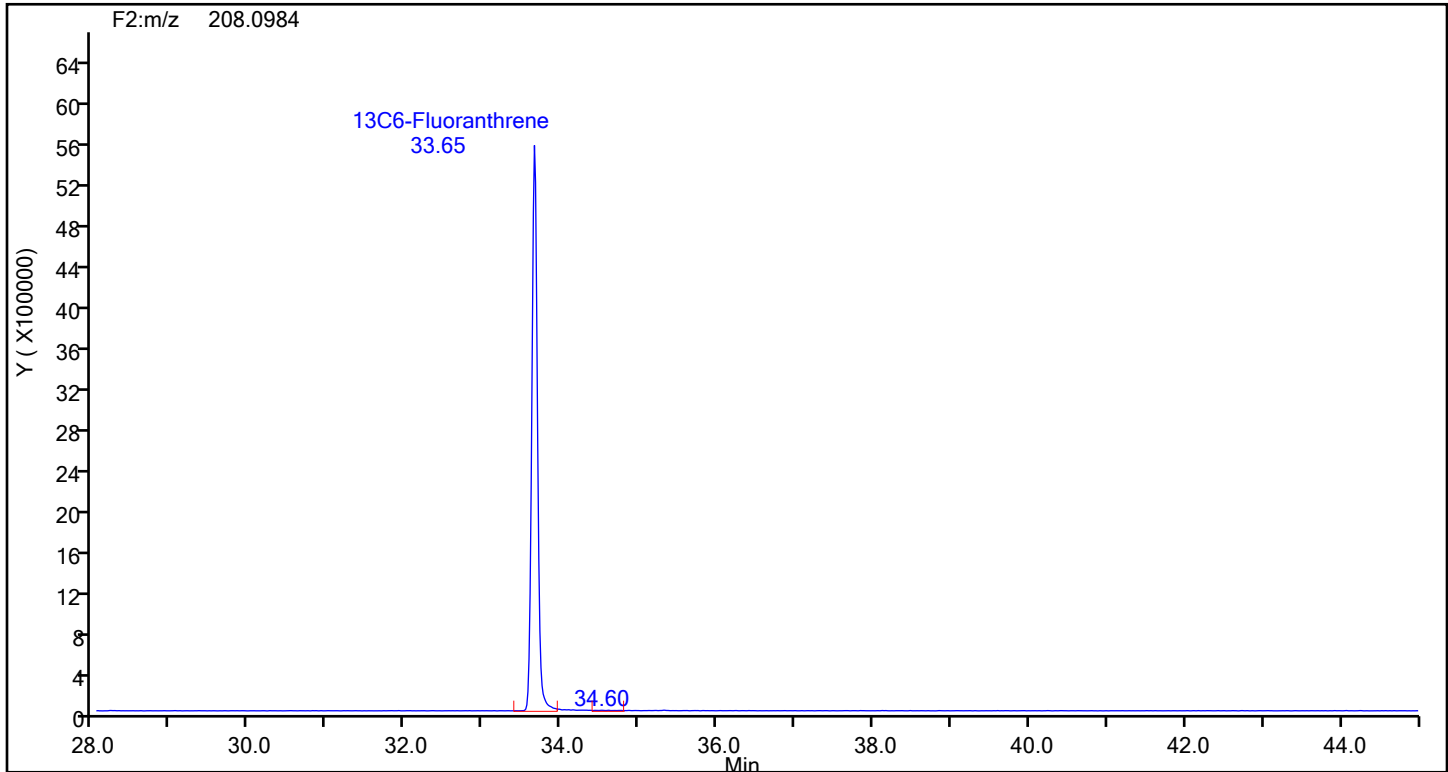
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

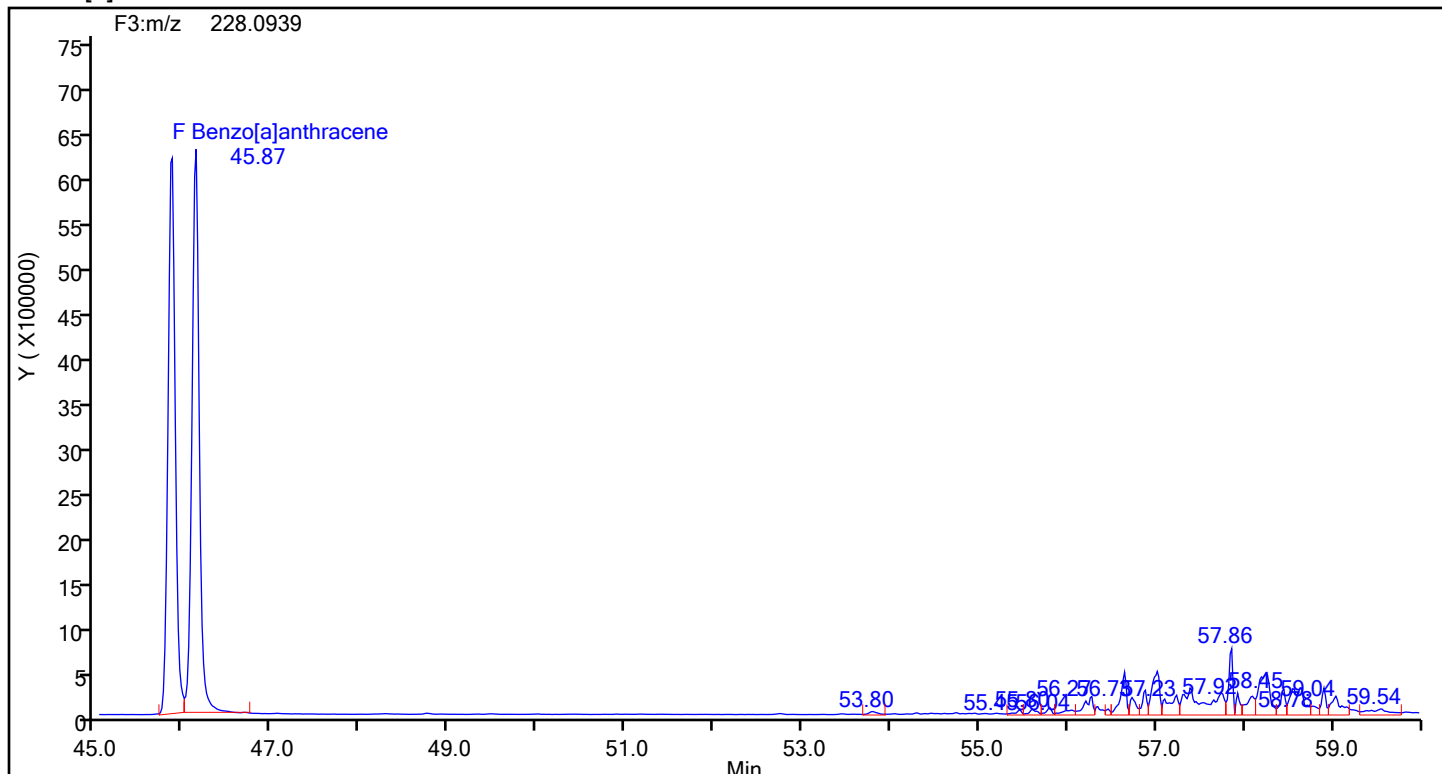
Worklist#: 88920

Sample Line#: 2

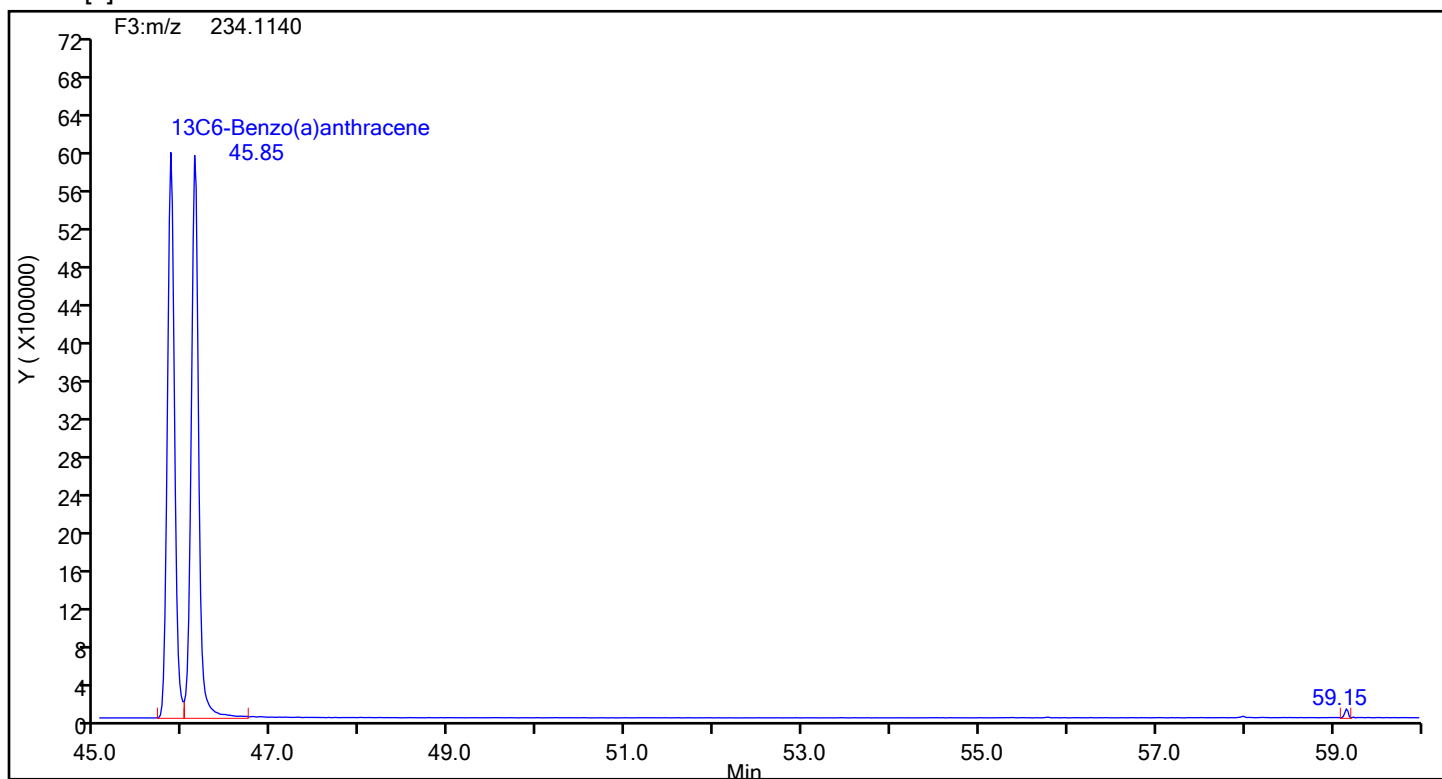
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



Benzo[a]anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

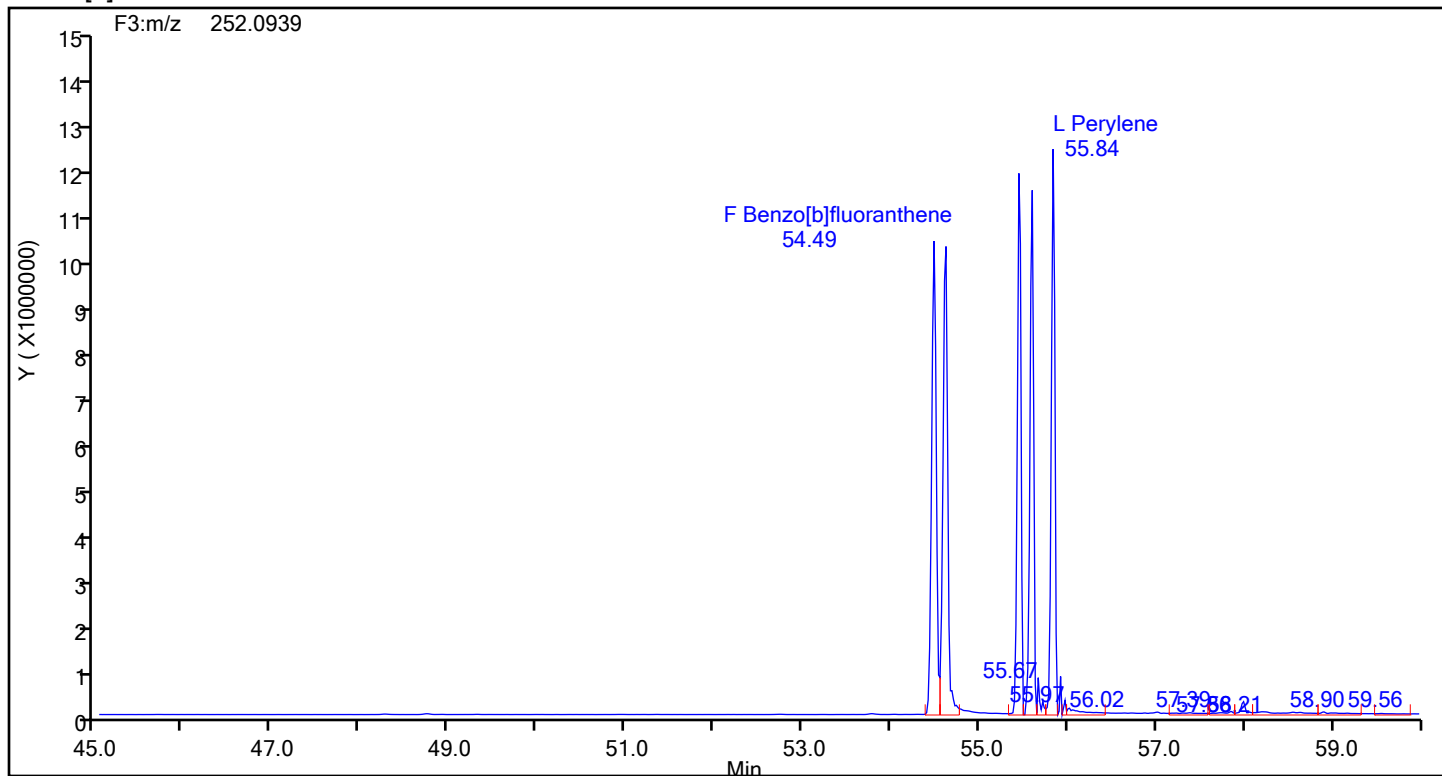
Worklist#: 88920

Sample Line#: 2

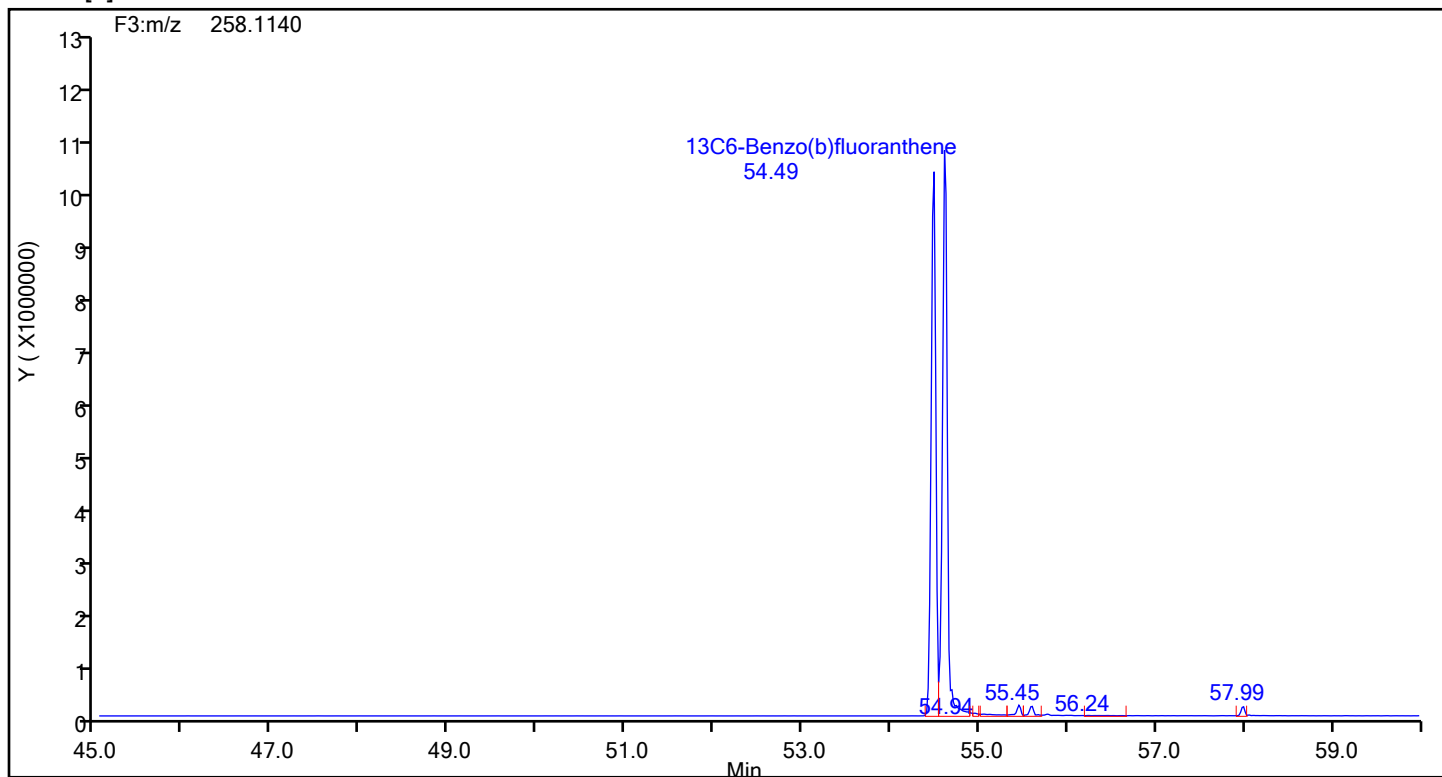
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[b]fluoranthene



Benzo[b]fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

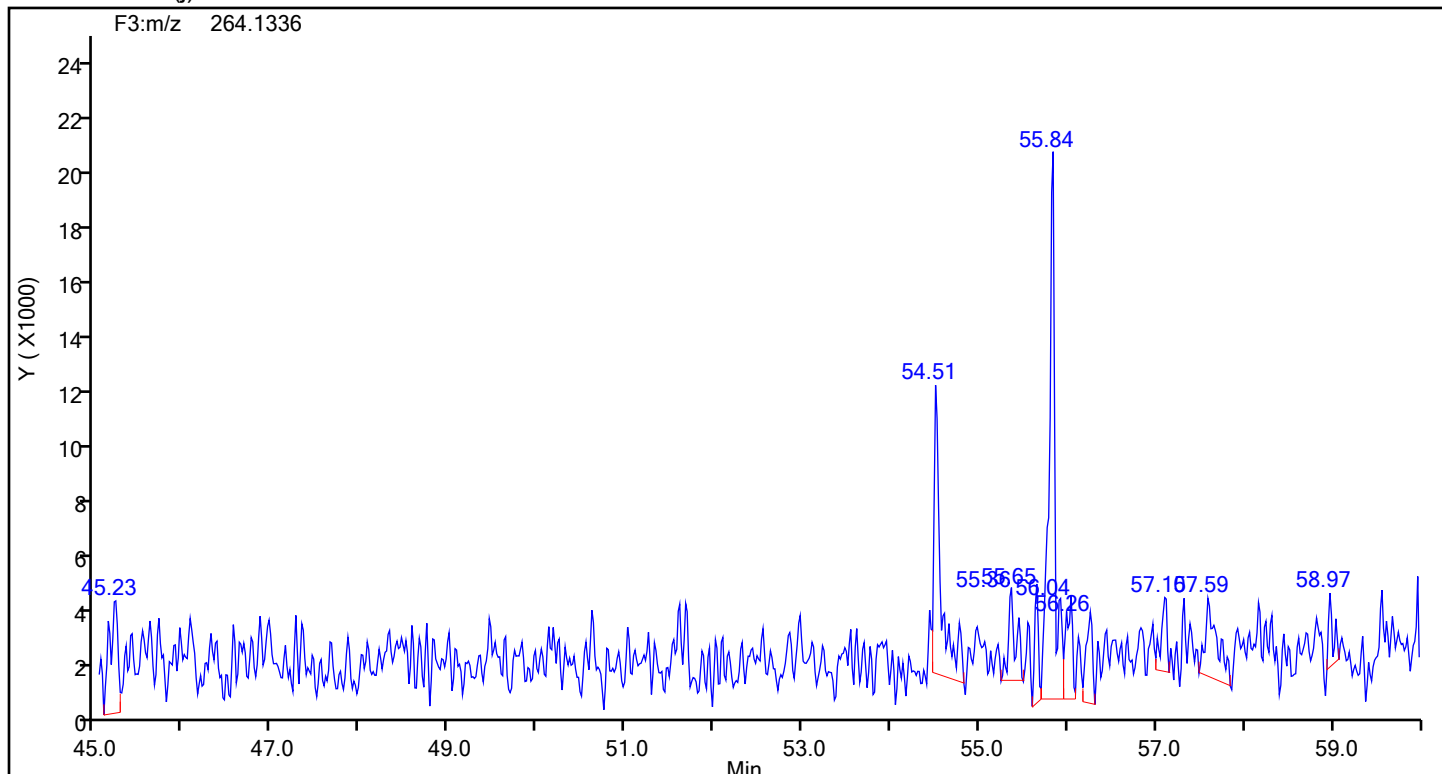
Worklist#: 88920

Sample Line#: 2

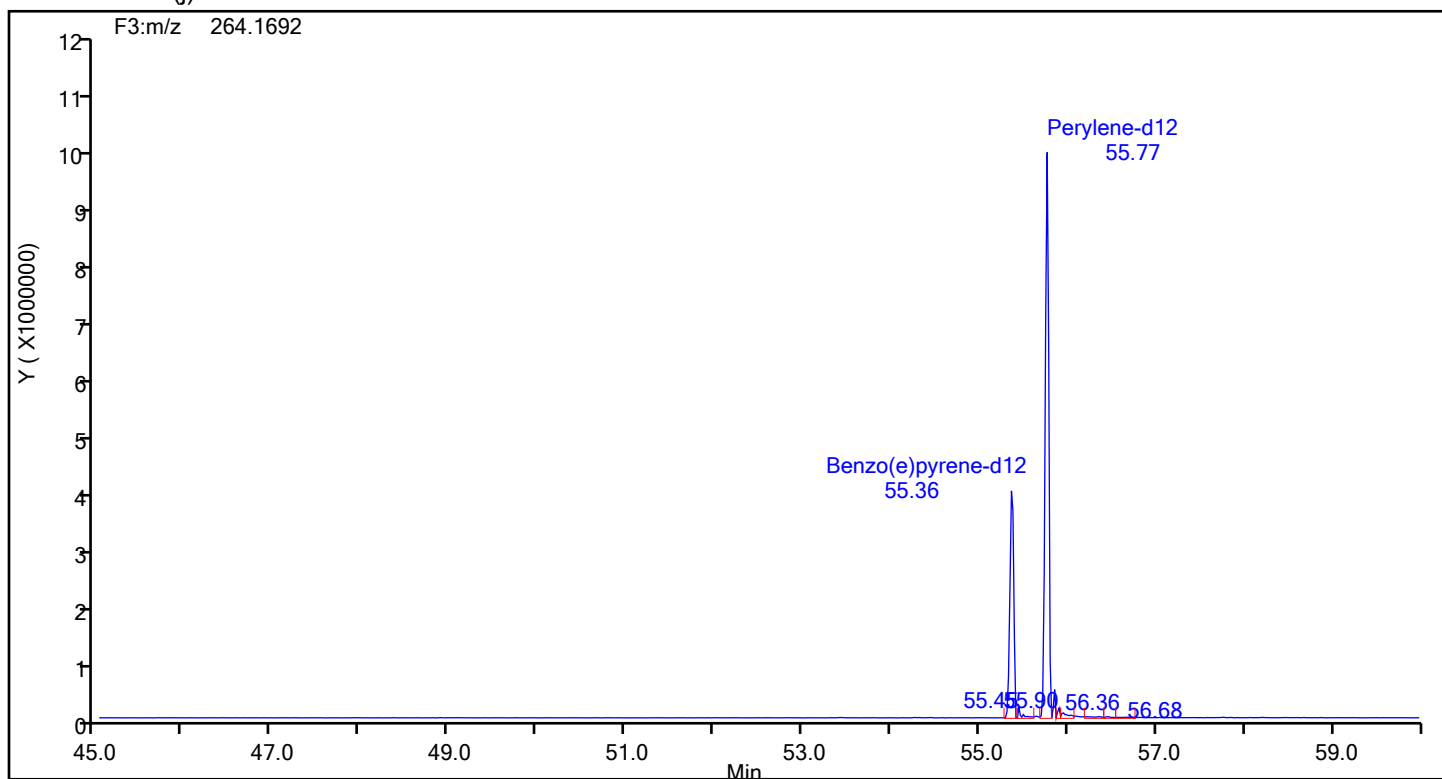
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

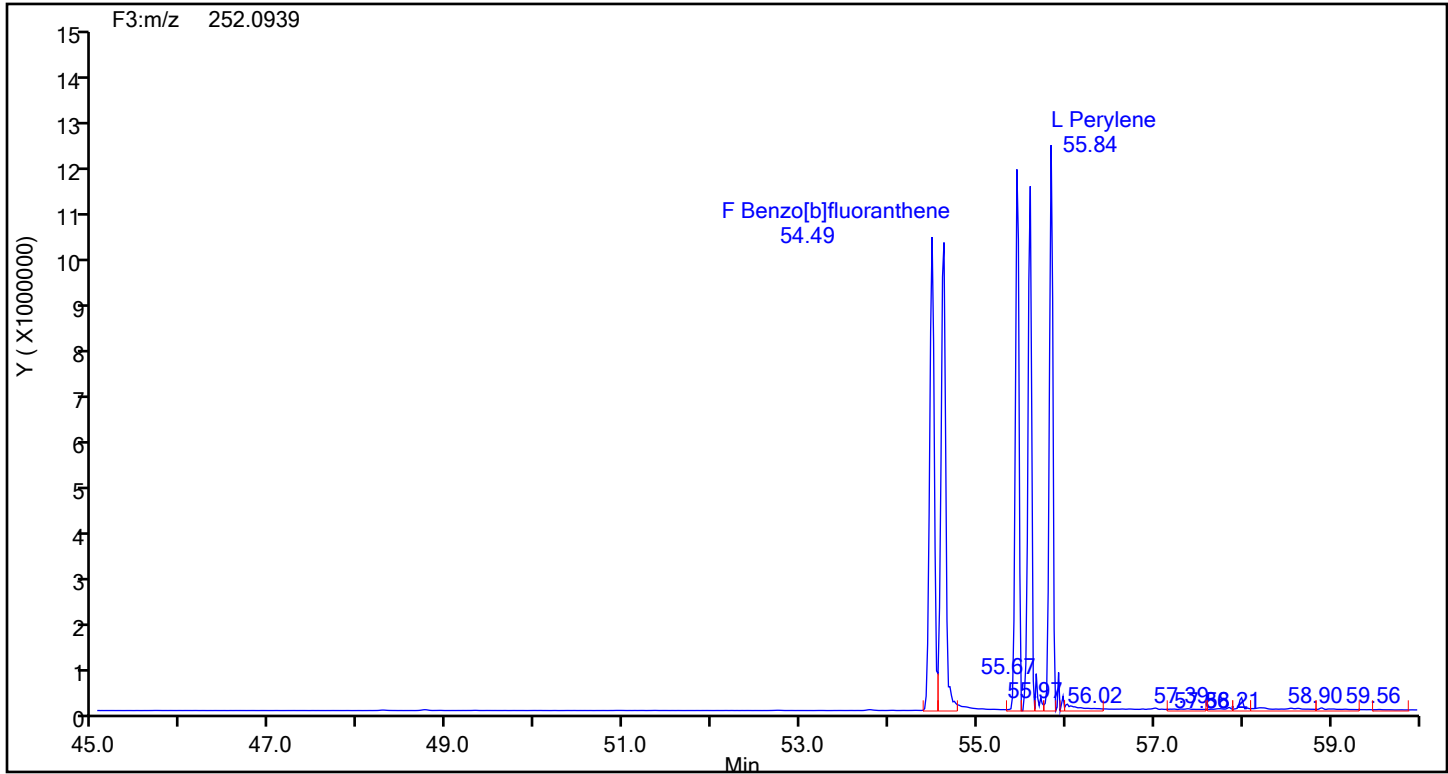
Worklist#: 88920

Sample Line#: 2

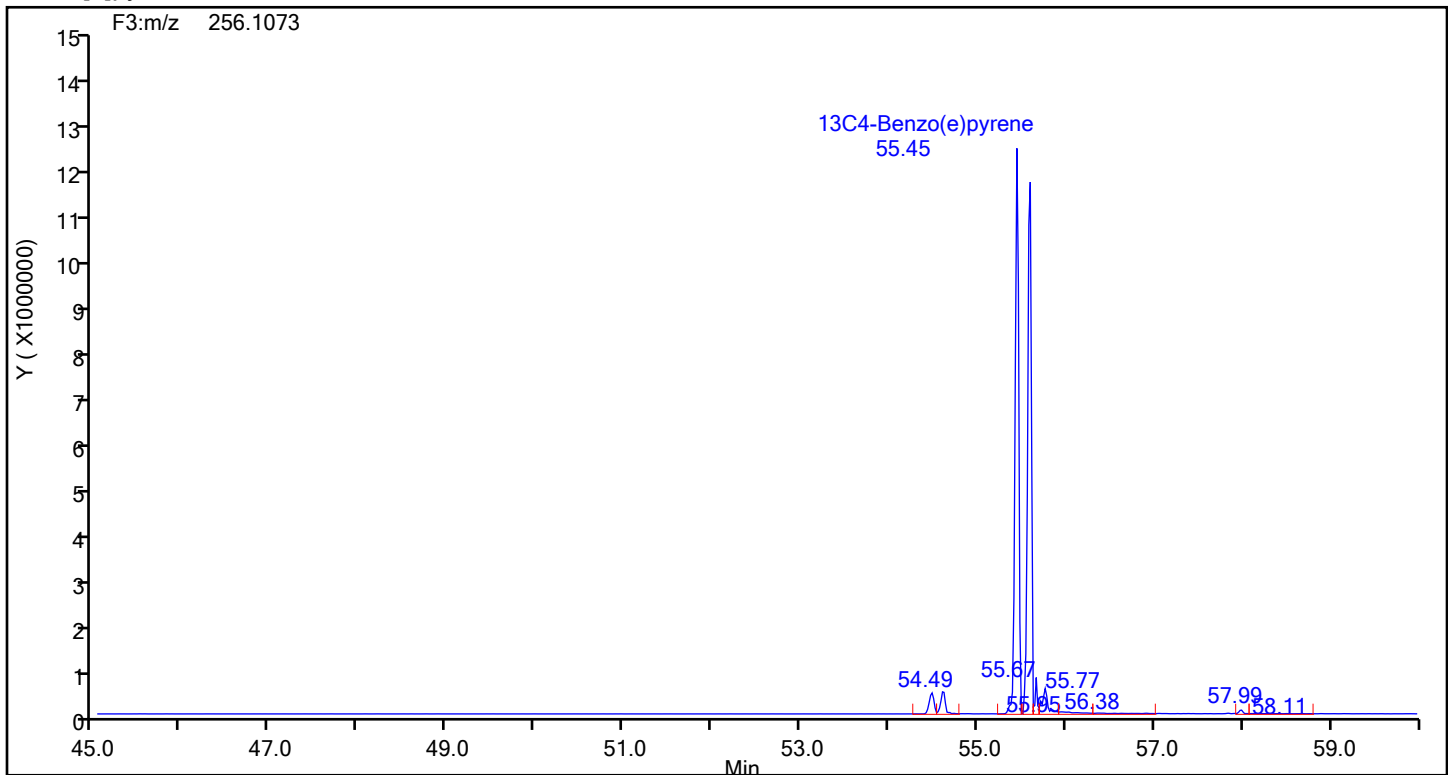
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[e]pyrene



Benzo[e]pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

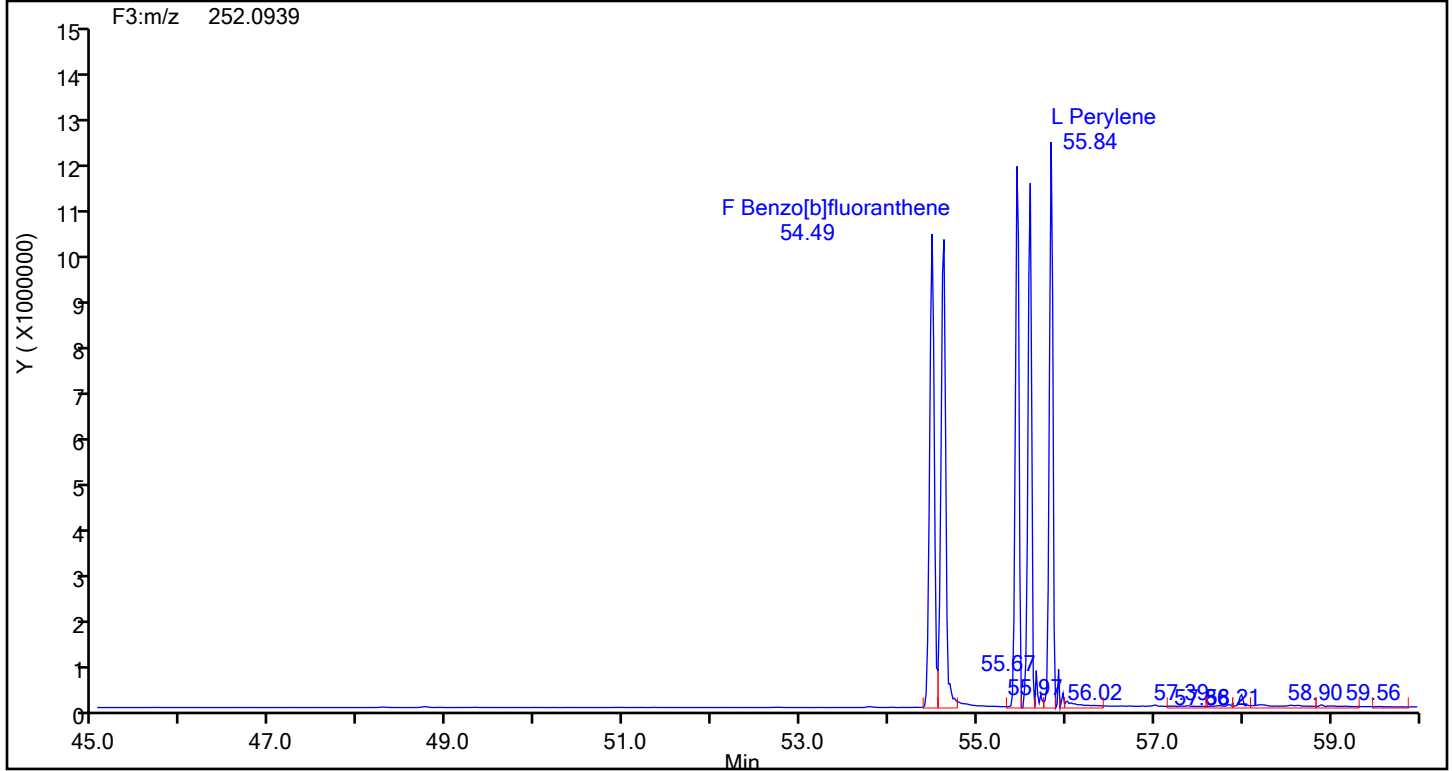
Worklist#: 88920

Sample Line#: 2

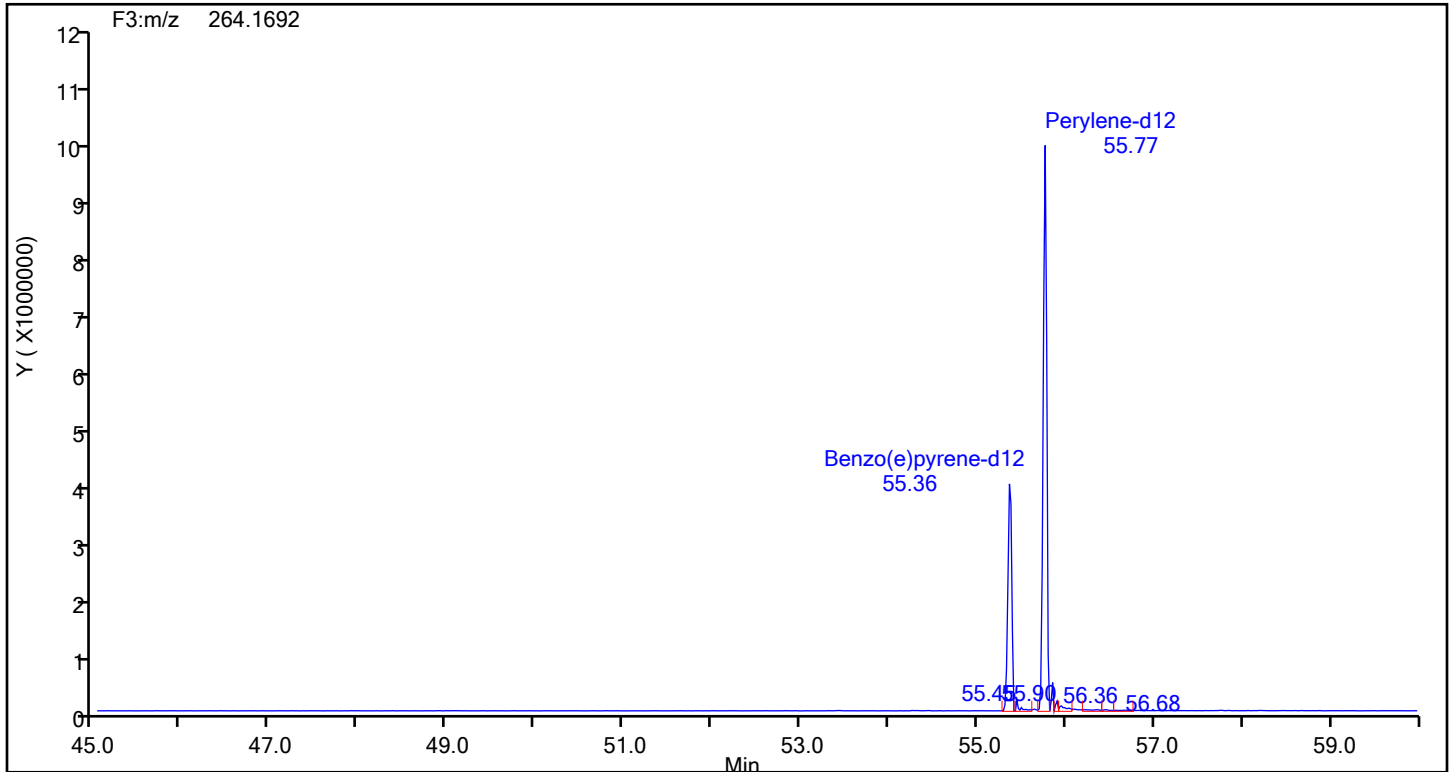
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Perylene



Perylene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

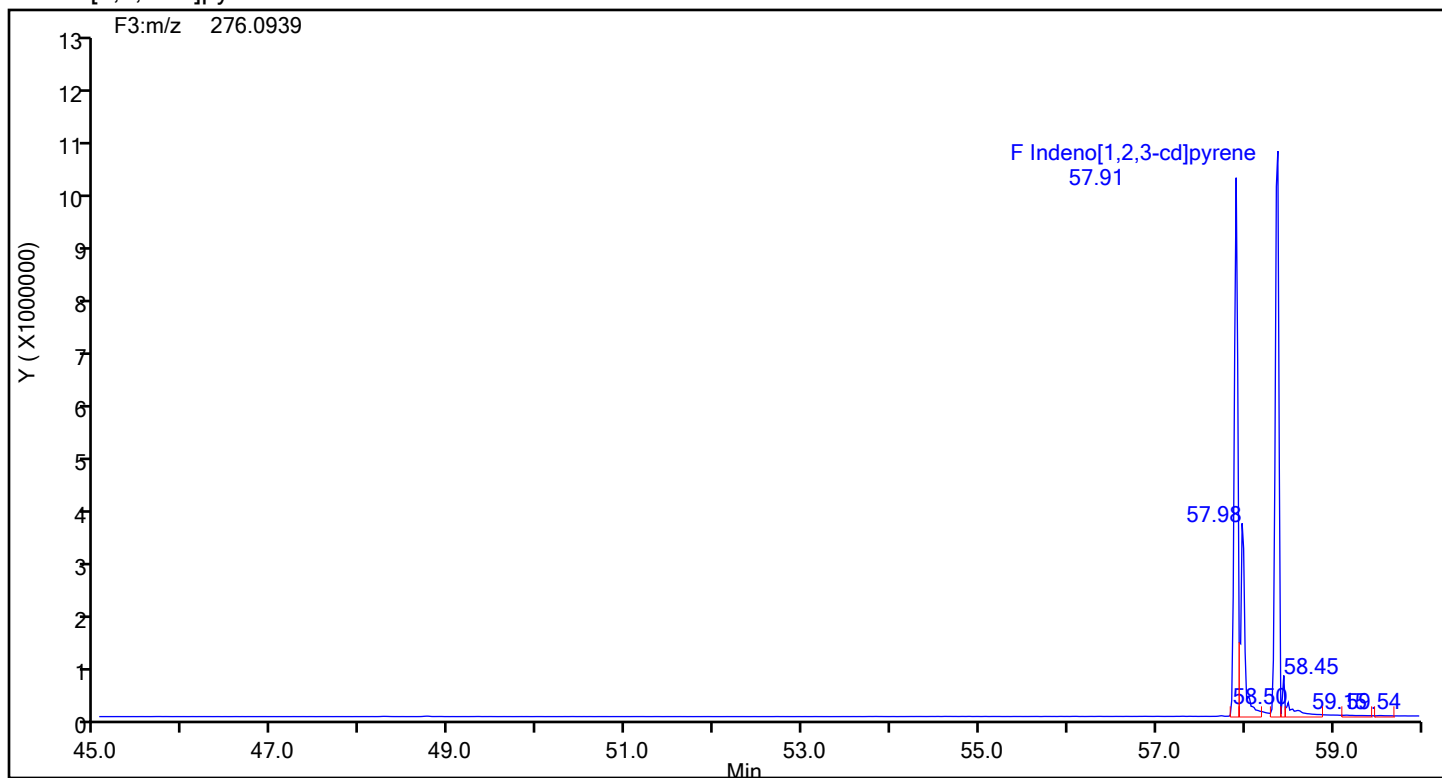
Worklist#: 88920

Sample Line#: 2

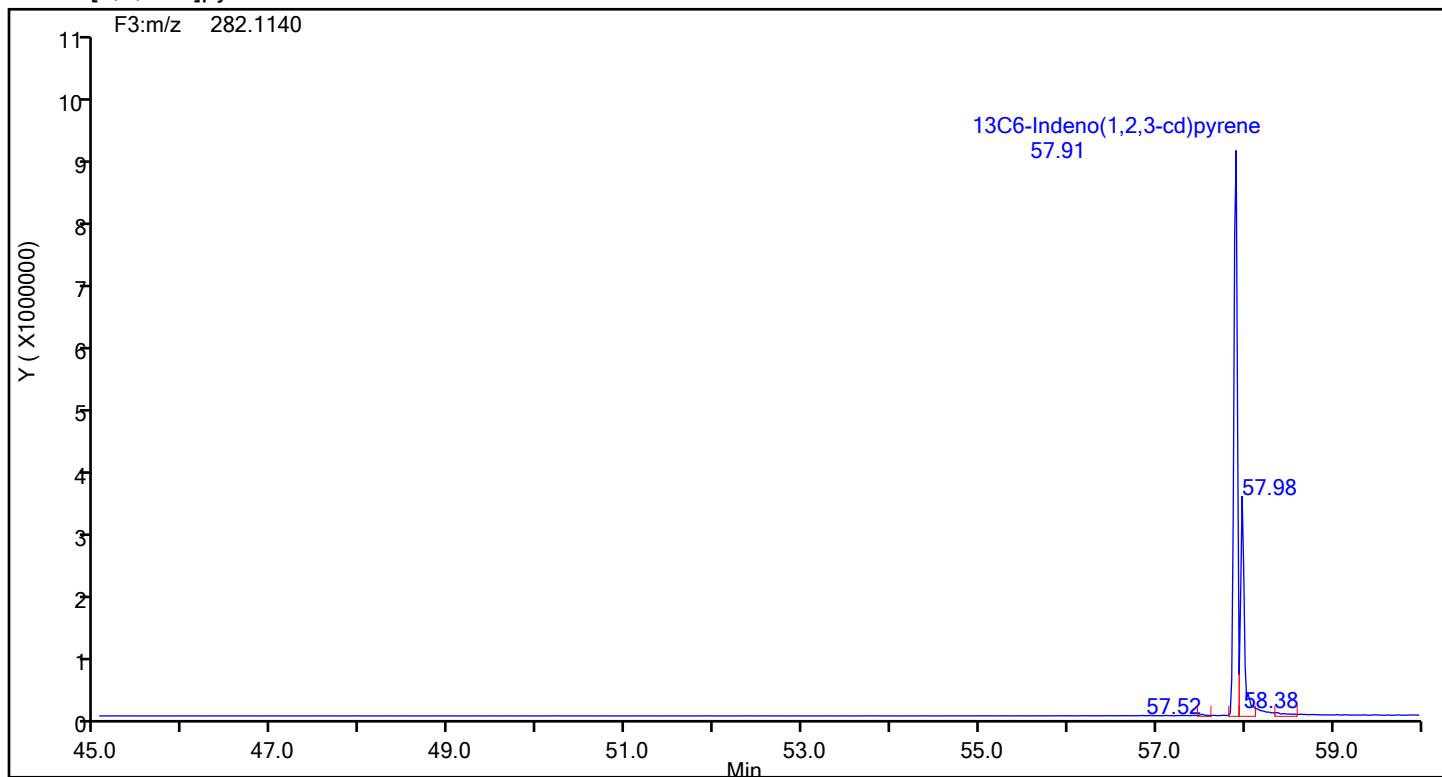
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



Eurofins Knoxville

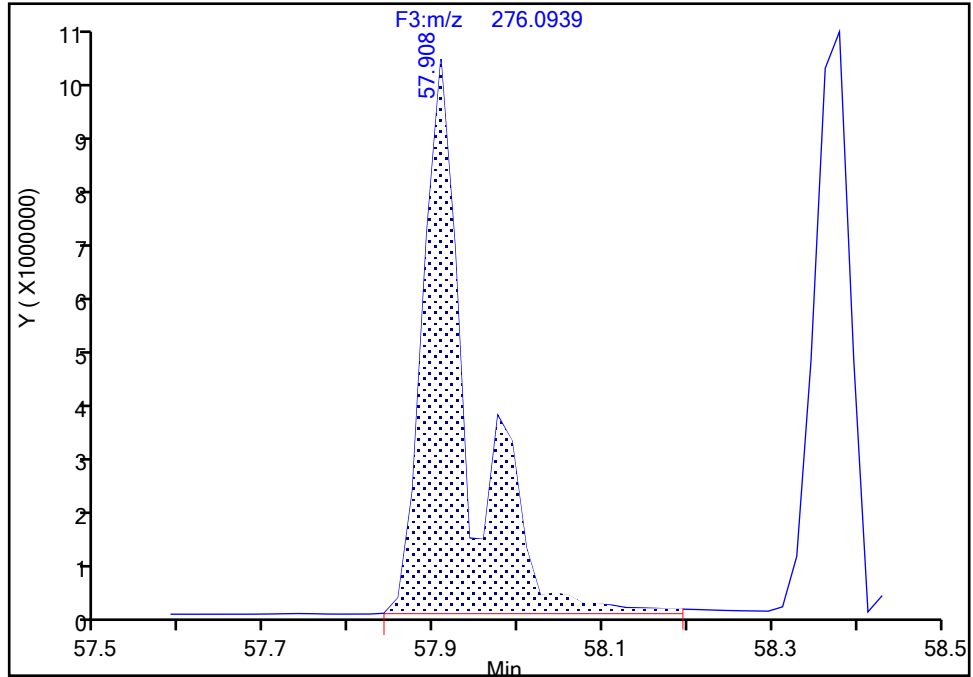
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d
Injection Date: 18-Jul-2024 12:24:00 Instrument ID: D3PAH
Lims ID: LCS 140-88192/19-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: EPA_23_PAH Limit Group: HR - HRP AH ICAL
Column: Restek-5Sil MS 25um (0.25 mm) Detector F3(44.04 :59.98)

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

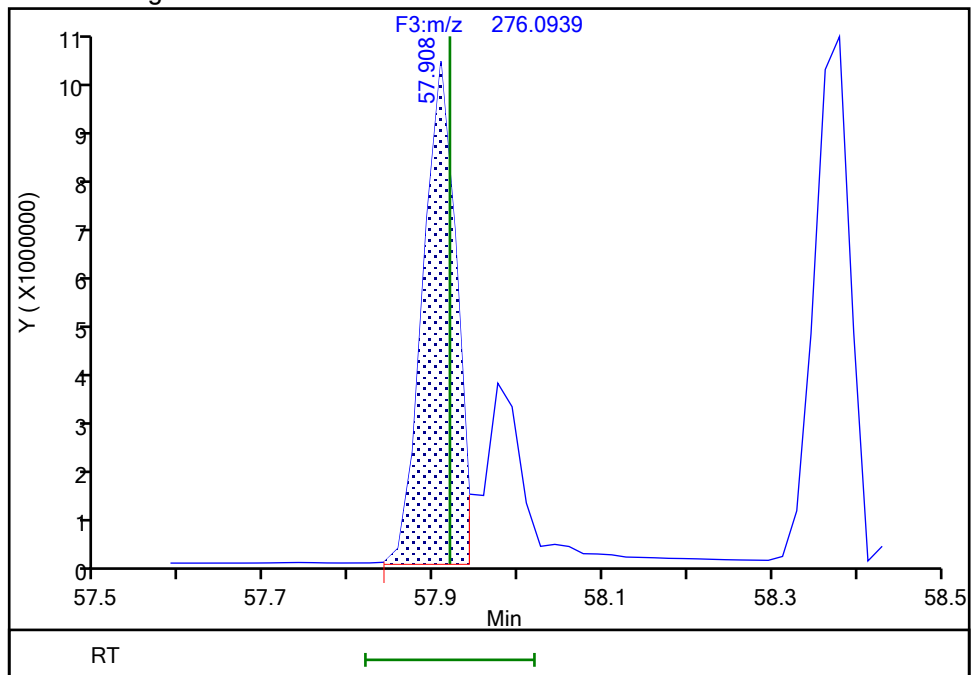
RT: 57.91
Area: 38742476
Amount: 139.5831
Amount Units: pg/ul

Processing Integration Results



RT: 57.91
Area: 27407024
Amount: 98.743239
Amount Units: pg/ul

Manual Integration Results



Reviewer: Q9DB, 18-Jul-2024 16:25:30 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

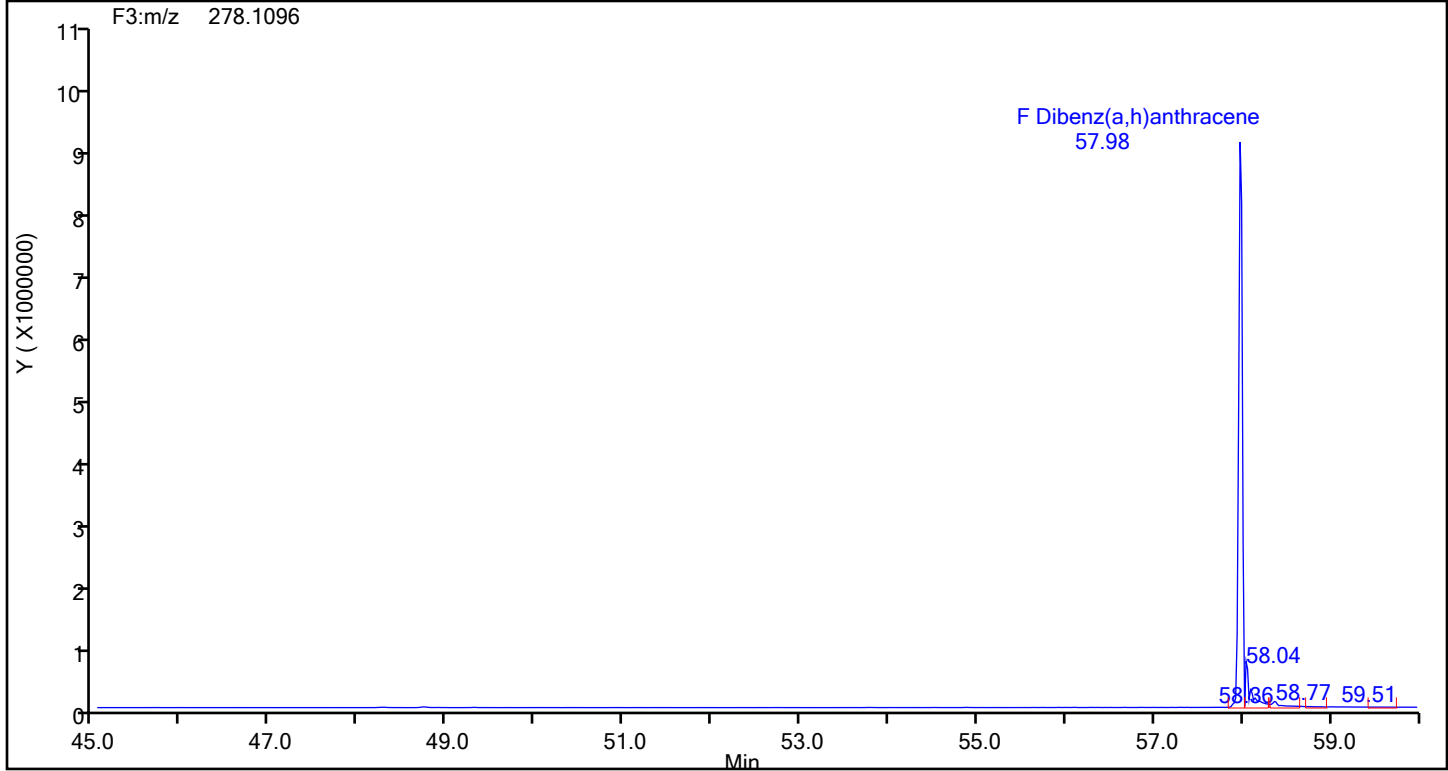
Worklist#: 88920

Sample Line#: 2

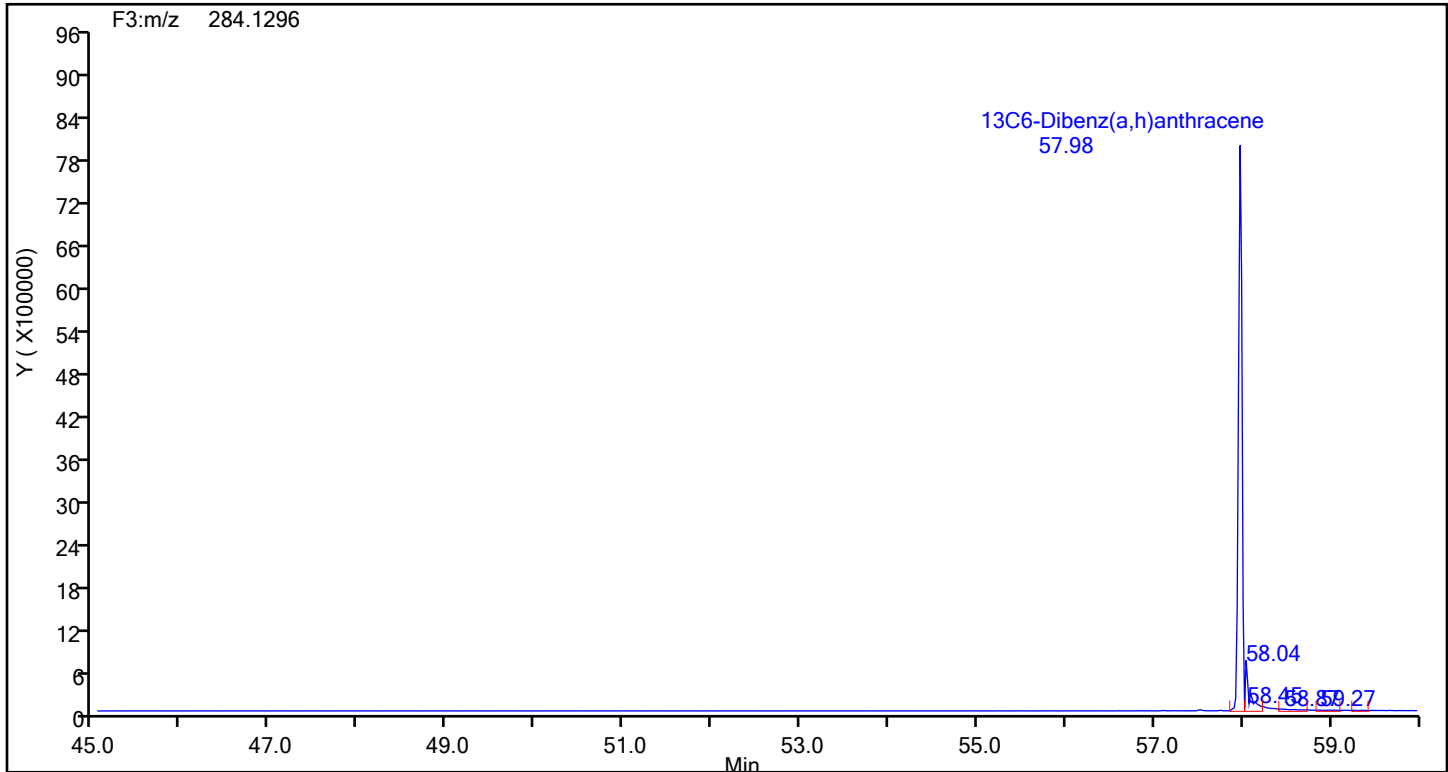
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcs140-8819219-b.d

Injection Date: 18-Jul-2024 12:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

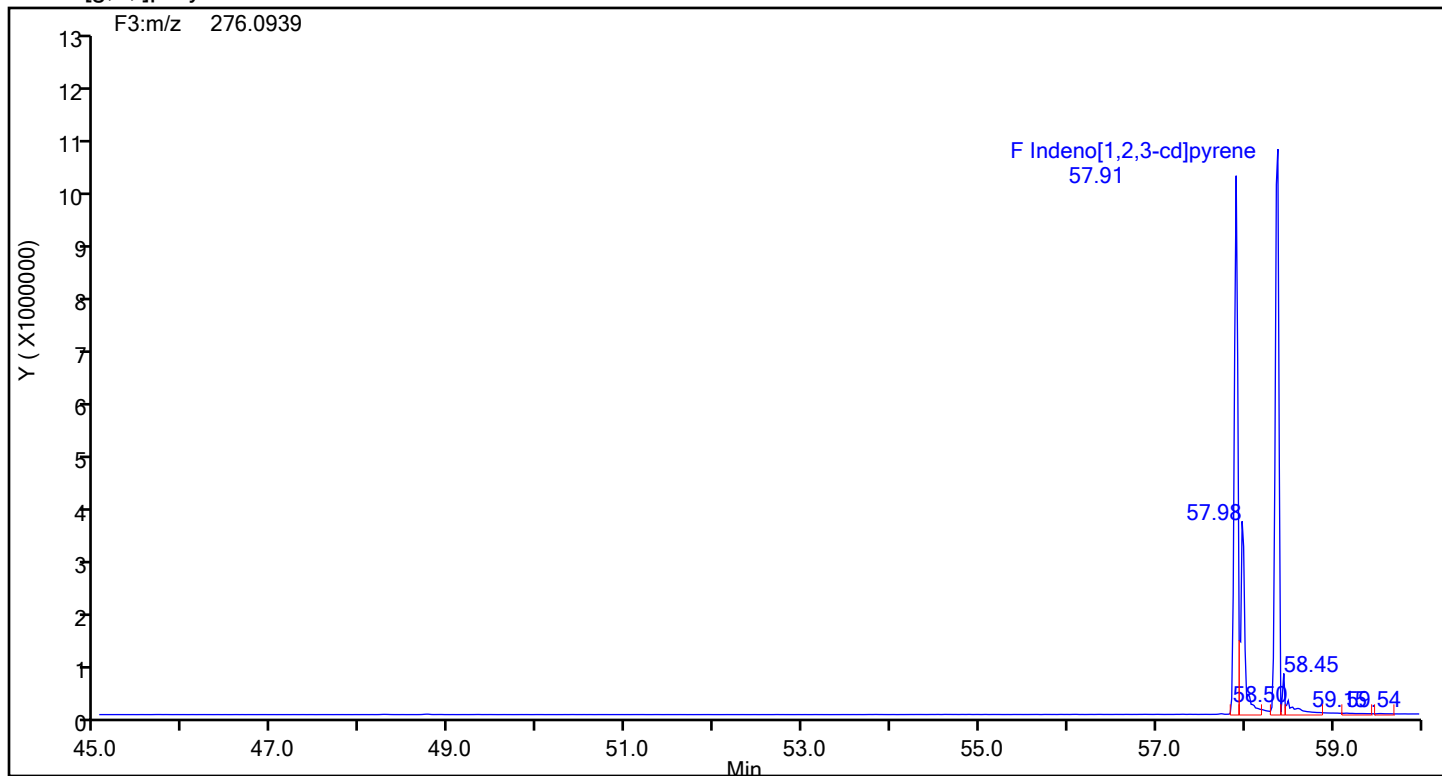
Worklist#: 88920

Sample Line#: 2

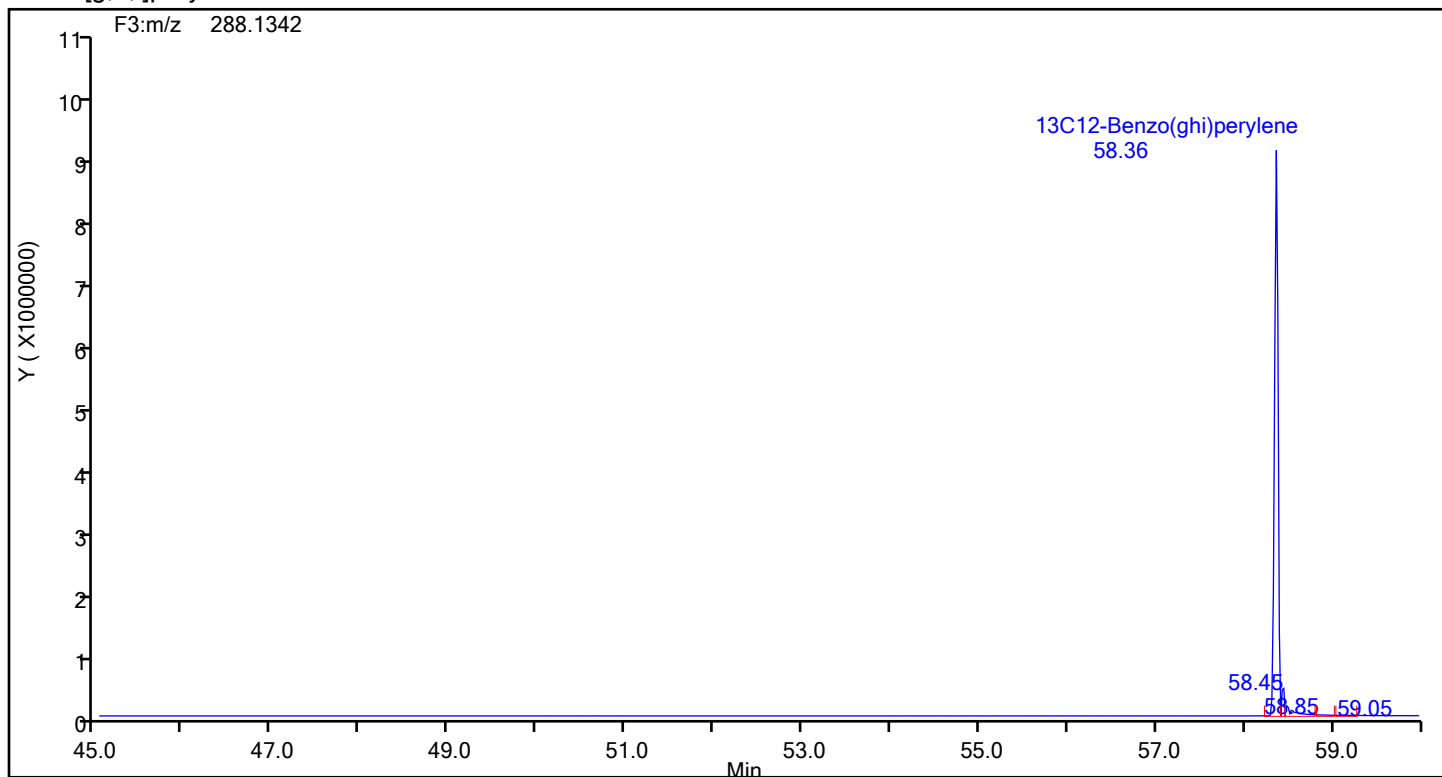
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-88192/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8819220-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/18/2024 13:28</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88920</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	1037	++	75.0	75.0	0.0798
91-57-6	2-Methylnaphthalene	153.8		75.0	75.0	0.0433
208-96-8	Acenaphthylene	121.9		3.00	3.00	0.0407
83-32-9	Acenaphthene	135.5		30.0	30.0	0.0450
86-73-7	Fluorene	140.8		30.0	30.0	0.0505
85-01-8	Phenanthrene	158.6		6.00	6.00	0.0780
120-12-7	Anthracene	126.8		30.0	30.0	0.0735
206-44-0	Fluoranthene	153.2		6.00	6.00	0.0747
129-00-0	Pyrene	190.9		6.00	6.00	0.0740
56-55-3	Benzo[a]anthracene	160.0		6.00	6.00	0.155
218-01-9	Chrysene	161.0		6.00	6.00	0.155
205-99-2	Benzo[b]fluoranthene	142.3		30.0	30.0	0.0137
207-08-9	Benzo[k]fluoranthene	138.9		6.00	6.00	0.0124
192-97-2	Benzo[e]pyrene	144.6		6.00	6.00	0.0112
50-32-8	Benzo[a]pyrene	129.1		3.00	3.00	0.0109
198-55-0	Perylene	135.0		3.00	3.00	0.0109
193-39-5	Indeno[1,2,3-cd]pyrene	144.5		3.00	3.00	0.00941
53-70-3	Dibenz(a,h)anthracene	147.5		6.00	6.00	0.00839
191-24-2	Benzo[g,h,i]perylene	146.7		6.00	6.00	0.00788

FORM I
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-88192/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8819220-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:06</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/18/2024 13:28</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88920</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88192</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	83		20-130
STL03357	13C6-2-Methylnaphthalene	73		20-130
189811-56-1	13C6-Acenaphthylene	90		20-130
189811-57-2	13C6-Acenaphthene	84		20-130
STL00616	13C6-Fluorene	91		20-130
1397194-60-3	13C6-Fluoranthrene	91		20-130
1397214-90-2	13C3-Pyrene	91		20-130
917378-11-1	13C6-Benzo (a) anthracene	91		20-130
1397177-72-8	13C6-Chrysene	88		20-130
STL03358	13C6-Benzo (b) fluoranthene	99		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	92		20-130
STL03382	13C4-Benzo (e) pyrene	92		20-130
STL03359	13C4-Benzo (a) pyrene	93		20-130
1520-96-3	Perylene-d12	96		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	104		20-130
STL03360	13C6-Dibenz (a,h) anthracene	98		20-130
350820-11-0	13C12-Benzo (ghi) perylene	81		20-130
189811-60-7	13C6-Anthracene	80		20-130
1189955-53-0	13C6-Phenanthrene	70		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Lims ID: LCSD 140-88192/20-B
Client ID:
Sample Type: LCSD
Inject. Date: 18-Jul-2024 13:28:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033564-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAL ICAL
Last Update: 18-Jul-2024 16:25:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 16:26:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:21	25352950		3.3746	82.8	82.8	0.006108	0.006108	82.84	
Naphthalene	11:21	225886496		1.2893	691.1	691.1	0.0532	0.0532	691	
D 13C6-2-Methylnaphthalene	13:45	10541480		1.6031	72.5	72.5	0.000964	0.000964	72.51	
2-Methylnaphthalene	13:45	13816218		1.2786	102.5	102.5	0.0288	0.0288	103	
D 13C6-Acenaphthylene	16:36	13556107		1.6520	90.5	90.5	0.003025	0.003025	90.48	
Acenaphthylene	16:37	14407090		2.3661	81.3	81.3	0.0271	0.0271	81.29	
* Acenaphthene-d10	17:11	4534581		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:18	7490411		0.9792	84.3	84.3	0.004364	0.004364	84.35	
Acenaphthene	17:18	8591078		1.2697	90.3	90.3	0.0300	0.0300	90.33	
Fluorene	19:35	8628455		1.2532	93.9	93.9	0.0337	0.0337	93.90	
D 13C6-Fluorene	19:35	7332969		0.8898	90.9	90.9	0.001662	0.001662	90.87	
D 13C6-Phenanthrene	24:56	10031218		0.5724	70.4	70.4	0.001349	0.001349	70.41	
Phenanthrene	24:56	11715882		1.1044	105.7	105.7	0.0520	0.0520	106	
D 13C6-Anthracene	25:15	8957144		0.4523	79.6	79.6	0.001708	0.001708	79.57	
Anthracene	25:16	10285731		1.3586	84.5	84.5	0.0490	0.0490	84.52	
D 13C6-Fluoranthrene	33:39	27281206		1.1994	91.4	91.4	0.0156	0.0156	91.40	
Fluoranthene	33:40	32084518		1.1513	102.1	102.1	0.0498	0.0498	102	
* Pyrene-d10	35:12	12443582		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:20	30519034		1.3512	90.8	90.8	0.0166	0.0166	90.76	
Pyrene	35:20	41378193		1.0652	127.3	127.3	0.0493	0.0493	127	
D 13C6-Benzo(a)anthracene	45:52	31747277		1.5189	91.4	91.4	0.0109	0.0109	91.41	
Benzo[a]anthracene	45:52	32974822		0.9739	106.7	106.7	0.1035	0.1035	107	
D 13C6-Chrysene	46:08	32821454		1.6287	88.1	88.1	0.0101	0.0101	88.13	
Chrysene	46:08	34567623		0.9815	107.3	107.3	0.1032	0.1032	107	
D 13C6-Benzo(b)fluoranthene	54:29	33179426		1.4621	99.2	99.2	0.001941	0.001941	99.24	
Benzo[b]fluoranthene	54:30	35419681		1.1249	94.9	94.9	0.009109	0.009109	94.90	
D 13C6-Benzo(k)fluoranthene	54:37	36923938		1.7507	92.2	92.2	0.001621	0.001621	92.24	
Benzo[k]fluoranthene	54:37	38548998		1.1271	92.6	92.6	0.008284	0.008284	92.63	
* Benzo(e)pyrene-d12	55:23	11433165		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:28	34262392		1.6368	91.5	91.5	0.002774	0.002774	91.54	
Benzo[e]pyrene	55:28	33064073		1.0013	96.4	96.4	0.007482	0.007482	96.38	
D 13C4-Benzo(a)pyrene	55:36	32894837		1.5508	92.8	92.8	0.002928	0.002928	92.76	
Benzo[a]pyrene	55:36	31502062		1.1130	86.0	86.0	0.007244	0.007244	86.04	
D Perylene-d12	55:47	26184827		1.1917	96.1	96.1	0.0133	0.0133	96.09	
Perylene	55:51	33714979		1.4307	90.0	90.0	0.007286	0.007286	90.00	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	24190675		1.0218	103.5	103.5	0.007032	0.007032	104	
Indeno[1,2,3-cd]pyrene	57:55	26218152		1.1249	96.3	96.3	0.006274	0.006274	96.34	
D 13C6-Dibenz(a,h)anthracene	57:59	23587806		1.0553	97.8	97.8	0.004792	0.004792	97.75	
Dibenz(a,h)anthracene	57:59	26248951		1.1314	98.4	98.4	0.005593	0.005593	98.36	
D 13C12-Benzo(ghi)perylene	58:22	23645070		1.2749	81.1	81.1	0.001012	0.001012	81.11	
Benzo[g,h,i]perylene	58:22	29692792		1.2838	97.8	97.8	0.005256	0.005256	97.82	

QC Flag Legend

Processing Flags

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Lims ID: LCSD 140-88192/20-B
Client ID:
Sample Type: LCSD
Inject. Date: 18-Jul-2024 13:28:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033564-003
Operator ID: Xcalibur_System Instrument ID: D3PAH
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\EPA_23__PAH.m
Limit Group: HR - HRPAAH ICAL
Last Update: 18-Jul-2024 16:25:46 Calib Date: 20-Jun-2024 01:09:00
Integrator: RTE
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d
Column 1 : Restek-5Sil MS 25um (0.25 mm) Det: F1(6.03 :27.99)
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 16:26:32

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:21	11:24	-4	0.660	25352950	8865306	251	627	35320		
Naphthalene											
128.0626	11:21	11:21	-4	1.000	225886496	79102018	2432	6080	32526		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:46	-2	0.800	10541480	4832033	19	47	254318		
2-Methylnaphthalene											
142.0783	13:45	13:46	-3	1.000	13816218	6373075	713	1782	8938		
13C6-Acenaphthylene											
158.0828	16:36	16:37	-2	0.966	13556107	4680576	61	152	76731		
Acenaphthylene											
152.0626	16:37	16:39	-2	1.000	14407090	5030672	660	1650	7622		
Acenaphthene-d10											
164.1404	17:11	17:13	-1		4534581	1520978	19	47	80051		
13C6-Acenaphthene											
160.0984	17:18	17:19	-2	1.007	7490411	2571487	52	130	49452		
Acenaphthene											
154.0783	17:18	17:18	-2	1.000	8591078	2873307	392	980	7330		
Fluorene											
166.0783	19:35	19:35	-2	1.000	8628455	2417473	359	897	6734		
13C6-Fluorene											
172.0984	19:35	19:35	-2	1.139	7332969	2124832	18	45	118046		
13C6-Phenanthrene											
184.0984	24:56	24:57	-2	0.708	10031218	2161774	14	35	154412		
Phenanthrene											
178.0783	24:56	24:56	-1	1.000	11715882	2569352	497	1242	5170		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:15	25:16	-2	0.717	8957144	1866499	14	35	133321		
Anthracene											
178.0783	25:16	25:15	-1	1.000	10285731	2052899	497	1242	4131		
13C6-Fluoranthrene											
208.0984	33:39	33:39	-1	0.956	27281206	5146794	339	847	15182		
Fluoranthene											
202.0783	33:40	33:40	-1	1.000	32084518	5987907	1180	2950	5074		
Pyrene-d10											
212.1404	35:12	35:13	-1		12443582	2265408	18	45	125856		
13C3-Pyrene											
205.0883	35:20	35:20	-1	1.004	30519034	5613932	407	1017	13793		
Pyrene											
202.0783	35:20	35:20	-1	1.000	41378193	7706050	1180	2950	6531		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:51	0	1.303	31747277	5444751	512	1280	10634		
Benzo[a]anthracene											
228.0939	45:52	45:53	-1	1.000	32974822	5689506	2195	5487	2592		
13C6-Chrysene											
234.1140	46:08	46:07	0	1.311	32821454	5418983	512	1280	10584		
Chrysene											
228.0939	46:08	46:09	-1	1.000	34567623	5750028	2195	5487	2620		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:30	-1	0.984	33179426	8783084	88	220	99808		
Benzo[b]fluoranthene											
252.0939	54:30	54:29	0	1.000	35419681	9392631	360	900	26091		
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:37	0	0.986	36923938	9639148	88	220	109536		
Benzo[k]fluoranthene											
252.0939	54:37	54:38	-1	1.000	38548998	9590775	360	900	26641		
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		11433165	3875798	492	1230	7878		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:28	0	1.002	34262392	12013983	141	352	85206		
Benzo[e]pyrene											
252.0939	55:28	55:28	0	1.000	33064073	11666213	360	900	32406		
13C4-Benzo(a)pyrene											
256.1073	55:36	55:37	-1	1.004	32894837	11163116	141	352	79171		
Benzo[a]pyrene											
252.0939	55:36	55:36	-1	1.000	31502062	10239593	360	900	28443		
Perylene-d12											
264.1692	55:47	55:47	0	1.007	26184827	8634293	492	1230	17549		
Perylene											
252.0939	55:51	55:51	0	1.001	33714979	12006135	360	900	33350		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:55	-1	1.046	24190675	8033539	223	557	36025		

E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:55	0	1.000	26218152	9362427	227	567	41244		
13C6-Dibenz(a,h)anthracene											
284.1296	57:59	57:59	0	1.047	23587806	7775799	157	392	49527		
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	0	1.000	26248951	8575703	197	492	43531		
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:22	0	1.054	23645070	8403067	40	100	210077		
Benzo[g,h,i]perylene											
276.0939	58:22	58:23	-1	1.000	29692792	10068063	227	567	44353		

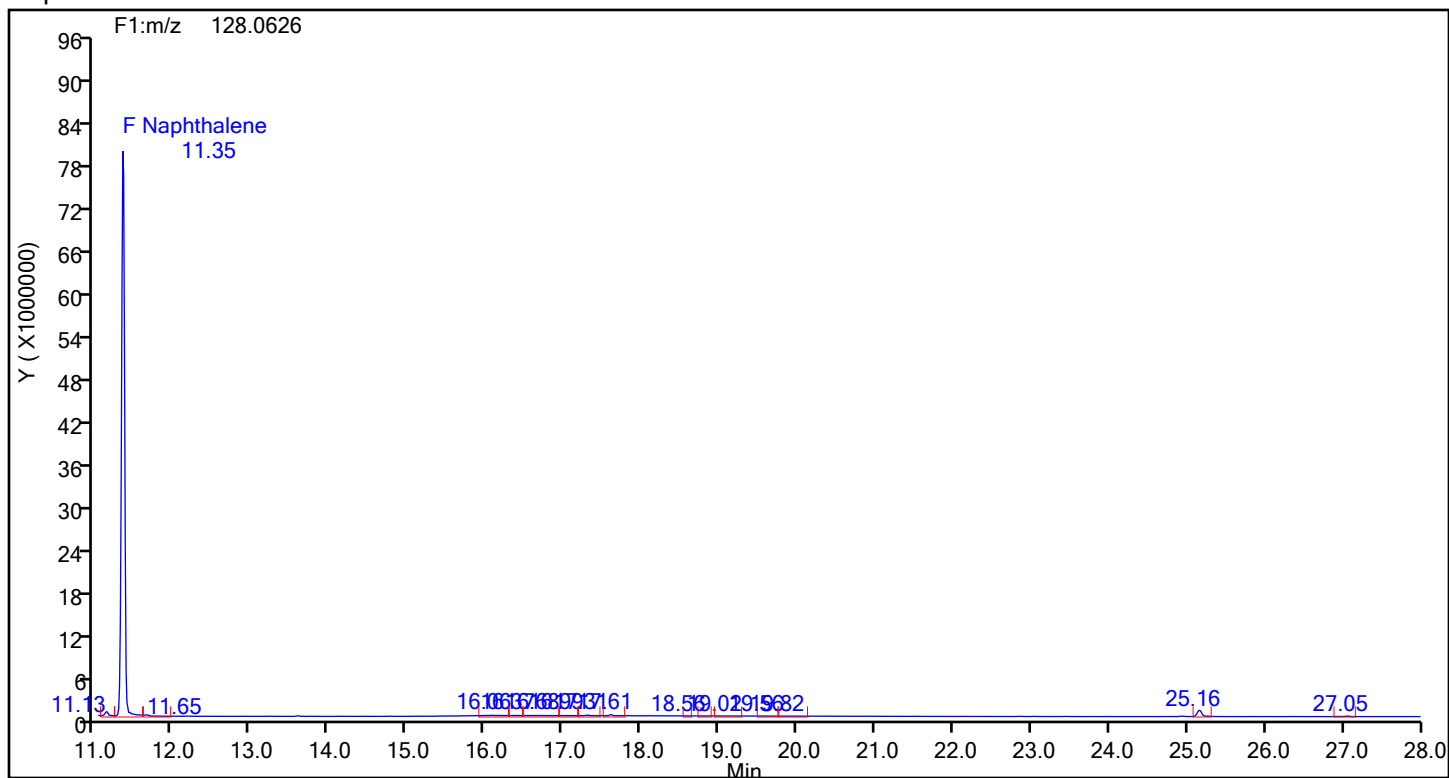
QC Flag Legend

Processing Flags

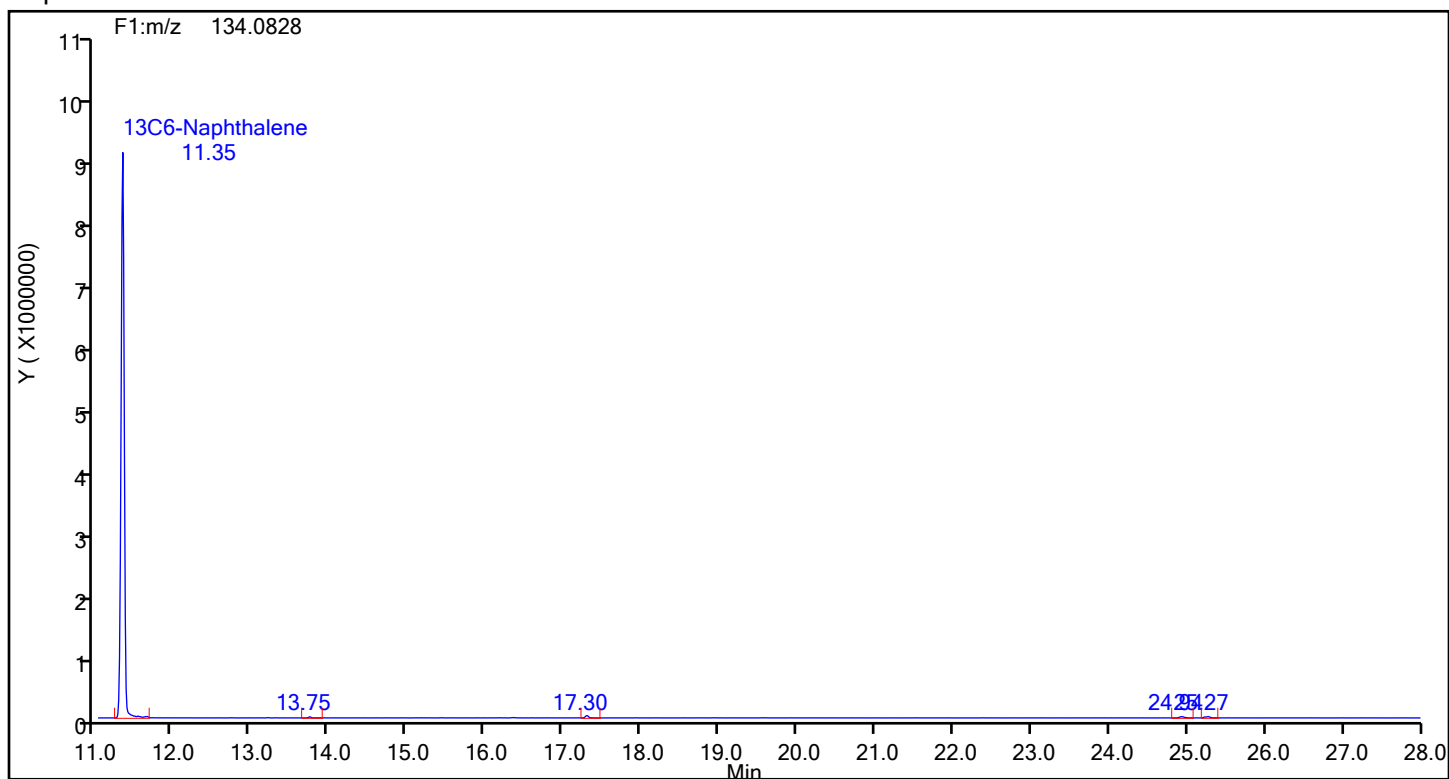
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Naphthalene



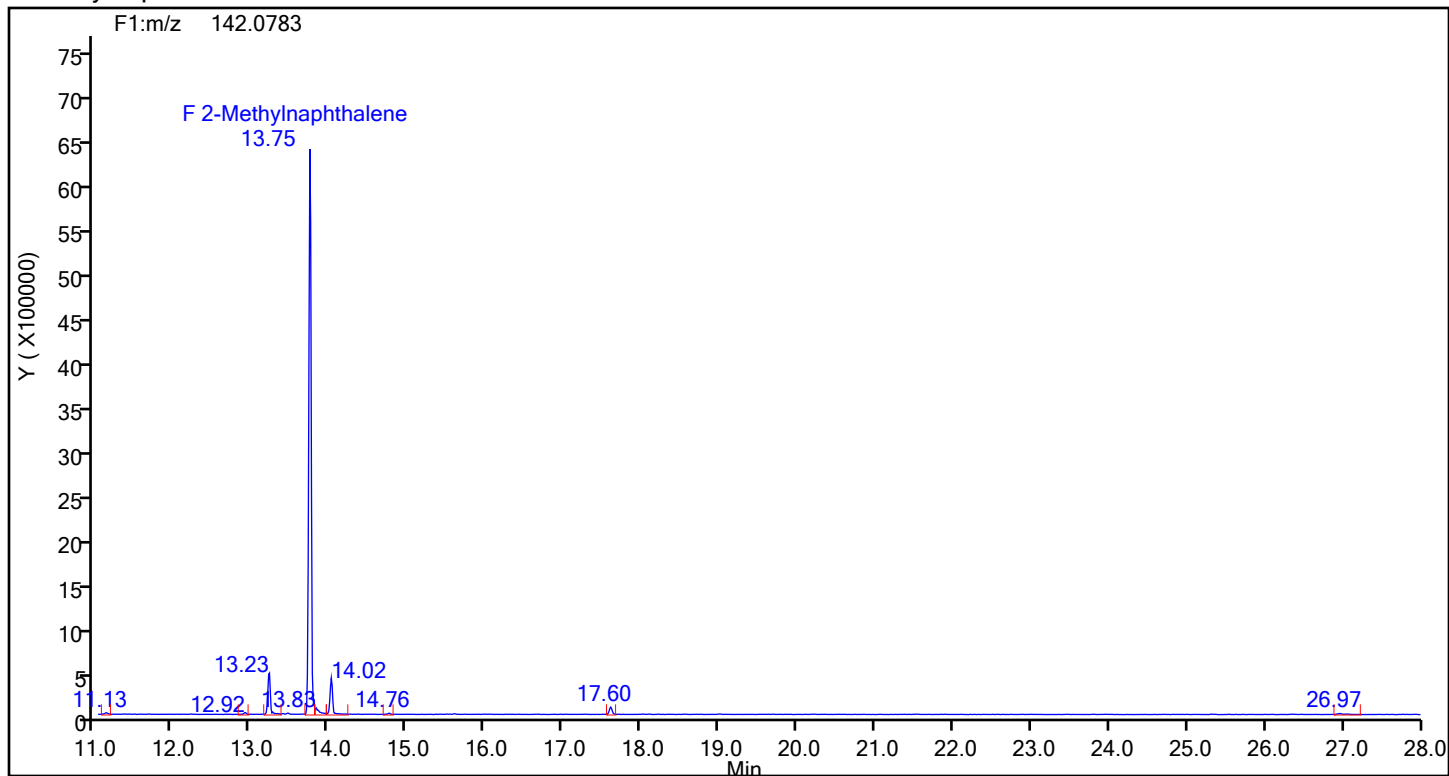
Naphthalene Standards



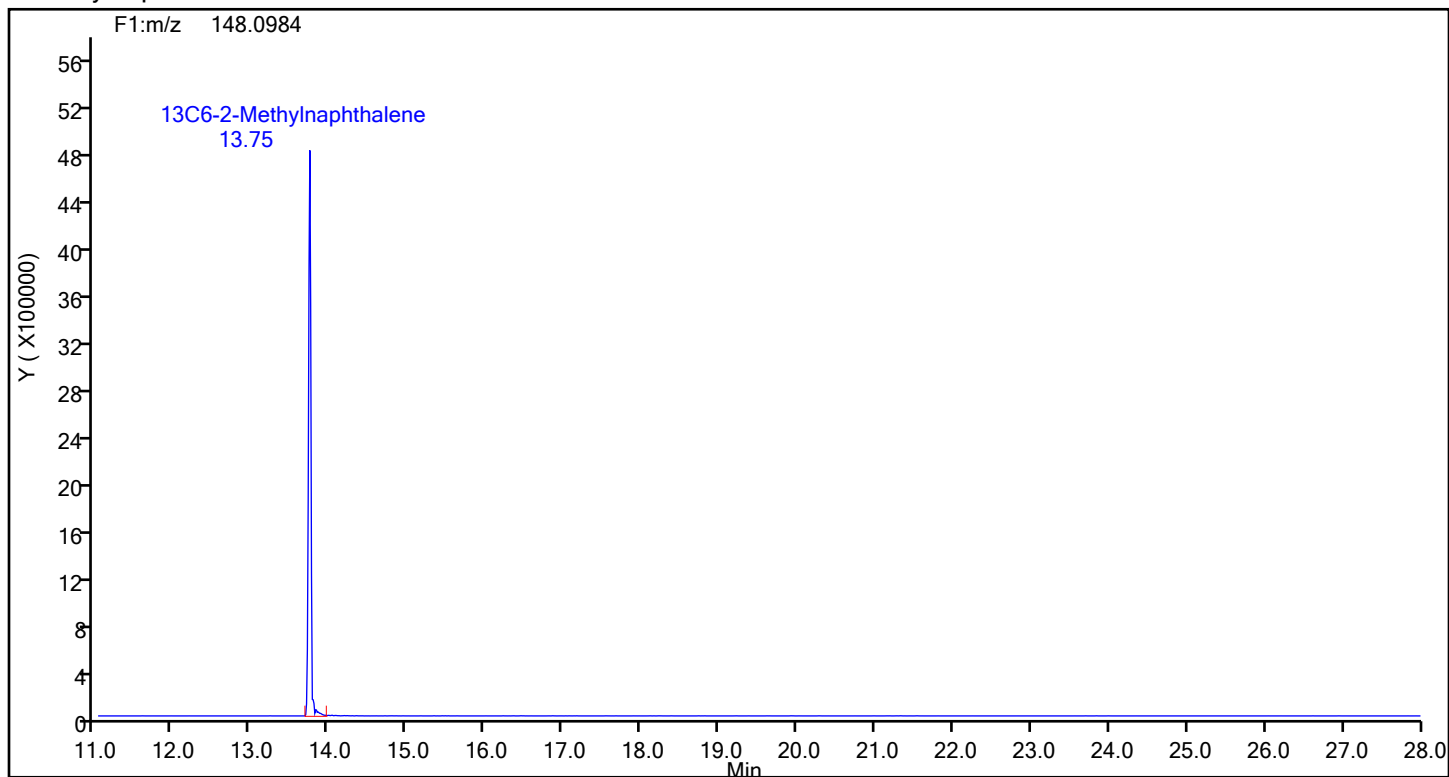
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

2-Methylnaphthalene



2-Methylnaphthalene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d

Injection Date: 18-Jul-2024 13:28:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23__PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

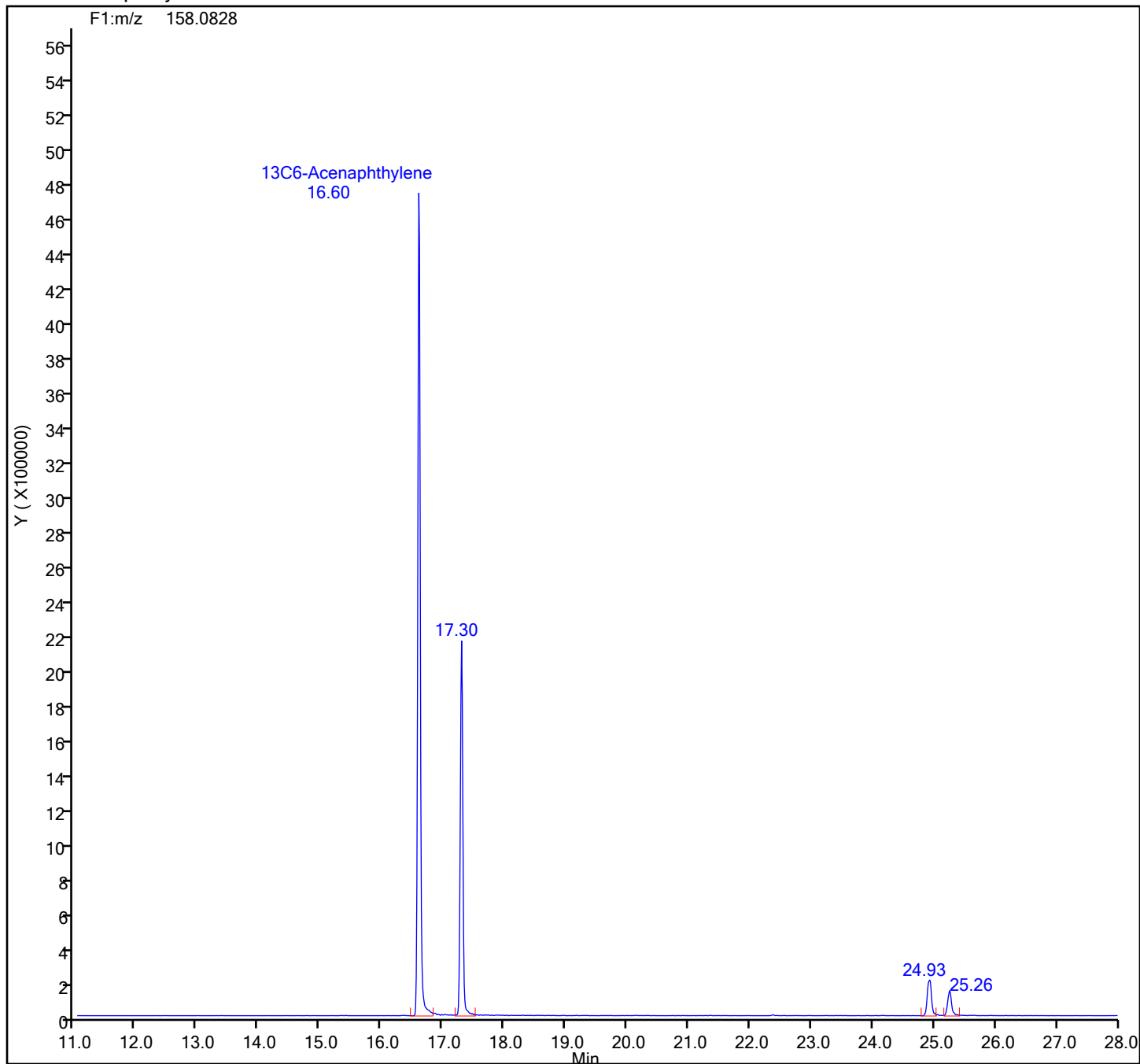
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Sample Line#: 3

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

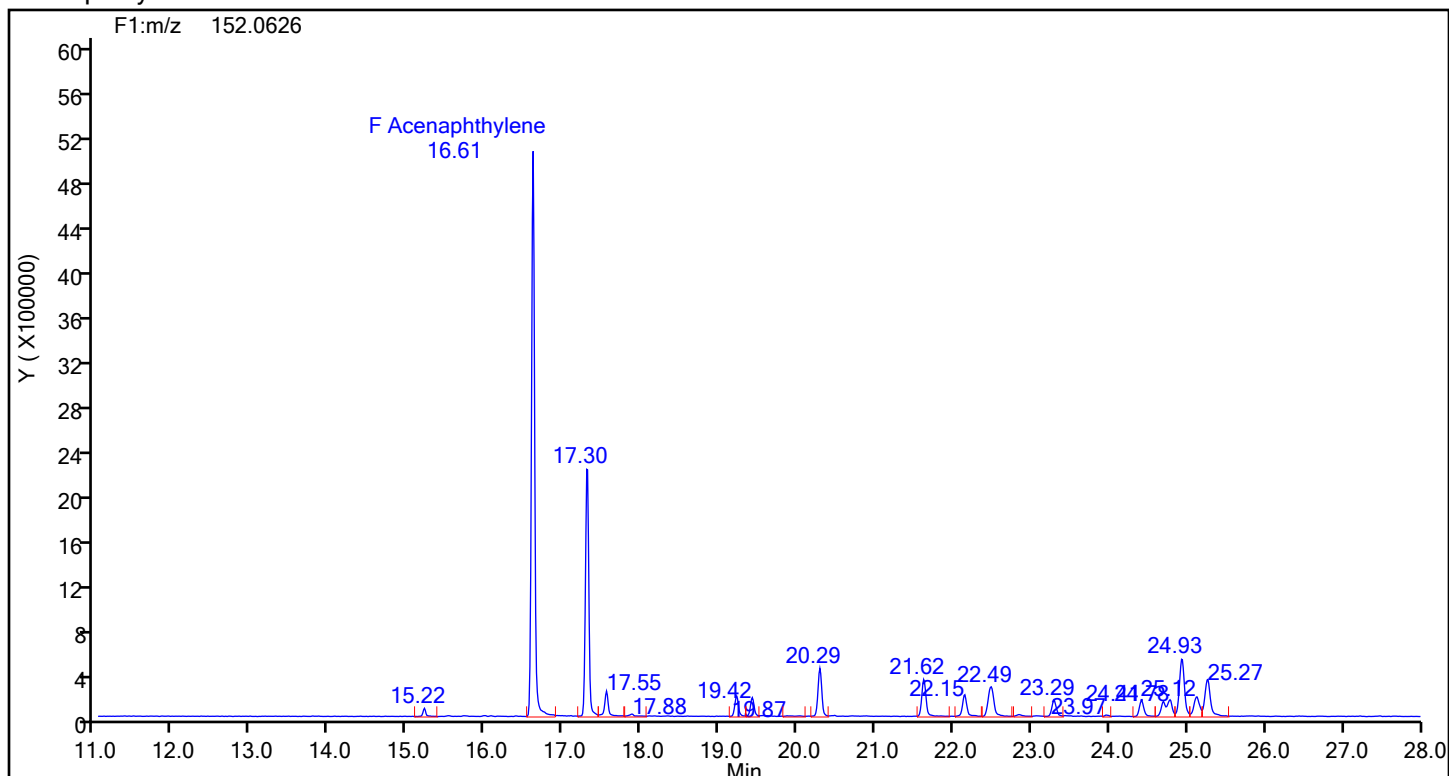
13C6-Acenaphthylene Standards



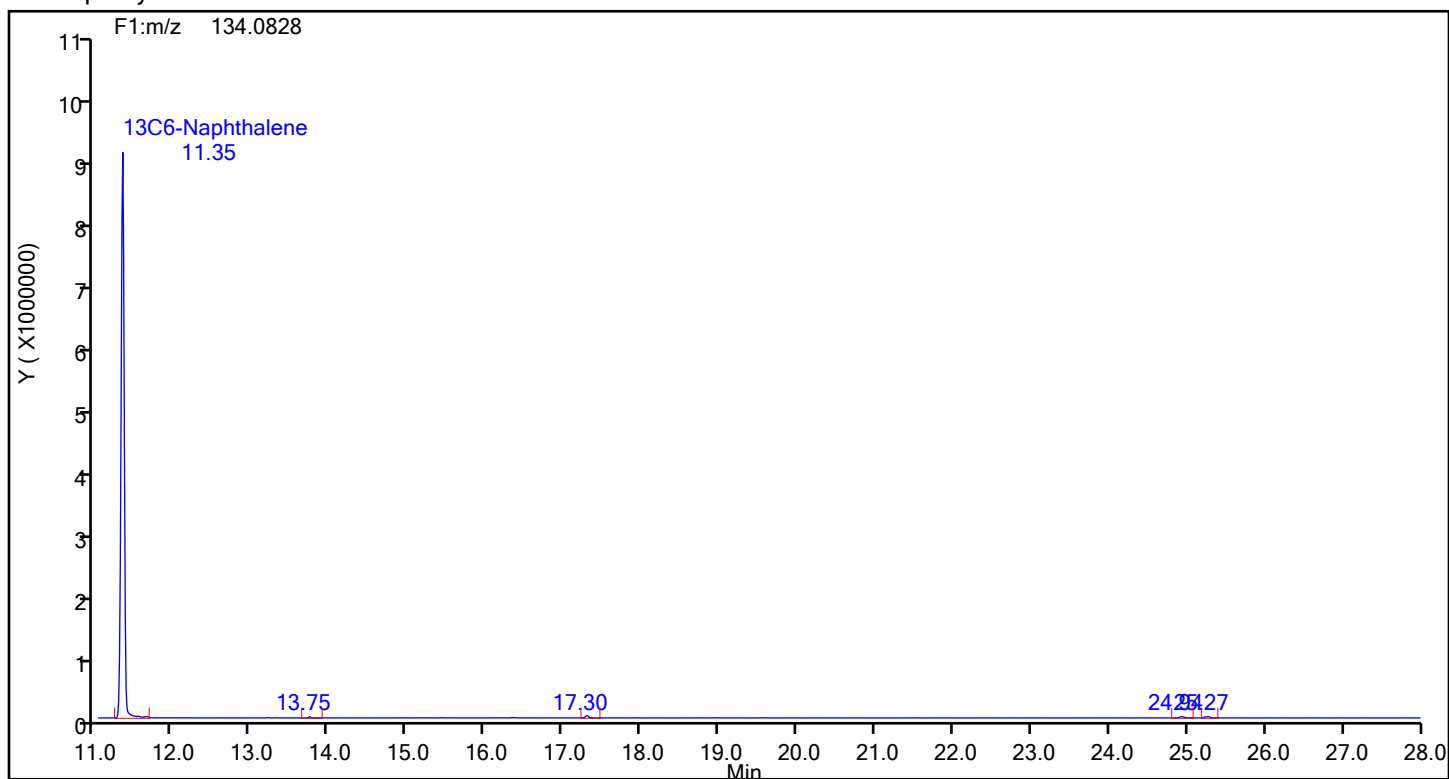
Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthylene



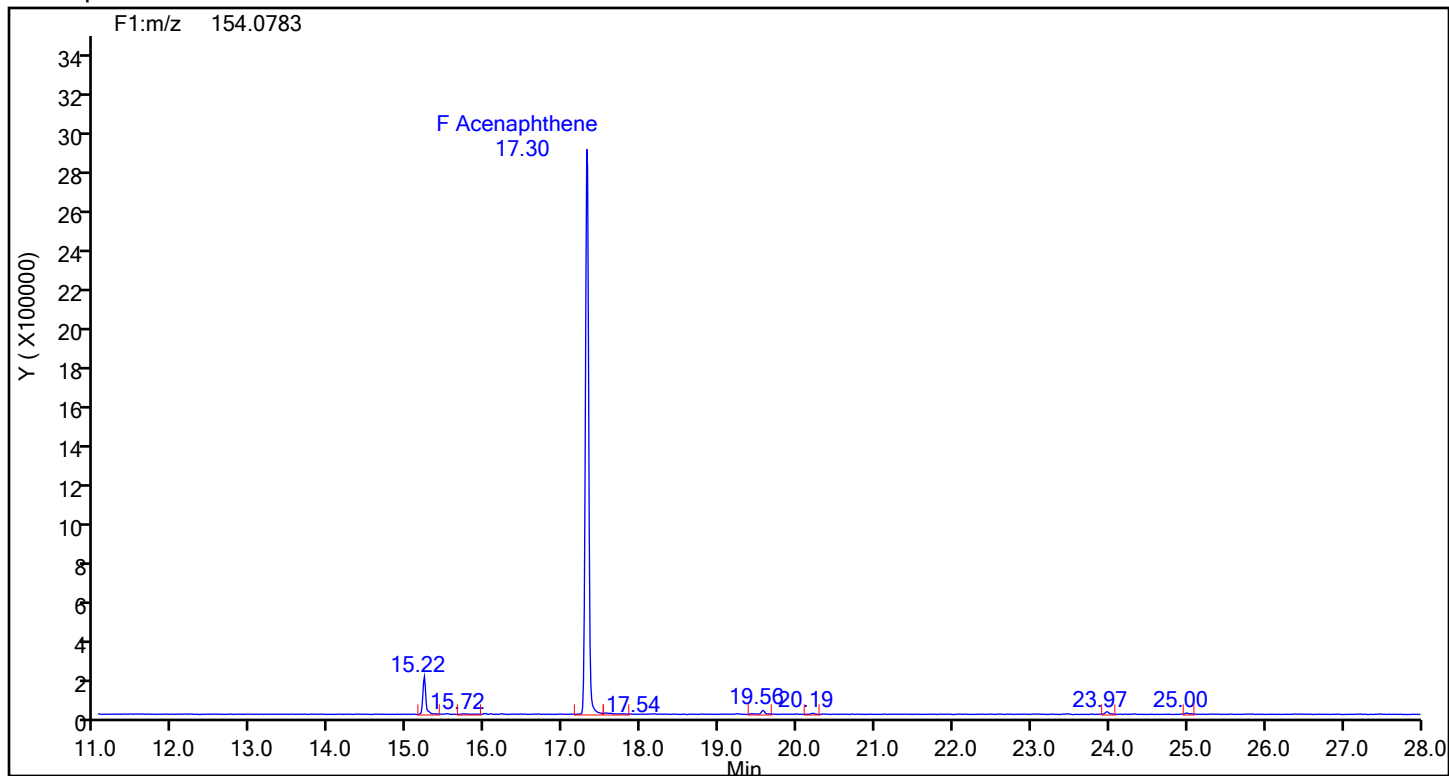
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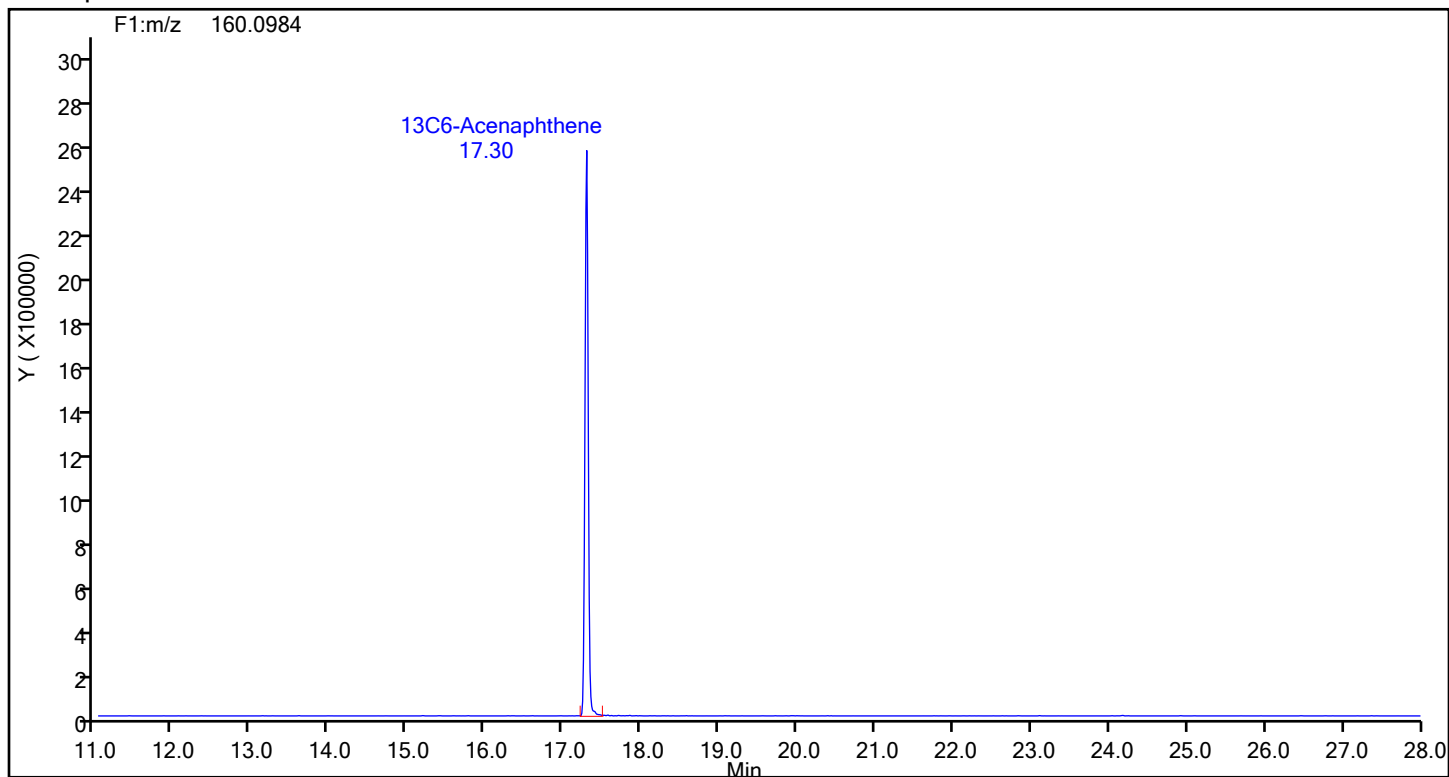
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Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Acenaphthene



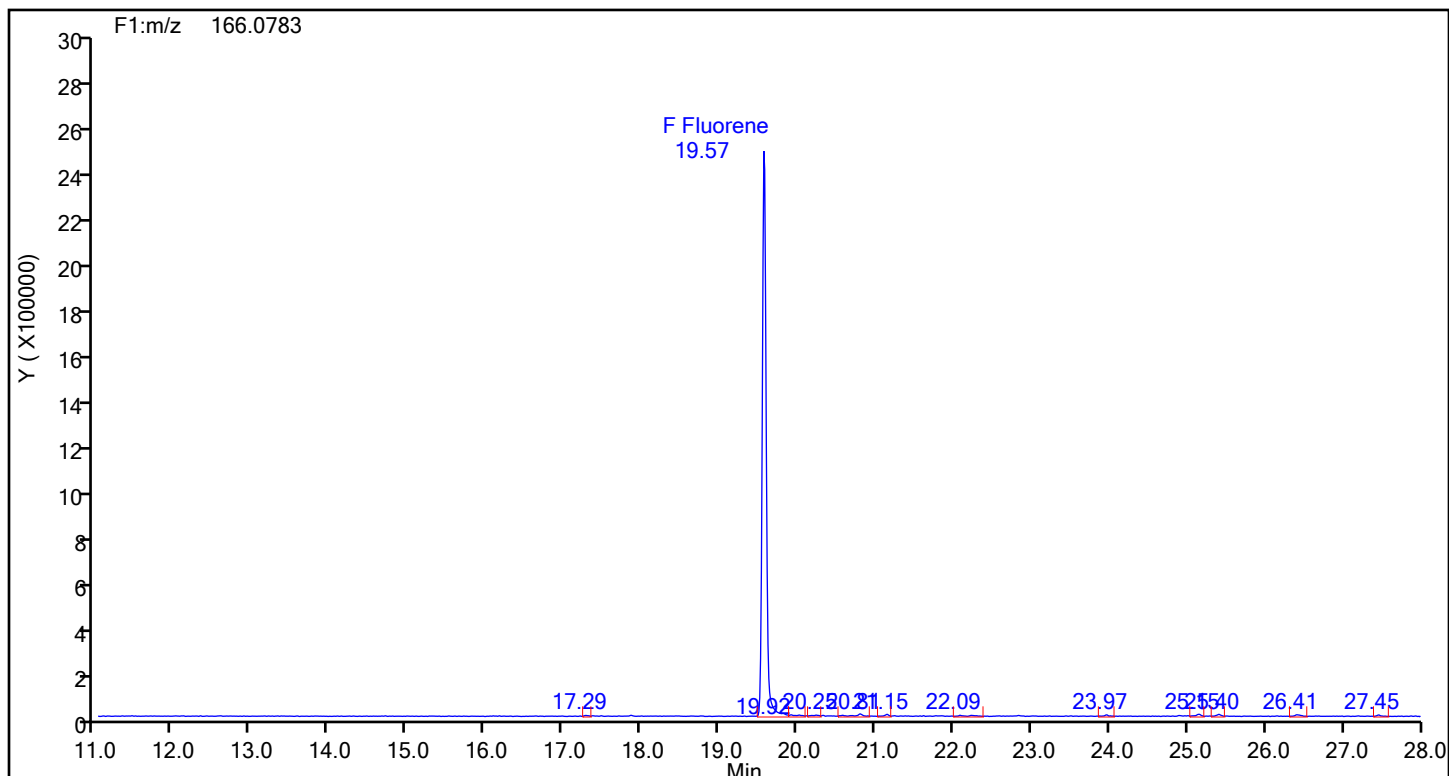
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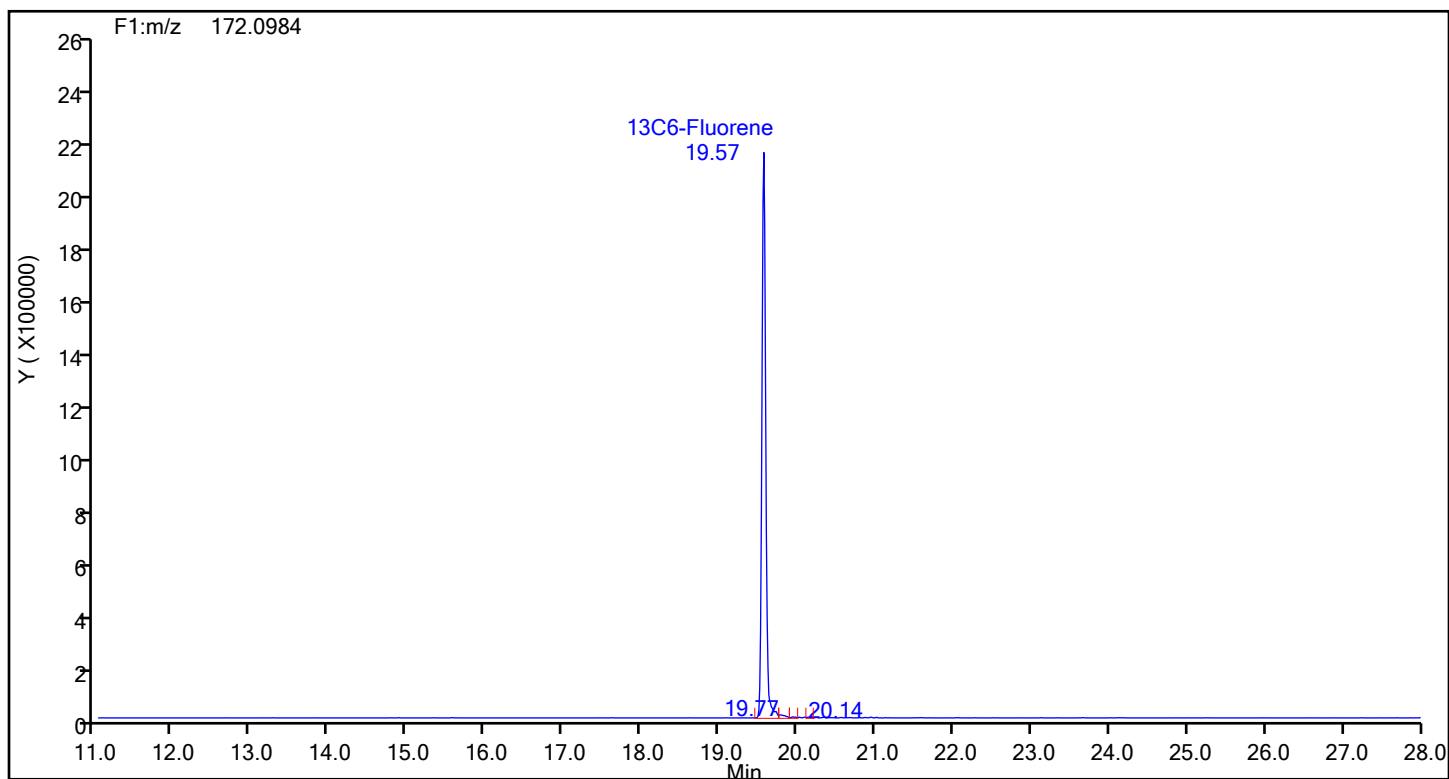
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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Fluorene



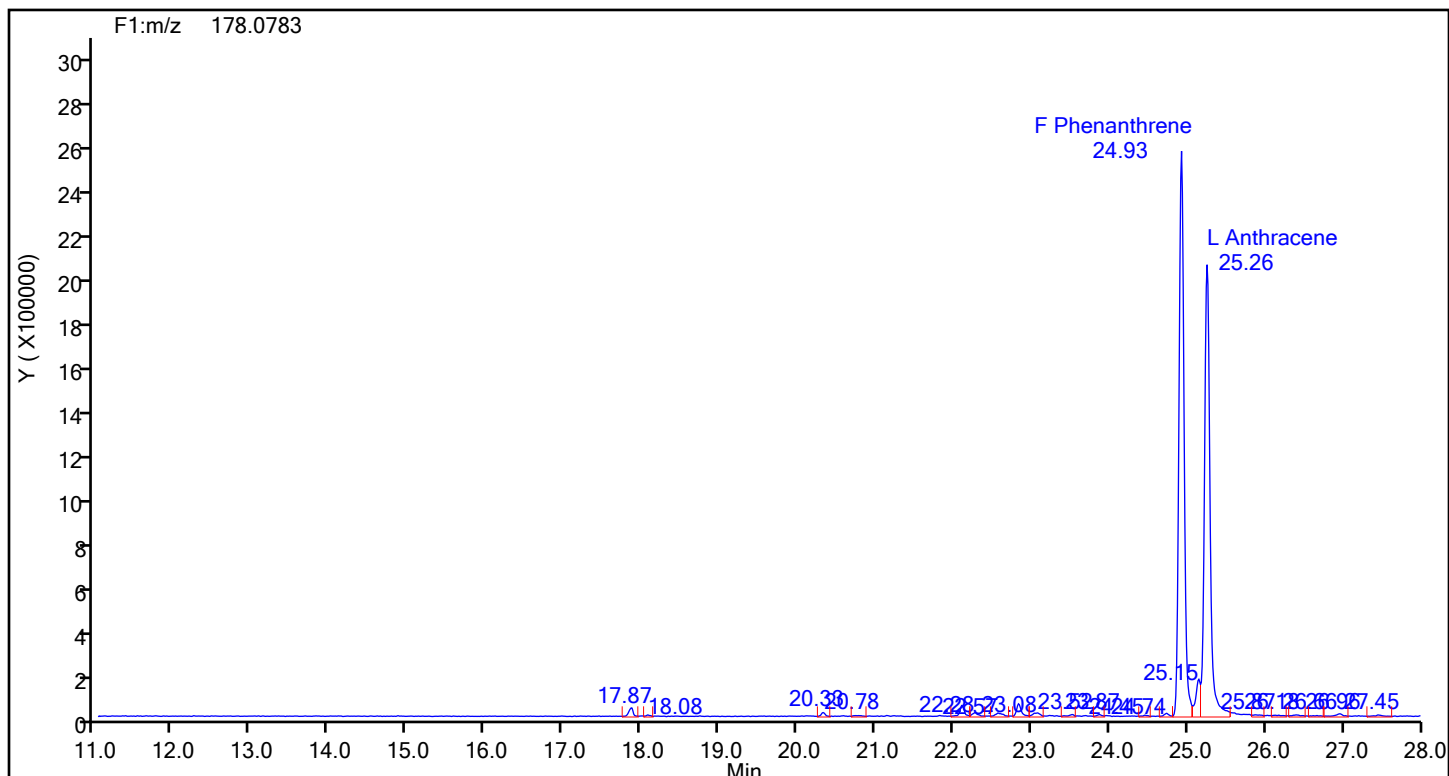
Fluorene Standards



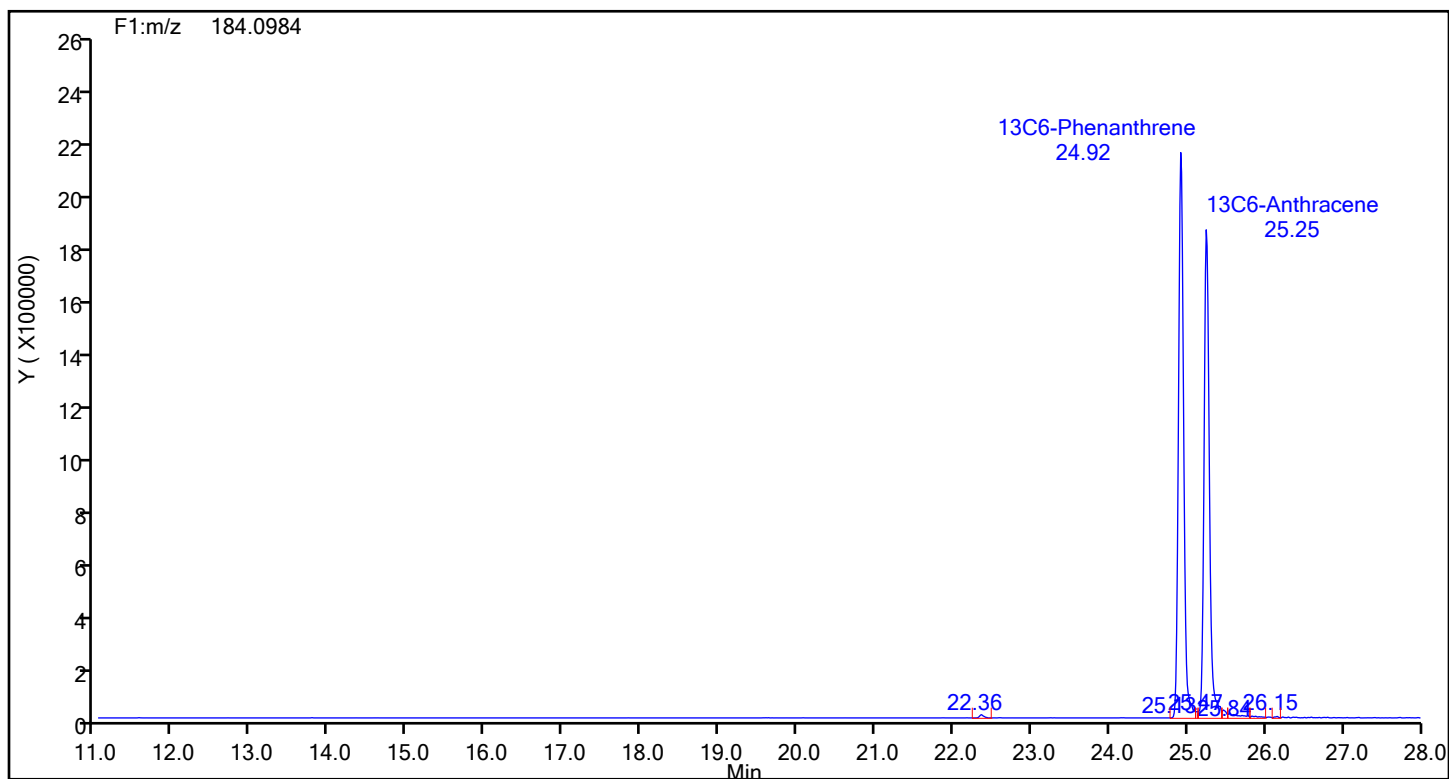
Eurofins Knoxville

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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Phenanthrene

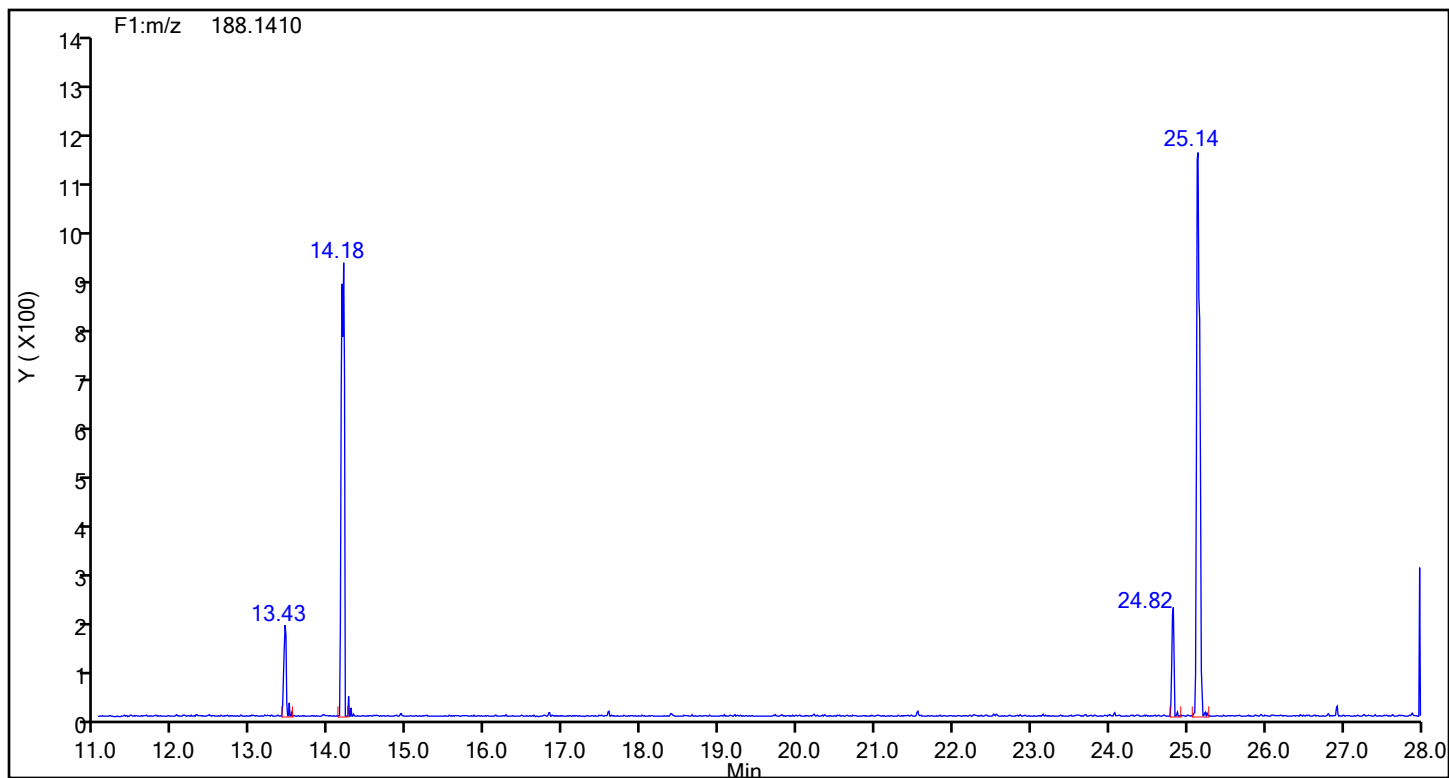


Phenanthrene Standards

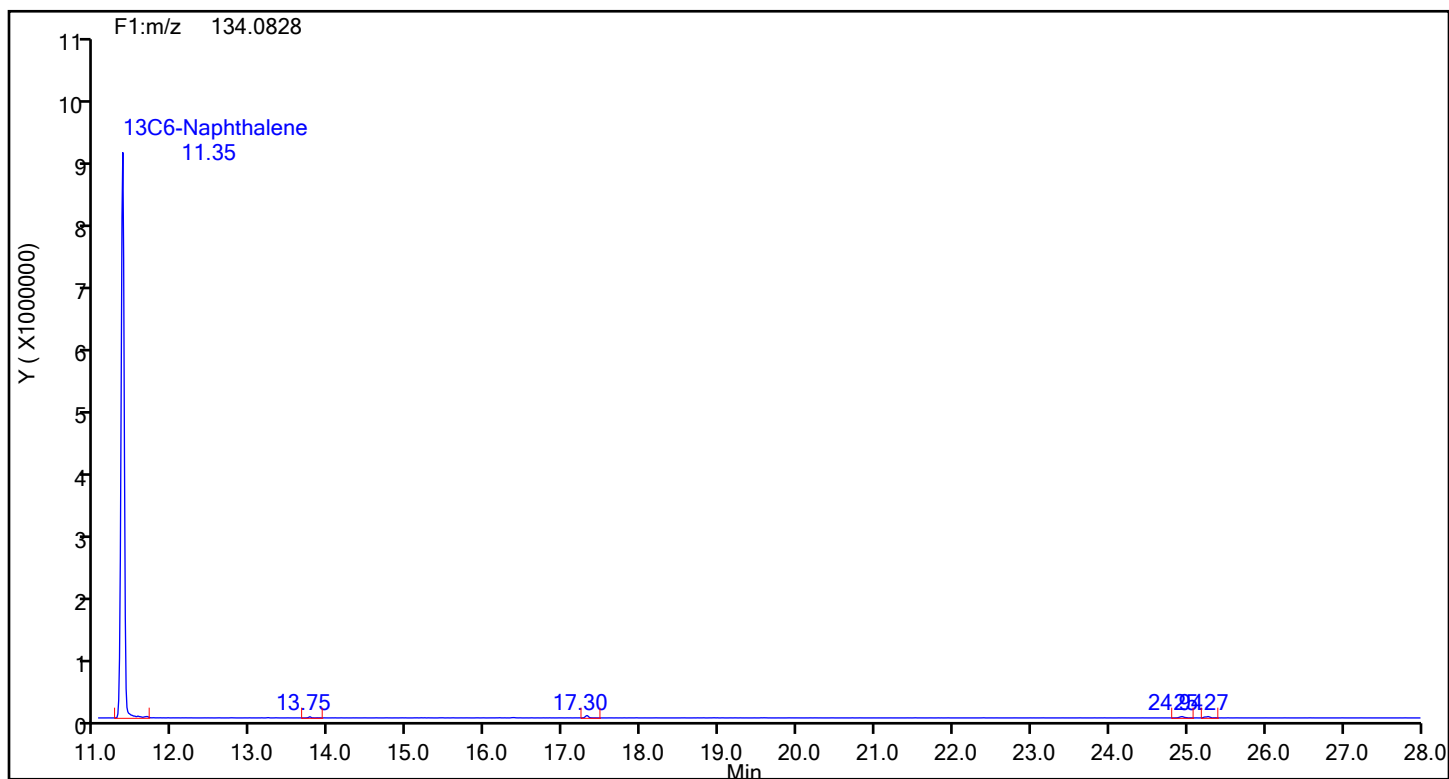


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Anthracin-d10

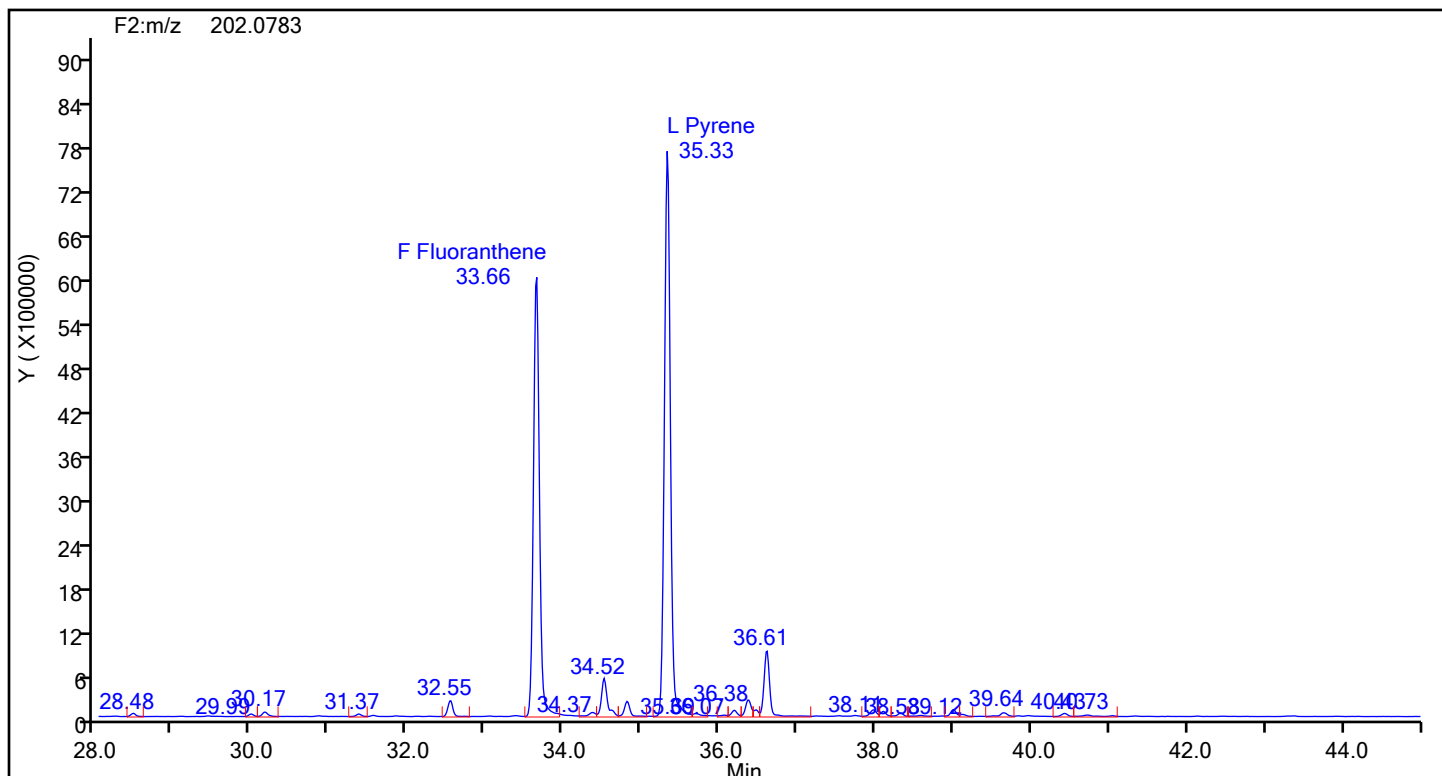


Anthracin-d10 Standards

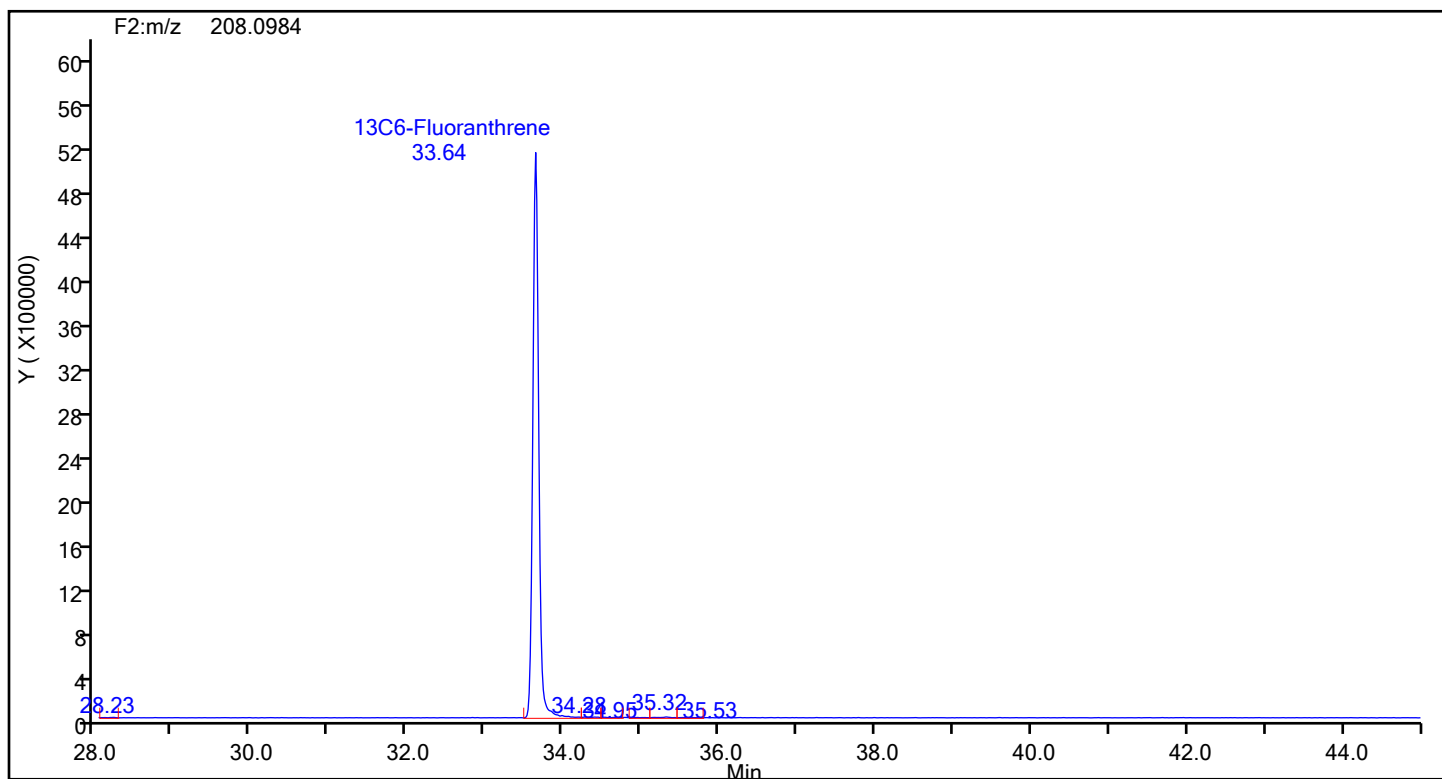


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
Fluoranthene



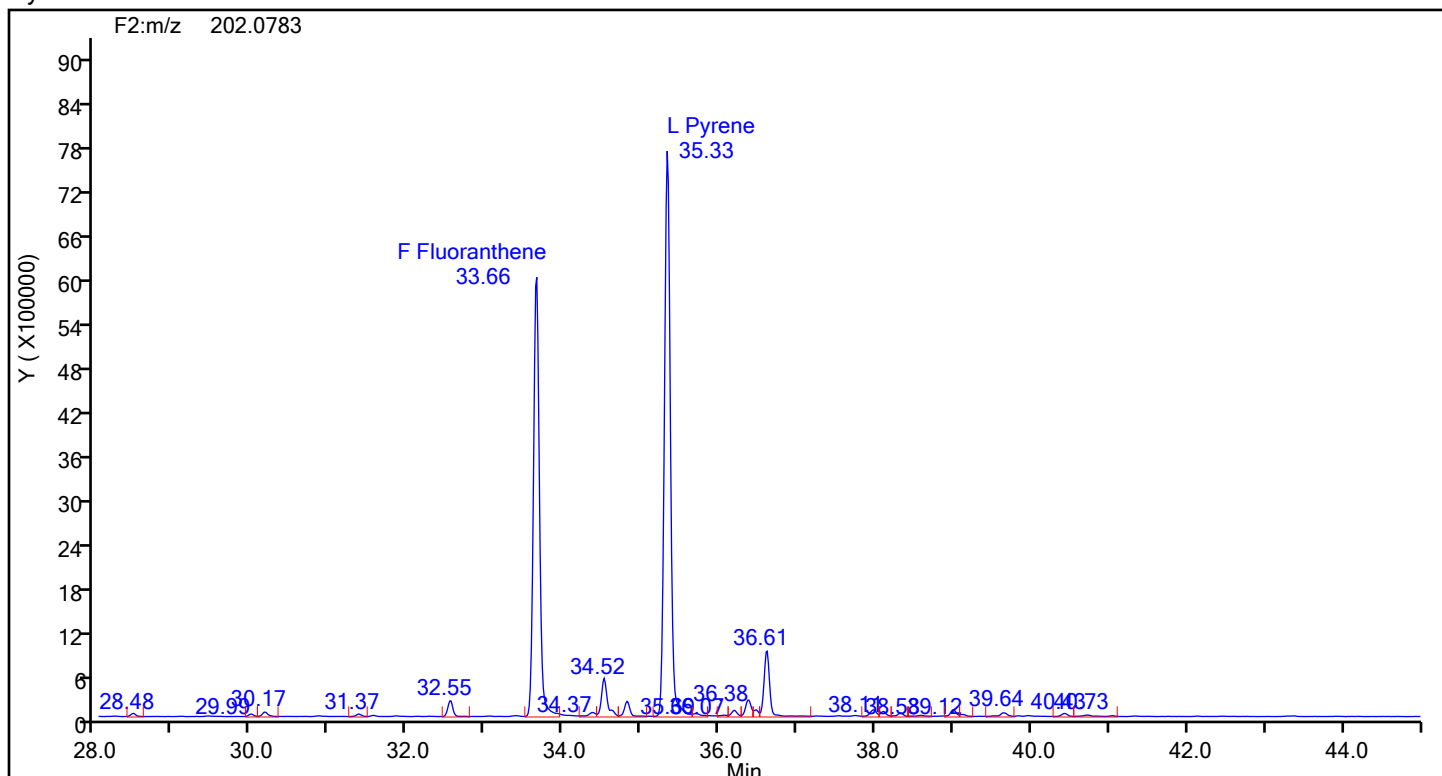
Fluoranthene Standards



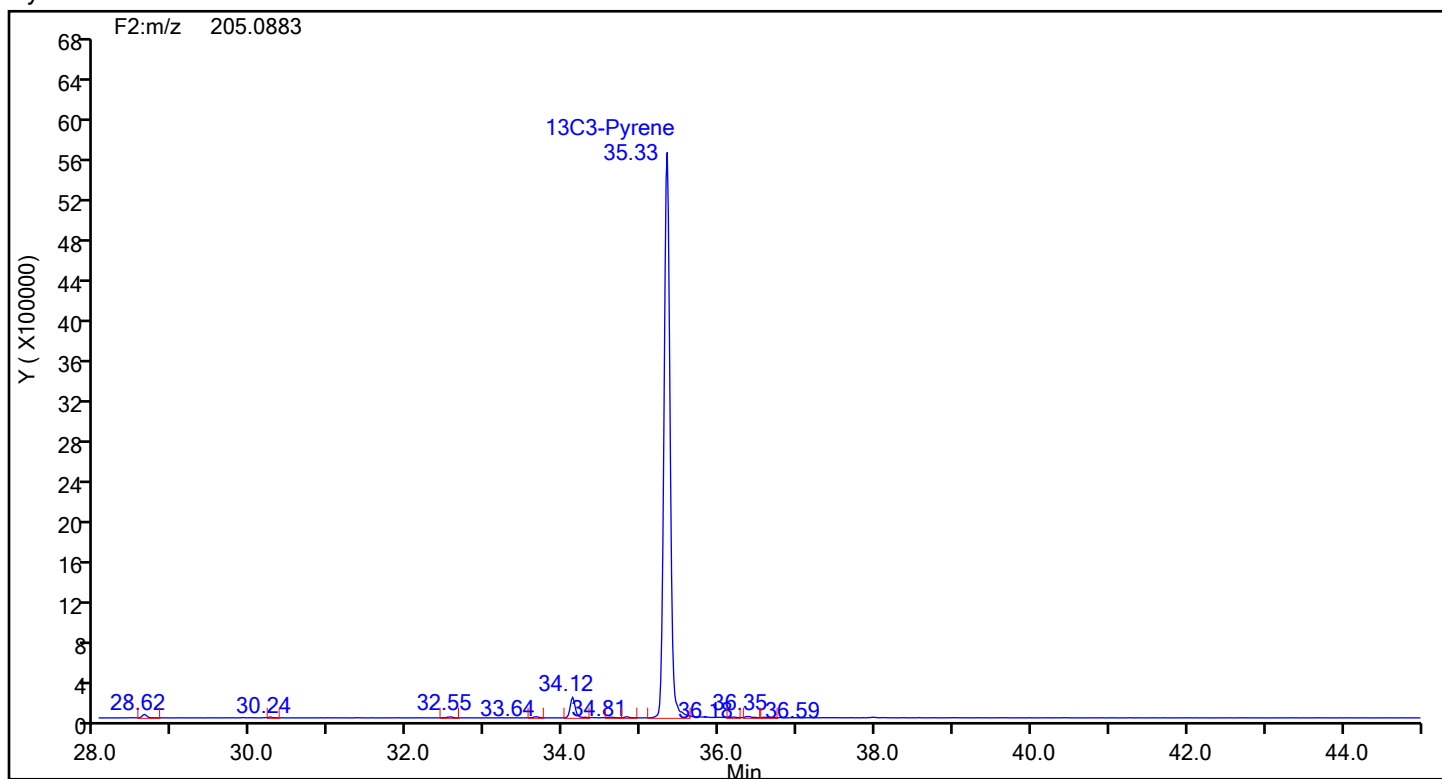
Eurofins Knoxville

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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23_PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Pyrene

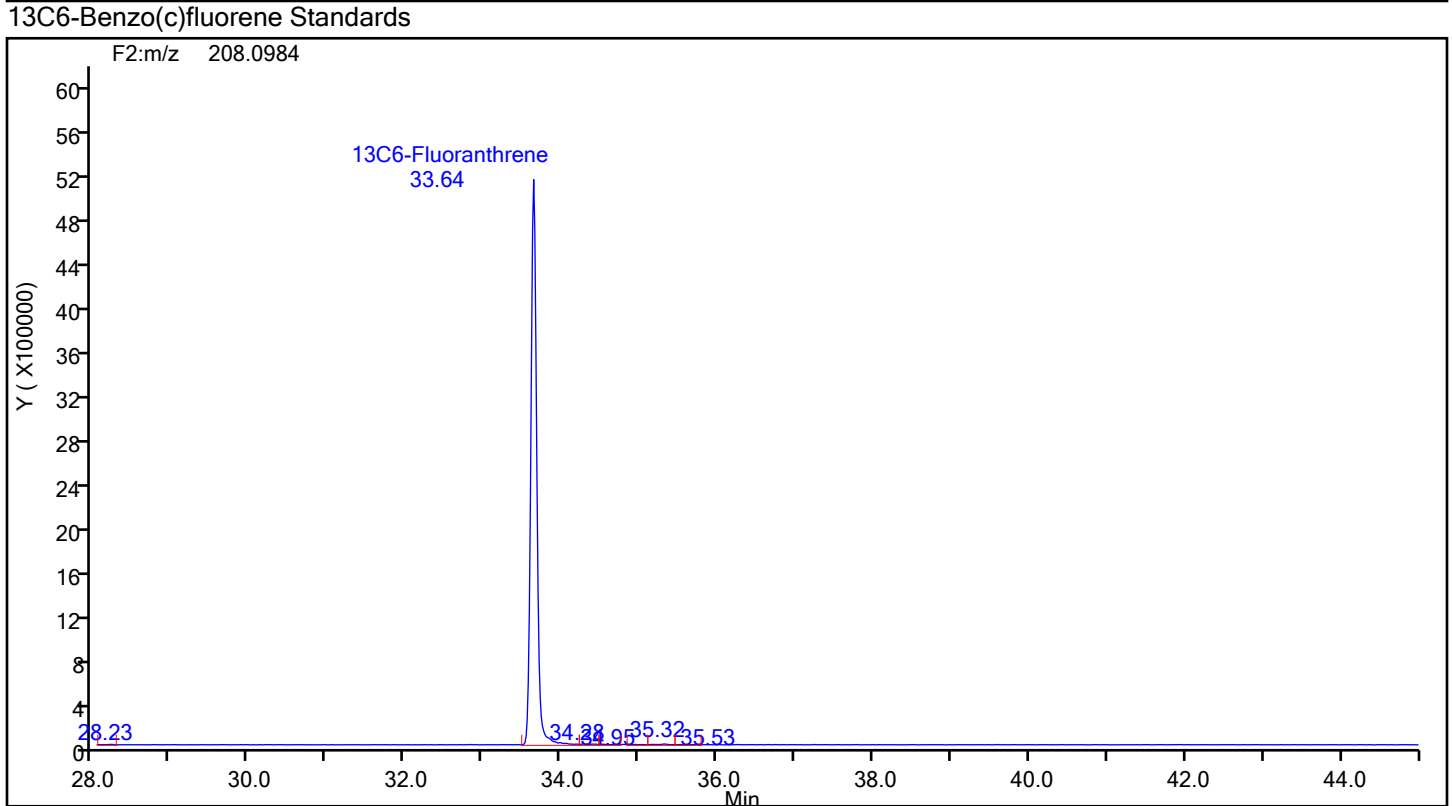
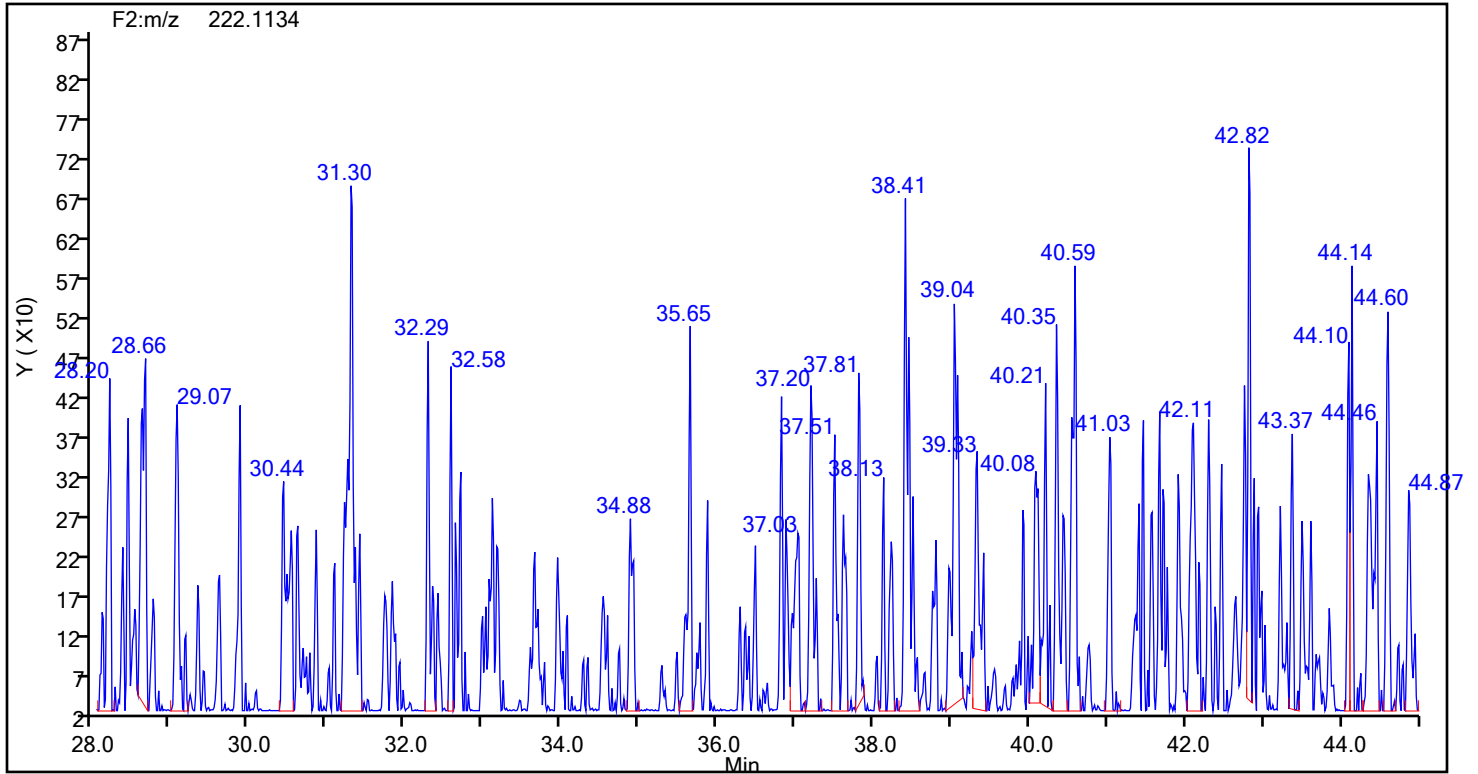


Pyrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm
13C6-Benzo(c)fluorene



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d

Injection Date: 18-Jul-2024 13:28:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur_System

Method: EPA_23_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

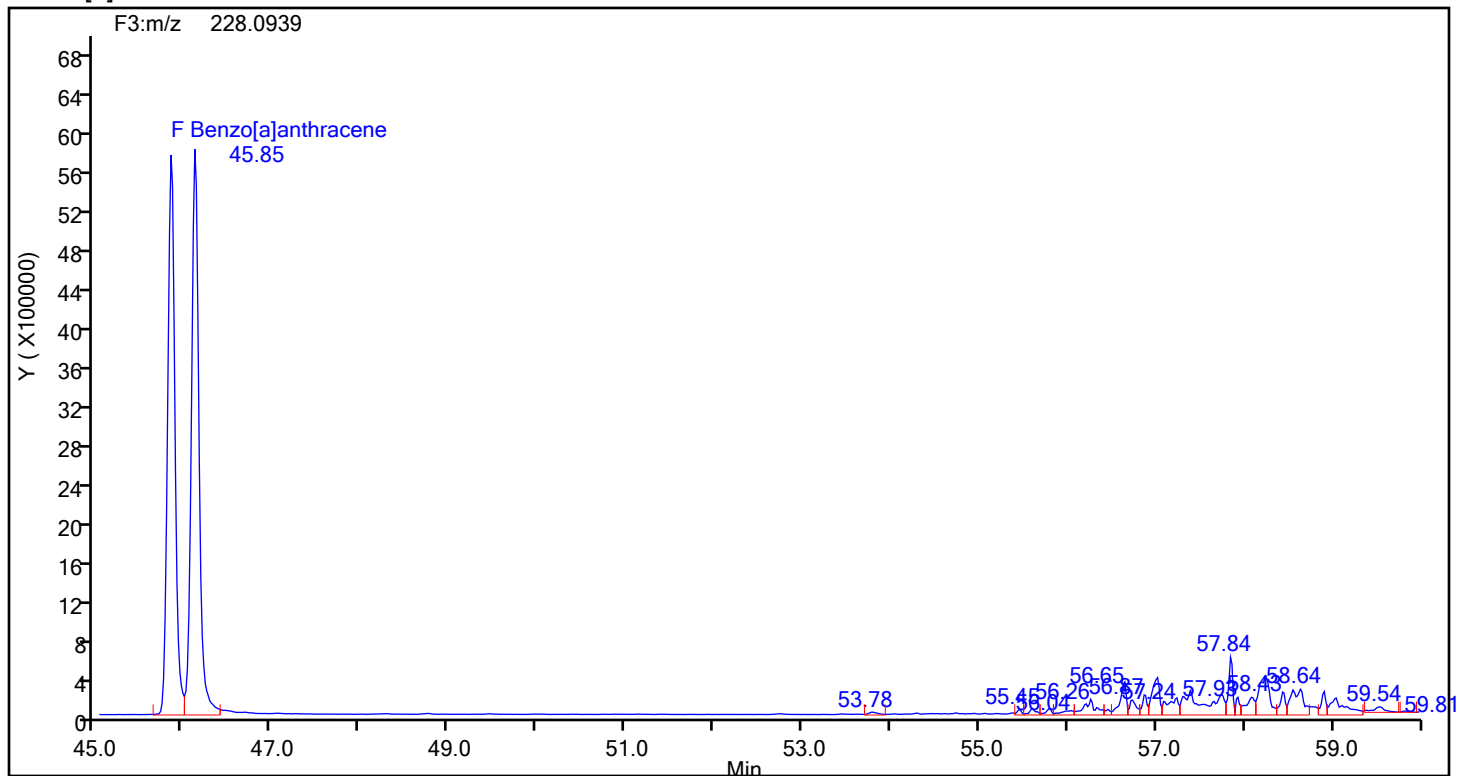
Worklist#: 88920

Sample Line#: 3

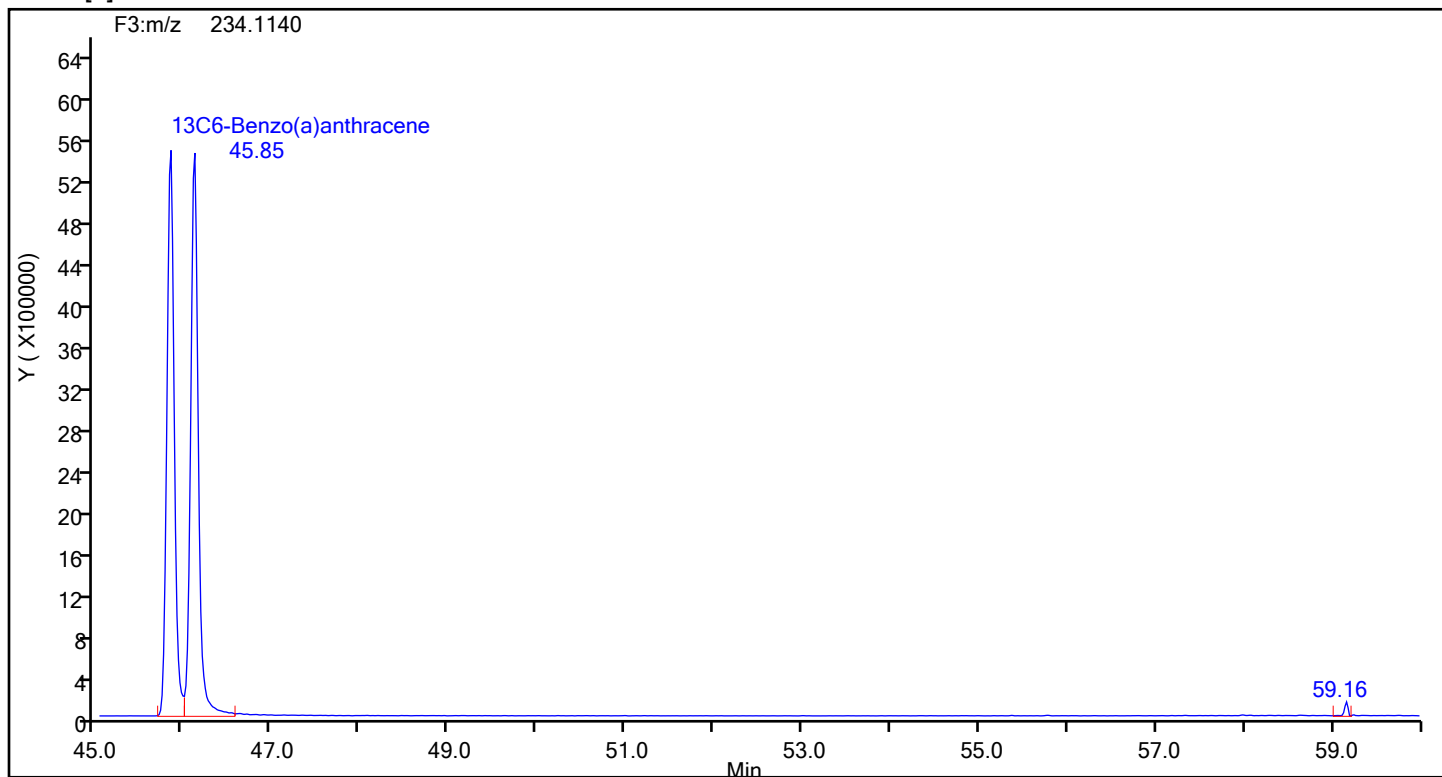
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[a]anthracene



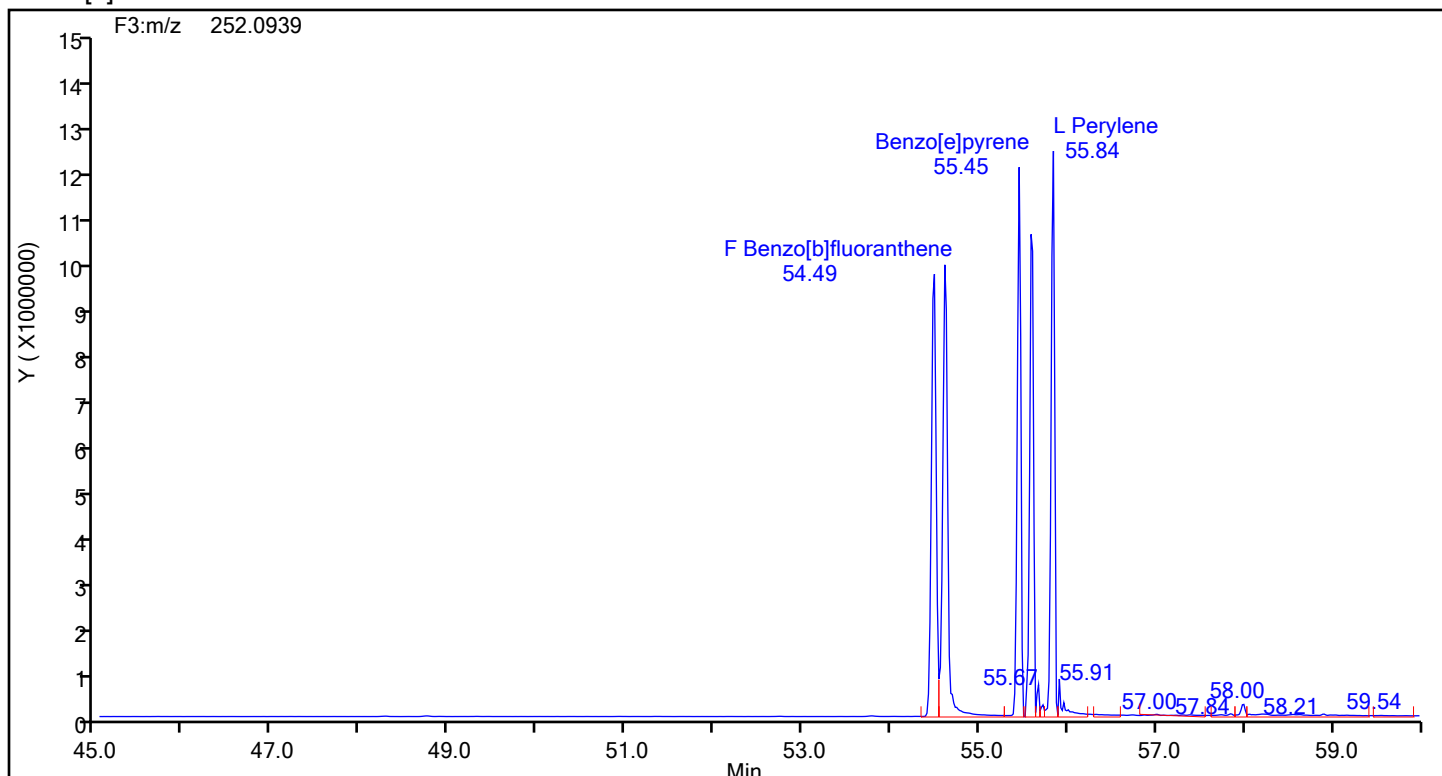
Benzo[a]anthracene Standards



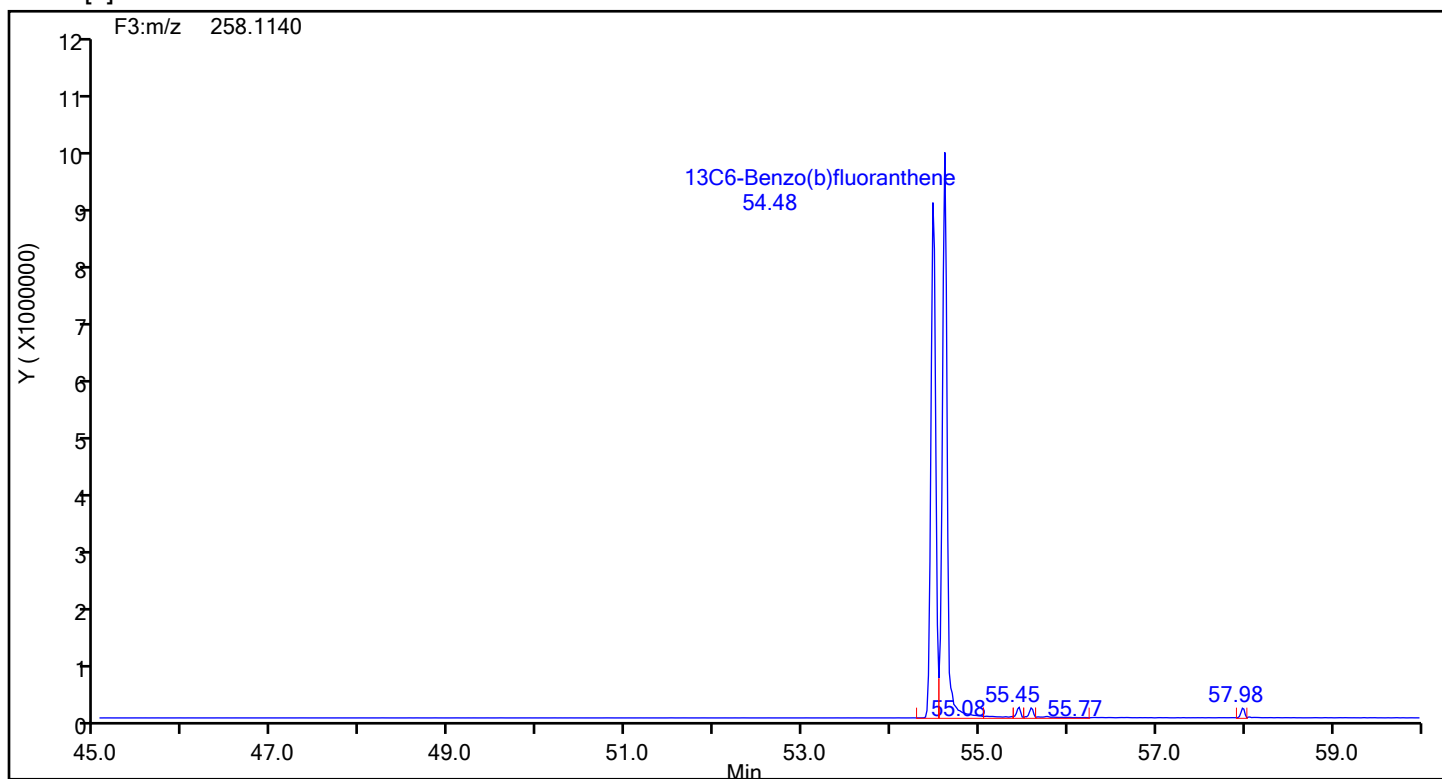
Eurofins Knoxville

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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[b]fluoranthene



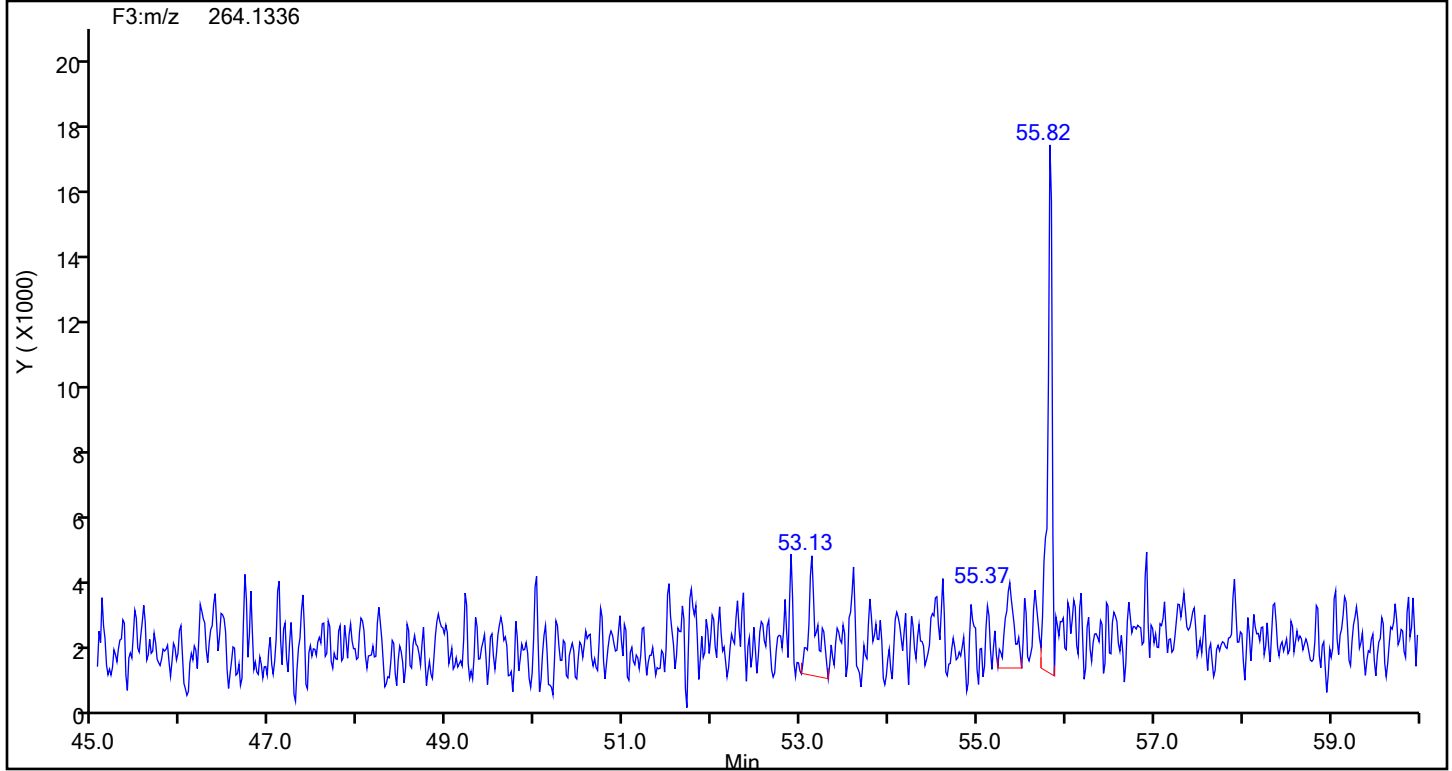
Benzo[b]fluoranthene Standards



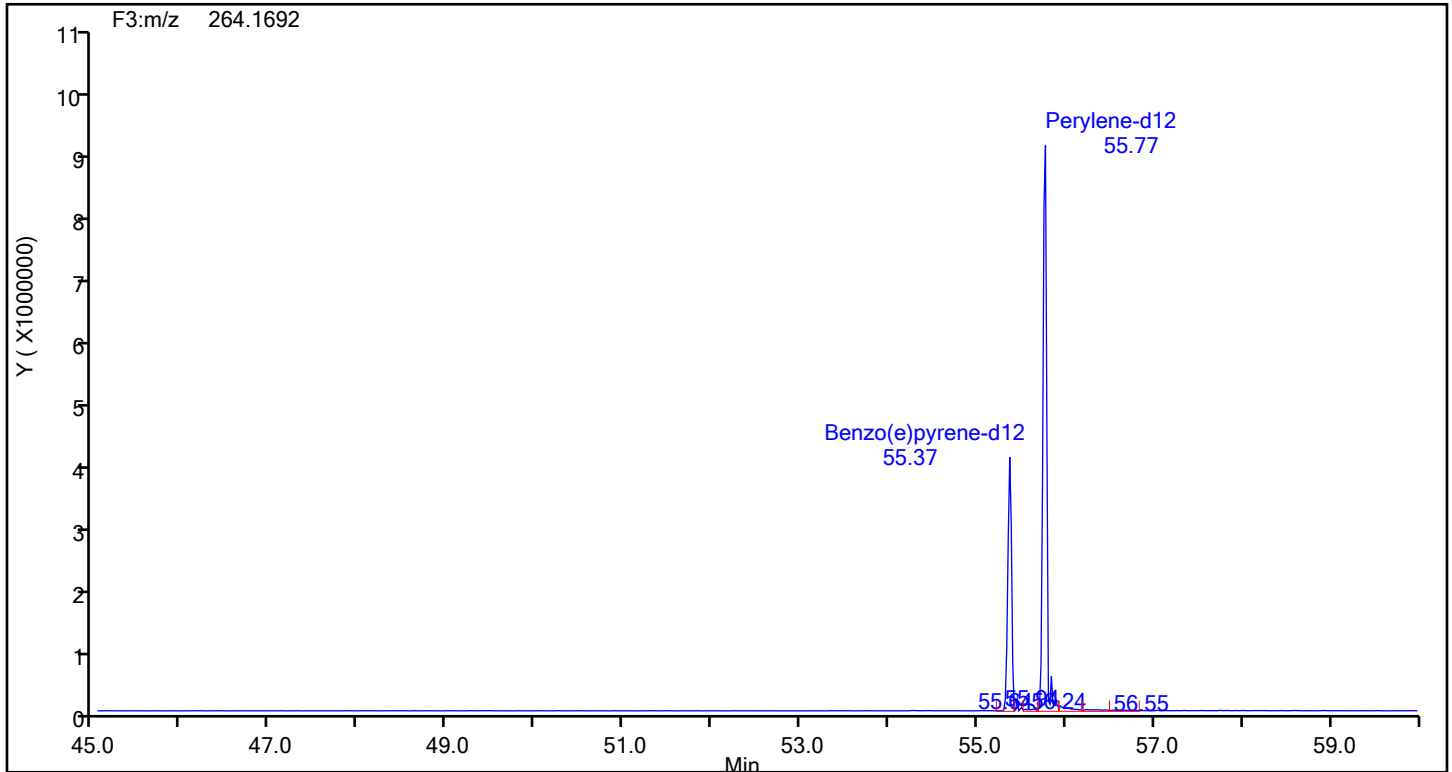
Eurofins Knoxville

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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAL ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



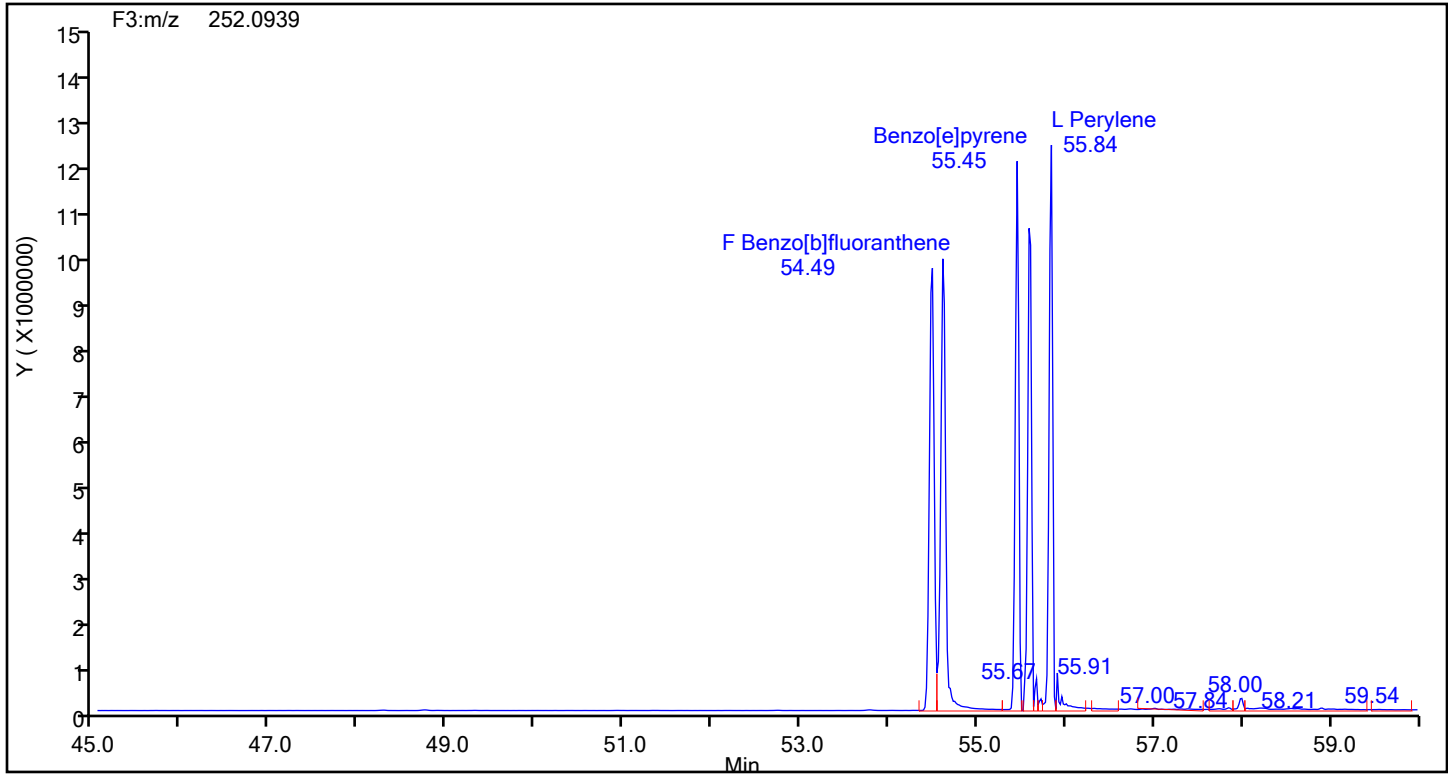
13C12-Benzo(j)fluoranthene Standards



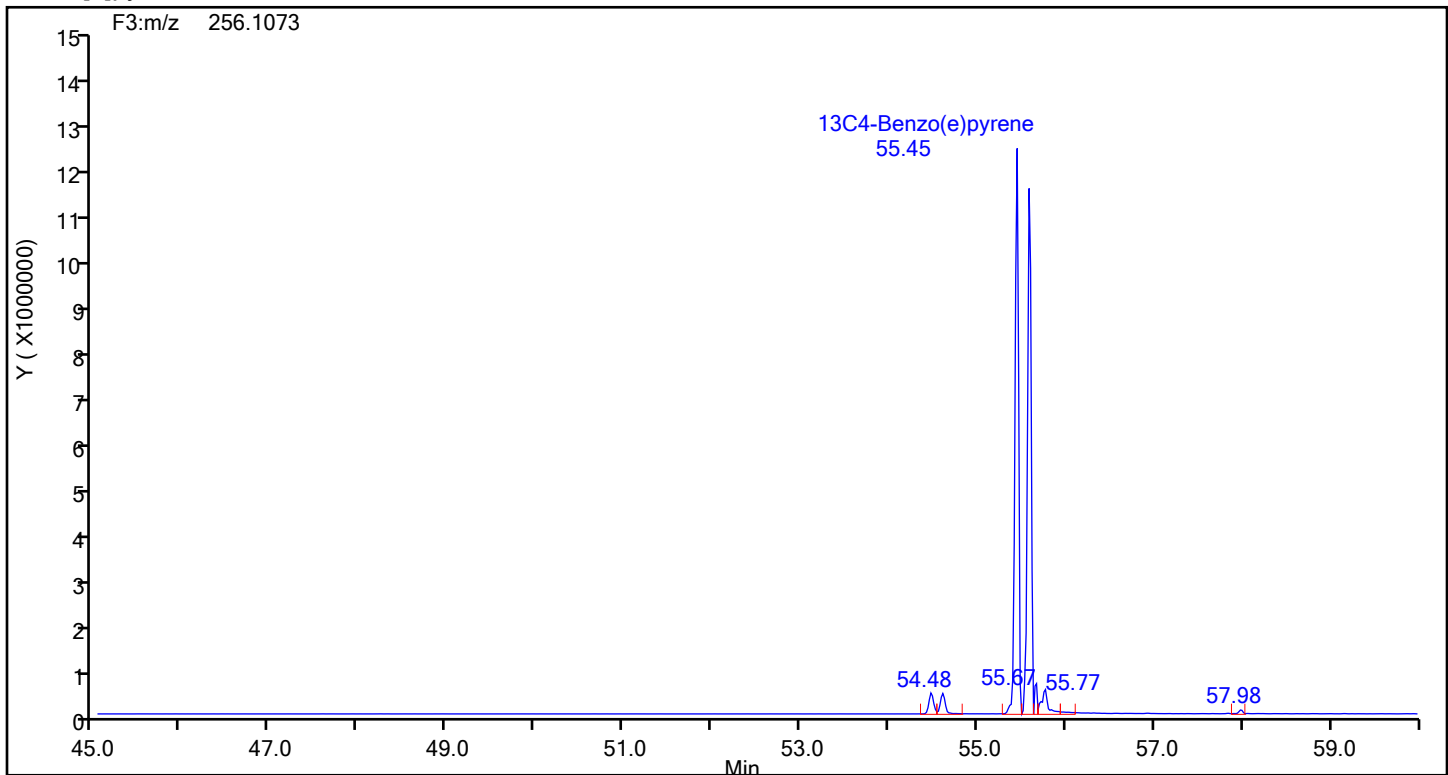
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[e]pyrene



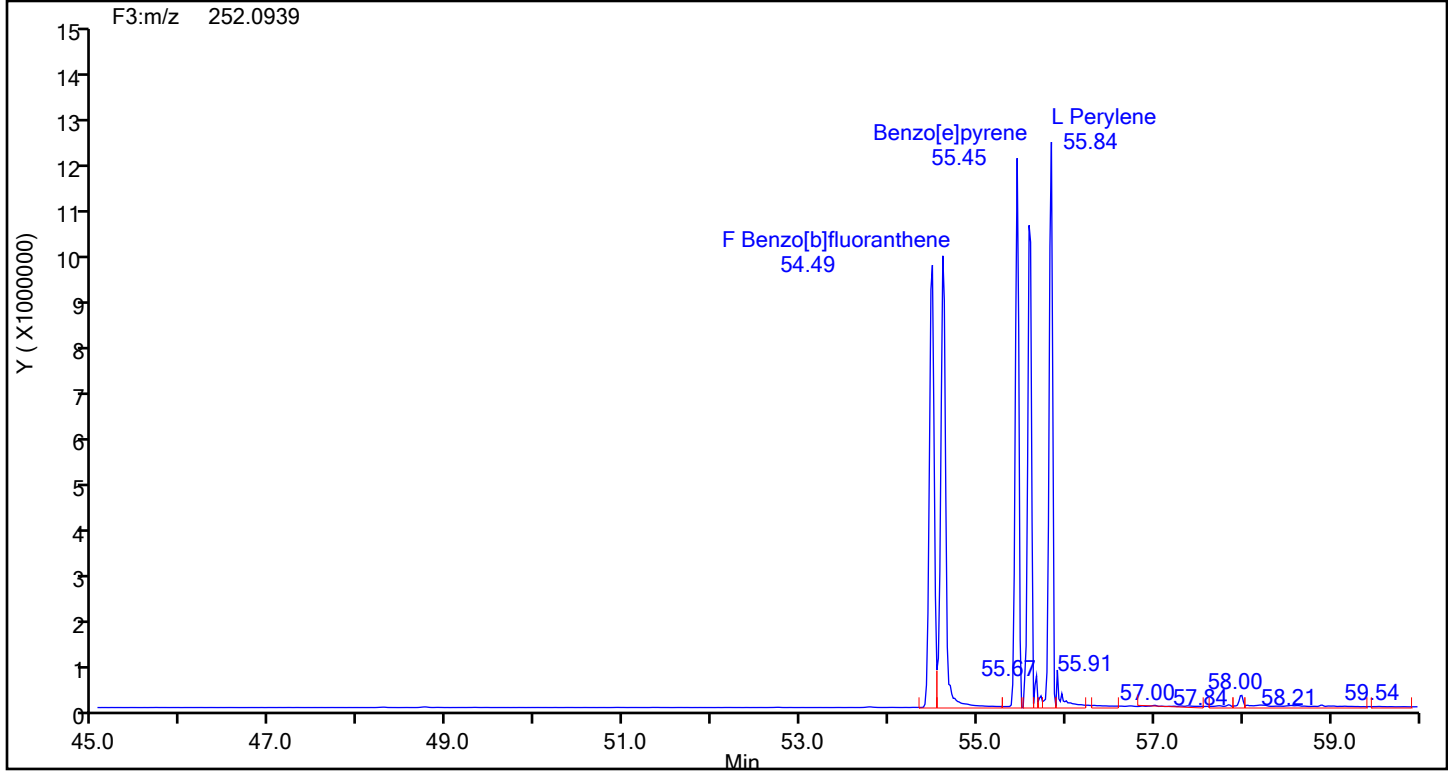
Benzo[e]pyrene Standards



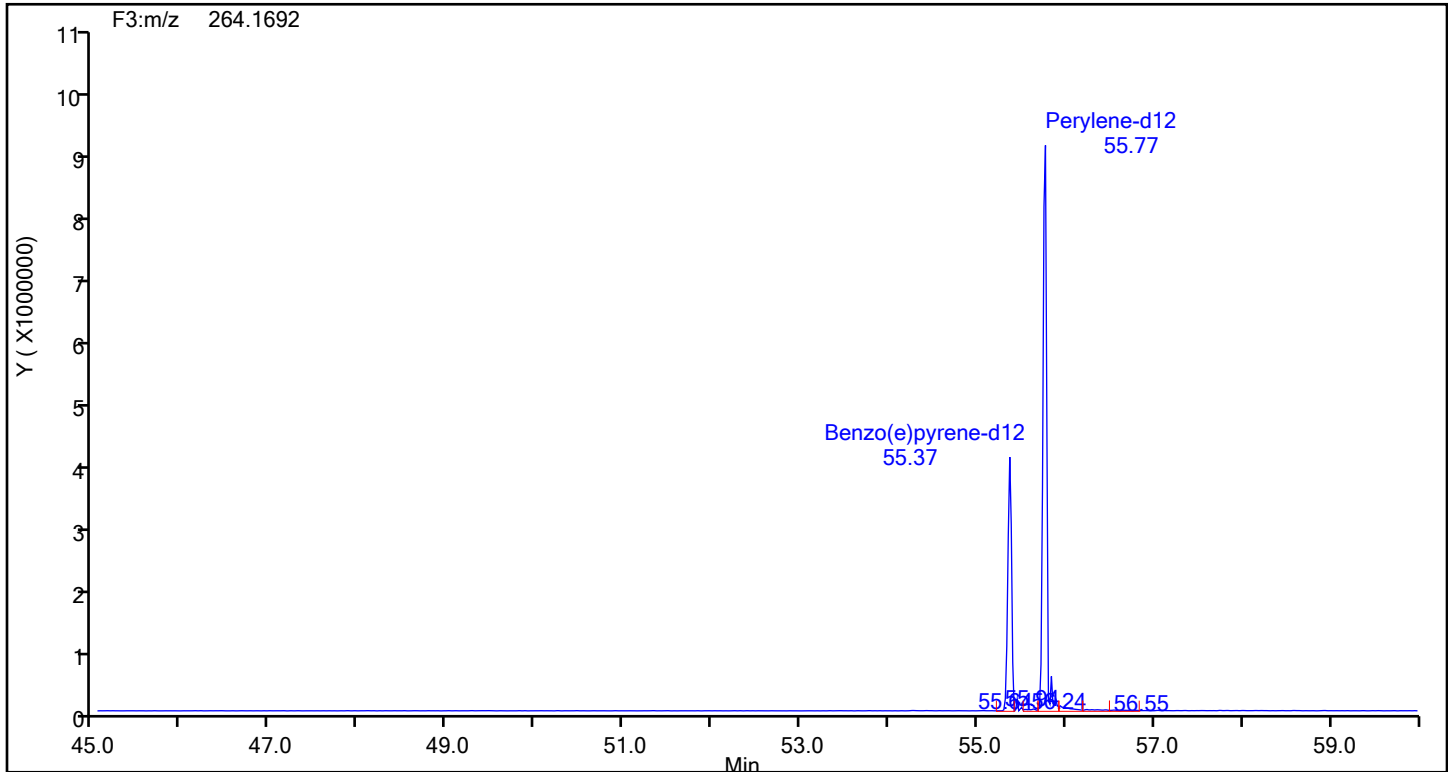
Eurofins Knoxville

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Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Perylene



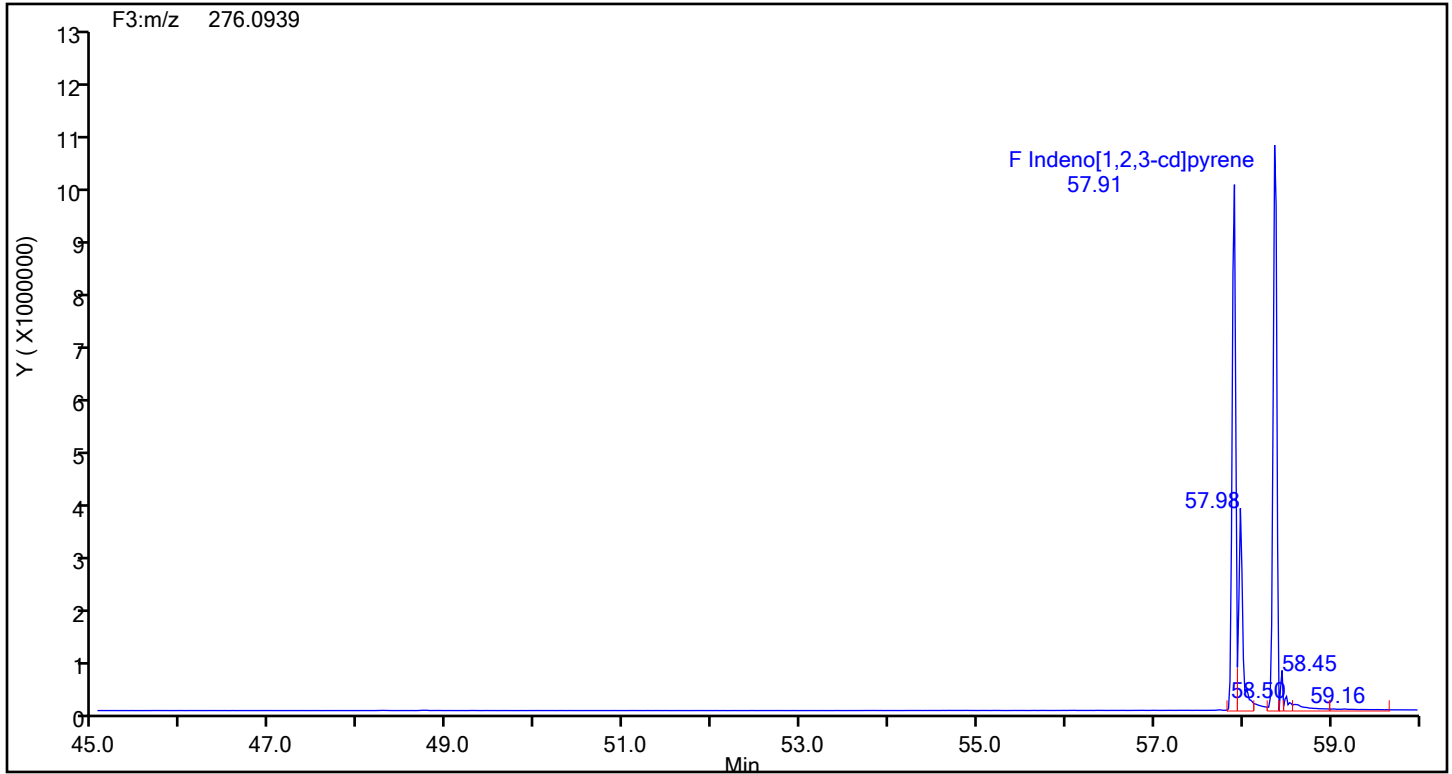
Perylene Standards



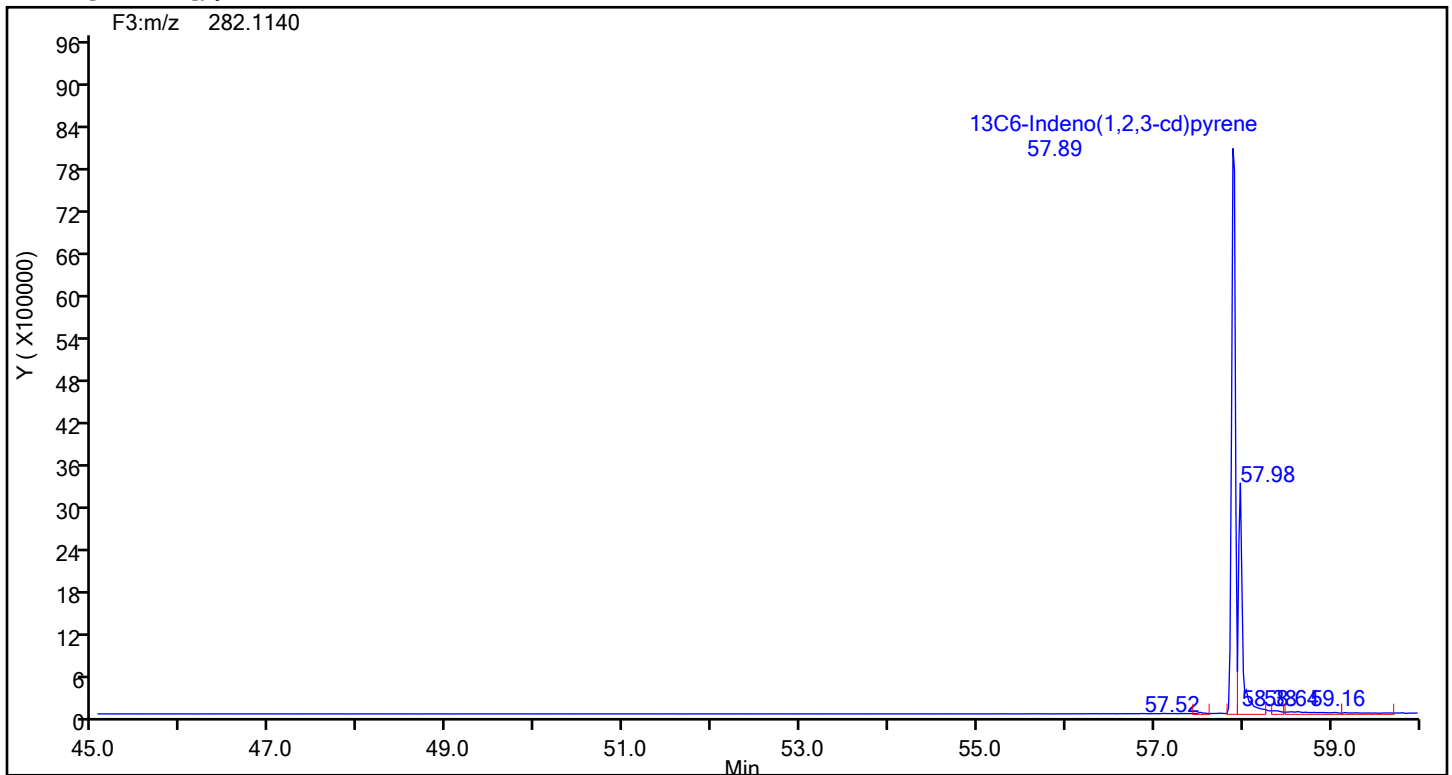
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



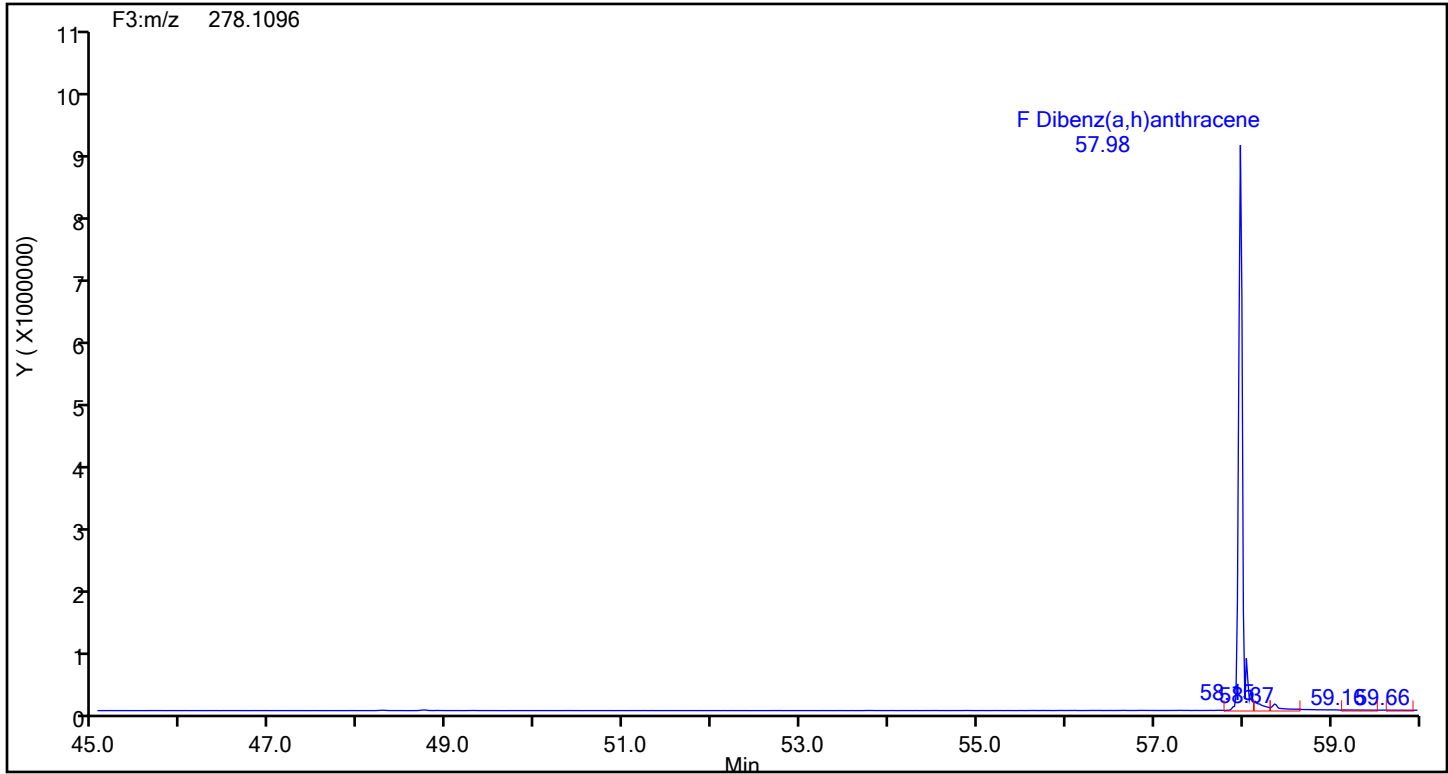
Indeno[1,2,3-cd]pyrene Standards



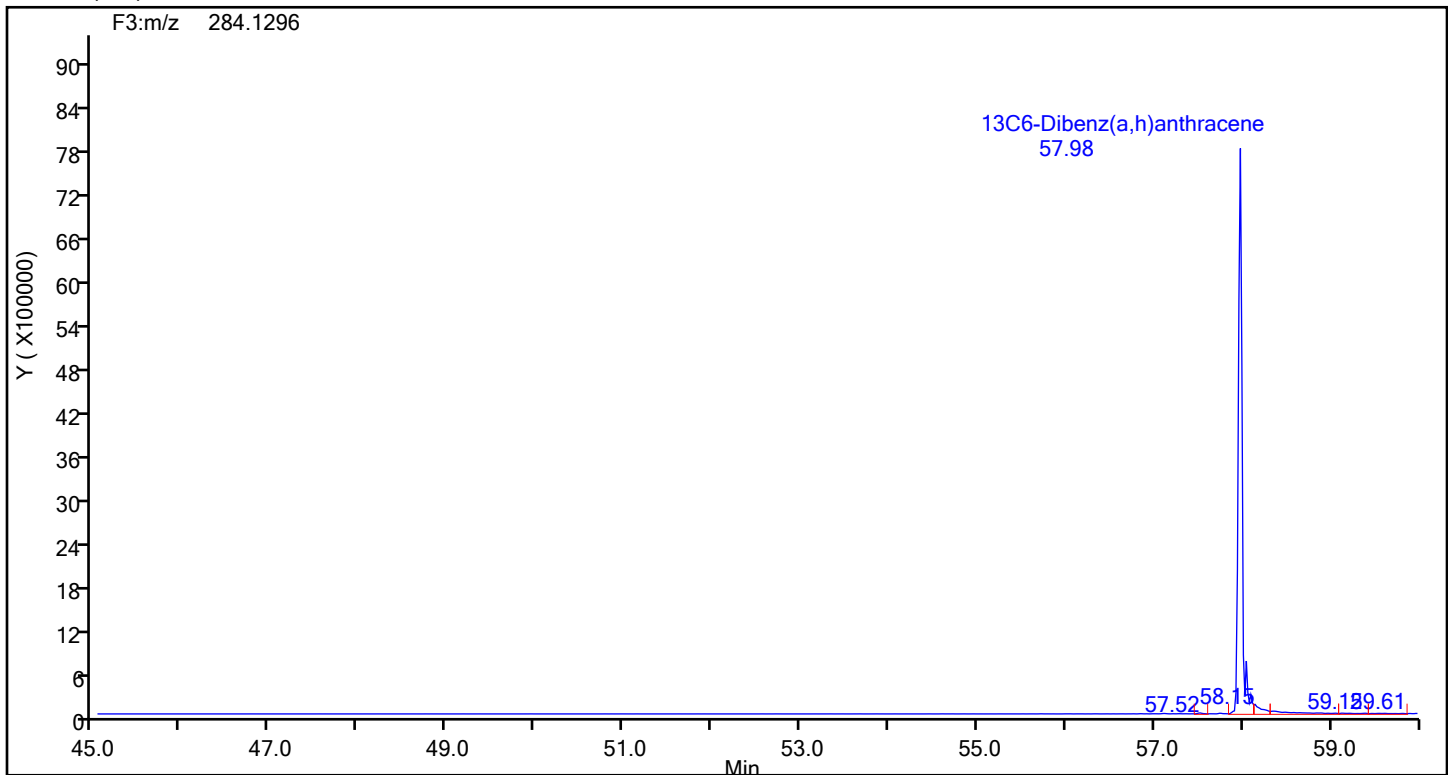
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Dibenz(a,h)anthracene



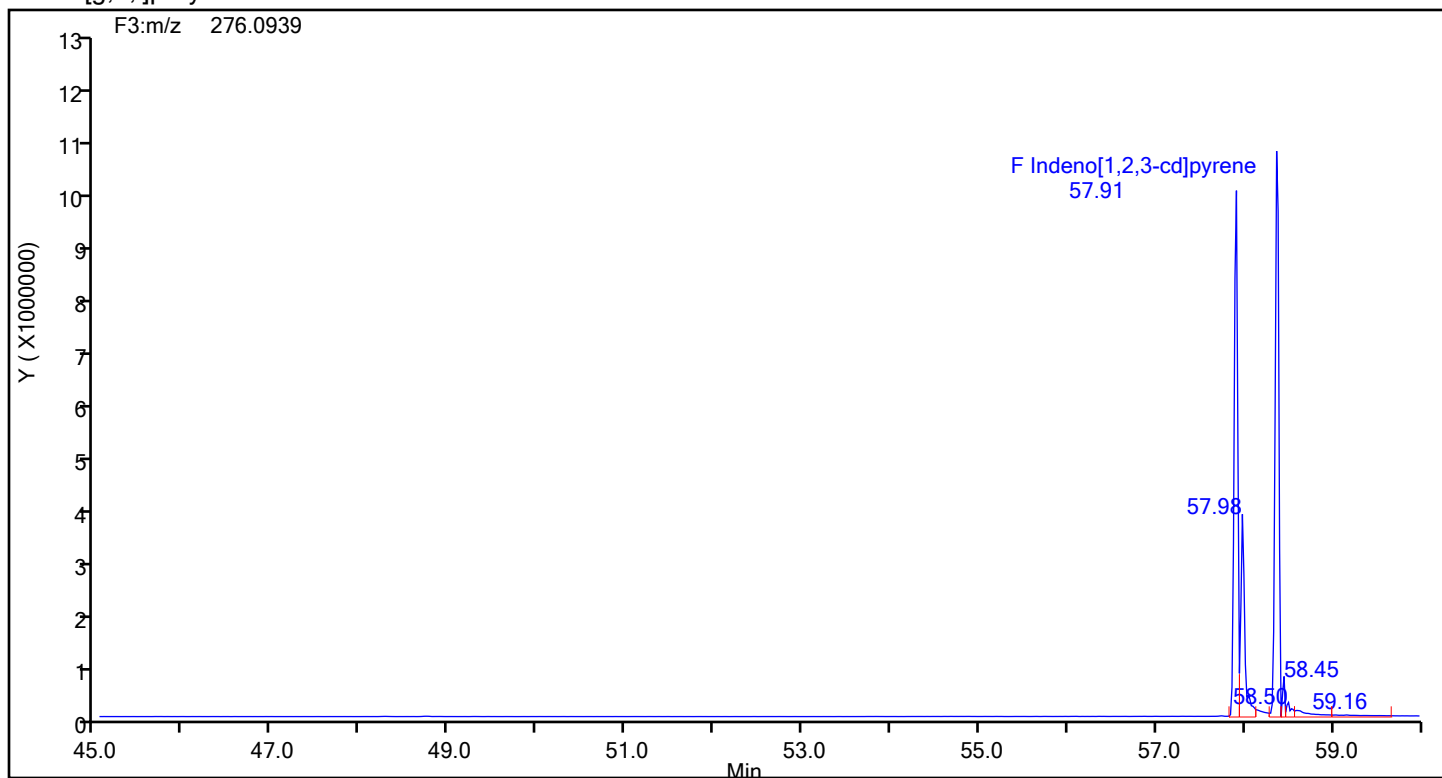
Dibenz(a,h)anthracene Standards



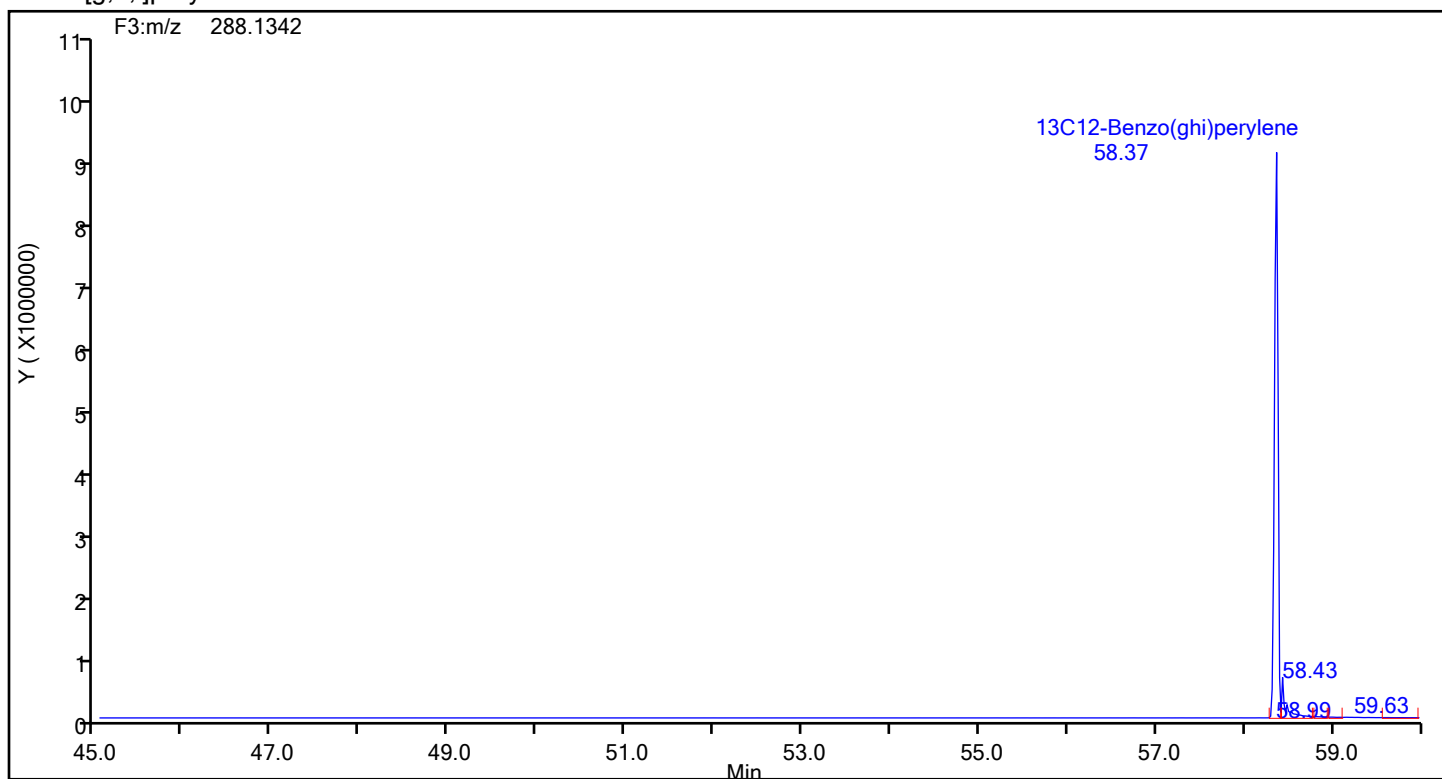
Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33564.b\lcsd140-8819220-b.d
Injection Date: 18-Jul-2024 13:28:00 Injection Vol: 1.0 ul
Instrument ID: D3PAH Operator ID: Xcalibur_System
Method: EPA_23__PAH Limit Group: HR - HRPAAH ICAL
Client ID:
Worklist#: 88920 Sample Line#: 3
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 06/19/2024 16:34

Analysis Batch Number: 87843 End Date: 06/20/2024 02:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87843/1		06/19/2024 16:34	1	d3240619ic1.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/2		06/19/2024 17:38	1	d3240619ic2.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/3		06/19/2024 18:42	1	d3240619ic3.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/4		06/19/2024 19:47	1	d3240619ic4.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/5		06/19/2024 20:51	1	d3240619ic5.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/6		06/19/2024 21:56	1	d3240619ic6.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/7		06/19/2024 23:00	1	d3240619ic7.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/8		06/20/2024 00:04	1	d3240619ic8.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/9		06/20/2024 01:09	1	d3240619ic9.d	Rxi-5SilMS 25 0.25 (mm)
ICV 140-87843/10		06/20/2024 02:46	1	d3240619icv.d	Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: 1699 by KNOX-ID-0019, -Rev. 0

11RPAH

Instrument:	D3PAH		1699 Pesticide
Analysis Date:	4/20/24	TALS Batch / Event #	82843 / 5149
Mass Res Check Time:	11:18		/
Chrom WL#:	33168		/

Chrom Worklist/Peak Review	1 st	Comments/NCM#	2 nd
1.Re-read each limit group in the Chrom method.	✓		
2.Are the reagents & init./final vol. correct?	✓		/
3.First levels "unlock/clear" or "unlock/clear by sublist" as appropriate?	✓		/
4.Are the Cal Levels & groups correct in WL?	✓		/
5.Was the mass resolution documented at the beginning of the initial calibration?	✓		/
6.Was the instrument resolution 8,000 >10000 throughout the FC43?	✓		/
7.Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		/
8.Have the ICAL mixes 1-9 been analyzed using the installed column to assign method retention times and MID switch points?	✓		/
9.Are the calibration standard solutions at the concentrations specified in the SOP?	✓	x in development	/
10.At least 5 points used in the calibration (6 for quadratic)?			/
11.Does the lowest active point support the RL?	✗	NA in development	/
12.Was the absolute retention time for Methoxychlor greater than 39 minutes in the CSS standard?	NA		/
13.Were all standards injected within 12 hours of the time of the mass resolution check?	✓		/
14.Was the ICAL high point standard checked for saturation?	✓		/
15.Is the S/N for all labeled analytes $\geq 10:1$? Is the S/N for targets \geq the RL $\geq 6:1$? Is the S/N for targets $<$ RL $\geq 3:1$?	✓		/
16.Are the ion abundance ratios for all native and labeled compounds within the limits?	NA	single im	/
17.If manual integrations were performed, are they appropriate with proper reason given?	✓		/
18.Was the Endrin and 4,4'-DDT breakdown check analyzed after the ICAL and breakdown less than 20%?	NA		/

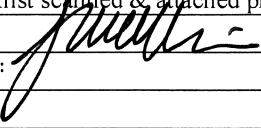
Chrom MLG Review	1 st	Comments/NCM#	2 nd
19.Are ICAL start/end dates/times correct on summary?	✓		/
20.Is the % RSD acceptable (within 35% 20%) for all labeled standards?	✓		/
21.Is the % RSD acceptable for all native analytes (within 20% calculated by IDAs, and within 35% 10% when not calculated by IDAs)?	✓		/
22.Is the readback for each point within criteria? ($\leq 30\%$ for all points $>$ RL, $\leq 50\%$ for points at RL and lower)	✓		/
23.Was an ICV analyzed and meet the limits according the SOP?	✓		/
24.Is low level standard at or below RL?	NA	x in development	/
25.Lock the Chrom method and upload ICAL & ICV.	✓		/

Continued on next page

Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: ~~1699~~ by ~~KNOX-ID-0019~~, Rev. 0

HRPAH

TALS MLG Review		1 st	Comments	2 nd
26. Graphics uploaded?		✓		✓
27. All points are in the most recent active calibration event #?		✓		✓
28. Verify the reagents have not expired.		✓		✓
29. Was the mass resolution check AND breakdown check scanned and attached?		✓		✓
30. If criteria not met, was a NCM generated?		NA		✓
31. After review in TALS, approve the calibration in TALS		✓		✓
32. Checklist scanned & attached properly?		-N/A-		✓
1 st Level	Date: 6/20/24	2 nd Level	Date: 6-20-24	
Comments: 		Comments:		

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 07/18/2024 10:51

Analysis Batch Number: 88920 End Date: 07/18/2024 16:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88920/1		07/18/2024 10:51	1	d3240718c1a.d	Rxi-5SilMS 25 0.25 (mm)
LCS 140-88192/19-B		07/18/2024 12:24	1	lcs140-8819219-b.d	Rxi-5SilMS 25 0.25 (mm)
LCSD 140-88192/20-B		07/18/2024 13:28	1	lcsd140-8819220-b.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/18/2024 16:26	1		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

Instrument:	D3PAH	Start mass Res:	10:29
Analysis Date:	7/6/24	End Mass Res:	21:24
Chrom WL #:	33564	ICAL Chrom WL #:	33168
TALS Batch #:	88920	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d3240718c1a		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓		✓
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	NA	Only used for LCS/LCSD	NA
3. Are all target analytes in the method blank < RL	NA	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	NA
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	NA	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	NA
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input checked="" type="checkbox"/> LCS/D-Insuff smp (NCM# 52533) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	N/A	<input type="checkbox"/> (NCM# _____)	N/A
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	N/A	<input type="checkbox"/> Dilution-Respoke IDA (NCM# _____)	N/A
17. Suffixes assigned properly when needed (DL/RE)?	N/A		N/A
18. Samples not reported set to "Acceptable" or "Rejected"	N/A		N/A
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?	✓		✓

1 st level: map	Date 7-19-24	2 nd level: MAC by map	Date 7-21-24
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 07/18/2024 21:47

Analysis Batch Number: 88945 End Date: 07/19/2024 07:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88945/1		07/18/2024 21:47	1	d3240718c2a_20240718214503.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/18/2024 23:41	1		Rxi-5SilMS 25 0.25 (mm)
MB 140-88192/21-B		07/19/2024 00:57	1	mb140-8819221-b_20240719005604.d	Rxi-5SilMS 25 0.25 (mm)
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	07/19/2024 02:02	10	140-37232-a-1-c.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 03:06	20		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 04:10	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 05:15	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 06:19	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 07:23	1		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

Instrument:	D3PAH 7-18-24	Start mass Res:	21:24
Analysis Date:	7-18-24	End Mass Res:	09:06
Chrom WL #:	33572	ICAL Chrom WL #:	33168
TALS Batch #:	88945	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d3240718c2a		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?			✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓		✓
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓N	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input checked="" type="checkbox"/> MB-insuff samp (NCM# 57534)	✓N
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method EPA-23-PAH *SOP IN PROGRESS*

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓ N	<input checked="" type="checkbox"/> IDA – High (1) no effect (NCM# <u>51535</u>) Samples <u>6, 8, 9, 10</u> Samples <u>11</u> <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____	✓ N
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	N/A	<input type="checkbox"/> (NCM# _____)	N/A
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	N/A	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	N/A
17. Suffixes assigned properly when needed (DL/RE)?	N/A		N/A
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?			✓

1 st level: <u>MAC by mcl</u>	Date <u>7-21-24</u>	2 nd level: <u>mcl</u>	Date <u>7-21-24</u>
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 07/19/2024 11:10

Analysis Batch Number: 88978 End Date: 07/19/2024 20:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88978/1		07/19/2024 11:10	1	d3240719c1a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 13:38	1		Rxi-5SilMS 25 0.25 (mm)
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	07/19/2024 15:05	1	140-37232-b-14- c_2024071915040 9.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 16:10	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 17:18	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 18:22	10		Rxi-5SilMS 25 0.25 (mm)
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	07/19/2024 19:27	10	140-37232-a-3-c .d	Rxi-5SilMS 25 0.25 (mm)
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	07/19/2024 20:31	10	140-37232-a-4-c .d	Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

Instrument:	D3PAH	Start mass Res:	10:54
Analysis Date:	7/19/24	End Mass Res:	21:53
Chrom WL #:	33585	ICAL Chrom WL #:	33168
TALS Batch #:	88978	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d/3240719c1a		

CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?			✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabelled analytes within their respective RRT limits?	✓		✓
13. Are % D within $\pm 30\%$ for all labeled IDA's?	✓		✓
14. Are % D within $\pm 25\%$ for all natives?	✓		✓

<i>Batch Chrom/TALS review</i>	<i>1st</i>	<i>Comments/NCM #</i>	<i>2nd</i>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input checked="" type="checkbox"/> IDA – Low - S/N 10:1 (NCM# <u>57531</u>) <div style="text-align: right;">30x 7/20/24</div>	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	N	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input checked="" type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# <u>57531</u>) Samples _____ Samples _____ <u>140-36741-2</u> _____ <u>140-36741-3</u> _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	NO	<input checked="" type="checkbox"/> Holding Time-Initial Analysis (NCM# <u>57532</u>) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
17. Suffixes assigned properly when needed (DL/RE)?	✓		✓
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?	✓		✓
1 st level: <u>MAC by BLK</u>	Date	2 nd level: <u>[Signature]</u>	Date <u>7/21/24</u>
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D3PAH Start Date: 07/20/2024 02:03

Analysis Batch Number: 88999 End Date: 07/20/2024 11:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88999/1		07/20/2024 02:03	1	d3240720c1a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/20/2024 04:05	1		Rxi-5SilMS 25 0.25 (mm)
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	07/20/2024 05:09	10	140-37232-a-2-c .d	Rxi-5SilMS 25 0.25 (mm)
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	07/20/2024 06:13	10	140-37232-a-5-c .d	Rxi-5SilMS 25 0.25 (mm)
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	07/20/2024 07:18	10	140-37232-a-6-c .d	Rxi-5SilMS 25 0.25 (mm)
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	07/20/2024 08:22	10	140-37232-a-7-c .d	Rxi-5SilMS 25 0.25 (mm)
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	07/20/2024 09:27	10	140-37232-a-8-c .d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/20/2024 10:31	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/20/2024 11:35	10		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

Instrument:	D3 PAH	Start mass Res:	1:40
Analysis Date:	7-20-24	End Mass Res:	12:39
Chrom WL #:	33591	ICAL Chrom WL #:	33168
TALS Batch #:	88999	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	13240720C1a		

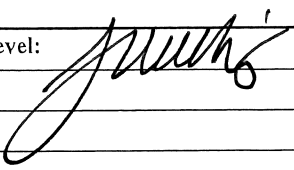
CCV Chrom/Worklist Review	1 st	Comments/NCM #	2 nd
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within $\pm 30\%$ for all labeled IDA's?	No	13CG-Indeno(1,2,3-cd)pyrene and	✓
14. Are % D within $\pm 25\%$ for all natives?	✓	13CG-Dibenz(a,h)anthracene outside 30% ; Natives within limits. NCM# 57414	✓

Batch Chrom/TALS review	1 st	Comments/NCM #	2 nd
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist
Method EPA-23-PAH *SOP IN PROGRESS*

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	N	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input checked="" type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# <u>57536</u>) Samples _____ Samples _____ <u>140-37232-2,5,6,7,8</u> <u>140-37234-1,2</u> _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM# 140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
17. Suffixes assigned properly when needed (DL/RE)?	✓		✓
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?	✓		✓

1 st level: <u>MAC by BKK</u>	Date: <u>7/20/24</u>	2 nd level: 	Date: <u>7/21/24</u>
Comments:			

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 87843 Batch Start Date: 06/19/24 16:34 Batch Analyst: Nordquist, Jon M

Batch Method: 23 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS1 00002	61HRPAHCS2 00002	61HRPAHCS3 00003	61HRPAHCS4 00002	61HRPAHCS4a 00002	61HRPAHCS5 00002
IC 140-87843/1		23			20 uL					
IC 140-87843/2		23				20 uL				
IC 140-87843/3		23					20 uL			
IC 140-87843/4		23						20 uL		
IC 140-87843/5		23							20 uL	
IC 140-87843/6		23								20 uL
IC 140-87843/7		23								
IC 140-87843/8		23								
IC 140-87843/9		23								
ICV 140-87843/10		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS5a 00002	61HRPAHCS6 00002	61HRPAHCS7 00002	61HRPAHICVW 00003		
IC 140-87843/1		23								
IC 140-87843/2		23								
IC 140-87843/3		23								
IC 140-87843/4		23								
IC 140-87843/5		23								
IC 140-87843/6		23								
IC 140-87843/7		23			20 uL					
IC 140-87843/8		23				20 uL				
IC 140-87843/9		23					20 uL			
ICV 140-87843/10		23						20 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88192 Batch Start Date: 06/27/24 14:06 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-37232-A-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Combined Prep, Split, 23	Air	T	1429.6 g	509.9 g	919.7 mL	919.7 mL	919.7 mL	1 Sample
140-37232-A-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Combined Prep, Split, 23	Air	T	1364.4 g	510.3 g	854.1 mL	854.1 mL	854.1 mL	1 Sample
140-37232-A-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Combined Prep, Split, 23	Air	T	1468.2 g	509.7 g	958.5 mL	958.5 mL	958.5 mL	1 Sample
140-37232-A-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Combined Prep, Split, 23	Air	T	1395.1 g	511.2 g	883.9 mL	883.9 mL	883.9 mL	1 Sample
140-37232-A-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Combined Prep, Split, 23	Air	T	1424.4 g	510.4 g	914 mL	914 mL	914 mL	1 Sample
140-37232-A-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Combined Prep, Split, 23	Air	T	1414.3 g	511.3 g	903 mL	903 mL	903 mL	1 Sample
140-37232-A-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Combined Prep, Split, 23	Air	T	1425.2 g	510.2 g	915 mL	915 mL	915 mL	1 Sample
140-37232-A-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Combined Prep, Split, 23	Air	T	586.9 g	265.0 g	321.9 mL	321.9 mL	321.9 mL	1 Sample
140-37232-B-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-88192/19		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-88192/20		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88192 Batch Start Date: 06/27/24 14:06 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
MB 140-88192/21		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00003	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00005	
140-37232-A-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-A-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	300 uL	
140-37232-B-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T	30 mL	3 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88192 Batch Start Date: 06/27/24 14:06 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00003	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00005	
LCS 140-88192/19		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
LCSD 140-88192/20		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
MB 140-88192/21		Combined Prep, Split, 23			30 mL	3 mL				

Batch Notes	
MeCL2 ID	241700
Na2SO4 ID	692772
Sulfuric Acid ID	682487
Hexane ID	241438
Analyst ID - TA Reagent Drop	ss
Analyst ID - IDA Reagent Drop	ss
Analyst ID - TA Reagent Drop Witness	dm
Analyst ID - IDA Reagent Drop Witness	dm
Analyst ID - Extraction	ss
Extraction 1 Start Time	15:30
First Extraction Start Date	06/28/2024
Extraction 1 End Time	09:11
First Extraction End Date	06/29/2024 09:11
Analyst ID - Concentration	ss
Concentration Date	07/01/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88337 Batch Start Date: 07/02/24 10:15 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 07/16/24 12:18

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	HRPAH_REC_WK 00001	AnalysisComment		
140-37232-A-1-A	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-2-A	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-3-A	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL	Sample concentrated slowly on N-Evap before and during final concentration.		
140-37232-A-4-A	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-5-A	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-6-A	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-7-A	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-A-8-A	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-37232-B-14-A	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Split, 23	Air	T	10 mL	500 uL	500 uL			
LCS 140-88192/19-A		Split, 23			10 mL	500 uL	500 uL			
LCSD 140-88192/20-A		Split, 23			10 mL	500 uL	500 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88337 Batch Start Date: 07/02/24 10:15 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 07/16/24 12:18

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	HRPAH_REC_WK 00001	AnalysisCommen t		
MB 140-88192/21-A		Split, 23			10 mL	500 uL	500 uL			

Batch Notes	
Analyst ID - Concentration	cas
Silica Gel ID	707020
Na2SO4 ID	692772
Hexane ID	241348
40% DCM:Hexane ID	697600
Analyst ID - IS Reagent Drop	caa
Analyst ID - IS Reagent Drop Witness	caa
Batch Comment	Archived samples used, see NCMs.

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Eurofins Knoxville Extraction Sheet
EPA M23 PAH Combined Air Train - KNOX-OP-0010

Batch Number: 88192
Split Batch Number: 88237
TALS Prep Chain: Comb_HRMS_Prep → Split_SA_HRPAH

Delivered: PKG 7/10/24
initials/date/time

Received: _____
initials/date/time

3:10pm

Lab Sample ID	Add 100 µL of 50 ng/mL pre-extraction filter standard (PEFRS) to filters in petri dish	Place XAD and particulate filter sample in a med Soxhlet.	Add 1.0 mL of 50 ng/mL IS (IDA) to all samples & QC. Record in TALS.	Add 1.0 mL of 50 ng/mL native spike (TA) to LCS/LCSD. Record in TALS.	Extract 16 hr with MeCl ₂ .	Note in TALS sample comment if FH/BH solvent rinse lost volume during shipment.	Perform condensate extraction and concentration as needed.	Concentrate and add FH/BH rinse to extract. Exchange to hexane. Bring to ~20 mL.	Create Split Batch in TALS. Split samples if needed.	Concentrate on N-EVAP to ~8-10 mL for silica gel column cleanup.	Perform silica gel column cleanup.	Concentrate to ~20 mL	Concentrate on N-EVAP to ≤1 mL for GPC	Perform GPC cleanup.	Concentrate/exchange to ~2 to 4 mL hexane.	Concentrate to ~1 mL on N-EVAP.	Add 500 µL of 50 ng/mL recovery std (IS) to mini-vial. Record in TALS. Transfer extract to vial.	Conc to 500 µL final volume in iso-octane. Record final volume in TALS.
140-37232-A-1	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-2	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-3	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-4	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-5	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-6	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-7	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-A-8	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37232-B-14	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-1	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-2	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-3	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-4	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-5	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-6	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-7	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-A-8	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
140-37234-B-14	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
LCS 140-88192/19	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
LCSD 140-88192/20	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓
LCSD 140-88192/21	✓	✓	3.0	NA	✓	NA	✓	✓	✓	✓	✓	✓	NA	NA	NA	✓	✓	✓

OP155r0 052024 EPA M23 PAH Combined Air Train Page 1 (TALS) Printed: 6/27/2024 2:18 PM

Eurofins Knoxville Prep Batch Review Checklist

Batch # 88192
Split Batch # 88337

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?		✓			✓
3. Were all project specific requirements met?		✓			✓
4. Were the correct start and completion dates entered into TALS?		✓			✓
5. Are the spike IDs and volumes correct in TALS for the method?		✓			✓
6. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> Extraction Benchsheet (Excel) Batch Worksheets (ANLY) Verify Protocol #'s (compare excel sheet to TALS) Was the Excel Extraction Benchsheet and Prep Batch Review Checklist scanned and attached to batch in TALS? 		✓			✓
7. Did extracts go through GPC cleanup? Has the following nonconformance been associated with all extracts?	✓	CAA ✓		7/16/24 If Yes, <input type="checkbox"/> Clean-up Required - GPC (NCM# _____)	✓
8. Are all additional nonconformances documented appropriately?		✓		140-57267 If Yes, NCM#: <u>140-57229</u>	✓
Analyst : <u>CAA</u> Date: <u>7/16/24</u>					
Comments:					
2nd Level Reviewer: <u>RKG</u> Date: <u>7/16/24</u>					
Comments:					

Method 23 Revised (PCBs)

Chlorinated Biphenyl Congeners
(Stationary Source) by HRGC/HRMS

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
	LCS 140-88193/19-B	74	73	72	68	71	78	67	74
	LCSD 140-88193/20-B	67	70	65	66	69	75	66	72

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB19L = PCB-19L
PCB15L = PCB-15L
PCB54L = PCB-54L
PCB28L = PCB-28L
PCB104L = PCB-104L

QC LIMITS

15-145
15-145
15-145
15-145
15-145
15-145
15-145
15-145
40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB188L #
	LCS 140-88193/19-B	73	74	78	79	72	79	81	77
	LCSD 140-88193/20-B	72	70	77	78	69	76	77	73

	<u>QC LIMITS</u>
PCB37L = PCB-37L	15-145
PCB155L = PCB-155L	40-145
PCB81L = PCB-81L	40-145
PCB77L = PCB-77L	40-145
PCB111L = PCB-111L	40-145
PCB123L = PCB-123L	40-145
PCB118L = PCB-118L	40-145
PCB188L = PCB-188L	40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB114L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
	LCS 140-88193/19-B	80	85	70	84	79	83	86 C	86 C ¹⁵ ₆
	LCSD 140-88193/20-B	77	82	68	84	76	81	84 C	84 C ¹⁵ ₆

	QC LIMITS
PCB114L = PCB-114L	40-145
PCB105L = PCB-105L	40-145
PCB178L = PCB-178L	40-145
PCB126L = PCB-126L	40-145
PCB202L = PCB-202L	40-145
PCB167L = PCB-167L	40-145
PCB156L = PCB-156L	40-145
PCB157L = PCB-157L	40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
	LCS 140-88193/19-B	86	86	86	86	86	88	96
	LCSD 140-88193/20-B	83	86	83	82	81	87	94

	QC LIMITS
PCB170L = PCB-170L	40-145
PCB169L = PCB-169L	40-145
PCB208L = PCB-208L	40-145
PCB189L = PCB-189L	40-145
PCB205L = PCB-205L	40-145
PCB206L = PCB-206L	40-145
PCB209L = PCB-209L	40-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	140-37232-14	77	73	74	71	74	80	72	76
	MB 140-88193/21-B	69	76	66	69	72	80	72	80

	<u>QC LIMITS</u>
PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130
PCB104L = PCB-104L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB188L #
A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	140-37232-14	75	76	79	82	74	80	81	78
	MB 140-88193/21-B	75	77	80	80	73	82	83	80

	QC LIMITS
PCB37L = PCB-37L	20-145
PCB155L = PCB-155L	20-145
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130
PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB188L = PCB-188L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB114L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	140-37232-14	80	84	75	87	80	86	89 C	89 C15 6
	MB 140-88193/21-B	82	87	75	88	81	83	88 C	88 C15 6

	<u>QC LIMITS</u>
PCB114L = PCB-114L	20-145
PCB105L = PCB-105L	20-145
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145
PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
A-2232,A-2233 M23 MEDIA CHECK XAD, FILTER	140-37232-14	89	91	85	87	89	96	106
	MB 140-88193/21-B	86	90	90	88	91	93	102

	QC LIMITS
PCB170L = PCB-170L	20-145
PCB169L = PCB-169L	20-145
PCB208L = PCB-208L	20-145
PCB189L = PCB-189L	20-145
PCB205L = PCB-205L	20-145
PCB206L = PCB-206L	20-145
PCB209L = PCB-209L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB8L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	61	73	70	99 S	77	72 S	94	75
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	61	66	67	114	71	73	82	69
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	58	67	68	98	76	72	95	73
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	52	63	61	99	68	73	88	70
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	59	68	70	97	76	77	94	74
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	56	64	64	101	71	75	90	72
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	55	64	64	100	71	70	89	72
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	59	69	69	100	75	75	95	75

QC LIMITS

PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB8L = PCB-8L	70-130
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB104L #	PCB37L #	PCB95L #	PCB155L #	PCB79L #	PCB81L #	PCB77L #	PCB111L #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	95	80	111	87	110	83	84	81
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	84	78	115	83	111	83	84	75
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	92	73	114	85	115	81	81	82
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	89	70	111	84	116	77	78	76
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	96	75	107	89	113	81	81	81
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	89	70	115	85	115	77	78	80
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	91	70	115	85	117	76	76	81
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	94	72	114	87	119	77	77	81

QC LIMITS

PCB104L = PCB-104L	20-145
PCB37L = PCB-37L	20-145
PCB95L = PCB-95L	70-130
PCB155L = PCB-155L	20-145
PCB79L = PCB-79L	70-130
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB123L #	PCB118L #	PCB188L #	PCB114L #	PCB105L #	PCB153L #	PCB178L #	PCB126L #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	95	92	93	100	100	91	78	99
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	86	88	89	89	92	97	77	90
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	91	88	93	95	98	101	77	91
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	89	87	98	95	94	100	78	91
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	94	95	102	107	98	95	78	96
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	88	88	97	97	95	100	82	92
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	89	89	98	98	92	100	82	88
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	92	93	100	100	93	104	84	94

QC LIMITS

PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB188L = PCB-188L	20-145
PCB114L = PCB-114L	20-145
PCB105L = PCB-105L	20-145
PCB153L = PCB-153L	70-130
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB202L #	PCB167L #	PCB156L #	PCB157L #	PCB170L #	PCB169L #	PCB208L #	PCB189L #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	89	86	94	C 94 C15 6	96	91	95	97
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	89	88	93	C 93 C15 6	92	92	90	90
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	87	87	95	C 95 C15 6	92	88	93	93
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	90	83	92	C 92 C15 6	91	85	93	90
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	93	92	106	C 106 C15 6	95	95	100	98
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	90	88	96	C 96 C15 6	92	88	93	93
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	87	87	98	C 98 C15 6	91	89	93	93
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	89	87	97	C 97 C15 6	92	90	94	94

QC LIMITS

PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145
PCB170L = PCB-170L	20-145
PCB169L = PCB-169L	20-145
PCB208L = PCB-208L	20-145
PCB189L = PCB-189L	20-145

Column to be used to flag recovery values

FORM II
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB205L #	PCB206L #	PCB209L #
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	97	96	97
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	91	97	107
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	93	96	106
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	93	96	104
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	98	103	113
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	95	98	109
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	91	95	104
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	96	100	111

	<u>QC LIMITS</u>
PCB205L = PCB-205L	20-145
PCB206L = PCB-206L	20-145
PCB209L = PCB-209L	20-145

Column to be used to flag recovery values

FORM III
HI-RES PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcs140-8819319-b.d
 Lab ID: LCS 140-88193/19-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
PCB-1	15.0	14.32	95	60-135	
PCB-3	15.0	14.23	95	60-135	
PCB-4	15.0	14.09	94	60-135	
PCB-15	15.0	14.44	96	60-135	
PCB-19	15.0	13.56	90	60-135	
PCB-37	15.0	13.98	93	60-135	
PCB-54	15.0	14.30	95	60-135	
PCB-77	15.0	13.34	89	60-135	
PCB-81	15.0	13.65	91	60-135	
PCB-104	15.0	13.97	93	60-135	
PCB-105	15.0	14.04	94	60-135	
PCB-114	15.0	13.87	92	60-135	
PCB-118	15.0	13.37	89	60-135	
PCB-123	15.0	14.01	93	60-135	
PCB-126	15.0	14.13	94	60-135	
PCB-155	15.0	14.46	96	60-135	
PCB-156	30.0	28.29	94	60-135	C
PCB-157	30.0	28.29	94	60-135	C156
PCB-167	15.0	13.90	93	60-135	
PCB-169	15.0	14.12	94	60-135	
PCB-188	15.0	13.94	93	60-135	
PCB-189	15.0	14.59	97	60-135	
PCB-202	15.0	14.63	98	60-135	
PCB-205	15.0	13.81	92	60-135	
PCB-206	15.0	13.02	87	60-135	
PCB-208	15.0	14.06	94	60-135	
PCB-209	15.0	14.30	95	60-135	
PCB-1L	30.0	22.06	74	15-145	
PCB-3L	30.0	21.96	73	15-145	
PCB-4L	30.0	21.46	72	15-145	
PCB-15L	30.0	21.35	71	15-145	
PCB-19L	30.0	20.44	68	15-145	
PCB-37L	30.0	22.01	73	15-145	
PCB-54L	30.0	23.29	78	15-145	
PCB-77L	30.0	23.75	79	40-145	
PCB-81L	30.0	23.34	78	40-145	
PCB-104L	30.0	22.25	74	40-145	
PCB-105L	30.0	25.50	85	40-145	
PCB-114L	30.0	23.99	80	40-145	
PCB-118L	30.0	24.21	81	40-145	
PCB-123L	30.0	23.57	79	40-145	
PCB-126L	30.0	25.18	84	40-145	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Matrix: Air Level: Low Lab File ID: lcs140-8819319-b.d
Lab ID: LCS 140-88193/19-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
PCB-155L	30.0	22.18	74	40-145	
PCB-156L	60.0	51.52	86	40-145	C
PCB-157L	60.0	51.52	86	40-145	C156
PCB-167L	30.0	24.77	83	40-145	
PCB-169L	30.0	25.88	86	40-145	
PCB-170L	30.0	25.67	86	40-145	
PCB-188L	30.0	23.09	77	40-145	
PCB-189L	30.0	25.72	86	40-145	
PCB-202L	30.0	23.66	79	40-145	
PCB-205L	30.0	25.92	86	40-145	
PCB-206L	30.0	26.38	88	40-145	
PCB-208L	30.0	25.89	86	40-145	
PCB-209L	30.0	28.72	96	40-145	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcsd140-8819320-b.d
 Lab ID: LCSD 140-88193/20-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1	15.0	14.27	95	0	50	60-135	
PCB-3	15.0	13.98	93	2	50	60-135	
PCB-4	15.0	14.30	95	1	50	60-135	
PCB-15	15.0	14.03	94	3	50	60-135	
PCB-19	15.0	13.45	90	1	50	60-135	
PCB-37	15.0	14.09	94	1	50	60-135	G
PCB-54	15.0	14.11	94	1	50	60-135	
PCB-77	15.0	13.57	90	2	50	60-135	
PCB-81	15.0	13.54	90	1	50	60-135	
PCB-104	15.0	14.24	95	2	50	60-135	
PCB-105	15.0	13.85	92	1	50	60-135	
PCB-114	15.0	13.99	93	1	50	60-135	
PCB-118	15.0	13.80	92	3	50	60-135	
PCB-123	15.0	13.15	88	6	50	60-135	
PCB-126	15.0	14.15	94	0	50	60-135	
PCB-155	15.0	14.74	98	2	50	60-135	
PCB-156	30.0	28.43	95	0	50	60-135	C
PCB-157	30.0	28.43	95	0	50	60-135	C156
PCB-167	15.0	13.86	92	0	50	60-135	
PCB-169	15.0	13.79	92	2	50	60-135	
PCB-188	15.0	13.59	91	3	50	60-135	
PCB-189	15.0	14.28	95	2	50	60-135	
PCB-202	15.0	14.79	99	1	50	60-135	
PCB-205	15.0	14.31	95	4	50	60-135	
PCB-206	15.0	13.16	88	1	50	60-135	
PCB-208	15.0	13.92	93	1	50	60-135	
PCB-209	15.0	14.25	95	0	50	60-135	
PCB-1L	30.0	19.95	67			15-145	
PCB-3L	30.0	21.07	70			15-145	
PCB-4L	30.0	19.57	65			15-145	
PCB-15L	30.0	20.69	69			15-145	
PCB-19L	30.0	19.74	66			15-145	
PCB-37L	30.0	21.55	72			15-145	
PCB-54L	30.0	22.54	75			15-145	
PCB-77L	30.0	23.45	78			40-145	
PCB-81L	30.0	23.13	77			40-145	
PCB-104L	30.0	21.46	72			40-145	
PCB-105L	30.0	24.53	82			40-145	
PCB-114L	30.0	23.15	77			40-145	
PCB-118L	30.0	23.06	77			40-145	
PCB-123L	30.0	22.76	76			40-145	
PCB-126L	30.0	25.25	84			40-145	

Column to be used to flag recovery and RPD values

FORM III
HI-RES PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: lcsd140-8819320-b.d
 Lab ID: LCSD 140-88193/20-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-155L	30.0	21.15	70			40-145	
PCB-156L	60.0	50.53	84			40-145	C
PCB-157L	60.0	50.53	84			40-145	C156
PCB-167L	30.0	24.27	81			40-145	
PCB-169L	30.0	25.68	86			40-145	
PCB-170L	30.0	24.86	83			40-145	
PCB-188L	30.0	21.91	73			40-145	
PCB-189L	30.0	24.63	82			40-145	
PCB-202L	30.0	22.93	76			40-145	
PCB-205L	30.0	24.36	81			40-145	
PCB-206L	30.0	26.17	87			40-145	
PCB-208L	30.0	24.85	83			40-145	
PCB-209L	30.0	28.18	94			40-145	

Column to be used to flag recovery and RPD values

FORM IV
HI-RES PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab File ID: mb140-8819321-b.d Lab Sample ID: MB 140-88193/21-B
Matrix: Air Date Extracted: 06/27/2024 14:35
Instrument ID: D2D Date Analyzed: 07/15/2024 16:31
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-88193/19-B	lcs140-8819319-b.d	07/15/2024 13:44
	LCSD 140-88193/20-B	lcsd140-8819320-b.d	07/15/2024 14:45
M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	140-37232-1	140-37232-a-1-d.d	07/15/2024 18:33
A-2232,A-2233 M23 MEDIA CHECK XAD, FILTER	140-37232-14	140-37232-b-14-d.d	07/16/2024 02:56
M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	140-37232-2	140-37232-a-2-d.d	07/16/2024 03:58
M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	140-37232-3	140-37232-a-3-d.d	07/16/2024 04:59
M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	140-37232-4	140-37232-a-4-d.d	07/16/2024 06:00
M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	140-37232-5	140-37232-a-5-d.d	07/16/2024 07:01
M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	140-37232-6	140-37232-a-6-d.d	07/16/2024 08:02
M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	140-37232-7	140-37232-a-7-d.d	07/16/2024 09:03
M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	140-37232-8	140-37232-a-8-d.d	07/16/2024 10:05

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 1 - COMBINED</u>	Lab Sample ID: <u>140-37232-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-1-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 15:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 18:33</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.584	J S	0.600	0.132	0.0199
37680-65-2	PCB-18	ND	C	0.600	0.285	0.0157
7012-37-5	PCB-28	2.77	C20 B	0.600	0.252	0.0174
41464-39-5	PCB-44	4.65	C B	0.900	0.390	0.0190
35693-99-3	PCB-52	1.33		0.300	0.132	0.0201
32598-10-0	PCB-66	1.42		0.300	0.120	0.0147
32598-13-3	PCB-77	0.145	J	0.300	0.126	0.0167
70362-50-4	PCB-81	ND		0.300	0.0960	0.0175
37680-73-2	PCB-101	0.304	J C90	0.900	0.390	0.0105
32598-14-4	PCB-105	0.0771	J	0.300	0.102	0.0197
74472-37-0	PCB-114	ND		0.300	0.165	0.0209
31508-00-6	PCB-118	0.159	J q	0.300	0.183	0.0200
65510-44-3	PCB-123	ND		0.300	0.171	0.0230
57465-28-8	PCB-126	ND		0.300	0.123	0.0237
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00208
35065-28-2	PCB-138	0.182	J C129	1.20	0.510	0.00216
35065-27-1	PCB-153	0.109	J q C B	0.600	0.249	0.00187
38380-08-4	PCB-156	0.0179	J q C	0.600	0.255	0.00217
69782-90-7	PCB-157	0.0179	J q C156	0.600	0.255	0.00217
52663-72-6	PCB-167	0.0103	J q	0.300	0.180	0.00161
32774-16-6	PCB-169	0.00302	J q	0.300	0.123	0.00151
35065-30-6	PCB-170	0.00901	J q	0.300	0.132	0.000605
35065-29-3	PCB-180	0.0302	J C	0.600	0.204	0.000474
52663-68-0	PCB-187	0.00960	J q	0.300	0.126	0.000503
39635-31-9	PCB-189	ND		0.300	0.147	0.0182
52663-78-2	PCB-195	ND		0.300	0.159	0.000854
40186-72-9	PCB-206	ND		0.300	0.171	0.0236
2051-24-3	PCB-209	0.0302	J	0.300	0.138	0.00143

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 1 - COMBINED</u>	Lab Sample ID: <u>140-37232-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-1-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 15:40</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 18:33</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	61		20-145
208263-77-8	PCB-3L	73		20-145
234432-86-1	PCB-4L	70		20-145
208263-67-6	PCB-15L	72	S	20-145
234432-87-2	PCB-19L	77		20-145
208263-79-0	PCB-37L	80		20-145
234432-88-3	PCB-54L	94		20-145
105600-23-5	PCB-77L	84		20-145
208461-24-9	PCB-81L	83		20-145
234432-89-4	PCB-104L	95		20-145
208263-62-1	PCB-105L	100		20-145
208263-63-2	PCB-114L	100		20-145
104130-40-7	PCB-118L	92		20-145
208263-64-3	PCB-123L	95		20-145
208263-65-4	PCB-126L	99		20-145
234432-90-7	PCB-155L	87		20-145
208263-68-7	PCB-156L	94	C	20-145
235416-30-5	PCB-157L	94	C156	20-145
208263-69-8	PCB-167L	86		20-145
208263-70-1	PCB-169L	91		20-145
160901-80-4	PCB-170L	96		20-145
234432-91-8	PCB-188L	93		20-145
208263-73-4	PCB-189L	97		20-145
105600-26-8	PCB-202L	89		20-145
234446-64-1	PCB-205L	97		20-145
208263-75-6	PCB-206L	96		20-145
234432-92-9	PCB-208L	95		20-145
105600-27-9	PCB-209L	97		20-145

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Lab Sample ID: 140-37232-1
Matrix: Air	Lab File ID: 140-37232-a-1-d.d
Analysis Method: 23	Date Collected: 06/11/2024 15:40
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/15/2024 18:33
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88747	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	75		20-130
235416-29-2	PCB-111L	81		20-130
232919-67-4	PCB-178L	78		20-130
STL01600	PCB-8L	99	S	70-130
STL01603	PCB-79L	110		70-130
STL01604	PCB-95L	111		70-130
STL01606	PCB-153L	91		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
 Lims ID: 140-37232-A-1-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
 Sample Type: Client
 Inject. Date: 15-Jul-2024 18:33:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033504-010
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 16-Jul-2024 17:21:13 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1661

First Level Reviewer: P0IK

Date: 16-Jul-2024 17:21:13

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					7.812	7.812	0.0451	0.0451		
D PCB-1L	11:36	5867571	3.16	1.6108	60.9	60.9	0.5110	0.5110	60.91	
D PCB-3L	13:44	6899247	3.21	1.5891	72.6	72.6	0.5180	0.5180	72.60	
PCB-1	11:36	101123	3.26	1.2191	1.414	1.414	0.0448	0.0448		M
PCB-2	13:35	293617	3.12	1.1805	3.896	3.896	0.0461	0.0461		
PCB-3	13:45	210678	3.59	1.2206	2.502	2.502	0.0444	0.0444		
S Total Dichlorobiphenyls					42.5	42.1	0.0766	0.0766		RQ
D PCB-4L	14:00	2724564	1.62	0.6475	70.4	70.4	0.1914	0.1914	70.36	
* PCB-9L	15:59	5980366	1.60		100.0	100.0				
\$ PCB-8L	16:51	2198651	1.59	1.2066	49.3	49.3	0.1717	0.1717	98.57	a
D PCB-15L	20:02	4670077	1.62	1.0789	72.4	72.4	0.1149	0.1149	72.38	
PCB-4	14:01	22668	1.56	1.2818	0.7610	0.6491	0.0796	0.0796		RQ
PCB-10	14:13						0.0802	0.0802		
PCB-9	16:00						0.0742	0.0742		
PCB-7	16:09	36907	1.56	1.4134	0.8253	0.7062	0.0746	0.0746		RQ
PCB-6	16:25	40506	1.73	1.5421	0.7104	0.7104	0.0684	0.0684		
PCB-5	16:43						0.0788	0.0788		
PCB-8	16:52	114387	1.60	1.5889	1.947	1.947	0.0664	0.0664		a
PCB-14	18:27						0.0752	0.0752		
PCB-11	19:28	1723610	1.58	1.2951	36.0	36.0	0.0815	0.0815		
PCB-12	19:43	22425	1.56	1.3358	0.6943	0.4541	0.0790	0.0790		RQ
PCB-13 (C12)	19:43	22425	1.56	1.3358	0.6943	0.4541	0.0790	0.0790		RQ
PCB-15	20:03	96715	1.53	1.2903	1.605	1.605	0.0847	0.0847		M
S Total Trichlorobiphenyls					40.7	40.5	0.0607	0.0607		RQ
D PCB-19L	17:10	1801591	1.08	0.6285	77.2	77.2	0.4517	0.4517	77.15	
* PCB-32L	20:28	3714986	1.06		100.0	100.0				
* PCB-31L	22:39	11080148	1.06		100.0	100.0				
\$ PCB-28L	22:56	8695763	1.05	1.0494	74.8	74.8	0.2107	0.2107	74.79	
D PCB-37L	26:53	7799062	1.08	0.8749	80.4	80.4	0.2527	0.2527	80.45	
PCB-19	17:12	6631	0.99	1.2809	0.2873	0.2873	0.0722	0.0722		
PCB-18	18:56						0.0524	0.0524		
PCB-30 (C18)	18:56						0.0524	0.0524		
PCB-17	19:24						0.0744	0.0744		
PCB-27	19:37						0.0505	0.0505		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:45						0.0552	0.0552		
PCB-16	19:52						0.0820	0.0820		
PCB-32	20:30	43481	1.04	1.8324	1.486	1.317	0.0505	0.0505		RQa
PCB-34	21:37						0.0603	0.0603		
PCB-23	21:45						0.0628	0.0628		
PCB-26	22:09	142100	1.01	1.1255	1.619	1.619	0.0604	0.0604		
PCB-29 (C26)	22:09	142100	1.01	1.1255	1.619	1.619	0.0604	0.0604		
PCB-25	22:22	75022	0.93	1.2728	0.7558	0.7558	0.0534	0.0534		a
PCB-31	22:40	773679	1.03	1.1532	8.602	8.602	0.0589	0.0589		a
PCB-20	22:57	845355	1.05	1.1718	9.250	9.250	0.0580	0.0580		
PCB-28 (C20)	22:57	845355	1.05	1.1718	9.250	9.250	0.0580	0.0580		
PCB-21	23:12	666208	0.98	1.0746	7.949	7.949	0.0632	0.0632		a
PCB-33 (C21)	23:12	666208	0.98	1.0746	7.949	7.949	0.0632	0.0632		a
PCB-22	23:35	442713	1.06	1.1932	4.757	4.757	0.0570	0.0570		
PCB-36	25:05						0.0614	0.0614		
PCB-39	25:27						0.0587	0.0587		
PCB-38	26:01						0.0627	0.0627		
PCB-35	26:29	50883	1.01	1.1297	0.5775	0.5775	0.0602	0.0602		
PCB-37	26:55	481540	1.07	1.1435	5.399	5.399	0.0594	0.0594		
S Total Tetrachlorobiphenyls					59.5	59.4	0.0560	0.0560		RQ
D PCB-54L	20:20	1935032	0.79	0.5562	93.6	93.6	0.1184	0.1184	93.64	
* PCB-52L	24:44	5544325	0.81		100.0	100.0				
\$ PCB-79L	32:35	3270427	0.80	1.0018	54.8	54.8	0.4205	0.4205	110	
D PCB-81L	33:35	5746807	0.79	1.2470	83.1	83.1	0.3132	0.3132	83.12	
D PCB-77L	34:09	6170097	0.82	1.3212	84.2	84.2	0.2956	0.2956	84.23	
PCB-54	20:12						0.008826	0.008826		
PCB-50	22:25	37839	0.85	0.8578	0.7403	0.7403	0.0718	0.0718		a
PCB-53 (C50)	22:25	37839	0.85	0.8578	0.7403	0.7403	0.0718	0.0718		a
PCB-45	23:08	240200	0.79	0.8264	4.878	4.878	0.0745	0.0745		a
PCB-51 (C45)	23:08	240200	0.79	0.8264	4.878	4.878	0.0745	0.0745		a
PCB-46	23:21	19402	0.76	0.7101	0.4586	0.4586	0.0867	0.0867		a
PCB-52	24:46	242585	0.81	0.9194	4.428	4.428	0.0670	0.0670		a
PCB-43	24:57	7593	0.77	1.0333	0.1498	0.1233	0.0596	0.0596		RQa
PCB-73 (C43)	24:57	7593	0.77	1.0333	0.1498	0.1233	0.0596	0.0596		RQa
PCB-49	25:14	166281	0.84	1.0685	2.612	2.612	0.0576	0.0576		a
PCB-69 (C49)	25:14	166281	0.84	1.0685	2.612	2.612	0.0576	0.0576		a
PCB-48	25:30	67315	0.77	0.8399	1.345	1.345	0.0733	0.0733		a
PCB-44	25:46	898035	0.82	0.9731	15.5	15.5	0.0633	0.0633		a
PCB-47 (C44)	25:46	898035	0.82	0.9731	15.5	15.5	0.0633	0.0633		a
PCB-65 (C44)	25:46	898035	0.82	0.9731	15.5	15.5	0.0633	0.0633		a
PCB-59	26:04	47699	0.89	1.1853	0.6754	0.6754	0.0520	0.0520		a
PCB-62 (C59)	26:04	47699	0.89	1.1853	0.6754	0.6754	0.0520	0.0520		a
PCB-75 (C59)	26:04	47699	0.89	1.1853	0.6754	0.6754	0.0520	0.0520		a
PCB-42	26:16	93931	0.87	0.8097	1.947	1.947	0.0761	0.0761		a
PCB-40	26:45	211549	0.83	0.8863	4.006	4.006	0.0695	0.0695		M
PCB-41 (C40)	26:45	211549	0.83	0.8863	4.006	4.006	0.0695	0.0695		M
PCB-71 (C40)	26:45	211549	0.83	0.8863	4.006	4.006	0.0695	0.0695		M
PCB-64	26:58	169088	0.89	1.1776	2.410	2.410	0.0523	0.0523		a
PCB-72	27:47						0.0563	0.0563		
PCB-68	28:04	131189	0.88	1.2533	1.757	1.757	0.0491	0.0491		
PCB-57	28:29						0.0569	0.0569		
PCB-58	28:44						0.0465	0.0465		
PCB-67	28:51	19159	0.77	1.4230	0.2719	0.2260	0.0433	0.0433		RQ
PCB-63	29:09	16964	0.72	1.1240	0.2533	0.2533	0.0548	0.0548		
PCB-61	29:29	596708	0.79	1.2612	7.940	7.940	0.0488	0.0488		
PCB-70 (C61)	29:29	596708	0.79	1.2612	7.940	7.940	0.0488	0.0488		
PCB-74 (C61)	29:29	596708	0.79	1.2612	7.940	7.940	0.0488	0.0488		
PCB-76 (C61)	29:29	596708	0.79	1.2612	7.940	7.940	0.0488	0.0488		
PCB-66	29:48	354223	0.78	1.2583	4.725	4.725	0.0489	0.0489		
PCB-55	29:59	13752	0.77	1.3236	0.2235	0.1744	0.0465	0.0465		RQ
PCB-56	30:29	213256	0.78	1.2334	2.902	2.902	0.0499	0.0499		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42	122875	0.72	1.1230	1.836	1.836	0.0548	0.0548		M
PCB-80	31:06						0.0465	0.0465		
PCB-79	32:38						0.0429	0.0429		
PCB-78	33:12						0.0530	0.0530		
PCB-81	33:38						0.0582	0.0582		
PCB-77	34:10	32404	0.73	1.0836	0.4847	0.4847	0.0557	0.0557		
S Total Pentachlorobiphenyls					6.760	6.402	0.0473	0.0473		RQ
D PCB-104L	25:40	3988163	1.60	1.2161	95.5	95.5	0.0620	0.0620	95.50	
\$ PCB-95L	28:37	1591937	1.58	0.7218	55.3	55.3	0.0845	0.0845	111	
* PCB-101L	31:31	3434218	1.60		100.0	100.0				
\$ PCB-111L	34:10	3803750	1.60	1.3699	80.9	80.9	0.0551	0.0551	80.85	
D PCB-123L	36:07	5710738	1.56	0.9731	94.8	94.8	0.991	0.991	94.78	
D PCB-118L	36:27	5782750	1.62	1.0102	92.5	92.5	0.9548	0.9548	92.45	
D PCB-114L	36:59	6173603	1.59	0.9949	100.2	100.2	0.9694	0.9694	100	
D PCB-105L	37:38	5915018	1.59	0.9514	100.4	100.4	1.014	1.014	100	
* PCB-127L	39:06	6191738	1.62		100.0	100.0				
D PCB-126L	40:42	5769210	1.59	0.9439	98.7	98.7	1.022	1.022	98.72	
PCB-104	25:40						0.0330	0.0330		
PCB-96	26:04						0.0304	0.0304		
PCB-103	27:57						0.0381	0.0381		
PCB-94	28:12						0.0436	0.0436		
PCB-95	28:38	33219	1.61	0.8033	1.037	1.037	0.0415	0.0415		
PCB-93	28:50						0.0395	0.0395		
PCB-100 (C93)	28:50						0.0395	0.0395		
PCB-98	28:58	821	1.55	0.8262	0.0749	0.0249	0.0403	0.0403		RQ
PCB-102 (C98)	28:58	821	1.55	0.8262	0.0749	0.0249	0.0403	0.0403		RQ
PCB-88	29:28	8264	1.42	0.8013	0.2586	0.2586	0.0416	0.0416		
PCB-91 (C88)	29:28	8264	1.42	0.8013	0.2586	0.2586	0.0416	0.0416		
PCB-84	29:44	7703	1.55	0.7299	0.3660	0.2646	0.0456	0.0456		RQ
PCB-89	30:12						0.0427	0.0427		
PCB-121	30:34						0.0257	0.0257		
PCB-92	30:57	6513	1.55	0.8546	0.2204	0.1911	0.0390	0.0390		RQM
PCB-90	31:32	38596	1.78	0.9550	1.013	1.013	0.0349	0.0349		M
PCB-101 (C90)	31:32	38596	1.78	0.9550	1.013	1.013	0.0349	0.0349		M
PCB-113 (C90)	31:32	38596	1.78	0.9550	1.013	1.013	0.0349	0.0349		M
PCB-83	32:06	19206	1.55	0.8385	0.6818	0.5743	0.0397	0.0397		RQ
PCB-99 (C83)	32:06	19206	1.55	0.8385	0.6818	0.5743	0.0397	0.0397		RQ
PCB-112	32:15						0.0236	0.0236		
PCB-86	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-87 (C86)	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-97 (C86)	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-109 (C86)	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-119 (C86)	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-125 (C86)	32:44	33261	1.43	1.0473	0.7963	0.7963	0.0318	0.0318		M
PCB-85	33:20	10059	1.55	1.0408	0.2705	0.2423	0.0320	0.0320		RQM
PCB-116 (C85)	33:20	10059	1.55	1.0408	0.2705	0.2423	0.0320	0.0320		RQM
PCB-117 (C85)	33:20	10059	1.55	1.0408	0.2705	0.2423	0.0320	0.0320		RQM
PCB-110	33:30	45012	1.78	1.1919	0.9470	0.9470	0.0279	0.0279		
PCB-115 (C110)	33:30	45012	1.78	1.1919	0.9470	0.9470	0.0279	0.0279		
PCB-82	33:50	8836	1.34	0.8303	0.2668	0.2668	0.0401	0.0401		
PCB-111	34:13						0.0275	0.0275		
PCB-120	34:40						0.0226	0.0226		
PCB-108	35:49						0.0705	0.0705		
PCB-124 (C108)	35:49						0.0705	0.0705		
PCB-107	36:04						0.0664	0.0664		
PCB-123	36:11						0.0767	0.0767		
PCB-106	36:18						0.0742	0.0742		
PCB-118	36:29	36858	1.55	1.2055	0.5704	0.5287	0.0667	0.0667		RQ
PCB-122	36:52						0.0841	0.0841		
PCB-114	37:02						0.0698	0.0698		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40	18054	1.34	1.1879	0.2569	0.2569	0.0658	0.0658		
PCB-127	39:09						0.0706	0.0706		
PCB-126	40:46						0.0790	0.0790		
S Total Hexachlorobiphenyls					2.423	2.191	0.006120	0.006120		RQ
D PCB-155L	31:15	3246433	1.28	1.0851	87.1	87.1	0.0241	0.0241	87.12	
\$ PCB-153L	38:18	2137039	1.28	0.9169	45.5	45.5	0.7759	0.7759	91.05	
* PCB-138L	39:34	4560041	1.30		100.0	100.0				
D PCB-167L	42:34	4903559	1.25	1.2572	85.5	85.5	0.5068	0.5068	85.53	
D PCB-156L	43:44	10433097	1.28	1.2106	189.0	189.0	0.5263	0.5263	94.50	
D PCB-157L (C156L)	43:44	10433097	1.28	1.2106	189.0	189.0	0.5263	0.5263	94.50	
D PCB-169L	46:57	5142188	1.26	1.2439	90.7	90.7	0.5123	0.5123	90.66	
PCB-155	31:16	547	1.24	0.9444	0.0302	0.0178	0.003101	0.003101		RQ
PCB-152	31:31						0.002960	0.002960		
PCB-150	31:41						0.002890	0.002890		
PCB-136	32:04	4944	1.29	1.0116	0.1505	0.1505	0.002895	0.002895		
PCB-145	32:20						0.003024	0.003024		
PCB-148	33:50						0.003852	0.003852		
PCB-135	34:24	5366	1.17	0.7256	0.2278	0.2278	0.004036	0.004036		
PCB-151 (C135)	34:24	5366	1.17	0.7256	0.2278	0.2278	0.004036	0.004036		
PCB-154	34:40						0.003603	0.003603		
PCB-144	35:00						0.003730	0.003730		
PCB-147	35:21	15120	1.24	0.8950	0.3709	0.3300	0.007617	0.007617		RQ
PCB-149 (C147)	35:21	15120	1.24	0.8950	0.3709	0.3300	0.007617	0.007617		RQ
PCB-134	35:40						0.008557	0.008557		
PCB-143 (C134)	35:40						0.008557	0.008557		
PCB-139	35:57						0.007774	0.007774		
PCB-140 (C139)	35:57						0.007774	0.007774		
PCB-131	36:10						0.009086	0.009086		
PCB-142	36:19						0.009081	0.009081		
PCB-132	36:36	7050	1.24	0.7489	0.2237	0.1839	0.009103	0.009103		RQ
PCB-133	37:07						0.008421	0.008421		
PCB-165	37:30						0.006653	0.006653		
PCB-146	37:45	2925	1.24	0.9637	0.0886	0.0593	0.007074	0.007074		RQ
PCB-161	37:52						0.006039	0.006039		
PCB-153	38:21	20381	1.24	1.0938	0.4039	0.3640	0.006233	0.006233		RQ
PCB-168 (C153)	38:21	20381	1.24	1.0938	0.4039	0.3640	0.006233	0.006233		RQ
PCB-141	38:35	4780	1.24	0.8755	0.1189	0.1066	0.007786	0.007786		RQM
PCB-130	38:59						0.009668	0.009668		
PCB-137	39:10	680	1.24	0.7767	0.0489	0.0171	0.008778	0.008778		RQ
PCB-164	39:19						0.006566	0.006566		
PCB-129	39:35	29351	1.17	0.9464	0.6058	0.6058	0.007203	0.007203		
PCB-138 (C129)	39:35	29351	1.17	0.9464	0.6058	0.6058	0.007203	0.007203		
PCB-160 (C129)	39:35	29351	1.17	0.9464	0.6058	0.6058	0.007203	0.007203		
PCB-163 (C129)	39:35	29351	1.17	0.9464	0.6058	0.6058	0.007203	0.007203		
PCB-158	40:01	1635	1.24	1.3110	0.0299	0.0244	0.005200	0.005200		RQ
PCB-128	40:51						0.006936	0.006936		
PCB-166 (C128)	40:51						0.006936	0.006936		
PCB-159	41:50						0.004920	0.004920		
PCB-162	42:08						0.005423	0.005423		
PCB-167	42:35	1882	1.24	1.1159	0.0401	0.0344	0.005350	0.005350		RQ
PCB-156	43:45	3464	1.24	1.1104	0.0722	0.0598	0.007245	0.007245		RQ
PCB-157 (C156)	43:45	3464	1.24	1.1104	0.0722	0.0598	0.007245	0.007245		RQ
PCB-169	47:01	601	1.24	1.1628	0.0112	0.0101	0.005039	0.005039		RQ
S Total Heptachlorobiphenyls					0.4170	0.3124	0.004502	0.004502		RQ
D PCB-188L	36:58	3981670	1.06	1.3133	93.4	93.4	0.0197	0.0197	93.40	
\$ PCB-178L	40:01	2627890	1.09	1.0313	78.5	78.5	0.0251	0.0251	78.50	
* PCB-180L	45:06	3246021	1.07		100.0	100.0				
D PCB-170L	46:21	2597300	1.03	0.8362	95.7	95.7	0.0310	0.0310	95.69	
D PCB-189L	49:28	6194455	1.06	1.4414	97.2	97.2	0.4885	0.4885	97.18	
PCB-188	37:00						0.001324	0.001324		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:20	683	1.05	1.4276	0.0276	0.0145	0.001293	0.001293		RQ
PCB-184	37:52						0.001350	0.001350		
PCB-176	38:15						0.001497	0.001497		
PCB-186	38:42						0.001253	0.001253		
PCB-178	40:03	159	1.05	0.8946	0.0159	0.005403	0.002064	0.002064		RQ
PCB-175	40:41						0.001938	0.001938		
PCB-187	40:56	1160	1.05	1.1018	0.0698	0.0320	0.001675	0.001675		RQ
PCB-182	41:09						0.001996	0.001996		
PCB-183	41:32	4031	1.05	0.9825	0.1373	0.1247	0.001879	0.001879		RQM
PCB-185 (C183)	41:32	4031	1.05	0.9825	0.1373	0.1247	0.001879	0.001879		RQM
PCB-174	41:46						0.001915	0.001915		RQU
PCB-177	42:12	165	1.05	0.9773	0.0144	0.005133	0.001889	0.001889		RQ
PCB-181	42:36						0.001942	0.001942		RQU
PCB-171	42:52						0.001977	0.001977		
PCB-173 (C171)	42:52						0.001977	0.001977		
PCB-172	44:30						0.002167	0.002167		U
PCB-192	44:46						0.001372	0.001372		
PCB-180	45:06	3860	0.97	1.1676	0.1005	0.1005	0.001581	0.001581		
PCB-193 (C180)	45:06	3860	0.97	1.1676	0.1005	0.1005	0.001581	0.001581		
PCB-191	45:30						0.001432	0.001432		
PCB-170	46:23	926	1.05	1.1865	0.0515	0.0300	0.002018	0.002018		RQM
PCB-190	46:55						0.001386	0.001386		
PCB-189	49:30						0.0606	0.0606		
S Total Octachlorobiphenyls					0.0372	0.0218	0.004738	0.004738		RQ
D PCB-202L	42:19	2850663	0.92	0.9818	89.4	89.4	0.0215	0.0215	89.45	
* PCB-194L	51:34	4421995	0.93		100.0	100.0				
D PCB-205L	52:03	5054930	0.90	1.1786	97.0	97.0	0.0588	0.0588	96.99	
PCB-202	42:22						0.005188	0.005188		
PCB-201	43:16	176	0.89	0.9754	0.0105	0.006330	0.005510	0.005510		RQ
PCB-204	43:57						0.005126	0.005126		
PCB-197	44:11						0.004690	0.004690		
PCB-200	44:19						0.005336	0.005336		
PCB-198	47:04						0.006179	0.006179		
PCB-199 (C198)	47:04						0.006179	0.006179		
PCB-196	47:43	345	0.89	0.7806	0.0266	0.0155	0.006884	0.006884		RQ
PCB-203	47:56						0.005784	0.005784		
PCB-195	49:14						0.002846	0.002846		RQU
PCB-194	51:36						0.002416	0.002416		
PCB-205	52:04						0.002162	0.002162		
S Total Nonachlorobiphenyls							0.0787	0.0787		
D PCB-208L	48:59	4039908	0.79	0.9576	95.4	95.4	0.1450	0.1450	95.40	
D PCB-206L	53:47	2961992	0.80	0.6947	96.4	96.4	0.1999	0.1999	96.42	
PCB-208	49:01						0.0643	0.0643		
PCB-207	49:56						0.0627	0.0627		
PCB-206	53:49						0.0787	0.0787		
D PCB-209L	55:24	2851925	0.72	0.6669	96.7	96.7	0.0852	0.0852	96.71	
DCB Decachlorobiphenyl	55:26	3164	0.66	1.1004	0.1008	0.1008	0.004772	0.004772		M
S Polychlorinated biphenyls, Total					152.5	0.1008	0.0377	0.0377		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Lims ID: 140-37232-A-1-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Sample Type: Client
Inject. Date: 15-Jul-2024 18:33:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 17:21:13 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1661

First Level Reviewer: P0IK

Date: 16-Jul-2024 17:21:13

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:39	-3	0.725	4457486	1679069	903	2257	1859		
202.0766	11:36	11:39	-3	0.725	1410085	531451	3752	9380	142	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:44	13:47	-3	0.859	5259079	1700108	903	2257	1883		
202.0766	13:44	13:47	-3	0.859	1640168	528989	3752	9380	141	3.21(2.66-3.60)	
PCB-1											
188.0393	11:36	11:36	-3	1.001	77381	28580	291	727	98		M
190.0363	11:36	11:36	-3	1.001	23742	9382	192	480	49	3.26(2.66-3.60)	M
PCB-2											
188.0393	13:35	13:35	-3	0.989	222286	71756	291	727	247		
190.0363	13:35	13:35	-3	0.989	71331	25289	192	480	132	3.12(2.66-3.60)	
PCB-3											
188.0393	13:45	13:45	-3	1.001	164797	51997	291	727	179		
190.0363	13:45	13:45	-3	1.001	45881	14181	192	480	74	3.59(2.66-3.60)	
PCB-4L											
234.0406	14:00	14:02	-3	0.876	1685053	543571	529	1322	1028		
236.0376	14:00	14:02	-3	0.876	1039511	331074	172	430	1925	1.62(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		3681475	867996	529	1322	1641		
236.0376	15:58	15:59	-1		2298891	545749	172	430	3173	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:51	16:51	1	1.204	1350549	240380	529	1322	454		a
236.0376	16:51	16:51	1	1.204	848102	156118	172	430	908	1.59(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:02	19:53	9	1.254	2886480	505118	529	1322	955		
236.0376	20:02	19:53	9	1.254	1783597	311110	172	430	1809	1.62(1.33-1.79)	
PCB-4											
222.0003	14:01	14:01	-3	1.001	17723	5483	164	410	33		RQ
	Empc Correction				13813	4382	164	410	27		
223.9974	14:00	14:01	-4	1.000	8855	2809	193	482	15	2.00(1.33-1.79)	
PCB-10											
222.0003	14:11						164	410			
223.9974	14:11						193	482			
PCB-9											
222.0003	15:57						164	410			
223.9974	15:57						193	482			
PCB-7											
222.0003	16:09	16:07	-1	1.154	28712	5747	164	410	35		RQ
	Empc Correction				22490	4965	164	410	30		
223.9974	16:09	16:07	-1	1.154	14417	3183	193	482	16	1.99(1.33-1.79)	
PCB-6											
222.0003	16:25	16:22	0	1.173	25653	4581	164	410	28		
223.9974	16:25	16:22	0	1.173	14853	4010	193	482	21	1.73(1.33-1.79)	
PCB-5											
222.0003	16:40						164	410			
223.9974	16:40						193	482			
PCB-8											
222.0003	16:52	16:52	2	1.206	70440	12017	164	410	73		a
223.9974	16:52	16:52	1	1.205	43947	8190	193	482	42	1.60(1.33-1.79)	a
PCB-14											
222.0003	18:35						164	410			
223.9974	18:35						193	482			
PCB-11											
222.0003	19:28	19:26	11	0.971	1054360	191854	164	410	1170		
223.9974	19:28	19:26	11	0.971	669250	127639	193	482	661	1.58(1.33-1.79)	
PCB-12											
222.0003	19:43	19:44	8	0.984	25532	3377	164	410	21		RQ
	Empc Correction				13665	3229	164	410	20		
223.9974	19:42	19:44	7	0.983	8760	2070	193	482	11	2.91(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:43	19:44	8	0.984	25532	3377	164	410	21		RQ
	Empc Correction				13665	3229	164	410	20		
223.9974	19:42	19:44	7	0.983	8760	2070	193	482	11	2.91(1.33-1.79)	
PCB-15											
222.0003	20:03	20:04	9	1.001	58493	10035	164	410	61		M
223.9974	20:04	20:04	10	1.001	38222	5394	193	482	28	1.53(1.33-1.79)	M
PCB-19L											
268.0016	17:10	17:14	2	0.838	934144	180304	619	1547	291		
269.9986	17:11	17:14	3	0.839	867447	170947	428	1070	399	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:28	20:21	8		1915692	473627	619	1547	765		
269.9986	20:28	20:21	8		1799294	448191	428	1070	1047	1.06(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:36	4		5706924	1388099	759	1897	1829		
269.9986	22:39	22:36	4		5373224	1286241	1606	4015	801	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	4	1.012	4463843	1015748	759	1897	1338		
269.9986	22:56	22:56	4	1.012	4231920	968739	1606	4015	603	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:58	0	1.187	4048740	850550	759	1897	1121		
269.9986	26:53	26:58	0	1.187	3750322	804902	1606	4015	501	1.08(0.88-1.20)	
PCB-19											
255.9613	17:12	17:11	4	1.002	3300	664	54	135	12		
257.9584	17:10	17:11	1	1.000	3331	872	76	190	11	0.99(0.88-1.20)	
PCB-18											
255.9613	18:58						54	135			
257.9584	18:58						76	190			
PCB-30 (C18)											
255.9613	18:58						54	135			
257.9584	18:58						76	190			
PCB-17											
255.9613	19:26						54	135			
257.9584	19:26						76	190			
PCB-27											
255.9613	19:39						54	135			
257.9584	19:39						76	190			
PCB-24											
255.9613	19:47						54	135			
257.9584	19:47						76	190			
PCB-16											
255.9613	19:54						54	135			
257.9584	19:54						76	190			
PCB-32											
255.9613	20:30	20:30	8	1.195	22167	5526	54	135	102		RQa
257.9584	20:30	20:30	8	1.195	26901	5905	76	190	78	0.82(0.88-1.20)	a
	Empc Correction				21314	5313	76	190	70		
PCB-34											
255.9613	21:39						180	450			
257.9584	21:39						270	675			
PCB-23											
255.9613	21:48						180	450			
257.9584	21:48						270	675			
PCB-26											
255.9613	22:09	22:08	4	1.290	71417	16135	180	450	90		
257.9584	22:08	22:08	3	1.290	70683	15332	270	675	57	1.01(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:09	22:08	4	1.290	71417	16135	180	450	90		
257.9584	22:08	22:08	3	1.290	70683	15332	270	675	57	1.01(0.88-1.20)	
PCB-25											
255.9613	22:22	22:22	4	0.832	36244	8704	180	450	48		a
257.9584	22:22	22:22	4	0.832	38778	8138	270	675	30	0.93(0.88-1.20)	a
PCB-31											
255.9613	22:40	22:40	3	0.843	392867	90698	180	450	504		a
257.9584	22:40	22:40	3	0.843	380812	89254	270	675	331	1.03(0.88-1.20)	a
PCB-20											
255.9613	22:57	22:55	1	0.854	432943	94575	180	450	525		
257.9584	22:58	22:55	2	0.854	412412	85348	270	675	316	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:55	1	0.854	432943	94575	180	450	525		
257.9584	22:58	22:55	2	0.854	412412	85348	270	675	316	1.05(0.88-1.20)	
PCB-21											
255.9613	23:12	23:12	7	0.863	330053	76008	180	450	422		a
257.9584	23:12	23:12	7	0.863	336155	70246	270	675	260	0.98(0.88-1.20)	a
PCB-33 (C21)											
255.9613	23:12	23:12	7	0.863	330053	76008	180	450	422		a
257.9584	23:12	23:12	7	0.863	336155	70246	270	675	260	0.98(0.88-1.20)	a
PCB-22											
255.9613	23:35	23:33	2	0.877	228111	48420	180	450	269		
257.9584	23:35	23:33	2	0.877	214602	47686	270	675	177	1.06(0.88-1.20)	
PCB-36											
255.9613	25:05						180	450			
257.9584	25:05						270	675			
PCB-39											
255.9613	25:27						180	450			
257.9584	25:27						270	675			
PCB-38											
255.9613	26:01						180	450			
257.9584	26:01						270	675			
PCB-35											
255.9613	26:29	26:29	0	0.985	25588	5007	180	450	28		
257.9584	26:30	26:29	0	0.986	25295	4873	270	675	18	1.01(0.88-1.20)	
PCB-37											
255.9613	26:55	26:54	0	1.001	248774	52331	180	450	291		
257.9584	26:54	26:54	0	1.000	232766	49433	270	675	183	1.07(0.88-1.20)	
PCB-54L											
301.9626	20:20	20:12	8	0.822	856132	181944	154	385	1181		
303.9597	20:20	20:12	8	0.822	1078900	236285	89	222	2655	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:44	24:43	1		2486491	562364	795	1987	707		
303.9597	24:44	24:43	1		3057834	698578	1175	2937	595	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:35	32:34	-1	0.970	1455008	276931	795	1987	348		
303.9597	32:35	32:34	-1	0.970	1815419	348732	1175	2937	297	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:35	33:39	-2	1.358	2534426	503875	795	1987	634		
303.9597	33:35	33:39	-2	1.358	3212381	641768	1175	2937	546	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:12	-2	1.380	2771028	537046	795	1987	676		
303.9597	34:09	34:12	-2	1.380	3399069	655634	1175	2937	558	0.82(0.65-0.89)	
PCB-54											
289.9224	20:12						7	17			
291.9194	20:12						12	30			
PCB-50											
289.9224	22:25	22:25	4	1.103	17395	4043	67	167	60		a
291.9194	22:25	22:25	4	1.103	20444	4352	221	552	20	0.85(0.65-0.89)	a
PCB-53 (C50)											
289.9224	22:25	22:25	4	1.103	17395	4043	67	167	60		a
291.9194	22:25	22:25	4	1.103	20444	4352	221	552	20	0.85(0.65-0.89)	a
PCB-45											
289.9224	23:08	23:08	3	1.138	106070	21245	67	167	317		a
291.9194	23:08	23:08	4	1.138	134130	24974	221	552	113	0.79(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:08	23:08	3	1.138	106070	21245	67	167	317		a
291.9194	23:08	23:08	4	1.138	134130	24974	221	552	113	0.79(0.65-0.89)	a
PCB-46											
289.9224	23:21	23:21	1	1.149	8352	1877	67	167	28		a
291.9194	23:23	23:21	3	1.150	11050	2242	221	552	10	0.76(0.65-0.89)	a
PCB-52											
289.9224	24:46	24:46	2	1.218	108765	24520	67	167	366		a
291.9194	24:45	24:46	1	1.218	133820	32053	221	552	145	0.81(0.65-0.89)	a
PCB-43											
289.9224	24:57	24:57	5	1.228	4932	969	67	167	14		RQa
	Empc Correction				3303	1160	67	167	17		a
291.9194	24:59	24:57	7	1.229	4290	1507	221	552	7	1.15(0.65-0.89)	
PCB-73 (C43)											
289.9224	24:57	24:57	5	1.228	4932	969	67	167	14		RQa
	Empc Correction				3303	1160	67	167	17		a
291.9194	24:59	24:57	7	1.229	4290	1507	221	552	7	1.15(0.65-0.89)	
PCB-49											
289.9224	25:14	25:14	5	1.241	75894	17410	67	167	260		a
291.9194	25:14	25:14	5	1.241	90387	21634	221	552	98	0.84(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:14	25:14	5	1.241	75894	17410	67	167	260		a
291.9194	25:14	25:14	5	1.241	90387	21634	221	552	98	0.84(0.65-0.89)	a
PCB-48											
289.9224	25:30	25:30	0	1.255	29308	7115	67	167	106		a
291.9194	25:30	25:30	0	1.255	38007	8356	221	552	38	0.77(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											a
289.9224	25:46	25:46	1	1.267	404687	86217	67	167	1287		a
291.9194	25:46	25:46	1	1.267	493348	102071	221	552	462	0.82(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:46	25:46	1	1.267	404687	86217	67	167	1287		a
291.9194	25:46	25:46	1	1.267	493348	102071	221	552	462	0.82(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:46	25:46	1	1.267	404687	86217	67	167	1287		a
291.9194	25:46	25:46	1	1.267	493348	102071	221	552	462	0.82(0.65-0.89)	
PCB-59											a
289.9224	26:04	26:04	1	1.282	22448	4648	67	167	69		a
291.9194	26:05	26:04	2	1.283	25251	6284	221	552	28	0.89(0.65-0.89)	
PCB-62 (C59)											a
289.9224	26:04	26:04	1	1.282	22448	4648	67	167	69		a
291.9194	26:05	26:04	2	1.283	25251	6284	221	552	28	0.89(0.65-0.89)	
PCB-75 (C59)											a
289.9224	26:04	26:04	1	1.282	22448	4648	67	167	69		a
291.9194	26:05	26:04	2	1.283	25251	6284	221	552	28	0.89(0.65-0.89)	
PCB-42											a
289.9224	26:16	26:16	0	1.292	43645	10065	67	167	150		a
291.9194	26:16	26:16	0	1.292	50286	10603	221	552	48	0.87(0.65-0.89)	
PCB-40											M
289.9224	26:45	26:45	0	1.316	96010	16664	67	167	249		M
291.9194	26:45	26:45	0	1.316	115539	22228	221	552	101	0.83(0.65-0.89)	M
PCB-41 (C40)											M
289.9224	26:45	26:45	0	1.316	96010	16664	67	167	249		M
291.9194	26:45	26:45	0	1.316	115539	22228	221	552	101	0.83(0.65-0.89)	M
PCB-71 (C40)											M
289.9224	26:45	26:45	0	1.316	96010	16664	67	167	249		M
291.9194	26:45	26:45	0	1.316	115539	22228	221	552	101	0.83(0.65-0.89)	M
PCB-64											a
289.9224	26:58	26:58	0	1.326	79843	17959	67	167	268		a
291.9194	26:59	26:58	1	1.327	89245	19743	221	552	89	0.89(0.65-0.89)	
PCB-72											
289.9224	27:46						67	167			
291.9194	27:46						221	552			
PCB-68											
289.9224	28:04	28:02	0	0.836	61315	12995	67	167	194		
291.9194	28:04	28:02	0	0.836	69874	14660	221	552	66	0.88(0.65-0.89)	
PCB-57											
289.9224	28:28						67	167			
291.9194	28:28						221	552			
PCB-58											
289.9224	28:42						67	167			
291.9194	28:42						221	552			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-67											RQ
289.9224	28:51	28:52	-2	0.859	8335	1631	67	167	24		
291.9194	28:52	28:52	-1	0.860	14718	3031	221	552	14	0.57(0.65-0.89)	
Empc Correction					10824	2118	221	552	10		
PCB-63											
289.9224	29:09	29:08	0	0.868	7106	1489	67	167	22		
291.9194	29:10	29:08	0	0.868	9858	1627	221	552	7	0.72(0.65-0.89)	
PCB-61											
289.9224	29:29	29:28	-1	0.878	263118	40727	67	167	608		
291.9194	29:29	29:28	-1	0.878	333590	50722	221	552	230	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:29	29:28	-1	0.878	263118	40727	67	167	608		
291.9194	29:29	29:28	-1	0.878	333590	50722	221	552	230	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:29	29:28	-1	0.878	263118	40727	67	167	608		
291.9194	29:29	29:28	-1	0.878	333590	50722	221	552	230	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:29	29:28	-1	0.878	263118	40727	67	167	608		
291.9194	29:29	29:28	-1	0.878	333590	50722	221	552	230	0.79(0.65-0.89)	
PCB-66											
289.9224	29:48	29:47	-1	0.887	154976	31634	67	167	472		
291.9194	29:49	29:47	0	0.888	199247	40018	221	552	181	0.78(0.65-0.89)	
PCB-55											RQ
289.9224	29:59	29:57	0	0.893	9860	1550	67	167	23		
Empc Correction					5982	1131	67	167	17		
291.9194	29:59	29:57	0	0.893	7770	1470	221	552	7	1.27(0.65-0.89)	
PCB-56											
289.9224	30:29	30:28	-1	0.907	93769	19577	67	167	292		
291.9194	30:29	30:28	-1	0.907	119487	22529	221	552	102	0.78(0.65-0.89)	
PCB-60											M
289.9224	30:42	30:42	0	0.914	51625	10830	67	167	162		
291.9194	30:42	30:42	0	0.914	71250	14991	221	552	68	0.72(0.65-0.89)	M
PCB-80											
289.9224	31:04						67	167			
291.9194	31:04						221	552			
PCB-79											
289.9224	32:36						67	167			
291.9194	32:36						221	552			
PCB-78											
289.9224	33:10						67	167			
291.9194	33:10						221	552			
PCB-81											
289.9224	33:36						67	167			
291.9194	33:36						221	552			
PCB-77											
289.9224	34:10	34:10	-2	1.001	13626	2932	67	167	44		
291.9194	34:10	34:10	-3	1.000	18778	4691	221	552	21	0.73(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104L											
337.9207	25:40	25:38	1	0.814	2455642	550175	104	260	5290		
339.9178	25:40	25:38	1	0.814	1532521	335567	112	280	2996	1.60(1.32-1.78)	
PCB-95L											
337.9207	28:37	28:38	0	1.115	973956	221413	104	260	2129		
339.9178	28:37	28:38	0	1.115	617981	139059	112	280	1242	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2111944	441056	104	260	4241		
339.9178	31:31	31:31	0		1322274	274801	112	280	2454	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:11	-1	1.084	2340941	454487	104	260	4370		
339.9178	34:10	34:11	-1	1.084	1462809	286832	112	280	2561	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:07	36:09	-2	1.146	3483388	684385	2423	6057	282		
339.9178	36:07	36:09	-2	1.146	2227350	449350	2087	5217	215	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:27	36:29	-2	1.157	3575868	715065	2423	6057	295		
339.9178	36:27	36:29	-2	1.157	2206882	443919	2087	5217	213	1.62(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	-2	1.173	3794563	756657	2423	6057	312		
339.9178	36:59	37:00	-2	1.173	2379040	475742	2087	5217	228	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:39	-2	1.194	3633779	731657	2423	6057	302		
339.9178	37:38	37:39	-2	1.194	2281239	460334	2087	5217	221	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-2		3824862	720743	2423	6057	297		
339.9178	39:06	39:07	-2		2366876	448302	2087	5217	215	1.62(1.32-1.78)	
PCB-126L											
337.9207	40:42	40:45	-3	1.292	3543294	664222	2423	6057	274		
339.9178	40:42	40:45	-3	1.292	2225916	411088	2087	5217	197	1.59(1.32-1.78)	
PCB-104											
325.8804	25:41						101	252			
327.8775	25:41						17	42			
PCB-96											
325.8804	26:05						101	252			
327.8775	26:05						17	42			
PCB-103											
325.8804	27:58						101	252			
327.8775	27:58						17	42			
PCB-94											
325.8804	28:13						101	252			
327.8775	28:13						17	42			
PCB-95											
325.8804	28:38	28:40	0	1.116	20478	4253	101	252	42		
327.8775	28:37	28:40	-1	1.116	12741	3296	17	42	194	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-93											
325.8804	28:51						101	252			
327.8775	28:51						17	42			
PCB-100 (C93)											
325.8804	28:51						101	252			
327.8775	28:51						17	42			
PCB-98											
325.8804	28:58	29:01	-2	1.129	2146	618	101	252	6		RQ
	Empc Correction				499	165	101	252	2		
327.8775	28:57	29:01	-3	1.128	322	107	17	42	6	6.66(1.32-1.78)	
PCB-102 (C98)											
325.8804	28:58	29:01	-2	1.129	2146	618	101	252	6		RQ
	Empc Correction				499	165	101	252	2		
327.8775	28:57	29:01	-3	1.128	322	107	17	42	6	6.66(1.32-1.78)	
PCB-88											
325.8804	29:28	29:31	-1	1.148	4850	912	101	252	9		
327.8775	29:27	29:31	-2	1.148	3414	763	17	42	45	1.42(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:28	29:31	-1	1.148	4850	912	101	252	9		
327.8775	29:27	29:31	-2	1.148	3414	763	17	42	45	1.42(1.32-1.78)	
PCB-84											
325.8804	29:44	29:45	0	1.159	7635	2063	101	252	20		RQ
	Empc Correction				4682	987	101	252	10		
327.8775	29:43	29:45	-1	1.158	3021	637	17	42	37	2.53(1.32-1.78)	
PCB-89											
325.8804	30:14						101	252			
327.8775	30:14						17	42			
PCB-121											
325.8804	30:36						101	252			
327.8775	30:36						17	42			
PCB-92											
325.8804	30:57	30:56	-1	0.857	3959	959	101	252	9		RQM
327.8775	30:56	30:56	-2	0.856	3551	854	17	42	50	1.11(1.32-1.78)	M
	Empc Correction				2554	618	17	42	36		
PCB-90											
325.8804	31:32	31:32	0	1.229	24733	4686	101	252	46		M
327.8775	31:32	31:32	0	1.229	13863	3067	17	42	180	1.78(1.32-1.78)	M
PCB-101 (C90)											
325.8804	31:32	31:32	0	1.229	24733	4686	101	252	46		M
327.8775	31:32	31:32	0	1.229	13863	3067	17	42	180	1.78(1.32-1.78)	M
PCB-113 (C90)											
325.8804	31:32	31:32	0	1.229	24733	4686	101	252	46		M
327.8775	31:32	31:32	0	1.229	13863	3067	17	42	180	1.78(1.32-1.78)	M
PCB-83											
325.8804	32:06	32:09	-1	1.251	15267	2506	101	252	25		RQ
	Empc Correction				11674	2413	101	252	24		
327.8775	32:05	32:09	-2	1.251	7532	1557	17	42	92	2.03(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-99 (C83)											RQ
325.8804	32:06	32:09	-1	1.251	15267	2506	101	252	25		
	Empc Correction				11674	2413	101	252	24		
327.8775	32:05	32:09	-2	1.251	7532	1557	17	42	92	2.03(1.32-1.78)	
PCB-112											
325.8804	32:16						101	252			
327.8775	32:16						17	42			
PCB-86											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:44	32:42	7	1.276	19553	2678	101	252	27		M
327.8775	32:42	32:42	6	1.275	13708	1688	17	42	99	1.43(1.32-1.78)	M
PCB-85											RQM
325.8804	33:20	33:20	0	1.299	7284	1379	101	252	14		
	Empc Correction				6114	1970	101	252	20		
327.8775	33:20	33:20	0	1.299	3945	1271	17	42	75	1.85(1.32-1.78)	M
PCB-116 (C85)											RQM
325.8804	33:20	33:20	0	1.299	7284	1379	101	252	14		
	Empc Correction				6114	1970	101	252	20		
327.8775	33:20	33:20	0	1.299	3945	1271	17	42	75	1.85(1.32-1.78)	M
PCB-117 (C85)											RQM
325.8804	33:20	33:20	0	1.299	7284	1379	101	252	14		
	Empc Correction				6114	1970	101	252	20		
327.8775	33:20	33:20	0	1.299	3945	1271	17	42	75	1.85(1.32-1.78)	M
PCB-110											
325.8804	33:30	33:35	-3	1.305	28815	6275	101	252	62		
327.8775	33:30	33:35	-3	1.306	16197	3580	17	42	211	1.78(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:30	33:35	-3	1.305	28815	6275	101	252	62		
327.8775	33:30	33:35	-3	1.306	16197	3580	17	42	211	1.78(1.32-1.78)	
PCB-82											
325.8804	33:50	33:53	-1	1.319	5065	853	101	252	8		
327.8775	33:50	33:53	-2	1.318	3771	991	17	42	58	1.34(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-111											
325.8804	34:14						101	252			
327.8775	34:14						17	42			
PCB-120											
325.8804	34:42						101	252			
327.8775	34:42						17	42			
PCB-108											
325.8804	35:51						200	500			
327.8775	35:51						173	432			
PCB-124 (C108)											
325.8804	35:51						200	500			
327.8775	35:51						173	432			
PCB-107											
325.8804	36:05						200	500			
327.8775	36:05						173	432			
PCB-123											
325.8804	36:09						200	500			
327.8775	36:09						173	432			
PCB-106											
325.8804	36:16						200	500			
327.8775	36:16						173	432			
PCB-118											
325.8804	36:29	36:29	-1	1.001	22404	4166	200	500	21		RQ
327.8775	36:27	36:29	-3	1.000	17360	3747	173	432	22	1.29(1.32-1.78)	
	Empc Correction				14454	2687	173	432	16		
PCB-122											
325.8804	36:50						200	500			
327.8775	36:50						173	432			
PCB-114											
325.8804	37:00						200	500			
327.8775	37:00						173	432			
PCB-105											
325.8804	37:40	37:40	-2	1.001	10338	2369	200	500	12		
327.8775	37:40	37:40	-2	1.001	7716	1505	173	432	9	1.34(1.32-1.78)	
PCB-127											
325.8804	39:07						200	500			
327.8775	39:07						173	432			
PCB-126											
325.8804	40:43						200	500			
327.8775	40:43						173	432			
PCB-155L											
371.8817	31:15	31:14	0	0.790	1825137	384617	24	60	16026		
373.8788	31:15	31:14	0	0.790	1421296	298272	51	127	5848	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:18	38:19	-2	0.900	1200124	234490	1283	3207	183		
373.8788	38:18	38:19	-2	0.900	936915	179565	1013	2532	177	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-138L											
371.8817	39:34	39:36	-2		2573557	508162	1283	3207	396		
373.8788	39:34	39:36	-2		1986484	392687	1013	2532	388	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:33	-1	1.076	2727900	517289	1283	3207	403		
373.8788	42:34	42:33	-1	1.076	2175659	403974	1013	2532	399	1.25(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:43	-1	1.105	5850558	765622	1283	3207	597		
373.8788	43:44	43:43	-1	1.105	4582539	601706	1013	2532	594	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:43	-1	1.105	5850558	765622	1283	3207	597		
373.8788	43:44	43:43	-1	1.105	4582539	601706	1013	2532	594	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:56	-1	1.187	2864257	522758	1283	3207	407		
373.8788	46:57	46:56	-1	1.187	2277931	415795	1013	2532	410	1.26(1.05-1.43)	
PCB-155											
359.8415	31:16	31:17	-1	1.000	303	109	4	10	27		RQ
361.8385	31:16	31:17	-1	1.000	622	177	4	10	44	0.49(1.05-1.43)	
Empc Correction					244	87	4	10	22		
PCB-152											
359.8415	31:31						4	10			
361.8385	31:31						4	10			
PCB-150											
359.8415	31:41						4	10			
361.8385	31:41						4	10			
PCB-136											
359.8415	32:04	32:04	0	1.026	2782	635	4	10	159		
361.8385	32:03	32:04	-1	1.025	2162	555	4	10	139	1.29(1.05-1.43)	
PCB-145											
359.8415	32:20						4	10			
361.8385	32:20						4	10			
PCB-148											
359.8415	33:50						4	10			
361.8385	33:50						4	10			
PCB-135											
359.8415	34:24	34:26	-2	1.101	2895	478	4	10	120		
361.8385	34:23	34:26	-3	1.100	2471	392	4	10	98	1.17(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:24	34:26	-2	1.101	2895	478	4	10	120		
361.8385	34:23	34:26	-3	1.100	2471	392	4	10	98	1.17(1.05-1.43)	
PCB-154											
359.8415	34:40						4	10			
361.8385	34:40						4	10			
PCB-144											
359.8415	34:59						4	10			
361.8385	34:59						4	10			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-147											RQ
359.8415	35:21	35:22	-1	1.131	10246	2377	19	47	125		
	Empc Correction				8370	1587	19	47	84		
361.8385	35:19	35:22	-3	1.130	6750	1280	3	7	427	1.52(1.05-1.43)	
PCB-149 (C147)											RQ
359.8415	35:21	35:22	-1	1.131	10246	2377	19	47	125		
	Empc Correction				8370	1587	19	47	84		
361.8385	35:19	35:22	-3	1.130	6750	1280	3	7	427	1.52(1.05-1.43)	
PCB-134											
359.8415	35:40						19	47			
361.8385	35:40						3	7			
PCB-143 (C134)											
359.8415	35:40						19	47			
361.8385	35:40						3	7			
PCB-139											
359.8415	35:57						19	47			
361.8385	35:57						3	7			
PCB-140 (C139)											
359.8415	35:57						19	47			
361.8385	35:57						3	7			
PCB-131											
359.8415	36:10						19	47			
361.8385	36:10						3	7			
PCB-142											
359.8415	36:18						19	47			
361.8385	36:18						3	7			
PCB-132											RQ
359.8415	36:36	36:38	-2	1.171	3903	1052	19	47	55		
361.8385	36:36	36:38	-2	1.171	4676	1181	3	7	394	0.83(1.05-1.43)	
	Empc Correction				3147	848	3	7	283		
PCB-133											
359.8415	37:06						19	47			
361.8385	37:06						3	7			
PCB-165											
359.8415	37:30						19	47			
361.8385	37:30						3	7			
PCB-146											RQ
359.8415	37:45	37:44	0	0.887	3067	635	19	47	33		
	Empc Correction				1619	652	19	47	34		
361.8385	37:44	37:44	-2	0.886	1306	526	3	7	175	2.35(1.05-1.43)	
PCB-161											
359.8415	37:52						19	47			
361.8385	37:52						3	7			
PCB-153											RQ
359.8415	38:21	38:22	-3	0.901	13521	2414	19	47	127		
	Empc Correction				11282	2214	19	47	117		
361.8385	38:20	38:22	-3	0.901	9099	1786	3	7	595	1.49(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-168 (C153)											RQ
359.8415	38:21	38:22	-3	0.901	13521	2414	19	47	127		
	Empc Correction				11282	2214	19	47	117		
361.8385	38:20	38:22	-3	0.901	9099	1786	3	7	595	1.49(1.05-1.43)	
PCB-141											RQM
359.8415	38:35	38:34	1	0.906	3195	700	19	47	37		M
	Empc Correction				2646	567	19	47	30		
361.8385	38:34	38:34	0	0.906	2134	458	3	7	153	1.50(1.05-1.43)	M
PCB-130											
359.8415	38:58						19	47			
361.8385	38:58						3	7			
PCB-137											RQ
359.8415	39:10	39:10	-1	0.920	1639	410	19	47	22		
	Empc Correction				376	207	19	47	11		
361.8385	39:10	39:10	-1	0.920	304	167	3	7	56	5.39(1.05-1.43)	
PCB-164											
359.8415	39:18						19	47			
361.8385	39:18						3	7			
PCB-129											
359.8415	39:35	39:36	-3	0.930	15828	3024	19	47	159		
361.8385	39:35	39:36	-3	0.930	13523	2103	3	7	701	1.17(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:35	39:36	-3	0.930	15828	3024	19	47	159		
361.8385	39:35	39:36	-3	0.930	13523	2103	3	7	701	1.17(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:35	39:36	-3	0.930	15828	3024	19	47	159		
361.8385	39:35	39:36	-3	0.930	13523	2103	3	7	701	1.17(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:35	39:36	-3	0.930	15828	3024	19	47	159		
361.8385	39:35	39:36	-3	0.930	13523	2103	3	7	701	1.17(1.05-1.43)	
PCB-158											RQ
359.8415	40:01	39:59	1	0.940	1277	503	19	47	26		
	Empc Correction				905	333	19	47	18		
361.8385	40:01	39:59	1	0.940	730	269	3	7	90	1.75(1.05-1.43)	
PCB-128											
359.8415	40:50						19	47			
361.8385	40:50						3	7			
PCB-166 (C128)											
359.8415	40:50						19	47			
361.8385	40:50						3	7			
PCB-159											
359.8415	41:49						19	47			
361.8385	41:49						3	7			
PCB-162											
359.8415	42:07						19	47			
361.8385	42:07						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167											RQ
359.8415	42:35	42:35	-1	1.001	1042	454	19	47	24		
361.8385	42:35	42:35	-1	1.001	1150	370	3	7	123	0.91(1.05-1.43)	
Empc Correction					840	366	3	7	122		
PCB-156											RQ
359.8415	43:45	43:45	-2	1.000	1918	628	19	47	33		
361.8385	43:43	43:45	-3	1.000	2265	382	3	7	127	0.85(1.05-1.43)	
Empc Correction					1546	506	3	7	169		
PCB-157 (C156)											RQ
359.8415	43:45	43:45	-2	1.000	1918	628	19	47	33		
361.8385	43:43	43:45	-3	1.000	2265	382	3	7	127	0.85(1.05-1.43)	
Empc Correction					1546	506	3	7	169		
PCB-169											RQ
359.8415	47:01	46:58	1	1.001	333	164	19	47	9		
361.8385	47:02	46:58	2	1.002	337	159	3	7	53	0.99(1.05-1.43)	
Empc Correction					268	132	3	7	44		
PCB-188L											
405.8428	36:58	36:58	-1	0.820	2050399	415349	53	132	7837		
407.8398	36:58	36:58	-1	0.820	1931271	383493	12	30	31958	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:02	-1	0.888	1369213	258892	53	132	4885		
407.8398	40:01	40:02	-2	0.887	1258677	235876	12	30	19656	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	-1		1675124	326356	53	132	6158		
407.8398	45:06	45:07	-1		1570897	298472	12	30	24873	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:21	46:22	-2	1.028	1320439	254257	53	132	4797		
407.8398	46:21	46:22	-2	1.028	1276861	246948	12	30	20579	1.03(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.097	3191468	595637	685	1712	870		
407.8398	49:28	49:27	-1	1.097	3002987	560863	1631	4077	344	1.06(0.89-1.21)	
PCB-188											
393.8025	36:59						3	7			
395.7995	36:59						2	5			
PCB-179											RQ
393.8025	37:20	37:21	-3	1.010	350	168	3	7	56		
395.7995	37:21	37:21	-1	1.011	947	199	2	5	100	0.37(0.89-1.21)	
Empc Correction					333	160	2	5	80		
PCB-184											
393.8025	37:51						3	7			
395.7995	37:51						2	5			
PCB-176											
393.8025	38:13						3	7			
395.7995	38:13						2	5			
PCB-186											
393.8025	38:41						3	7			
395.7995	38:41						2	5			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178											RQ
393.8025	40:03	40:03	-1	1.084	391	191	3	7	64		
	Empc Correction				81	39	3	7	13		
395.7995	40:02	40:03	-2	1.083	78	38	2	5	19	5.01(0.89-1.21)	
PCB-175											
393.8025	40:40						3	7			
395.7995	40:40						2	5			
PCB-187											RQ
393.8025	40:56	40:56	-2	1.107	1964	527	3	7	176		
	Empc Correction				594	145	3	7	48		
395.7995	40:57	40:56	-1	1.108	566	139	2	5	70	3.47(0.89-1.21)	
PCB-182											
393.8025	41:08						3	7			
395.7995	41:08						2	5			
PCB-183											RQM
393.8025	41:32	41:38	-2	1.124	2065	463	3	7	154		
395.7995	41:38	41:38	4	1.126	2373	503	2	5	252	0.87(0.89-1.21)	M
	Empc Correction				1966	440	2	5	220		
PCB-185 (C183)											RQM
393.8025	41:32	41:38	-2	1.124	2065	463	3	7	154		
395.7995	41:38	41:38	4	1.126	2373	503	2	5	252	0.87(0.89-1.21)	M
	Empc Correction				1966	440	2	5	220		
PCB-174											RQU
393.8025	41:48						3	7			
395.7995	41:48						2	5			
PCB-177											RQ
393.8025	42:12	42:14	-3	1.142	85	47	3	7	16		
395.7995	42:12	42:14	-3	1.142	377	109	2	5	55	0.23(0.89-1.21)	
	Empc Correction				80	44	2	5	22		
PCB-181											RQU
393.8025	42:37						3	7			
395.7995	42:37						2	5			
PCB-171											
393.8025	42:51						3	7			
395.7995	42:51						2	5			
PCB-173 (C171)											
393.8025	42:51						3	7			
395.7995	42:51						2	5			
PCB-172											U
393.8025	44:29						3	7			
395.7995	44:29						2	5			
PCB-192											
393.8025	44:45						3	7			
395.7995	44:45						2	5			
PCB-180											
393.8025	45:06	45:06	-1	0.912	1897	402	3	7	134		
395.7995	45:07	45:06	1	0.912	1963	520	2	5	260	0.97(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											
393.8025	45:06	45:06	-1	0.912	1897	402	3	7	134	0.97(0.89-1.21)	
395.7995	45:07	45:06	1	0.912	1963	520	2	5	260		
PCB-191											
393.8025	45:29						3	7			
395.7995	45:29						2	5			
PCB-170											
393.8025	46:23	46:23	-2	0.938	1134	412	3	7	137		RQM
	Empc Correction				474	195	3	7	65		M
395.7995	46:23	46:23	-2	0.938	452	186	2	5	93	2.51(0.89-1.21)	
PCB-190											
393.8025	46:55						3	7			
395.7995	46:55						2	5			
PCB-189											
393.8025	49:29						185	462			
395.7995	49:29						85	212			
PCB-202L											
439.8038	42:19	42:20	-1	0.821	1363289	265093	1	2	265093		
441.8008	42:19	42:20	-1	0.821	1487374	293121	52	130	5637	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:34	51:35	-1		2133975	395608	123	307	3216		
441.8008	51:34	51:35	-1		2288020	426634	105	262	4063	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:03	52:02	0	1.009	2400109	444948	123	307	3617		
441.8008	52:03	52:02	0	1.009	2654821	490380	105	262	4670	0.90(0.76-1.02)	
PCB-202											
427.7635	42:21						7	17			
429.7606	42:21						5	12			
PCB-201											
427.7635	43:16	43:16	-1	1.022	83	31	7	17	4		RQ
429.7606	43:17	43:16	0	1.023	210	86	5	12	17	0.40(0.76-1.02)	
	Empc Correction				93	34	5	12	7		
PCB-204											
427.7635	43:56						7	17			
429.7606	43:56						5	12			
PCB-197											
427.7635	44:10						7	17			
429.7606	44:10						5	12			
PCB-200											
427.7635	44:18						7	17			
429.7606	44:18						5	12			
PCB-198											
427.7635	47:03						7	17			
429.7606	47:03						5	12			
PCB-199 (C198)											
427.7635	47:03						7	17			
429.7606	47:03						5	12			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											RQ
427.7635	47:43	47:44	-1	0.917	410	193	7	17	28		
	Empc Correction				162	60	7	17	9		
429.7606	47:43	47:44	-1	0.917	183	68	5	12	14	2.24(0.76-1.02)	
PCB-203											
427.7635	47:56						7	17			
429.7606	47:56						5	12			
PCB-195											RQU
427.7635	49:16						2	5			
429.7606	49:16						7	17			
PCB-194											
427.7635	51:36						2	5			
429.7606	51:36						7	17			
PCB-205											
427.7635	52:04						2	5			
429.7606	52:04						7	17			
PCB-208L											
473.7648	48:59	48:59	-1	0.950	1788565	358799	267	667	1344		
475.7619	48:59	48:59	-1	0.950	2251343	434236	190	475	2285	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	-1	1.043	1315104	241515	267	667	905		
475.7619	53:47	53:47	-1	1.043	1646888	310364	190	475	1633	0.80(0.65-0.89)	
PCB-208											
461.7246	49:00						86	215			
463.7216	49:00						146	365			
PCB-207											
461.7246	49:55						86	215			
463.7216	49:55						146	365			
PCB-206											
461.7246	53:48						86	215			
463.7216	53:48						146	365			
PCB-209L											
507.7258	55:24	55:23	-1	1.074	1192154	215673	95	237	2270		
509.7229	55:24	55:23	-1	1.074	1659771	298464	92	230	3244	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											M
495.6856	55:26	55:26	1	1.001	1260	266	5	12	53		M
497.6826	55:27	55:26	2	1.001	1904	672	6	15	112	0.66(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

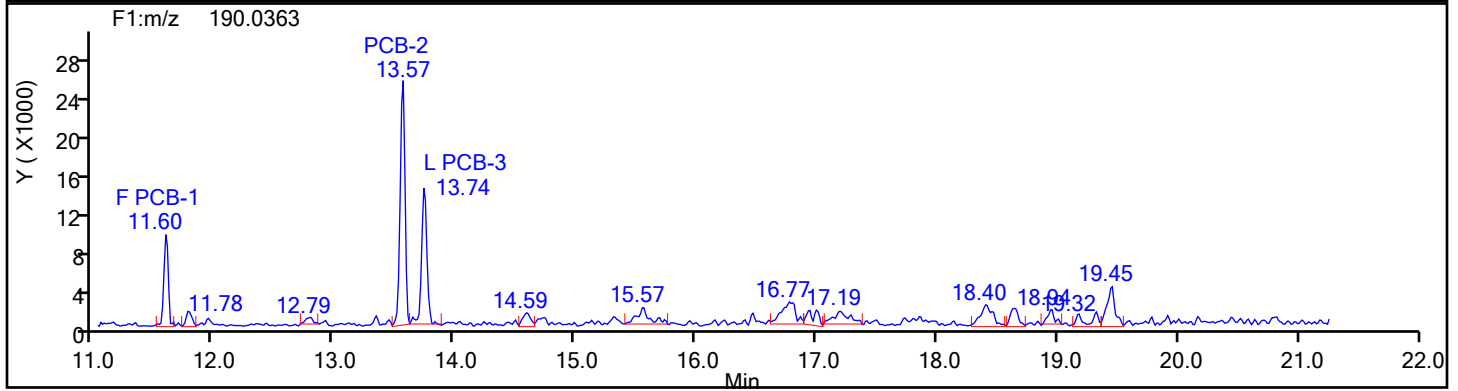
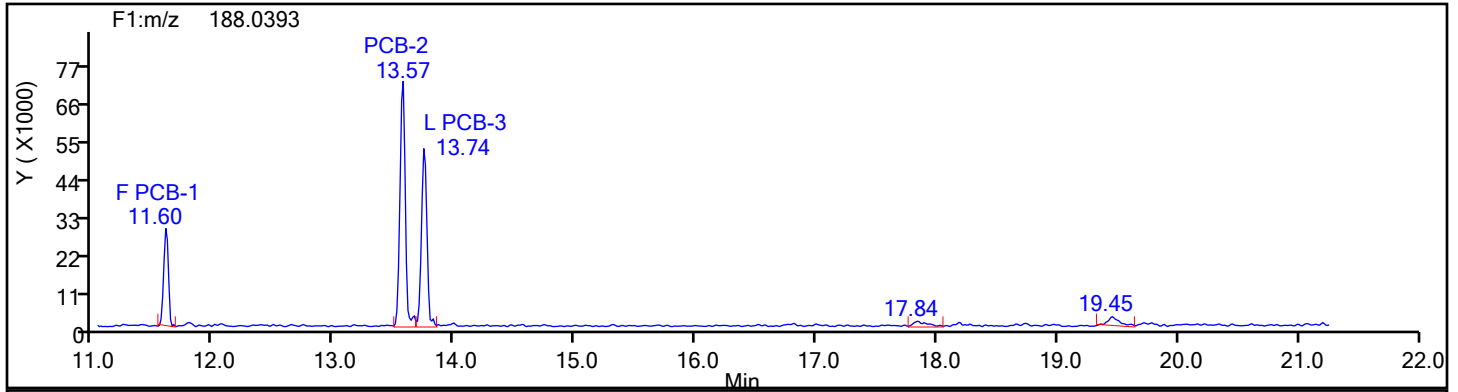
M - Manually Integrated

U - Marked Undetected

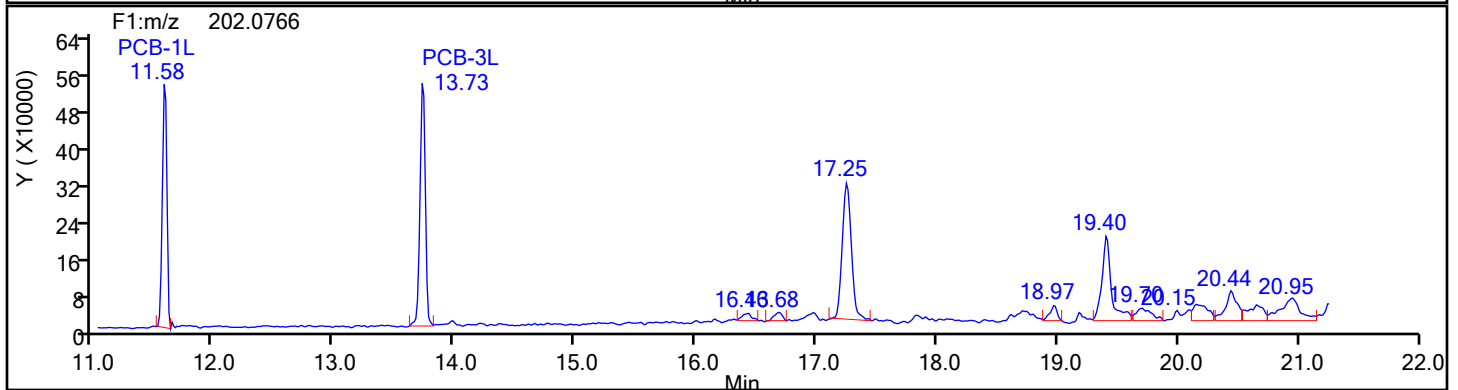
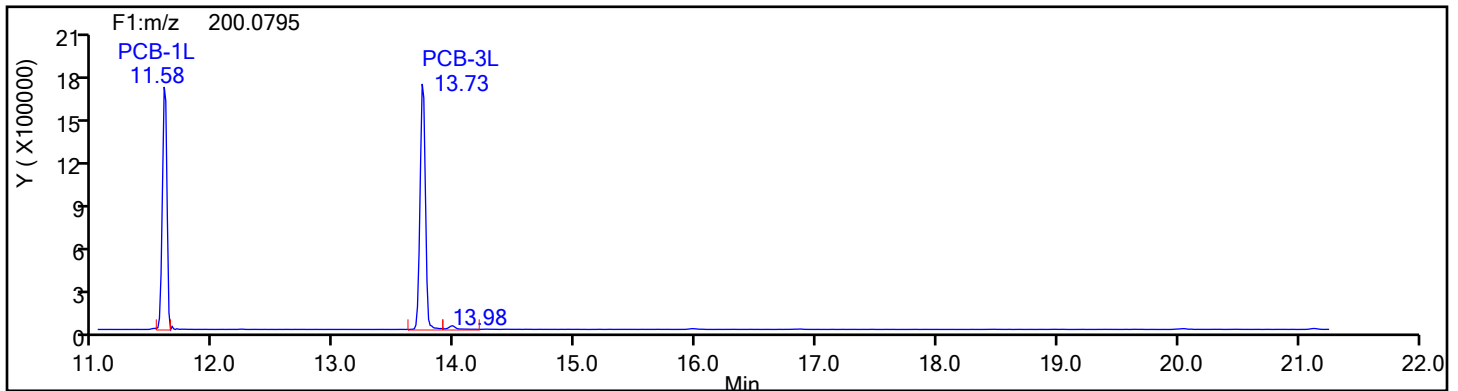
a - User Assigned ID

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Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

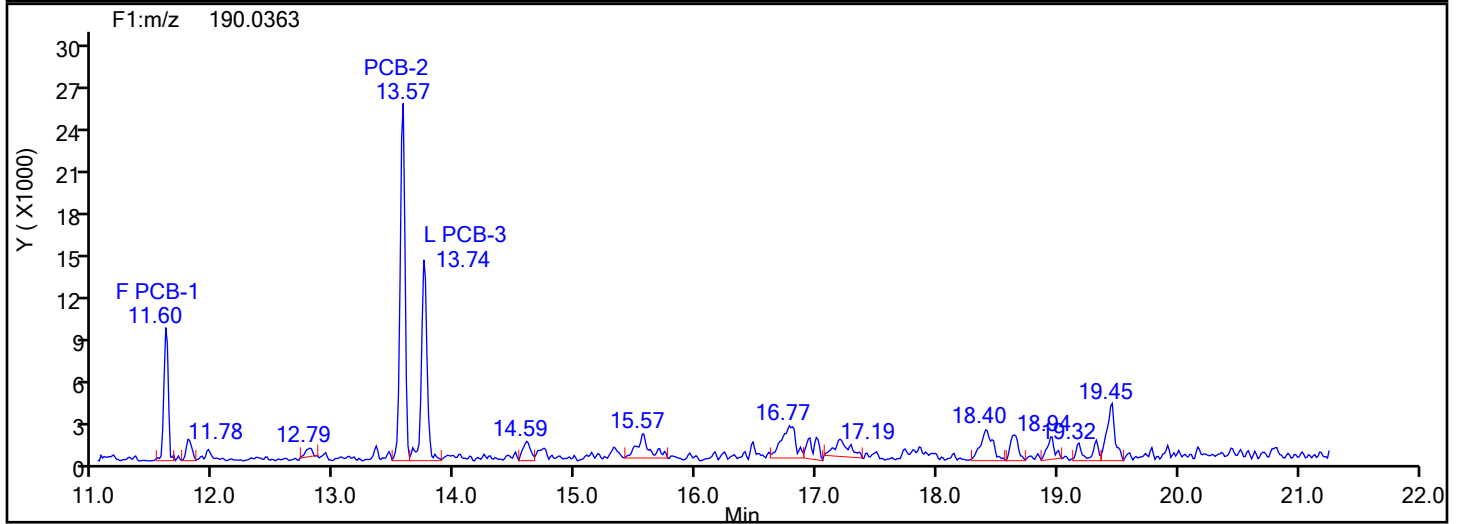
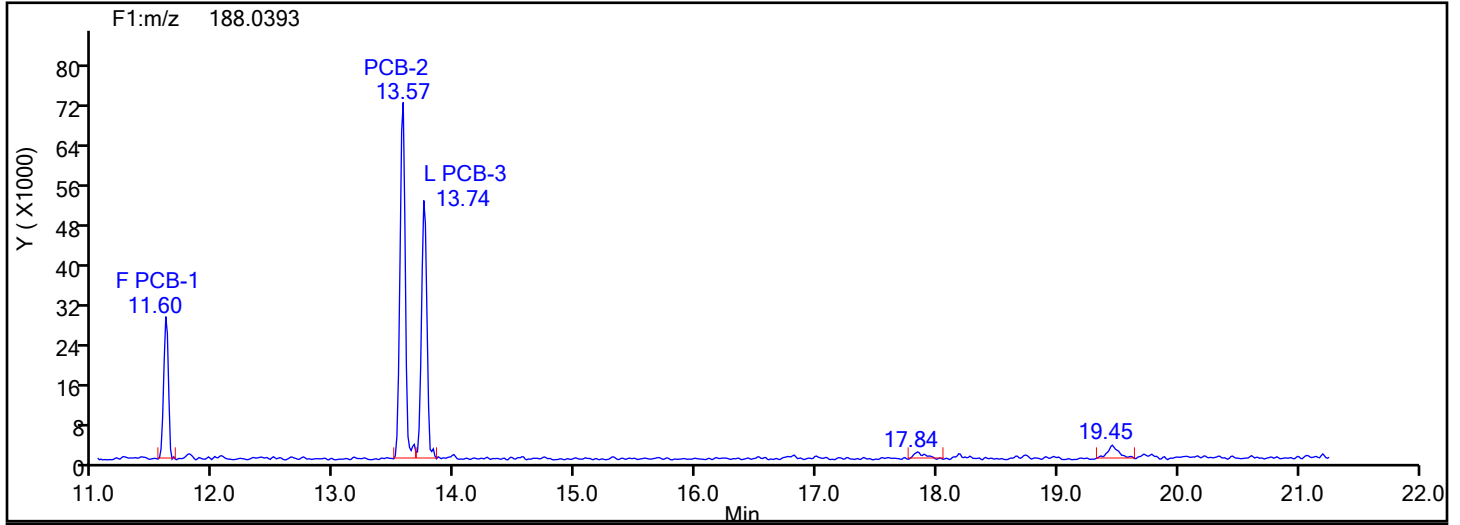


MoPCB F1 Standards

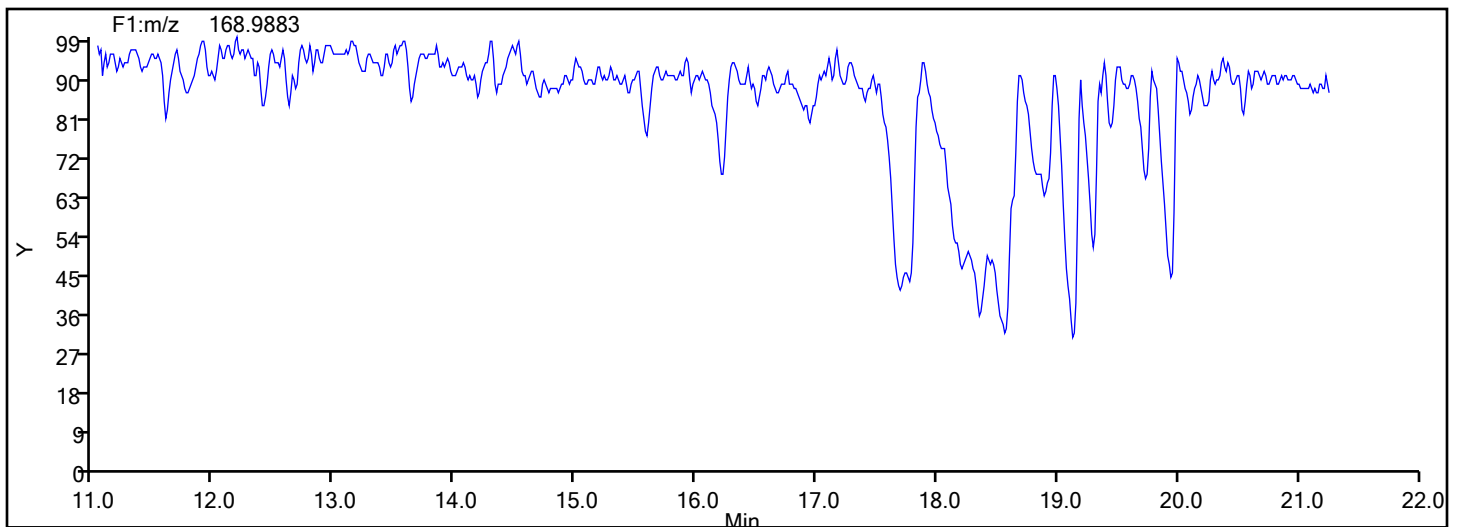


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

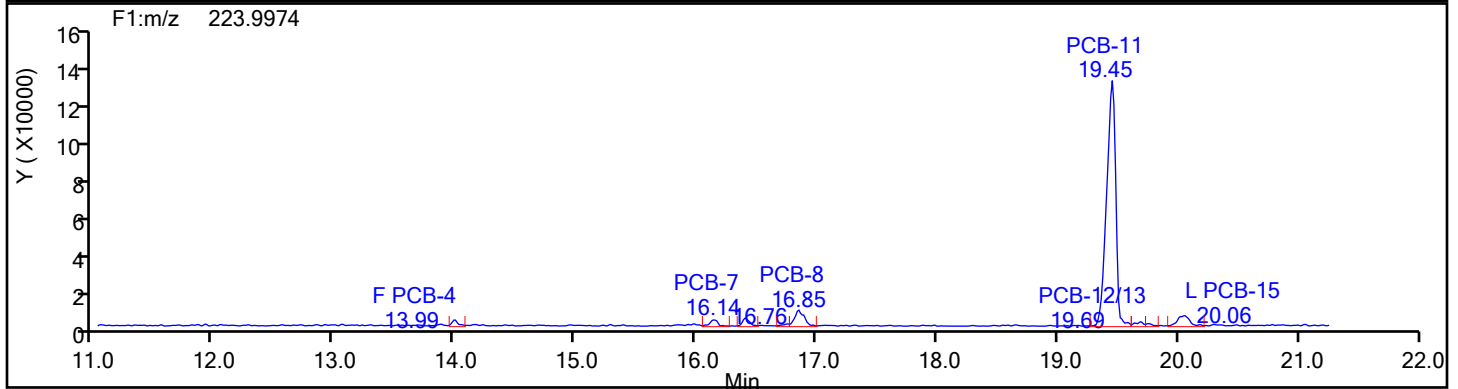
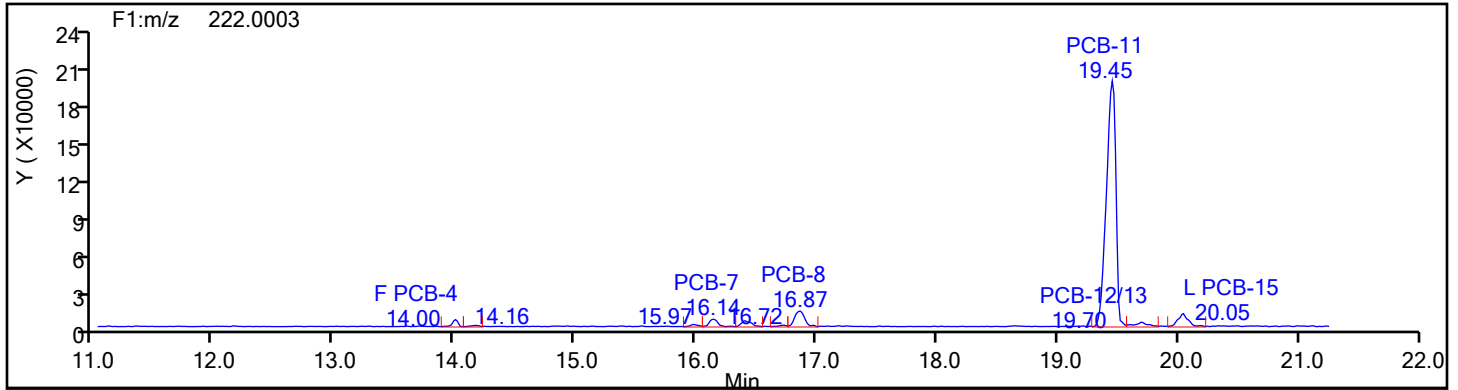


MoPCB F1 Lock Mass

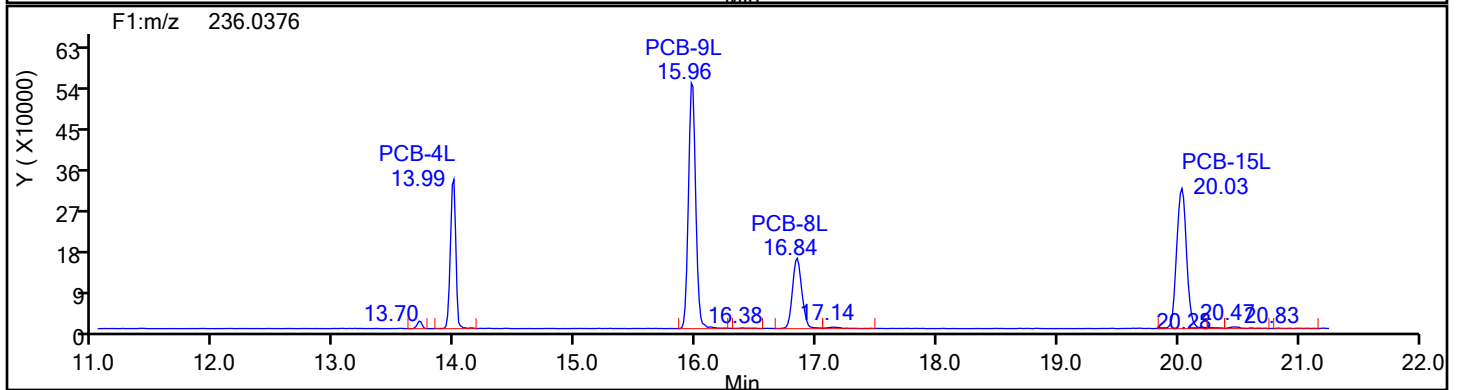
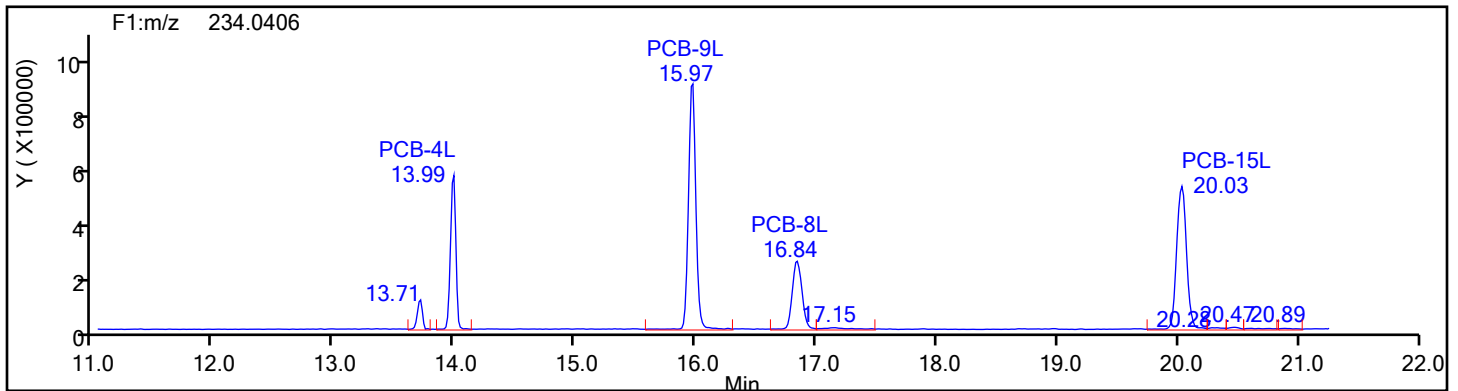


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

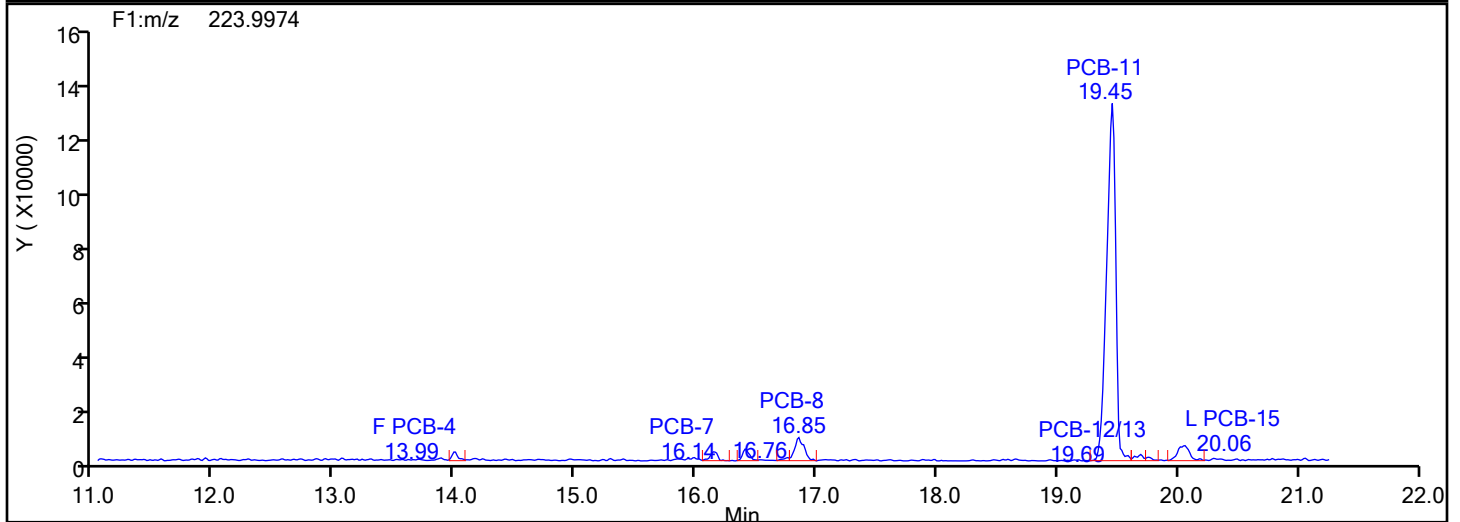
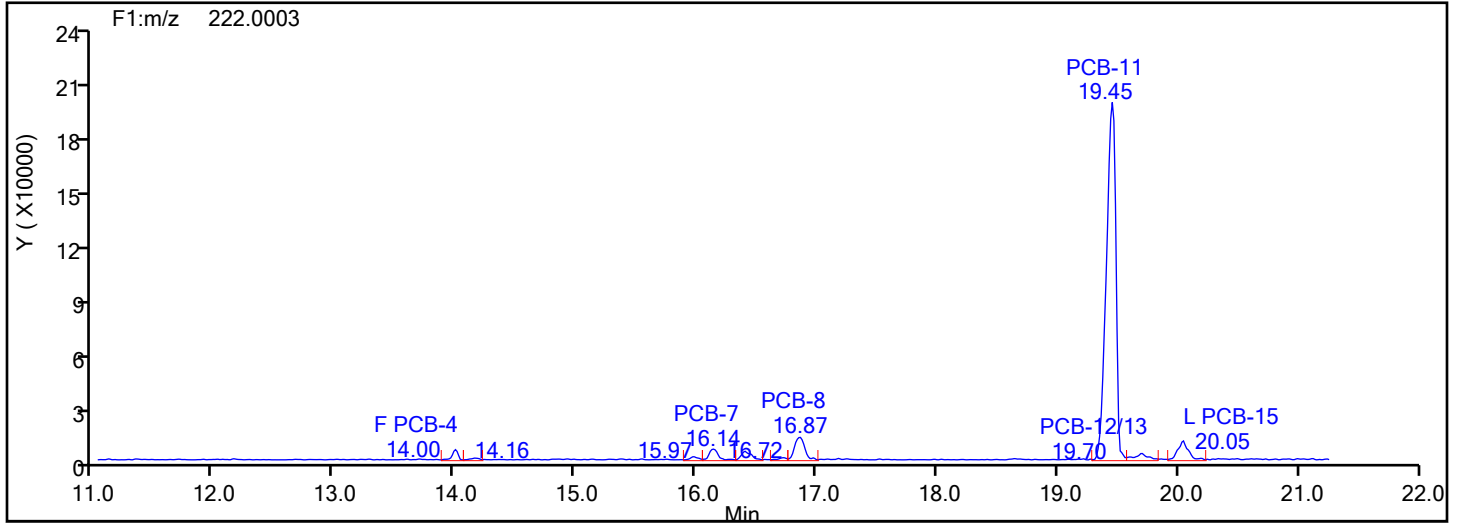


DiPCB F1 Standards

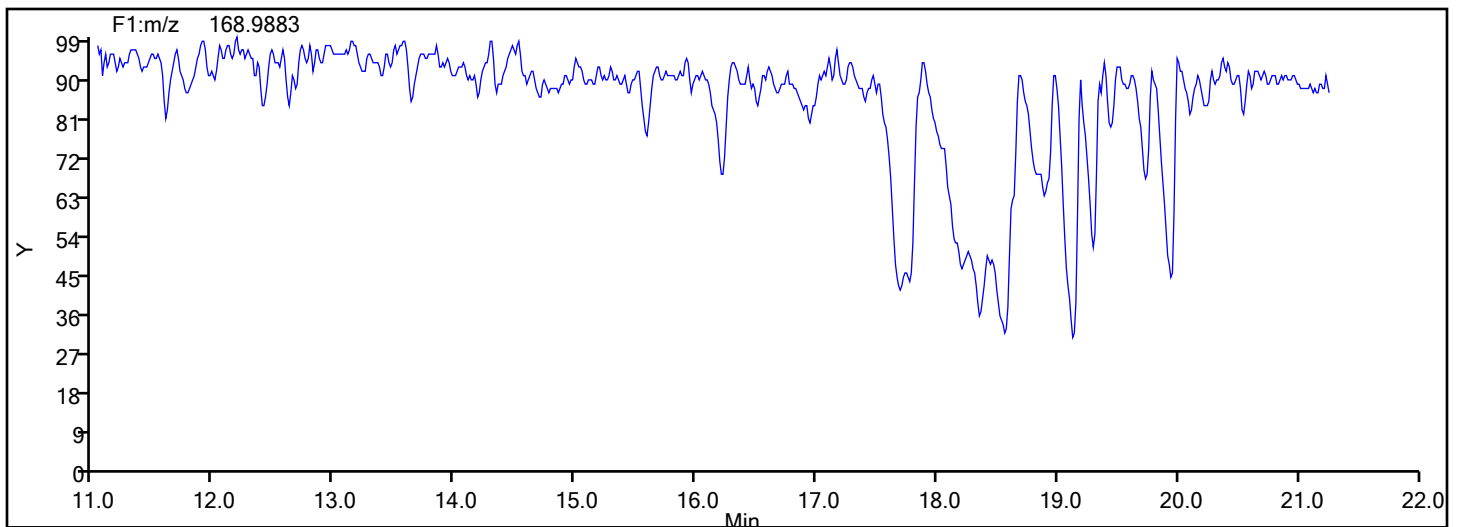


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

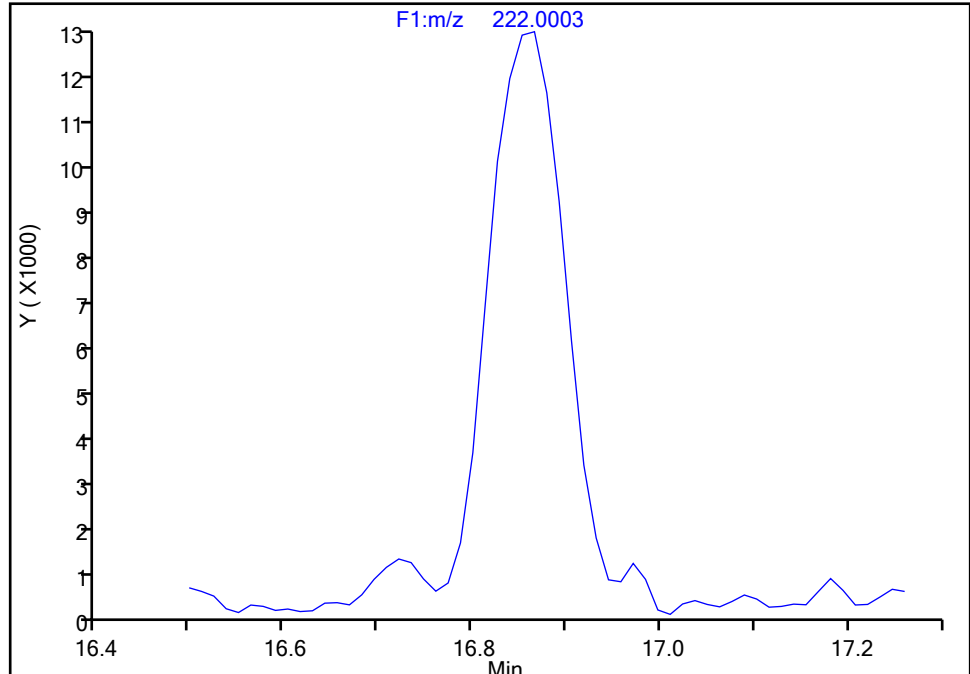
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

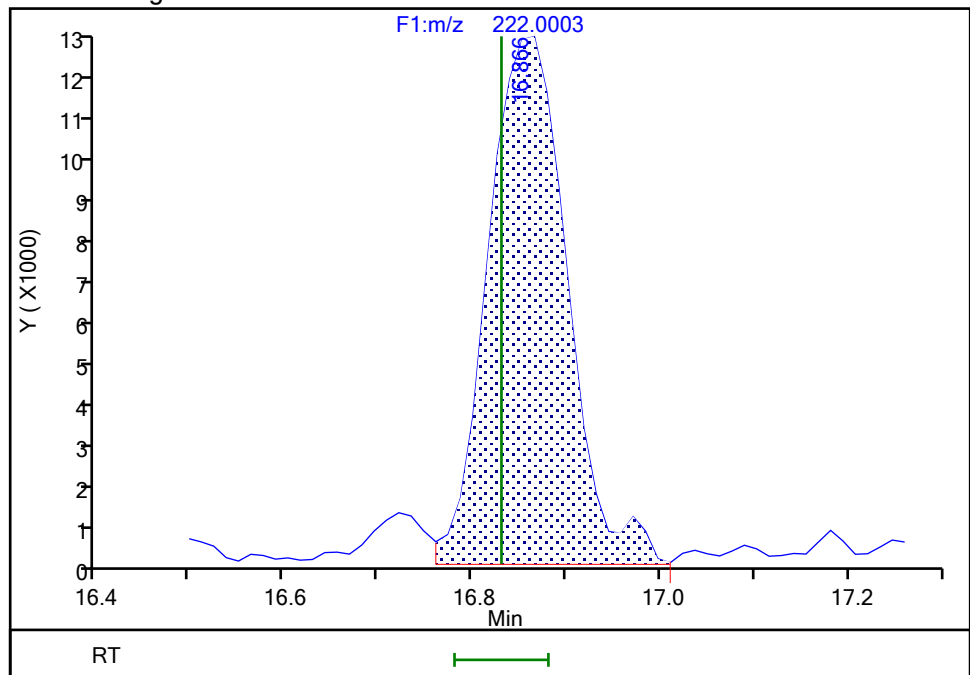
Not Detected
Expected RT: 16.83

Processing Integration Results



RT: 16.87
Area: 70440
Amount: 1.947146
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 16-Jul-2024 17:07:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

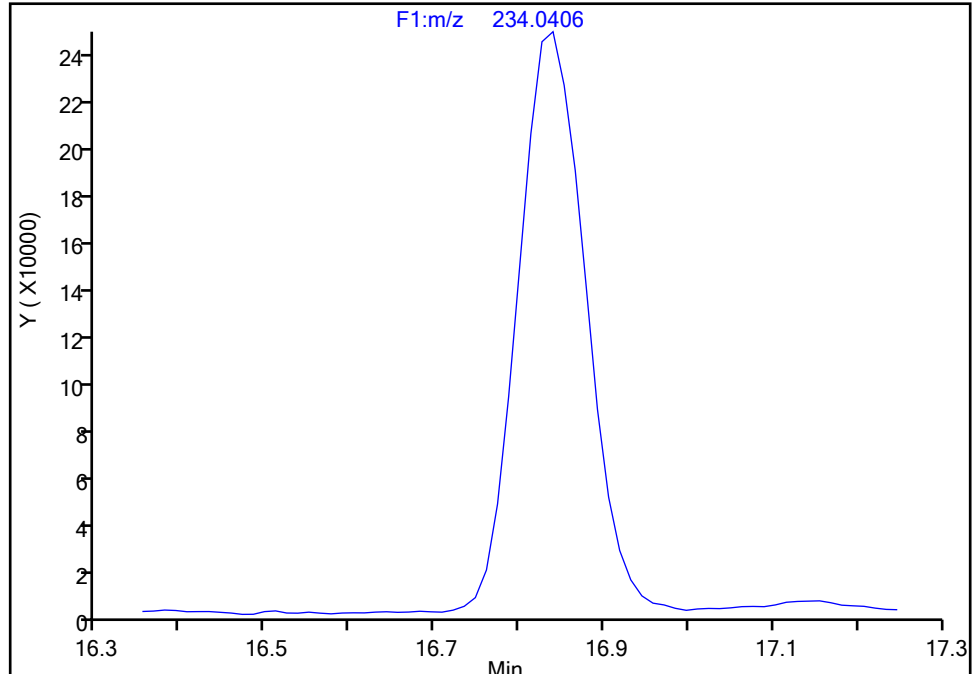
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

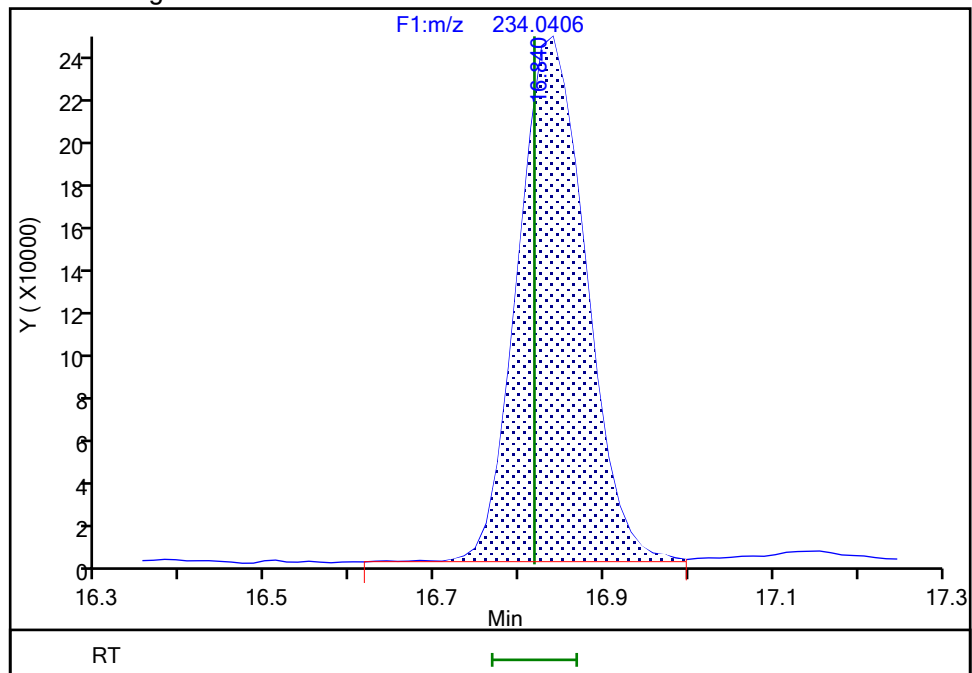
Not Detected
Expected RT: 16.82

Processing Integration Results



RT: 16.84
Area: 1350549
Amount: 49.283515
Amount Units: pg/ul

Manual Integration Results



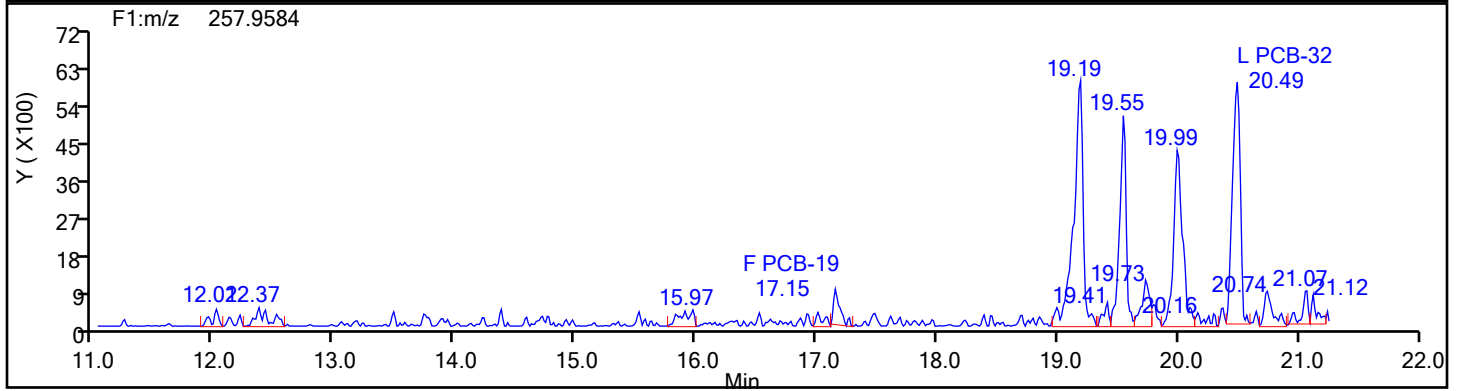
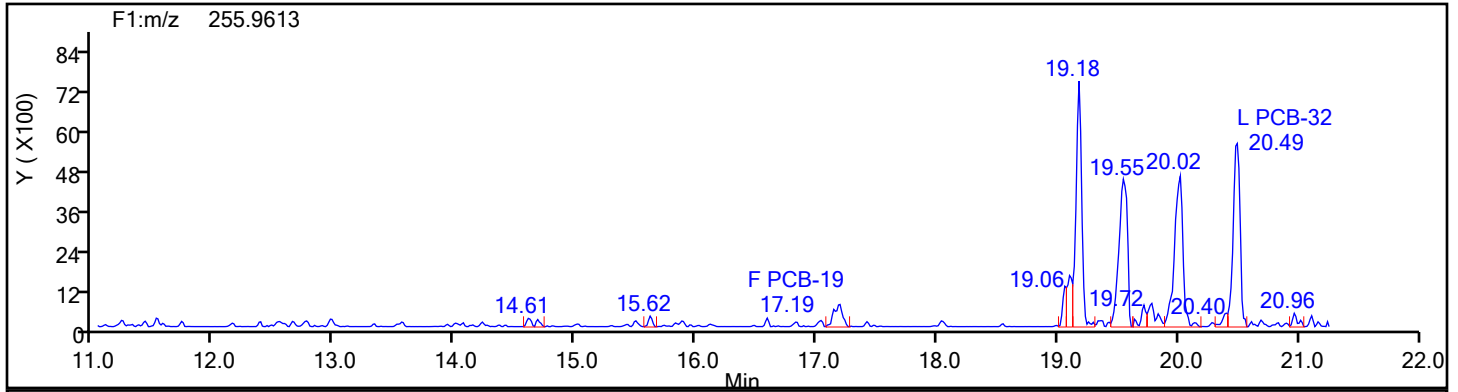
Reviewer: P0IK, 16-Jul-2024 17:06:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

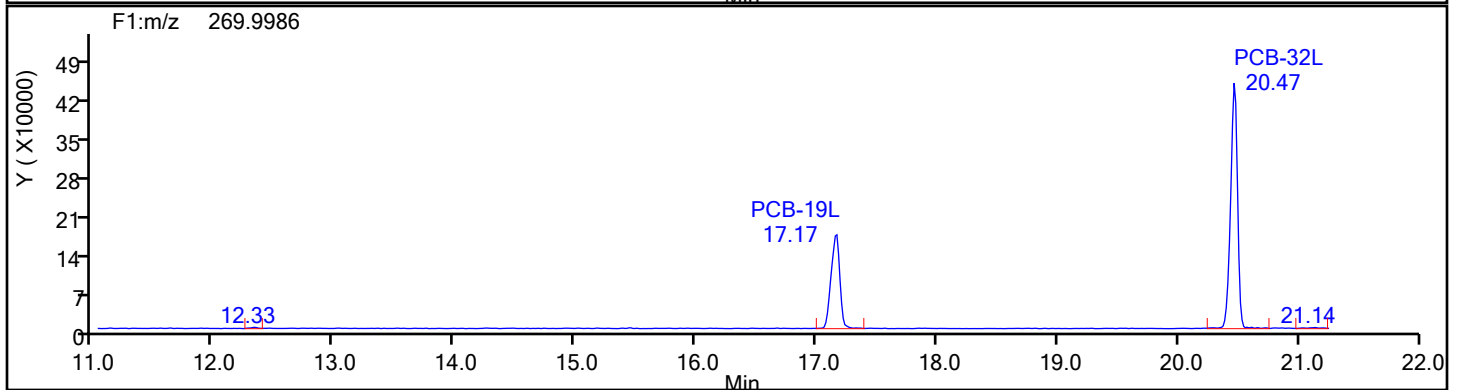
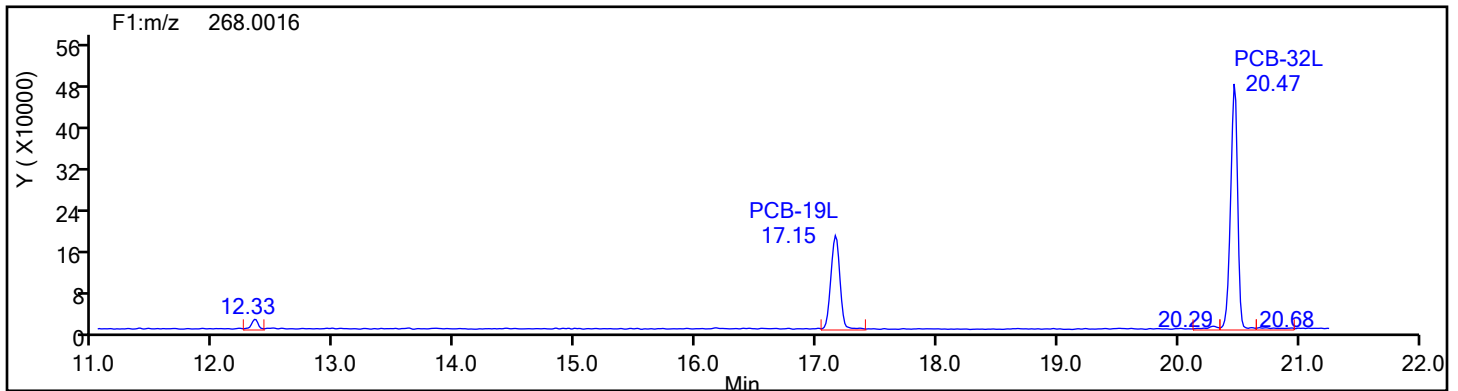
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

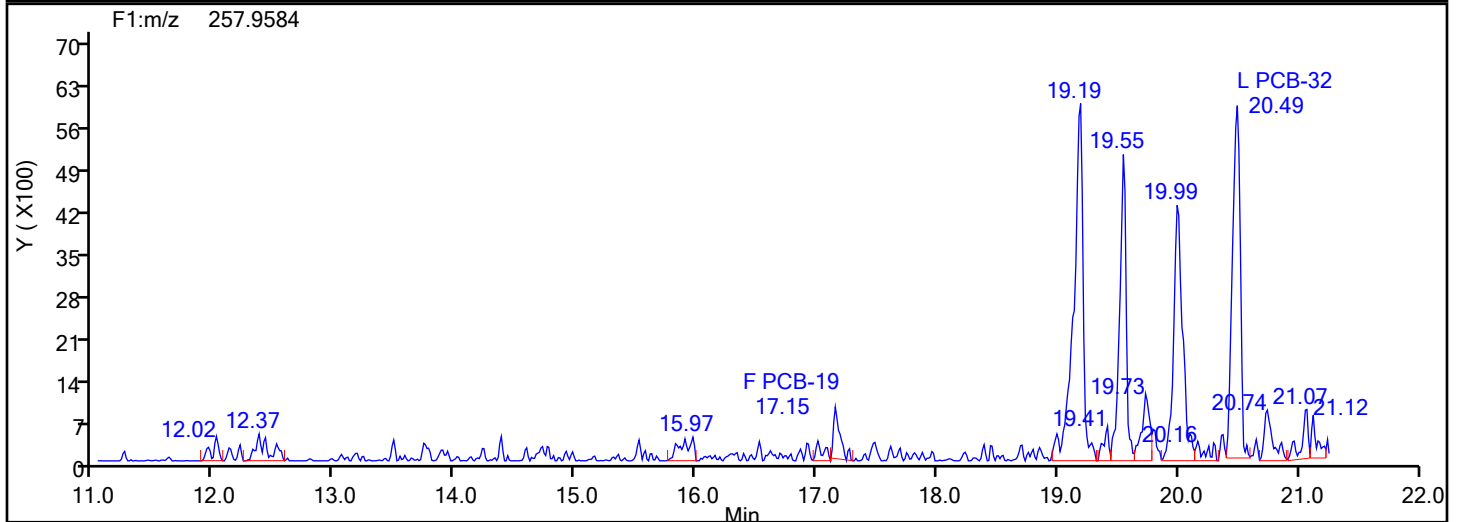
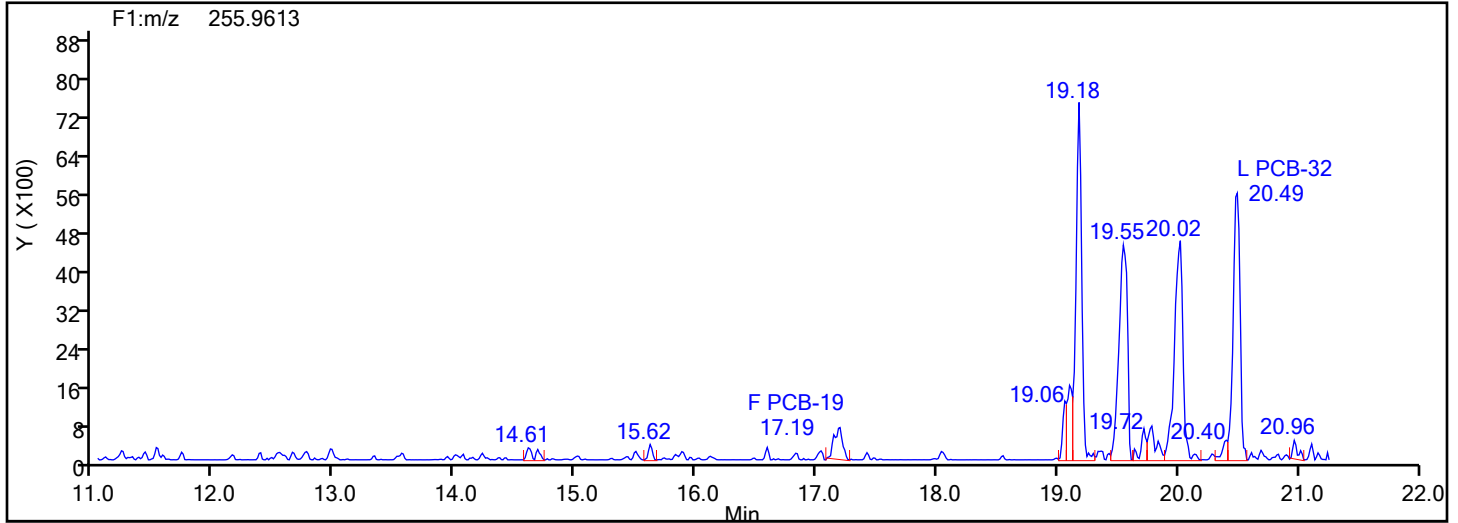


TriPCB F1 Standards

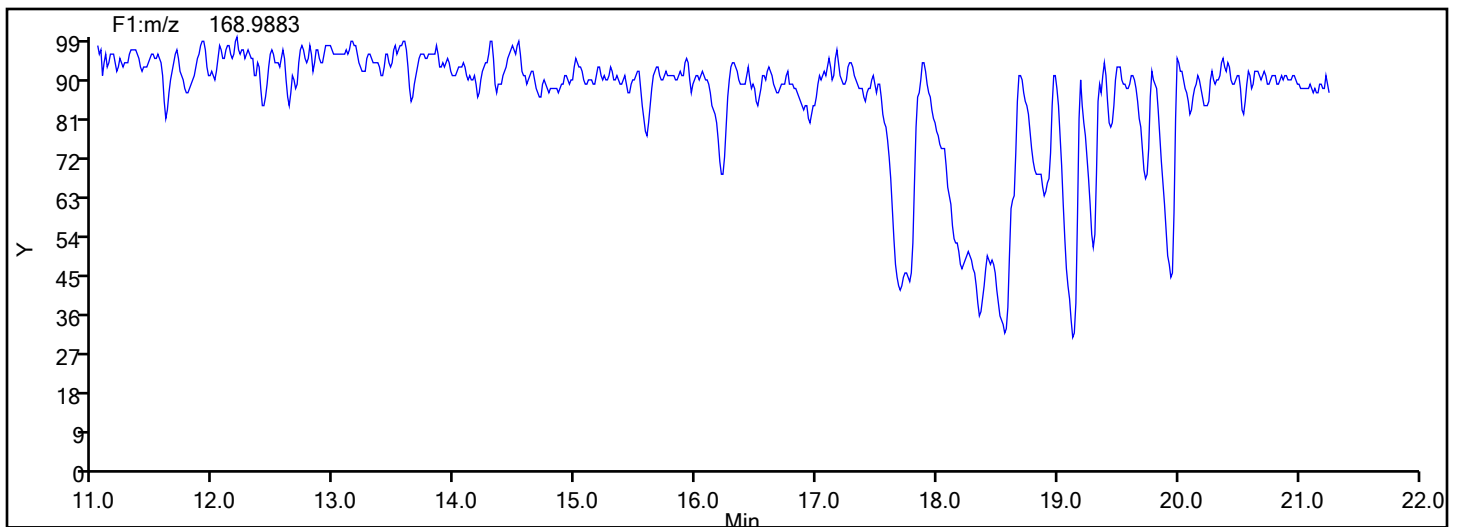


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

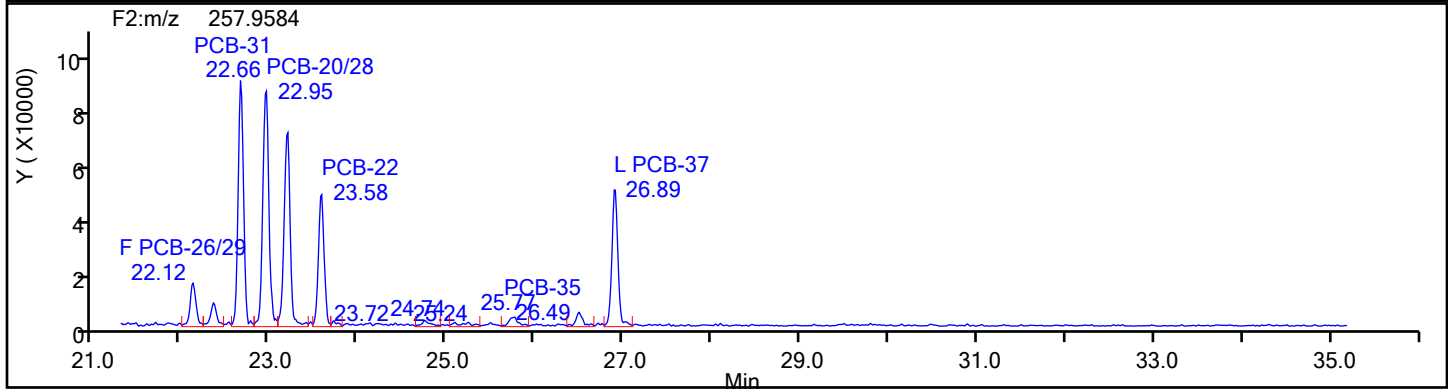
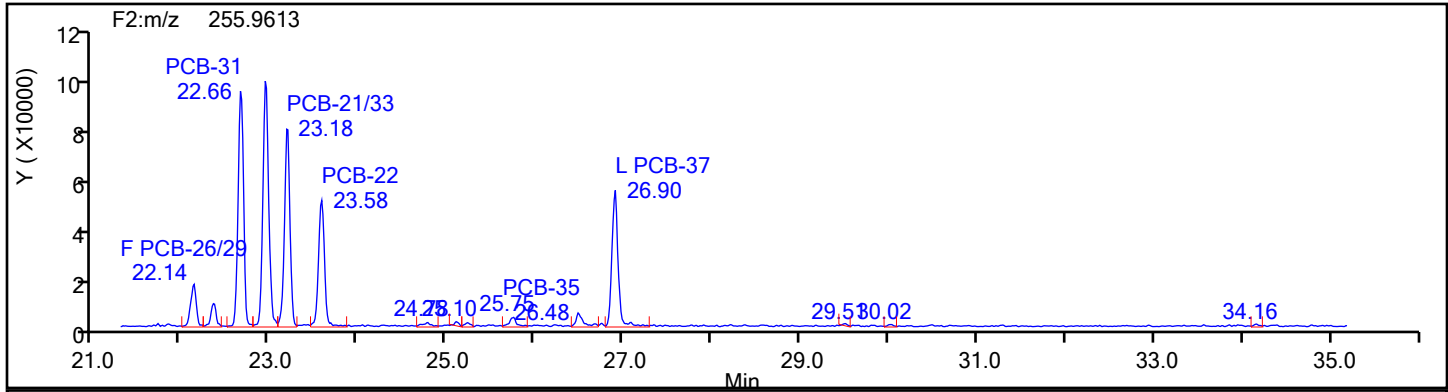


TriPCB F1 Lock Mass

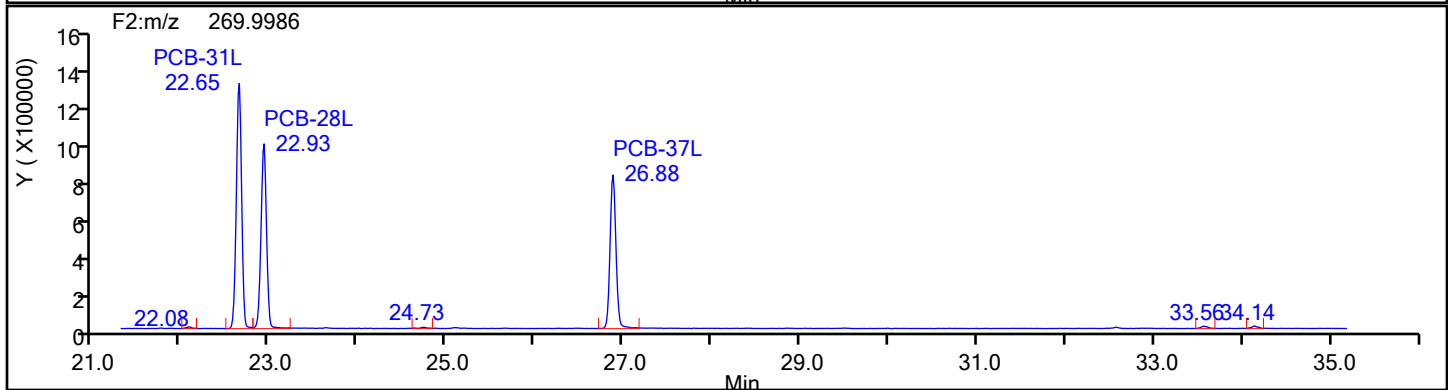
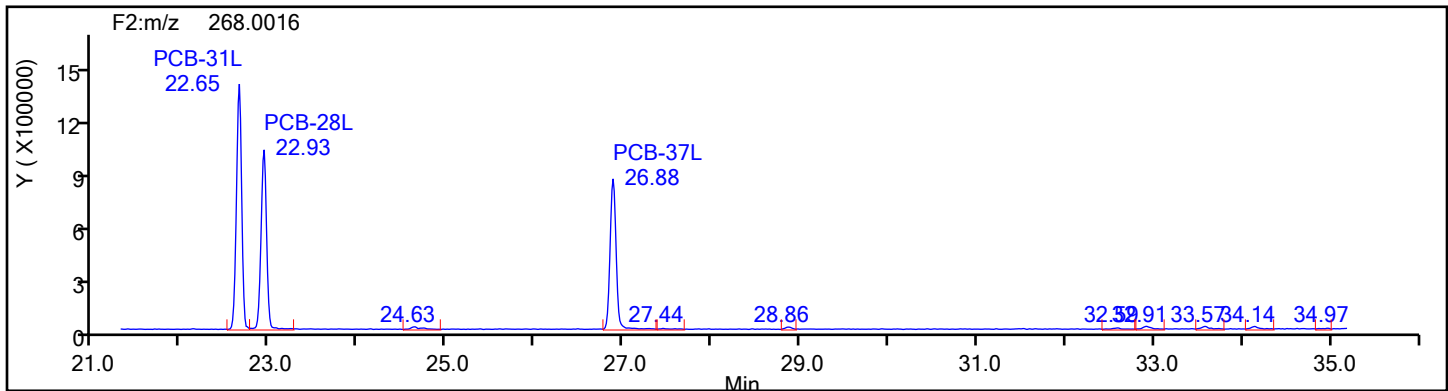


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

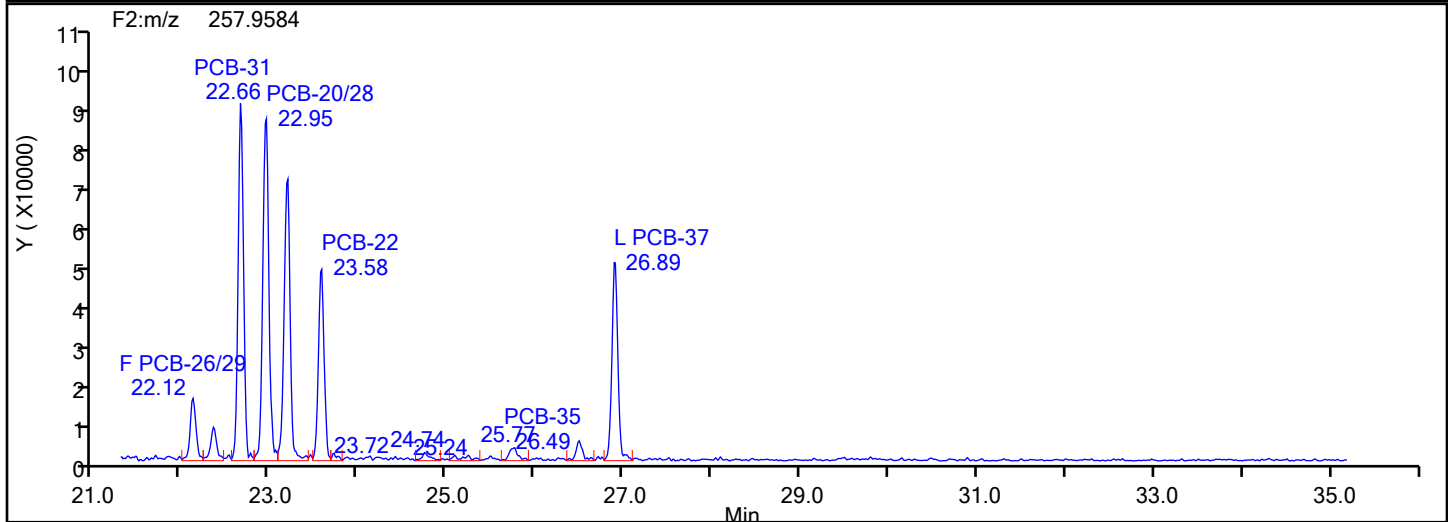
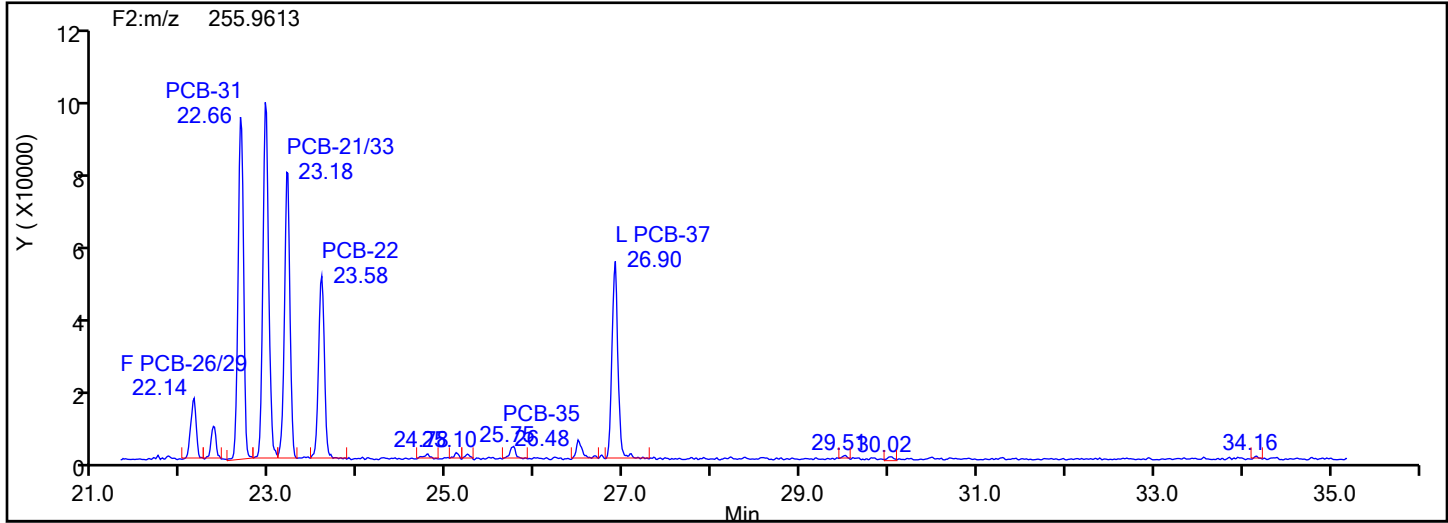


TriPCB F2 Standards

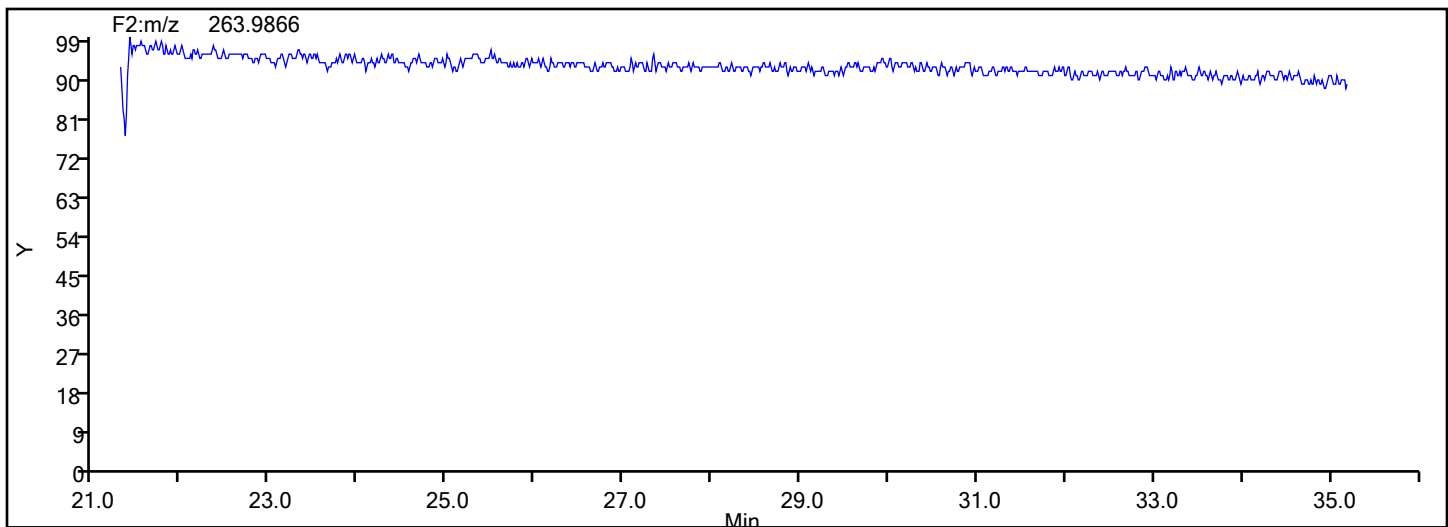


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

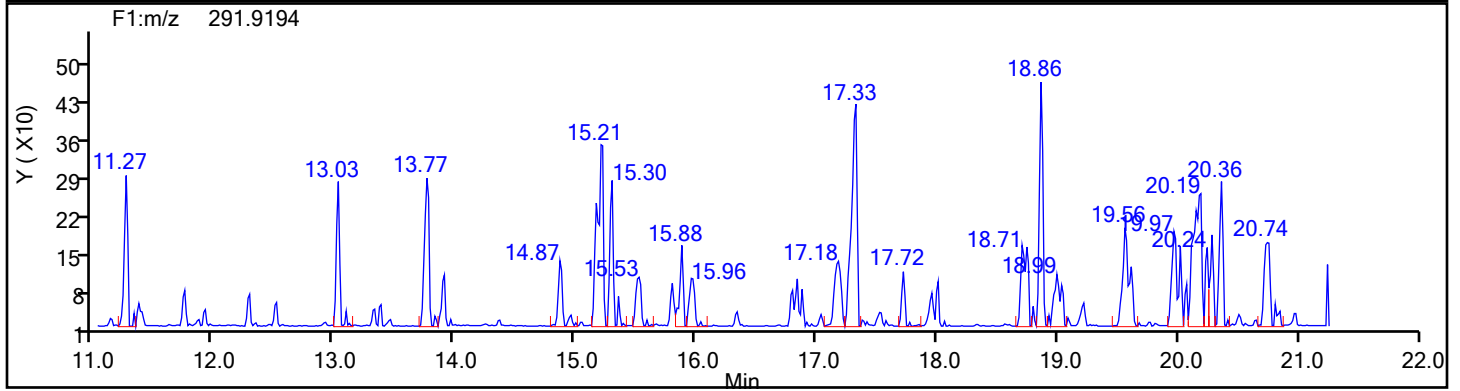
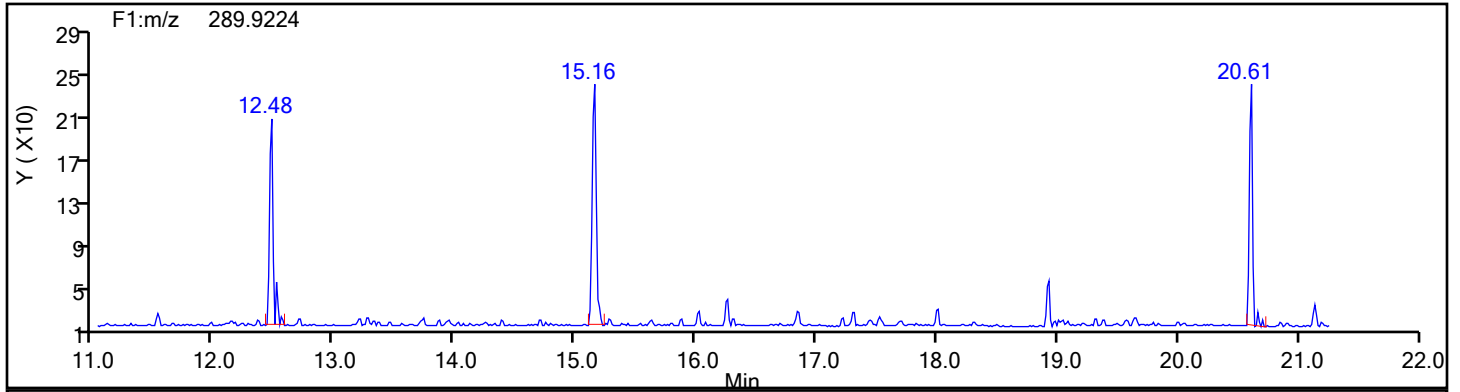


TriPCB F2 Lock Mass

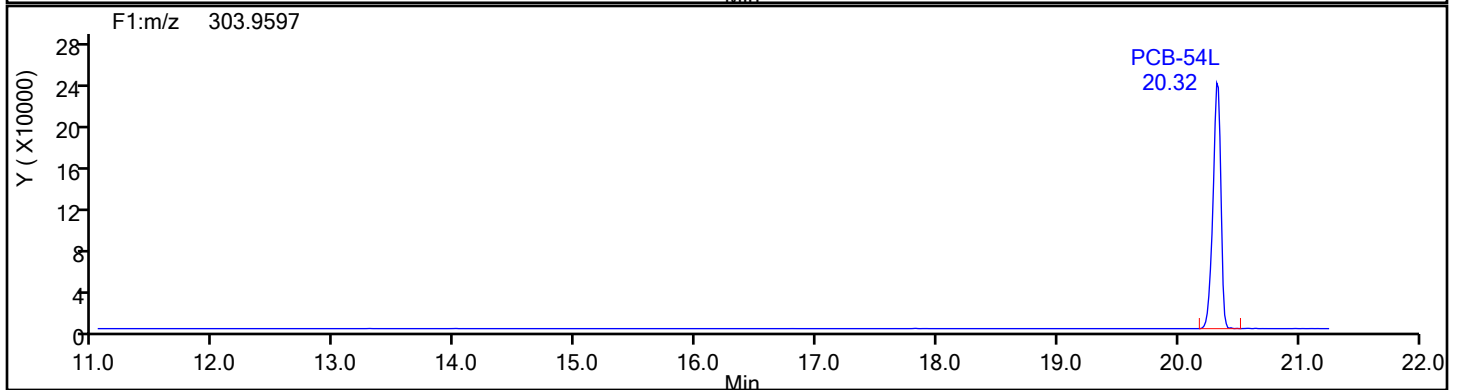
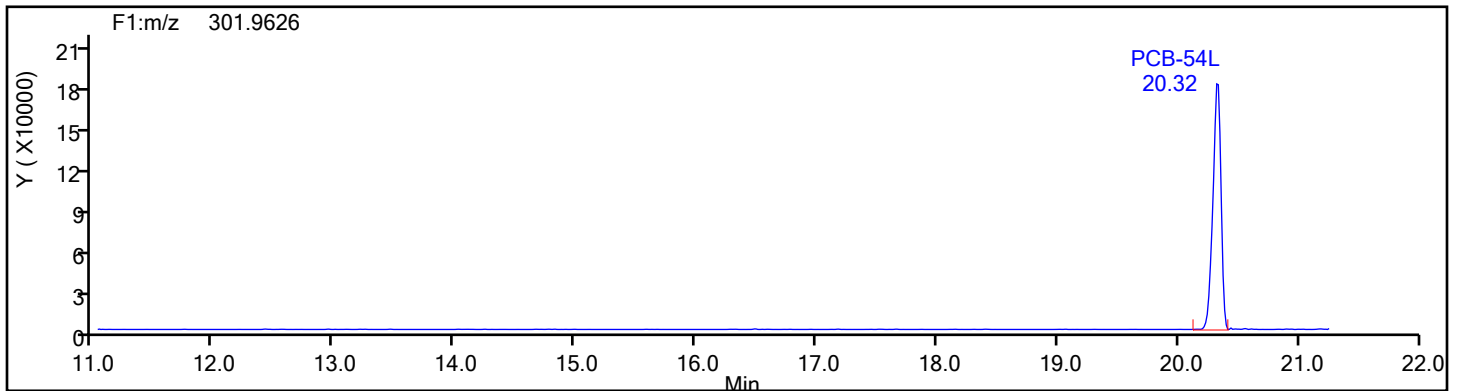


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

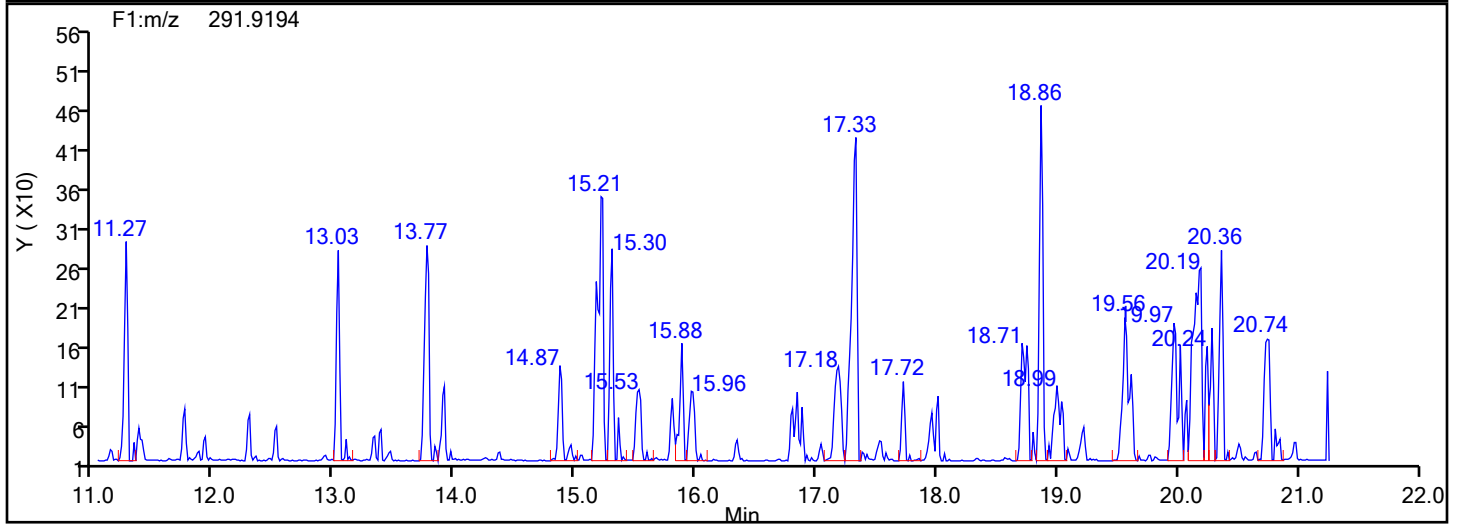
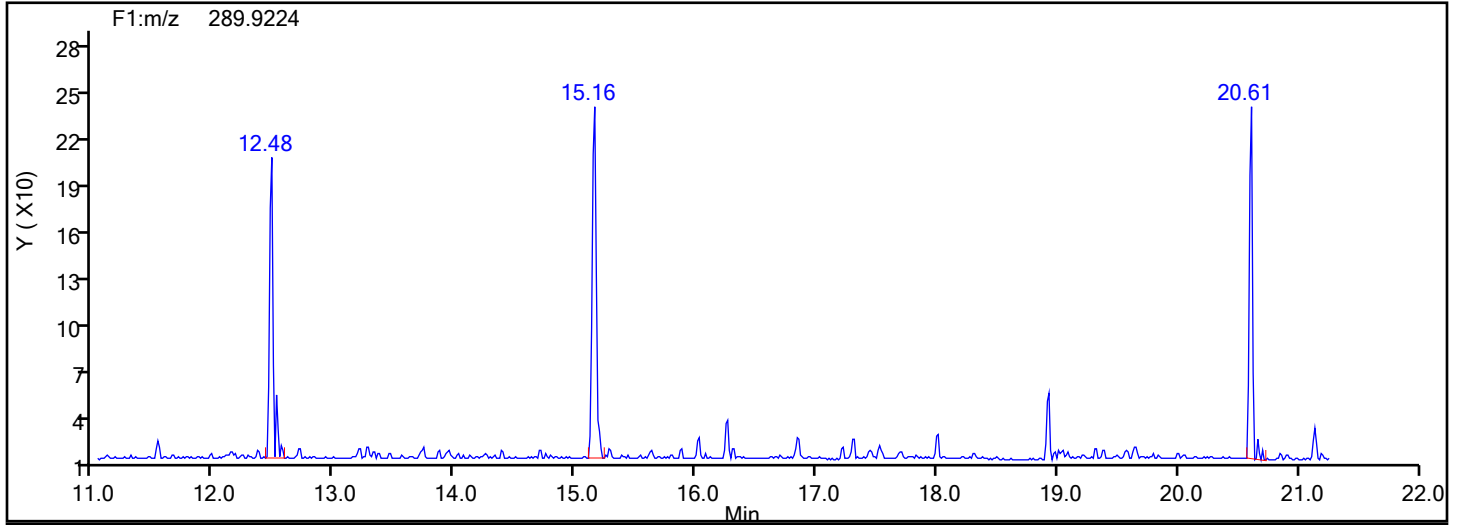


TePCB F1 Standards

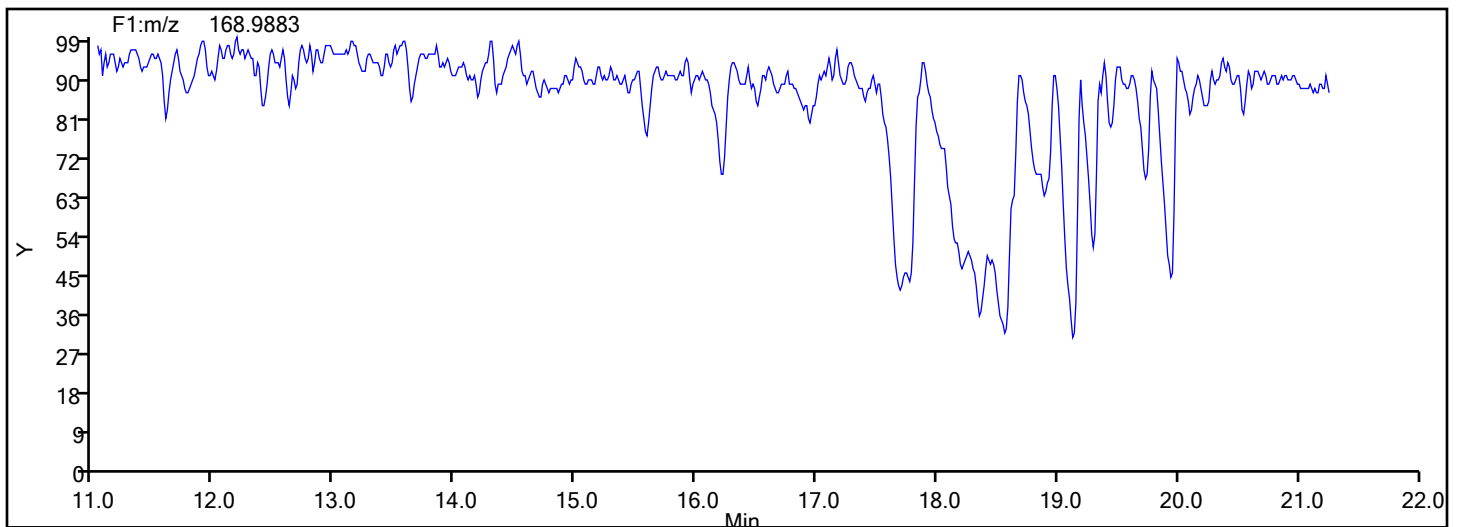


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

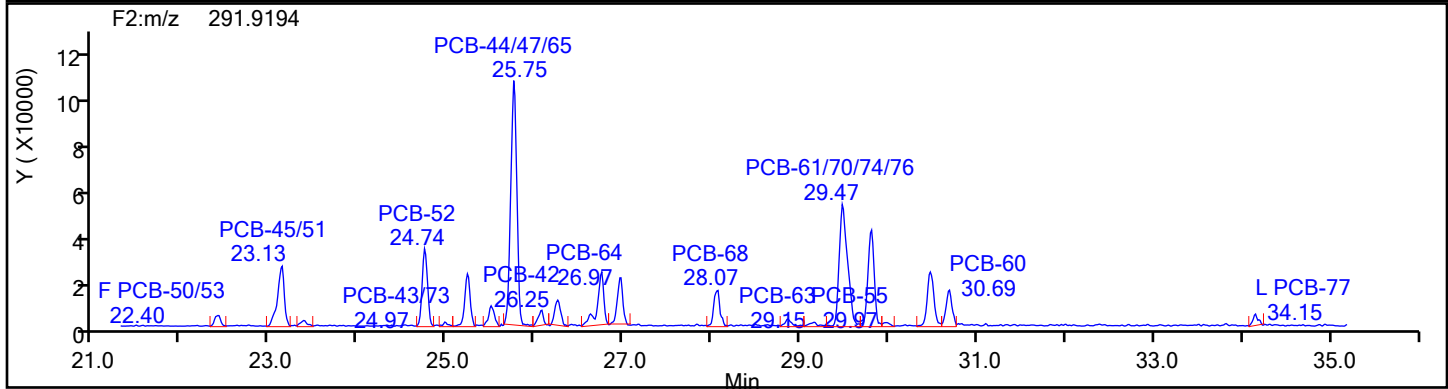
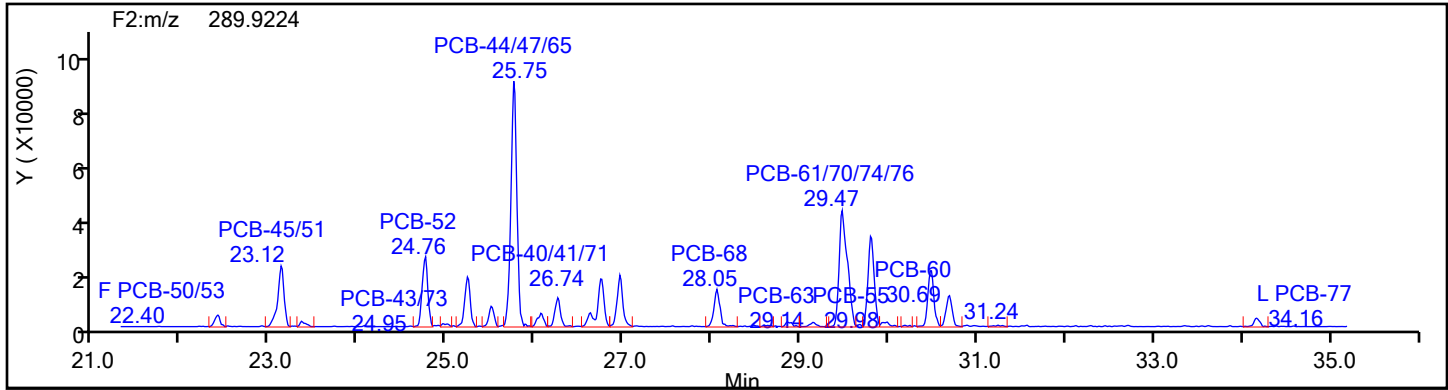


TePCB F1 Lock Mass

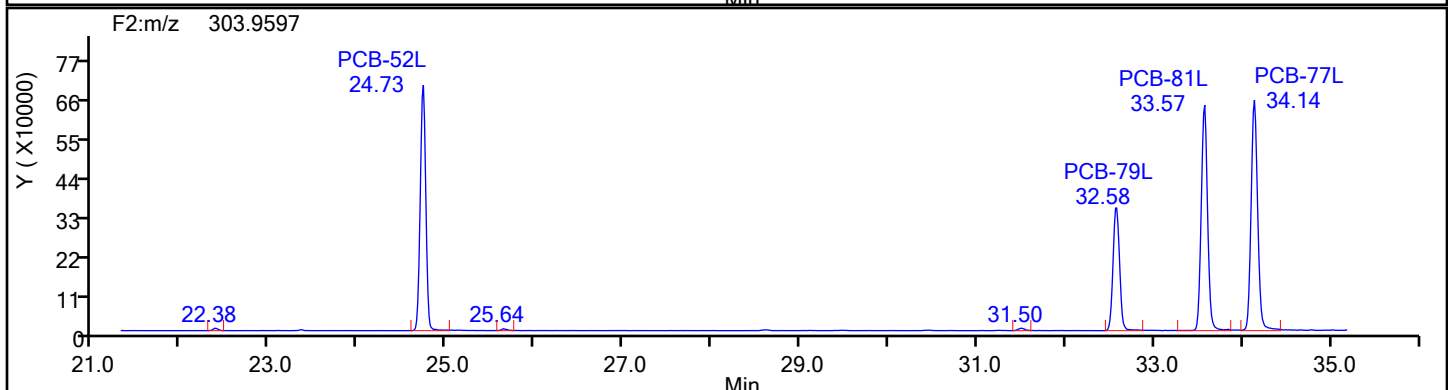
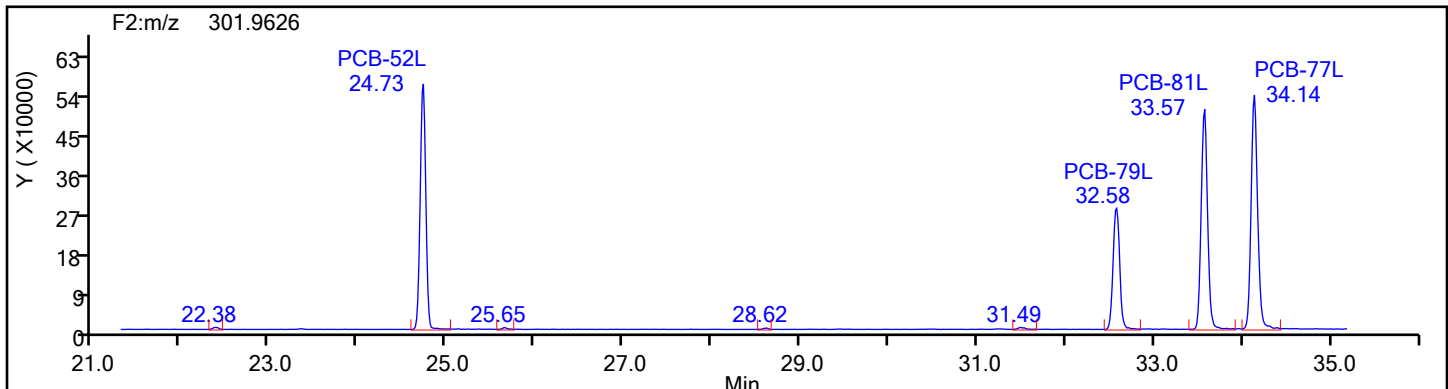


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

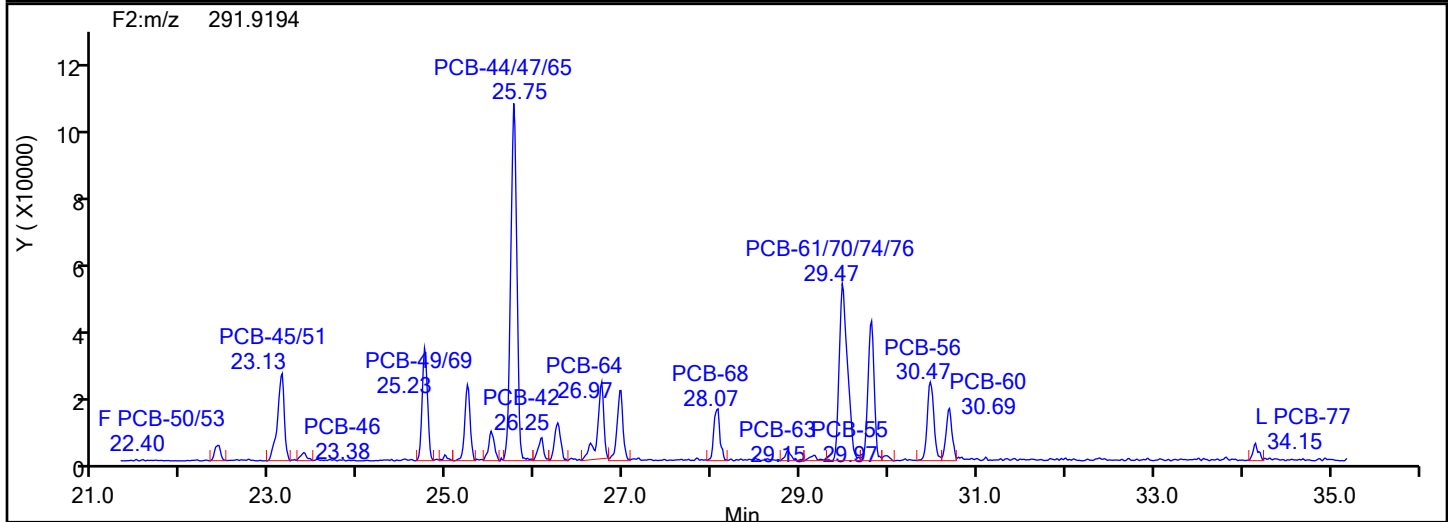
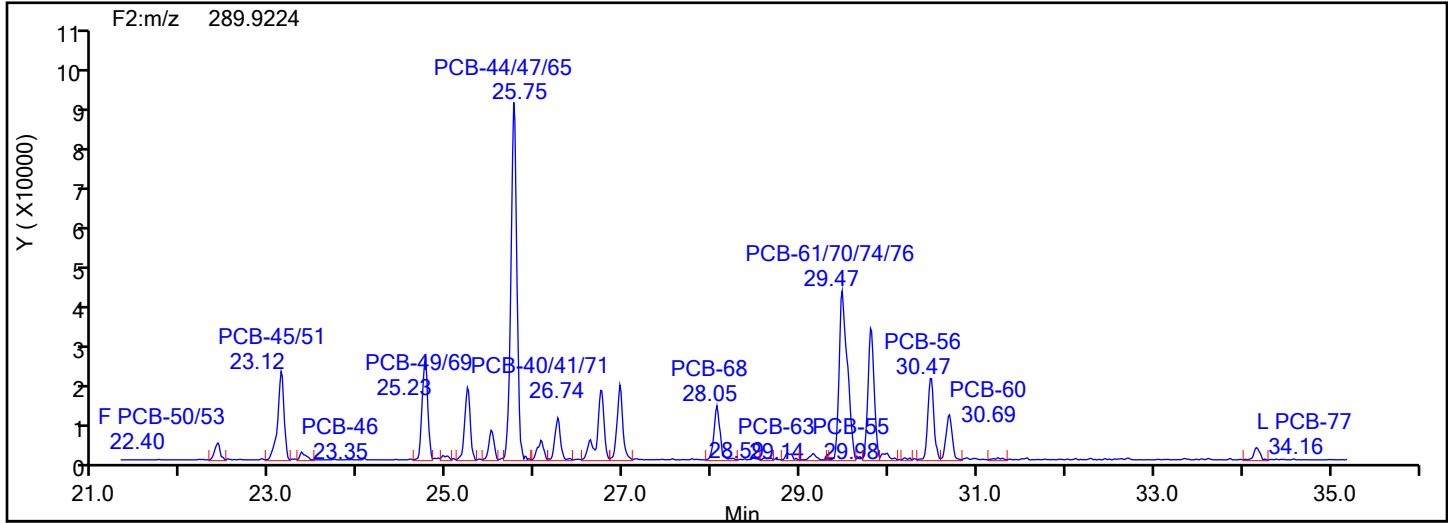


TePCB F2 Standards

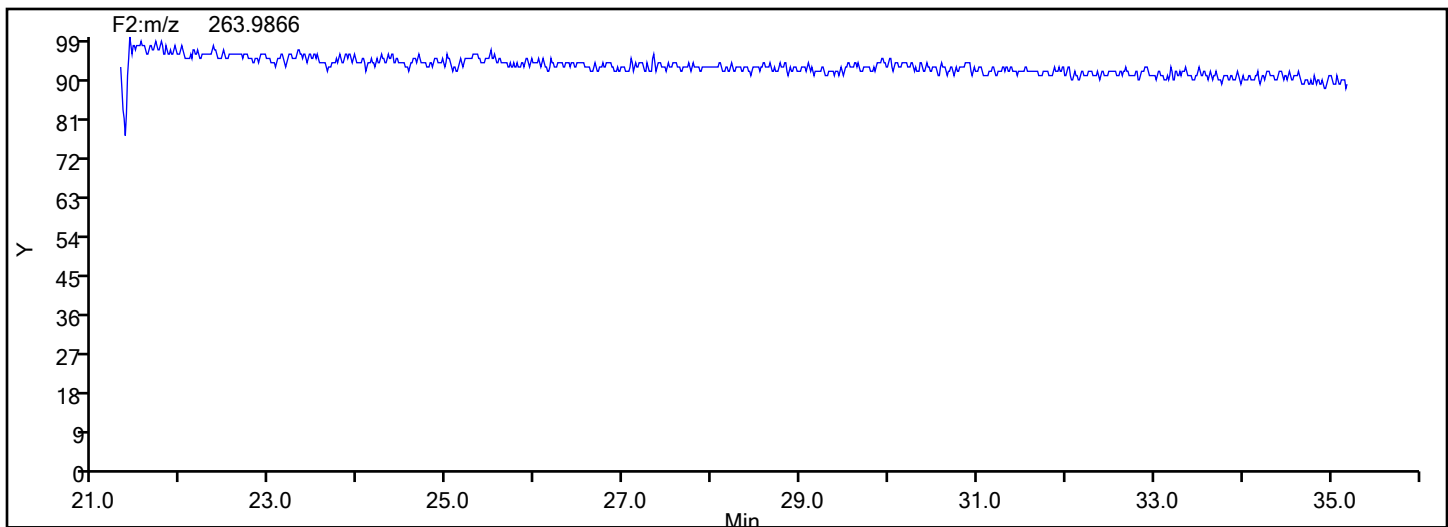


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

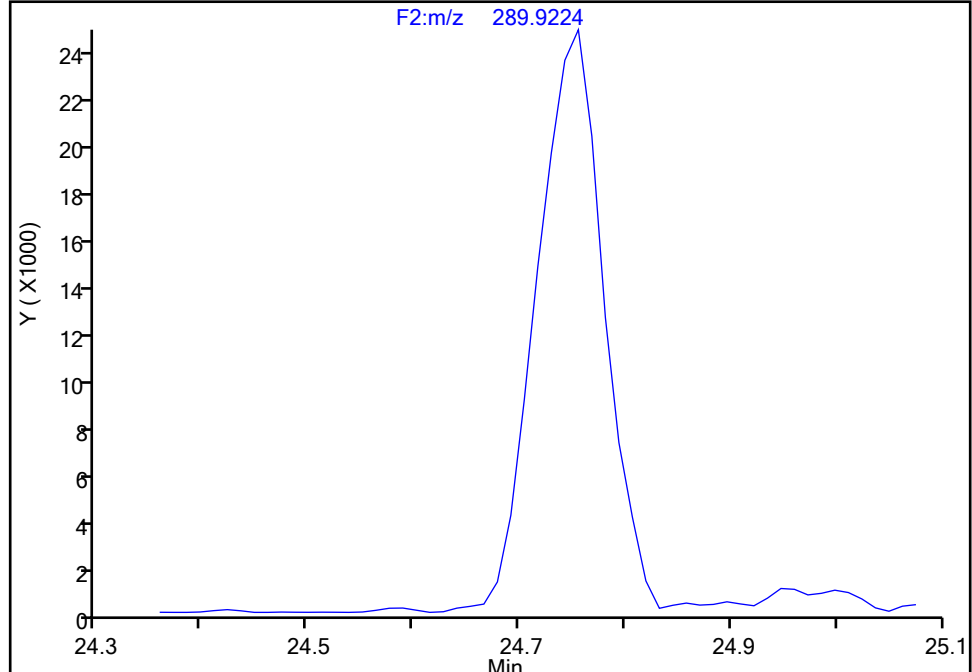
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

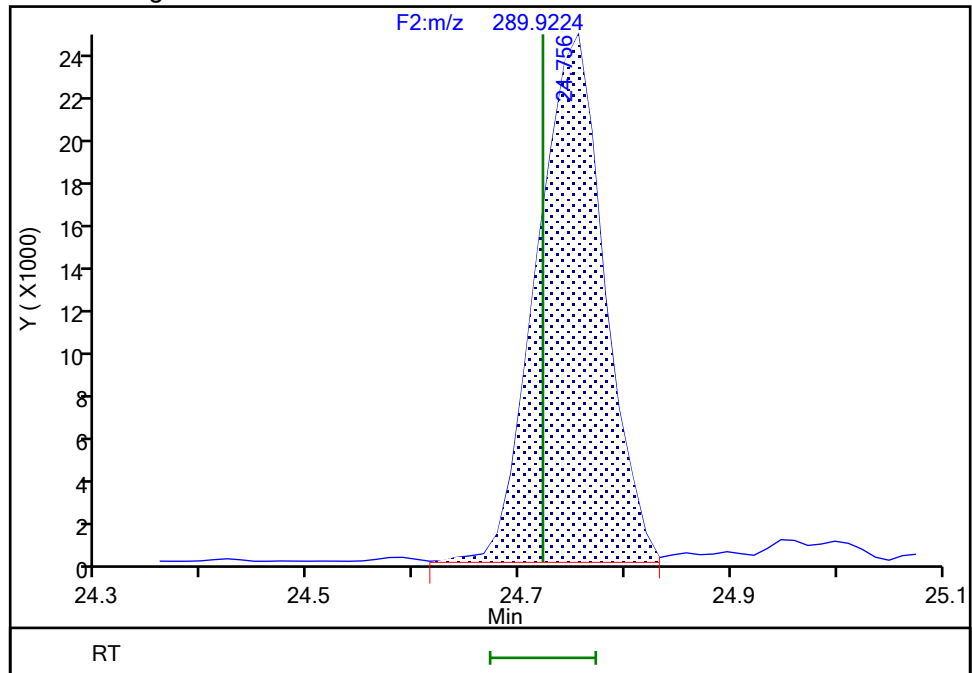
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.76
Area: 108765
Amount: 4.428067
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 16-Jul-2024 17:11:44 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Knoxville

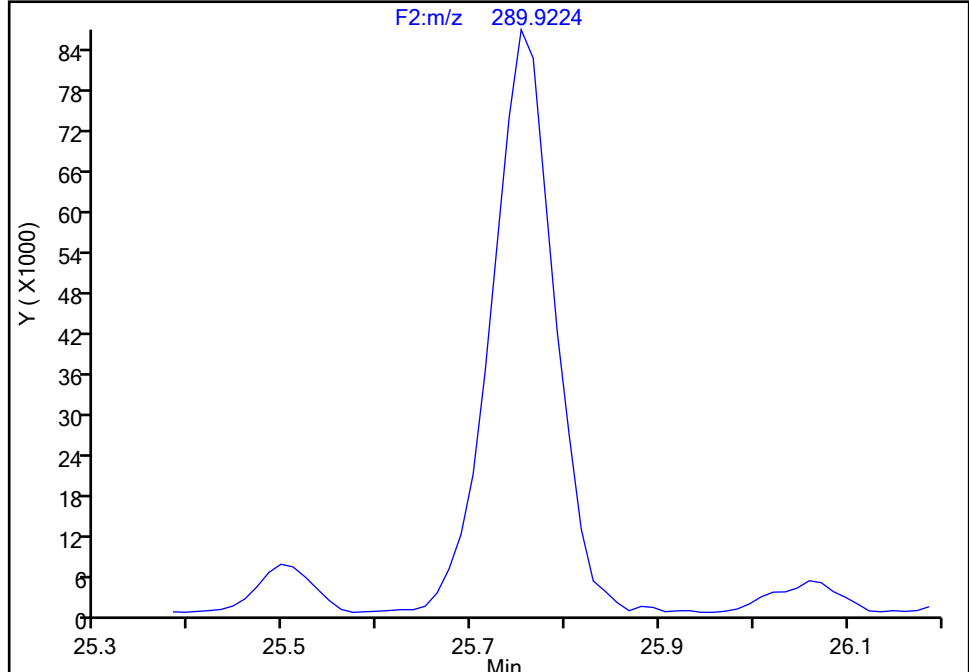
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

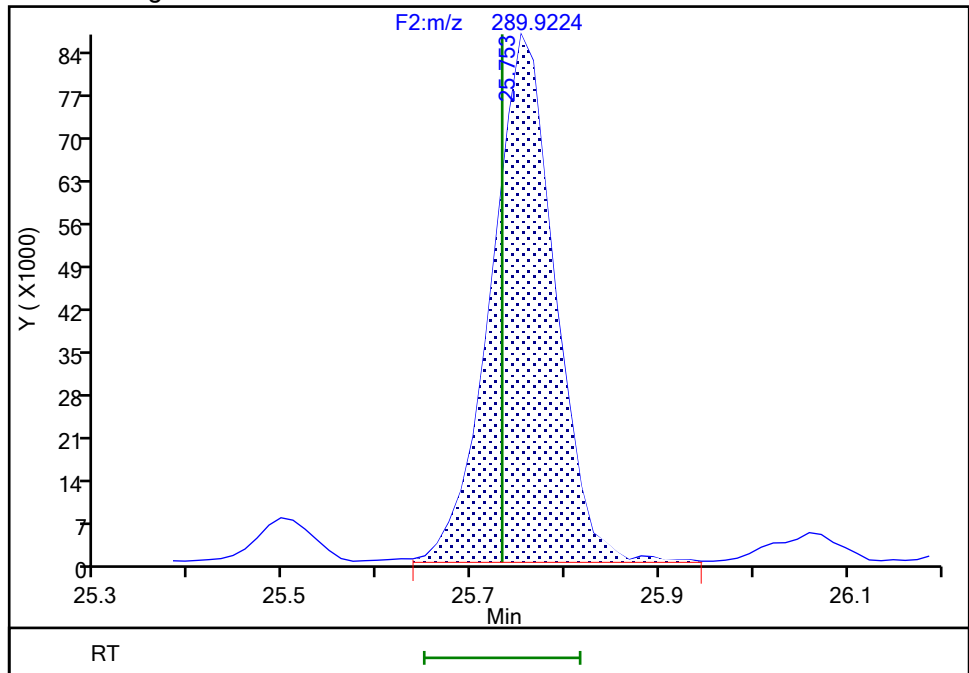
Not Detected
Expected RT: 25.73

Processing Integration Results



RT: 25.75
Area: 404687
Amount: 15.488276
Amount Units: pg/ul

Manual Integration Results



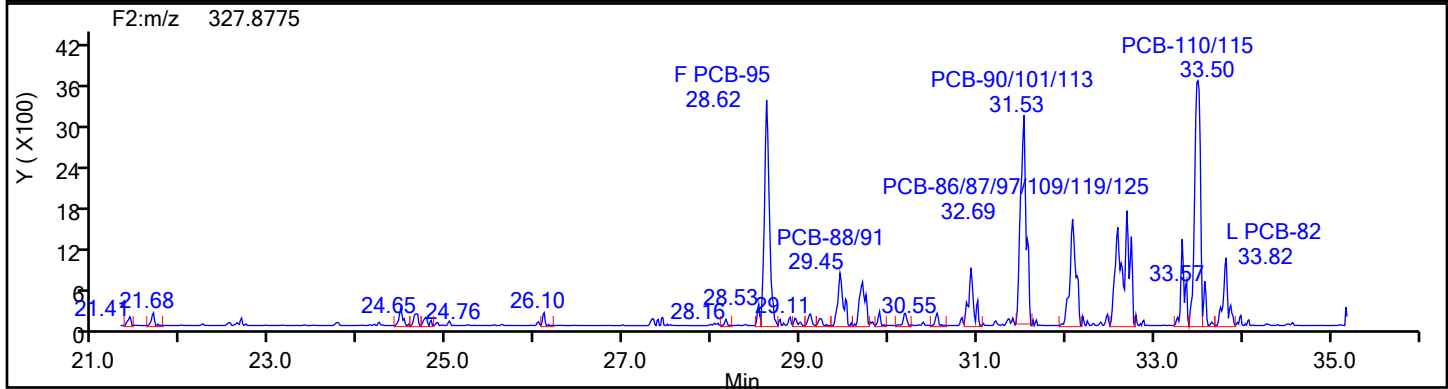
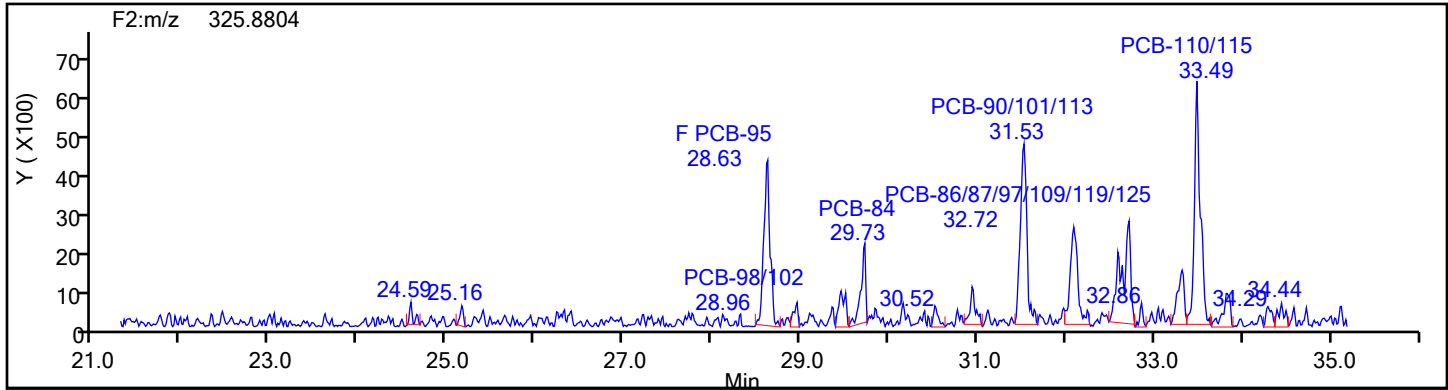
Reviewer: P0IK, 16-Jul-2024 17:12:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

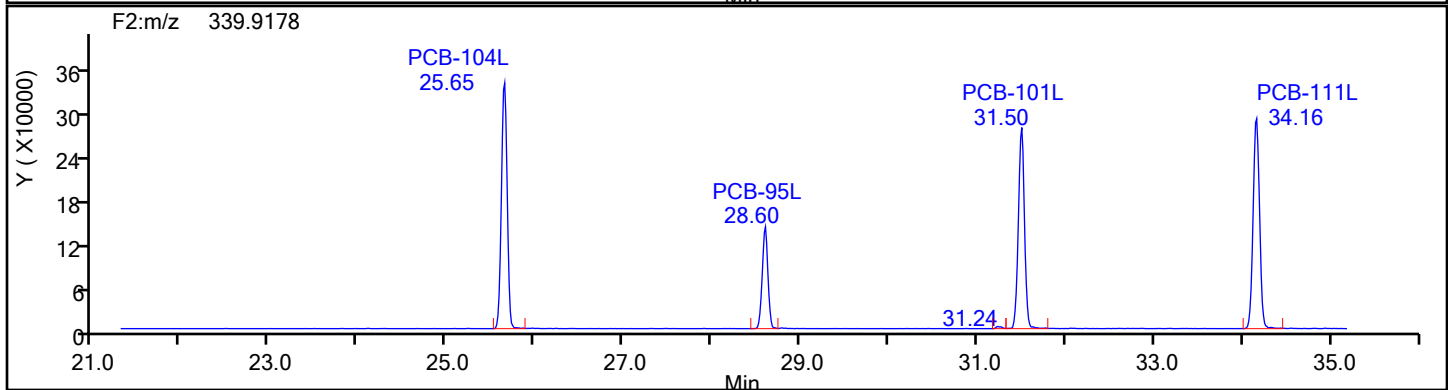
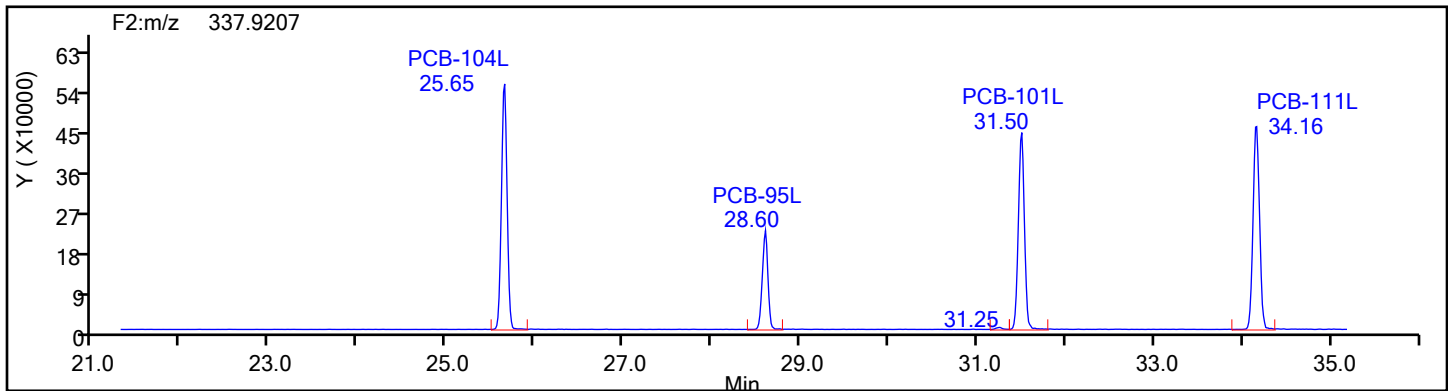
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

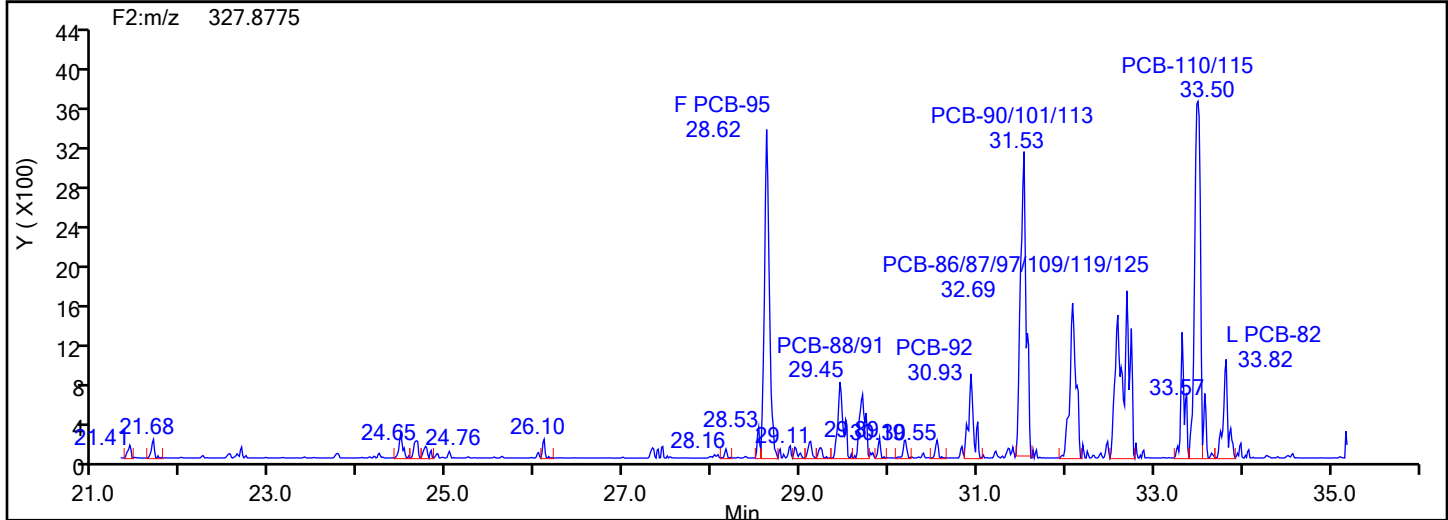
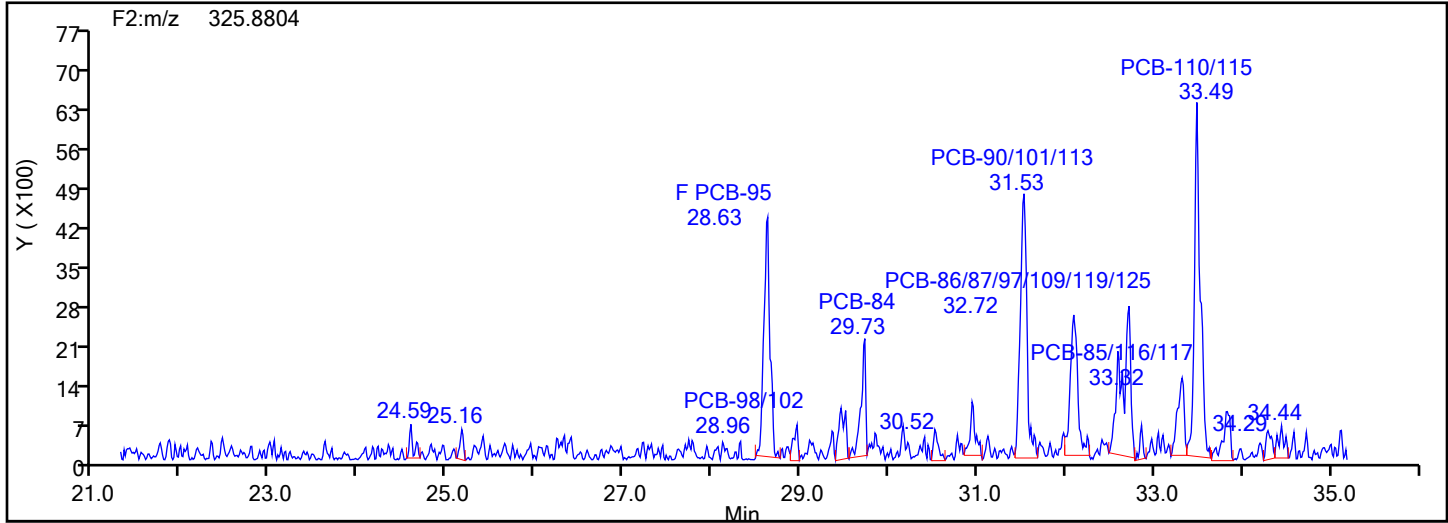


PePCB F2 Standards

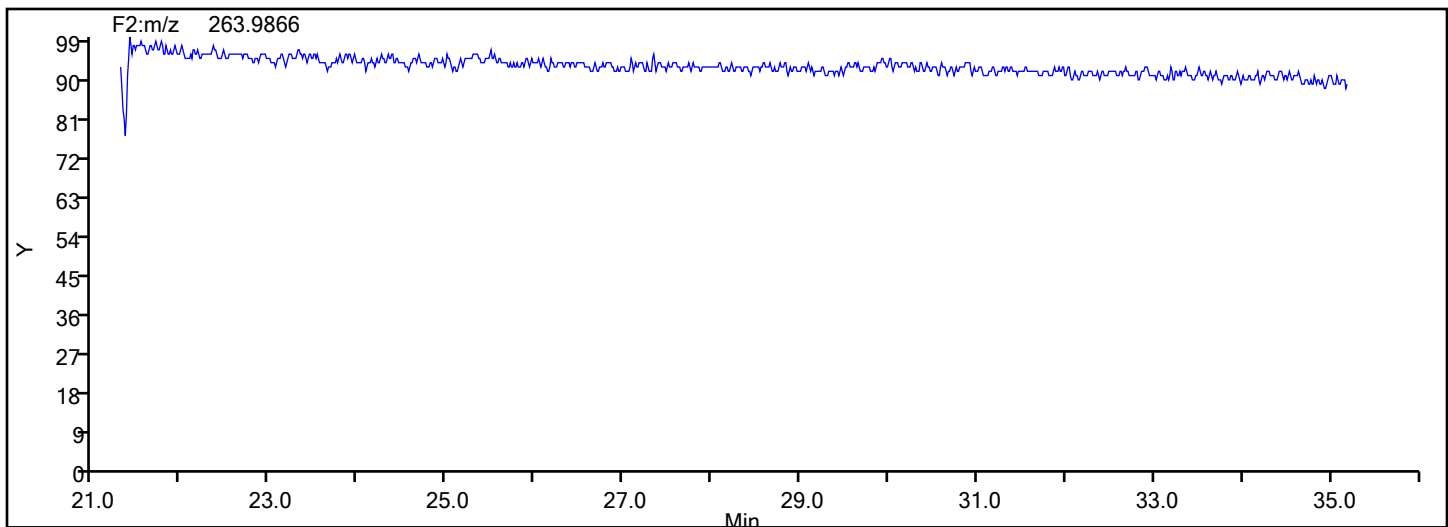


Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

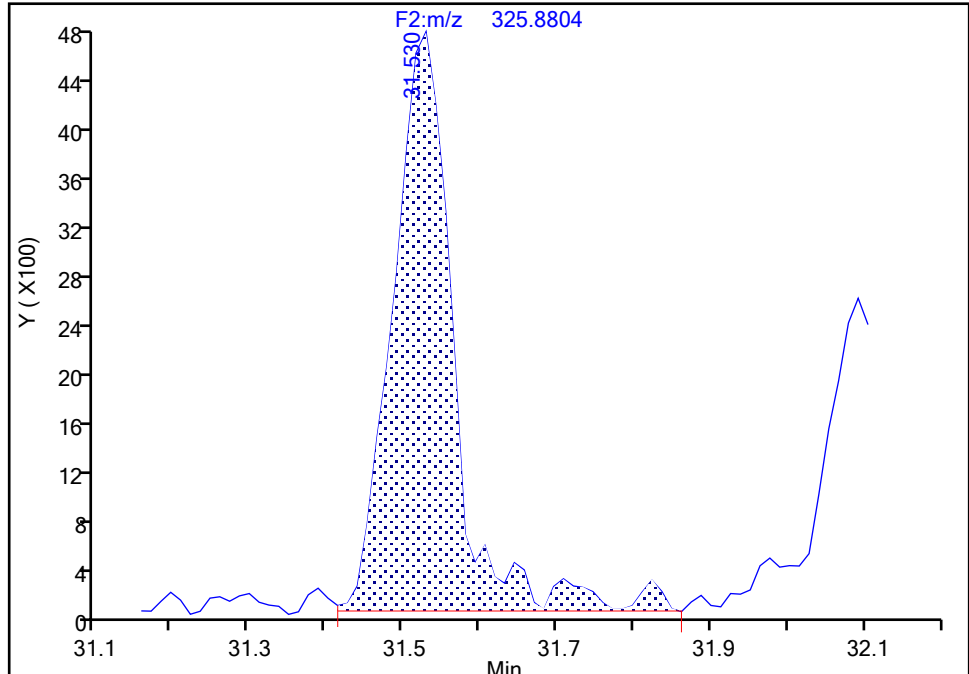
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

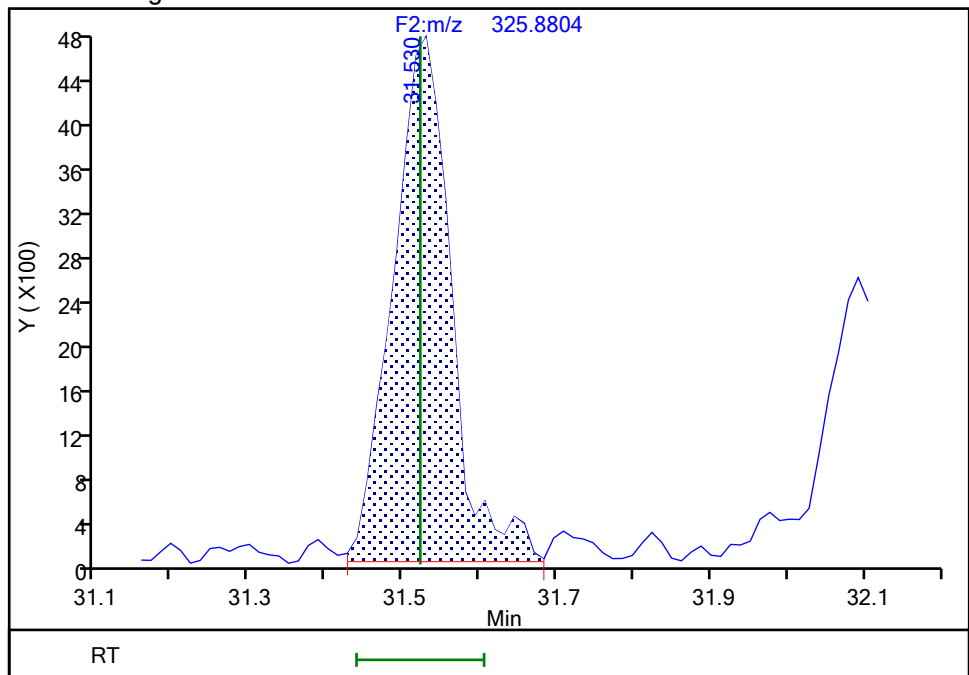
RT: 31.53
Area: 25924
Amount: 1.057929
Amount Units: pg/ul

Processing Integration Results



RT: 31.53
Area: 24733
Amount: 1.013373
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 16-Jul-2024 17:14:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

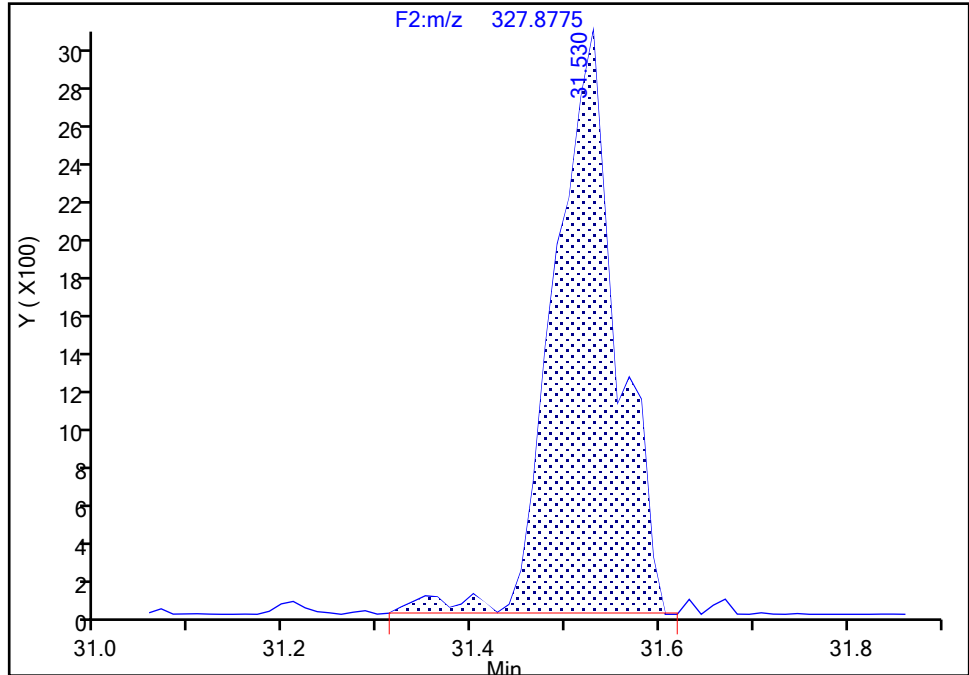
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Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 2

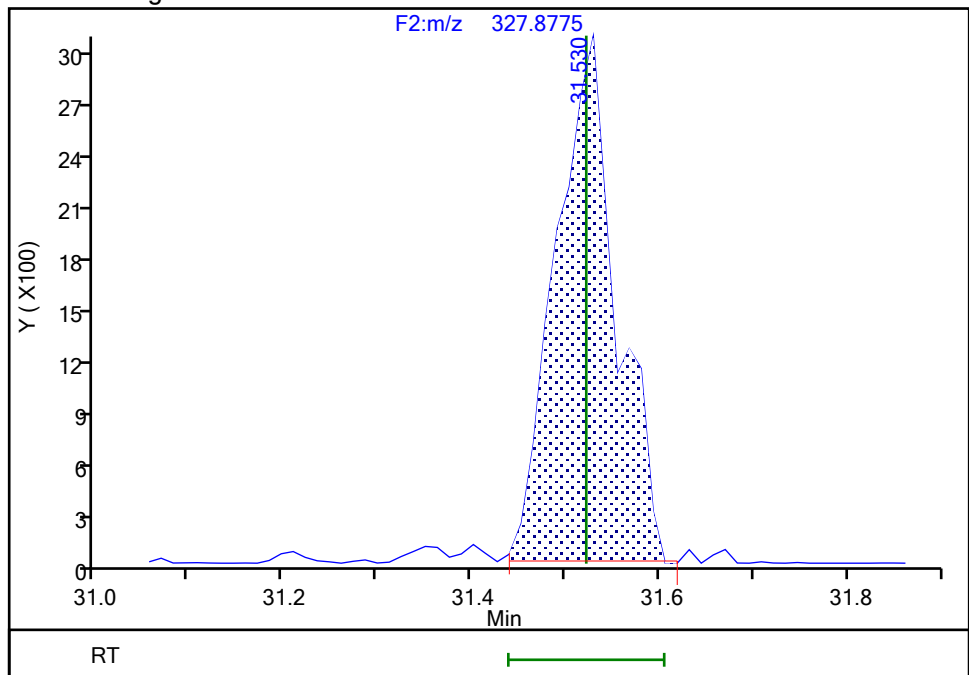
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Area: 14369
Amount: 1.057929
Amount Units: pg/ul

Processing Integration Results



RT: 31.53
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Amount: 1.013373
Amount Units: pg/ul

Manual Integration Results



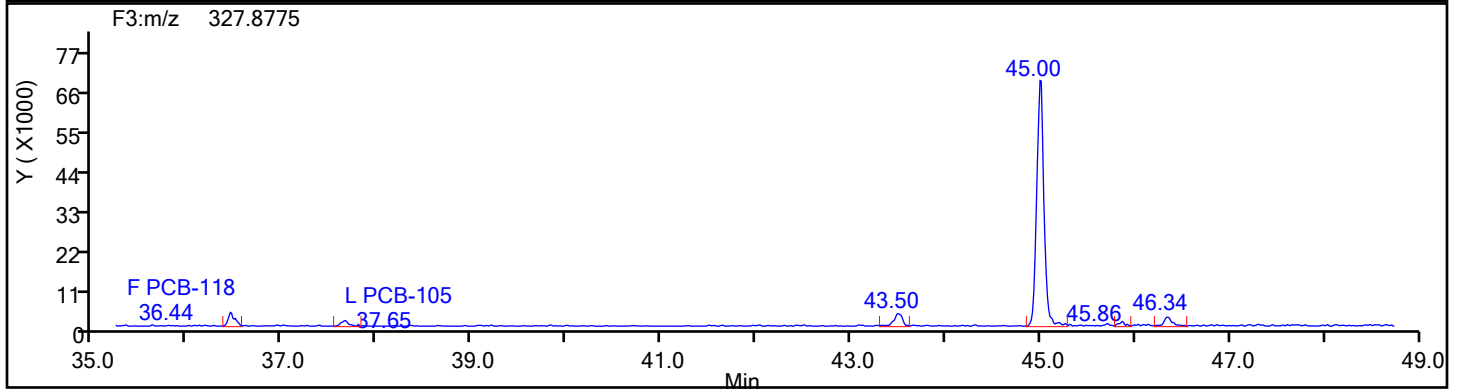
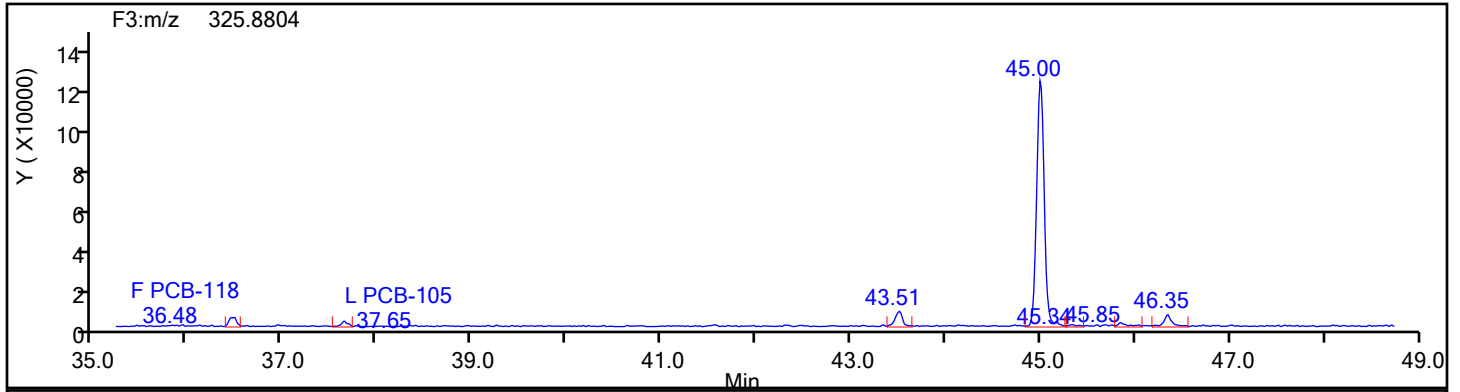
Reviewer: P0IK, 16-Jul-2024 17:15:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

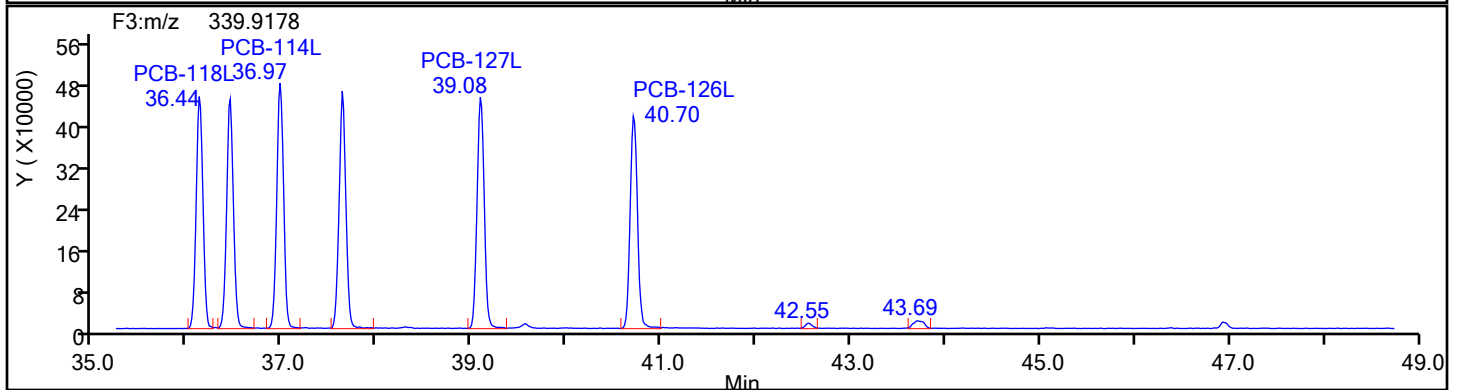
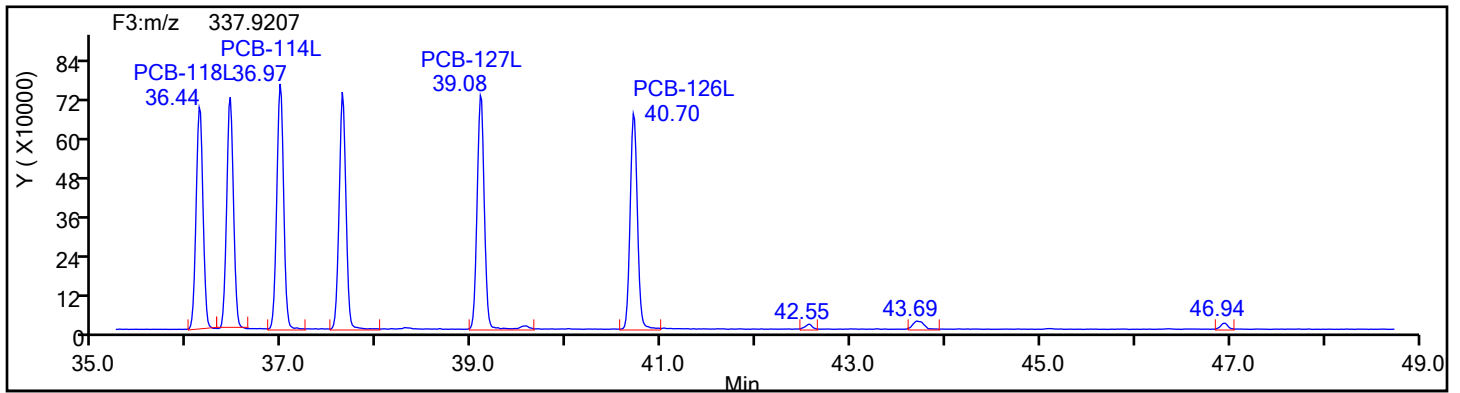
Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

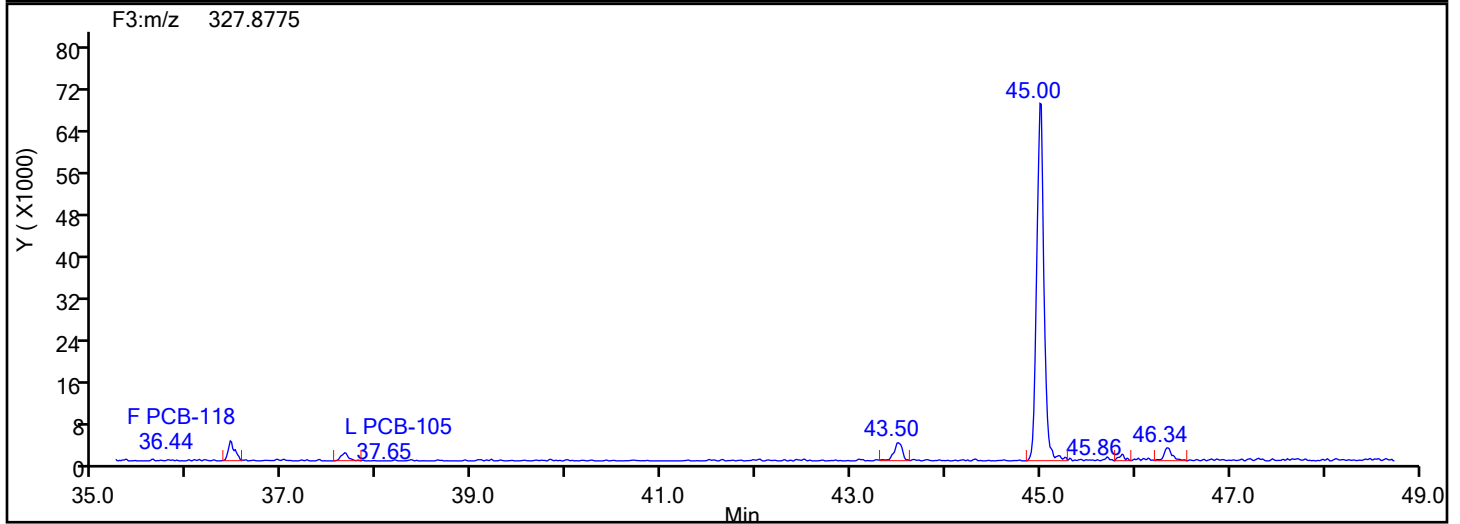
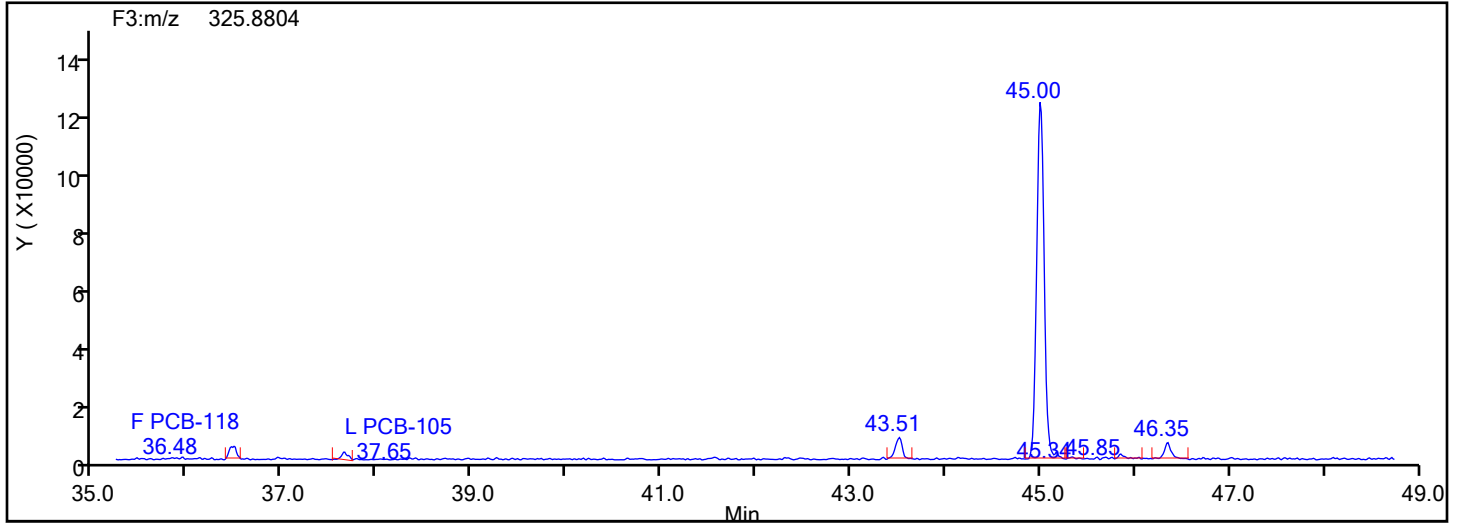


PePCB F3 Standards

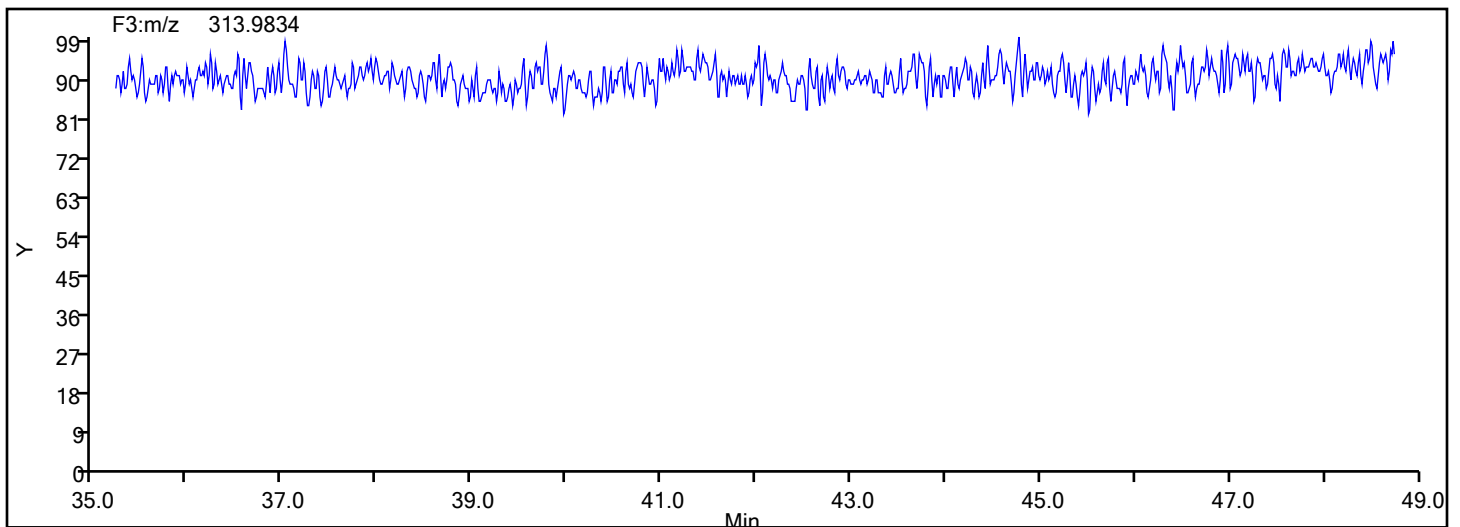


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

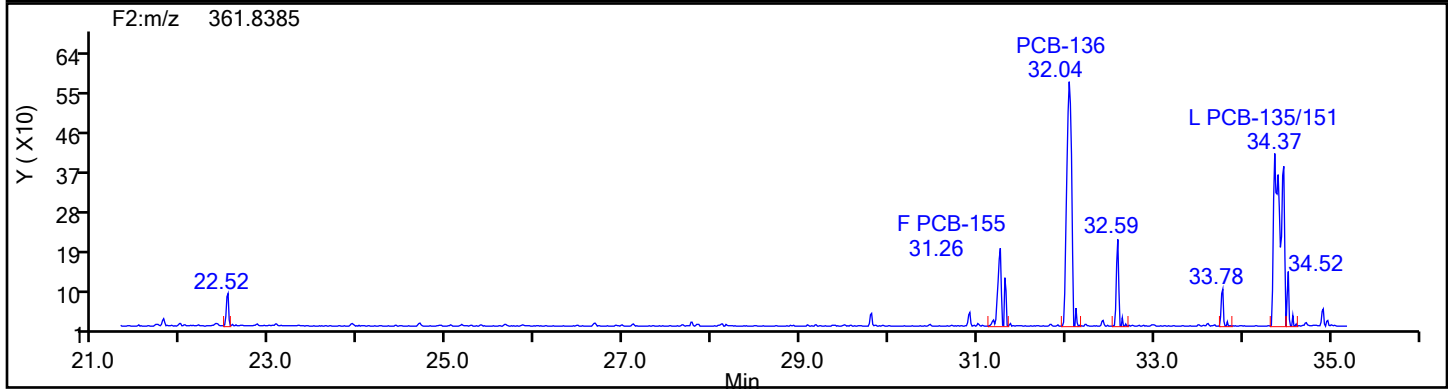
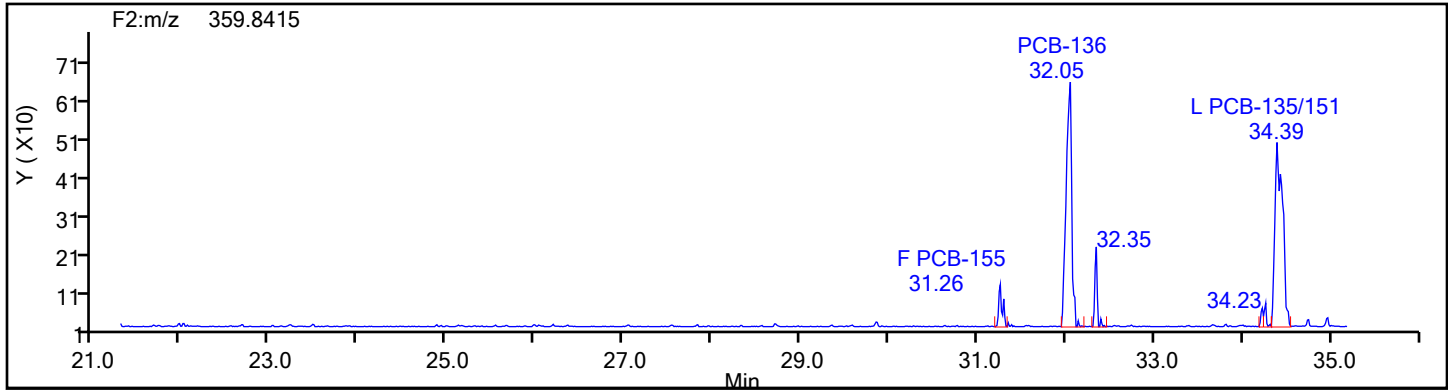


PePCB F3 Lock Mass

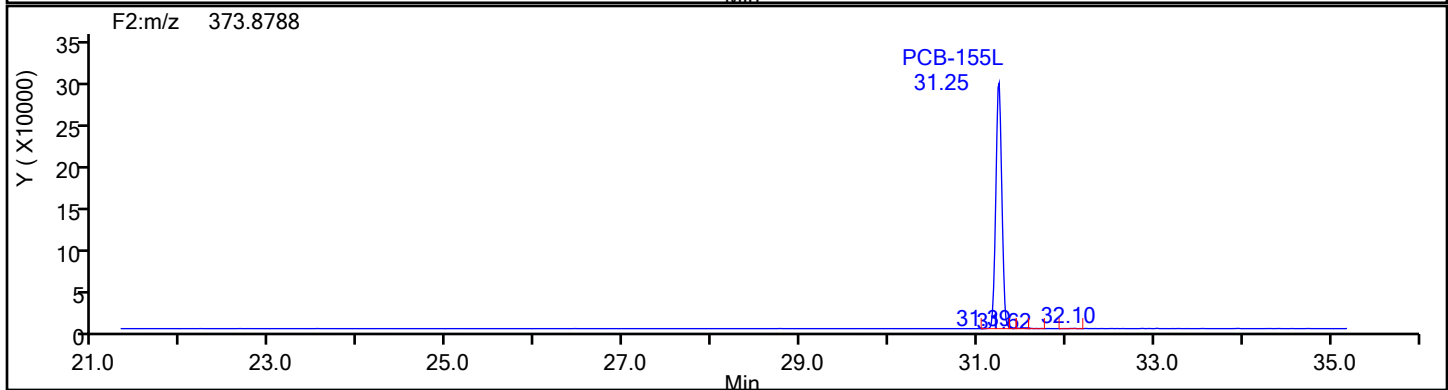
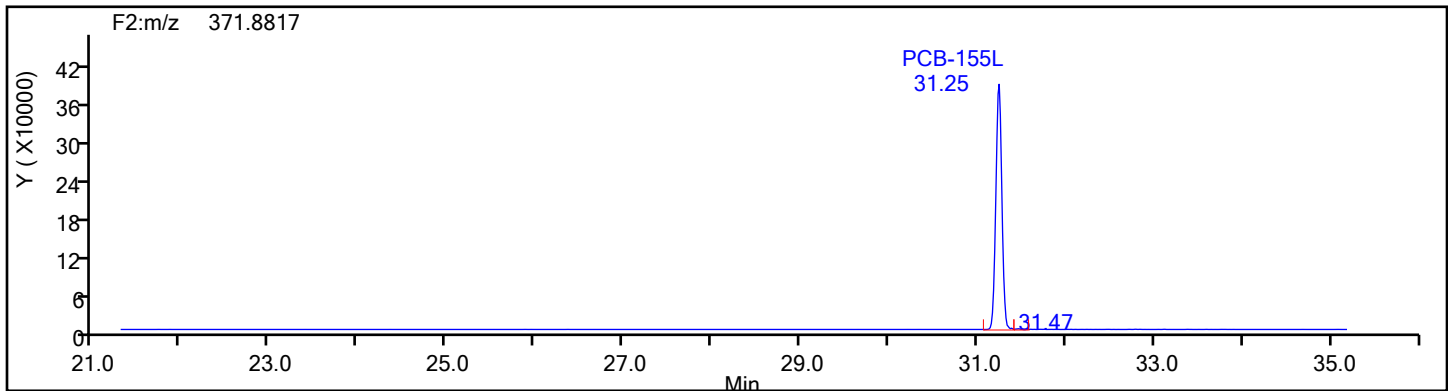


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

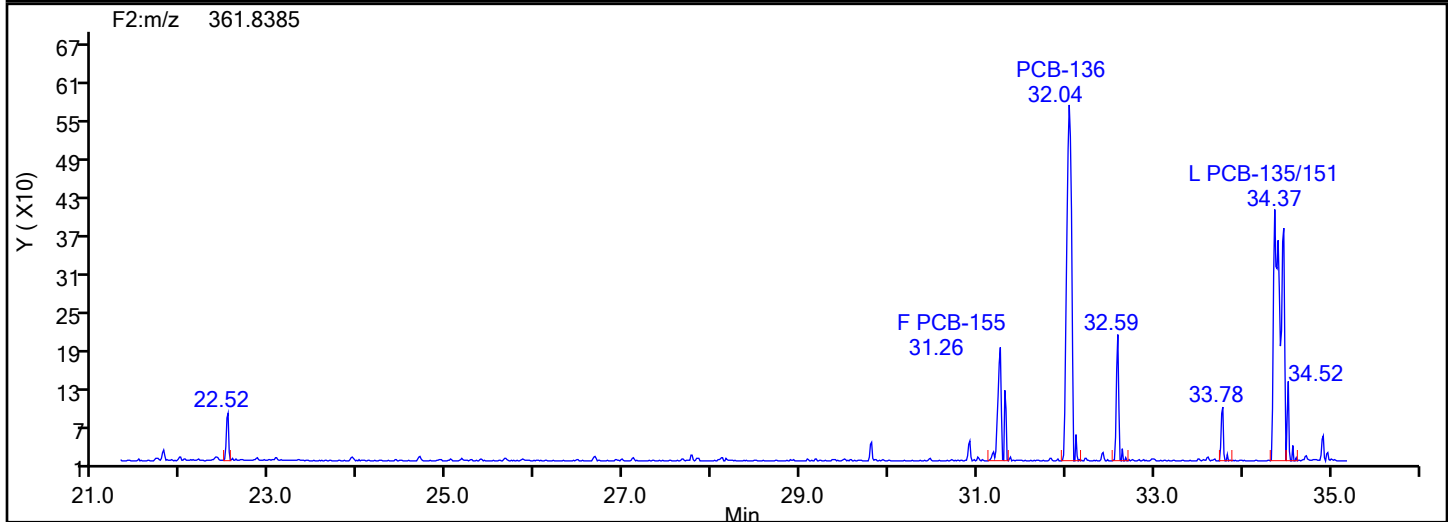
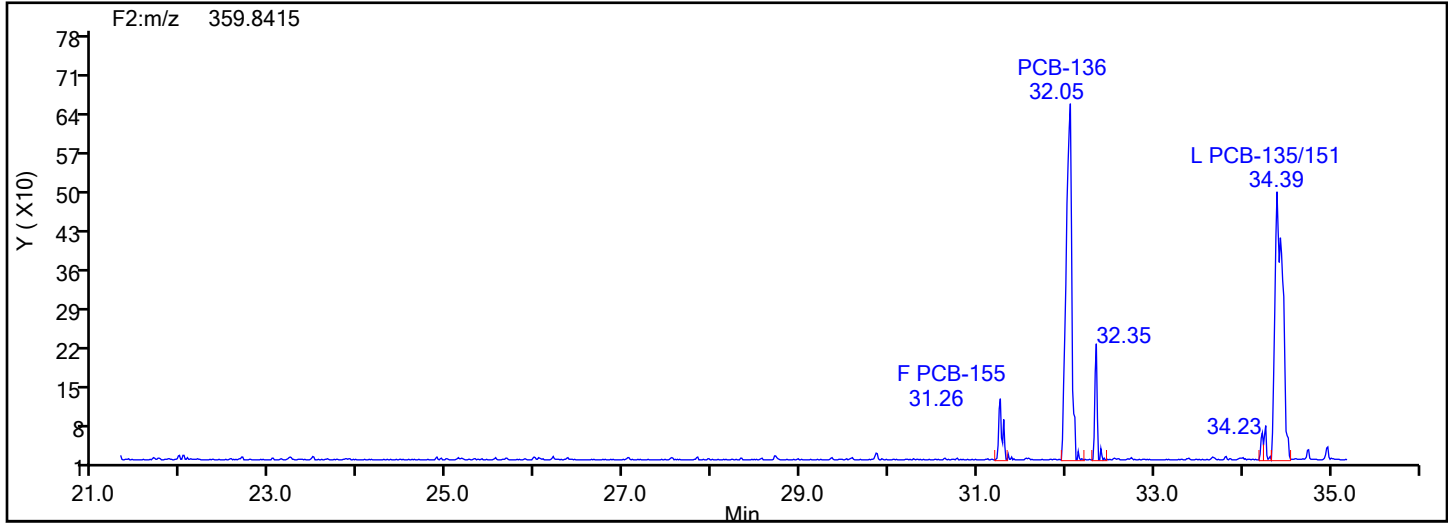


HxPCB F2 Standards

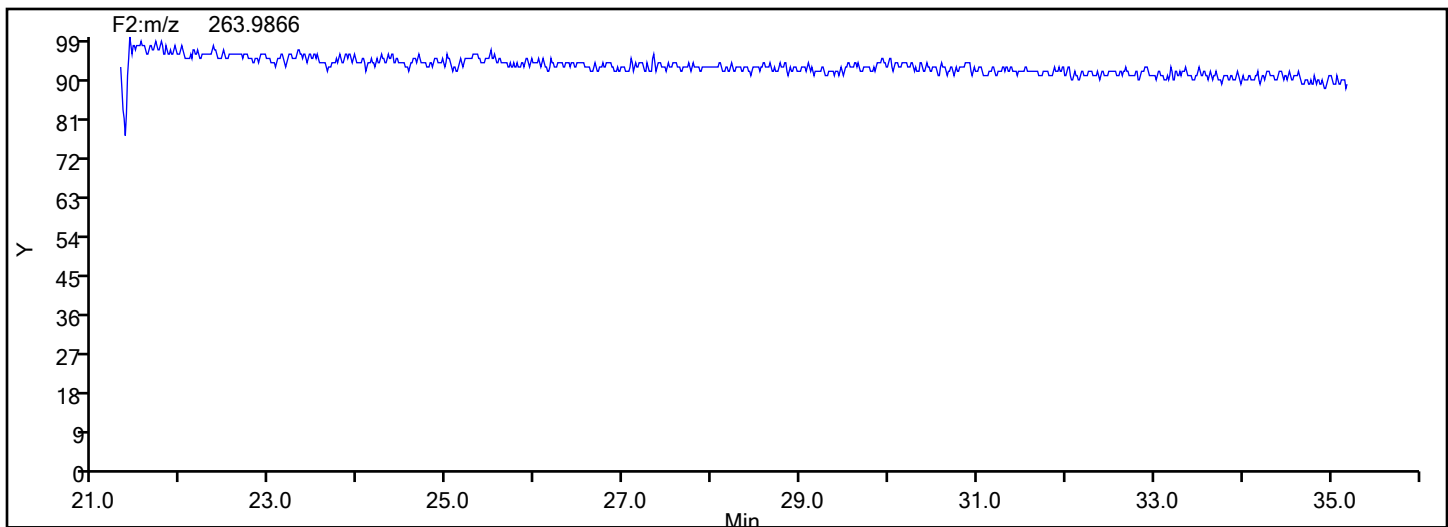


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

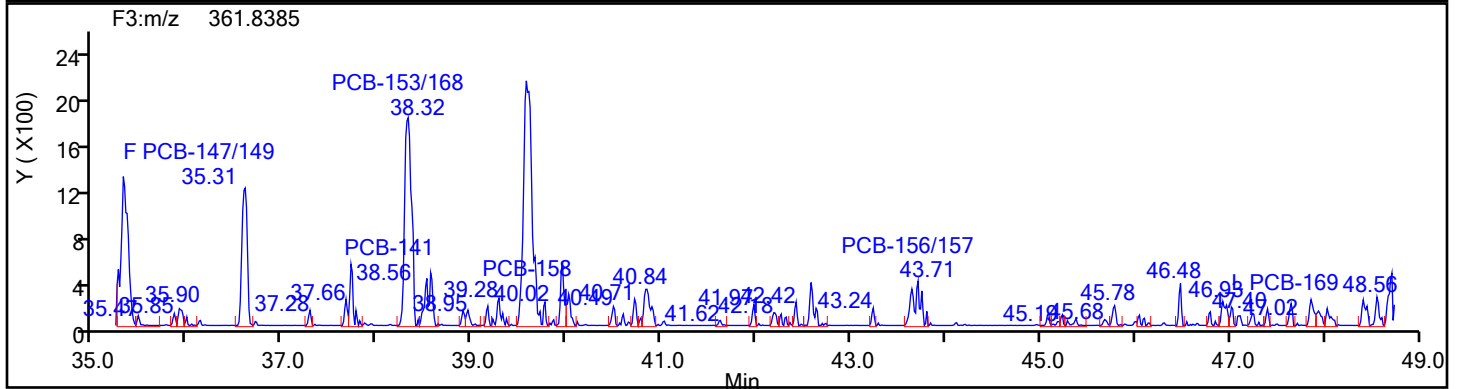
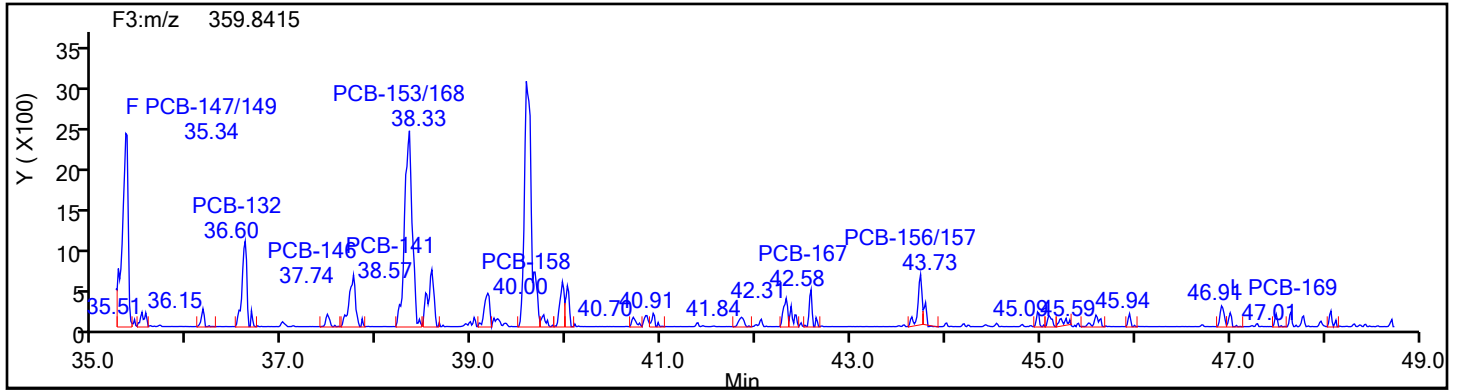


HxPCB F2 Lock Mass

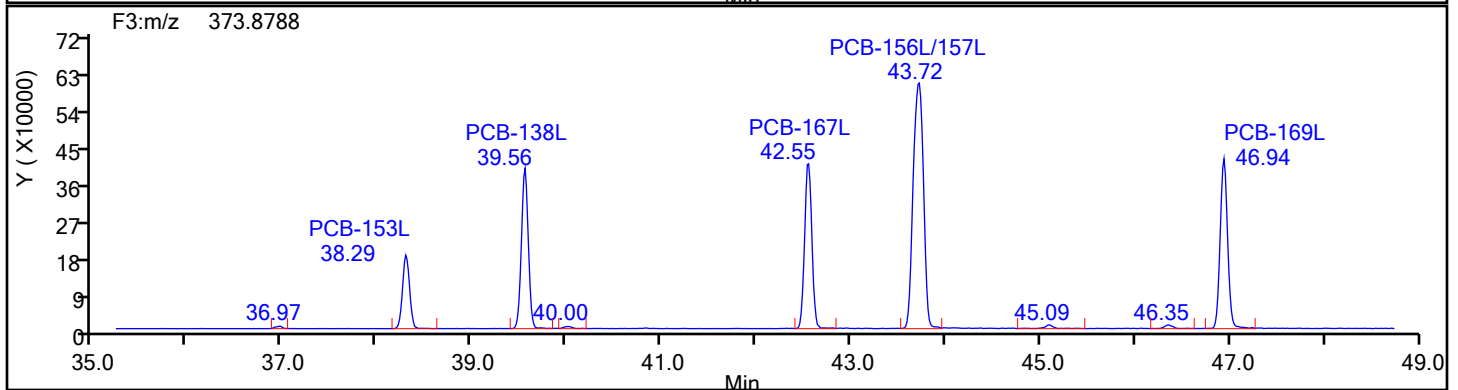
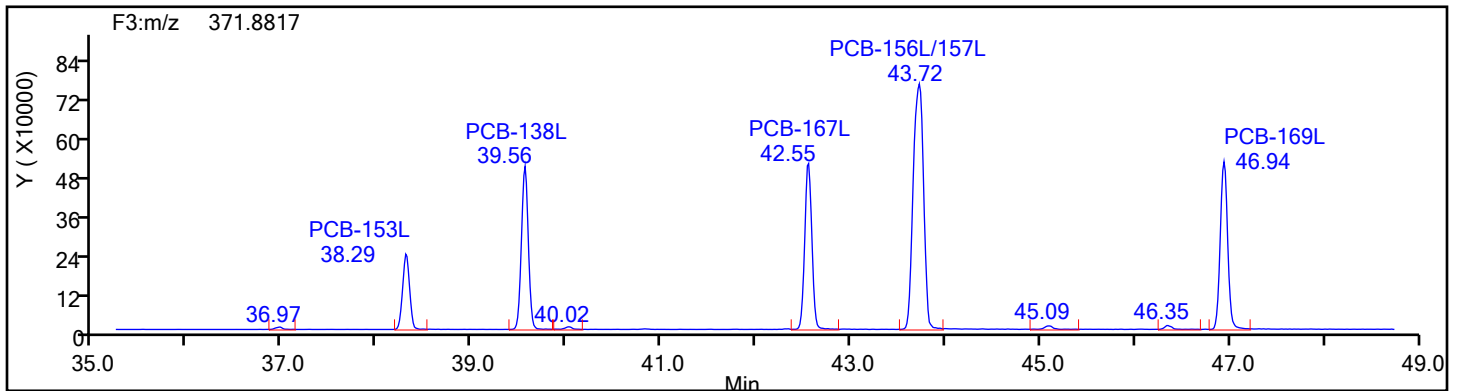


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

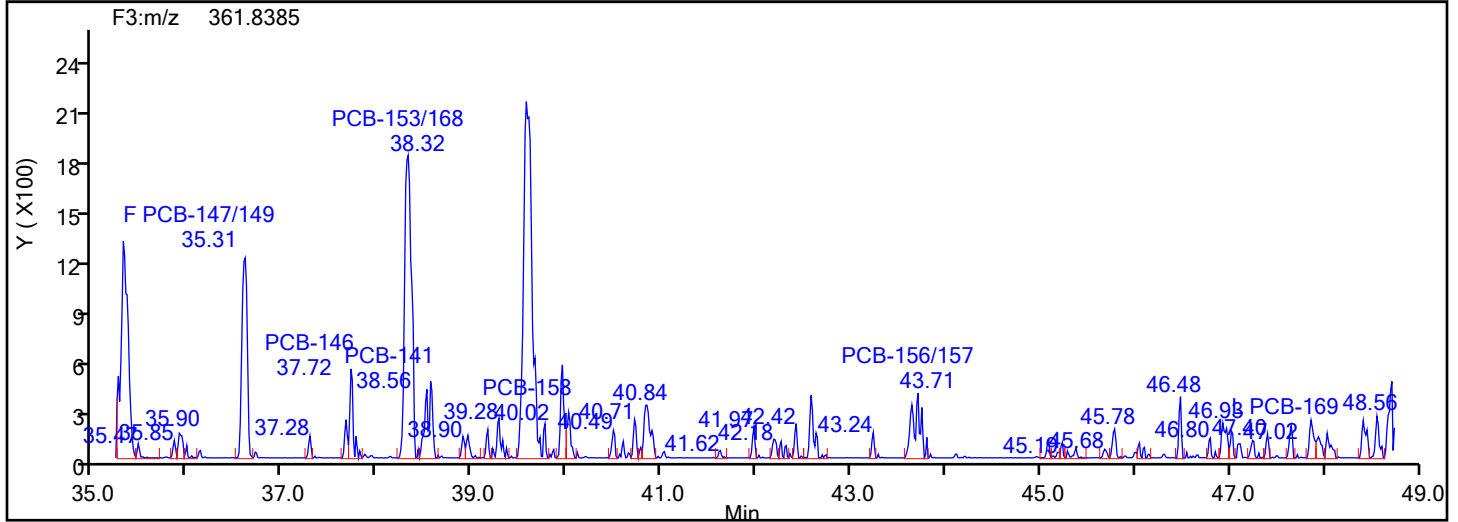
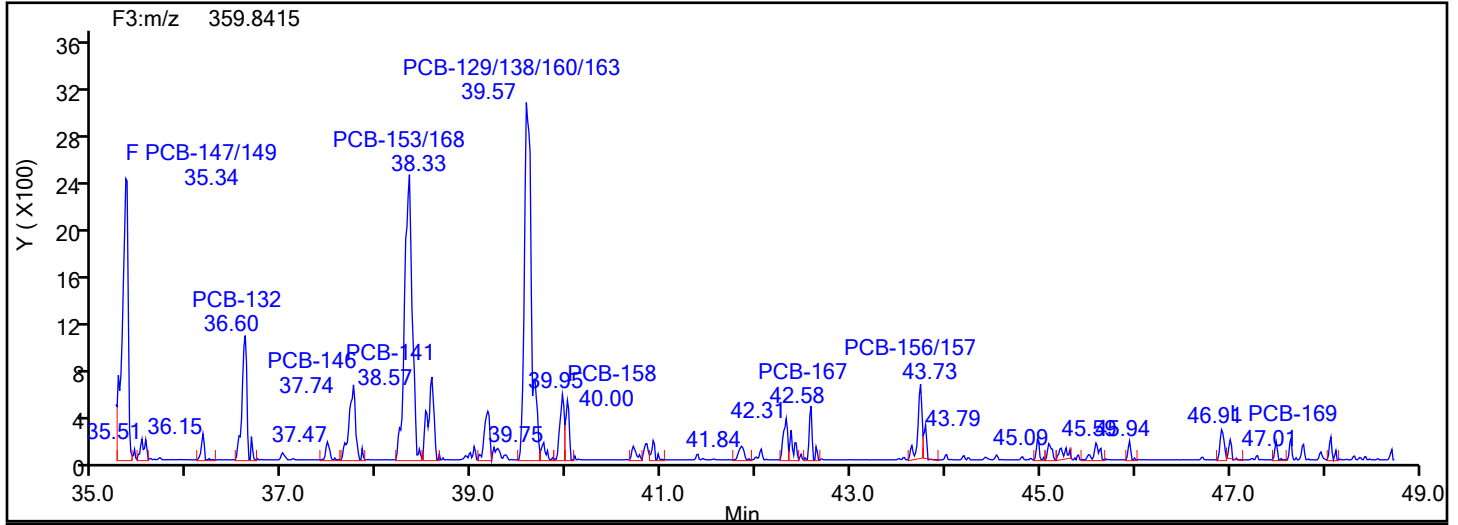


HxPCB F3 Standards

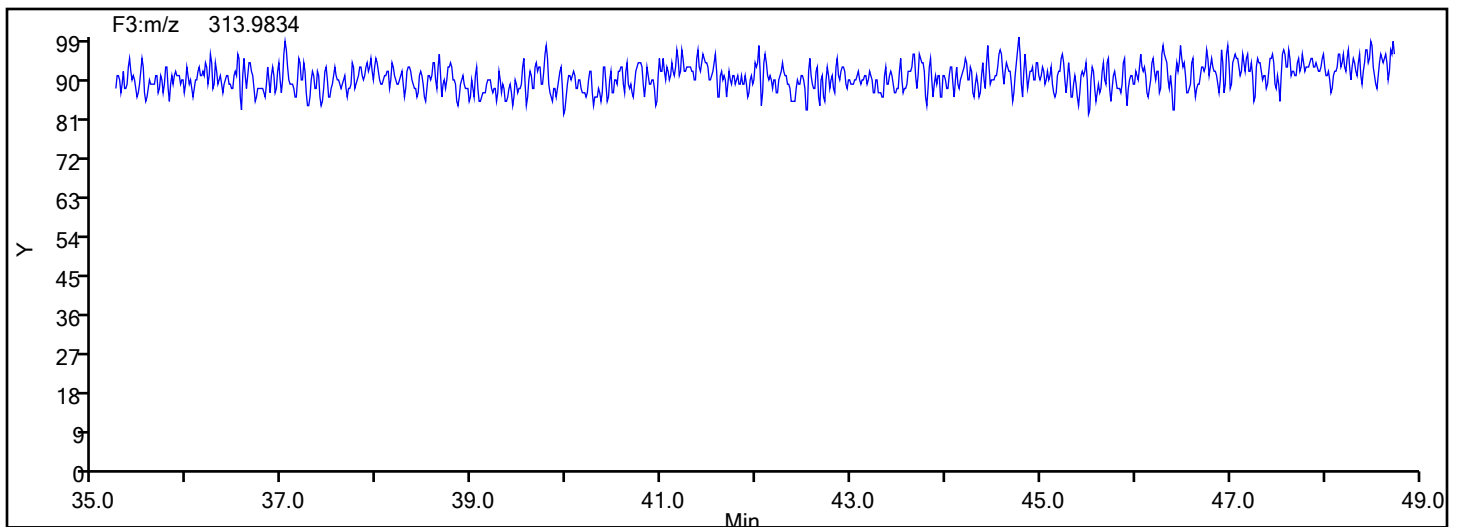


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

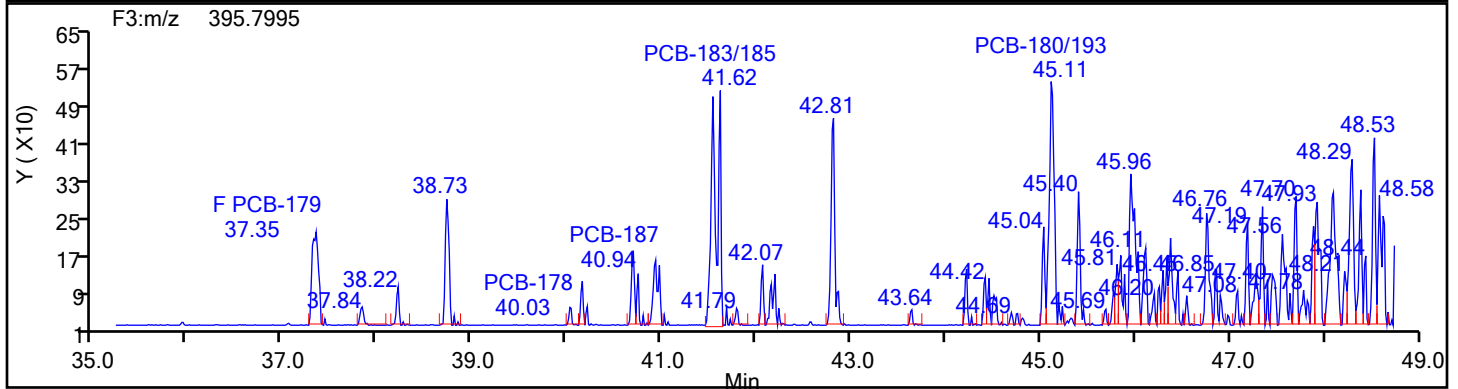
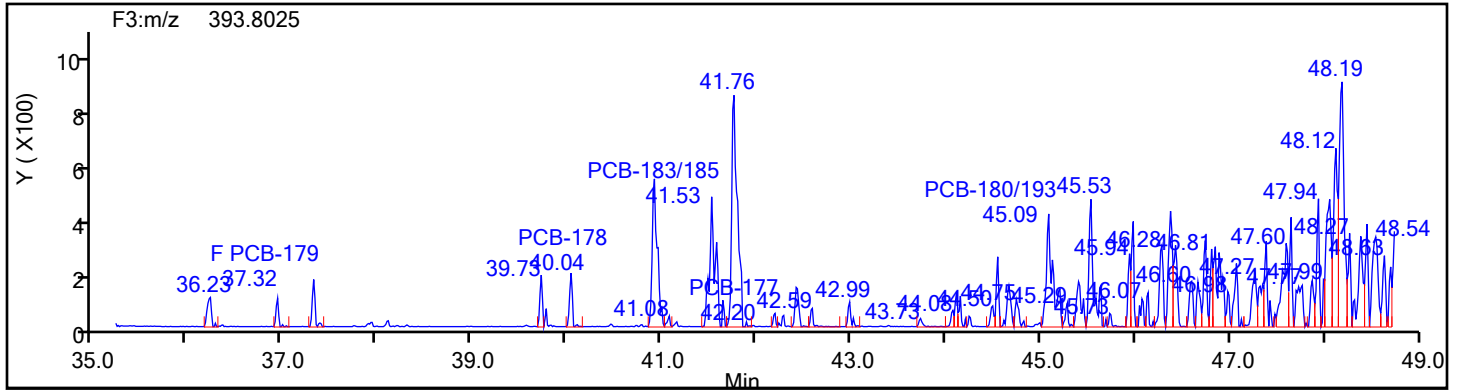


HxPCB F3 Lock Mass

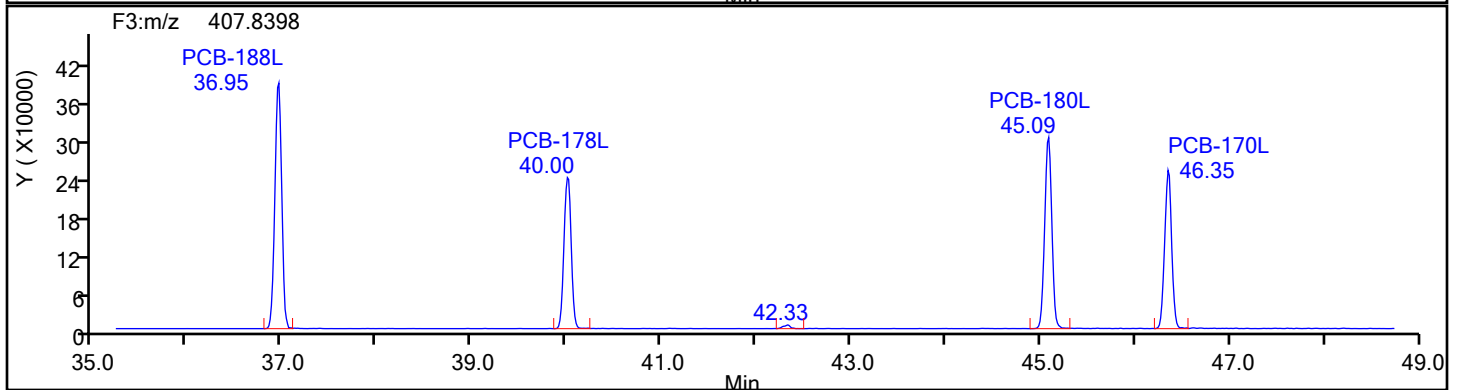
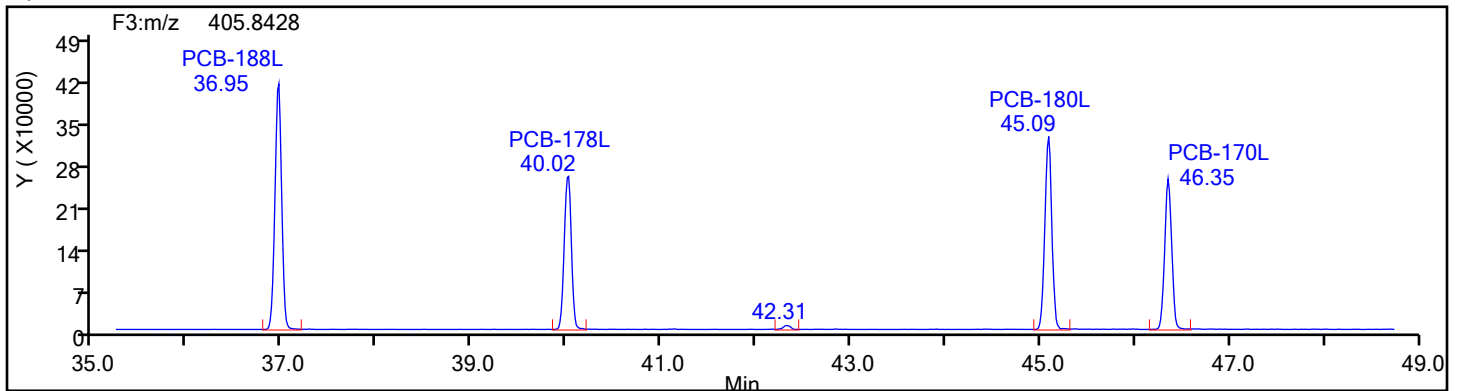


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

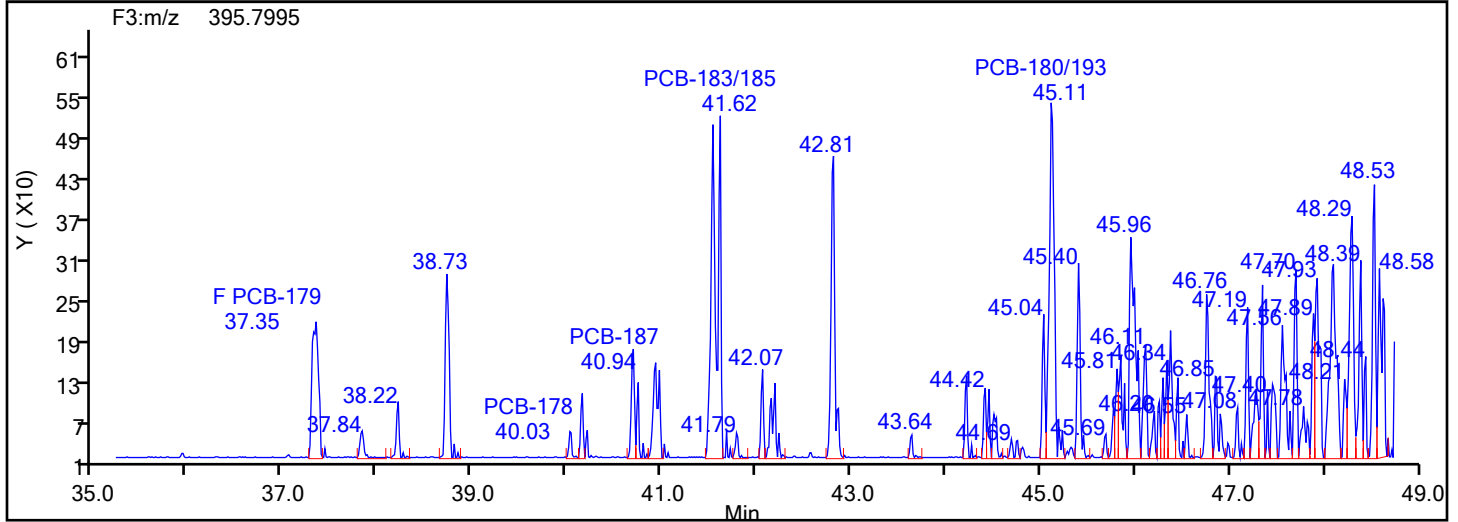
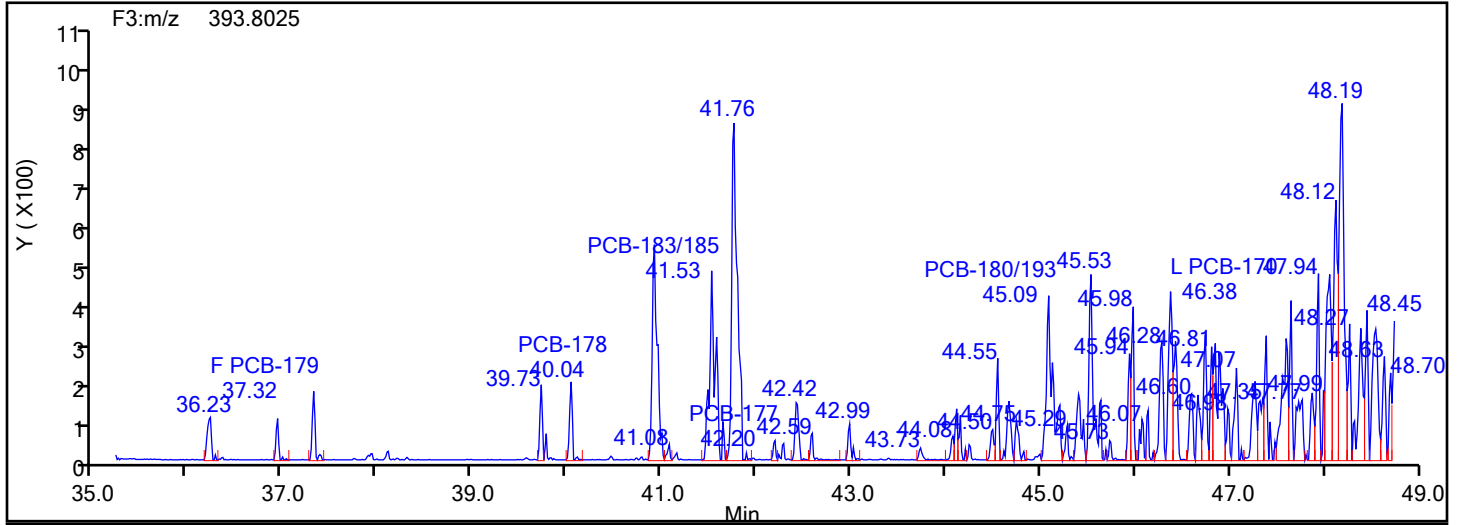


HpPCB F3 Standards

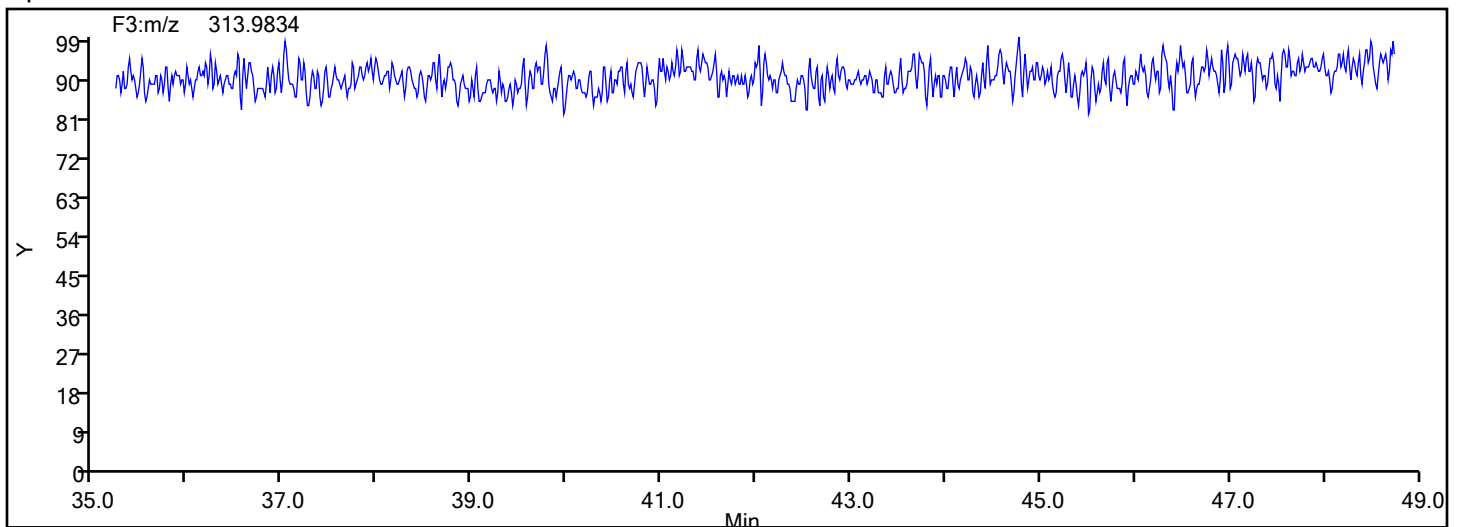


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

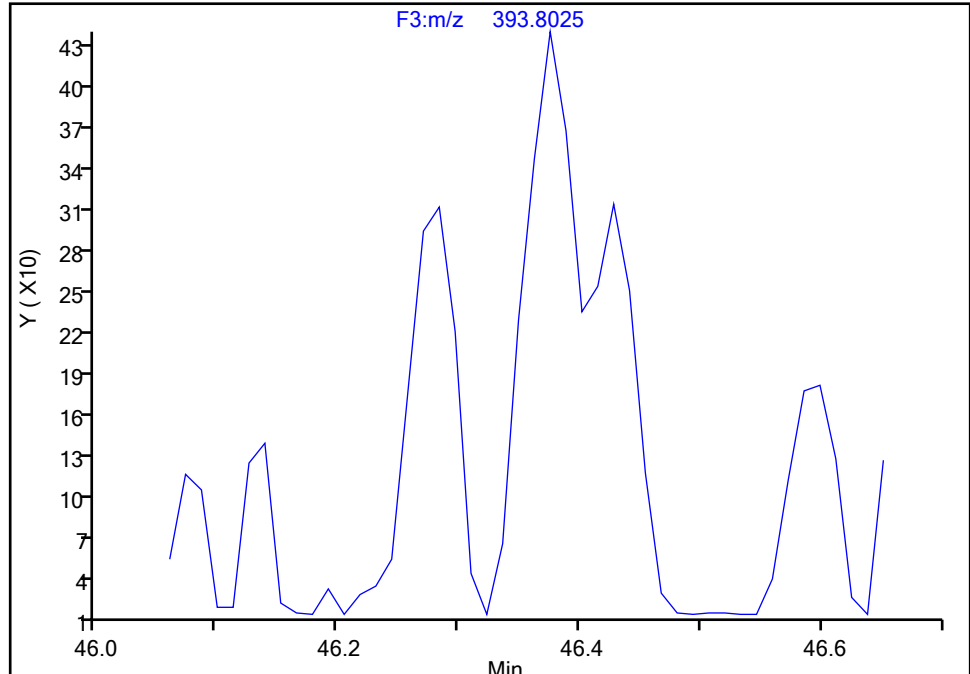
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Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

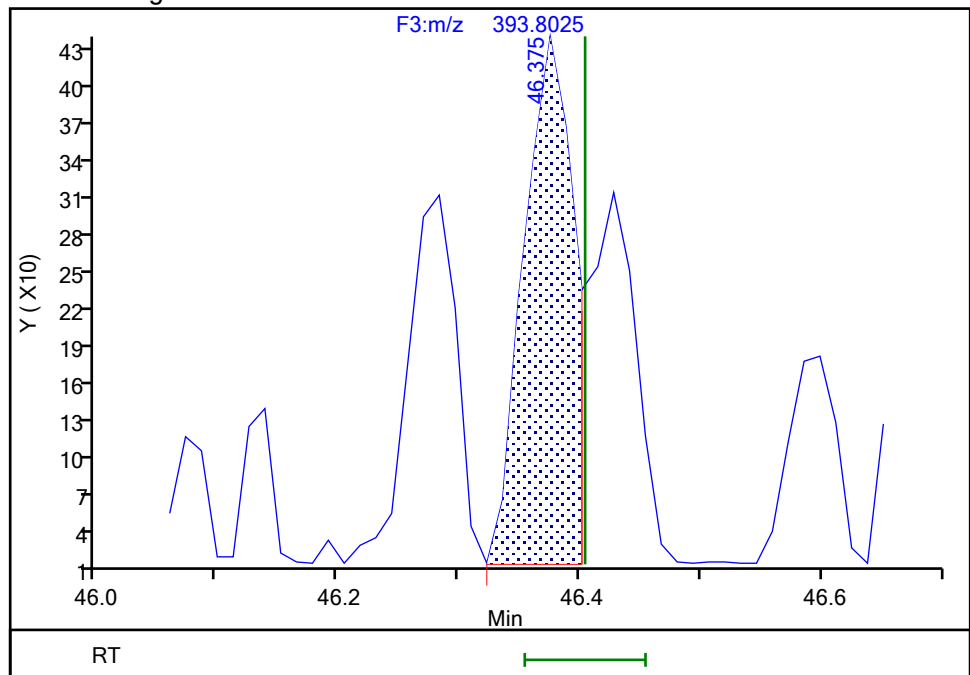
Not Detected
Expected RT: 46.40

Processing Integration Results



RT: 46.38
Area: 1134
Amount: 0.051465
Amount Units: pg/ul

Manual Integration Results



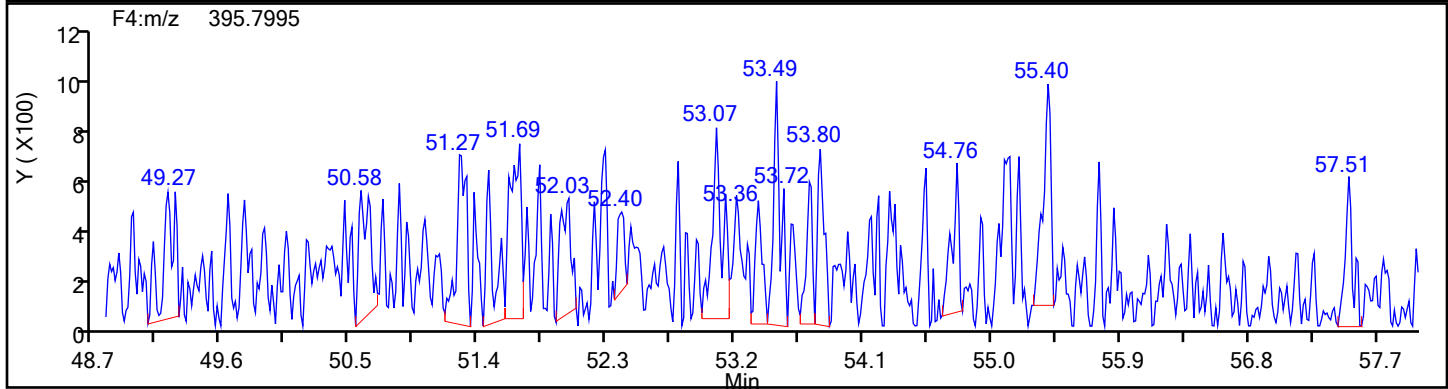
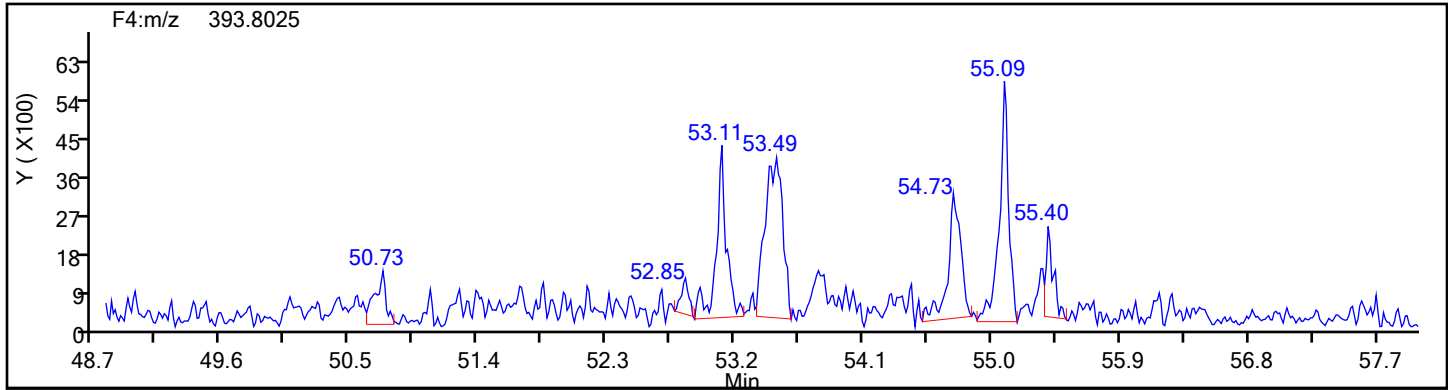
Reviewer: P0IK, 16-Jul-2024 17:17:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

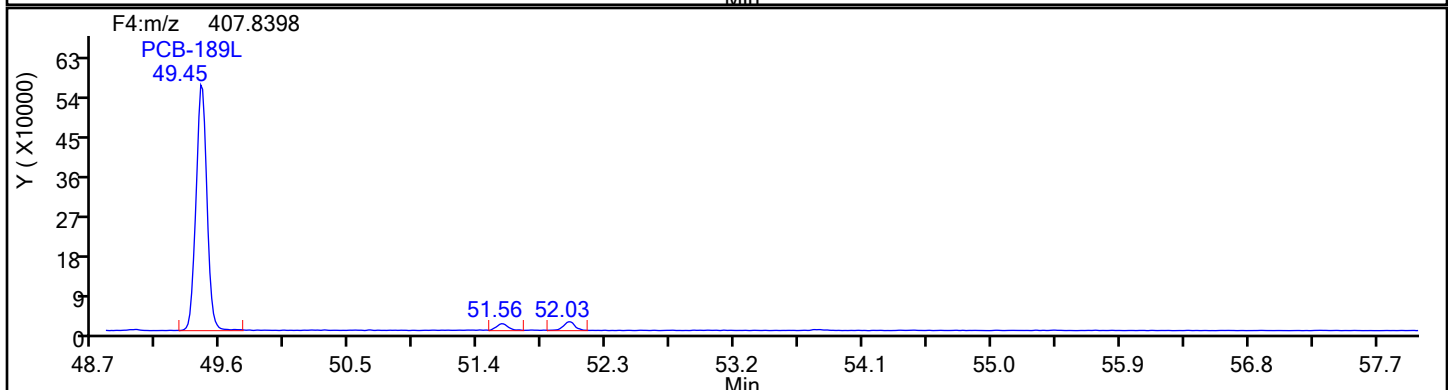
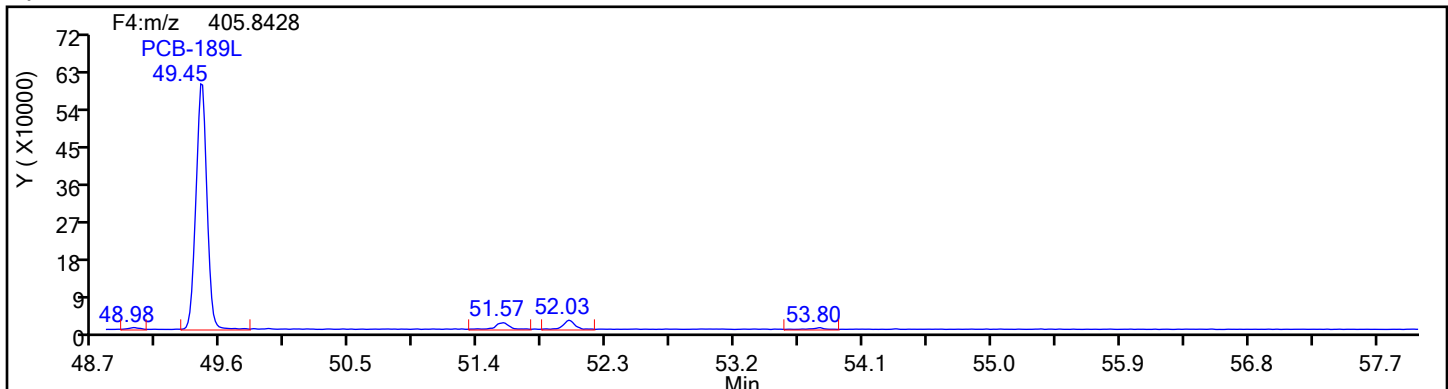
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

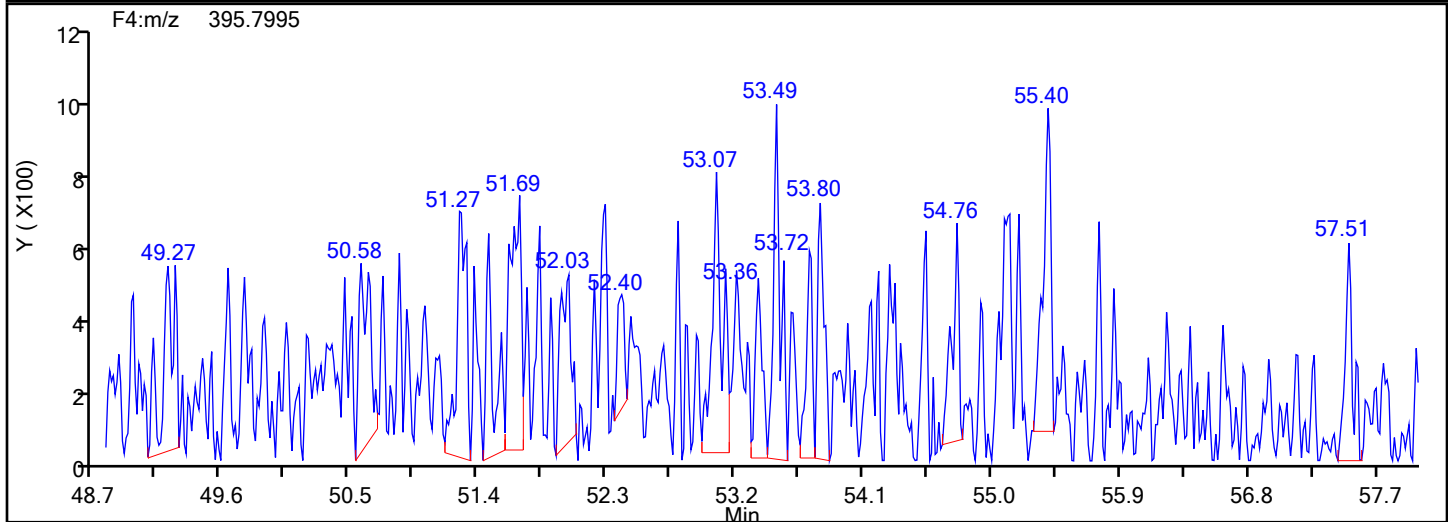
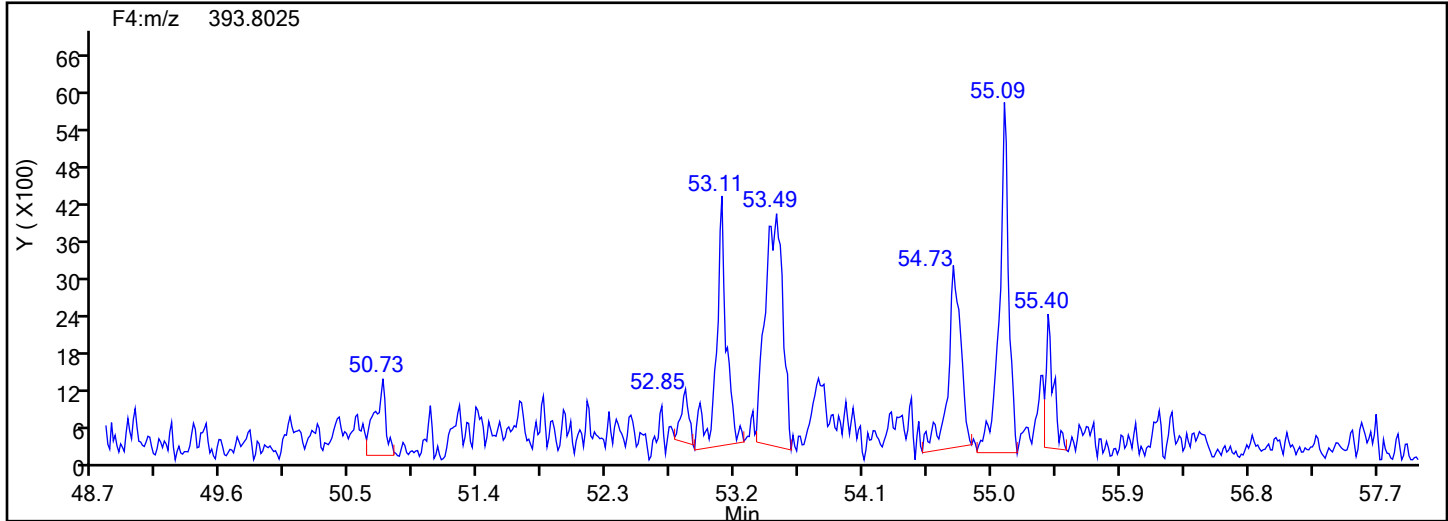


HpPCB F4 Standards

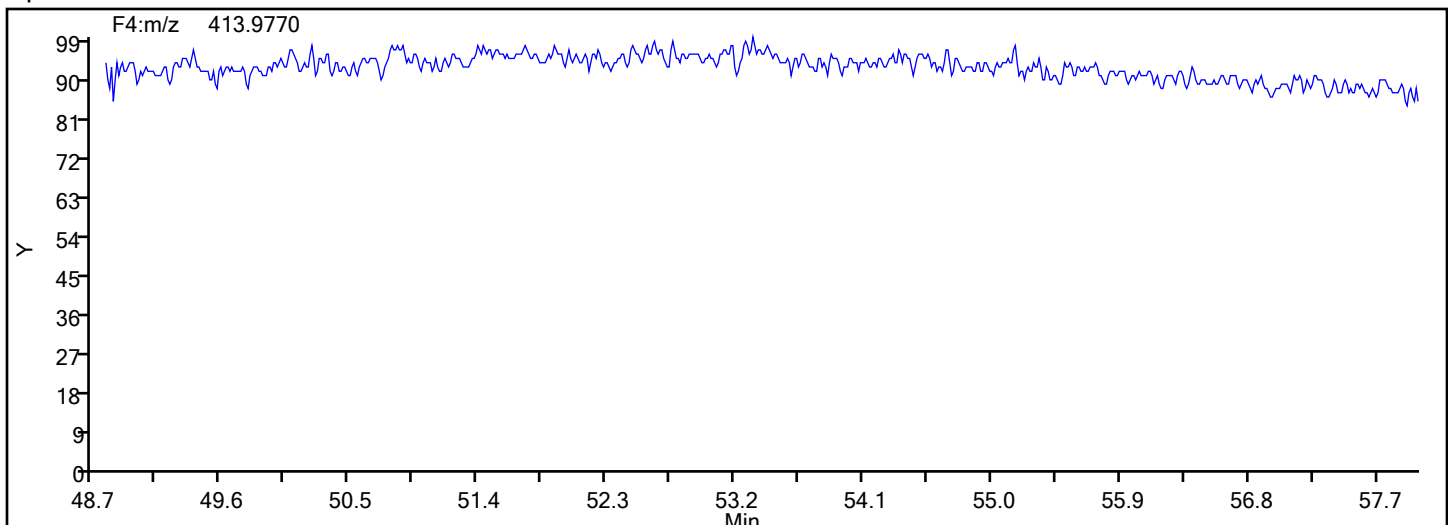


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

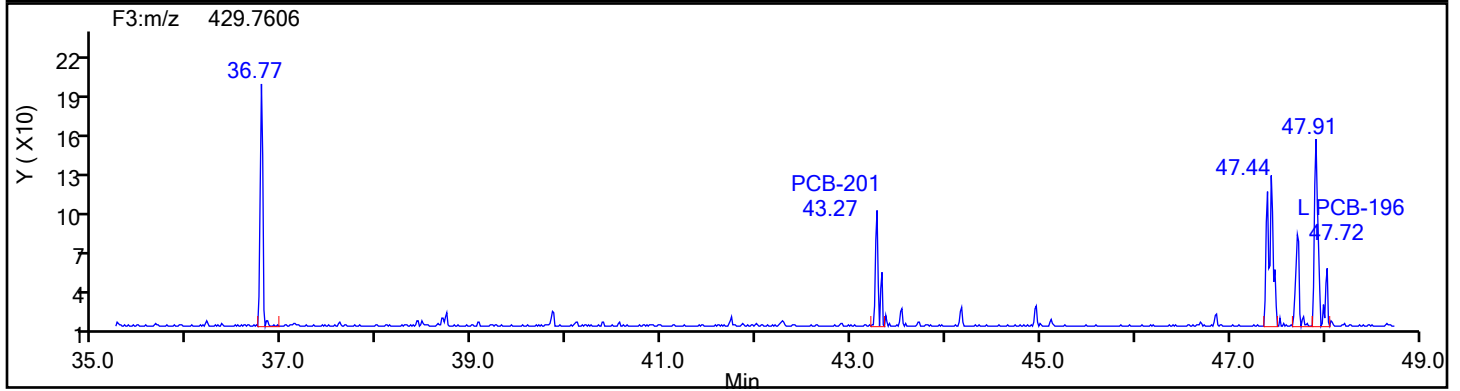
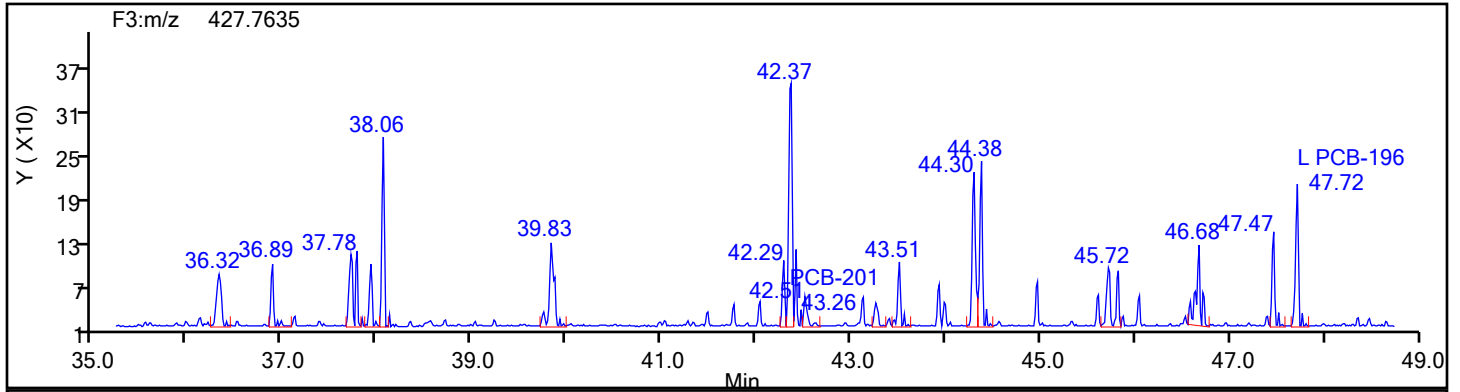


HpPCB F4 Lock Mass

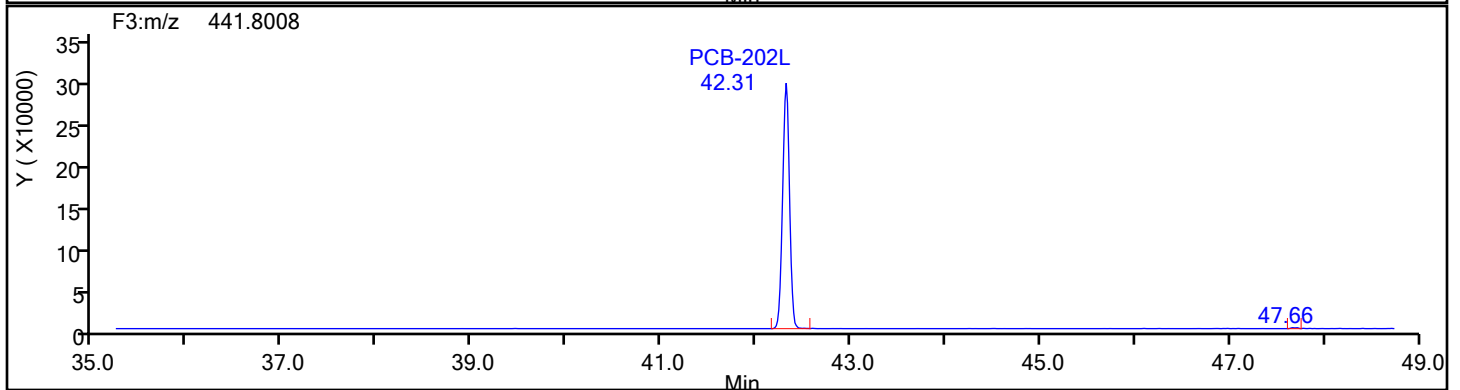
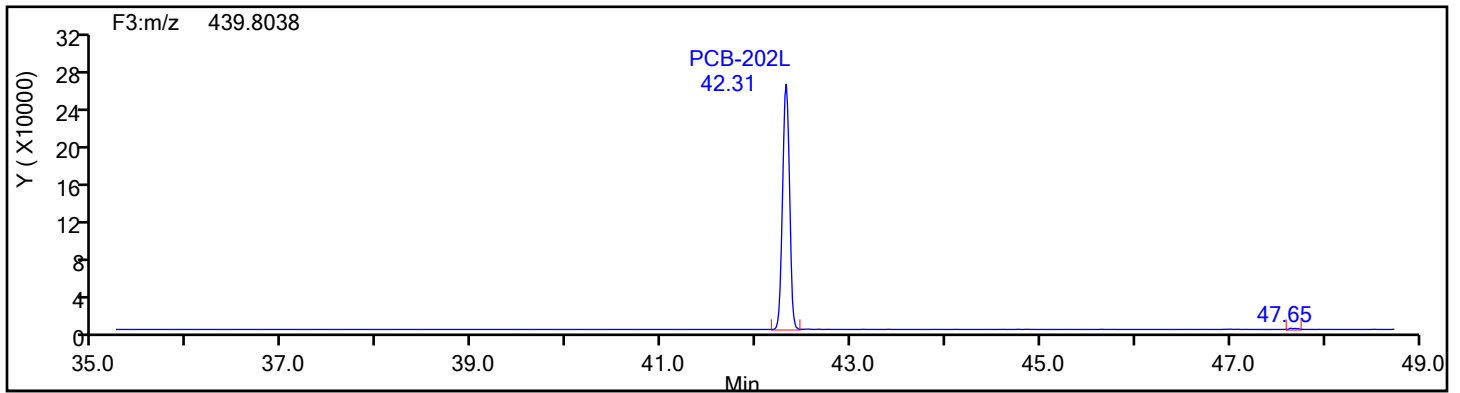


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

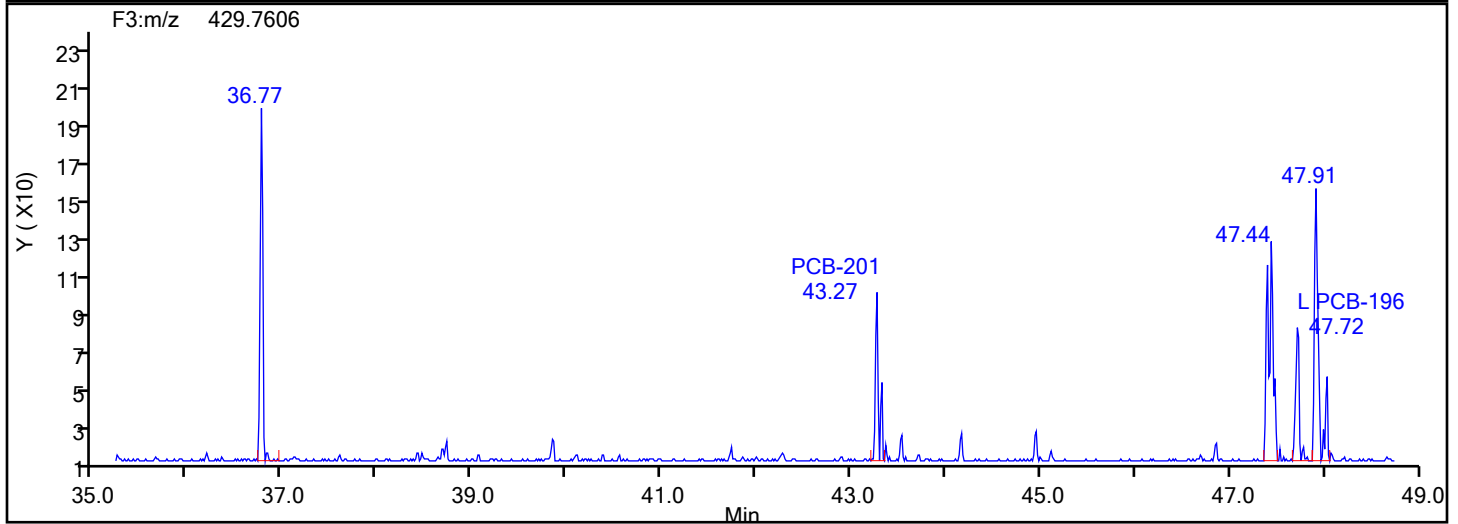
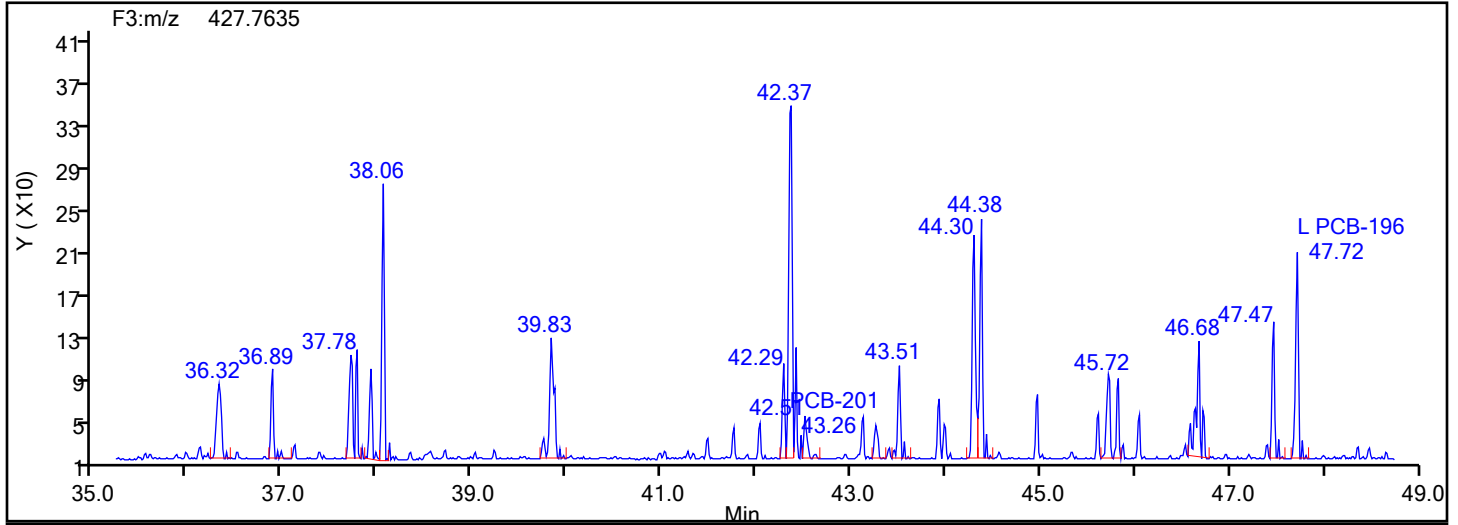


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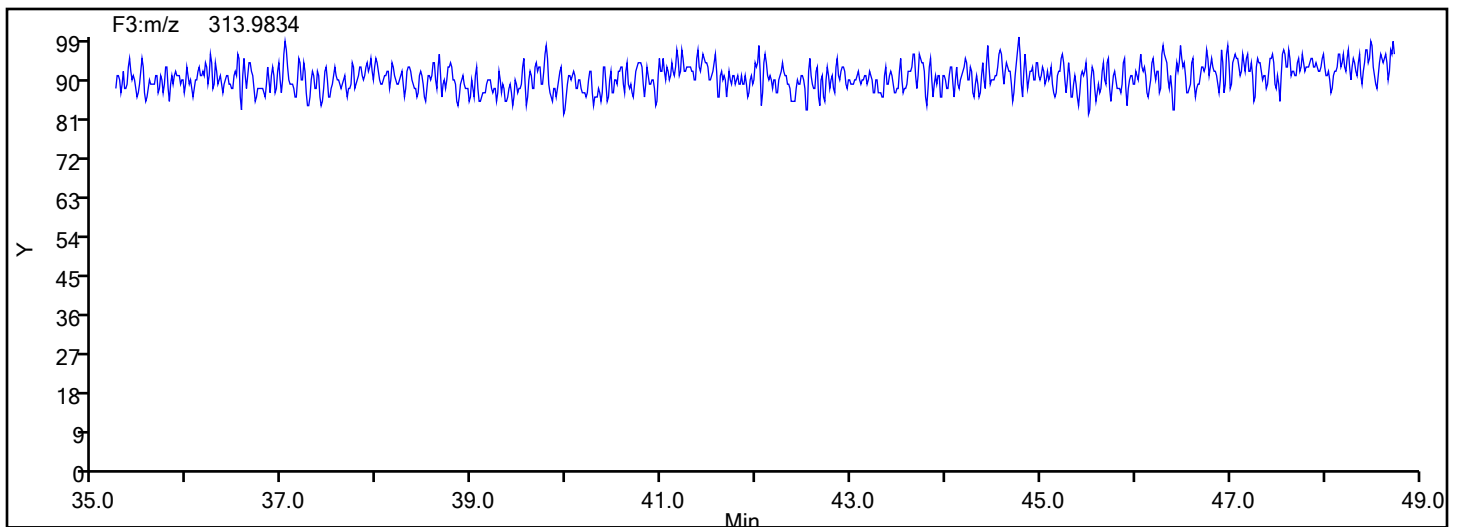


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

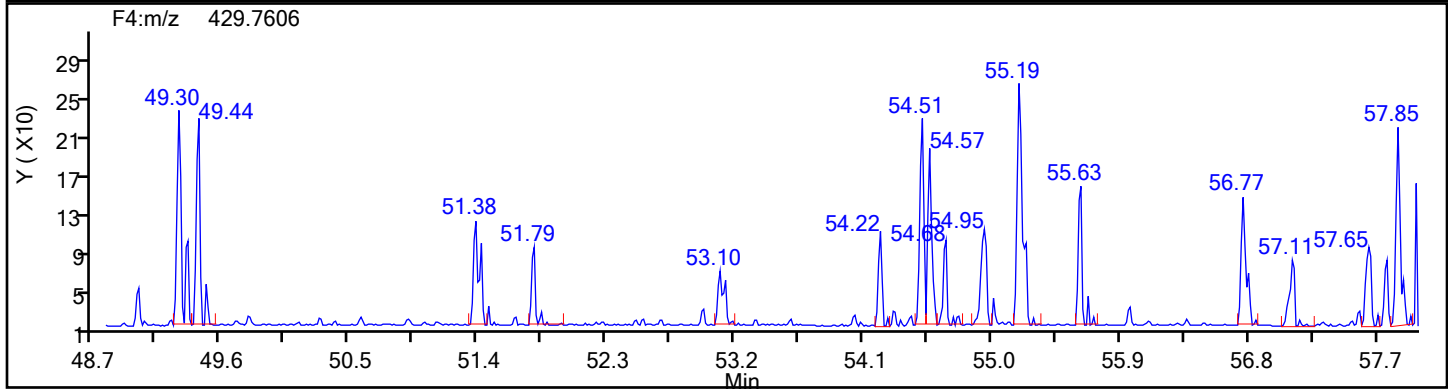
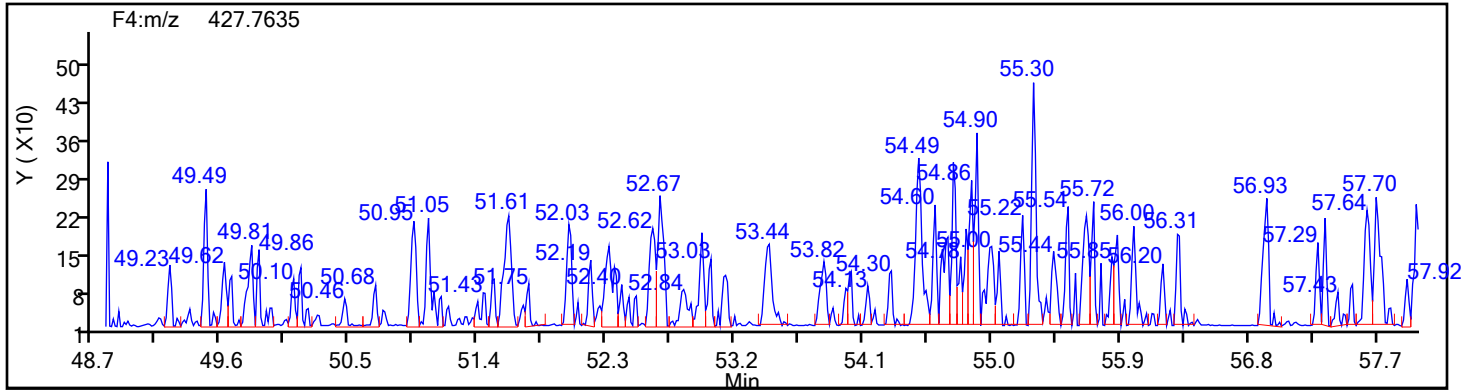


OcPCB F3 Lock Mass

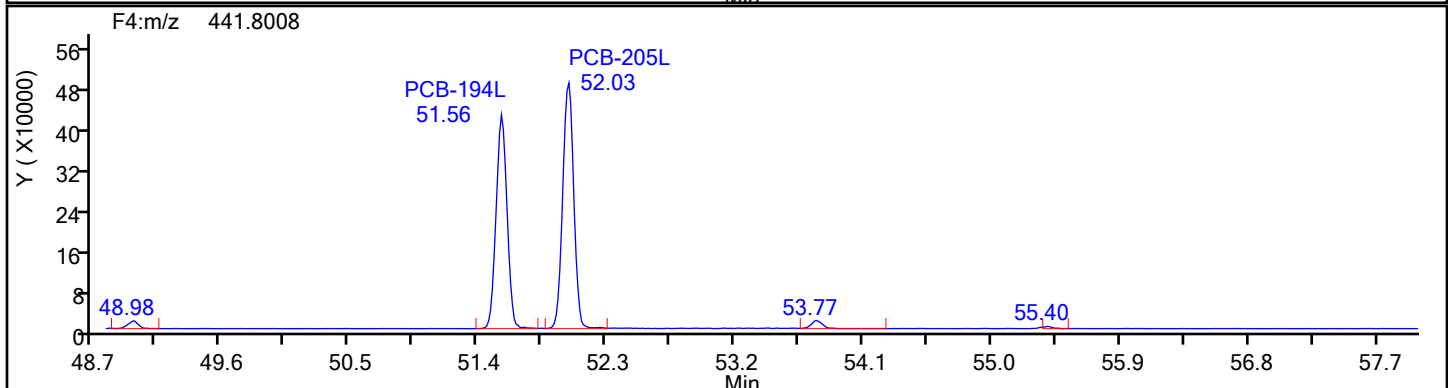
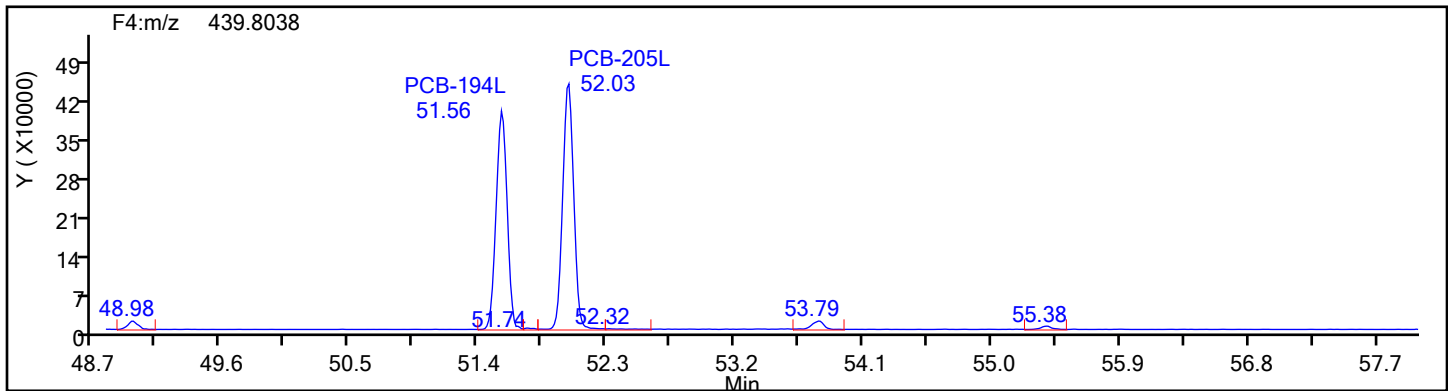


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

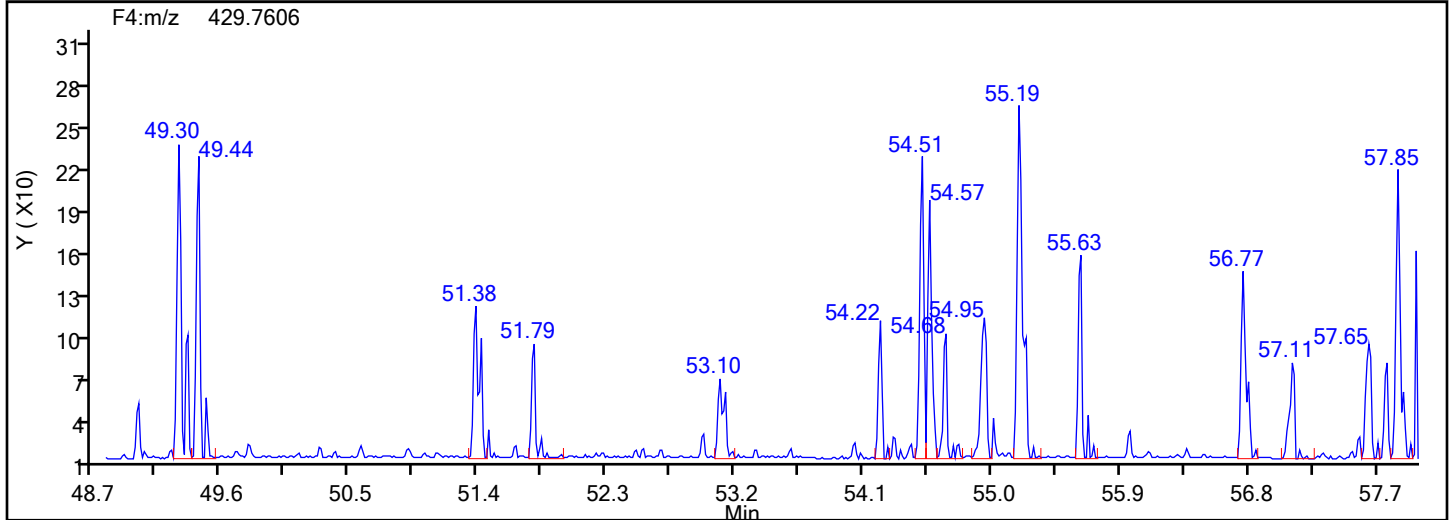
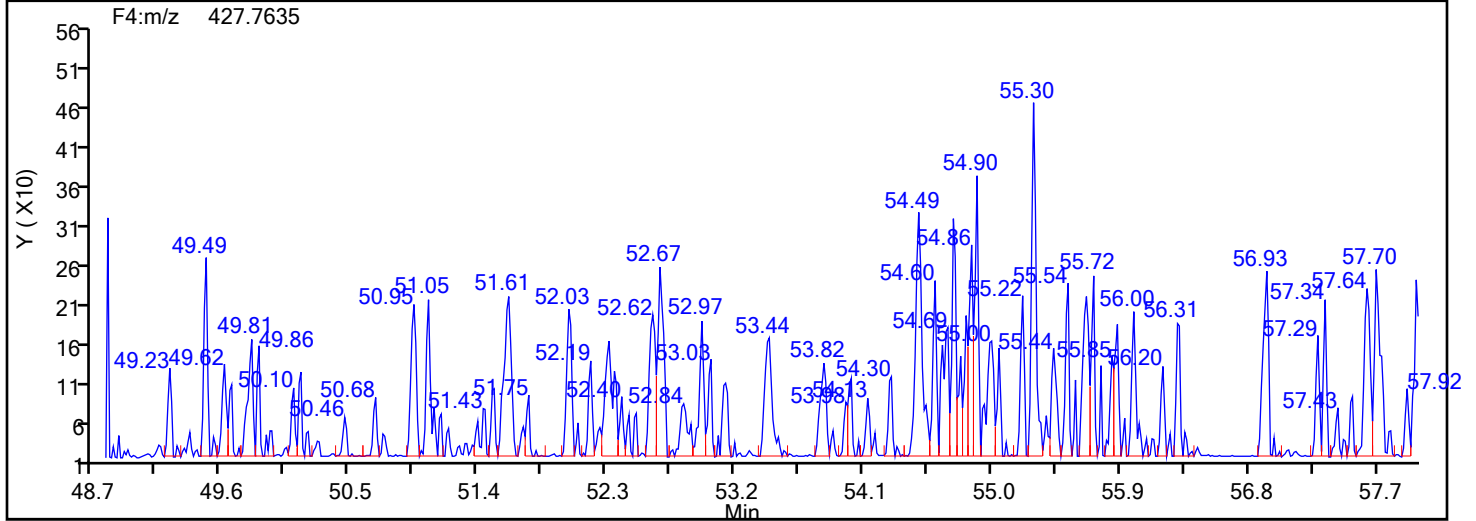


OcPCB F4 Standards

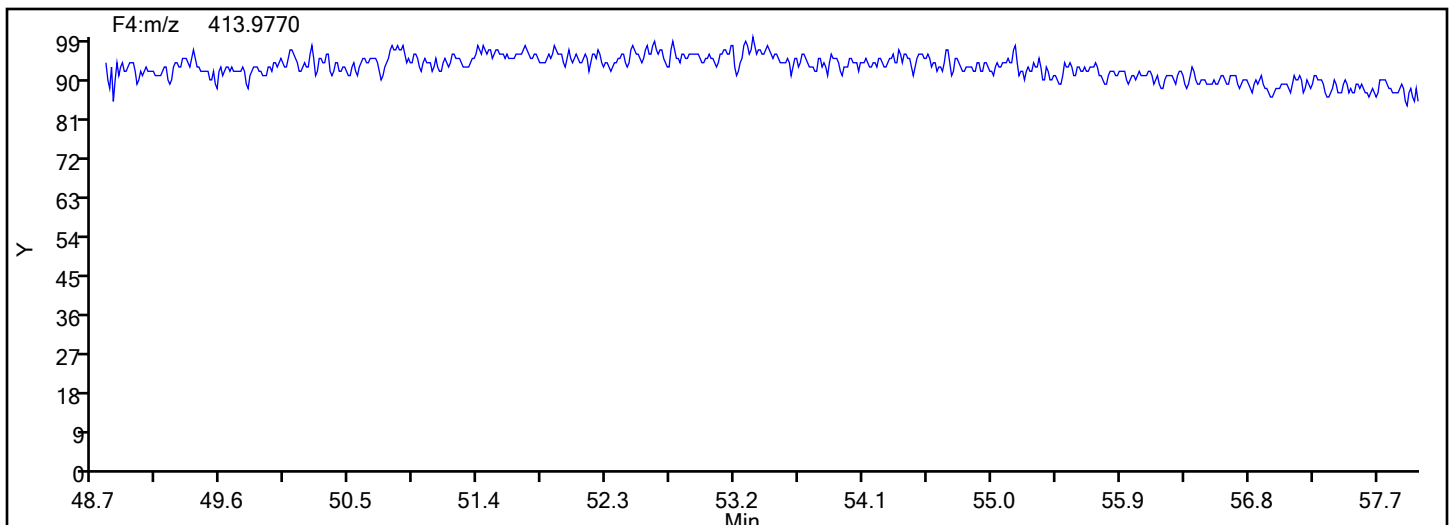


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

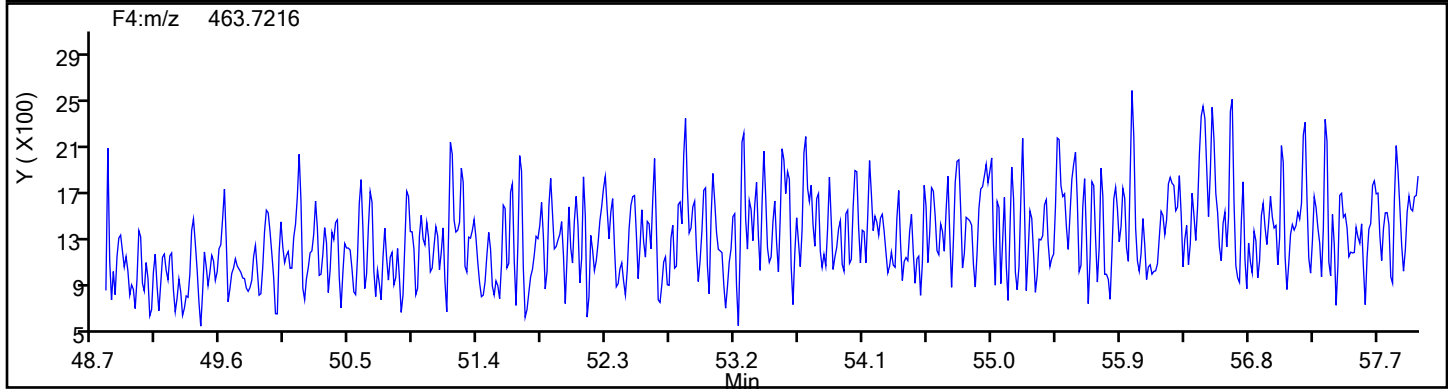
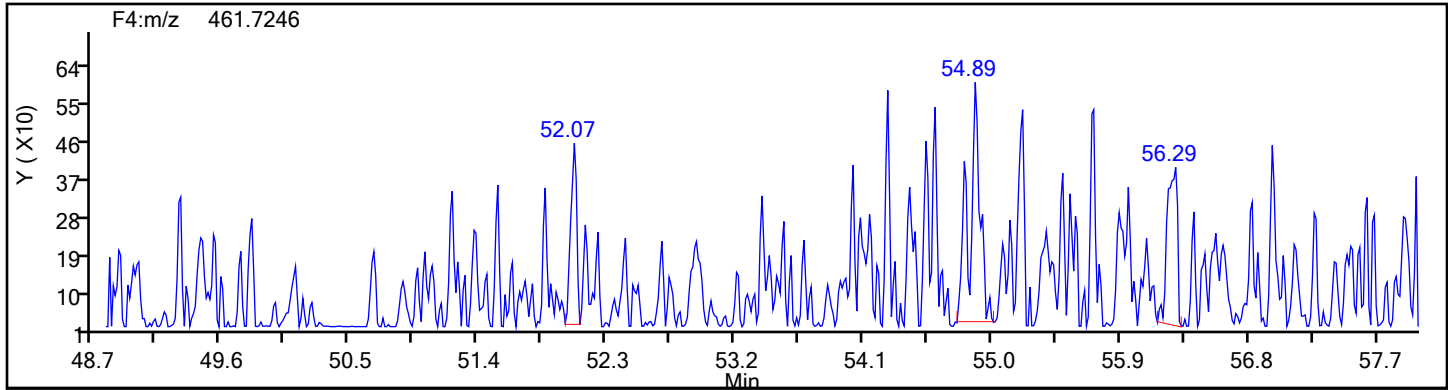


OcPCB F4 Lock Mass

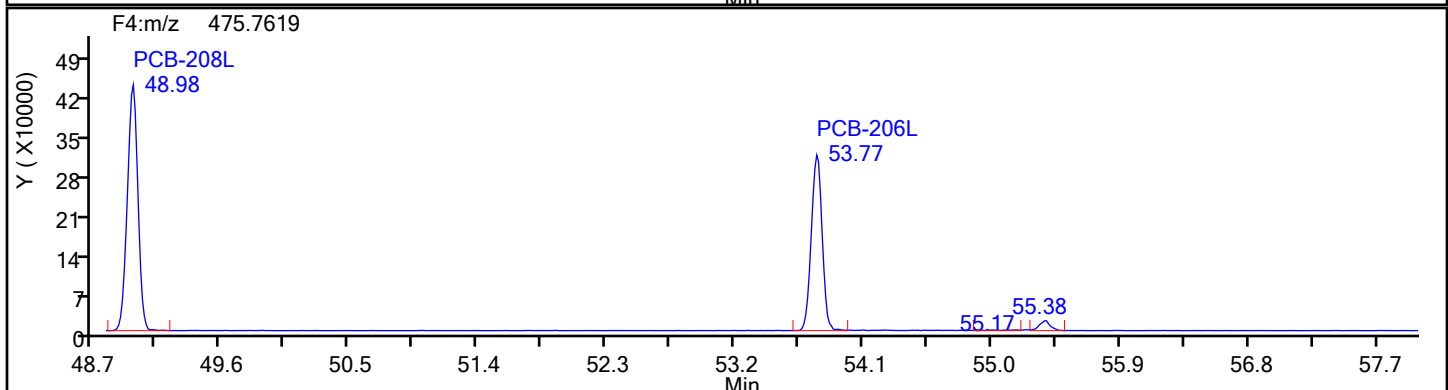
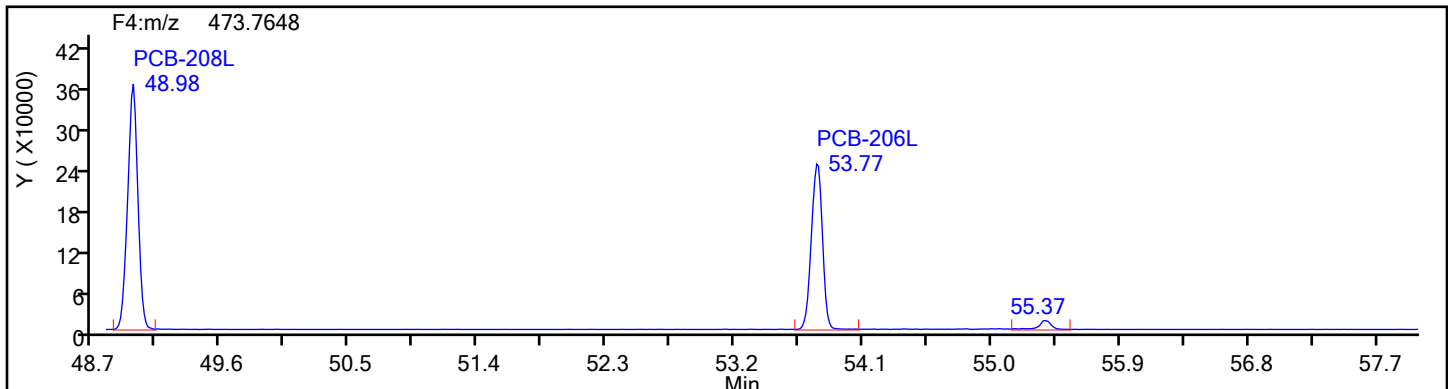


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

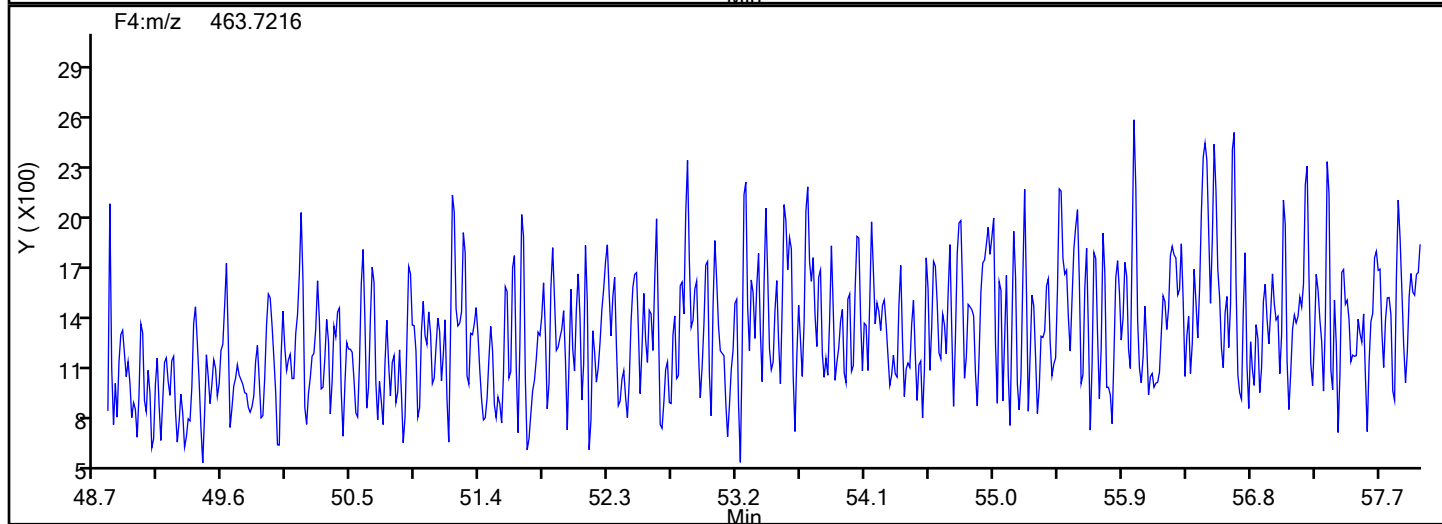
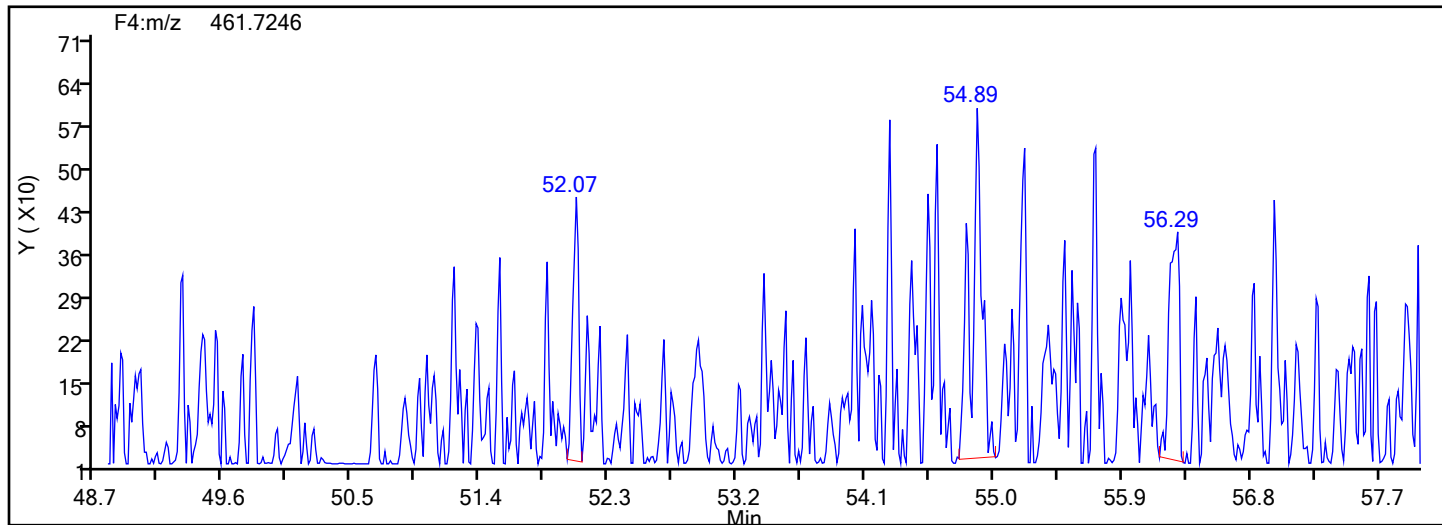


NoPCB F4 Standards

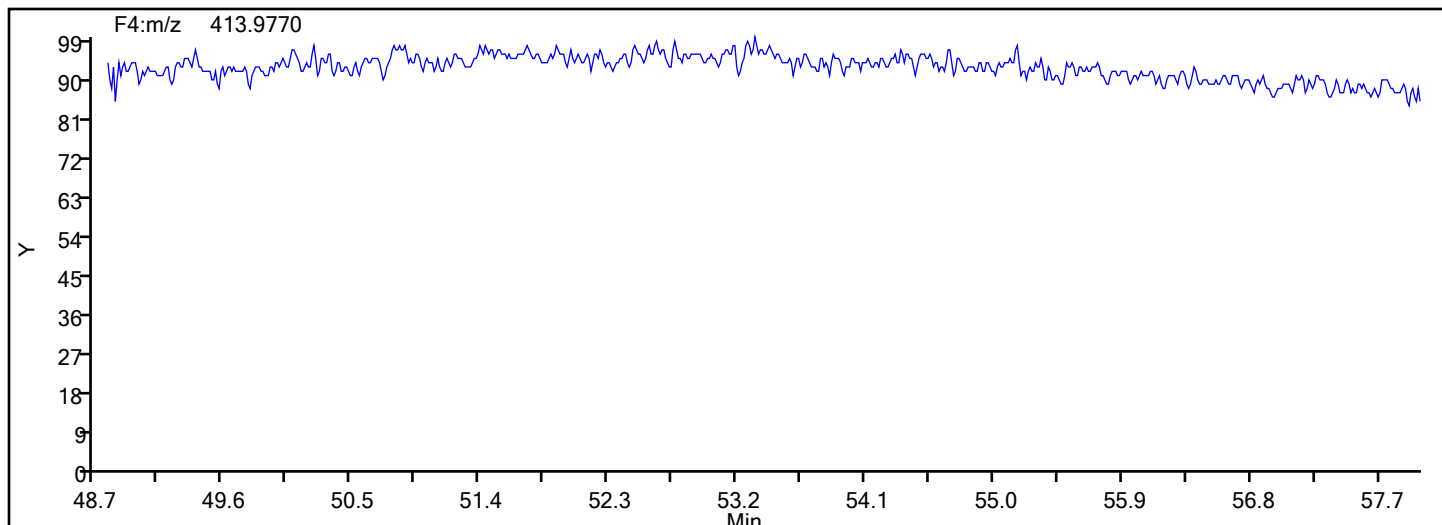


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

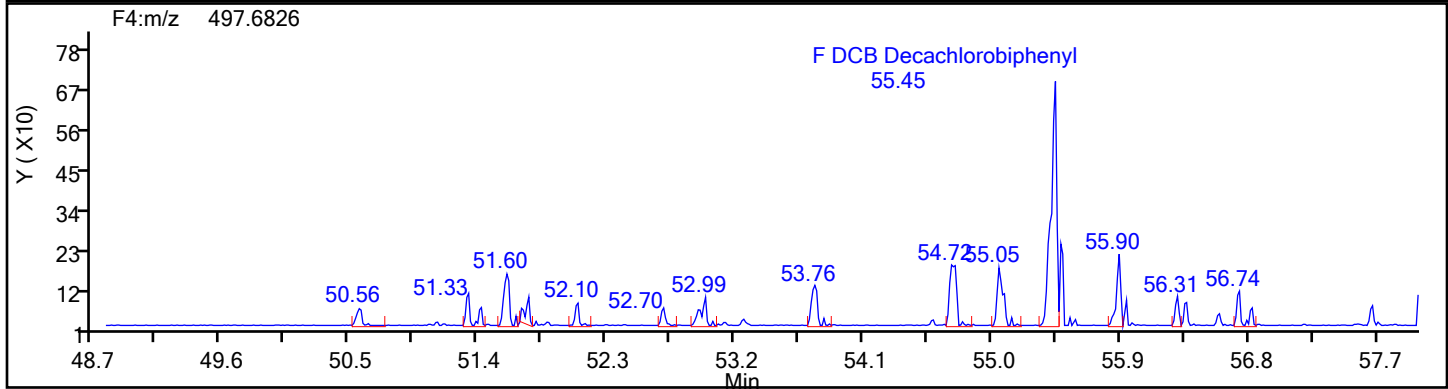
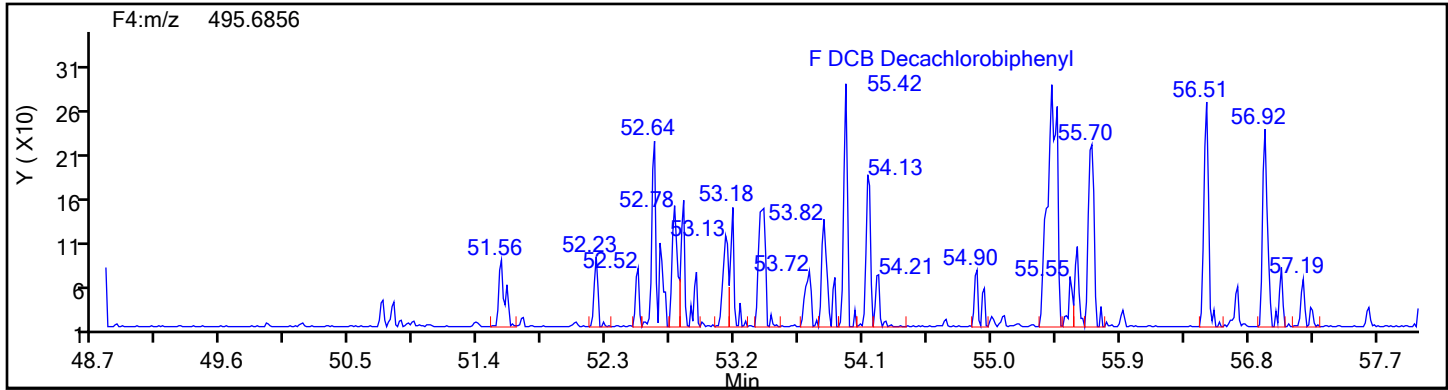


NoPCB F4 Lock Mass

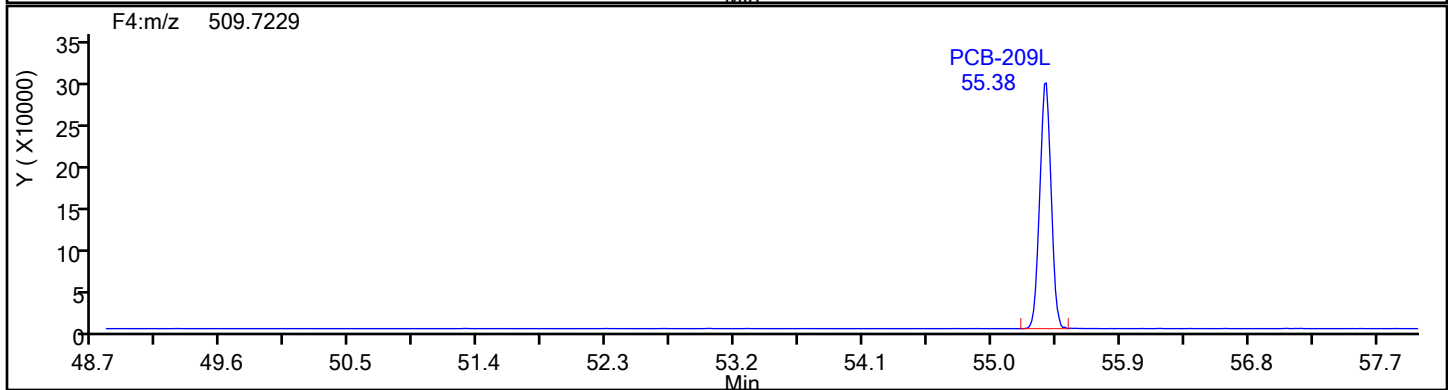
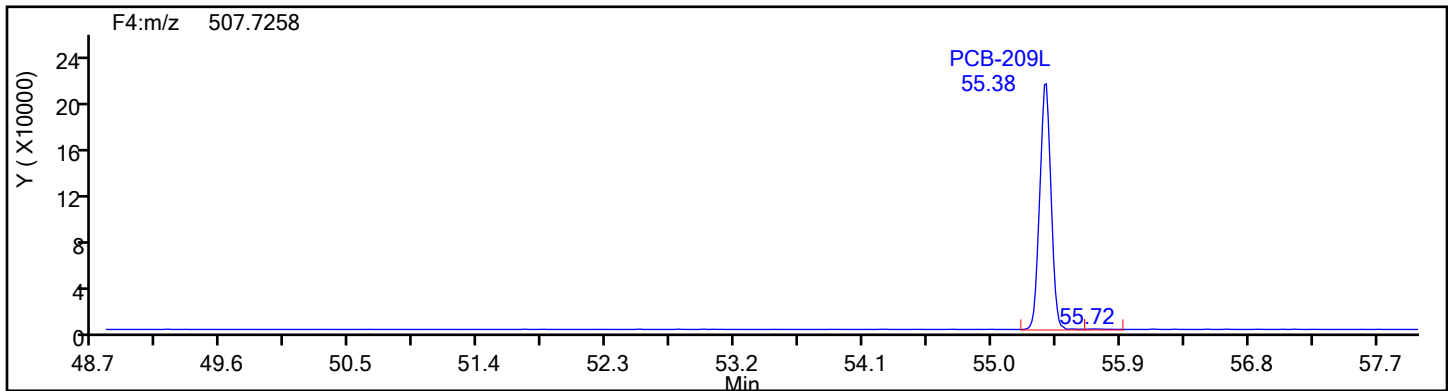


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

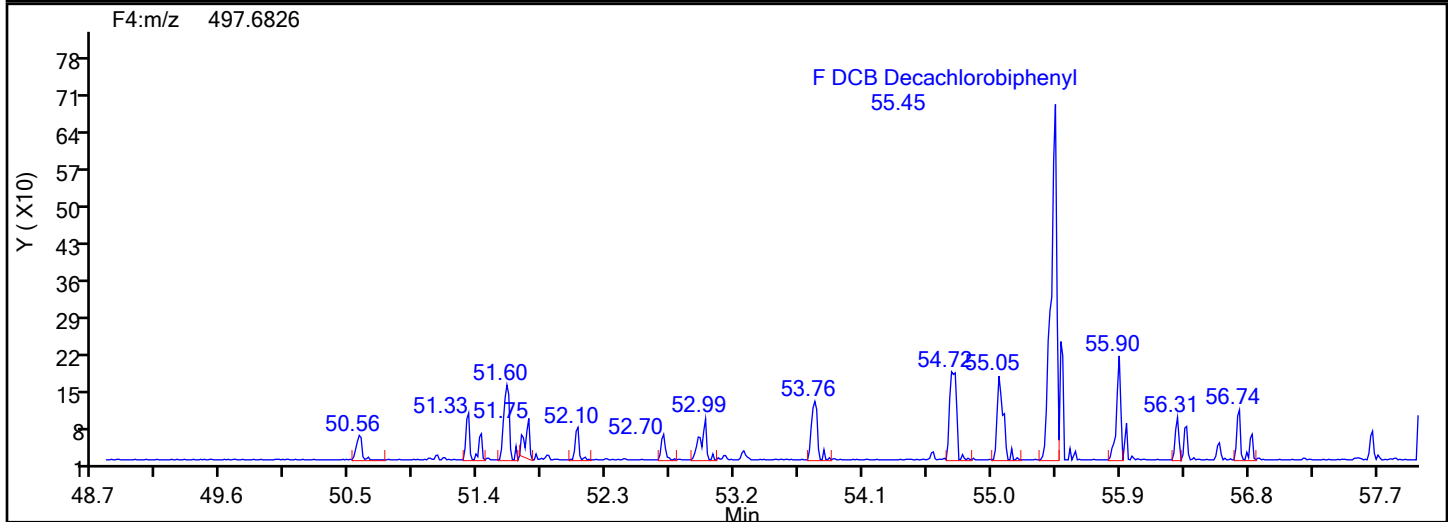
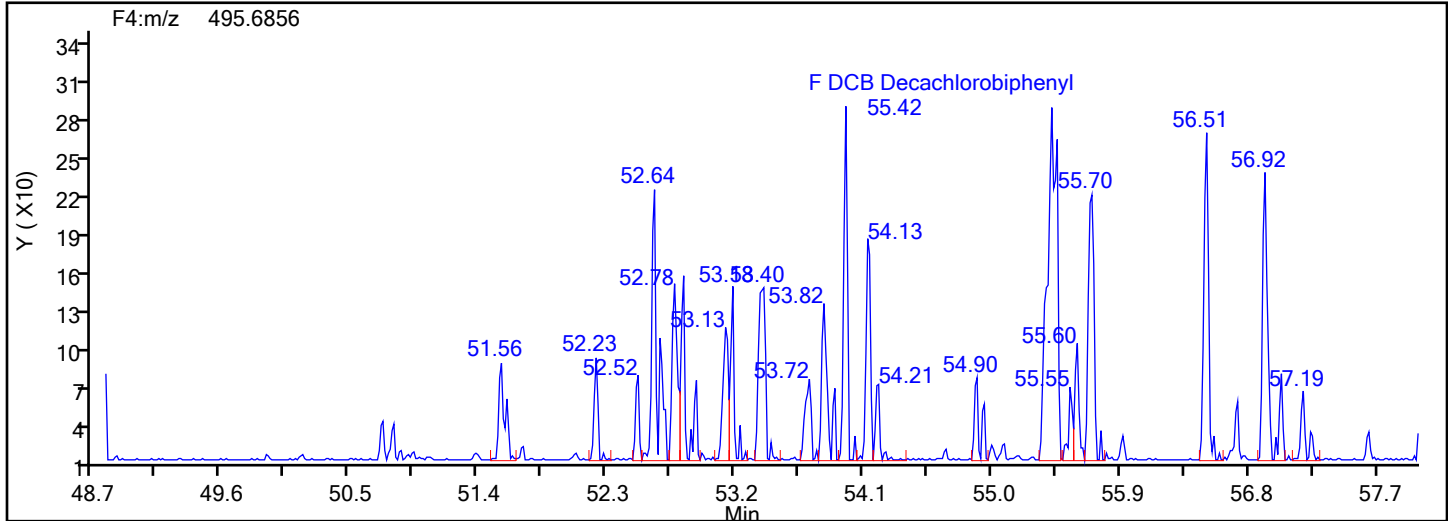


DePCB F4 Standards

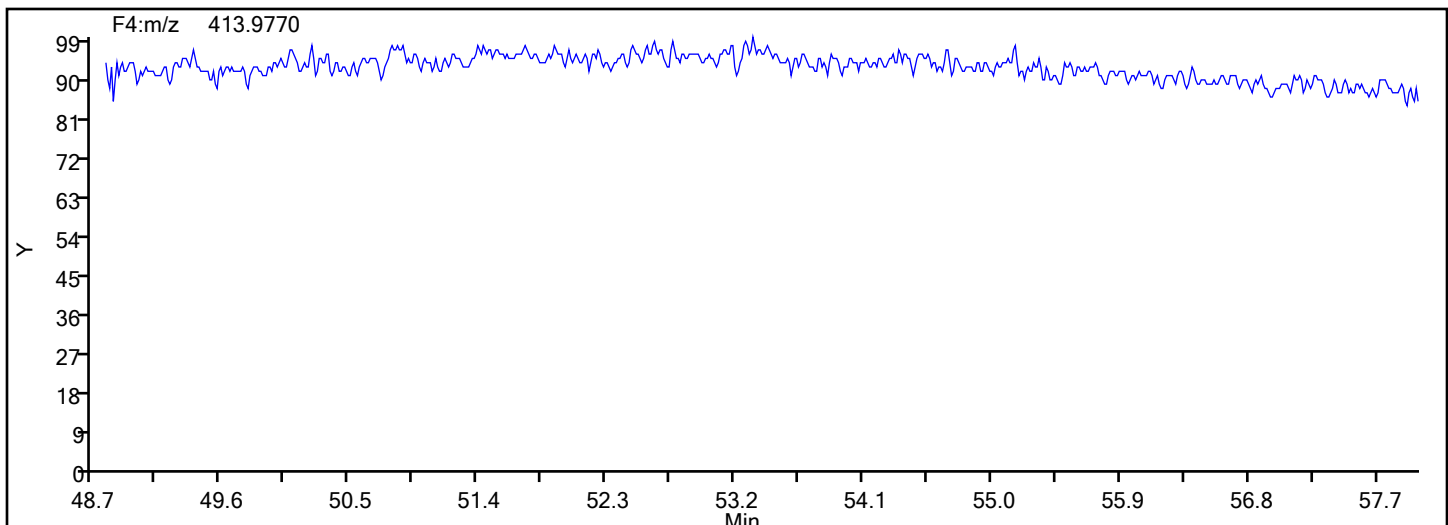


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Worklist#: 88747 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

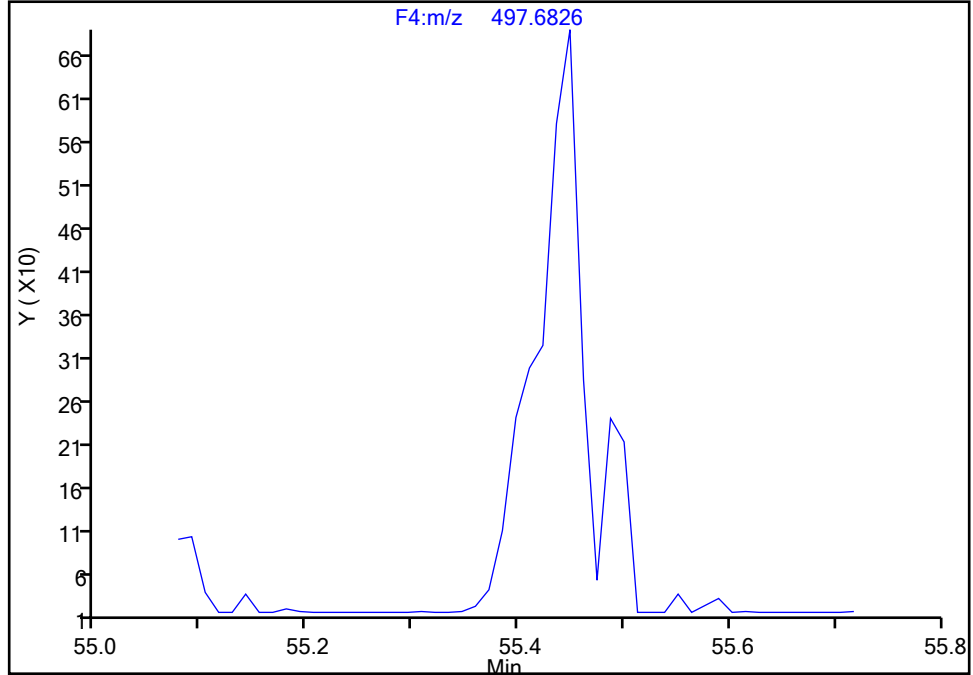
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

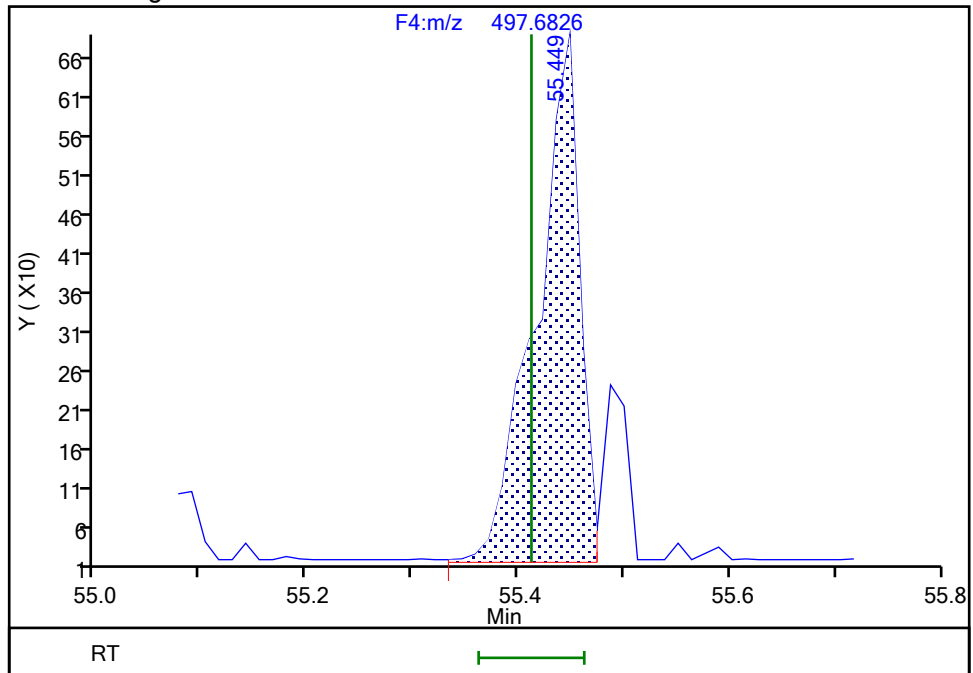
Not Detected
Expected RT: 55.41

Processing Integration Results



RT: 55.45
Area: 1904
Amount: 0.100820
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 16-Jul-2024 17:18:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

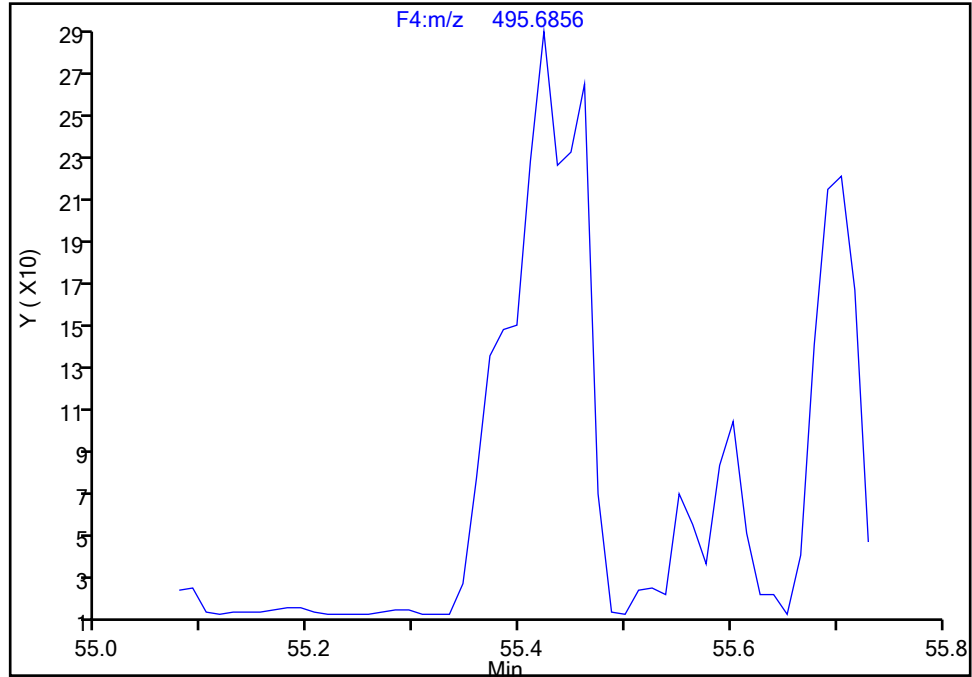
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Injection Date: 15-Jul-2024 18:33:00 Instrument ID: D2D
Lims ID: 140-37232-A-1-D Lab Sample ID: 140-37232-1
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

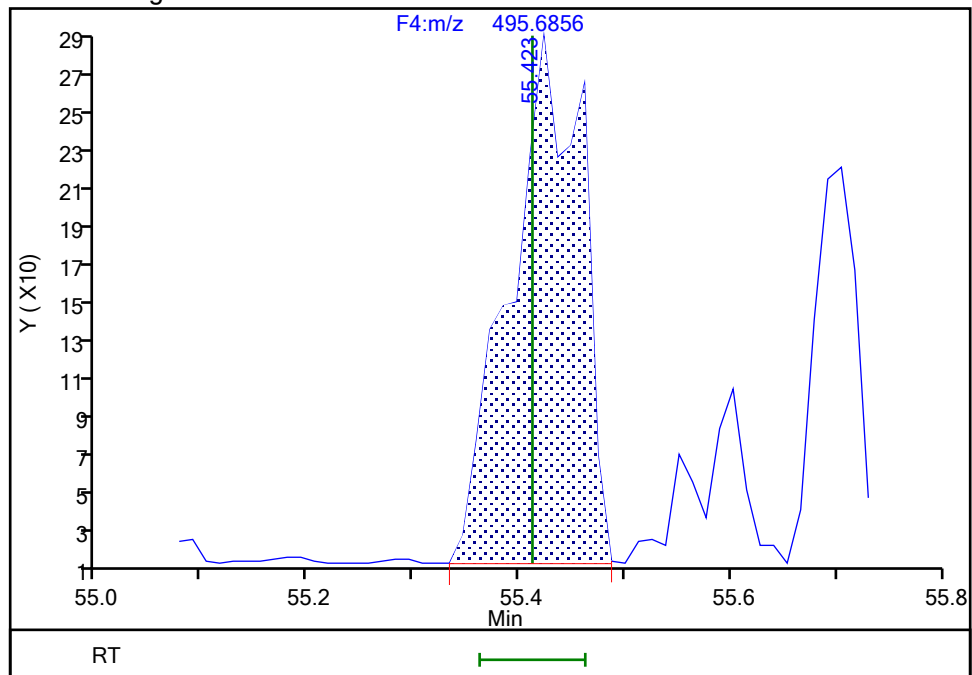
Not Detected
Expected RT: 55.41

Processing Integration Results



RT: 55.42
Area: 1260
Amount: 0.100820
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 16-Jul-2024 17:19:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1085 of 3050

BASFWHC-McIntosh-009086

9/6/2024

4:11:20 PM

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\140-37232-a-1-d.d
Lims ID: 140-37232-A-1-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED
Sample Type: Client
Inject. Date: 15-Jul-2024 18:33:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 17:21:13 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1661

First Level Reviewer: P0IK

Date: 16-Jul-2024 17:21:13

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	49.3	98.57
PCB-28L	100.0	74.8	74.79
PCB-79L	50.0	54.8	109.57
PCB-95L	50.0	55.3	110.60
PCB-111L	100.0	80.9	80.85
PCB-153L	50.0	45.5	91.05
PCB-178L	100.0	78.5	78.50

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 2 - COMBINED</u>	Lab Sample ID: <u>140-37232-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-2-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 18:55</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 03:58</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.270	J	0.600	0.132	0.0133
37680-65-2	PCB-18	0.284	J C	0.600	0.285	0.00251
7012-37-5	PCB-28	0.180	J C20 B	0.600	0.252	0.00957
41464-39-5	PCB-44	0.345	J C B	0.900	0.390	0.0240
35693-99-3	PCB-52	0.198	J q	0.300	0.132	0.0254
32598-10-0	PCB-66	0.0901	J	0.300	0.120	0.0186
32598-13-3	PCB-77	0.0979	J q	0.300	0.126	0.0215
70362-50-4	PCB-81	ND		0.300	0.0960	0.0217
37680-73-2	PCB-101	0.178	J q C90	0.900	0.390	0.00579
32598-14-4	PCB-105	0.0595	J q	0.300	0.102	0.0171
74472-37-0	PCB-114	ND		0.300	0.165	0.0186
31508-00-6	PCB-118	0.155	J	0.300	0.183	0.0172
65510-44-3	PCB-123	ND		0.300	0.171	0.0194
57465-28-8	PCB-126	ND		0.300	0.123	0.0200
38380-07-3	PCB-128	0.0752	J q C B	0.600	0.204	0.00172
35065-28-2	PCB-138	0.418	J C129	1.20	0.510	0.00179
35065-27-1	PCB-153	0.244	J q C B	0.600	0.249	0.00155
38380-08-4	PCB-156	0.0180	J q C	0.600	0.255	0.00187
69782-90-7	PCB-157	0.0180	J q C156	0.600	0.255	0.00187
52663-72-6	PCB-167	ND		0.300	0.180	0.00126
32774-16-6	PCB-169	0.00638	J	0.300	0.123	0.00125
35065-30-6	PCB-170	0.0233	J q	0.300	0.132	0.000312
35065-29-3	PCB-180	0.0294	J C	0.600	0.204	0.000246
52663-68-0	PCB-187	0.0244	J q	0.300	0.126	0.000261
39635-31-9	PCB-189	ND		0.300	0.147	0.00651
52663-78-2	PCB-195	ND		0.300	0.159	0.00218
40186-72-9	PCB-206	ND		0.300	0.171	0.0462

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Lab Sample ID: 140-37232-2
Matrix: Air	Lab File ID: 140-37232-a-2-d.d
Analysis Method: 23	Date Collected: 06/11/2024 18:55
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 03:58
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25(mm)
% Moisture: % Solids:	GPC Cleanup:(Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	0.0231	J	0.300	0.138	0.00123

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 2 - COMBINED</u>	Lab Sample ID: <u>140-37232-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-2-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 18:55</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 03:58</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	61		20-145
208263-77-8	PCB-3L	66		20-145
234432-86-1	PCB-4L	67		20-145
208263-67-6	PCB-15L	73		20-145
234432-87-2	PCB-19L	71		20-145
208263-79-0	PCB-37L	78		20-145
234432-88-3	PCB-54L	82		20-145
105600-23-5	PCB-77L	84		20-145
208461-24-9	PCB-81L	83		20-145
234432-89-4	PCB-104L	84		20-145
208263-62-1	PCB-105L	92		20-145
208263-63-2	PCB-114L	89		20-145
104130-40-7	PCB-118L	88		20-145
208263-64-3	PCB-123L	86		20-145
208263-65-4	PCB-126L	90		20-145
234432-90-7	PCB-155L	83		20-145
208263-68-7	PCB-156L	93	C	20-145
235416-30-5	PCB-157L	93	C156	20-145
208263-69-8	PCB-167L	88		20-145
208263-70-1	PCB-169L	92		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	89		20-145
208263-73-4	PCB-189L	90		20-145
105600-26-8	PCB-202L	89		20-145
234446-64-1	PCB-205L	91		20-145
208263-75-6	PCB-206L	97		20-145
234432-92-9	PCB-208L	90		20-145
105600-27-9	PCB-209L	107		20-145

FORM I

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 2 - COMBINED</u>	Lab Sample ID: <u>140-37232-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-2-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024</u> <u>18:55</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024</u> <u>14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024</u> <u>03:58</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	69		20-130
235416-29-2	PCB-111L	75		20-130
232919-67-4	PCB-178L	77		20-130
STL01600	PCB-8L	114		70-130
STL01603	PCB-79L	111		70-130
STL01604	PCB-95L	115		70-130
STL01606	PCB-153L	97		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
Lims ID: 140-37232-A-2-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-007
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 02:34:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 02:34:15

Compound	RT (min.)	Area	Ratio	lcal RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					5.271	5.238	0.0252	0.0252		RQ
D PCB-1L	11:36	5847163	3.12	1.6108	61.3	61.3	0.2656	0.2656	61.27	
D PCB-3L	13:45	6203867	3.21	1.5891	65.9	65.9	0.2693	0.2693	65.90	
PCB-1	11:37	148831	2.90	1.2191	2.088	2.088	0.0231	0.0231		
PCB-2	13:35	38489	3.13	1.1805	0.5740	0.5411	0.0257	0.0257		RQ
PCB-3	13:46	197590	3.08	1.2206	2.609	2.609	0.0269	0.0269		
S Total Dichlorobiphenyls					6.509	6.045	0.0511	0.0511		RQ
D PCB-4L	14:00	2565221	1.59	0.6475	66.9	66.9	0.1967	0.1967	66.87	
* PCB-9L	15:56	5924280	1.61		100.0	100.0				
\$ PCB-8L	16:47	2469620	1.59	1.2066	56.8	56.8	0.1952	0.1952	114	
D PCB-15L	19:51	4636412	1.63	1.0789	72.5	72.5	0.1181	0.1181	72.54	
PCB-4	14:01	33308	1.56	1.2818	1.013	1.013	0.0618	0.0618		
PCB-10	14:13						0.0534	0.0534		
PCB-9	15:57	9298	1.56	1.4224	0.2278	0.1815	0.0494	0.0494		RQ
PCB-7	16:07	11078	1.56	1.4134	0.2533	0.2177	0.0497	0.0497		RQ
PCB-6	16:22	18585	1.42	1.5421	0.3347	0.3347	0.0455	0.0455		M
PCB-5	16:43						0.0524	0.0524		
PCB-8	16:48	51567	1.56	1.5889	0.9013	0.9013	0.0442	0.0442		M
PCB-14	18:26						0.0501	0.0501		
PCB-11	19:15	137461	1.56	1.2951	3.300	2.948	0.0542	0.0542		RQM
PCB-12	19:35	9699	1.56	1.3358	0.2304	0.2016	0.0526	0.0526		RQ
PCB-13 (C12)	19:35	9699	1.56	1.3358	0.2304	0.2016	0.0526	0.0526		RQ
PCB-15	19:53	14823	1.55	1.2903	0.2478	0.2478	0.0489	0.0489		
S Total Trichlorobiphenyls					5.108	4.789	0.0248	0.0248		RQ
D PCB-19L	17:05	1755648	1.09	0.6285	71.0	71.0	0.5613	0.5613	71.00	
* PCB-32L	20:19	3934313	1.07		100.0	100.0				
* PCB-31L	22:34	8933319	1.07		100.0	100.0				
\$ PCB-28L	22:52	6507606	1.06	1.0494	69.4	69.4	0.1956	0.1956	69.42	
D PCB-37L	26:52	6094279	1.05	0.8749	78.0	78.0	0.2346	0.2346	77.97	
PCB-19	17:07	4825	0.99	1.2809	0.2146	0.2146	0.0116	0.0116		
PCB-18	18:58	29339	1.15	1.7652	0.9467	0.9467	0.008383	0.008383		a
PCB-30 (C18)	18:58	29339	1.15	1.7652	0.9467	0.9467	0.008383	0.008383		a
PCB-17	19:21	10087	1.04	1.2430	0.5100	0.4622	0.0119	0.0119		RQ
PCB-27	19:36	2449	1.04	1.8327	0.0889	0.0761	0.008074	0.008074		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:45	486	1.04	1.6777	0.0299	0.0165	0.008821	0.008821		RQMa
PCB-16	19:50	8830	1.04	1.1286	0.5236	0.4456	0.0131	0.0131		RQM
PCB-32	20:21	7571	1.04	1.8324	0.2636	0.2353	0.008076	0.008076		RQM
PCB-34	21:36						0.0331	0.0331		
PCB-23	21:45						0.0346	0.0346		
PCB-26	22:02	7538	1.04	1.1255	0.1253	0.1099	0.0332	0.0332		RQ
PCB-29 (C26)	22:02	7538	1.04	1.1255	0.1253	0.1099	0.0332	0.0332		RQ
PCB-25	22:16	6181	1.04	1.2728	0.0868	0.0797	0.0294	0.0294		RQ
PCB-31	22:35	41460	1.00	1.1532	0.5899	0.5899	0.0324	0.0324		
PCB-20	22:53	42773	1.13	1.1718	0.5990	0.5990	0.0319	0.0319		
PCB-28 (C20)	22:53	42773	1.13	1.1718	0.5990	0.5990	0.0319	0.0319		
PCB-21	23:08	25618	1.04	1.0746	0.4890	0.3912	0.0348	0.0348		RQM
PCB-33 (C21)	23:08	25618	1.04	1.0746	0.4890	0.3912	0.0348	0.0348		RQM
PCB-22	23:31	18641	1.03	1.1932	0.2563	0.2563	0.0313	0.0313		M
PCB-36	25:05						0.0338	0.0338		
PCB-39	25:27						0.0323	0.0323		
PCB-38	26:01						0.0345	0.0345		
PCB-35	26:28	13933	0.91	1.1297	0.2024	0.2024	0.0331	0.0331		
PCB-37	26:54	11433	1.04	1.1435	0.1825	0.1641	0.0327	0.0327		RQ
S Total Tetrachlorobiphenyls					3.741	3.545	0.0708	0.0708		RQ
D PCB-54L	20:09	1796904	0.79	0.5562	82.1	82.1	0.0707	0.0707	82.11	
* PCB-52L	24:41	4632157	0.80		100.0	100.0				
\$ PCB-79L	32:36	2748354	0.78	1.0018	55.4	55.4	0.3694	0.3694	111	
D PCB-81L	33:36	4784900	0.79	1.2470	82.8	82.8	0.2559	0.2559	82.84	
D PCB-77L	34:09	5116540	0.82	1.3212	83.6	83.6	0.2415	0.2415	83.60	
PCB-54	20:12						0.006550	0.006550		
PCB-50	22:21						0.0909	0.0909		
PCB-53 (C50)	22:21						0.0909	0.0909		
PCB-45	23:05						0.0943	0.0943		
PCB-51 (C45)	23:05						0.0943	0.0943		
PCB-46	23:20						0.1098	0.1098		
PCB-52	24:43	30036	0.77	0.9194	0.7160	0.6599	0.0848	0.0848		RQ
PCB-43	24:52						0.0755	0.0755		
PCB-73 (C43)	24:52						0.0755	0.0755		
PCB-49	25:12	14541	0.77	1.0685	0.3080	0.2749	0.0730	0.0730		RQ
PCB-69 (C49)	25:12	14541	0.77	1.0685	0.3080	0.2749	0.0730	0.0730		RQ
PCB-48	25:29						0.0928	0.0928		
PCB-44	25:44	55428	0.73	0.9731	1.151	1.151	0.0801	0.0801		
PCB-47 (C44)	25:44	55428	0.73	0.9731	1.151	1.151	0.0801	0.0801		
PCB-65 (C44)	25:44	55428	0.73	0.9731	1.151	1.151	0.0801	0.0801		
PCB-59	26:03						0.0658	0.0658		
PCB-62 (C59)	26:03						0.0658	0.0658		
PCB-75 (C59)	26:03						0.0658	0.0658		
PCB-42	26:15						0.0963	0.0963		
PCB-40	26:45	11616	0.73	0.8863	0.2647	0.2647	0.0880	0.0880		M
PCB-41 (C40)	26:45	11616	0.73	0.8863	0.2647	0.2647	0.0880	0.0880		M
PCB-71 (C40)	26:45	11616	0.73	0.8863	0.2647	0.2647	0.0880	0.0880		M
PCB-64	26:57						0.0662	0.0662		
PCB-72	27:46						0.0713	0.0713		
PCB-68	28:04						0.0622	0.0622		
PCB-57	28:29						0.0721	0.0721		
PCB-58	28:44						0.0588	0.0588		
PCB-67	28:53						0.0548	0.0548		
PCB-63	29:09						0.0694	0.0694		
PCB-61	29:31	35507	0.77	1.2612	0.6197	0.5687	0.0618	0.0618		RQ
PCB-70 (C61)	29:31	35507	0.77	1.2612	0.6197	0.5687	0.0618	0.0618		RQ
PCB-74 (C61)	29:31	35507	0.77	1.2612	0.6197	0.5687	0.0618	0.0618		RQ
PCB-76 (C61)	29:31	35507	0.77	1.2612	0.6197	0.5687	0.0618	0.0618		RQ
PCB-66	29:46	18703	0.72	1.2583	0.3002	0.3002	0.0620	0.0620		M
PCB-55	29:59						0.0589	0.0589		
PCB-56	30:30						0.0632	0.0632		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42						0.0694	0.0694		
PCB-80	31:06						0.0589	0.0589		
PCB-79	32:38						0.0543	0.0543		
PCB-78	33:11						0.0671	0.0671		
PCB-81	33:38						0.0723	0.0723		
PCB-77	34:10	18093	0.77	1.0836	0.3821	0.3263	0.0718	0.0718		RQ
S Total Pentachlorobiphenyls					4.452	3.758	0.0333	0.0333		RQ
D PCB-104L	25:37	3168079	1.61	1.2161	83.9	83.9	0.0639	0.0639	83.86	
\$ PCB-95L	28:36	1313696	1.57	0.7218	57.4	57.4	0.0973	0.0973	115	
* PCB-101L	31:31	3106738	1.67		100.0	100.0				
\$ PCB-111L	34:11	3185715	1.60	1.3699	74.9	74.9	0.0567	0.0567	74.85	
D PCB-123L	36:09	4600516	1.58	0.9731	85.6	85.6	1.114	1.114	85.55	
D PCB-118L	36:28	4898144	1.60	1.0102	87.8	87.8	1.073	1.073	87.75	
D PCB-114L	36:59	4887504	1.62	0.9949	88.9	88.9	1.090	1.090	88.91	
D PCB-105L	37:39	4840420	1.61	0.9514	92.1	92.1	1.140	1.140	92.07	
* PCB-127L	39:07	5525699	1.62		100.0	100.0				
D PCB-126L	40:44	4668069	1.61	0.9439	89.5	89.5	1.149	1.149	89.50	
PCB-104	25:40						0.0183	0.0183		
PCB-96	26:03	196	1.55	1.0940	0.0376	0.005655	0.0169	0.0169		RQM
PCB-103	27:57						0.0211	0.0211		
PCB-94	28:11						0.0241	0.0241		
PCB-95	28:38	8975	1.55	0.8033	0.4594	0.3527	0.0229	0.0229		RQM
PCB-93	28:50						0.0219	0.0219		
PCB-100 (C93)	28:50						0.0219	0.0219		
PCB-98	28:59						0.0223	0.0223		
PCB-102 (C98)	28:59						0.0223	0.0223		
PCB-88	29:31	583	1.55	0.8013	0.1006	0.0230	0.0230	0.0230		RQ
PCB-91 (C88)	29:31	583	1.55	0.8013	0.1006	0.0230	0.0230	0.0230		RQ
PCB-84	29:45	4104	1.35	0.7299	0.1775	0.1775	0.0253	0.0253		M
PCB-89	30:11						0.0236	0.0236		
PCB-121	30:34						0.0142	0.0142		
PCB-92	30:58	2973	1.55	0.8546	0.1262	0.1098	0.0216	0.0216		RQM
PCB-90	31:32	17913	1.55	0.9550	0.7411	0.5921	0.0193	0.0193		RQ
PCB-101 (C90)	31:32	17913	1.55	0.9550	0.7411	0.5921	0.0193	0.0193		RQ
PCB-113 (C90)	31:32	17913	1.55	0.9550	0.7411	0.5921	0.0193	0.0193		RQ
PCB-83	32:05	7973	1.55	0.8385	0.3944	0.3001	0.0220	0.0220		RQM
PCB-99 (C83)	32:05	7973	1.55	0.8385	0.3944	0.3001	0.0220	0.0220		RQM
PCB-112	32:14						0.0131	0.0131		
PCB-86	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-87 (C86)	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-97 (C86)	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-109 (C86)	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-119 (C86)	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-125 (C86)	32:38	16279	1.55	1.0473	0.6052	0.4906	0.0176	0.0176		RQM
PCB-85	33:19	4929	1.55	1.0408	0.1923	0.1495	0.0177	0.0177		RQ
PCB-116 (C85)	33:19	4929	1.55	1.0408	0.1923	0.1495	0.0177	0.0177		RQ
PCB-117 (C85)	33:19	4929	1.55	1.0408	0.1923	0.1495	0.0177	0.0177		RQ
PCB-110	33:31	21584	1.65	1.1919	0.5716	0.5716	0.0155	0.0155		
PCB-115 (C110)	33:31	21584	1.65	1.1919	0.5716	0.5716	0.0155	0.0155		
PCB-82	33:52	3891	1.63	0.8303	0.1479	0.1479	0.0222	0.0222		
PCB-111	34:12						0.0152	0.0152		
PCB-120	34:40						0.0125	0.0125		
PCB-108	35:49						0.0607	0.0607		
PCB-124 (C108)	35:49						0.0607	0.0607		
PCB-107	36:04						0.0571	0.0571		
PCB-123	36:11						0.0645	0.0645		
PCB-106	36:18						0.0639	0.0639		
PCB-118	36:29	30558	1.47	1.2055	0.5175	0.5175	0.0573	0.0573		M
PCB-122	36:52						0.0724	0.0724		
PCB-114	37:02						0.0619	0.0619		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:40	11408	1.55	1.1879	0.2589	0.1984	0.0571	0.0571		RQM
PCB-127	39:09	6616	1.71	1.1394	0.1215	0.1215	0.0608	0.0608		M
PCB-126	40:47						0.0667	0.0667		
S Total Hexachlorobiphenyls					4.662	4.358	0.005119	0.005119		RQ
D PCB-155L	31:15	2782365	1.31	1.0851	82.5	82.5	0.0448	0.0448	82.53	
\$ PCB-153L	38:19	1857720	1.27	0.9169	48.3	48.3	0.7151	0.7151	96.66	
* PCB-138L	39:34	3714062	1.28		100.0	100.0				
D PCB-167L	42:34	4109662	1.28	1.2572	88.0	88.0	0.4713	0.4713	88.01	
D PCB-156L	43:45	8403436	1.28	1.2106	186.9	186.9	0.4894	0.4894	93.45	
D PCB-157L (C156L)	43:45	8403436	1.28	1.2106	186.9	186.9	0.4894	0.4894	93.45	
D PCB-169L	46:57	4254539	1.26	1.2439	92.1	92.1	0.4763	0.4763	92.09	
PCB-155	31:17						0.002761	0.002761		
PCB-152	31:31						0.002636	0.002636		
PCB-150	31:40						0.002574	0.002574		
PCB-136	32:03						0.002578	0.002578		
PCB-145	32:20						0.002693	0.002693		
PCB-148	33:50						0.003430	0.003430		
PCB-135	34:31	3018	1.24	0.7256	0.1747	0.1495	0.003594	0.003594		RQM
PCB-151 (C135)	34:31	3018	1.24	0.7256	0.1747	0.1495	0.003594	0.003594		RQM
PCB-154	34:41						0.003208	0.003208		
PCB-144	35:00	196	1.24	0.7852	0.0189	0.008971	0.003321	0.003321		RQ
PCB-147	35:21	19998	1.14	0.8950	0.5330	0.5330	0.006297	0.006297		
PCB-149 (C147)	35:21	19998	1.14	0.8950	0.5330	0.5330	0.006297	0.006297		
PCB-134	35:40						0.007074	0.007074		
PCB-143 (C134)	35:40						0.007074	0.007074		
PCB-139	35:57						0.006427	0.006427		
PCB-140 (C139)	35:57						0.006427	0.006427		
PCB-131	36:10						0.007511	0.007511		
PCB-142	36:19						0.007507	0.007507		
PCB-132	36:36	10196	1.24	0.7489	0.3551	0.3248	0.007525	0.007525		RQ
PCB-133	37:07	666	1.24	0.8096	0.0219	0.0196	0.006961	0.006961		RQ
PCB-165	37:30						0.005500	0.005500		
PCB-146	37:43	6746	1.13	0.9637	0.1670	0.1670	0.005848	0.005848		
PCB-161	37:53						0.004993	0.004993		
PCB-153	38:21	37349	1.24	1.0938	0.9042	0.8146	0.005152	0.005152		RQ
PCB-168 (C153)	38:21	37349	1.24	1.0938	0.9042	0.8146	0.005152	0.005152		RQ
PCB-141	38:34	9487	1.14	0.8755	0.2585	0.2585	0.006437	0.006437		M
PCB-130	38:58	1855	1.24	0.7051	0.0829	0.0628	0.007992	0.007992		RQ
PCB-137	39:10	3640	1.24	0.7767	0.1268	0.1118	0.007256	0.007256		RQM
PCB-164	39:19	3042	1.24	1.0382	0.0881	0.0699	0.005428	0.005428		RQM
PCB-129	39:37	55280	1.08	0.9464	1.393	1.393	0.005955	0.005955		
PCB-138 (C129)	39:37	55280	1.08	0.9464	1.393	1.393	0.005955	0.005955		
PCB-160 (C129)	39:37	55280	1.08	0.9464	1.393	1.393	0.005955	0.005955		
PCB-163 (C129)	39:37	55280	1.08	0.9464	1.393	1.393	0.005955	0.005955		
PCB-158	40:00	6160	1.24	1.3110	0.1372	0.1121	0.004298	0.004298		RQ
PCB-128	40:53	10333	1.24	0.9829	0.2836	0.2508	0.005733	0.005733		RQM
PCB-166 (C128)	40:53	10333	1.24	0.9829	0.2836	0.2508	0.005733	0.005733		RQM
PCB-159	41:50						0.004067	0.004067		
PCB-162	42:08						0.004483	0.004483		
PCB-167	42:36						0.004202	0.004202		
PCB-156	43:45	2805	1.24	1.1104	0.0957	0.0601	0.006218	0.006218		RQ
PCB-157 (C156)	43:45	2805	1.24	1.1104	0.0957	0.0601	0.006218	0.006218		RQ
PCB-169	47:00	1052	1.38	1.1628	0.0213	0.0213	0.004157	0.004157		
S Total Heptachlorobiphenyls					0.6400	0.5328	0.001873	0.001873		RQ
D PCB-188L	36:58	3236384	1.04	1.3133	89.1	89.1	0.0180	0.0180	89.15	
\$ PCB-178L	40:02	2199646	1.08	1.0313	77.2	77.2	0.0229	0.0229	77.16	
* PCB-180L	45:06	2764326	1.10		100.0	100.0				
D PCB-170L	46:22	2127224	1.08	0.8362	92.0	92.0	0.0283	0.0283	92.03	
D PCB-189L	49:28	4878909	1.09	1.4414	89.7	89.7	0.3591	0.3591	89.70	
PCB-188	37:01						0.000690	0.000690		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	1715	1.05	1.4276	0.0502	0.0448	0.000671	0.000671		RQ
PCB-184	37:50	342	1.05	1.3672	0.0114	0.009328	0.000701	0.000701		RQM
PCB-176	38:14						0.000777	0.000777		
PCB-186	38:42						0.000650	0.000650		
PCB-178	40:04						0.001072	0.001072		
PCB-175	40:42						0.001007	0.001007		
PCB-187	40:54	2399	1.05	1.1018	0.0965	0.0812	0.000870	0.000870		RQM
PCB-182	41:09						0.001037	0.001037		
PCB-183	41:32	2334	1.05	0.9825	0.1054	0.0886	0.000976	0.000976		RQM
PCB-185 (C183)	41:32	2334	1.05	0.9825	0.1054	0.0886	0.000976	0.000976		RQM
PCB-174	41:50	2391	1.05	0.9642	0.1222	0.0925	0.000994	0.000994		RQM
PCB-177	42:14	246	1.05	0.9773	0.0284	0.009386	0.000981	0.000981		RQ
PCB-181	42:39						0.001008	0.001008		
PCB-171	42:50	355	1.05	0.9336	0.0240	0.0142	0.001027	0.001027		RQ
PCB-173 (C171)	42:50	355	1.05	0.9336	0.0240	0.0142	0.001027	0.001027		RQ
PCB-172	44:30						0.001125	0.001125		
PCB-192	44:45						0.000712	0.000712		
PCB-180	45:09	3067	0.99	1.1676	0.0979	0.0979	0.000821	0.000821		M
PCB-193 (C180)	45:09	3067	0.99	1.1676	0.0979	0.0979	0.000821	0.000821		M
PCB-191	45:30						0.000744	0.000744		
PCB-170	46:24	1957	1.05	1.1865	0.0842	0.0775	0.001041	0.001041		RQM
PCB-190	46:54	621	1.05	1.3322	0.0197	0.0174	0.000720	0.000720		RQ
PCB-189	49:30						0.0217	0.0217		
S Total Octachlorobiphenyls							0.007267	0.007267		
D PCB-202L	42:21	2412913	0.94	0.9818	88.9	88.9	0.0402	0.0402	88.90	
* PCB-194L	51:35	3773695	0.92		100.0	100.0				
D PCB-205L	52:02	4067846	0.90	1.1786	91.5	91.5	0.0461	0.0461	91.46	
PCB-202	42:23						0.004204	0.004204		
PCB-201	43:17						0.004465	0.004465		
PCB-204	43:57						0.004153	0.004153		
PCB-197	44:11						0.003801	0.003801		
PCB-200	44:19						0.004324	0.004324		
PCB-198	47:05						0.005007	0.005007		RQU
PCB-199 (C198)	47:05						0.005007	0.005007		RQU
PCB-196	47:44						0.005578	0.005578		
PCB-203	47:56						0.004687	0.004687		
PCB-195	49:16						0.007267	0.007267		
PCB-194	51:36						0.006169	0.006169		
PCB-205	52:04						0.005521	0.005521		
S Total Nonachlorobiphenyls							0.1540	0.1540		
D PCB-208L	49:00	3235416	0.80	0.9576	89.5	89.5	0.1692	0.1692	89.53	
D PCB-206L	53:47	2555721	0.79	0.6947	97.5	97.5	0.2333	0.2333	97.49	
PCB-208	49:02						0.1355	0.1355		
PCB-207	49:57						0.1280	0.1280		
PCB-206	53:49						0.1540	0.1540		
D PCB-209L	55:24	2682007	0.71	0.6669	106.6	106.6	0.0642	0.0642	107	
DCB Decachlorobiphenyl	55:27	2274	0.74	1.1004	0.0771	0.0771	0.004106	0.004106		M
S Polychlorinated biphenyls, Total					25.2	0.0771	0.0392	0.0392		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
 Lims ID: 140-37232-A-2-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
 Sample Type: Client
 Inject. Date: 16-Jul-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033514-007
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 17-Jul-2024 02:34:15 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 02:34:15

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:39	-2	0.728	4426274	1688141	1961	4902	861	3.12(2.66-3.60)	
202.0766	11:36	11:39	-2	0.728	1420889	539473	924	2310	584		
PCB-3L											
200.0795	13:45	13:48	-2	0.862	4731479	1458741	1961	4902	744	3.21(2.66-3.60)	
202.0766	13:45	13:48	-2	0.862	1472388	451281	924	2310	488		
PCB-1											
188.0393	11:37	11:37	-1	1.001	110642	44008	160	400	275	2.90(2.66-3.60)	
190.0363	11:37	11:37	-1	1.001	38189	14397	91	227	158		
PCB-2											
188.0393	13:35	13:37	-1	0.989	29170	9195	160	400	57	2.50(2.66-3.60)	RQ
190.0363	13:35	13:37	-1	0.989	11659	3533	91	227	39		
Empc Correction					9319	2937	91	227	32		
PCB-3											
188.0393	13:46	13:46	-2	1.001	149135	46908	160	400	293	3.08(2.66-3.60)	
190.0363	13:46	13:46	-2	1.001	48455	15797	91	227	174		
PCB-4L											
234.0406	14:00	14:03	-2	0.878	1573175	495983	678	1695	732	1.59(1.33-1.79)	
236.0376	14:00	14:03	-2	0.878	992046	311511	181	452	1721		
PCB-9L											
234.0406	15:56	15:59	-2		3657581	1043483	678	1695	1539	1.61(1.33-1.79)	
236.0376	15:56	15:59	-2		2266699	642008	181	452	3547		
PCB-8L											
234.0406	16:47	16:52	-2	1.199	1516932	420314	678	1695	620	1.59(1.33-1.79)	
236.0376	16:47	16:52	-2	1.199	952688	260228	181	452	1438		

RQ

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:51	20:07	-1	1.246	2870330	629607	678	1695	929	1.63(1.33-1.79)	
236.0376	19:51	20:07	-1	1.246	1766082	385761	181	452	2131		
PCB-4											
222.0003	14:01	14:01	-1	1.002	20308	6907	132	330	52	1.56(1.33-1.79)	
223.9974	14:01	14:01	-1	1.002	13000	3909	124	310	32		
PCB-10											
222.0003	14:11						132	330			
223.9974	14:11						124	310			
PCB-9											
222.0003	15:57	15:57	-2	1.140	5666	1401	132	330	11	0.94(1.33-1.79)	RQ
223.9974	15:58	15:57	-1	1.141	6002	1375	124	310	11		
	Empc Correction				3632	898	124	310	7		
PCB-7											
222.0003	16:07	16:13	-1	1.152	6751	2237	132	330	17	1.10(1.33-1.79)	RQ
223.9974	16:07	16:13	-2	1.151	6140	1664	124	310	13		
	Empc Correction				4327	1433	124	310	12		
PCB-6											
222.0003	16:22	16:26	-1	1.170	10910	1979	132	330	15	1.42(1.33-1.79)	M
223.9974	16:22	16:26	-2	1.169	7675	1908	124	310	15		M
											M
PCB-5											
222.0003	16:40						132	330			
223.9974	16:40						124	310			
PCB-8											
222.0003	16:48	16:54	-2	1.200	31459	8753	132	330	66	1.56(1.33-1.79)	M
223.9974	16:48	16:54	-2	1.200	20108	5706	124	310	46		M
PCB-14											
222.0003	18:36						132	330			
223.9974	18:36						124	310			
PCB-11											
222.0003	19:15	19:32	-1	0.970	100212	21794	132	330	165	1.87(1.33-1.79)	M
	Empc Correction				83765	20016	132	330	152		
223.9974	19:15	19:32	-1	0.970	53696	12831	124	310	103		
PCB-12											
222.0003	19:35	19:42	-1	0.986	7293	1486	132	330	11	1.92(1.33-1.79)	RQ
	Empc Correction				5910	1212	132	330	9		
223.9974	19:33	19:42	-2	0.985	3789	777	124	310	6		
PCB-13 (C12)											
222.0003	19:35	19:42	-1	0.986	7293	1486	132	330	11	1.92(1.33-1.79)	RQ
	Empc Correction				5910	1212	132	330	9		
223.9974	19:33	19:42	-2	0.985	3789	777	124	310	6		
PCB-15											
222.0003	19:53	20:05	-1	1.001	9019	1942	132	330	15	1.55(1.33-1.79)	
223.9974	19:52	20:05	-1	1.001	5804	1310	124	310	11		
PCB-19L											
268.0016	17:05	17:07	-2	0.841	914739	252110	524	1310	481	1.09(0.88-1.20)	
269.9986	17:05	17:07	-2	0.841	840909	234445	839	2097	279		

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:19	20:20	-1		2034721	503552	524	1310	961		
269.9986	20:19	20:20	-1		1899592	462108	839	2097	551	1.07(0.88-1.20)	
PCB-31L											
268.0016	22:34	22:35	-1		4612616	1037214	1196	2990	867		
269.9986	22:34	22:35	-1		4320703	980044	460	1150	2131	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:52	22:57	-1	1.013	3354879	716626	1196	2990	599		
269.9986	22:52	22:57	-1	1.013	3152727	685022	460	1150	1489	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:52	26:58	0	1.191	3120019	559825	1196	2990	468		
269.9986	26:52	26:58	0	1.191	2974260	542373	460	1150	1179	1.05(0.88-1.20)	
PCB-19											
255.9613	17:07	17:12	-1	1.002	2396	624	22	55	28		
257.9584	17:09	17:12	1	1.004	2429	566	7	17	81	0.99(0.88-1.20)	
PCB-18											
255.9613	18:58	19:13	2	1.110	15722	4497	22	55	204		a
257.9584	18:58	19:13	2	1.110	13617	3795	7	17	542	1.15(0.88-1.20)	a
PCB-30 (C18)											
255.9613	18:58	19:13	2	1.110	15722	4497	22	55	204		a
257.9584	18:58	19:13	2	1.110	13617	3795	7	17	542	1.15(0.88-1.20)	a
PCB-17											
255.9613	19:21	19:35	-2	1.133	6184	1449	22	55	66		RQ
	Empc Correction				5142	1506	22	55	68		
257.9584	19:21	19:35	-2	1.133	4945	1449	7	17	207	1.25(0.88-1.20)	
PCB-27											
255.9613	19:36	19:46	-1	1.147	1249	299	22	55	14		RQM
257.9584	19:36	19:46	-1	1.147	1613	388	7	17	55	0.77(0.88-1.20)	M
	Empc Correction				1200	287	7	17	41		
PCB-24											
255.9613	19:45	19:45	1	1.156	248	78	22	55	4		RQM
257.9584	19:43	19:45	-1	1.154	633	315	7	17	45	0.39(0.88-1.20)	Ma
	Empc Correction				238	75	7	17	11		M
PCB-16											
255.9613	19:50	20:01	-2	1.161	4502	1154	22	55	52		RQM
257.9584	19:50	20:01	-2	1.161	5873	1350	7	17	193	0.77(0.88-1.20)	M
	Empc Correction				4328	1109	7	17	158		
PCB-32											
255.9613	20:21	20:31	-1	1.191	3860	1069	22	55	49		RQM
257.9584	20:23	20:31	1	1.193	4620	899	7	17	128	0.84(0.88-1.20)	M
	Empc Correction				3711	1027	7	17	147		
PCB-34											
255.9613	21:41						81	202			
257.9584	21:41						84	210			

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-23											
255.9613	21:50						81	202			
257.9584	21:50						84	210			
PCB-26											
255.9613	22:02	22:10	-2	1.290	3843	892	81	202	11	0.81(0.88-1.20)	RQ
257.9584	22:03	22:10	-1	1.291	4751	1405	84	210	17		
Empc Correction					3695	857	84	210	10		
PCB-29 (C26)											
255.9613	22:02	22:10	-2	1.290	3843	892	81	202	11	0.81(0.88-1.20)	RQ
257.9584	22:03	22:10	-1	1.291	4751	1405	84	210	17		
Empc Correction					3695	857	84	210	10		
PCB-25											
255.9613	22:16	22:23	-2	0.829	3699	790	81	202	10	1.22(0.88-1.20)	RQ
Empc Correction					3151	641	81	202	8		
257.9584	22:16	22:23	-2	0.829	3030	617	84	210	7		
PCB-31											
255.9613	22:35	22:41	-1	0.841	20702	6038	81	202	75	1.00(0.88-1.20)	
257.9584	22:35	22:41	-1	0.841	20758	4520	84	210	54		
PCB-20											
255.9613	22:53	22:56	-2	0.852	22664	4492	81	202	55	1.13(0.88-1.20)	
257.9584	22:53	22:56	-2	0.852	20109	4959	84	210	59		
PCB-28 (C20)											
255.9613	22:53	22:56	-2	0.852	22664	4492	81	202	55	1.13(0.88-1.20)	
257.9584	22:53	22:56	-2	0.852	20109	4959	84	210	59		
PCB-21											
255.9613	23:08	23:13	3	0.861	19467	3626	81	202	45	1.55(0.88-1.20)	RQM M
Empc Correction					13060	2983	81	202	37		
257.9584	23:08	23:13	3	0.861	12558	2869	84	210	34		
PCB-33 (C21)											
255.9613	23:08	23:13	3	0.861	19467	3626	81	202	45	1.55(0.88-1.20)	RQM M
Empc Correction					13060	2983	81	202	37		
257.9584	23:08	23:13	3	0.861	12558	2869	84	210	34		
PCB-22											
255.9613	23:31	23:39	-1	0.875	9469	1869	81	202	23	1.03(0.88-1.20)	M M
257.9584	23:31	23:39	-2	0.875	9172	1830	84	210	22		
PCB-36											
255.9613	25:05						81	202			
257.9584	25:05						84	210			
PCB-39											
255.9613	25:28						81	202			
257.9584	25:28						84	210			
PCB-38											
255.9613	26:01						81	202			
257.9584	26:01						84	210			
PCB-35											
255.9613	26:28	26:32	-1	0.985	6646	1353	81	202	17	0.91(0.88-1.20)	
257.9584	26:28	26:32	-2	0.985	7287	1317	84	210	16		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37											RQ
255.9613	26:54	26:55	0	1.001	5829	1281	81	202	16		
257.9584	26:54	26:55	0	1.001	6891	1195	84	210	14	0.85(0.88-1.20)	
Empc Correction					5604	1231	84	210	15		
PCB-54L											
301.9626	20:09	20:24	-1	0.817	795046	200597	98	245	2047		
303.9597	20:09	20:24	-1	0.817	1001858	243016	54	135	4500	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:41	24:42	-1		2064728	469134	632	1580	742		
303.9597	24:41	24:42	-1		2567429	575127	701	1752	820	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:36	32:37	-1	0.970	1206534	226559	632	1580	358		
303.9597	32:36	32:37	-1	0.970	1541820	289534	701	1752	413	0.78(0.65-0.89)	
PCB-81L											
301.9626	33:36	33:39	-1	1.361	2118087	400751	632	1580	634		
303.9597	33:36	33:39	-1	1.361	2666813	498036	701	1752	710	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:14	-1	1.384	2298678	405776	632	1580	642		
303.9597	34:09	34:14	-1	1.384	2817862	496192	701	1752	708	0.82(0.65-0.89)	
PCB-54											
289.9224	20:12						5	12			
291.9194	20:12						10	25			
PCB-50											
289.9224	22:24						4	10			
291.9194	22:24						277	692			
PCB-53 (C50)											
289.9224	22:24						4	10			
291.9194	22:24						277	692			
PCB-45											
289.9224	23:08						4	10			
291.9194	23:08						277	692			
PCB-51 (C45)											
289.9224	23:08						4	10			
291.9194	23:08						277	692			
PCB-46											
289.9224	23:23						4	10			
291.9194	23:23						277	692			
PCB-52											RQ
289.9224	24:43	24:45	-1	1.226	15622	4551	4	10	1138		
Empc Correction					13066	2885	4	10	721		
291.9194	24:43	24:45	-1	1.226	16970	3747	277	692	14	0.92(0.65-0.89)	
PCB-43											
289.9224	25:05						4	10			
291.9194	25:05						277	692			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-73 (C43)											
289.9224	25:05						4	10			
291.9194	25:05						277	692			
PCB-49											
289.9224	25:12	25:14	3	1.250	6326	1692	4	10	423		RQ
291.9194	25:11	25:14	2	1.249	9968	3379	277	692	12	0.63(0.65-0.89)	
	Empc Correction				8215	2197	277	692	8		
PCB-69 (C49)											
289.9224	25:12	25:14	3	1.250	6326	1692	4	10	423		RQ
291.9194	25:11	25:14	2	1.249	9968	3379	277	692	12	0.63(0.65-0.89)	
	Empc Correction				8215	2197	277	692	8		
PCB-48											
289.9224	25:32						4	10			
291.9194	25:32						277	692			
PCB-44											
289.9224	25:44	25:46	0	1.277	23410	4080	4	10	1020		
291.9194	25:44	25:46	0	1.277	32018	7094	277	692	26	0.73(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:44	25:46	0	1.277	23410	4080	4	10	1020		
291.9194	25:44	25:46	0	1.277	32018	7094	277	692	26	0.73(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:44	25:46	0	1.277	23410	4080	4	10	1020		
291.9194	25:44	25:46	0	1.277	32018	7094	277	692	26	0.73(0.65-0.89)	
PCB-59											
289.9224	26:06						4	10			
291.9194	26:06						277	692			
PCB-62 (C59)											
289.9224	26:06						4	10			
291.9194	26:06						277	692			
PCB-75 (C59)											
289.9224	26:06						4	10			
291.9194	26:06						277	692			
PCB-42											
289.9224	26:15						4	10			
291.9194	26:15						277	692			
PCB-40											
289.9224	26:45	26:47	0	1.327	4911	1066	4	10	267		M
291.9194	26:45	26:47	-1	1.327	6705	1452	277	692	5	0.73(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:45	26:47	0	1.327	4911	1066	4	10	267		M
291.9194	26:45	26:47	-1	1.327	6705	1452	277	692	5	0.73(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:45	26:47	0	1.327	4911	1066	4	10	267		M
291.9194	26:45	26:47	-1	1.327	6705	1452	277	692	5	0.73(0.65-0.89)	M
PCB-64											
289.9224	26:59						4	10			
291.9194	26:59						277	692			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-72											
289.9224	27:46						4	10			
291.9194	27:46						277	692			
PCB-68											
289.9224	28:04						4	10			
291.9194	28:04						277	692			
PCB-57											
289.9224	28:30						4	10			
291.9194	28:30						277	692			
PCB-58											
289.9224	28:44						4	10			
291.9194	28:44						277	692			
PCB-67											
289.9224	28:53						4	10			
291.9194	28:53						277	692			
PCB-63											
289.9224	29:09						4	10			
291.9194	29:09						277	692			
PCB-61											
289.9224	29:31	29:30	1	0.879	18633	2364	4	10	591		RQ
	Empc Correction				15446	2133	4	10	533		
291.9194	29:30	29:30	0	0.878	20061	2771	277	692	10	0.93(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:31	29:30	1	0.879	18633	2364	4	10	591		RQ
	Empc Correction				15446	2133	4	10	533		
291.9194	29:30	29:30	0	0.878	20061	2771	277	692	10	0.93(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:31	29:30	1	0.879	18633	2364	4	10	591		RQ
	Empc Correction				15446	2133	4	10	533		
291.9194	29:30	29:30	0	0.878	20061	2771	277	692	10	0.93(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:31	29:30	1	0.879	18633	2364	4	10	591		RQ
	Empc Correction				15446	2133	4	10	533		
291.9194	29:30	29:30	0	0.878	20061	2771	277	692	10	0.93(0.65-0.89)	
PCB-66											
289.9224	29:46	29:49	-3	0.886	7813	1293	4	10	323		M
291.9194	29:48	29:49	-1	0.887	10890	2231	277	692	8	0.72(0.65-0.89)	M
PCB-55											
289.9224	29:57						4	10			
291.9194	29:57						277	692			
PCB-56											
289.9224	30:30						4	10			
291.9194	30:30						277	692			
PCB-60											
289.9224	30:43						4	10			
291.9194	30:43						277	692			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-80											
289.9224	31:06						4	10			
291.9194	31:06						277	692			
PCB-79											
289.9224	32:38						4	10			
291.9194	32:38						277	692			
PCB-78											
289.9224	33:11						4	10			
291.9194	33:11						277	692			
PCB-81											
289.9224	33:37						4	10			
291.9194	33:37						277	692			
PCB-77											
289.9224	34:10	34:18	-2	1.000	7871	1577	4	10	394		RQ
291.9194	34:12	34:18	-1	1.001	13313	2293	277	692	8	0.59(0.65-0.89)	
	Empc Correction				10222	2048	277	692	7		
PCB-104L											
337.9207	25:37	25:38	-1	0.813	1953888	437479	124	310	3528		
339.9178	25:37	25:38	-1	0.813	1214191	267692	74	185	3617	1.61(1.32-1.78)	
PCB-95L											
337.9207	28:36	28:36	-1	1.116	803258	170791	124	310	1377		
339.9178	28:36	28:36	-1	1.116	510438	109015	74	185	1473	1.57(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	-1		1942108	396079	124	310	3194		
339.9178	31:31	31:31	-1		1164630	241106	74	185	3258	1.67(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	-1	1.085	1959244	409784	124	310	3305		
339.9178	34:11	34:11	-1	1.085	1226471	246007	74	185	3324	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	2819562	550356	2385	5962	231		
339.9178	36:09	36:09	0	1.147	1780954	355796	2153	5382	165	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:29	-1	1.157	3013712	559705	2385	5962	235		
339.9178	36:28	36:29	-1	1.157	1884432	347900	2153	5382	162	1.60(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	-1	1.174	3022567	582690	2385	5962	244		
339.9178	36:59	37:00	-1	1.174	1864937	351841	2153	5382	163	1.62(1.32-1.78)	
PCB-105L											
337.9207	37:39	37:40	-1	1.195	2986074	563509	2385	5962	236		
339.9178	37:39	37:40	-1	1.195	1854346	360296	2153	5382	167	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3416906	646132	2385	5962	271		
339.9178	39:07	39:07	0		2108793	400104	2153	5382	186	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126L											
337.9207	40:44	40:45	-1	1.293	2881355	525870	2385	5962	220		
339.9178	40:44	40:45	-1	1.293	1786714	330076	2153	5382	153	1.61(1.32-1.78)	
PCB-104											
325.8804	25:41						45	112			
327.8775	25:41						7	17			
PCB-96											
325.8804	26:03	26:04	0	1.017	1225	240	45	112	5		RQM
	Empc Correction				119	46	45	112	1		M
327.8775	26:02	26:04	-1	1.016	77	30	7	17	4	15.91(1.32-1.78)	
PCB-103											
325.8804	27:59						45	112			
327.8775	27:59						7	17			
PCB-94											
325.8804	28:13						45	112			
327.8775	28:13						7	17			
PCB-95											
325.8804	28:38	28:37	0	1.118	8170	1644	45	112	37		RQM
	Empc Correction				5455	1850	45	112	41		M
327.8775	28:37	28:37	-1	1.117	3520	1194	7	17	171	2.32(1.32-1.78)	
PCB-93											
325.8804	28:48						45	112			
327.8775	28:48						7	17			
PCB-100 (C93)											
325.8804	28:48						45	112			
327.8775	28:48						7	17			
PCB-98											
325.8804	29:01						45	112			
327.8775	29:01						7	17			
PCB-102 (C98)											
325.8804	29:01						45	112			
327.8775	29:01						7	17			
PCB-88											
325.8804	29:31	29:31	2	1.152	2325	827	45	112	18		RQ
	Empc Correction				354	147	45	112	3		
327.8775	29:29	29:31	0	1.151	229	95	7	17	14	10.15(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:31	29:31	2	1.152	2325	827	45	112	18		RQ
	Empc Correction				354	147	45	112	3		
327.8775	29:29	29:31	0	1.151	229	95	7	17	14	10.15(1.32-1.78)	
PCB-84											
325.8804	29:45	29:47	1	1.161	2354	668	45	112	15		M
327.8775	29:43	29:47	-1	1.160	1750	567	7	17	81	1.35(1.32-1.78)	M
PCB-89											
325.8804	30:13						45	112			
327.8775	30:13						7	17			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-121											
325.8804	30:38						45	112			
327.8775	30:38						7	17			
PCB-92											
325.8804	30:58	30:59	-1	0.857	2250	543	45	112	12		RQM
	Empc Correction				1807	607	45	112	13		M
327.8775	30:55	30:59	-3	0.855	1166	392	7	17	56	1.93(1.32-1.78)	M
PCB-90											
325.8804	31:32	31:33	1	1.231	15398	3023	45	112	67		RQ
	Empc Correction				10888	1966	45	112	44		
327.8775	31:32	31:33	1	1.231	7025	1269	7	17	181	2.19(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:32	31:33	1	1.231	15398	3023	45	112	67		RQ
	Empc Correction				10888	1966	45	112	44		
327.8775	31:32	31:33	1	1.231	7025	1269	7	17	181	2.19(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:32	31:33	1	1.231	15398	3023	45	112	67		RQ
	Empc Correction				10888	1966	45	112	44		
327.8775	31:32	31:33	1	1.231	7025	1269	7	17	181	2.19(1.32-1.78)	
PCB-83											
325.8804	32:05	32:10	-2	1.252	7351	1259	45	112	28		RQM
	Empc Correction				4846	911	45	112	20		
327.8775	32:05	32:10	-2	1.252	3127	588	7	17	84	2.35(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:05	32:10	-2	1.252	7351	1259	45	112	28		RQM
	Empc Correction				4846	911	45	112	20		
327.8775	32:05	32:10	-2	1.252	3127	588	7	17	84	2.35(1.32-1.78)	M
PCB-112											
325.8804	32:16						45	112			
327.8775	32:16						7	17			
PCB-86											
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		RQM
	Empc Correction				9895	1709	45	112	38		M
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		RQM
	Empc Correction				9895	1709	45	112	38		M
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		RQM
	Empc Correction				9895	1709	45	112	38		M
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		RQM
	Empc Correction				9895	1709	45	112	38		M
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											RQM
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		M
	Empc Correction				9895	1709	45	112	38		
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:38	32:45	2	1.274	13696	1428	45	112	32		M
	Empc Correction				9895	1709	45	112	38		
327.8775	32:37	32:45	1	1.273	6384	1103	7	17	158	2.15(1.32-1.78)	M
PCB-85											RQ
325.8804	33:19	33:24	0	1.301	4409	840	45	112	19		
	Empc Correction				2996	973	45	112	22		
327.8775	33:21	33:24	2	1.302	1933	628	7	17	90	2.28(1.32-1.78)	
PCB-116 (C85)											RQ
325.8804	33:19	33:24	0	1.301	4409	840	45	112	19		
	Empc Correction				2996	973	45	112	22		
327.8775	33:21	33:24	2	1.302	1933	628	7	17	90	2.28(1.32-1.78)	
PCB-117 (C85)											RQ
325.8804	33:19	33:24	0	1.301	4409	840	45	112	19		
	Empc Correction				2996	973	45	112	22		
327.8775	33:21	33:24	2	1.302	1933	628	7	17	90	2.28(1.32-1.78)	
PCB-110											
325.8804	33:31	33:32	-2	1.308	13444	2876	45	112	64		
327.8775	33:32	33:32	-1	1.309	8140	1848	7	17	264	1.65(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:31	33:32	-2	1.308	13444	2876	45	112	64		
327.8775	33:32	33:32	-1	1.309	8140	1848	7	17	264	1.65(1.32-1.78)	
PCB-82											
325.8804	33:52	33:53	1	1.322	2411	513	45	112	11		
327.8775	33:53	33:53	3	1.323	1480	264	7	17	38	1.63(1.32-1.78)	
PCB-111											
325.8804	34:14						45	112			
327.8775	34:14						7	17			
PCB-120											
325.8804	34:42						45	112			
327.8775	34:42						7	17			
PCB-108											
325.8804	35:51						115	287			
327.8775	35:51						136	340			
PCB-124 (C108)											
325.8804	35:51						115	287			
327.8775	35:51						136	340			
PCB-107											
325.8804	36:06						115	287			
327.8775	36:06						136	340			
PCB-123											
325.8804	36:10						115	287			
327.8775	36:10						136	340			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-106											
325.8804	36:17						115	287			
327.8775	36:17						136	340			
PCB-118											
325.8804	36:29	36:31	-1	1.001	18163	4097	115	287	36		M
327.8775	36:30	36:31	0	1.001	12395	2353	136	340	17	1.47(1.32-1.78)	M
PCB-122											
325.8804	36:51						115	287			
327.8775	36:51						136	340			
PCB-114											
325.8804	37:01						115	287			
327.8775	37:01						136	340			
PCB-105											
325.8804	37:40	37:40	-1	1.000	10410	2434	115	287	21		RQM
	Empc Correction				6934	1263	115	287	11		
327.8775	37:39	37:40	-2	1.000	4474	815	136	340	6	2.33(1.32-1.78)	M
PCB-127											
325.8804	39:09	39:08	0	1.040	4177	813	115	287	7		M
327.8775	39:08	39:08	0	1.039	2439	668	136	340	5	1.71(1.32-1.78)	M
PCB-126											
325.8804	40:46						115	287			
327.8775	40:46						136	340			
PCB-155L											
371.8817	31:15	31:15	-1	0.790	1576813	325763	55	137	5923		
373.8788	31:15	31:15	-1	0.790	1205552	249411	69	172	3615	1.31(1.05-1.43)	
PCB-153L											
371.8817	38:19	38:19	-1	0.900	1037770	204465	859	2147	238		
373.8788	38:19	38:19	-1	0.900	819950	157971	863	2157	183	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:34	39:36	-1		2081933	413752	859	2147	482		
373.8788	39:35	39:36	0		1632129	312843	863	2157	363	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:34	-1	1.076	2306343	438651	859	2147	511		
373.8788	42:34	42:34	-1	1.076	1803319	350388	863	2157	406	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:45	43:43	1	1.106	4719979	599664	859	2147	698		
373.8788	43:45	43:43	1	1.106	3683457	472149	863	2157	547	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:45	43:43	1	1.106	4719979	599664	859	2147	698		
373.8788	43:45	43:43	1	1.106	3683457	472149	863	2157	547	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:57	0	1.187	2369959	424485	859	2147	494		
373.8788	46:57	46:57	0	1.187	1884580	340893	863	2157	395	1.26(1.05-1.43)	
PCB-155											
359.8415	31:19						3	7			
361.8385	31:19						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-152											
359.8415	31:31						3	7			
361.8385	31:31						3	7			
PCB-150											
359.8415	31:40						3	7			
361.8385	31:40						3	7			
PCB-136											
359.8415	32:06						3	7			
361.8385	32:06						3	7			
PCB-145											
359.8415	32:20						3	7			
361.8385	32:20						3	7			
PCB-148											
359.8415	33:50						3	7			
361.8385	33:50						3	7			
PCB-135											
359.8415	34:31	34:26	5	1.104	1671	270	3	7	90		RQM
361.8385	34:28	34:26	3	1.103	1856	359	3	7	120	0.90(1.05-1.43)	M
Empc Correction					1347	217	3	7	72		
PCB-151 (C135)											
359.8415	34:31	34:26	5	1.104	1671	270	3	7	90		RQM
361.8385	34:28	34:26	3	1.103	1856	359	3	7	120	0.90(1.05-1.43)	M
Empc Correction					1347	217	3	7	72		
PCB-154											
359.8415	34:40						3	7			
361.8385	34:40						3	7			
PCB-144											
359.8415	35:00	35:00	0	1.120	109	55	3	7	18		RQ
361.8385	35:01	35:00	1	1.120	305	90	3	7	30	0.36(1.05-1.43)	
Empc Correction					87	44	3	7	15		
PCB-147											
359.8415	35:21	35:19	-1	1.131	10674	1809	11	27	164		
361.8385	35:21	35:19	0	1.131	9324	1659	4	10	415	1.14(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:21	35:19	-1	1.131	10674	1809	11	27	164		
361.8385	35:21	35:19	0	1.131	9324	1659	4	10	415	1.14(1.05-1.43)	
PCB-134											
359.8415	35:40						11	27			
361.8385	35:40						4	10			
PCB-143 (C134)											
359.8415	35:40						11	27			
361.8385	35:40						4	10			
PCB-139											
359.8415	35:57						11	27			
361.8385	35:57						4	10			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-140 (C139)											
359.8415	35:57						11	27			
361.8385	35:57						4	10			
PCB-131											
359.8415	36:10						11	27			
361.8385	36:10						4	10			
PCB-142											
359.8415	36:18						11	27			
361.8385	36:18						4	10			
PCB-132											
359.8415	36:36	36:39	-2	1.171	6597	1354	11	27	123		RQ
	Empc Correction				5644	1326	11	27	121		
361.8385	36:37	36:39	-1	1.172	4552	1070	4	10	268	1.45(1.05-1.43)	
PCB-133											
359.8415	37:07	37:07	0	1.188	369	171	11	27	16		RQ
361.8385	37:08	37:07	1	1.188	374	171	4	10	43	0.99(1.05-1.43)	
	Empc Correction				297	137	4	10	34		
PCB-165											
359.8415	37:29						11	27			
361.8385	37:29						4	10			
PCB-146											
359.8415	37:43	37:44	-2	0.886	3576	906	11	27	82		
361.8385	37:44	37:44	-1	0.886	3170	911	4	10	228	1.13(1.05-1.43)	
PCB-161											
359.8415	37:52						11	27			
361.8385	37:52						4	10			
PCB-153											
359.8415	38:21	38:22	-2	0.901	24784	5096	11	27	463		RQ
	Empc Correction				20675	4123	11	27	375		
361.8385	38:20	38:22	-3	0.901	16674	3325	4	10	831	1.49(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:21	38:22	-2	0.901	24784	5096	11	27	463		RQ
	Empc Correction				20675	4123	11	27	375		
361.8385	38:20	38:22	-3	0.901	16674	3325	4	10	831	1.49(1.05-1.43)	
PCB-141											
359.8415	38:34	38:33	0	0.906	5061	1420	11	27	129		M
361.8385	38:32	38:33	-2	0.905	4426	788	4	10	197	1.14(1.05-1.43)	M
PCB-130											
359.8415	38:58	38:58	-1	0.915	1027	376	11	27	34		RQ
361.8385	38:58	38:58	-1	0.915	1424	523	4	10	131	0.72(1.05-1.43)	
	Empc Correction				828	303	4	10	76		
PCB-137											
359.8415	39:10	39:10	-1	0.920	2504	815	11	27	74		RQM
	Empc Correction				2015	704	11	27	64		
361.8385	39:12	39:10	1	0.921	1625	568	4	10	142	1.54(1.05-1.43)	M
PCB-164											
359.8415	39:19	39:18	0	0.924	1684	330	11	27	30		RQM
361.8385	39:15	39:18	-4	0.922	2149	363	4	10	91	0.78(1.05-1.43)	M
	Empc Correction				1358	266	4	10	67		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-129											
359.8415	39:37	39:38	-1	0.931	28701	5708	11	27	519	1.08(1.05-1.43)	
361.8385	39:36	39:38	-2	0.930	26579	5223	4	10	1306		
PCB-138 (C129)											
359.8415	39:37	39:38	-1	0.931	28701	5708	11	27	519	1.08(1.05-1.43)	
361.8385	39:36	39:38	-2	0.930	26579	5223	4	10	1306		
PCB-160 (C129)											
359.8415	39:37	39:38	-1	0.931	28701	5708	11	27	519	1.08(1.05-1.43)	
361.8385	39:36	39:38	-2	0.930	26579	5223	4	10	1306		
PCB-163 (C129)											
359.8415	39:37	39:38	-1	0.931	28701	5708	11	27	519	1.08(1.05-1.43)	
361.8385	39:36	39:38	-2	0.930	26579	5223	4	10	1306		
PCB-158											
359.8415	40:00	39:59	0	0.940	4790	1054	11	27	96	1.74(1.05-1.43)	
Empc Correction					3410	626	11	27	57		
361.8385	40:00	39:59	0	0.940	2750	505	4	10	126		
PCB-128											
359.8415	40:53	40:56	3	0.960	7073	1373	11	27	125	1.53(1.05-1.43)	RQM M
Empc Correction					5720	1190	11	27	108		
361.8385	40:52	40:56	1	0.960	4613	960	4	10	240		M
PCB-166 (C128)											
359.8415	40:53	40:56	3	0.960	7073	1373	11	27	125	1.53(1.05-1.43)	RQM M
Empc Correction					5720	1190	11	27	108		
361.8385	40:52	40:56	1	0.960	4613	960	4	10	240		M
PCB-159											
359.8415	41:49						11	27			
361.8385	41:49						4	10			
PCB-162											
359.8415	42:07						11	27			
361.8385	42:07						4	10			
PCB-167											
359.8415	42:36						11	27			
361.8385	42:36						4	10			
PCB-156											
359.8415	43:45	43:47	-1	1.000	1553	337	11	27	31	0.53(1.05-1.43)	RQ
361.8385	43:47	43:47	1	1.001	2914	543	4	10	136		
Empc Correction					1252	271	4	10	68		
PCB-157 (C156)											
359.8415	43:45	43:47	-1	1.000	1553	337	11	27	31	0.53(1.05-1.43)	RQ
361.8385	43:47	43:47	1	1.001	2914	543	4	10	136		
Empc Correction					1252	271	4	10	68		
PCB-169											
359.8415	47:00	46:59	0	1.001	610	268	11	27	24	1.38(1.05-1.43)	
361.8385	47:02	46:59	3	1.002	442	141	4	10	35		
PCB-188L											
405.8428	36:58	36:58	0	0.820	1646355	325233	16	40	20327	1.04(0.89-1.21)	
407.8398	36:58	36:58	0	0.820	1590029	313088	35	87	8945		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:02	40:01	0	0.888	1143295	216362	16	40	13523		
407.8398	40:02	40:01	0	0.888	1056351	200087	35	87	5717	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	0		1445167	286156	16	40	17885		
407.8398	45:06	45:07	0		1319159	250732	35	87	7164	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:22	46:22	-1	1.028	1103384	209490	16	40	13093		
407.8398	46:23	46:22	0	1.028	1023840	195380	35	87	5582	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	0	1.097	2546989	480674	923	2307	521		
407.8398	49:28	49:27	0	1.097	2331920	437164	562	1405	778	1.09(0.89-1.21)	
PCB-188											
393.8025	37:01						1	2			
395.7995	37:01						1	2			
PCB-179											
393.8025	37:22	37:24	0	1.011	1086	372	1	2	372		RQ
	Empc Correction				878	247	1	2	247		
395.7995	37:21	37:24	-1	1.010	837	236	1	2	236	1.30(0.89-1.21)	
PCB-184											
393.8025	37:50	37:51	-1	1.023	251	80	1	2	80		RQM
	Empc Correction				175	41	1	2	41		
395.7995	37:53	37:51	2	1.025	167	40	1	2	40	1.50(0.89-1.21)	M
PCB-176											
393.8025	38:14						1	2			
395.7995	38:14						1	2			
PCB-186											
393.8025	38:42						1	2			
395.7995	38:42						1	2			
PCB-178											
393.8025	40:04						1	2			
395.7995	40:04						1	2			
PCB-175											
393.8025	40:43						1	2			
395.7995	40:43						1	2			
PCB-187											
393.8025	40:54	40:54	-4	1.106	1229	221	1	2	221		RQM
395.7995	40:58	40:54	0	1.108	1621	708	1	2	708	0.76(0.89-1.21)	M
	Empc Correction				1170	210	1	2	210		
PCB-182											
393.8025	41:09						1	2			
395.7995	41:09						1	2			
PCB-183											
393.8025	41:32	41:38	-2	1.123	1638	400	1	2	400		RQM
	Empc Correction				1195	382	1	2	382		
395.7995	41:32	41:38	-2	1.123	1139	364	1	2	364	1.44(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											RQM
393.8025	41:32	41:38	-2	1.123	1638	400	1	2	400		
	Empc Correction				1195	382	1	2	382		
395.7995	41:32	41:38	-2	1.123	1139	364	1	2	364	1.44(0.89-1.21)	M
PCB-174											RQM
393.8025	41:50	41:49	0	1.132	1225	341	1	2	341		M
395.7995	41:50	41:49	0	1.132	1936	618	1	2	618	0.63(0.89-1.21)	M
	Empc Correction				1166	324	1	2	324		
PCB-177											RQ
393.8025	42:14	42:15	-2	1.142	126	65	1	2	65		
395.7995	42:16	42:15	0	1.143	619	207	1	2	207	0.20(0.89-1.21)	
	Empc Correction				120	61	1	2	61		
PCB-181											
393.8025	42:38						1	2			
395.7995	42:38						1	2			
PCB-171											RQ
393.8025	42:50	42:55	-2	1.159	182	54	1	2	54		
395.7995	42:53	42:55	1	1.160	419	231	1	2	231	0.43(0.89-1.21)	
	Empc Correction				173	51	1	2	51		
PCB-173 (C171)											RQ
393.8025	42:50	42:55	-2	1.159	182	54	1	2	54		
395.7995	42:53	42:55	1	1.160	419	231	1	2	231	0.43(0.89-1.21)	
	Empc Correction				173	51	1	2	51		
PCB-172											
393.8025	44:31						1	2			
395.7995	44:31						1	2			
PCB-192											
393.8025	44:45						1	2			
395.7995	44:45						1	2			
PCB-180											M
393.8025	45:09	45:09	3	0.913	1526	613	1	2	613		M
395.7995	45:08	45:09	2	0.912	1541	598	1	2	598	0.99(0.89-1.21)	M
PCB-193 (C180)											M
393.8025	45:09	45:09	3	0.913	1526	613	1	2	613		M
395.7995	45:08	45:09	2	0.912	1541	598	1	2	598	0.99(0.89-1.21)	M
PCB-191											
393.8025	45:29						1	2			
395.7995	45:29						1	2			
PCB-170											RQM
393.8025	46:24	46:24	-1	0.938	1171	170	1	2	170		M
	Empc Correction				1002	269	1	2	269		
395.7995	46:23	46:24	-2	0.938	955	257	1	2	257	1.23(0.89-1.21)	
PCB-190											RQ
393.8025	46:54	46:56	0	0.948	401	116	1	2	116		
	Empc Correction				318	102	1	2	102		
395.7995	46:52	46:56	-3	0.947	303	98	1	2	98	1.32(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-189											
393.8025	49:31						35	87			
395.7995	49:31						42	105			
PCB-202L											
439.8038	42:21	42:19	0	0.821	1169720	221108	63	157	3510		
441.8008	42:20	42:19	0	0.821	1243193	238156	22	55	10825	0.94(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:35	0		1806293	347747	90	225	3864		
441.8008	51:35	51:35	0		1967402	369316	66	165	5596	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:02	0	1.009	1924700	347465	90	225	3861		
441.8008	52:02	52:02	0	1.009	2143146	401899	66	165	6089	0.90(0.76-1.02)	
PCB-202											
427.7635	42:22						6	15			
429.7606	42:22						2	5			
PCB-201											
427.7635	43:17						6	15			
429.7606	43:17						2	5			
PCB-204											
427.7635	43:57						6	15			
429.7606	43:57						2	5			
PCB-197											
427.7635	44:10						6	15			
429.7606	44:10						2	5			
PCB-200											
427.7635	44:18						6	15			
429.7606	44:18						2	5			
PCB-198											
427.7635	47:04						6	15			RQU
429.7606	47:04						2	5			
PCB-199 (C198)											
427.7635	47:04						6	15			RQU
429.7606	47:04						2	5			
PCB-196											
427.7635	47:45						6	15			
429.7606	47:45						2	5			
PCB-203											
427.7635	47:56						6	15			
429.7606	47:56						2	5			
PCB-195											
427.7635	49:16						12	30			
429.7606	49:16						6	15			
PCB-194											
427.7635	51:36						12	30			
429.7606	51:36						6	15			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205											
427.7635	52:04						12	30			
429.7606	52:04						6	15			
PCB-208L											
473.7648	49:00	48:59	0	0.950	1439390	275339	236	590	1167		
475.7619	49:00	48:59	0	0.950	1796026	355528	229	572	1553	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	0	1.043	1129277	211107	236	590	895		
475.7619	53:47	53:47	0	1.043	1426444	261888	229	572	1144	0.79(0.65-0.89)	
PCB-208											
461.7246	49:01						125	312			
463.7216	49:01						264	660			
PCB-207											
461.7246	49:57						125	312			
463.7216	49:57						264	660			
PCB-206											
461.7246	53:50						125	312			
463.7216	53:50						264	660			
PCB-209L											
507.7258	55:24	55:23	0	1.074	1117834	206185	93	232	2217		
509.7229	55:24	55:23	0	1.074	1564173	280709	30	75	9357	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:27	55:26	1	1.001	966	316	6	15	53		M
497.6826	55:27	55:26	1	1.001	1308	342	3	7	114	0.74(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

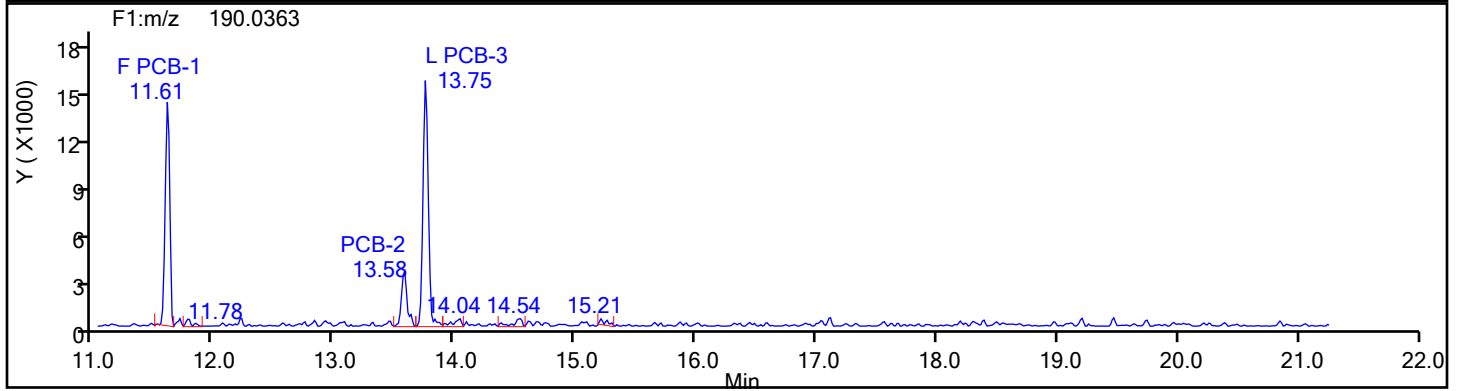
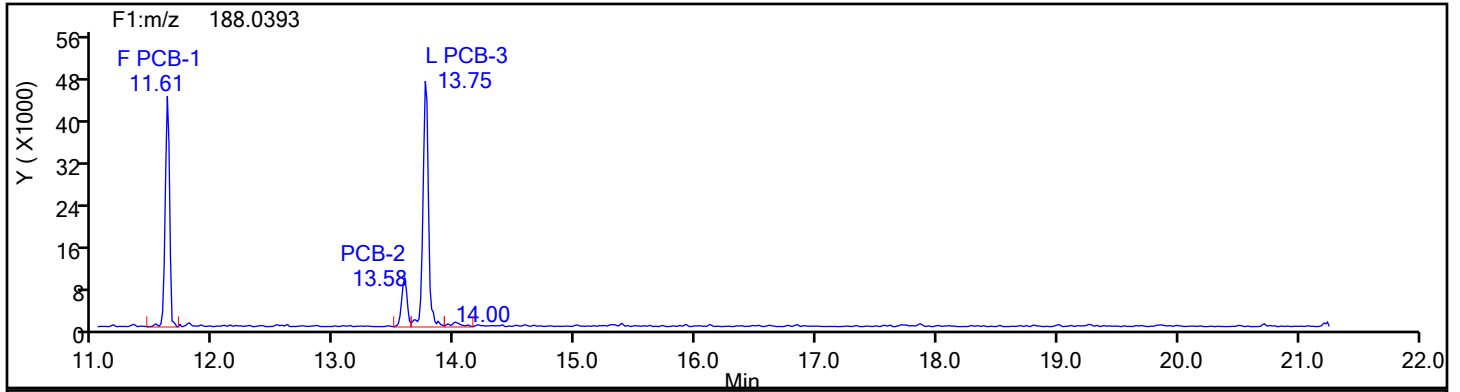
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U - Marked Undetected

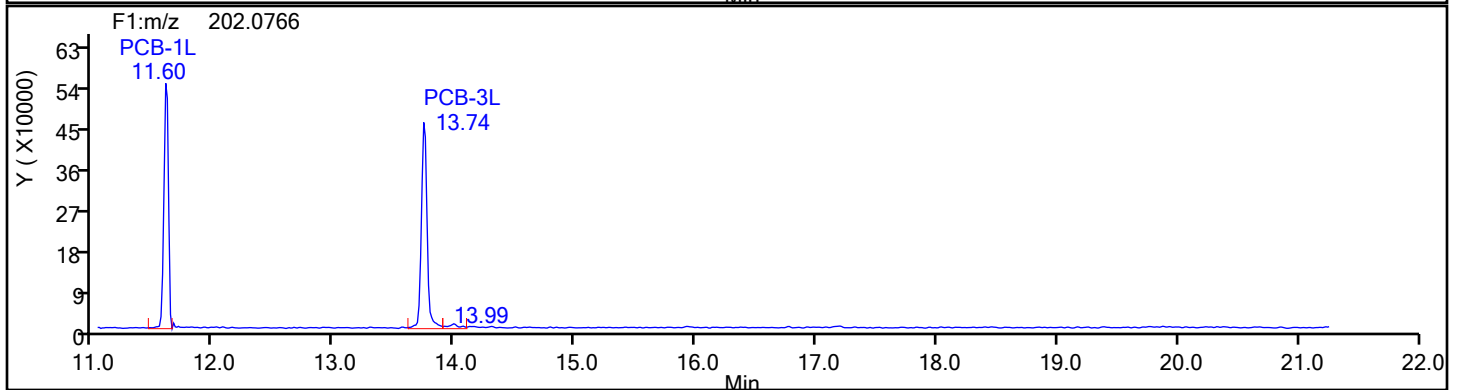
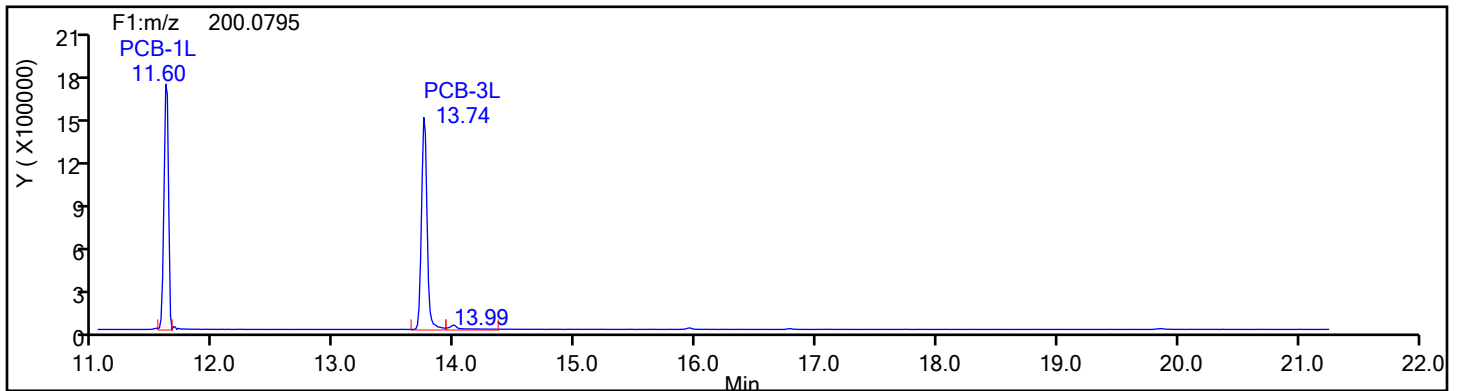
a - User Assigned ID

Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

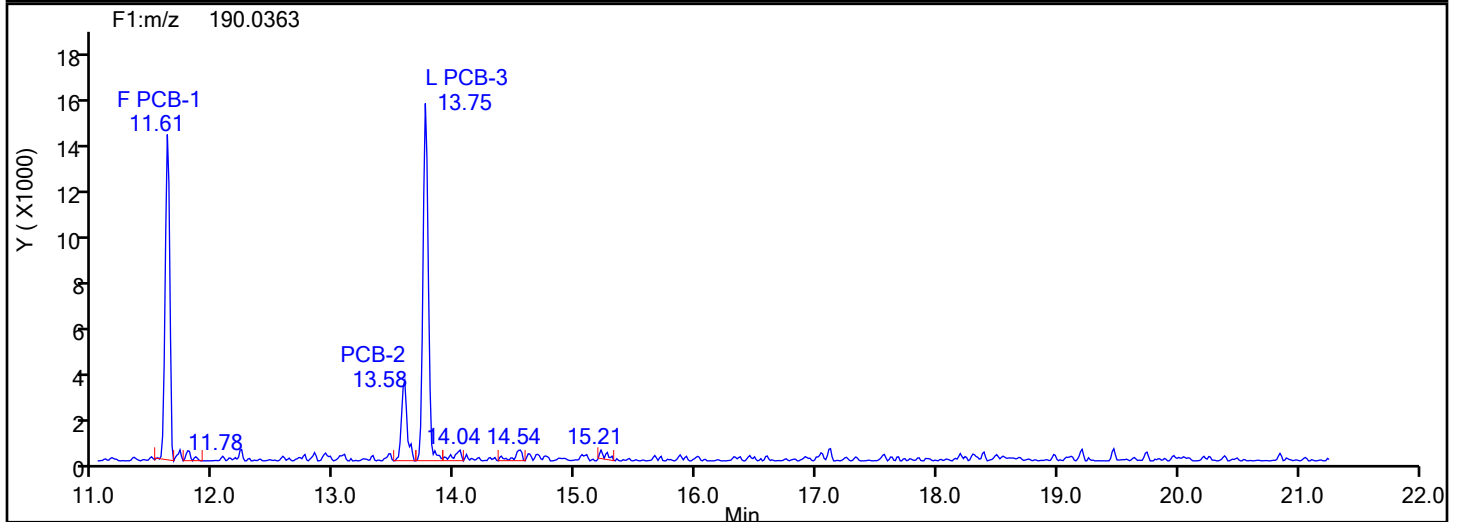
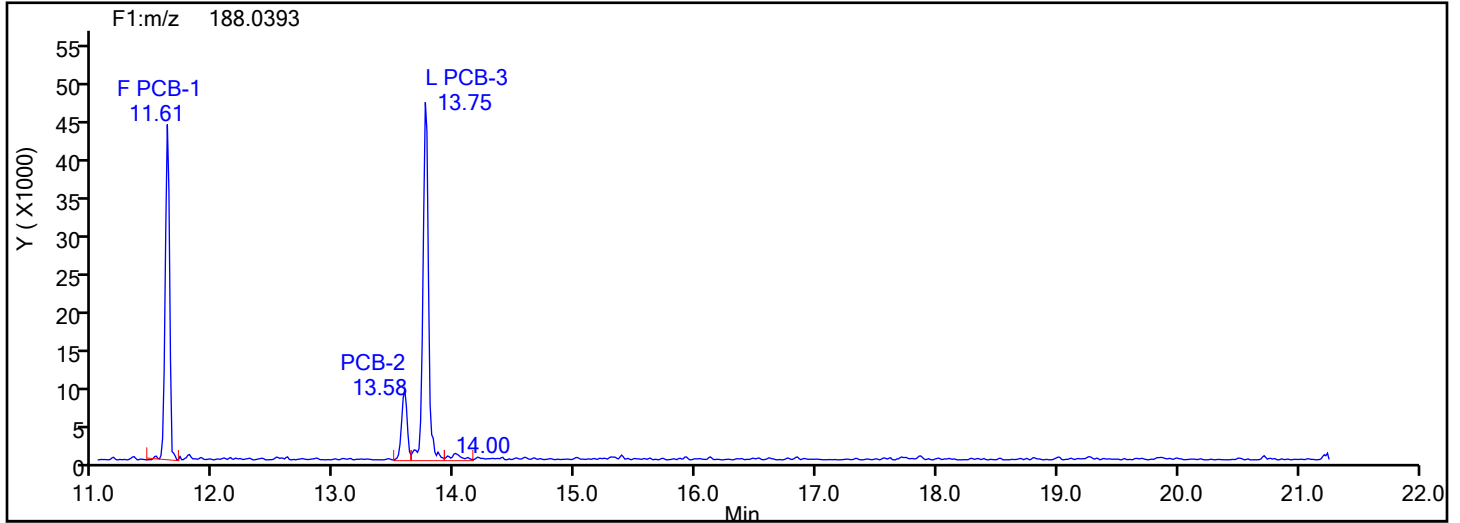


MoPCB F1 Standards

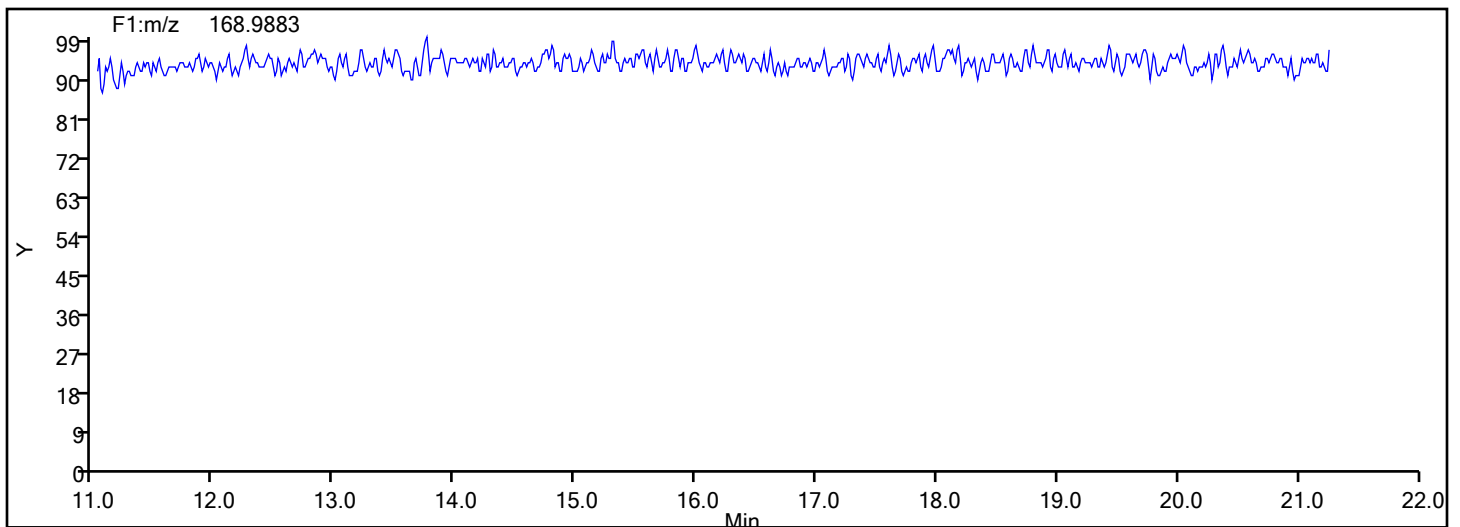


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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

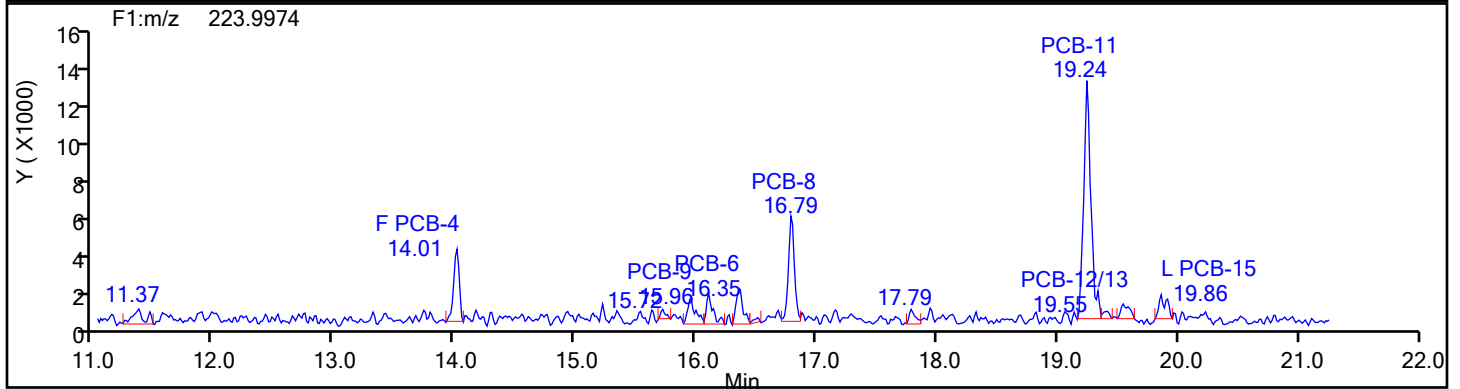
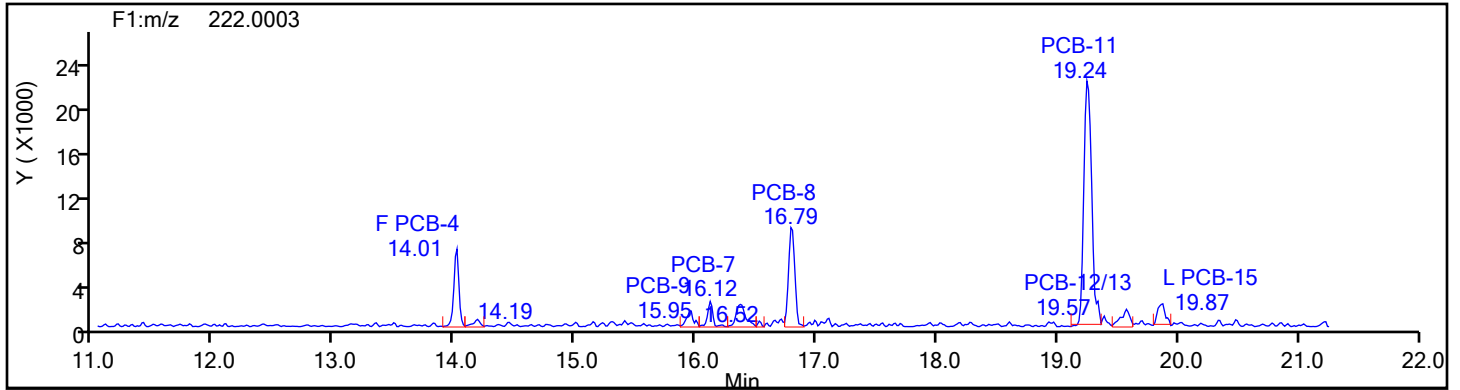


MoPCB F1 Lock Mass

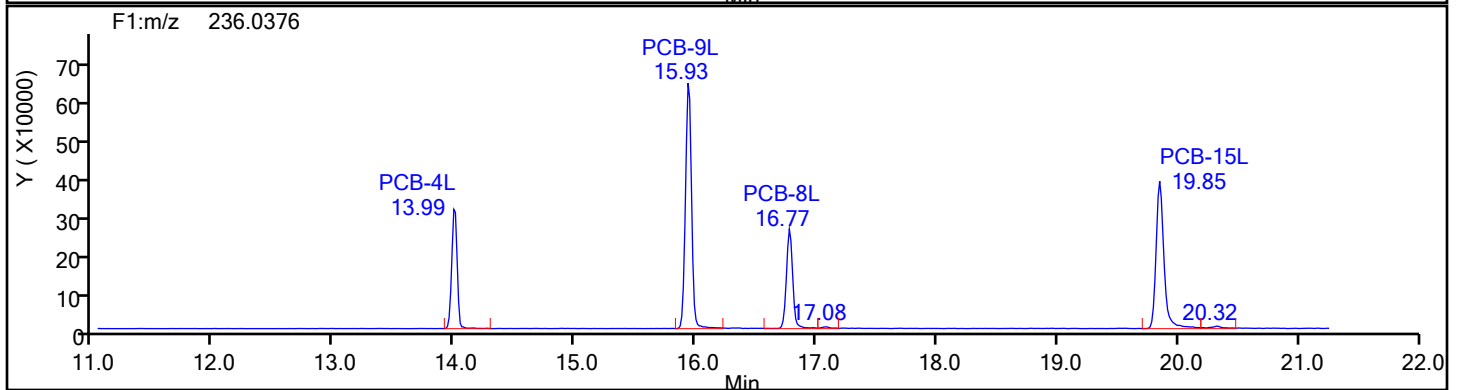
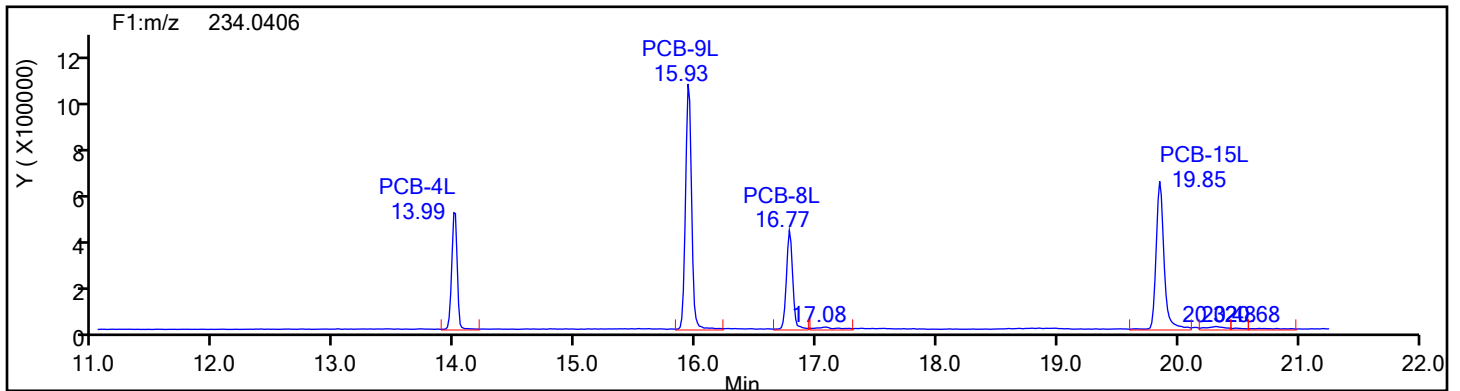


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

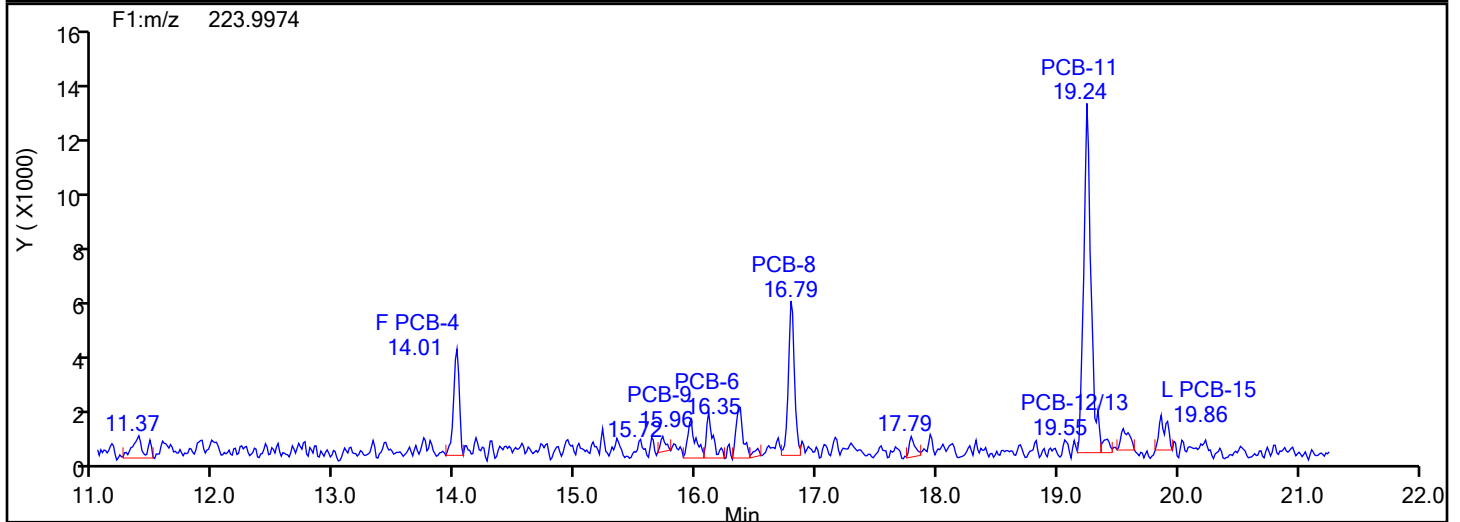
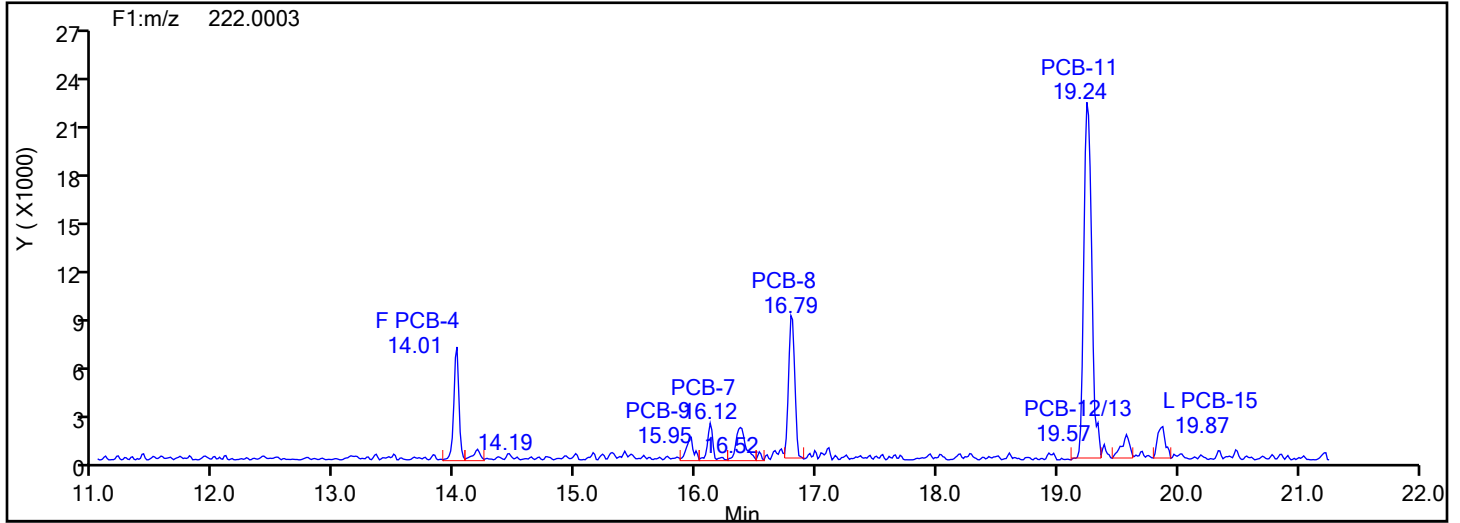


DiPCB F1 Standards

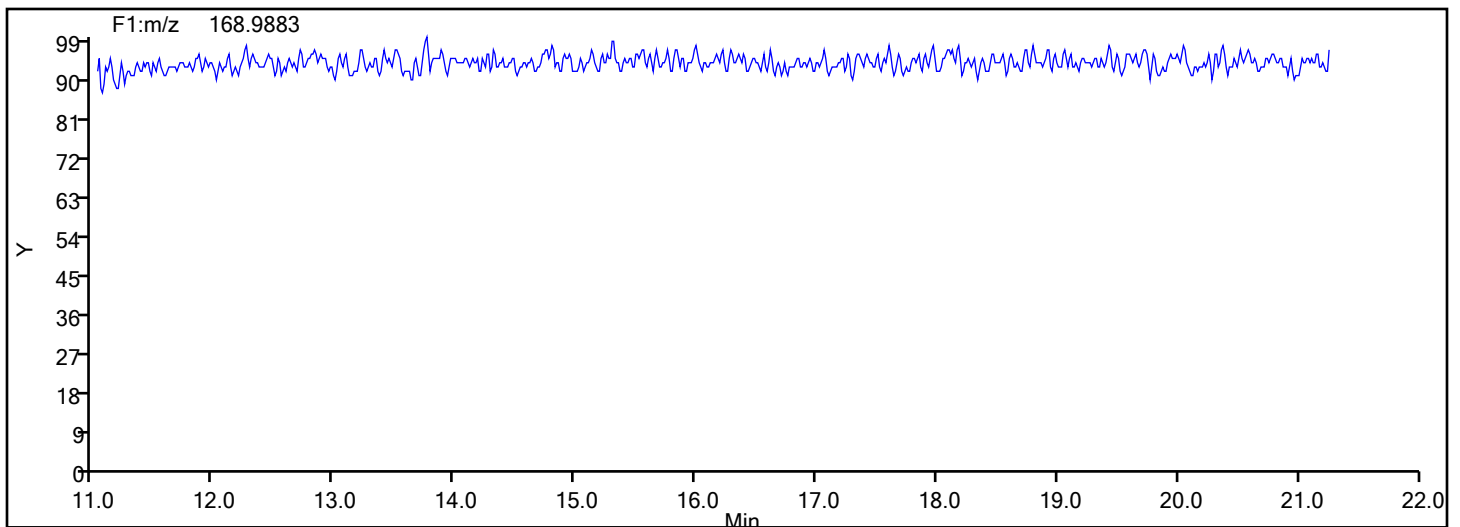


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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



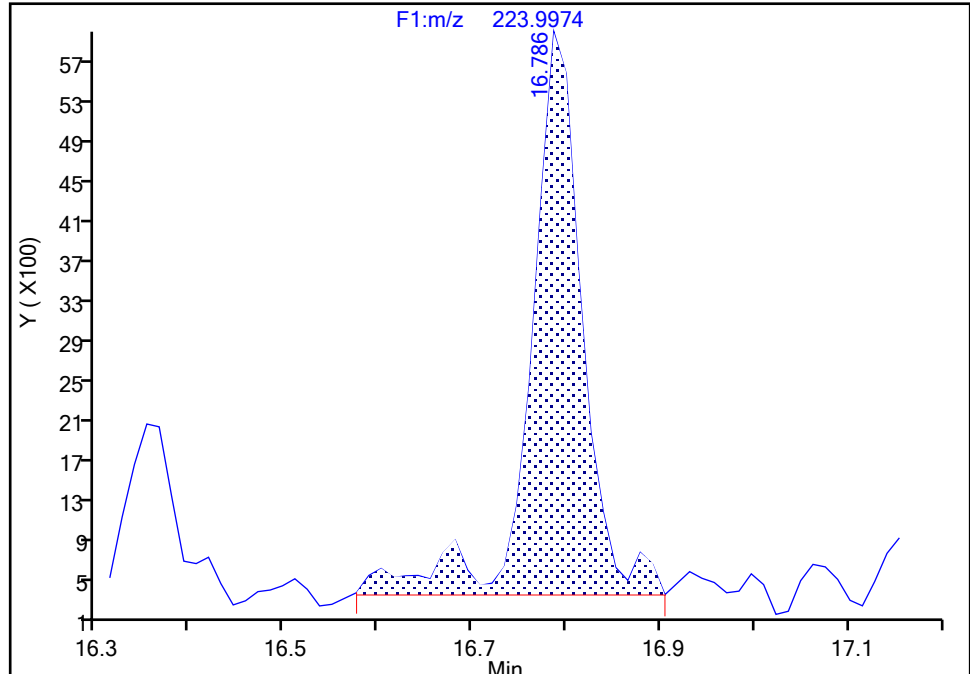
Eurofins Knoxville

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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7
Signal: 2

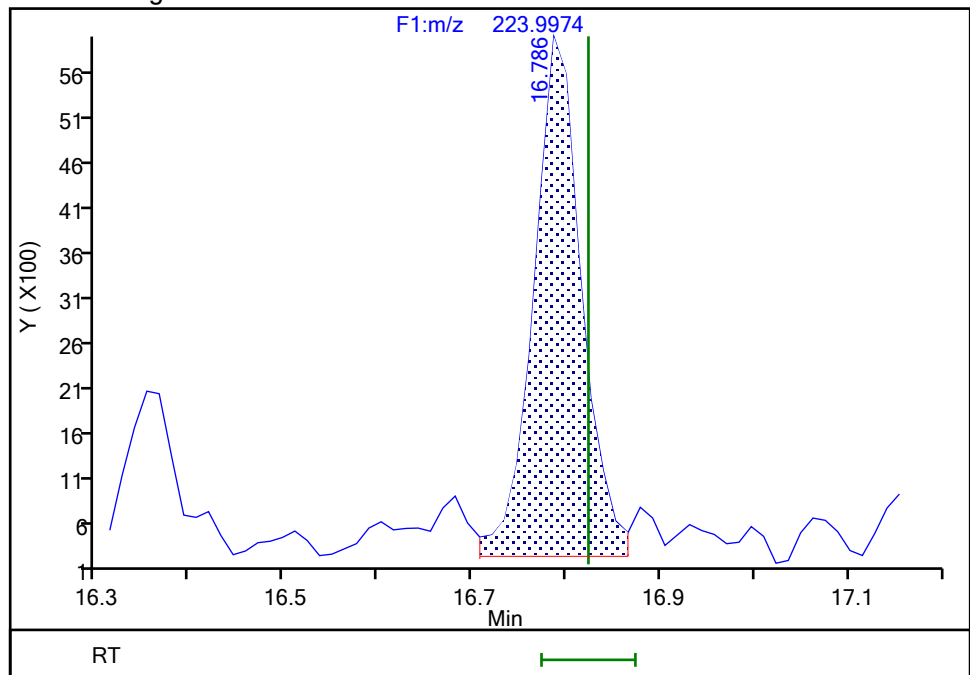
RT: 16.79
Area: 21611
Amount: 1.022519
Amount Units: pg/ul

Processing Integration Results



RT: 16.79
Area: 20108
Amount: 0.901322
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:24:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

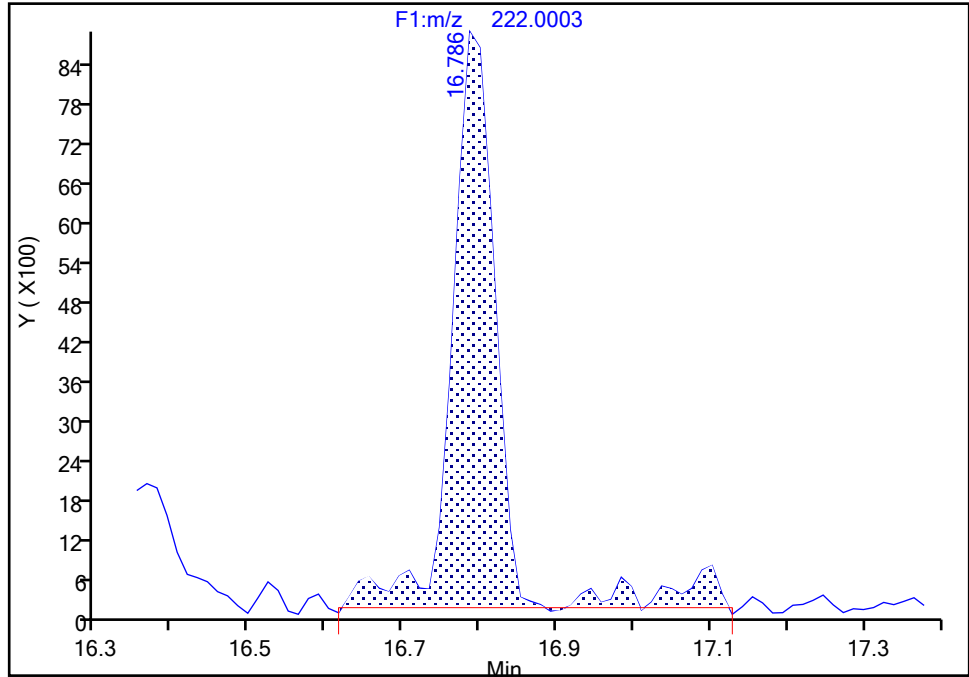
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

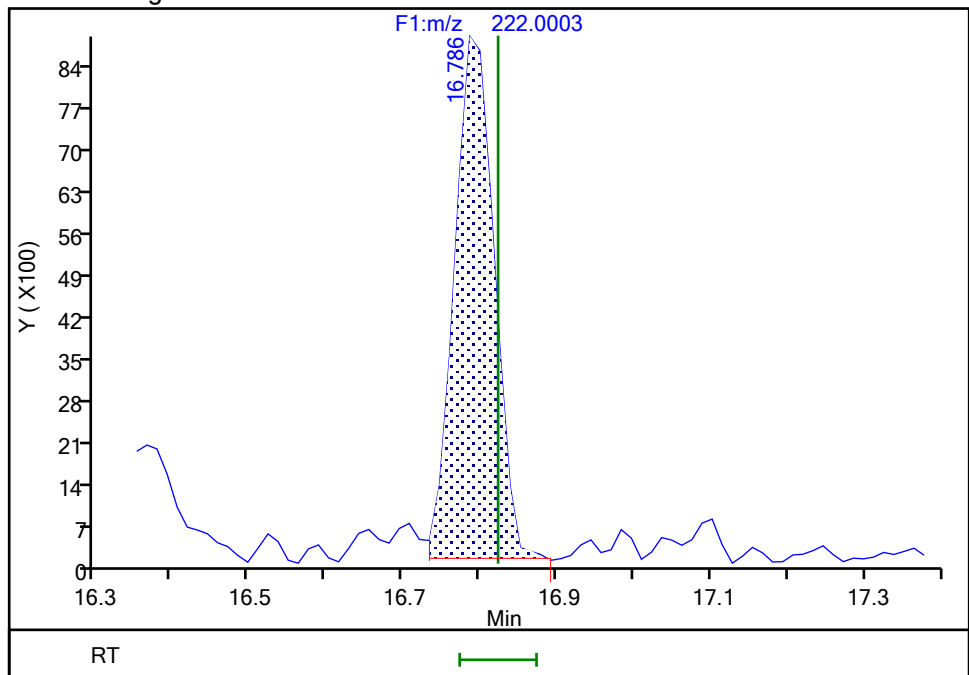
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Area: 36890
Amount: 1.022519
Amount Units: pg/ul

Processing Integration Results



RT: 16.79
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Amount: 0.901322
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:24:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1121 of 3050

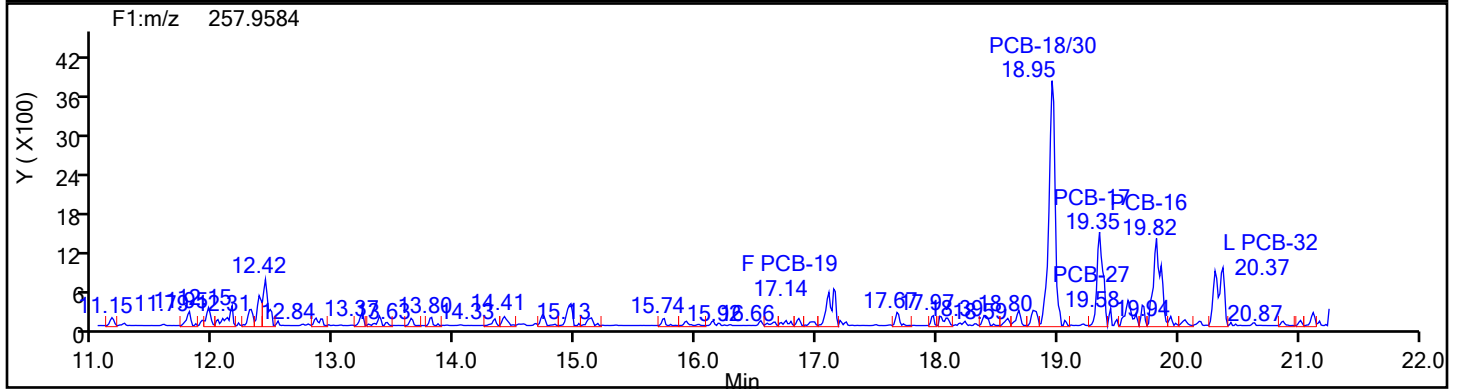
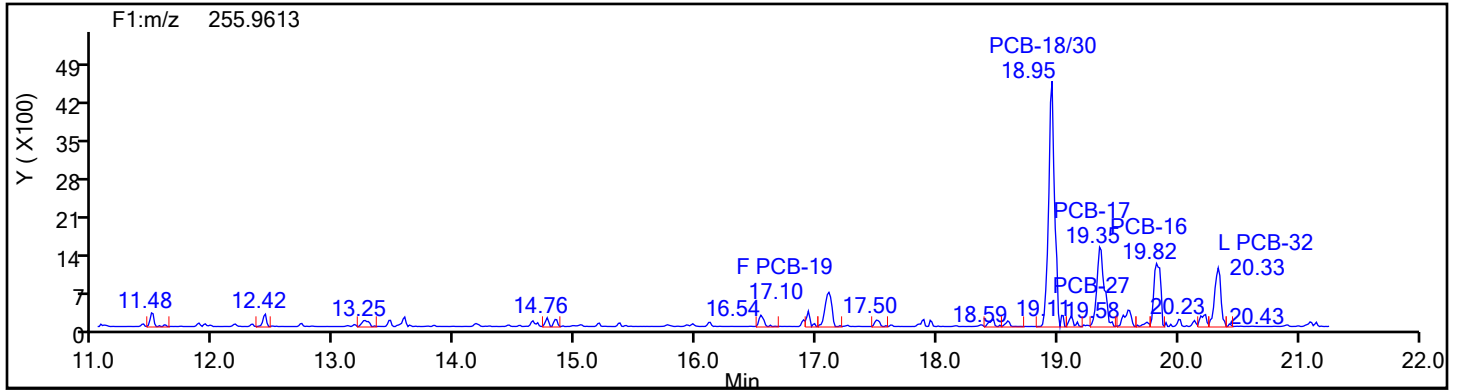
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9/6/2024

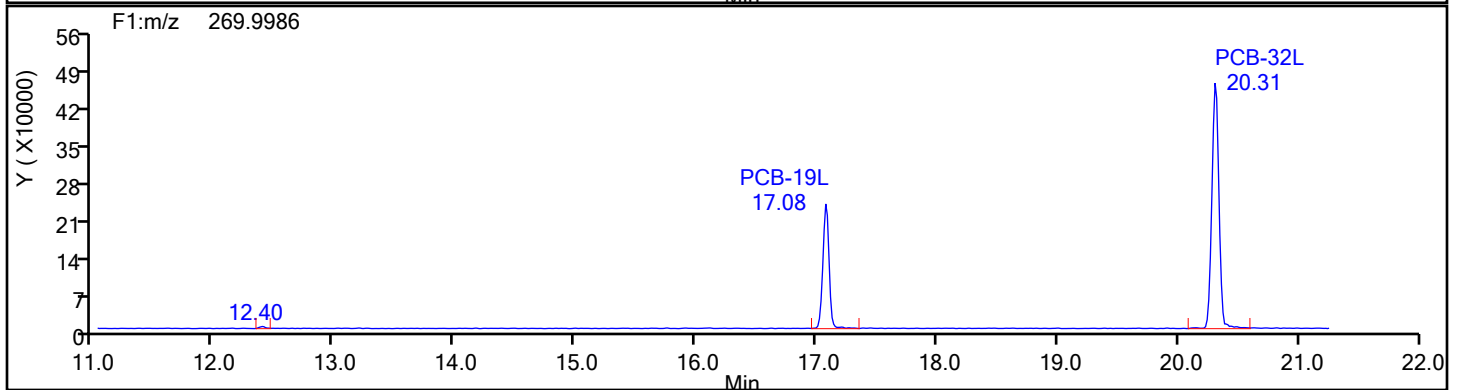
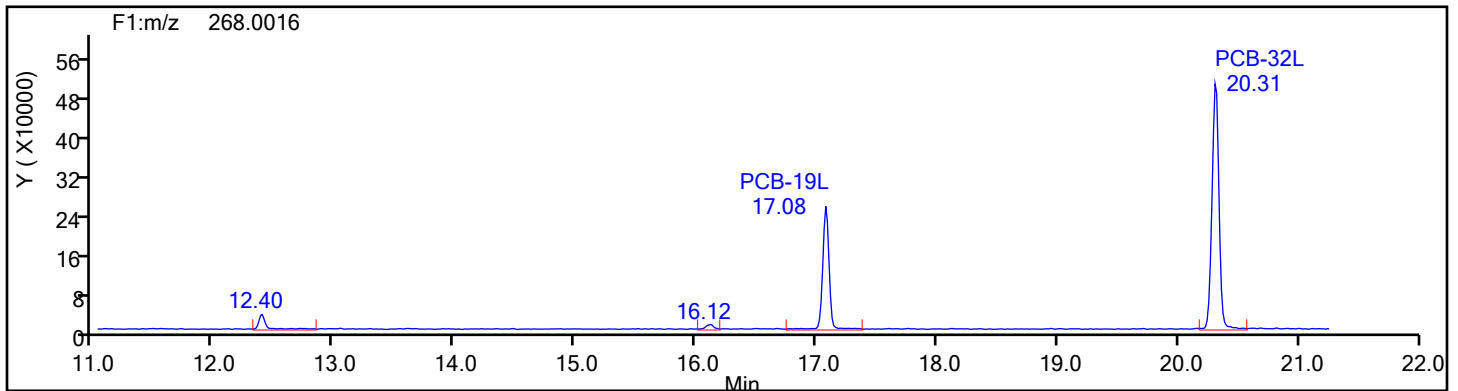
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

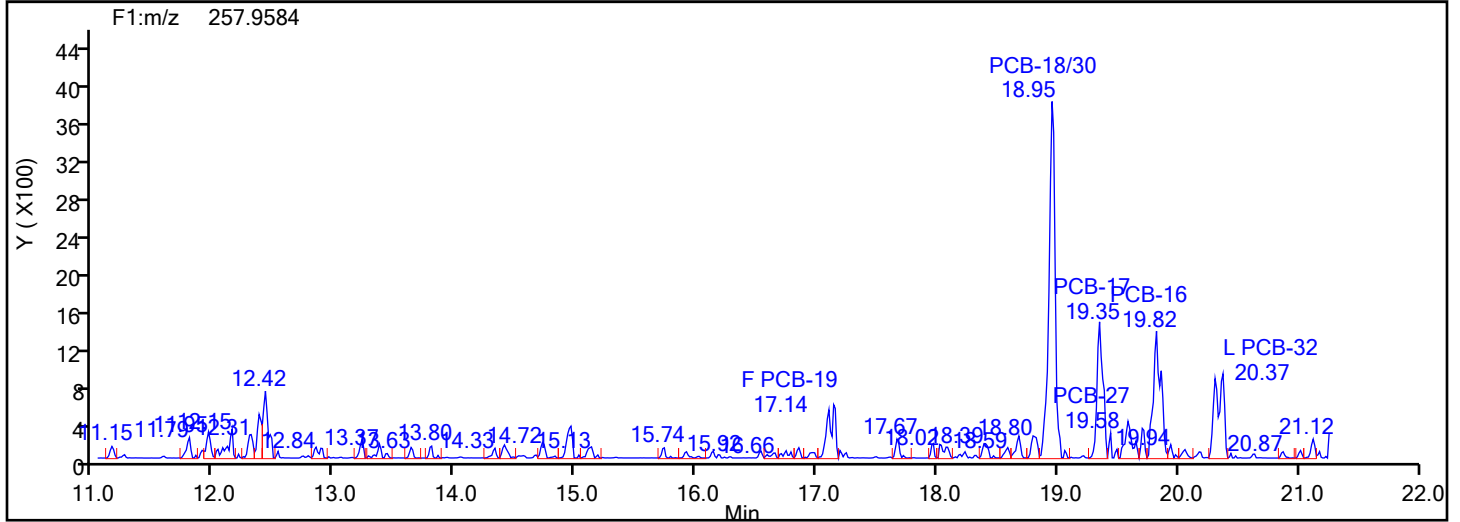
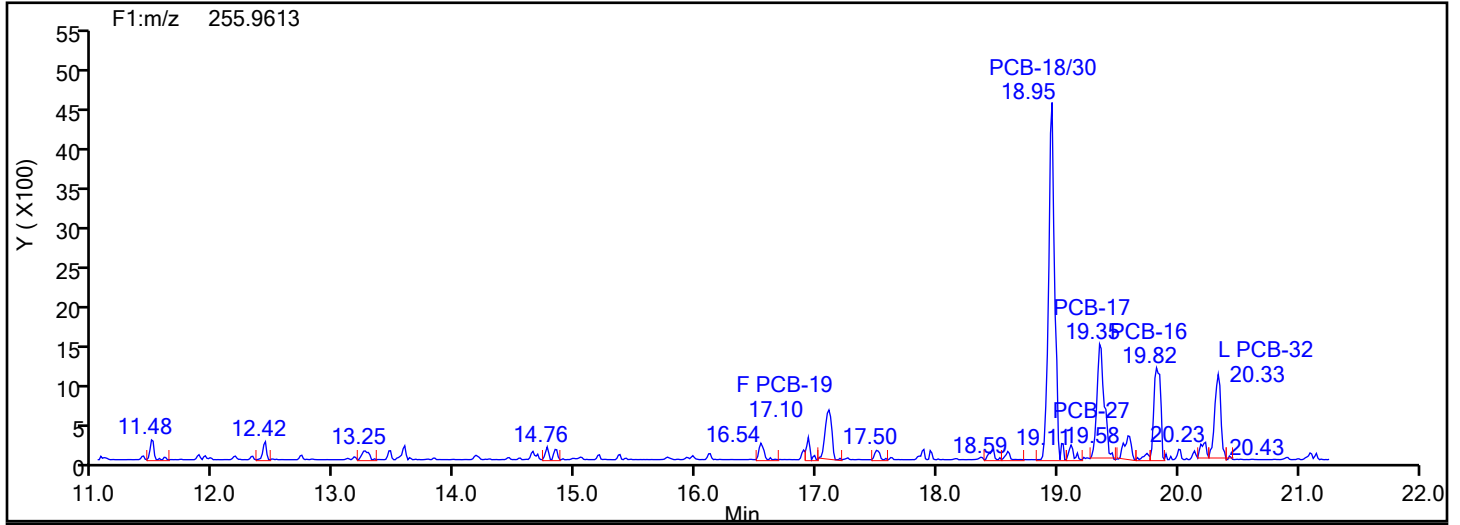


TriPCB F1 Standards

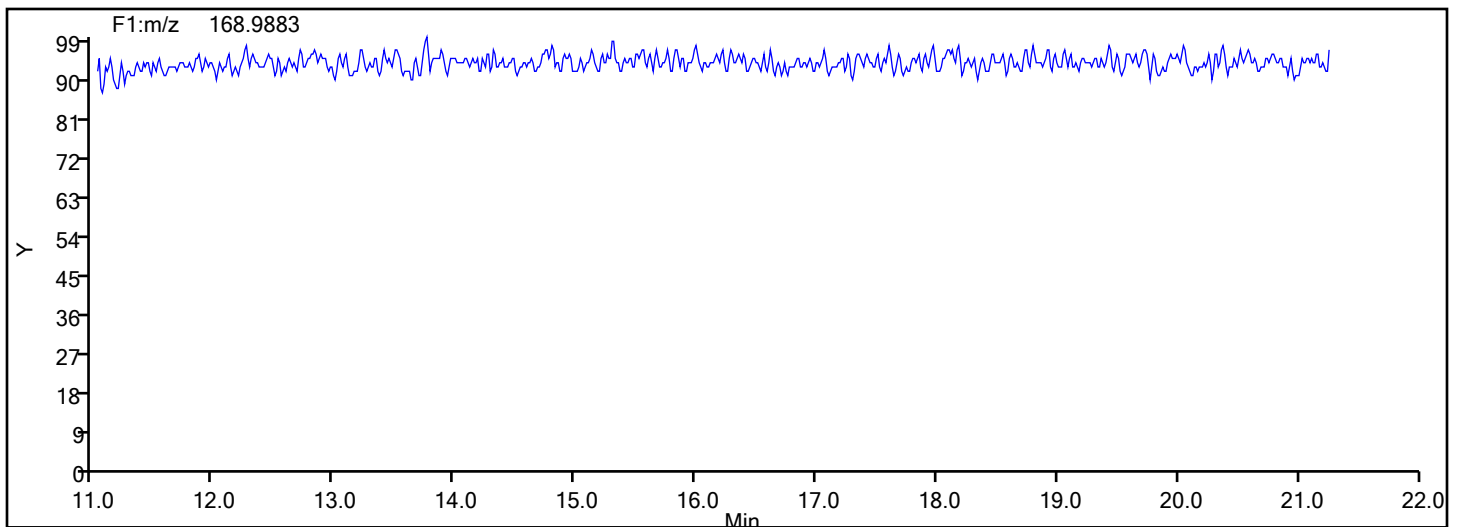


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

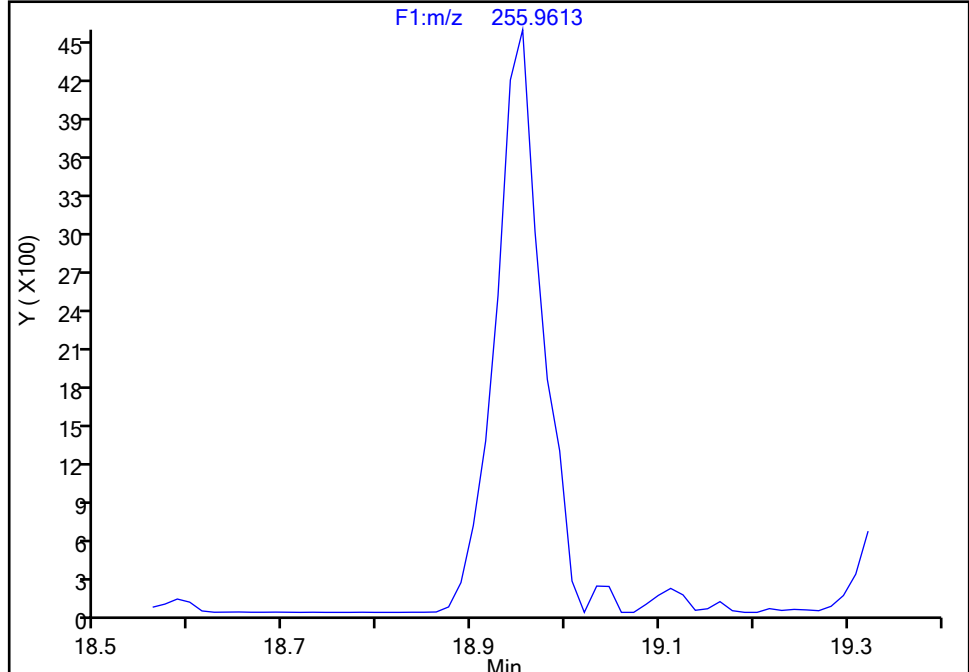
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

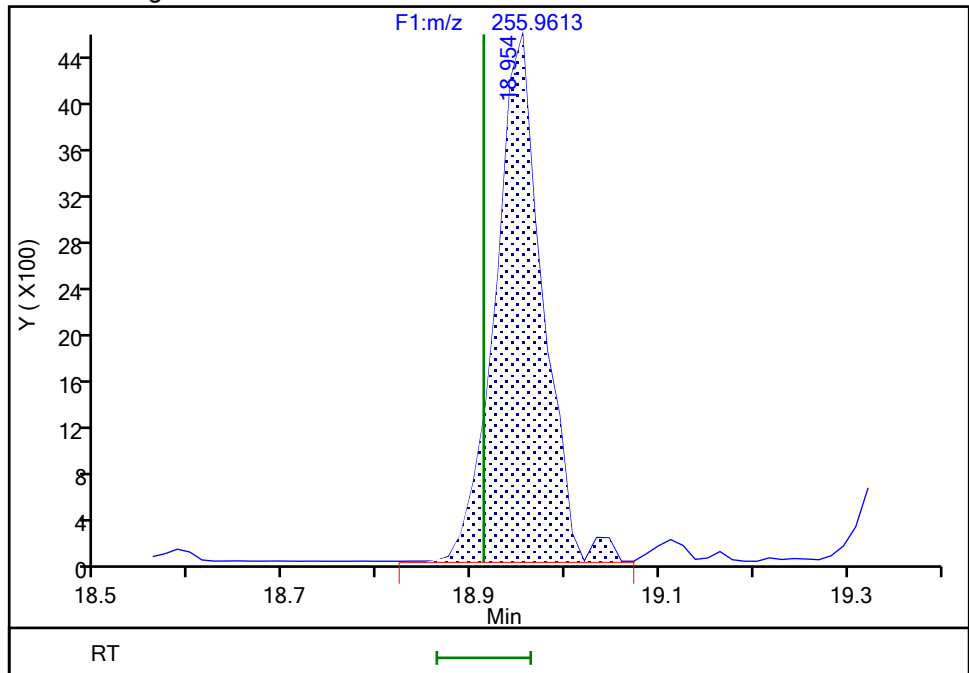
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 18.95
Area: 15722
Amount: 0.946693
Amount Units: pg/ul

Manual Integration Results



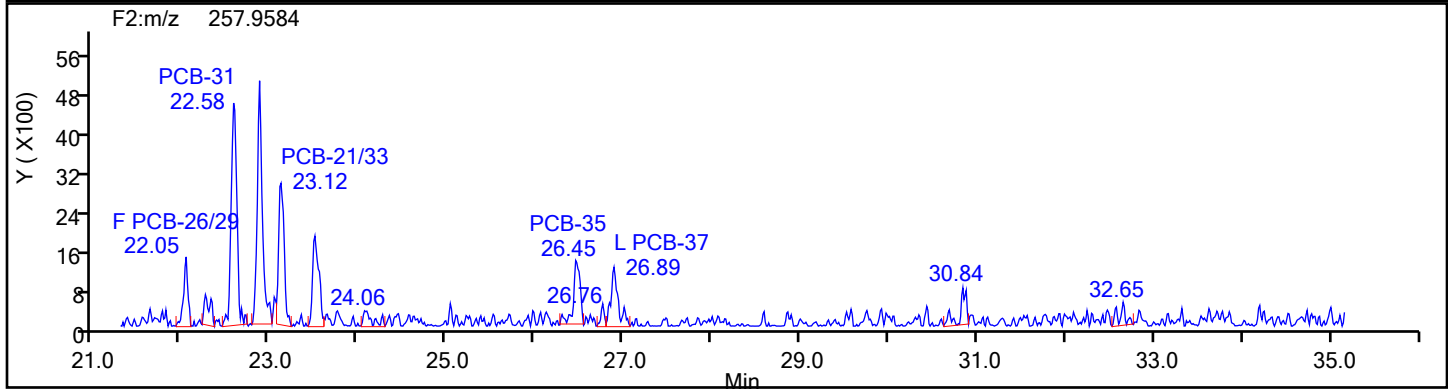
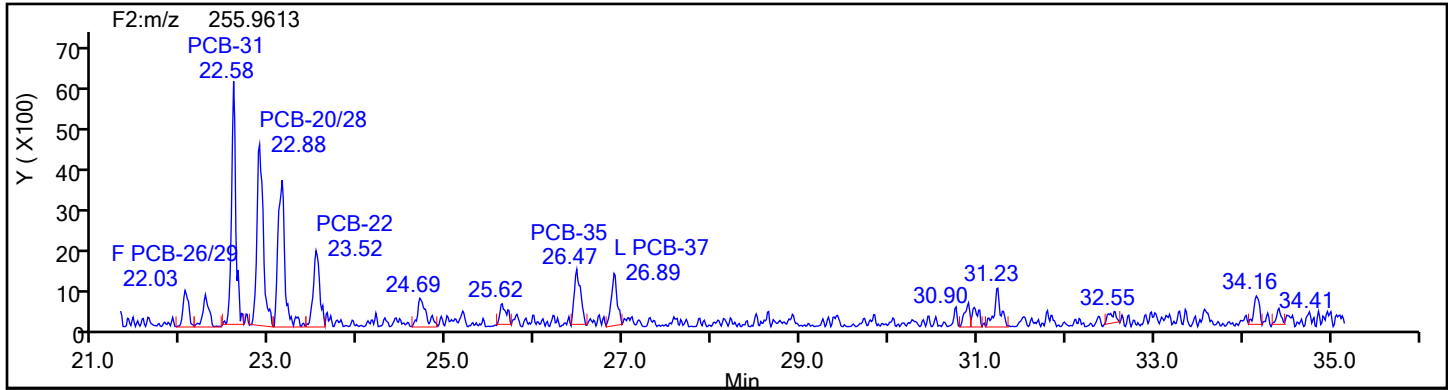
Reviewer: V4XA, 16-Jul-2024 19:25:19 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

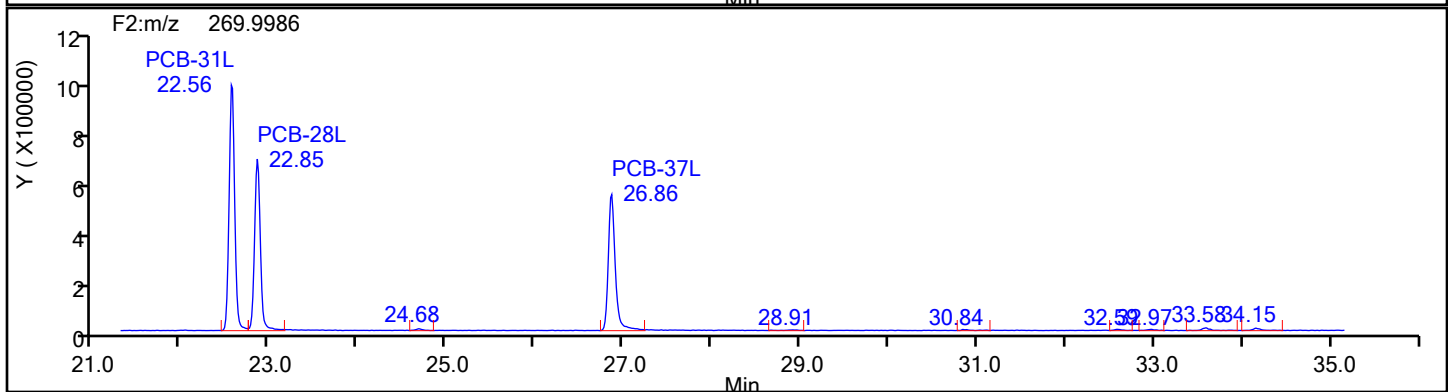
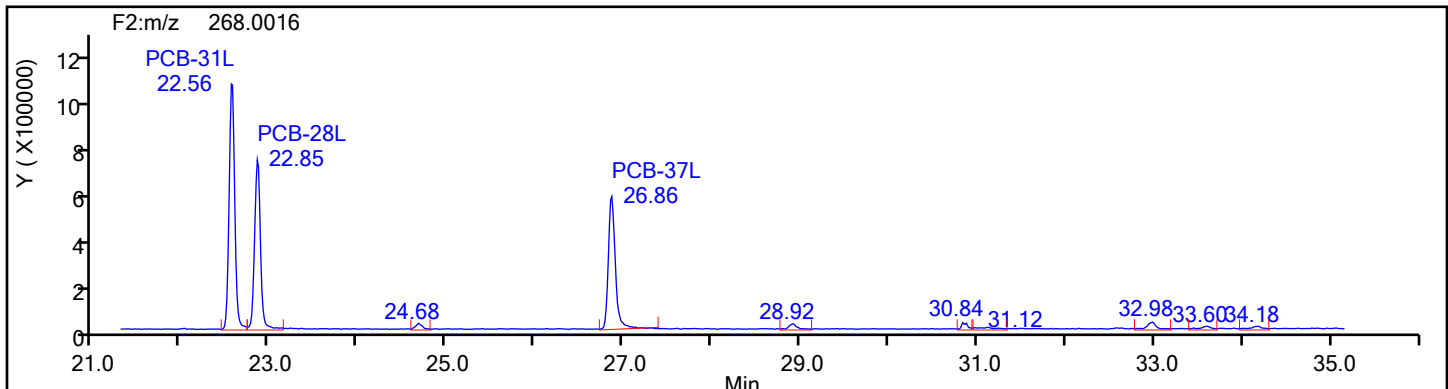
Audit Reason: Split Peak

Eurofins Knoxville

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Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

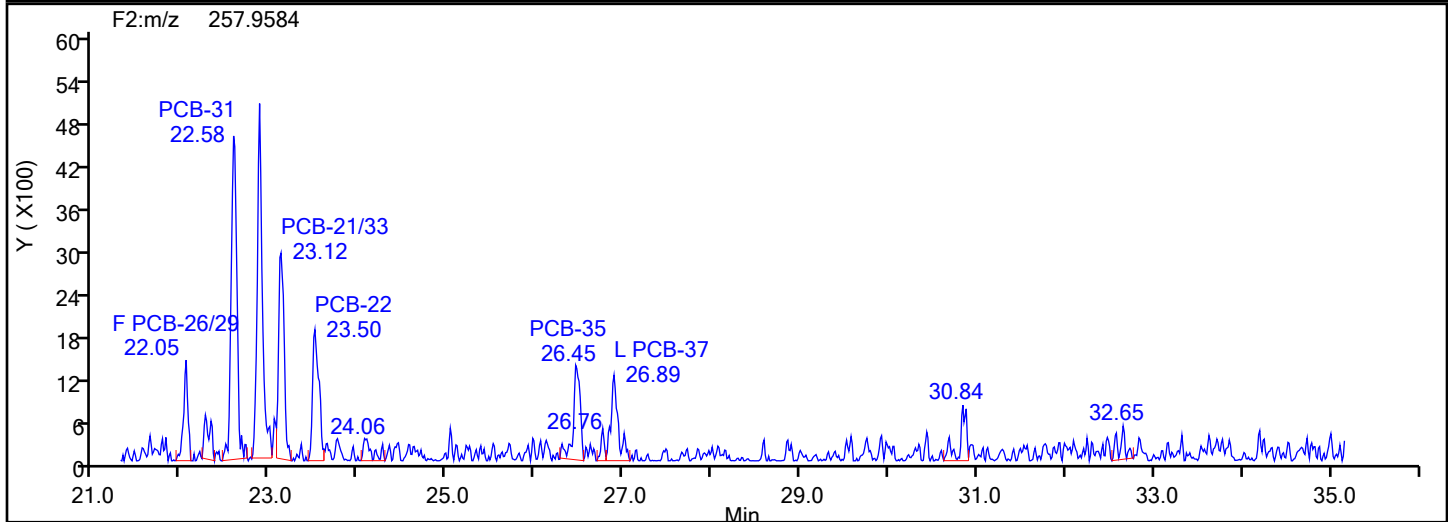
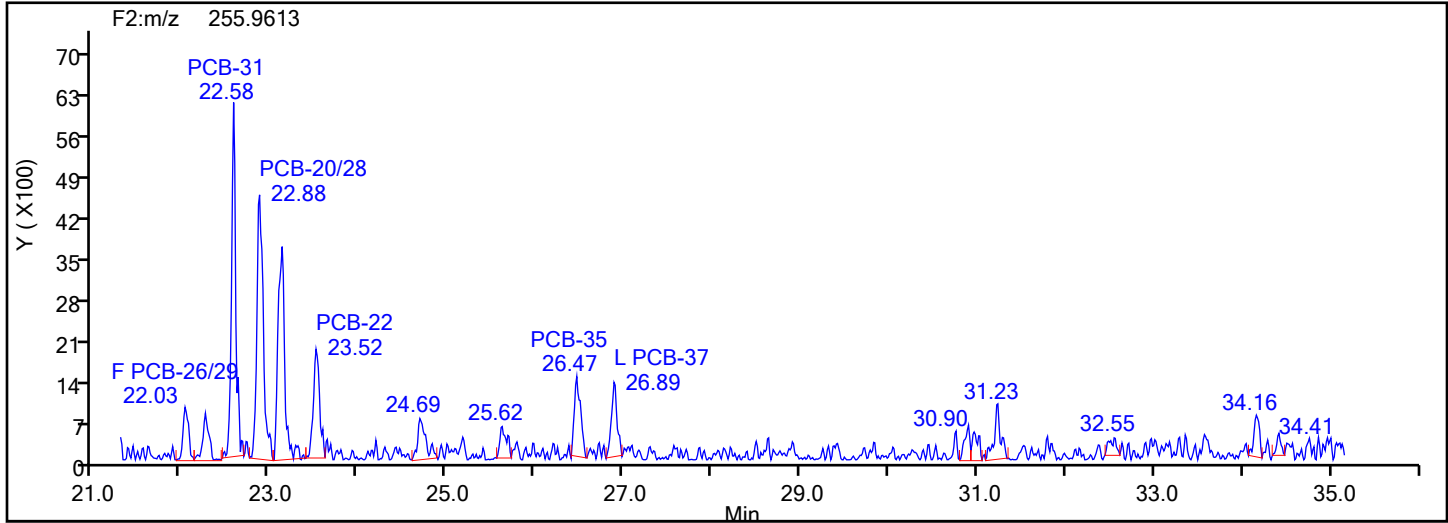


TriPCB F2 Standards

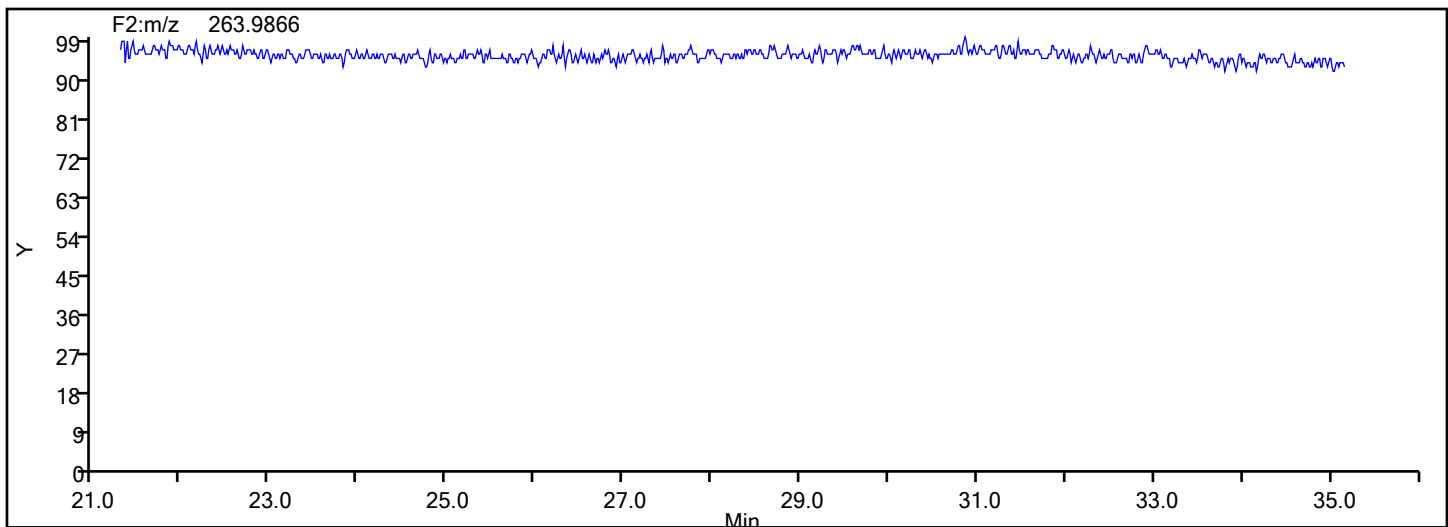


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

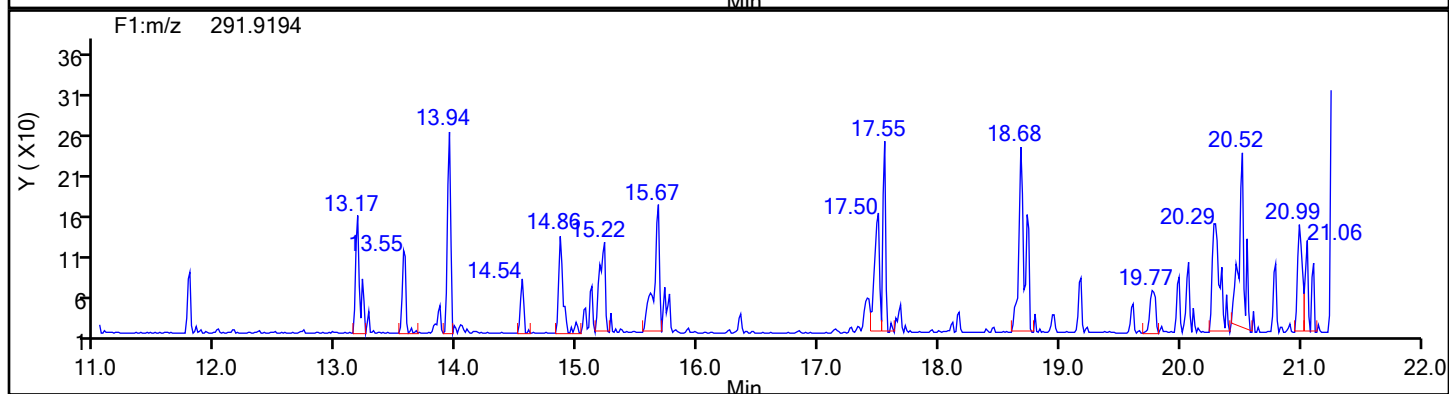
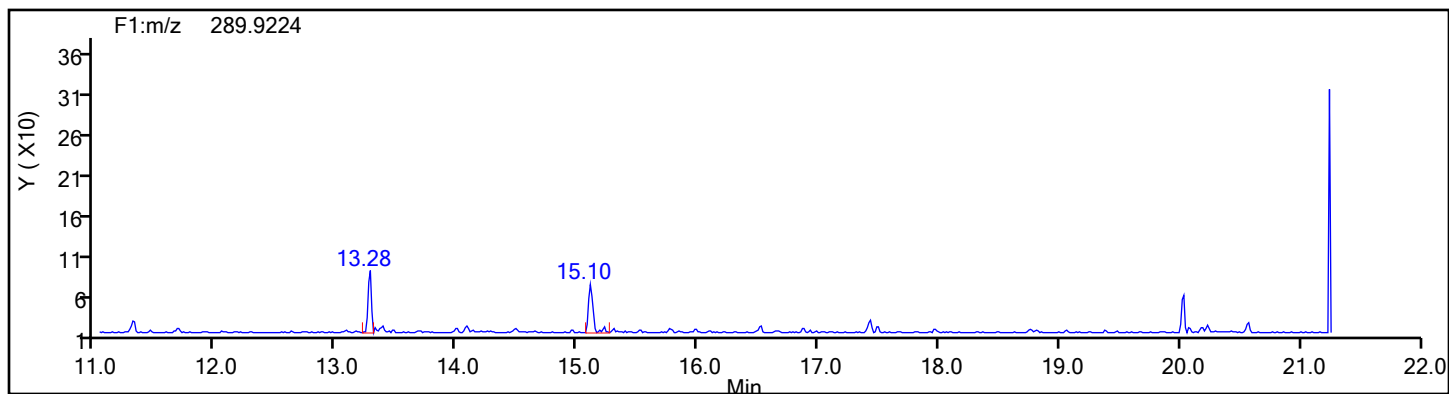


TriPCB F2 Lock Mass

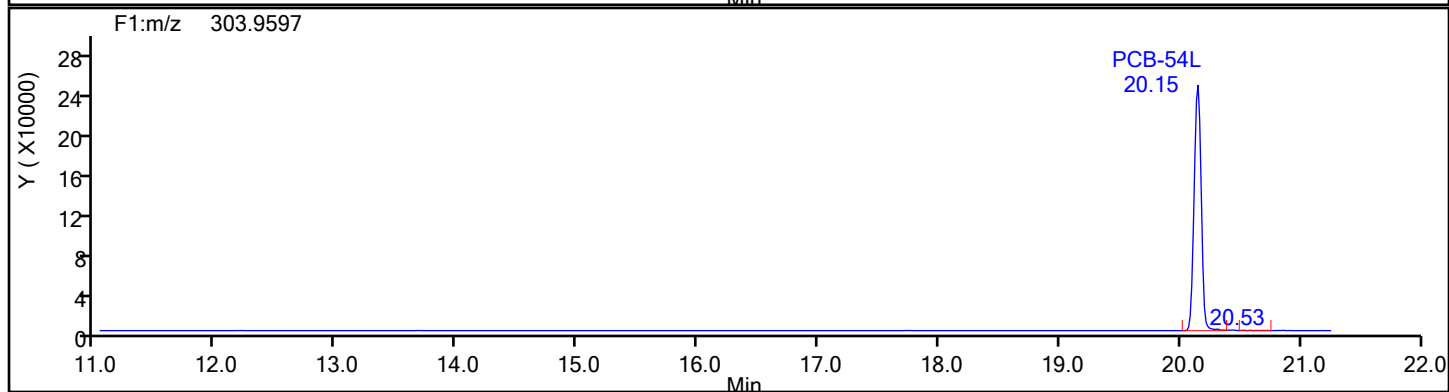
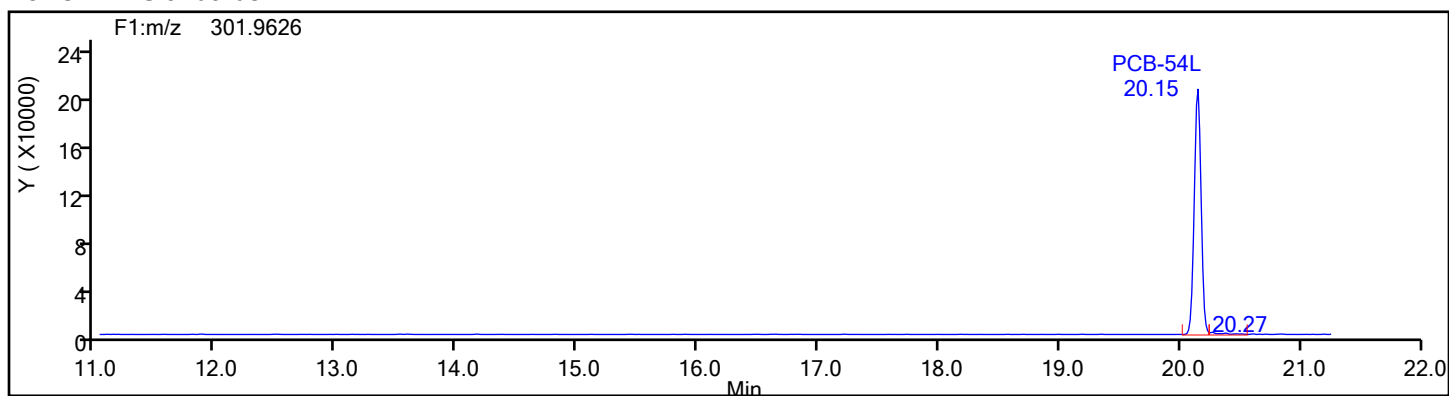


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

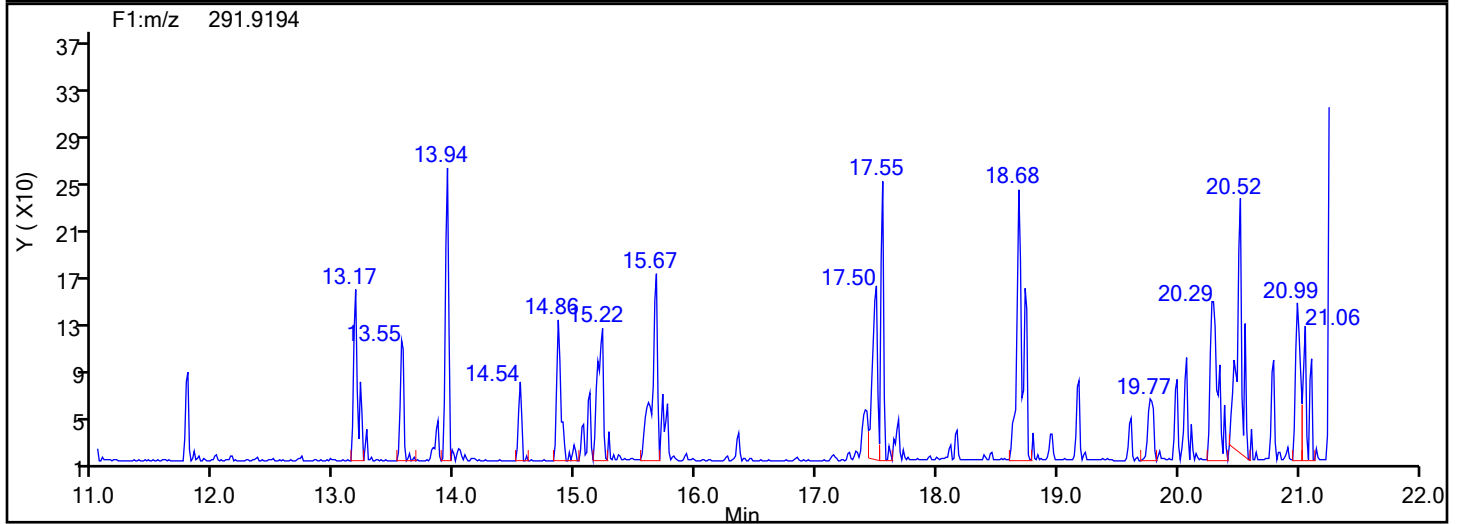
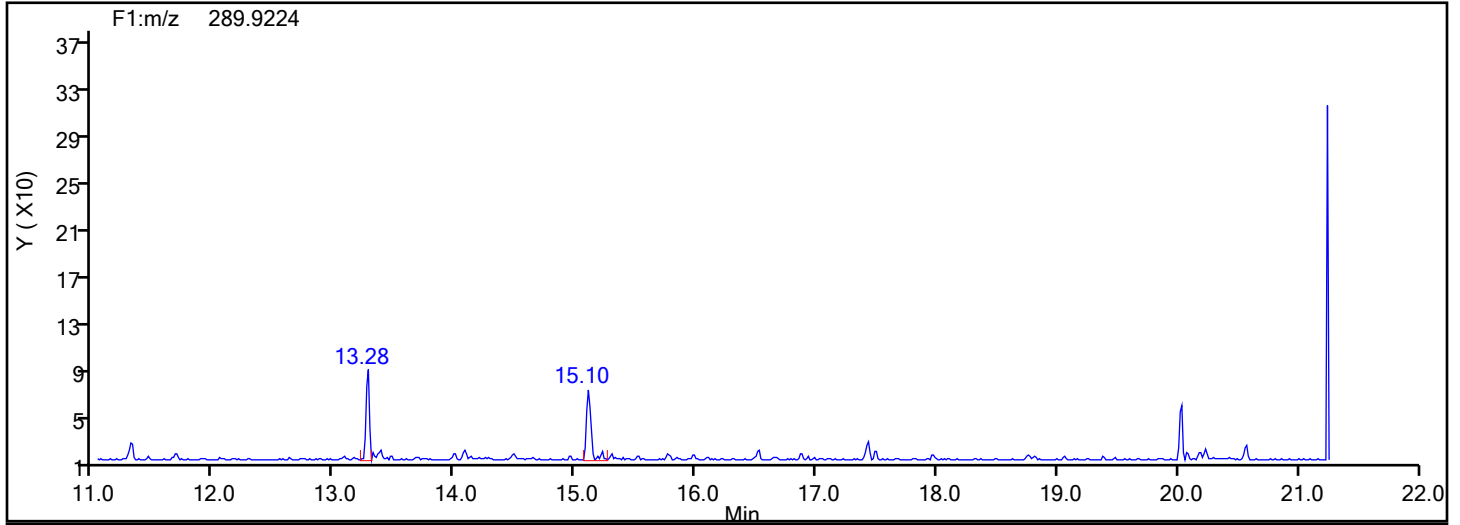


TePCB F1 Standards

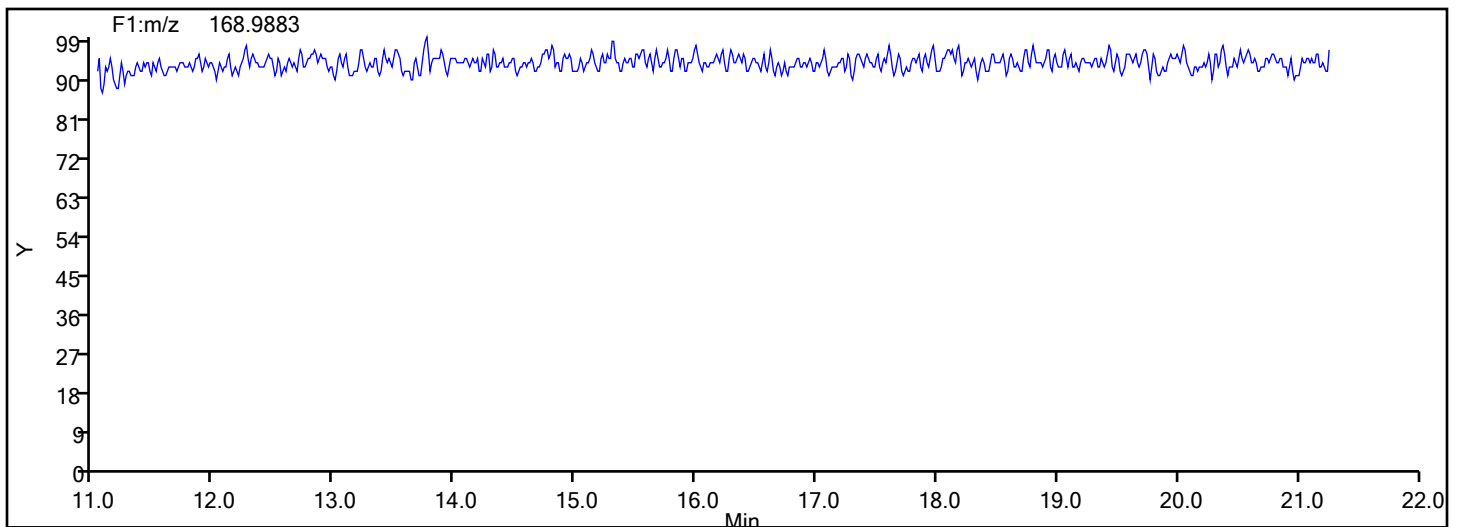


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

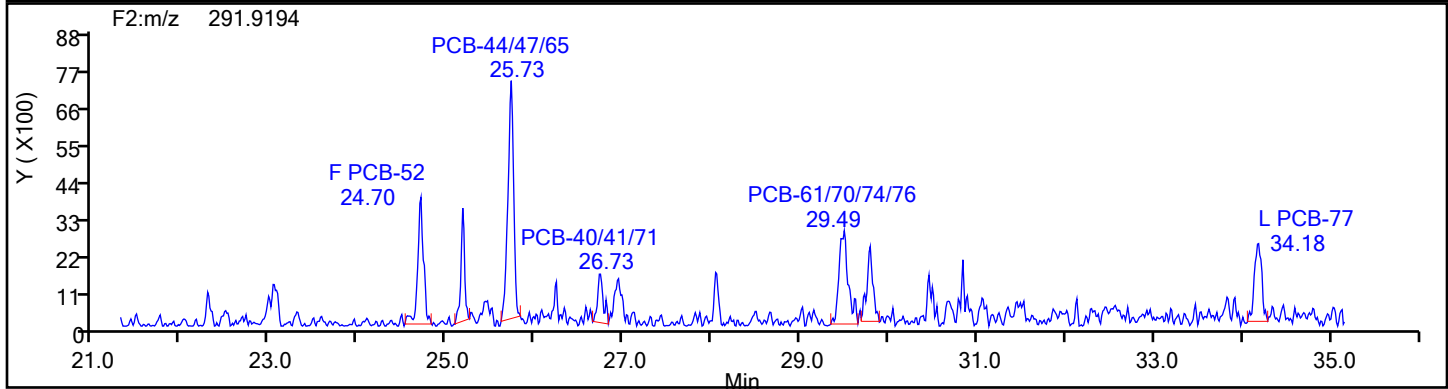
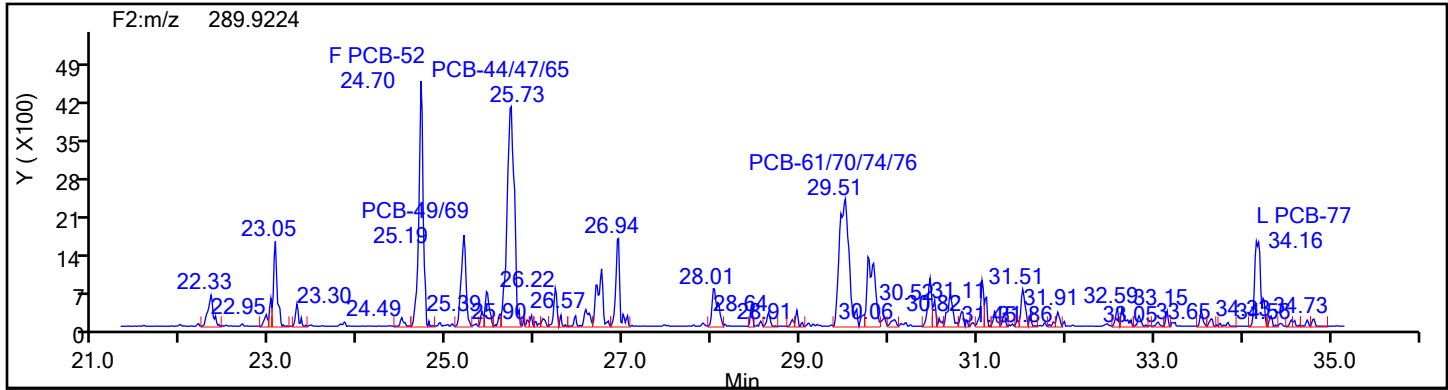


TePCB F1 Lock Mass

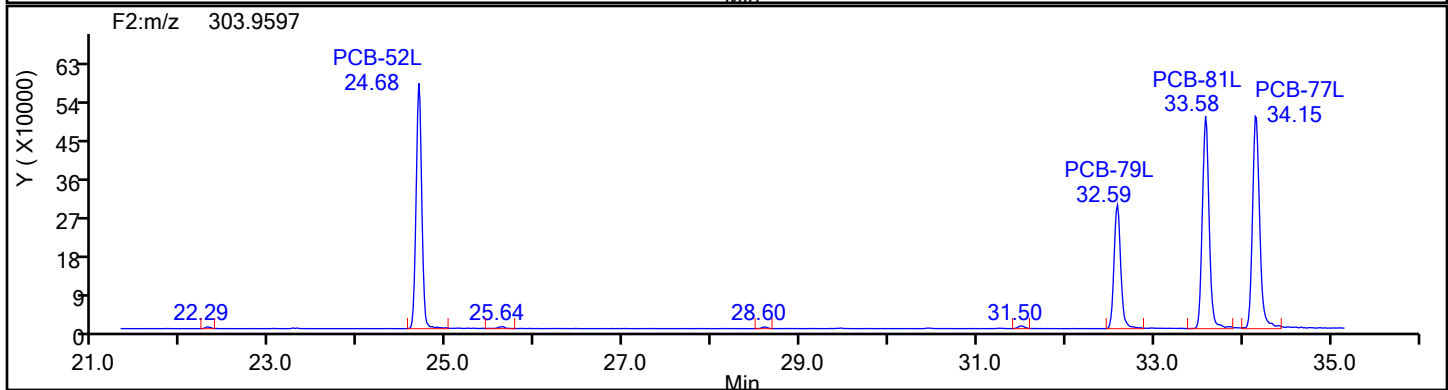
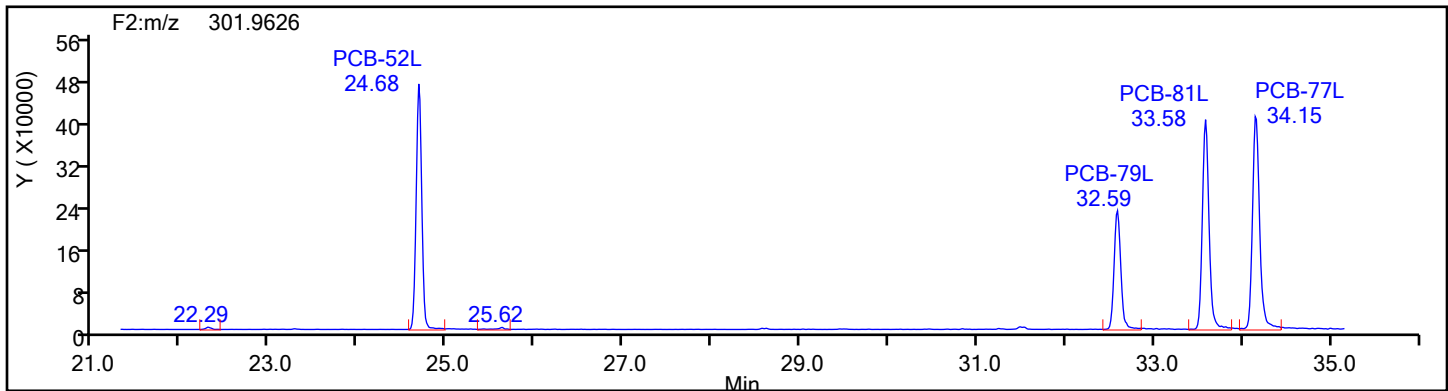


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

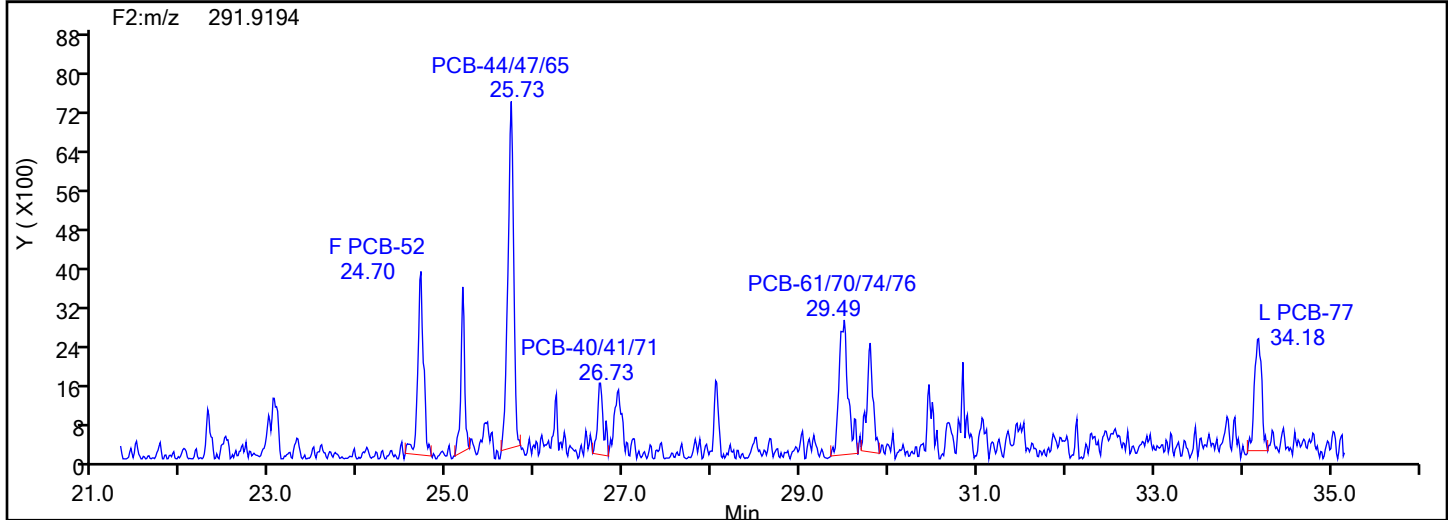
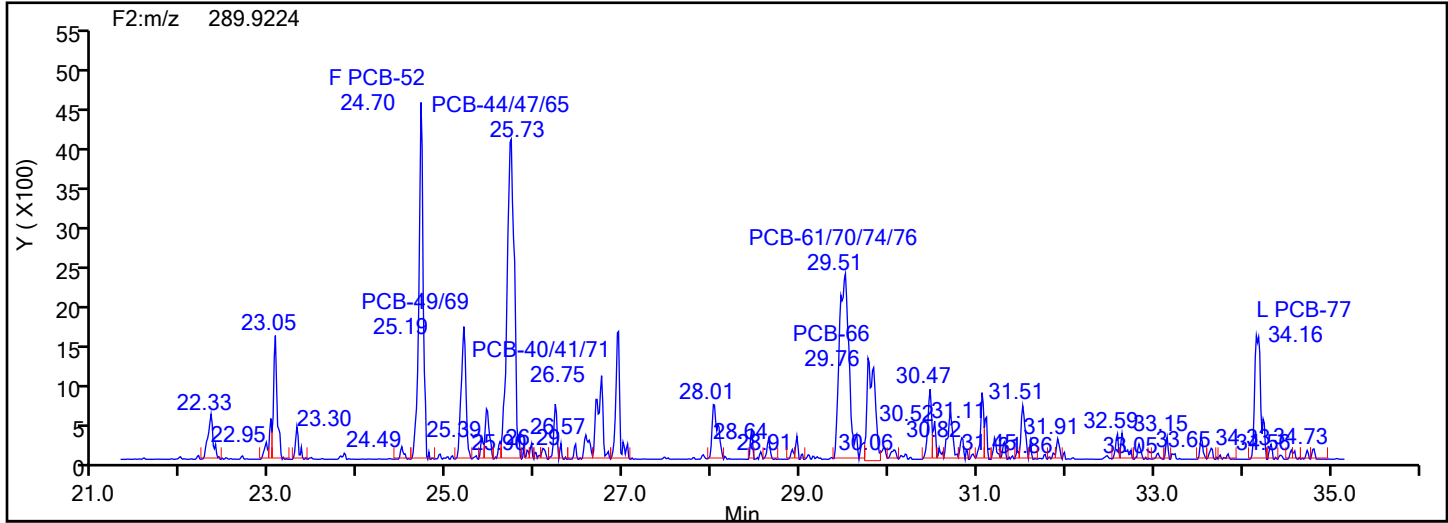


TePCB F2 Standards

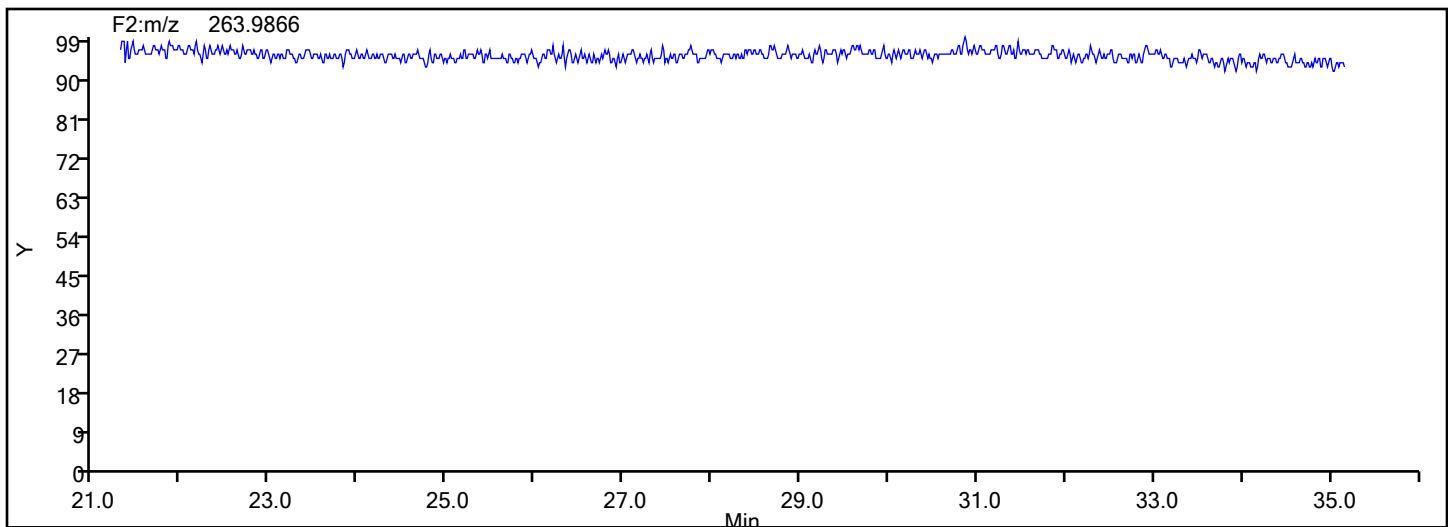


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

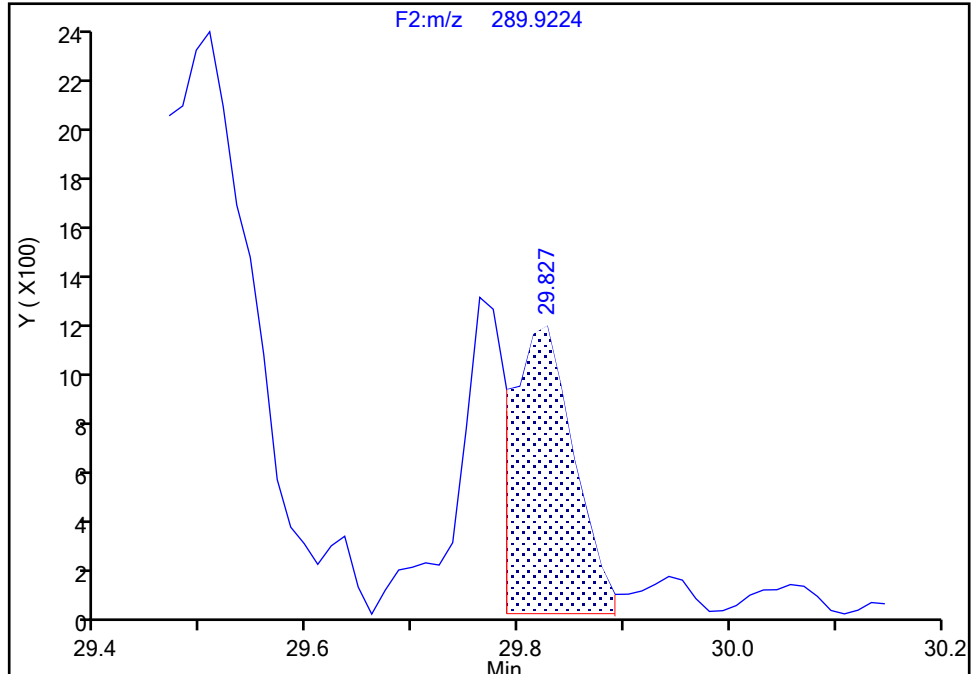
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Injection Date: 16-Jul-2024 03:58:00 Instrument ID: D2D
Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-66, CAS: 32598-10-0

Signal: 1

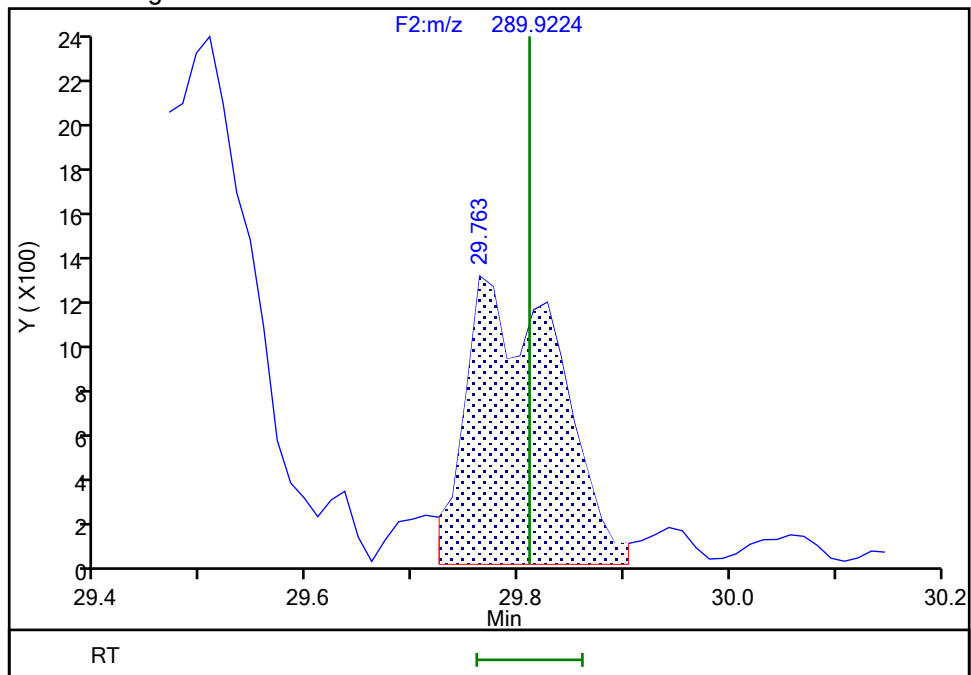
RT: 29.83
Area: 4514
Amount: 0.247285
Amount Units: pg/ul

Processing Integration Results



RT: 29.76
Area: 7813
Amount: 0.300244
Amount Units: pg/ul

Manual Integration Results



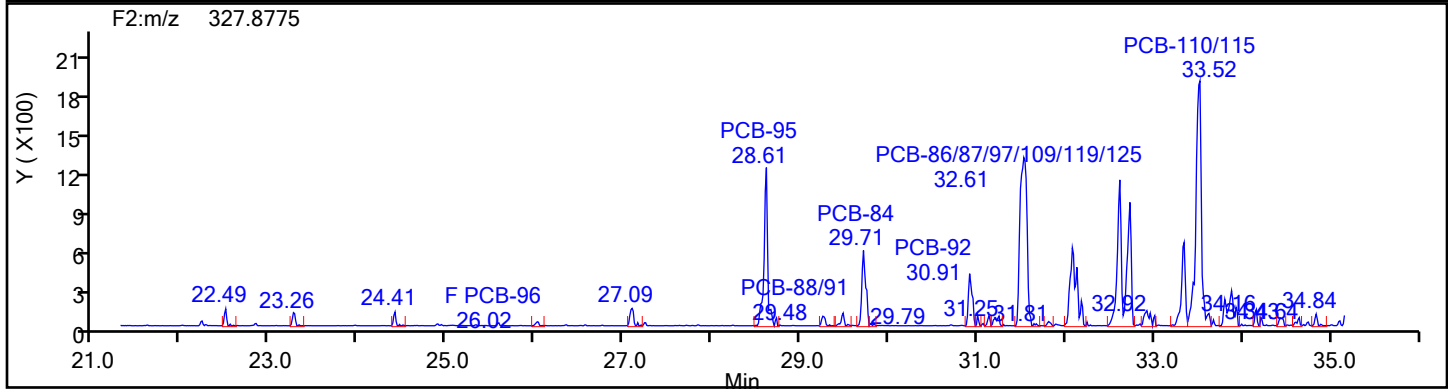
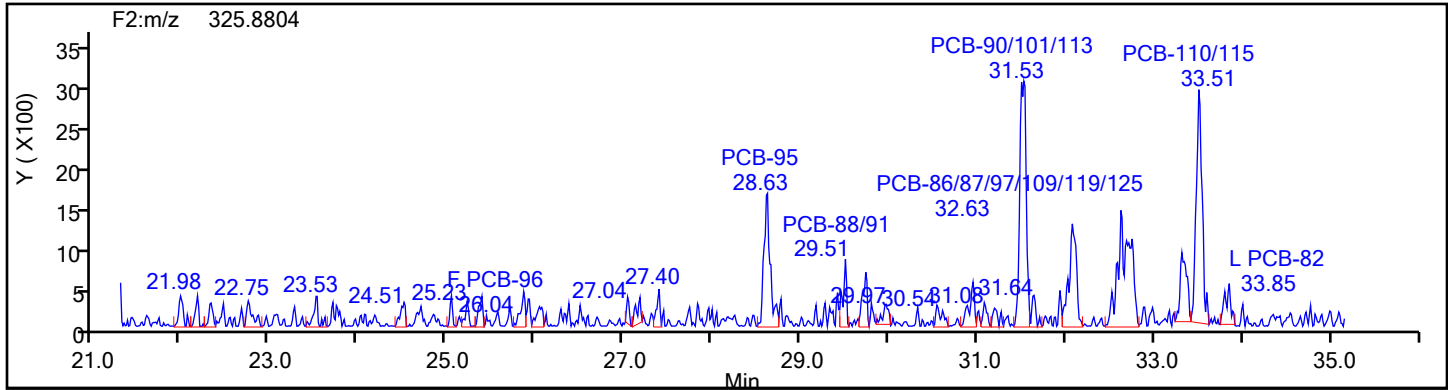
Reviewer: V4XA, 16-Jul-2024 19:27:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

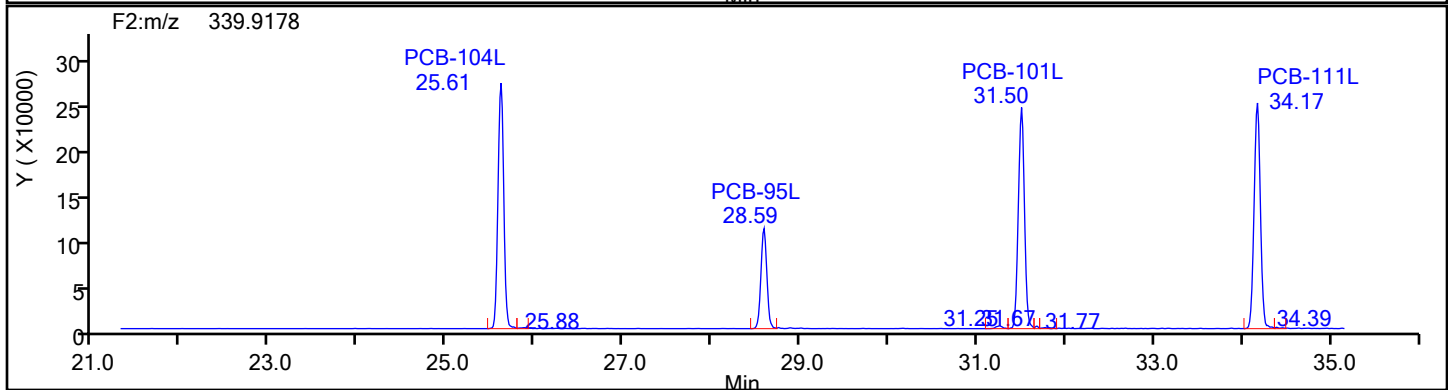
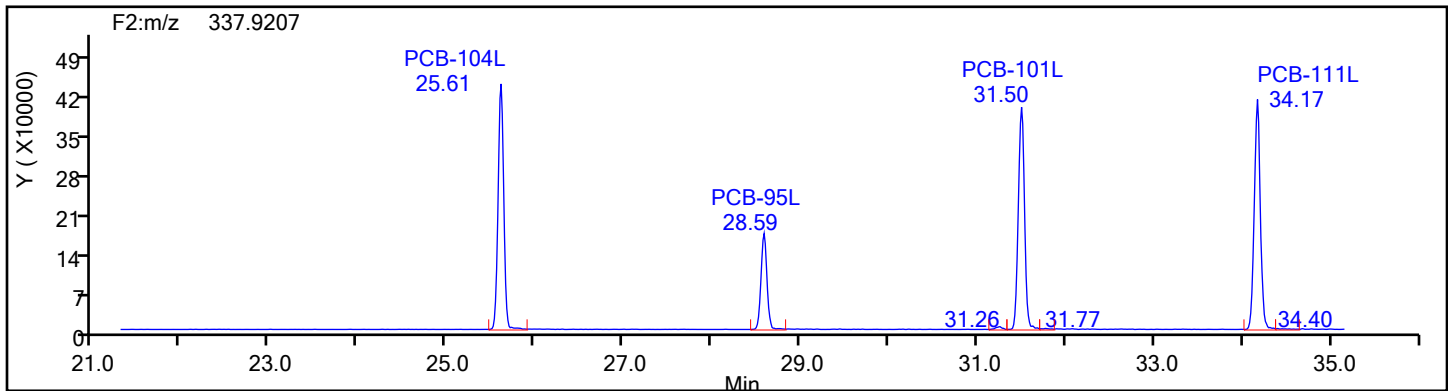
Audit Reason: Baseline

Eurofins Knoxville

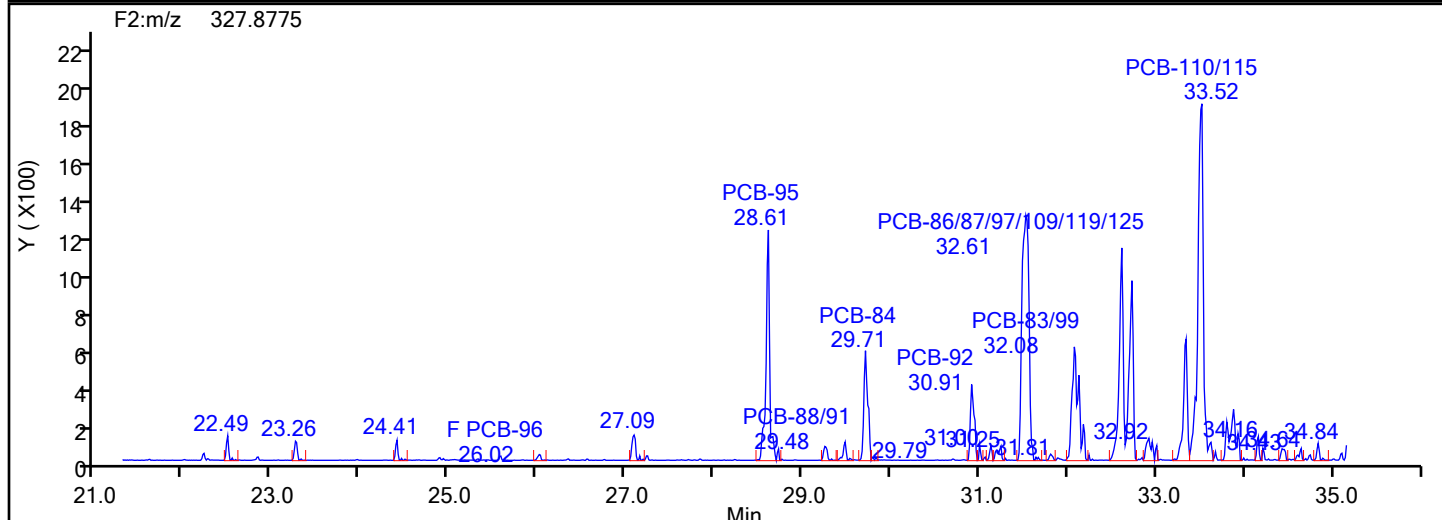
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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Standards

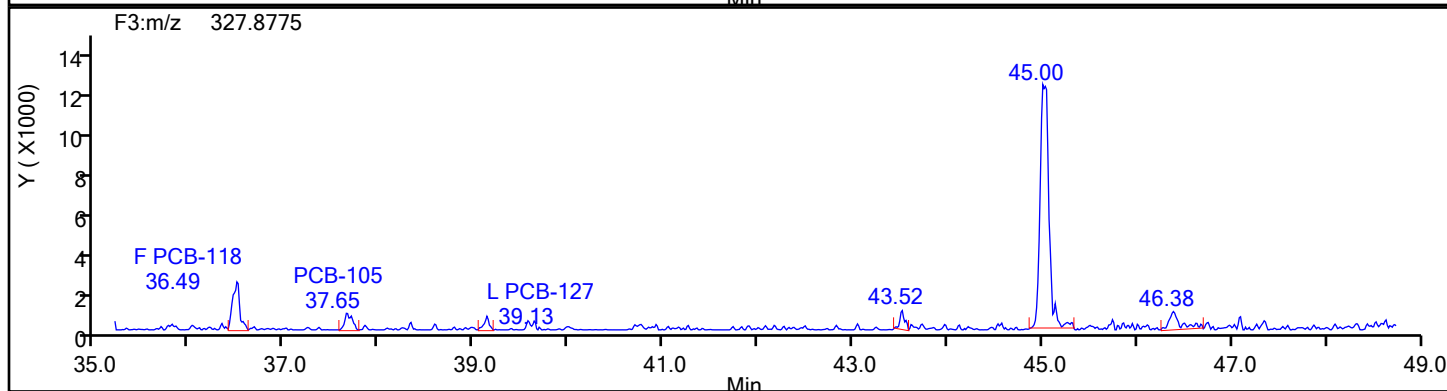
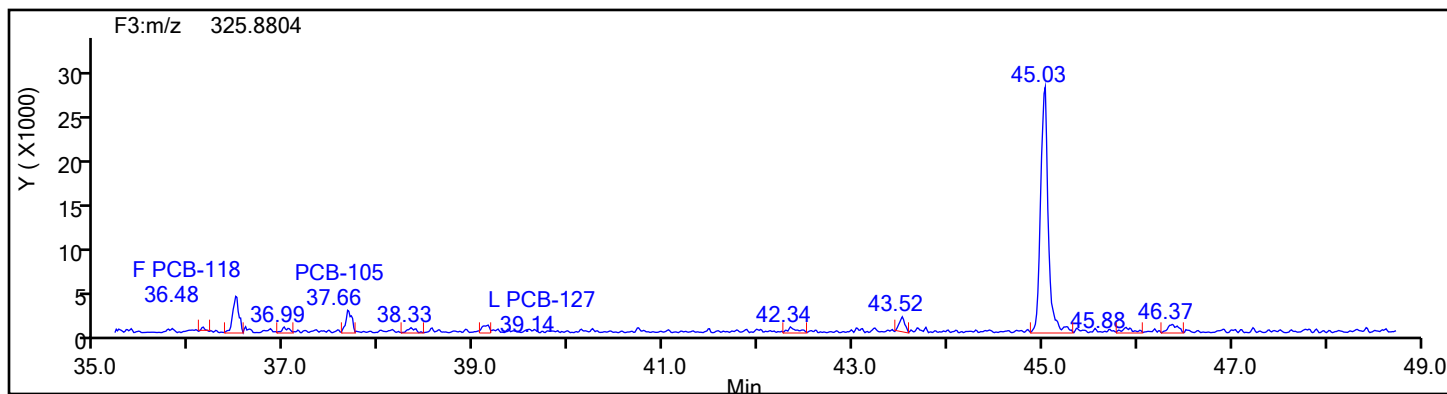


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Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED		
Worklist#:	88780	Sample Line#:	7
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
PePCB F2			

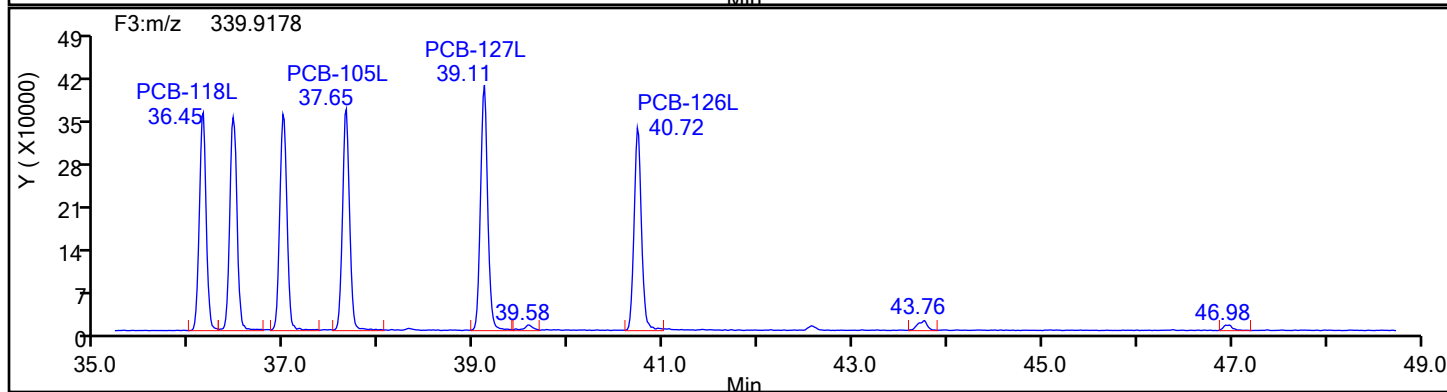
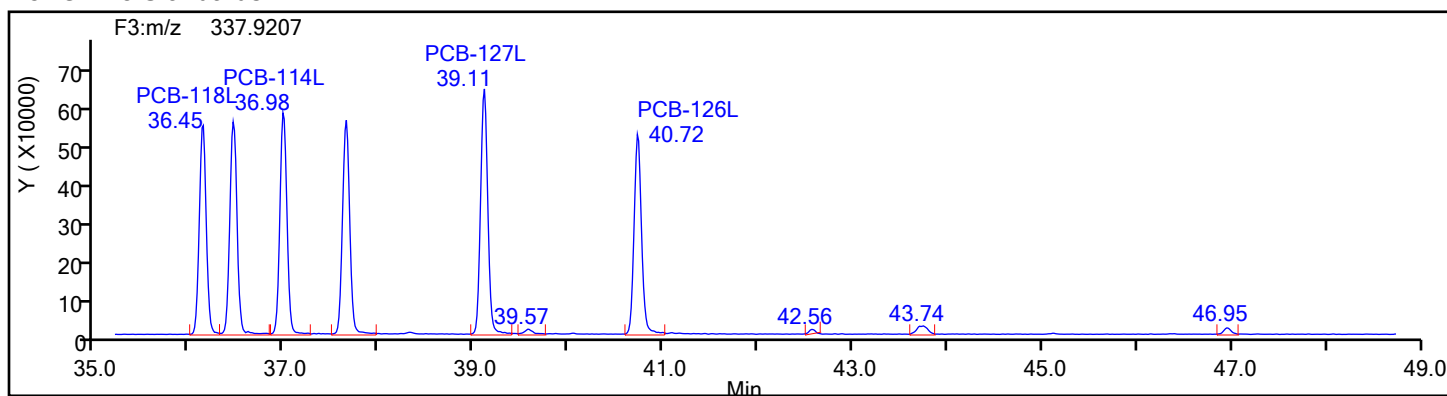


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

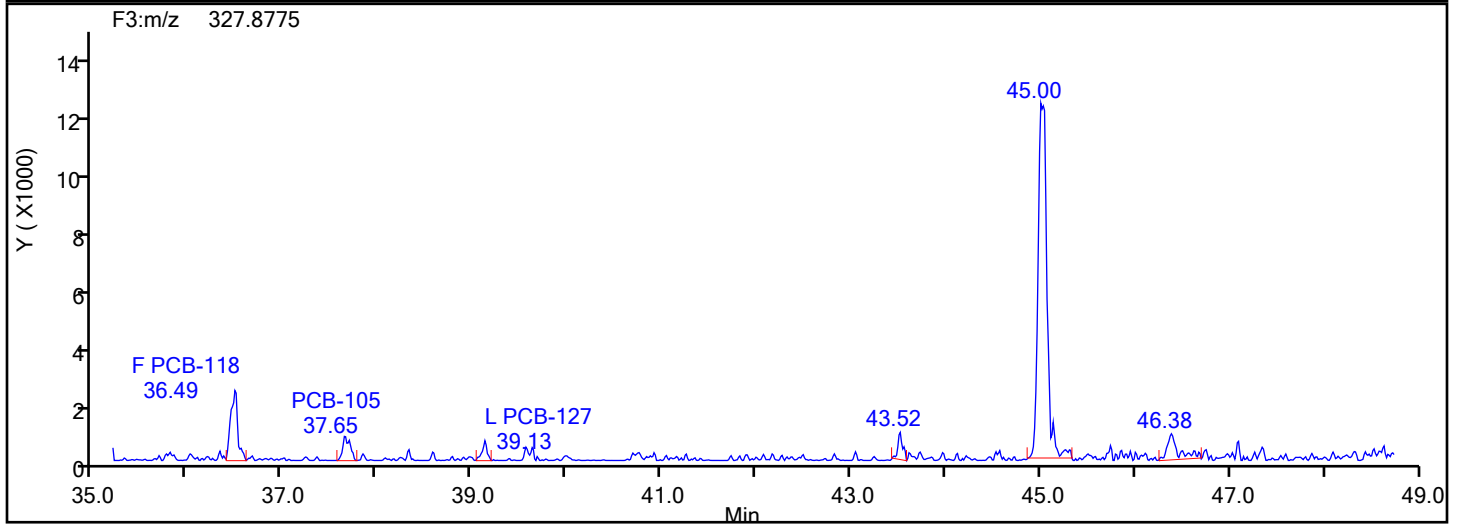
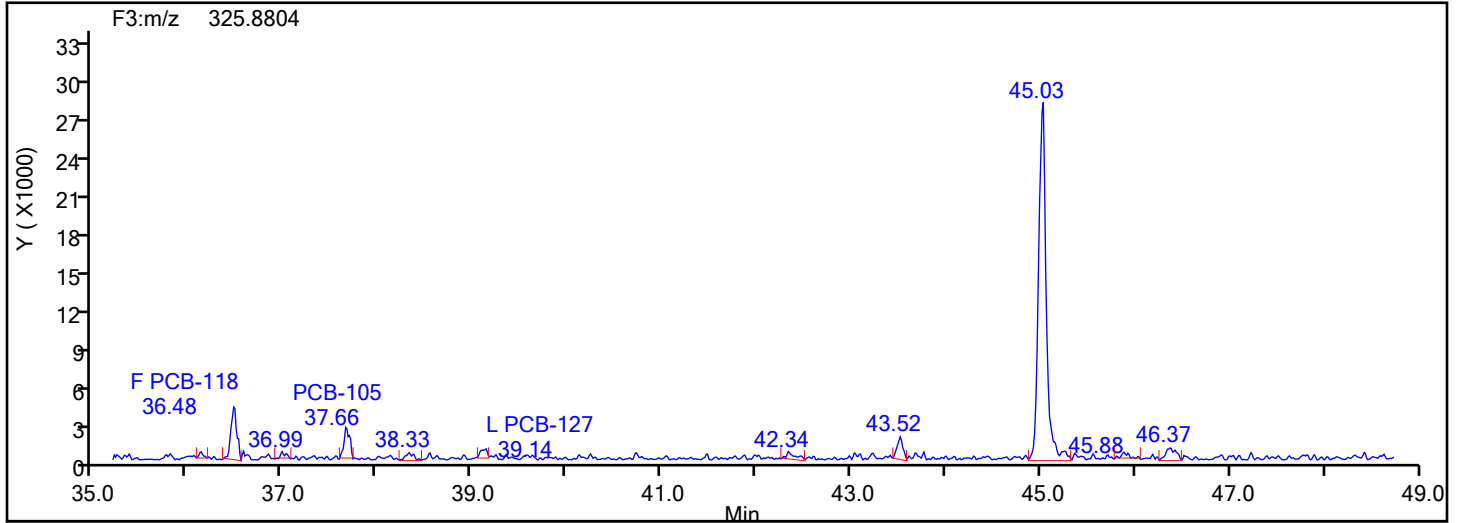


PePCB F3 Standards

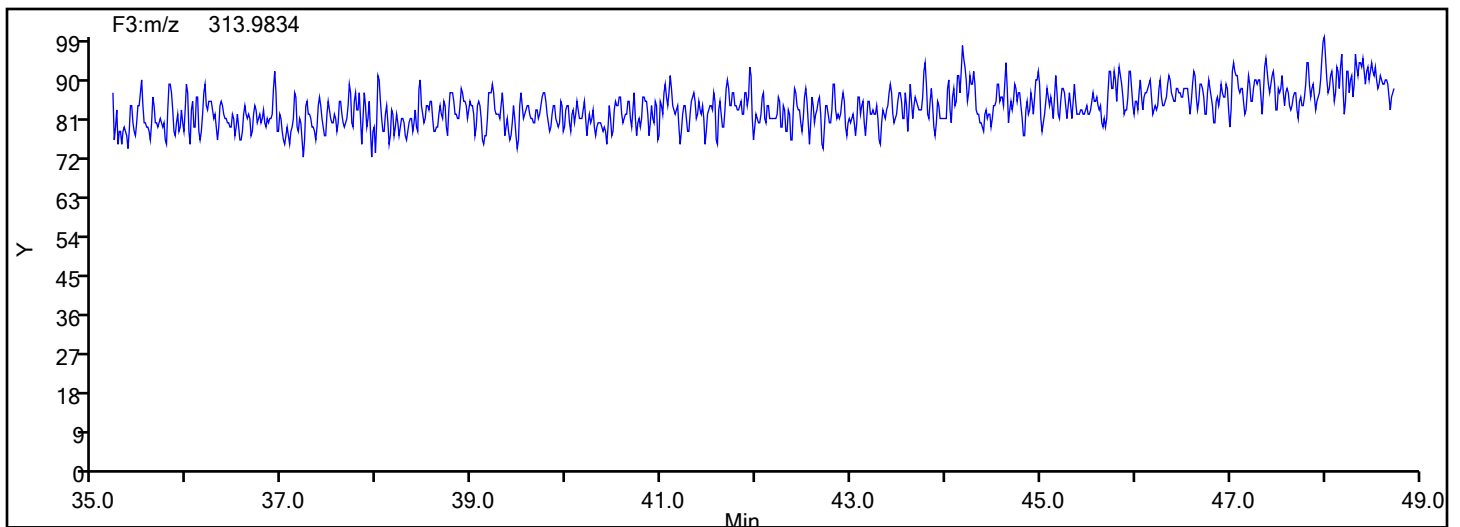


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

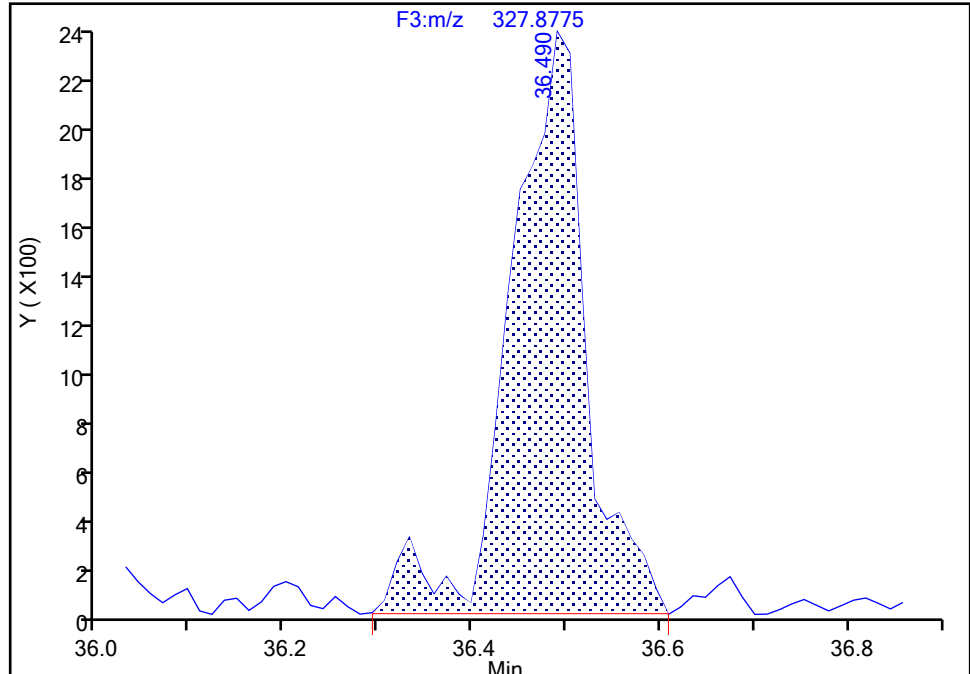
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 2

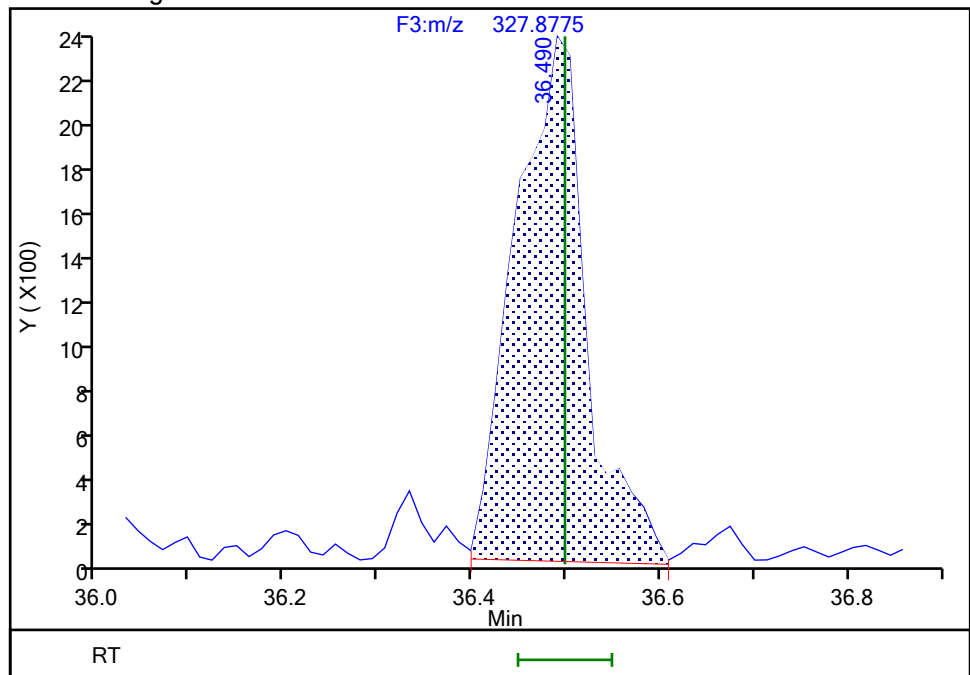
RT: 36.49
Area: 13134
Amount: 0.530014
Amount Units: pg/ul

Processing Integration Results



RT: 36.49
Area: 12395
Amount: 0.517499
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:43:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

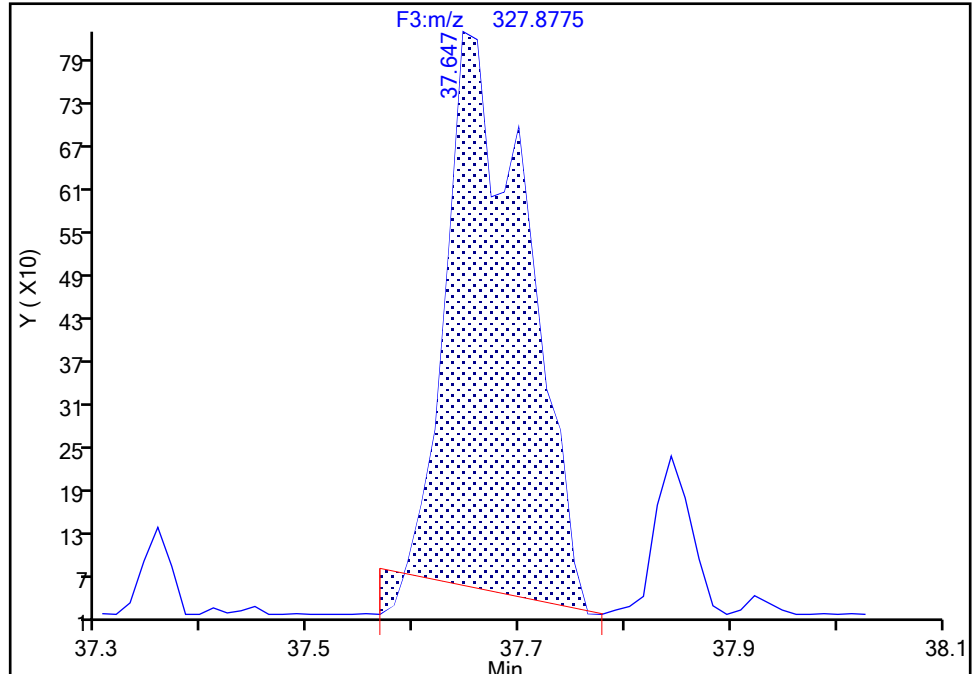
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

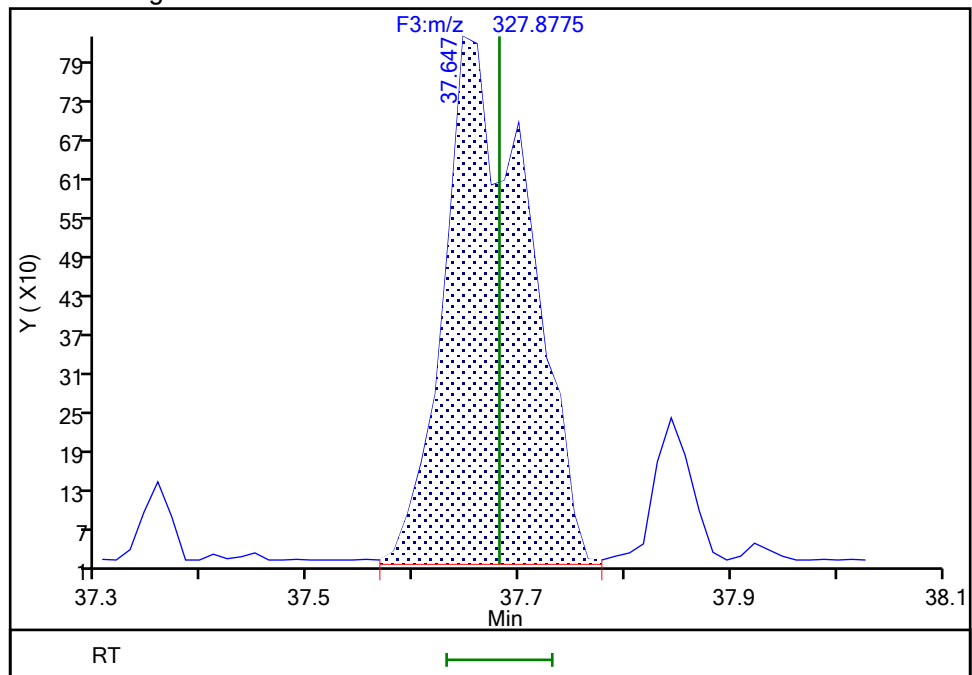
RT: 37.65
Area: 4001
Amount: 0.250626
Amount Units: pg/ul

Processing Integration Results



RT: 37.65
Area: 4474
Amount: 0.258853
Amount Units: pg/ul

Manual Integration Results



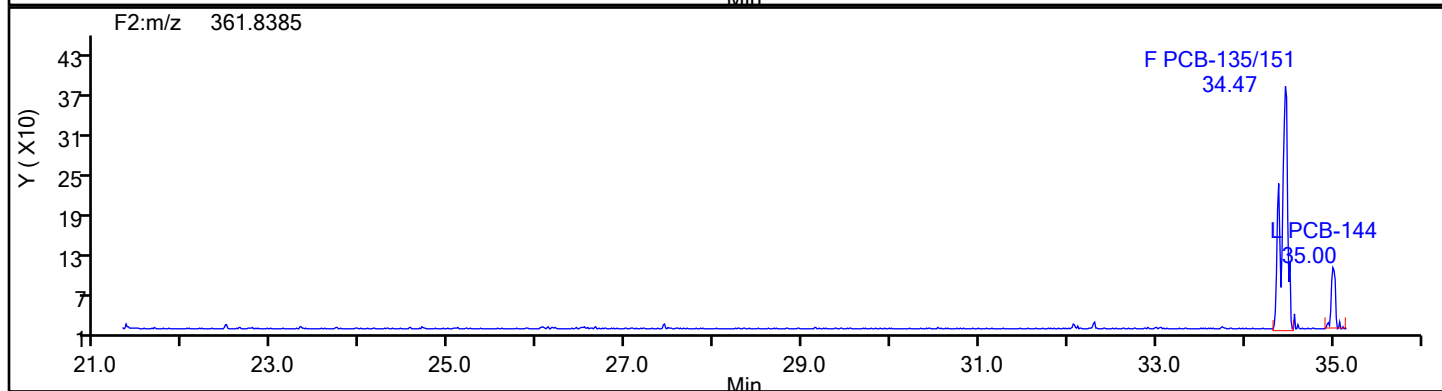
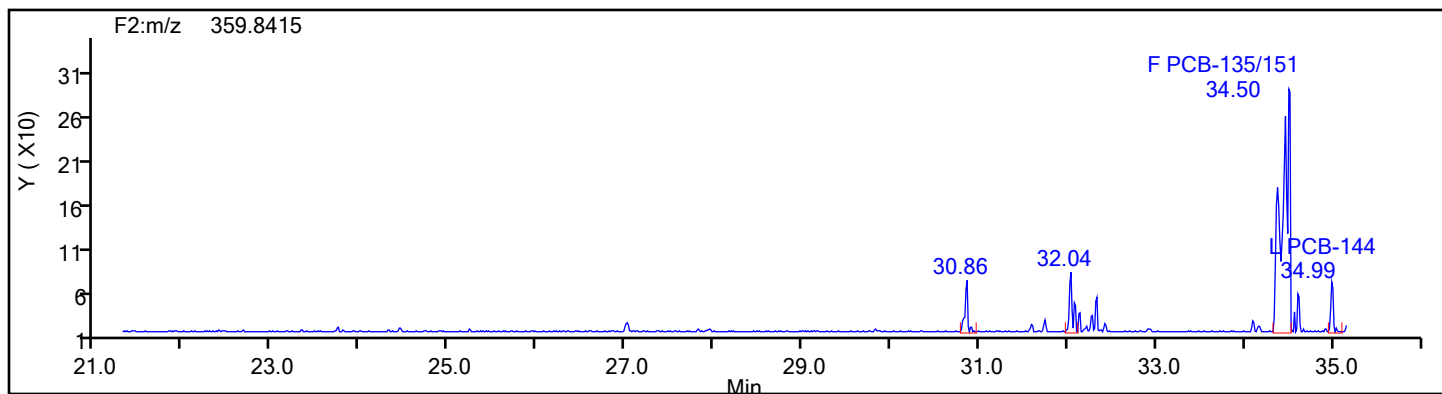
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Audit Action: Manually Integrated

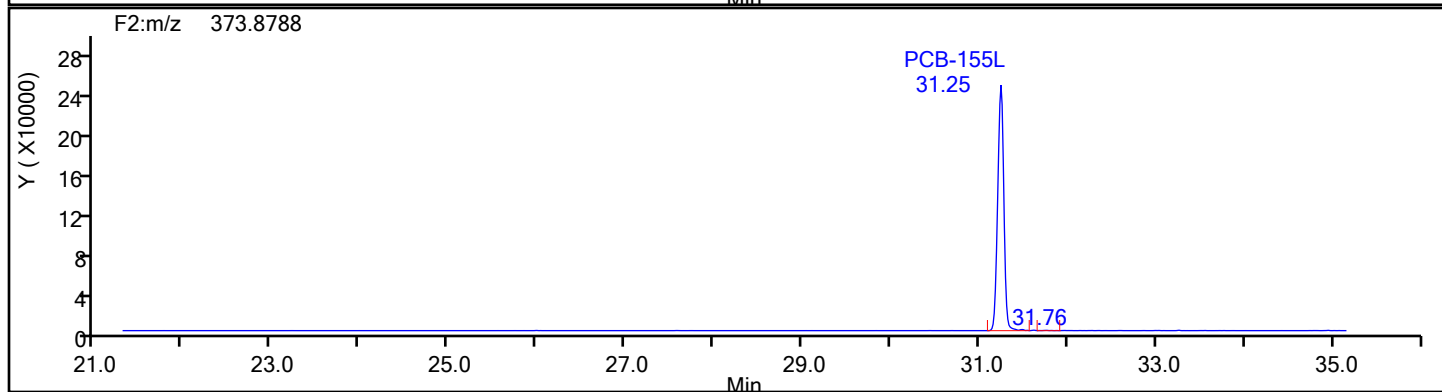
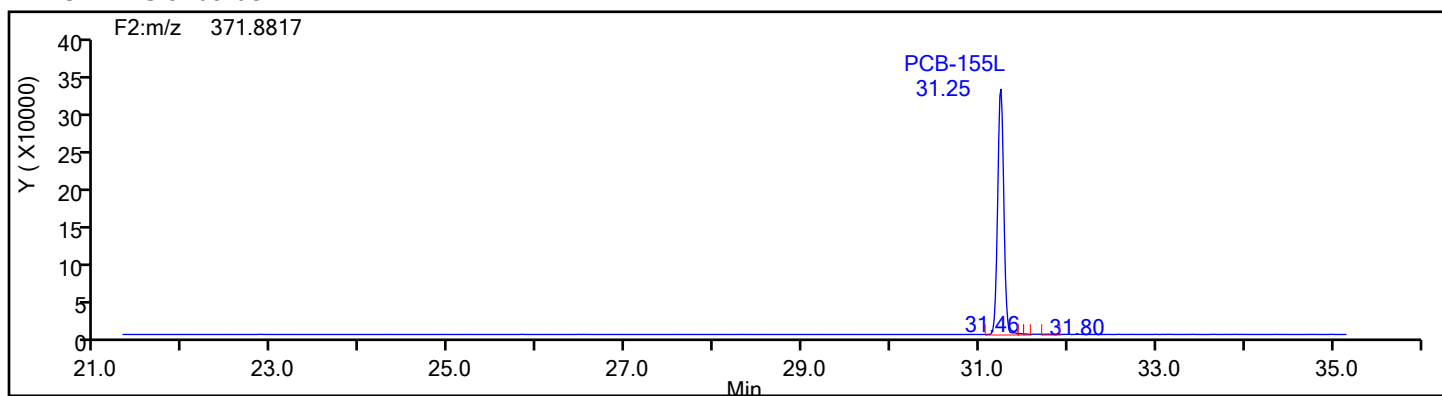
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

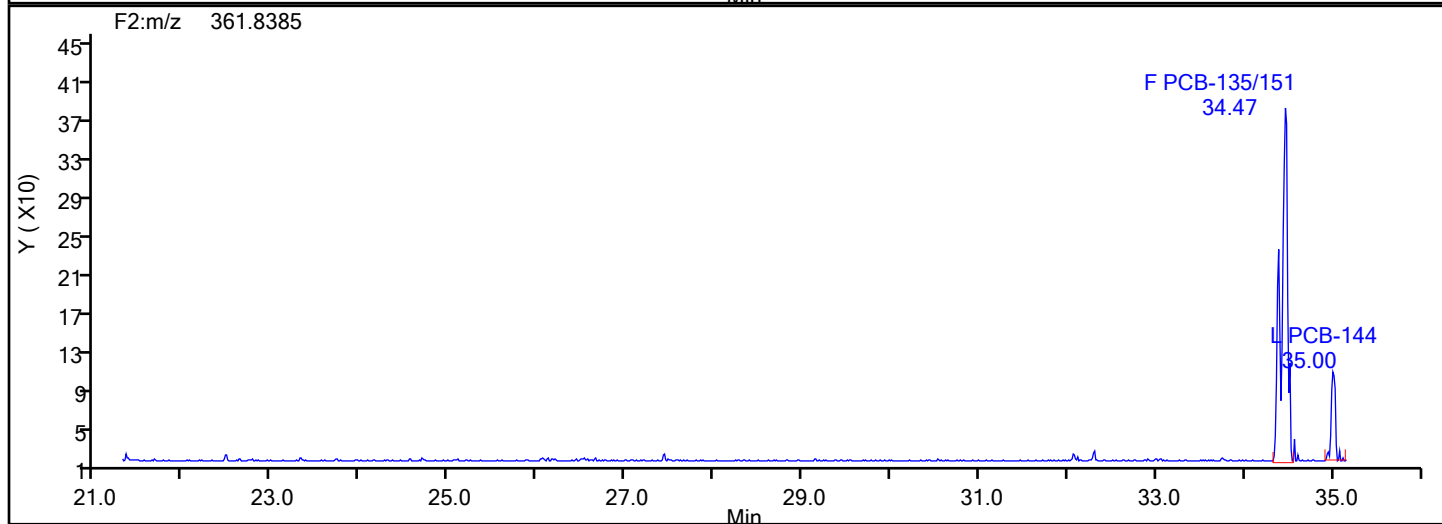
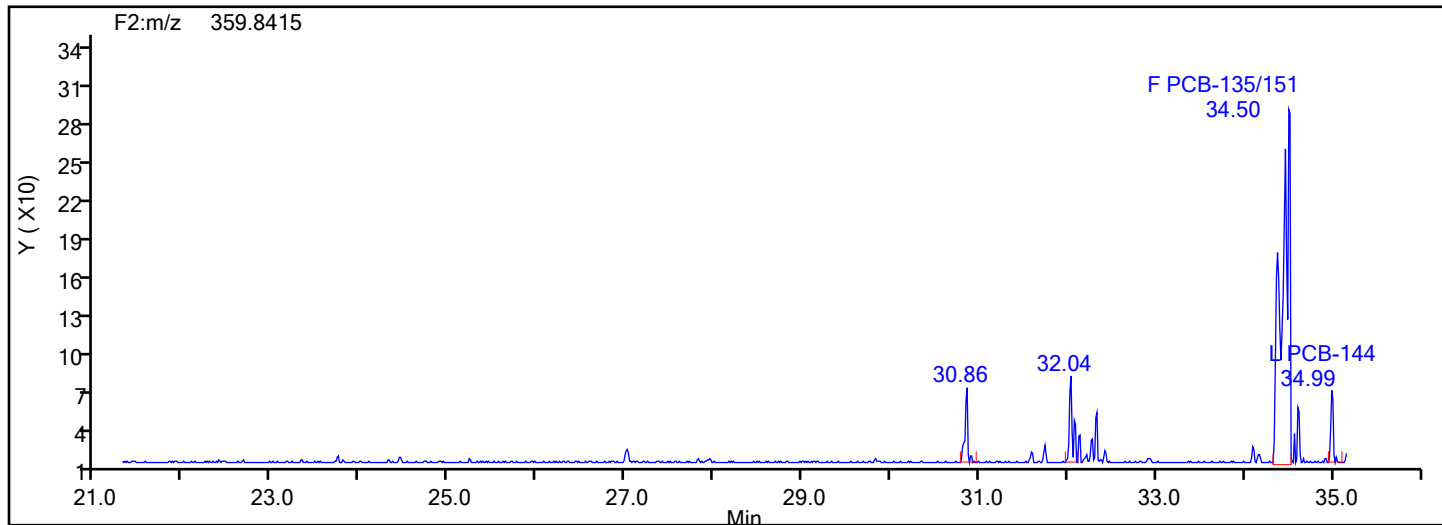


HxPCB F2 Standards

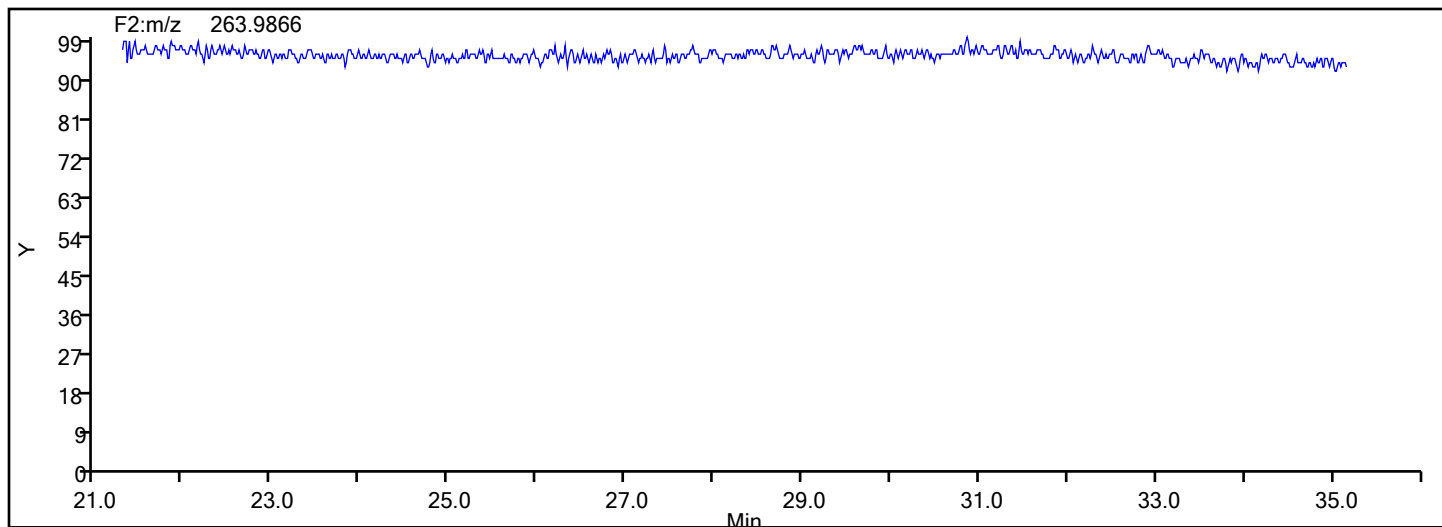


Eurofins Knoxville

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Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

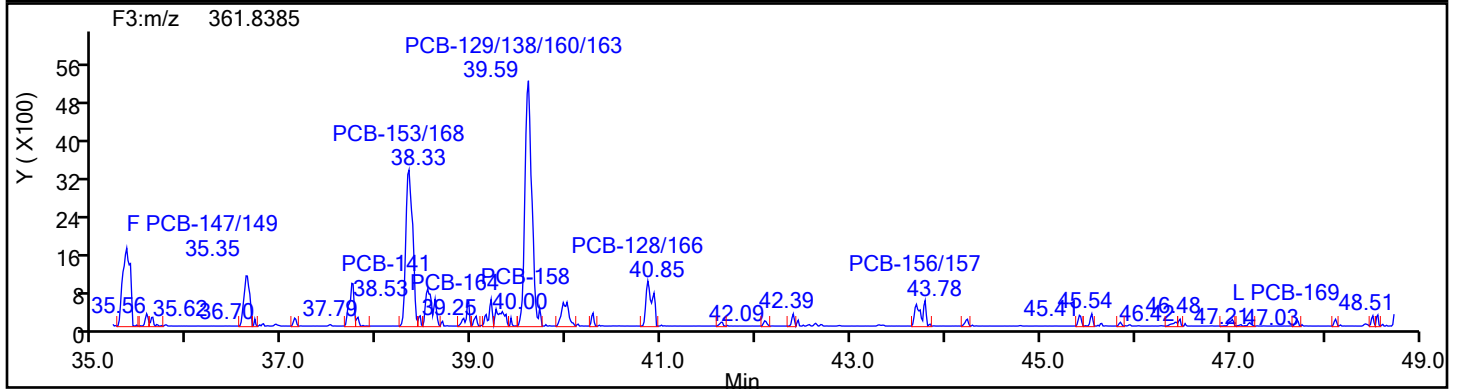
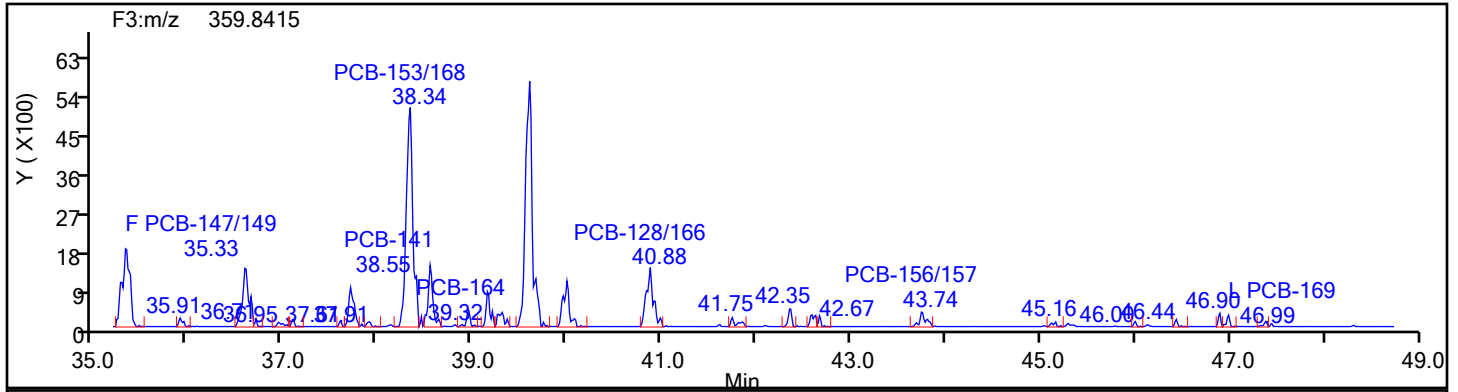


HxPCB F2 Lock Mass

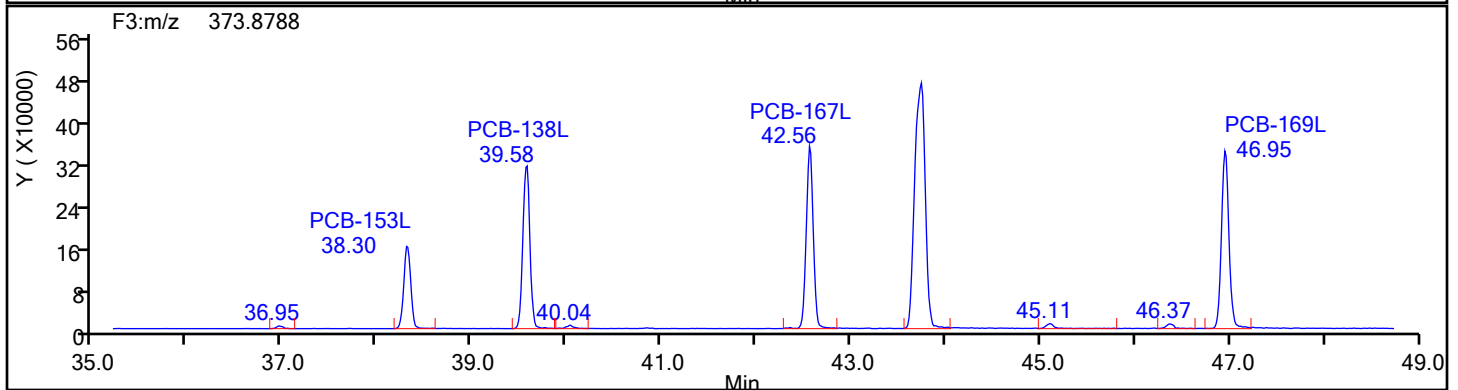
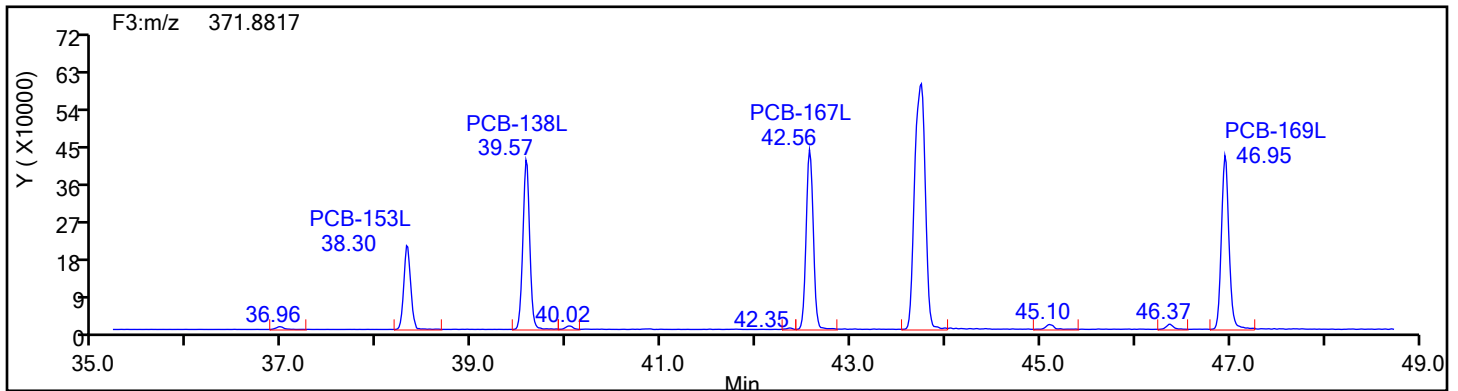


Eurofins Knoxville

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Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

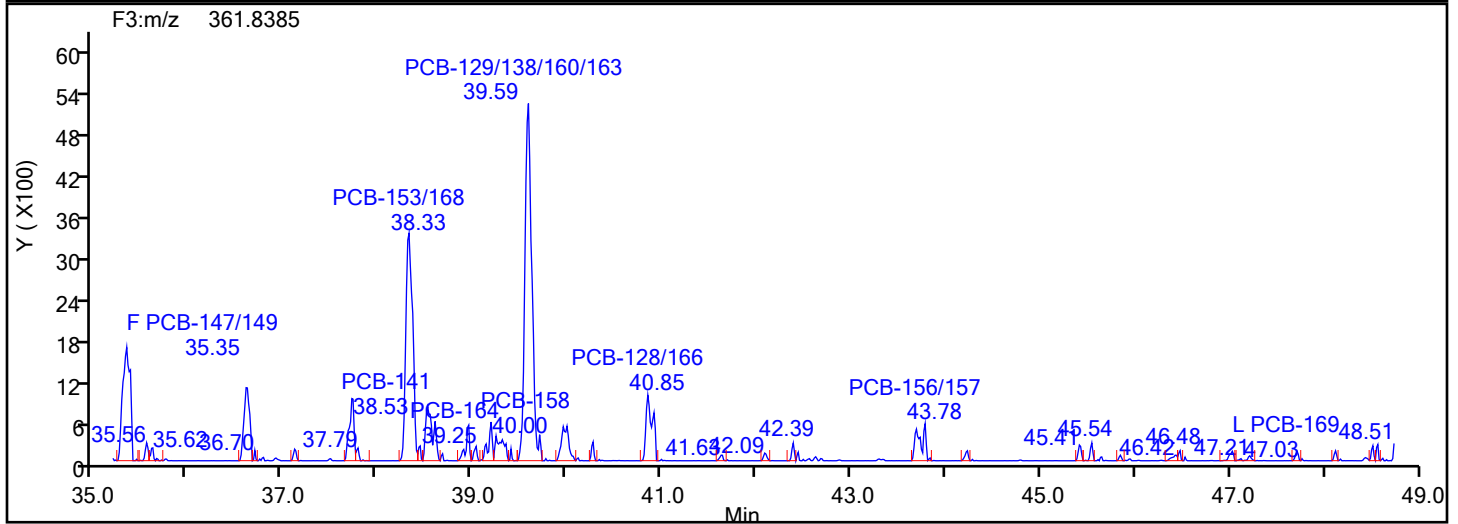
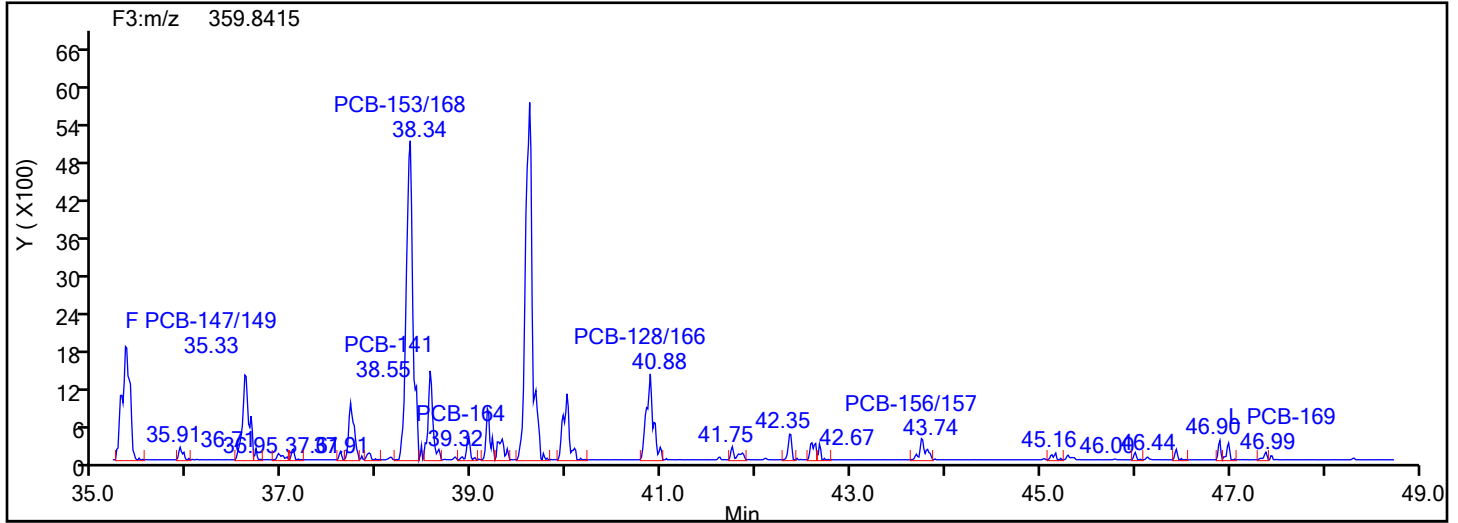


HxPCB F3 Standards

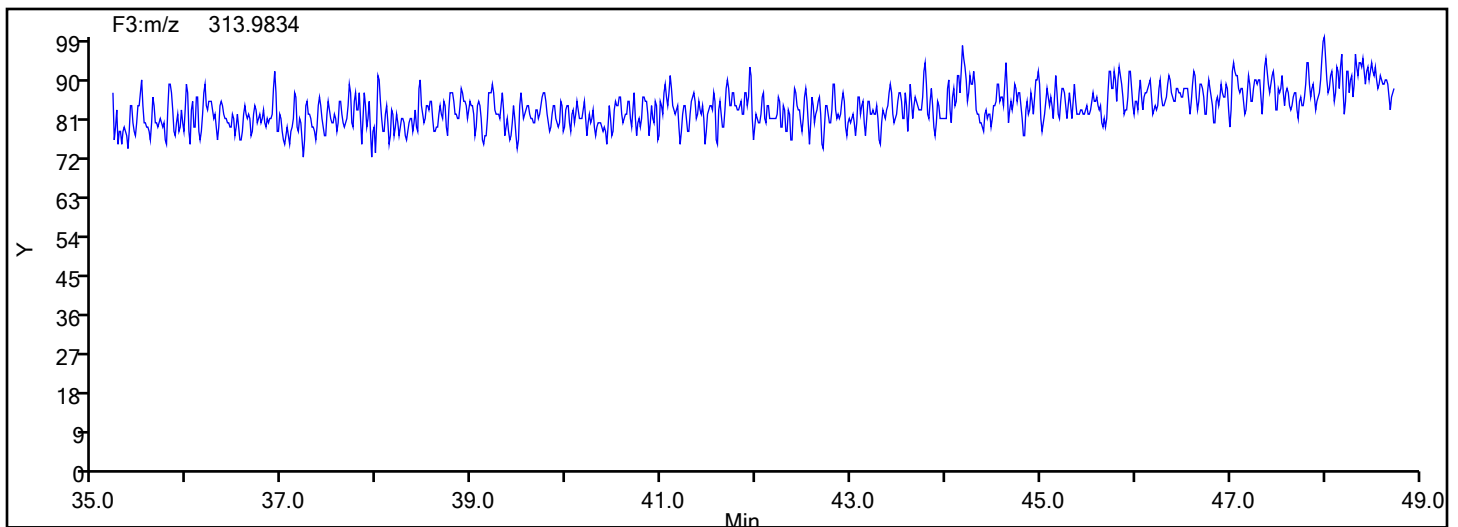


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

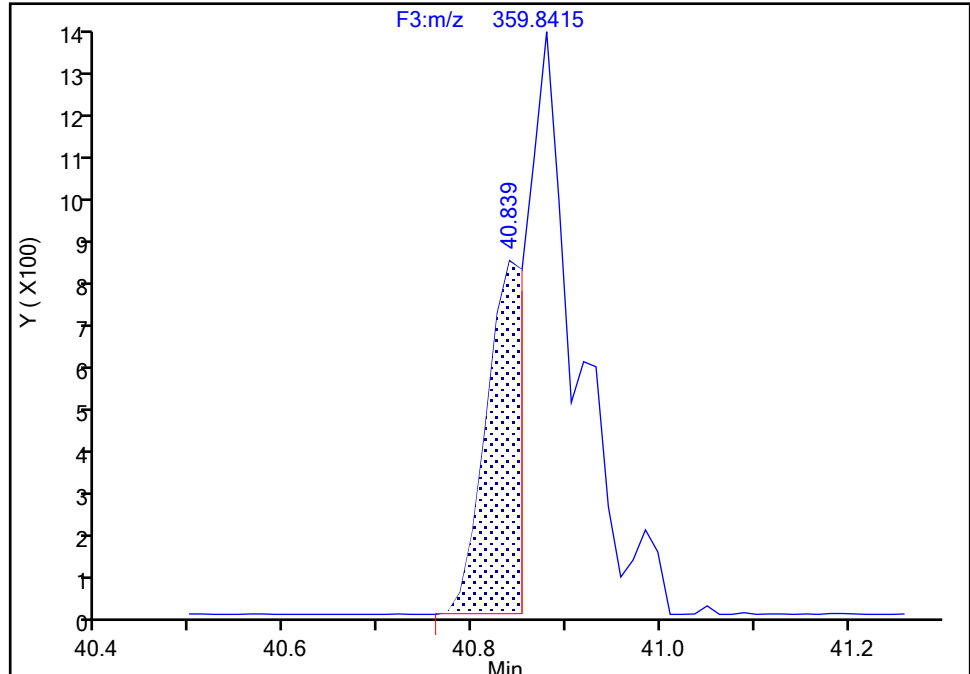
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

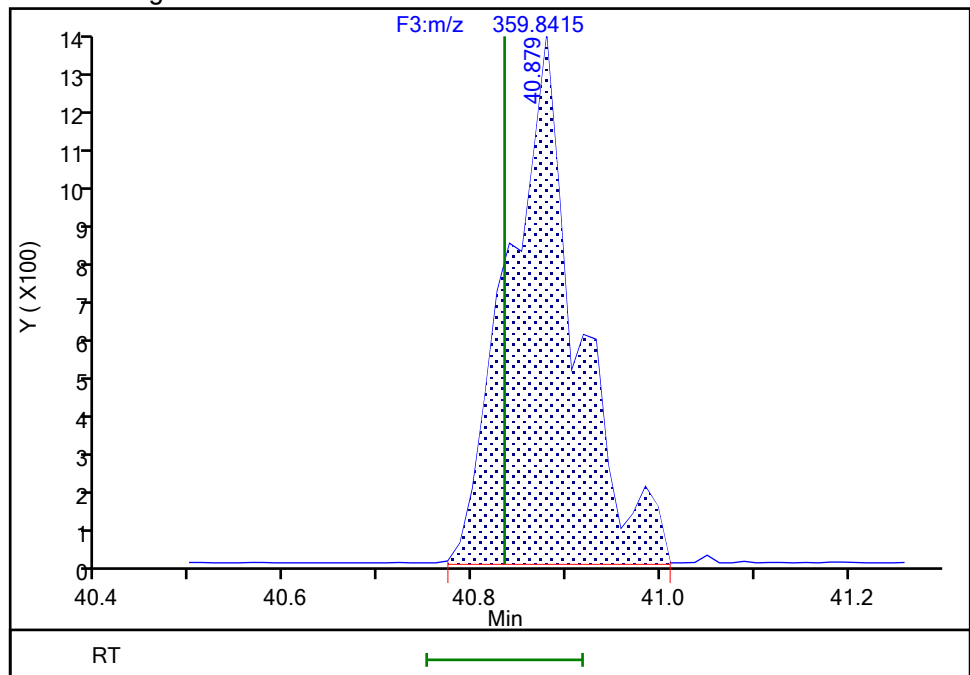
RT: 40.84
Area: 2076
Amount: 0.123823
Amount Units: pg/ul

Processing Integration Results



RT: 40.88
Area: 7073
Amount: 0.283614
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:45:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

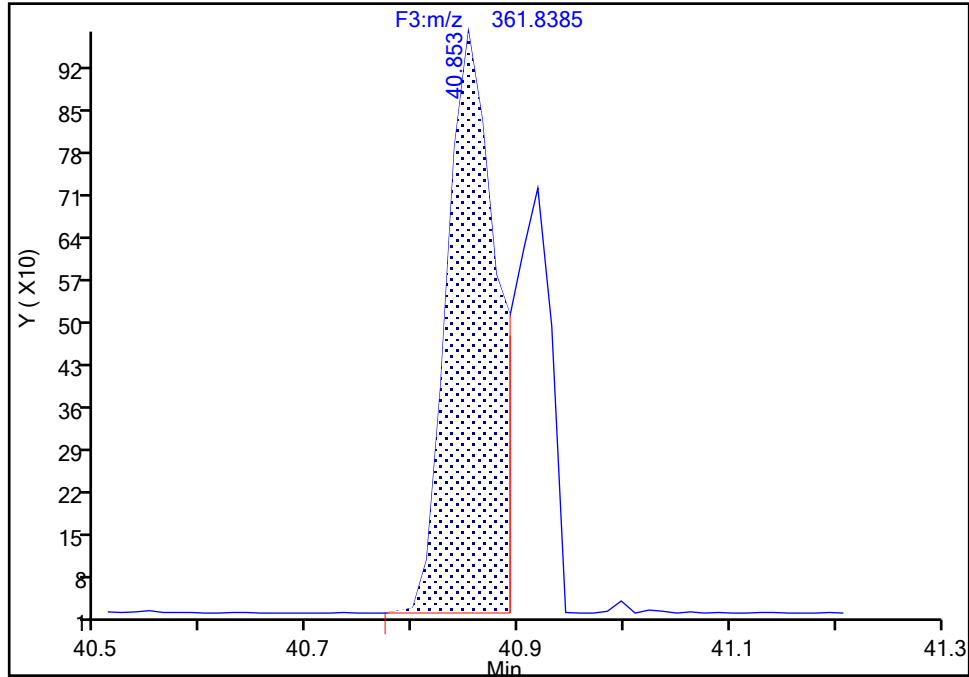
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Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 2

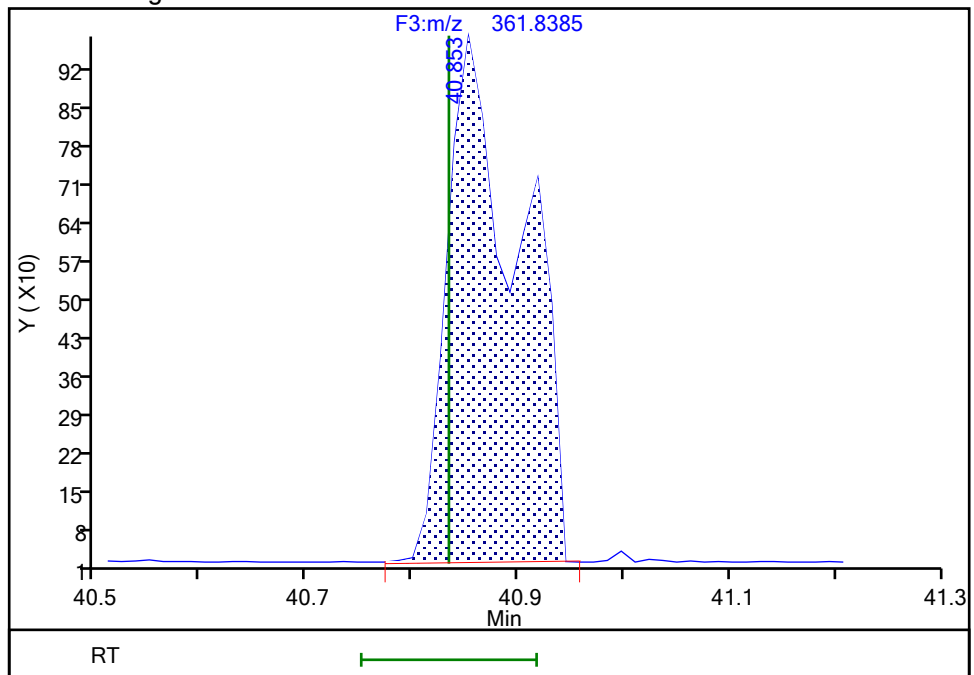
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Area: 3026
Amount: 0.123823
Amount Units: pg/ul

Processing Integration Results



RT: 40.85
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Amount: 0.283614
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:45:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1143 of 3050

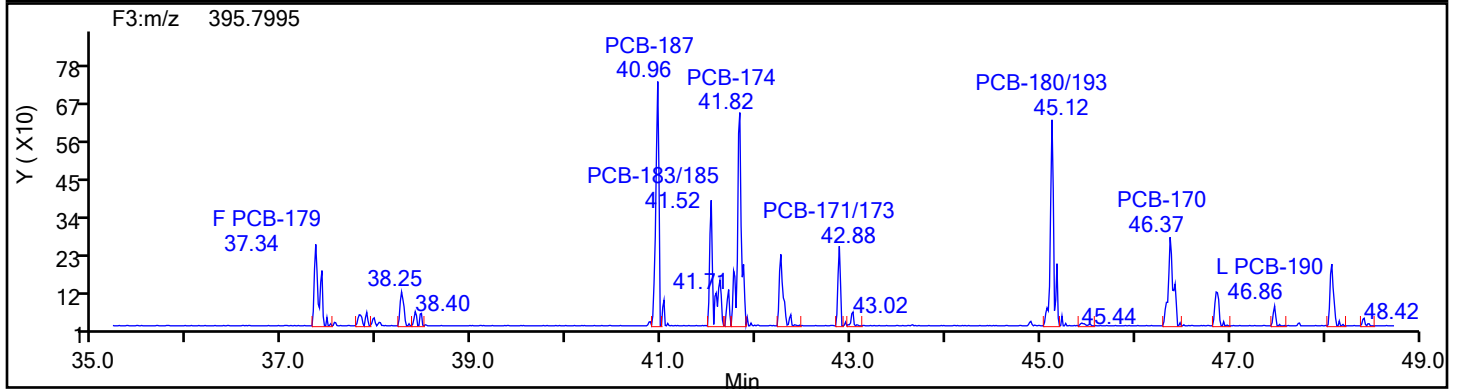
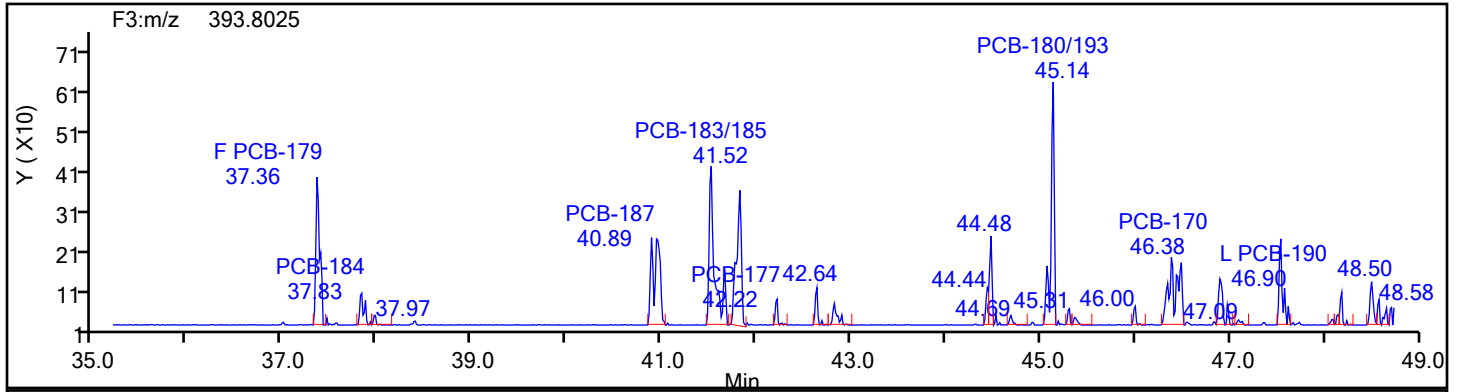
BASFWC-McIntosh-009144

9/6/2024

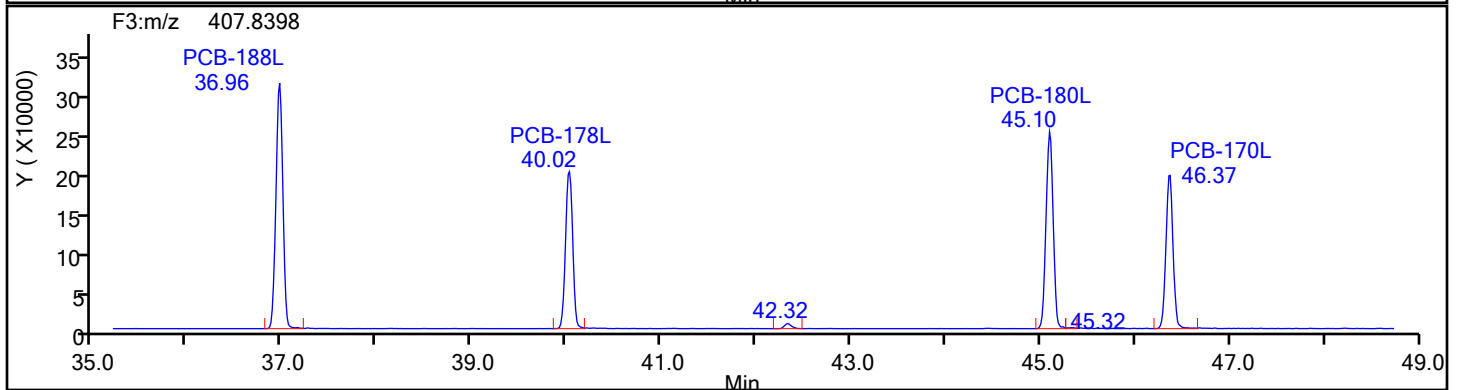
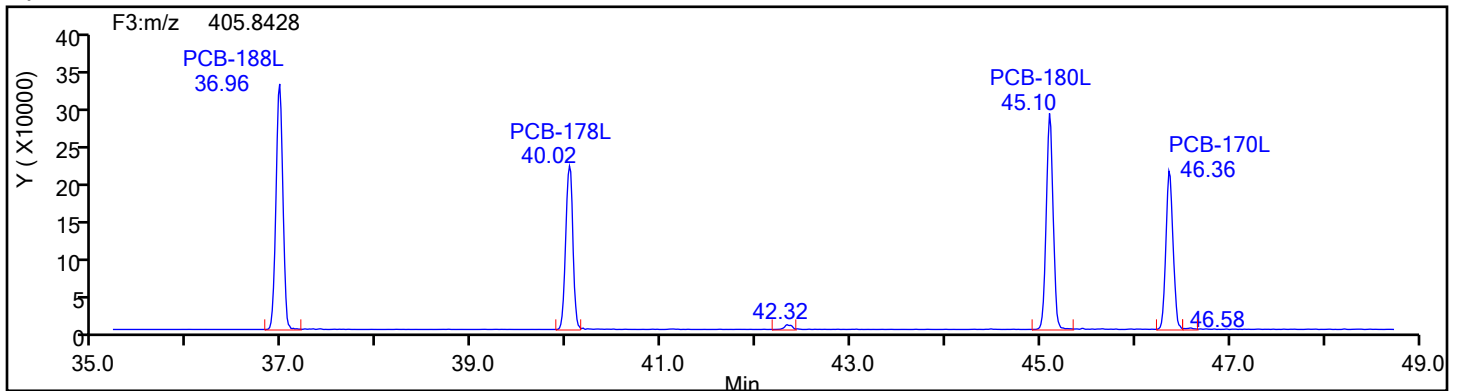
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

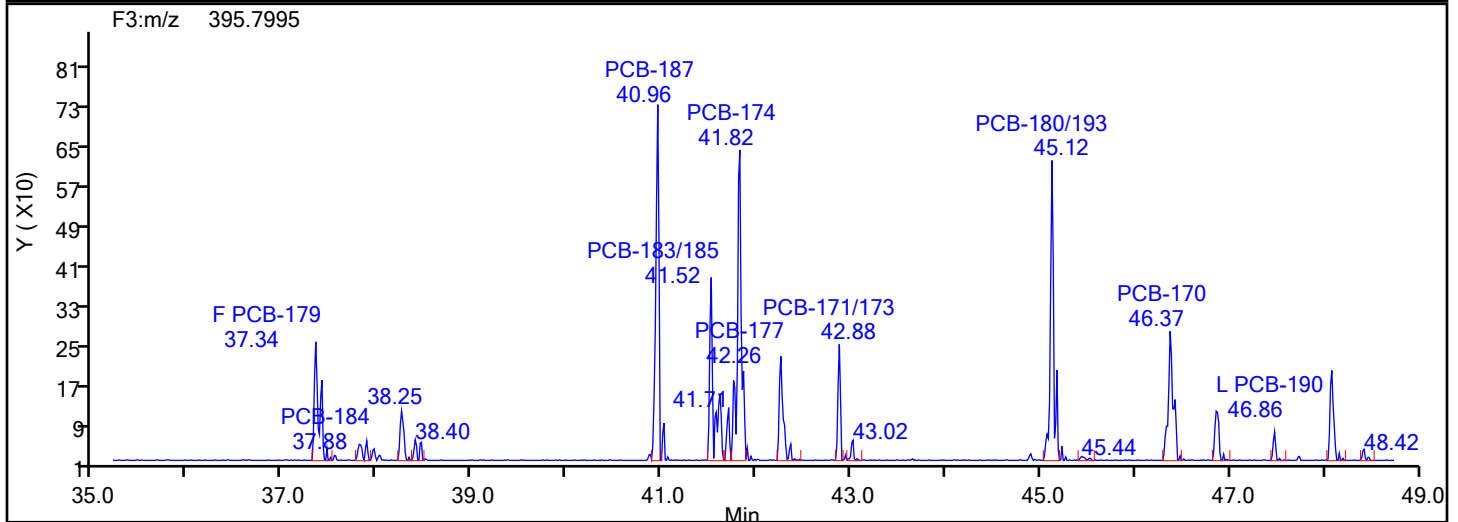
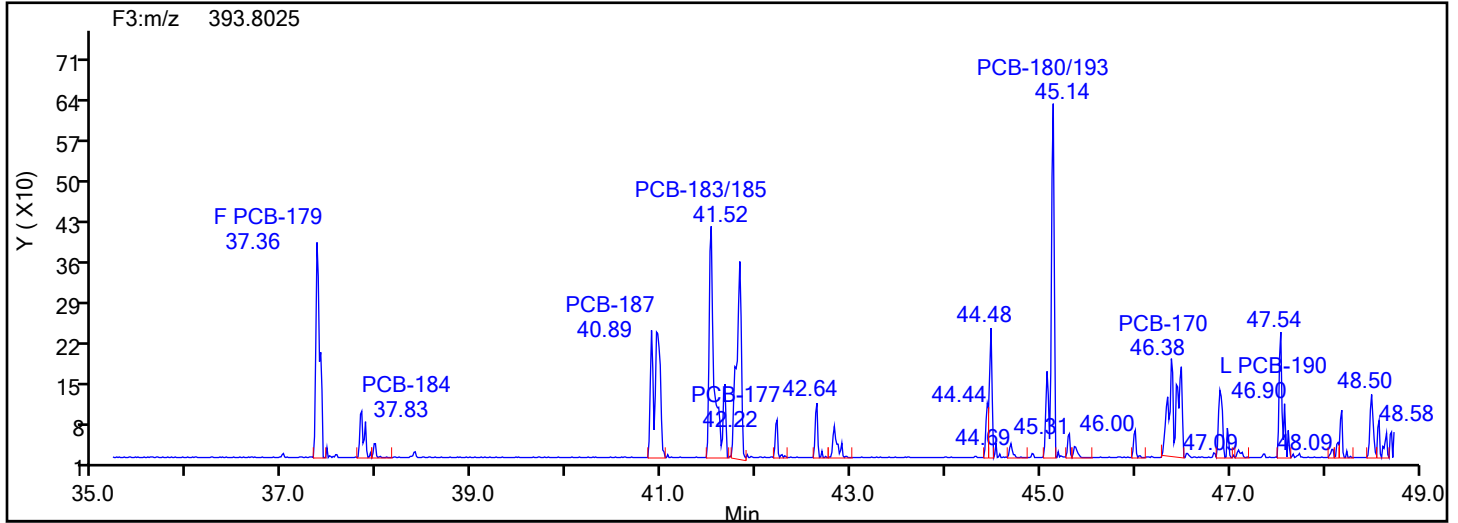


HpPCB F3 Standards

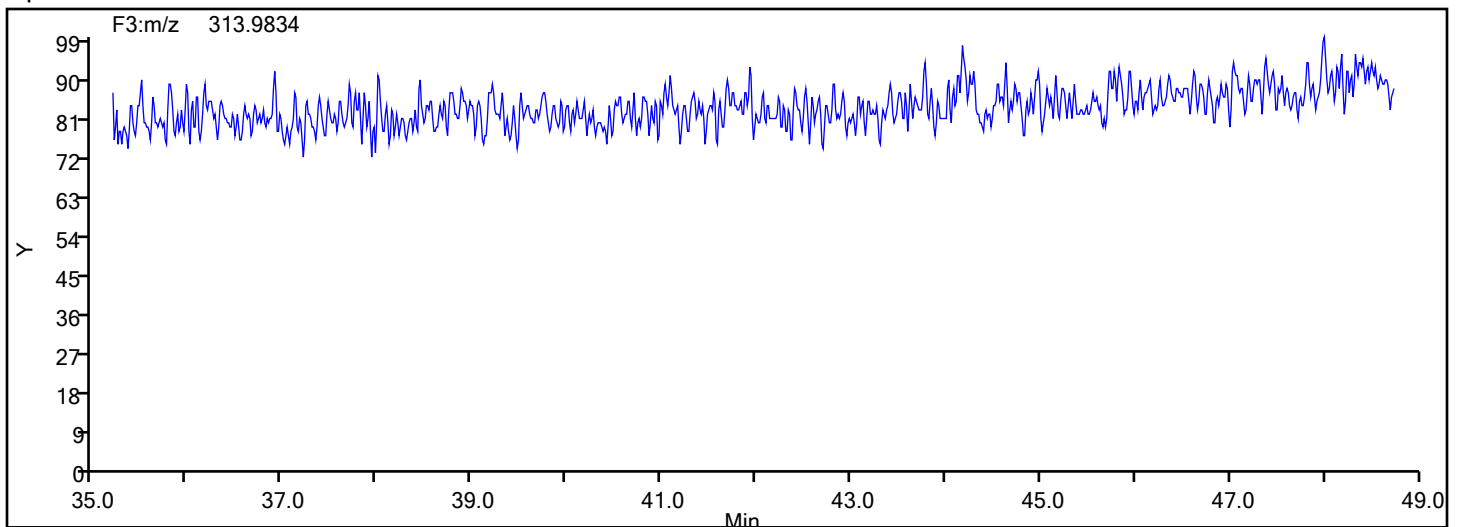


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

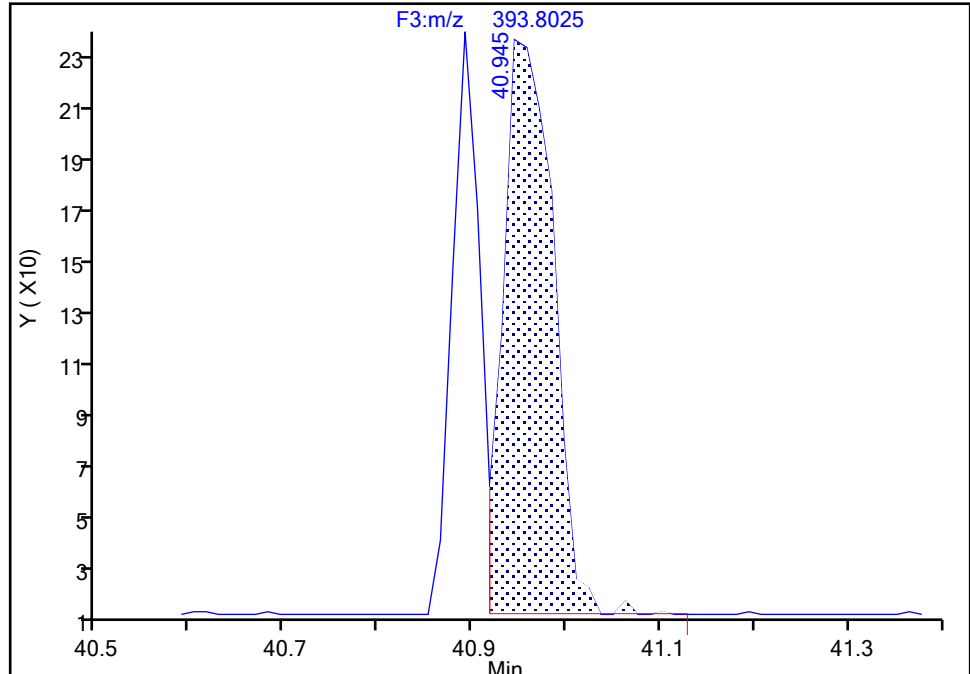
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Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-187, CAS: 52663-68-0

Signal: 1

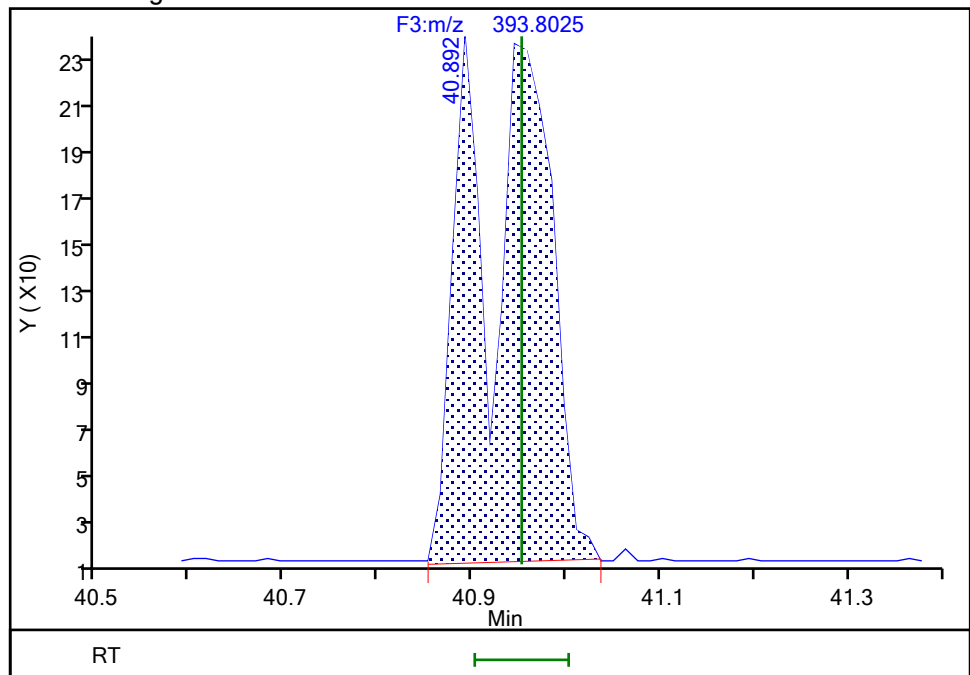
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Amount: 0.081763
Amount Units: pg/ul

Processing Integration Results



RT: 40.89
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Amount: 0.096451
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:46:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

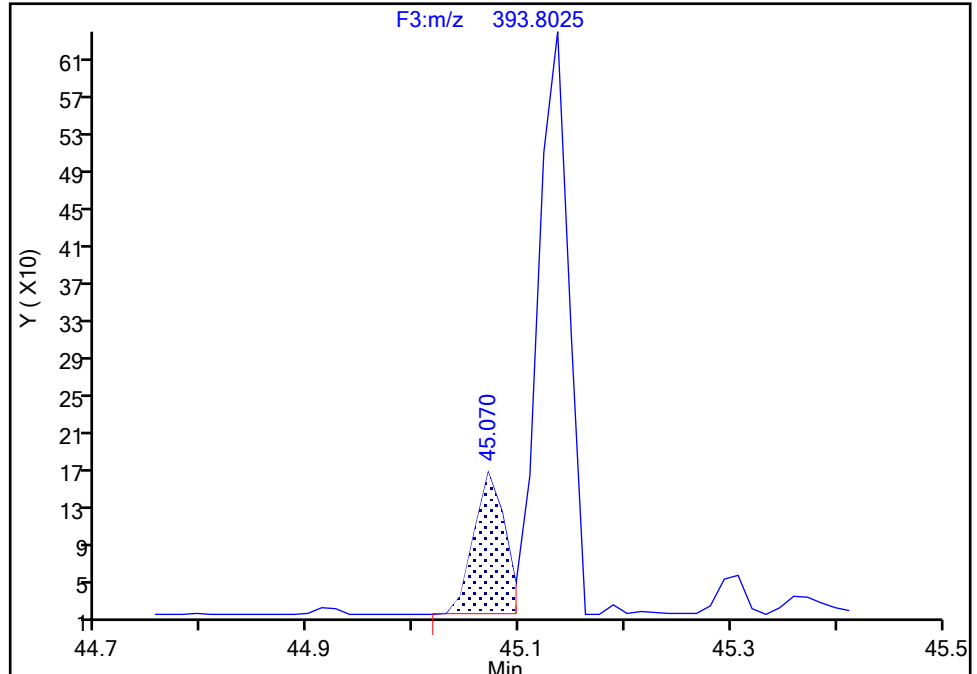
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Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

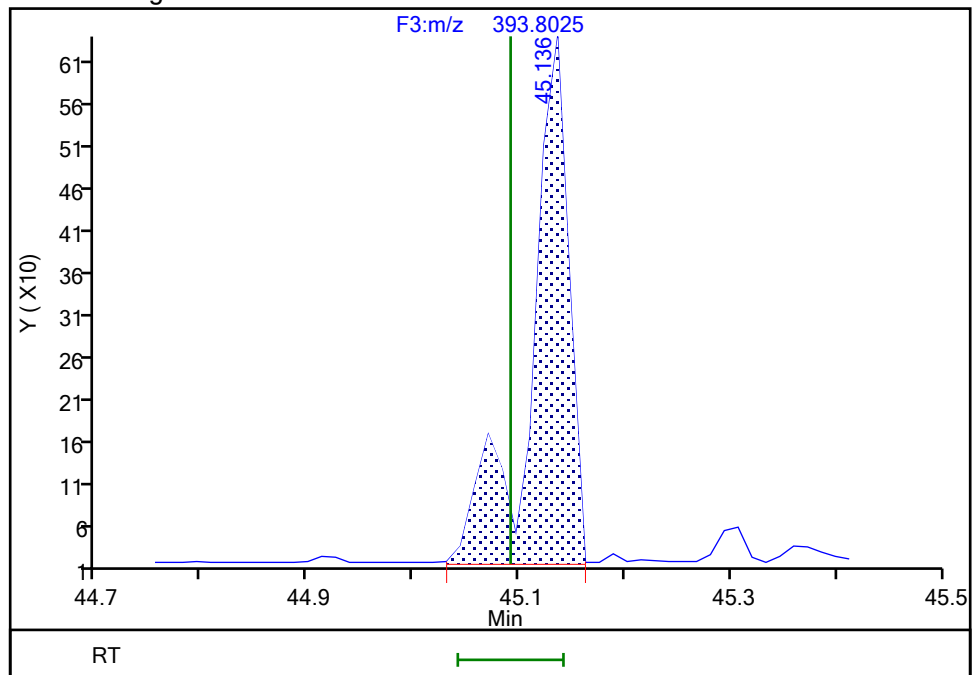
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Area: 299
Amount: 0.013477
Amount Units: pg/ul

Processing Integration Results



RT: 45.14
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Amount: 0.097949
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:47:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

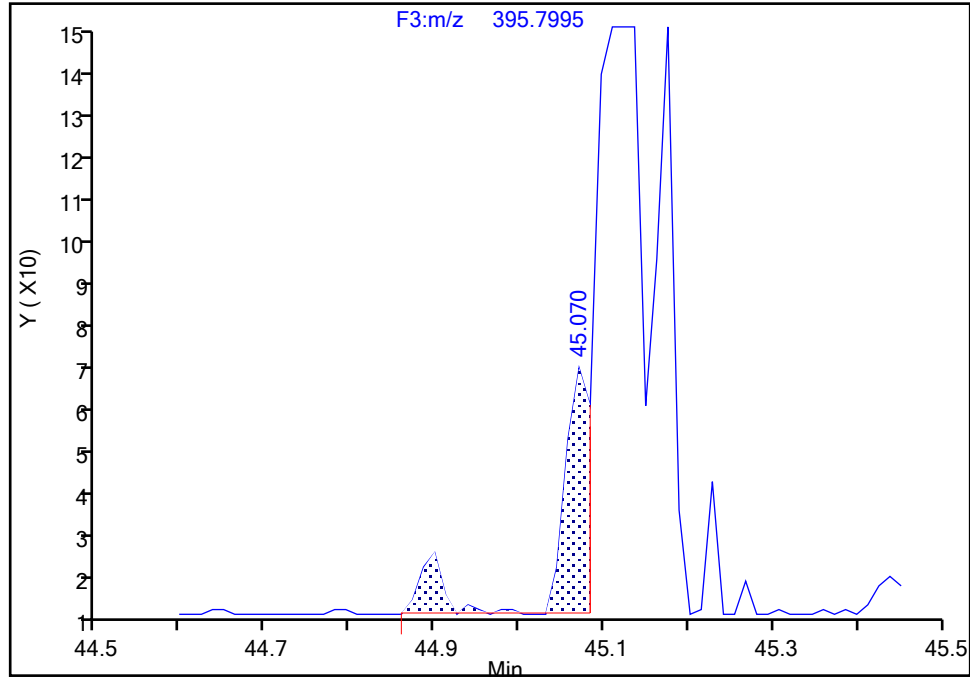
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Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 2

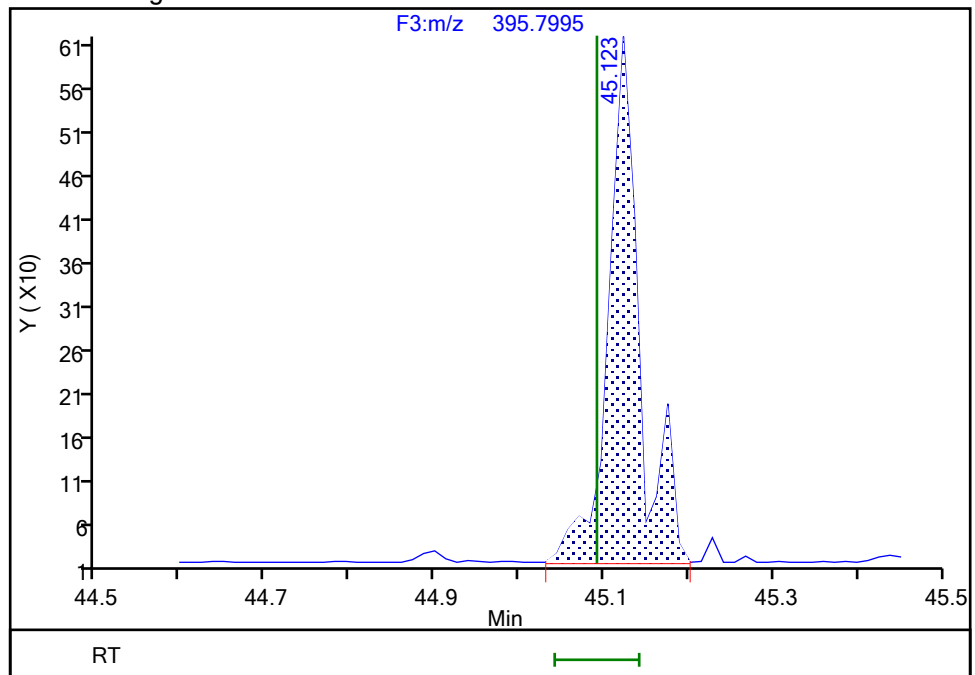
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Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:47:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1148 of 3050

BASFWHC-McIntosh-009149

9/6/2024

4:11:20 PM

Eurofins Knoxville

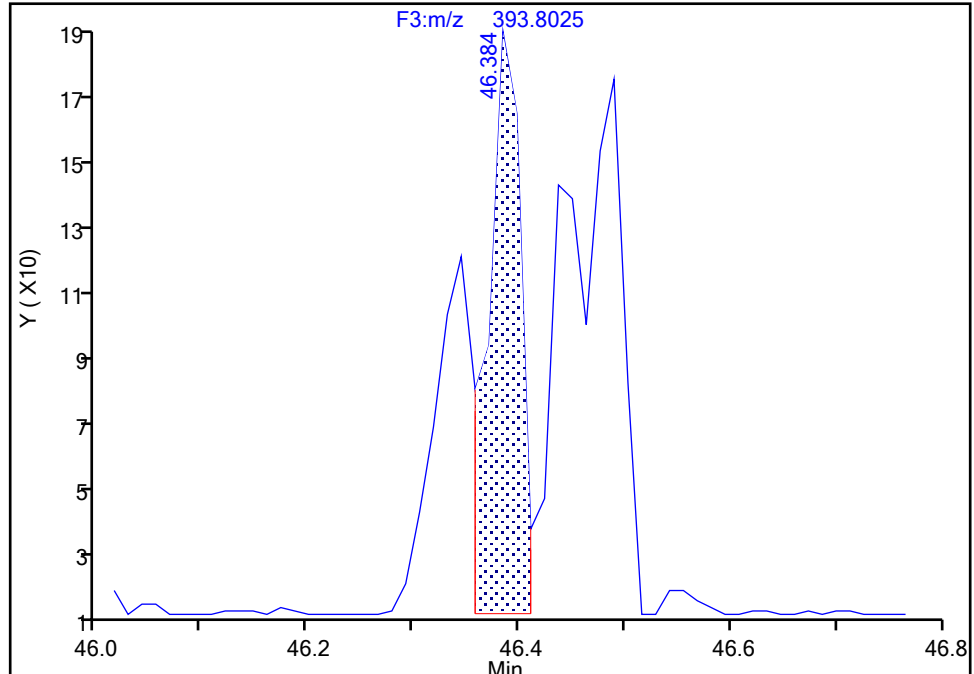
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Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

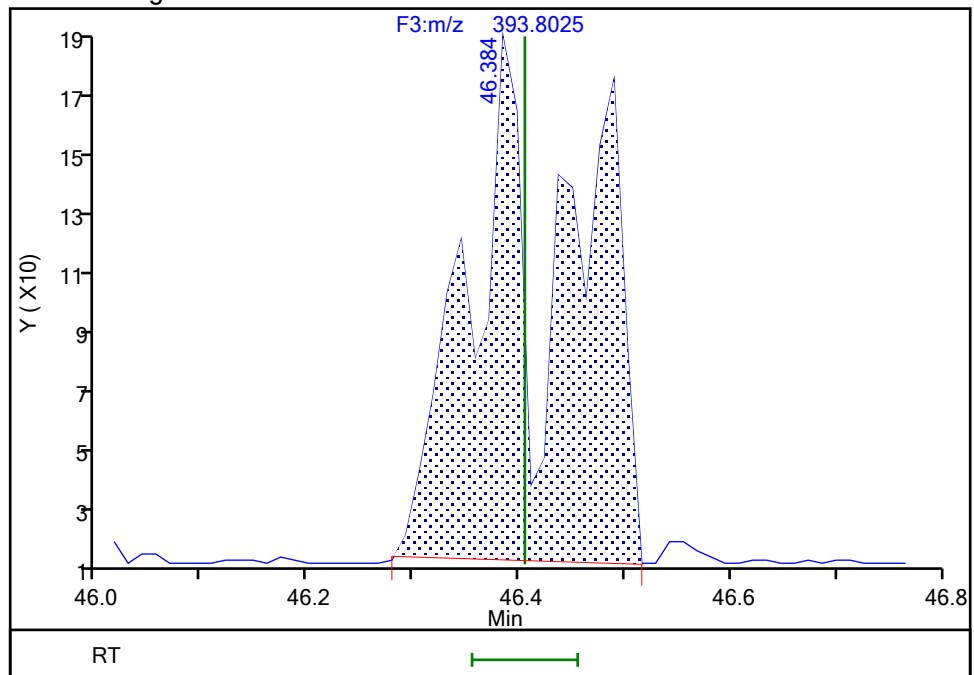
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Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



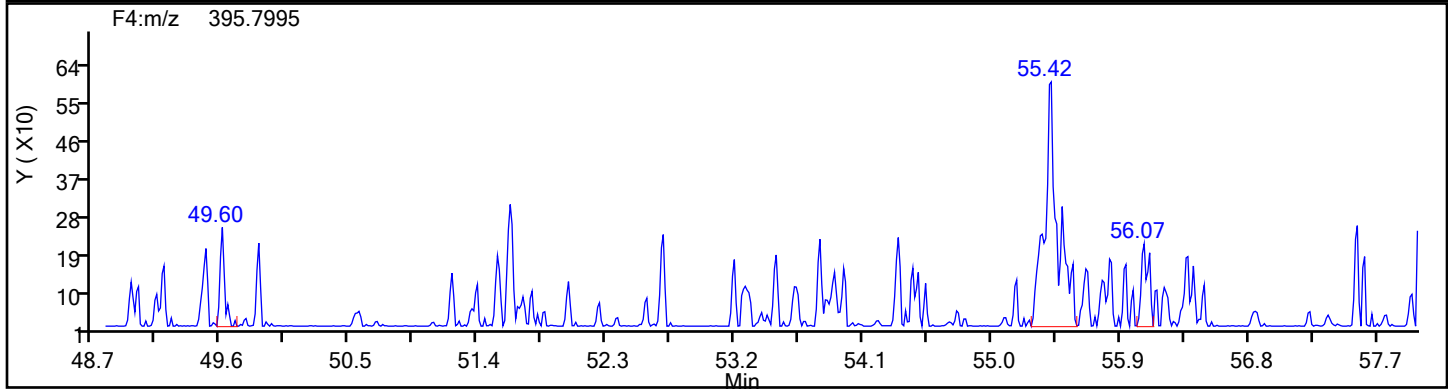
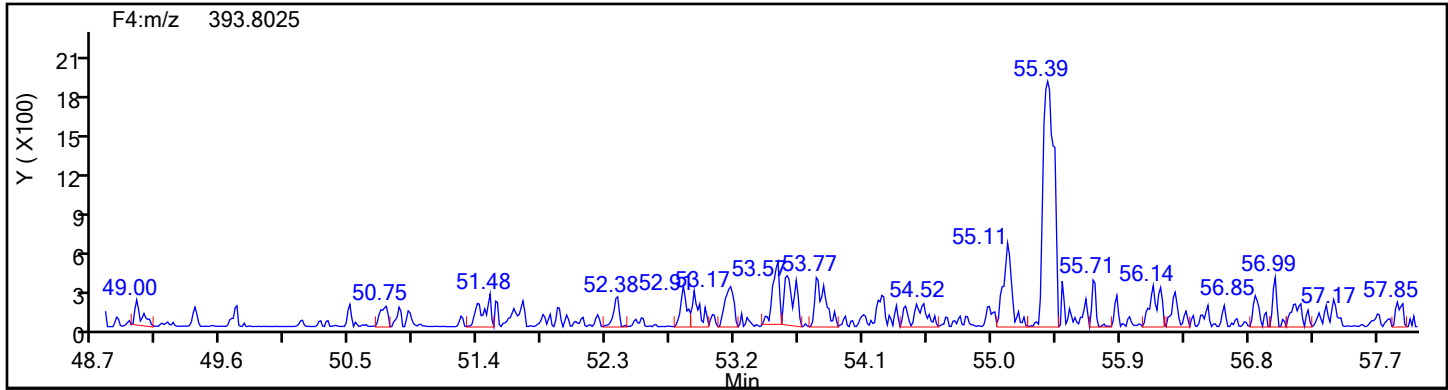
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Audit Action: Manually Integrated

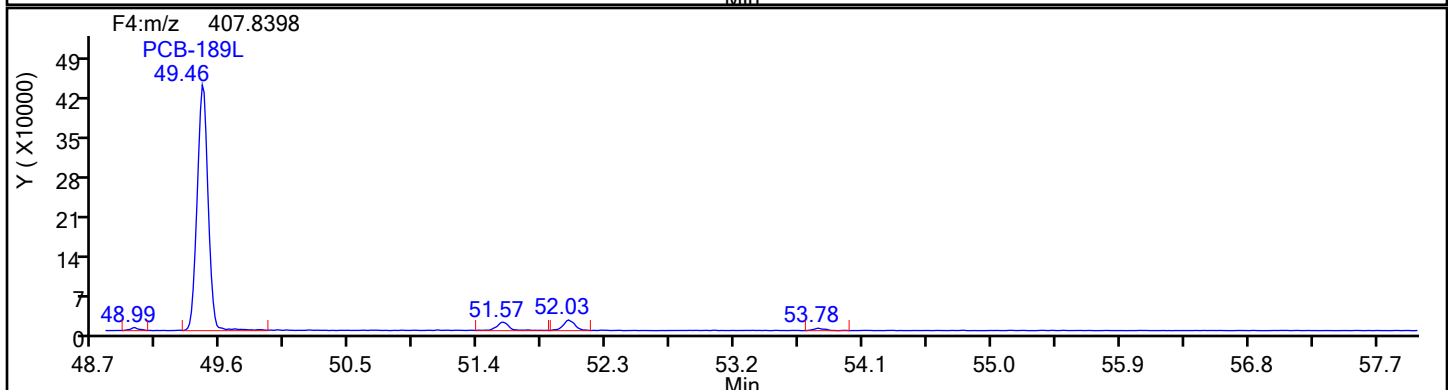
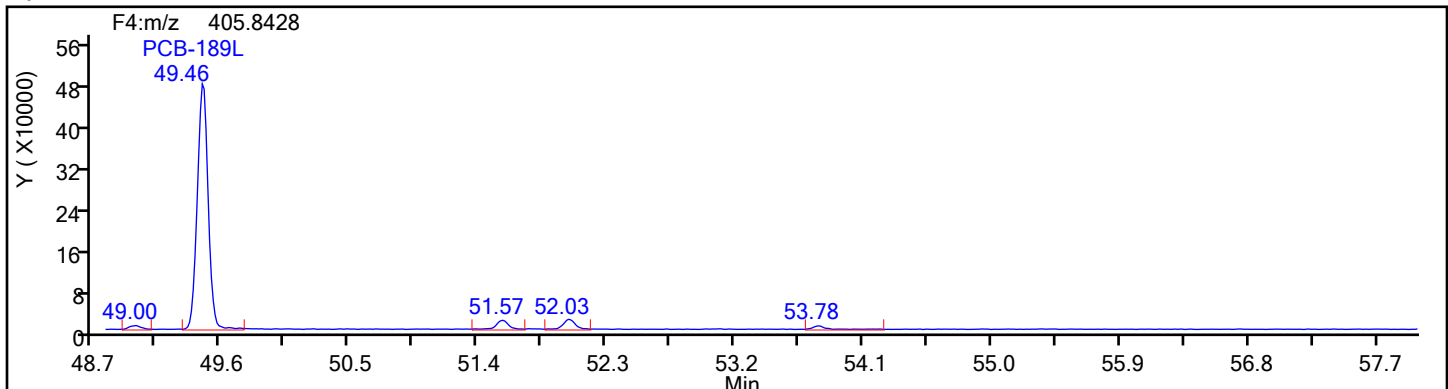
Audit Reason: Baseline

Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

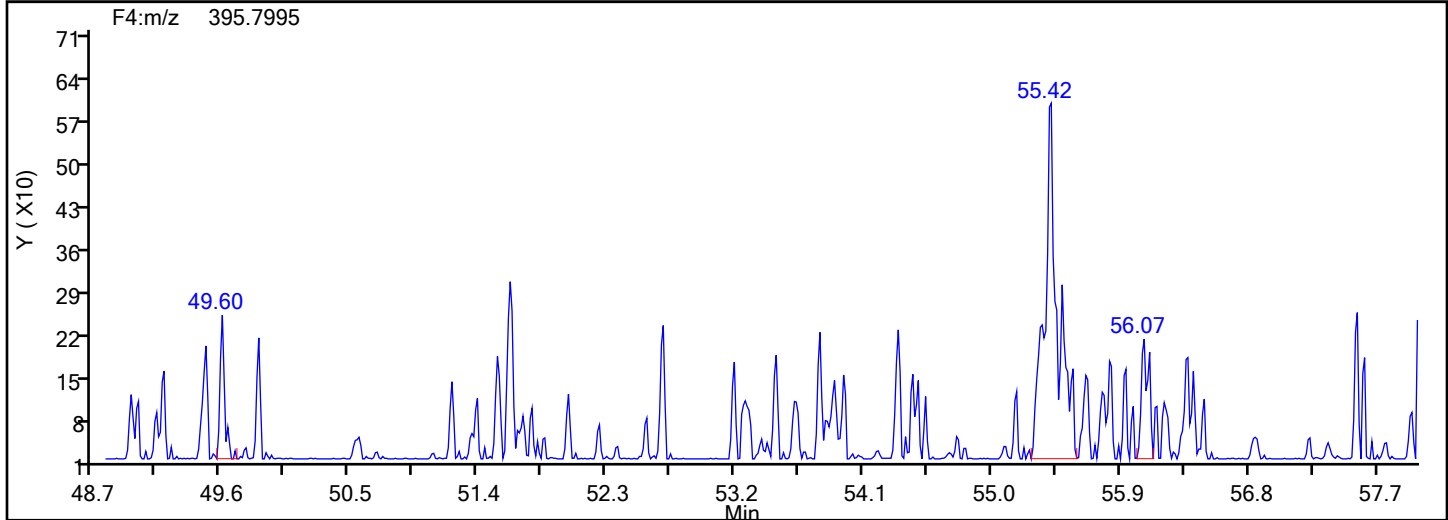
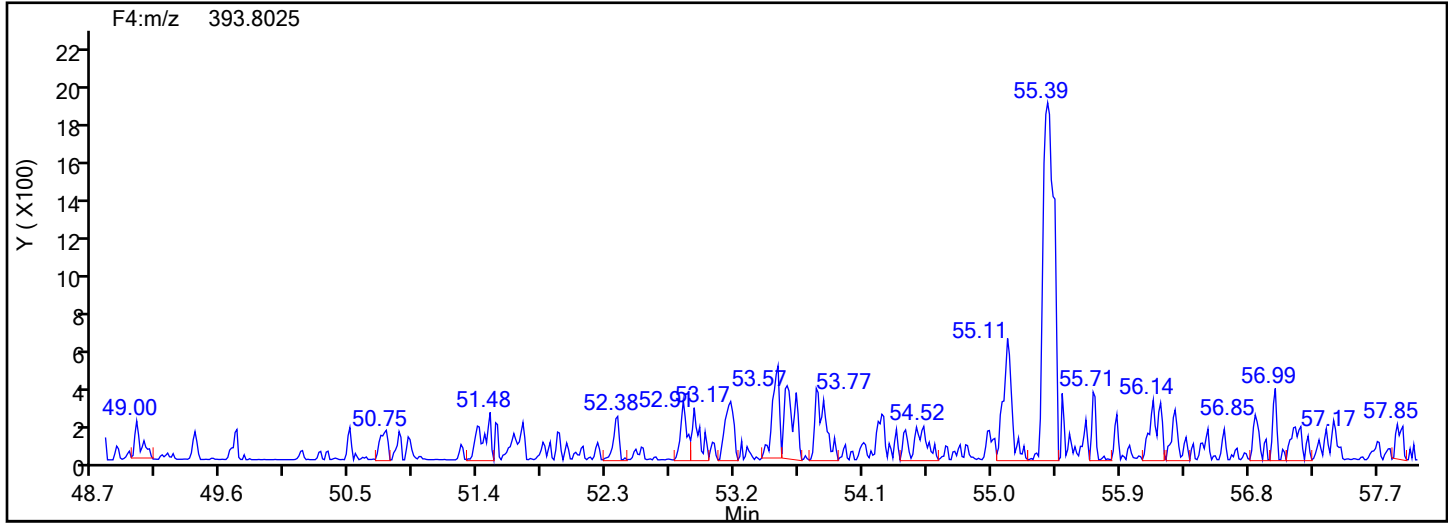


HpPCB F4 Standards

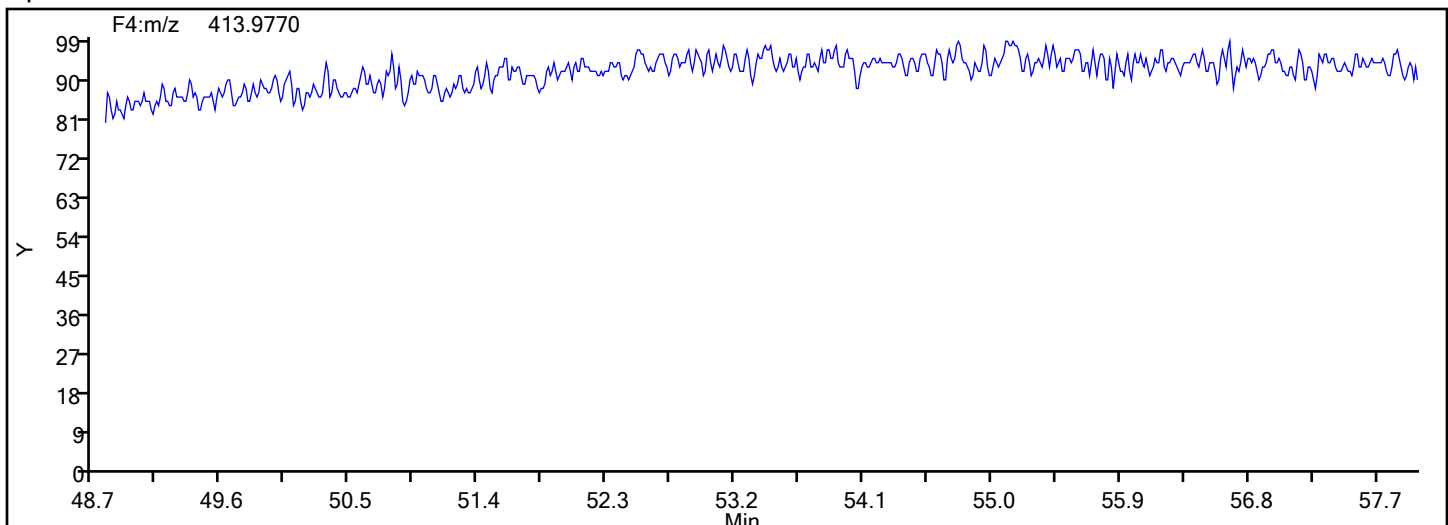


Eurofins Knoxville

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HpPCB F4

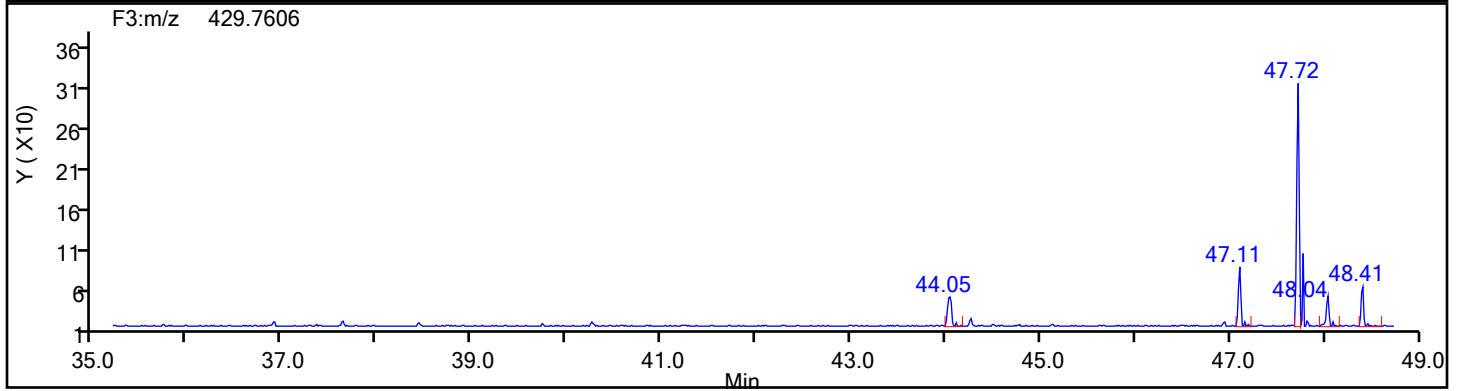
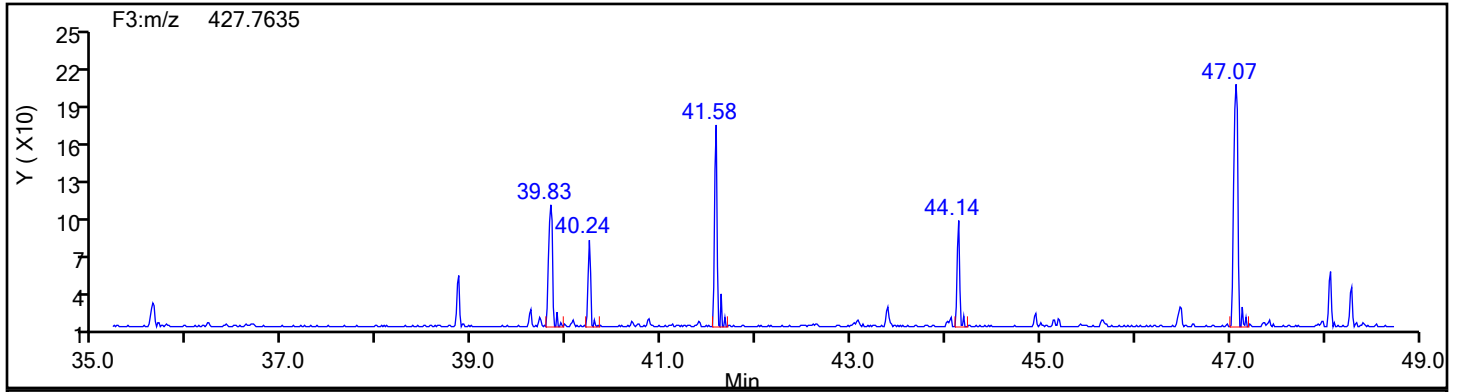


HpPCB F4 Lock Mass

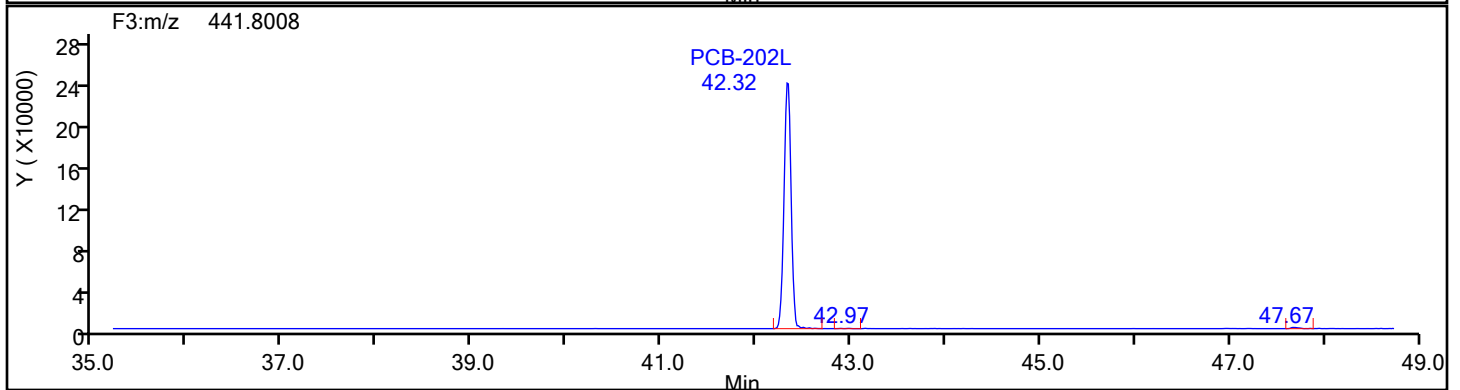
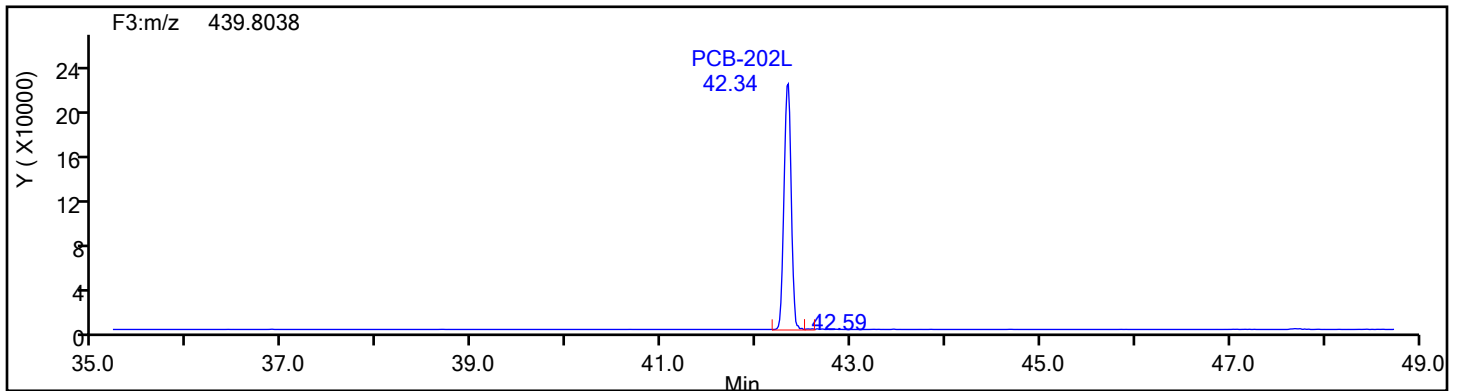


Eurofins Knoxville

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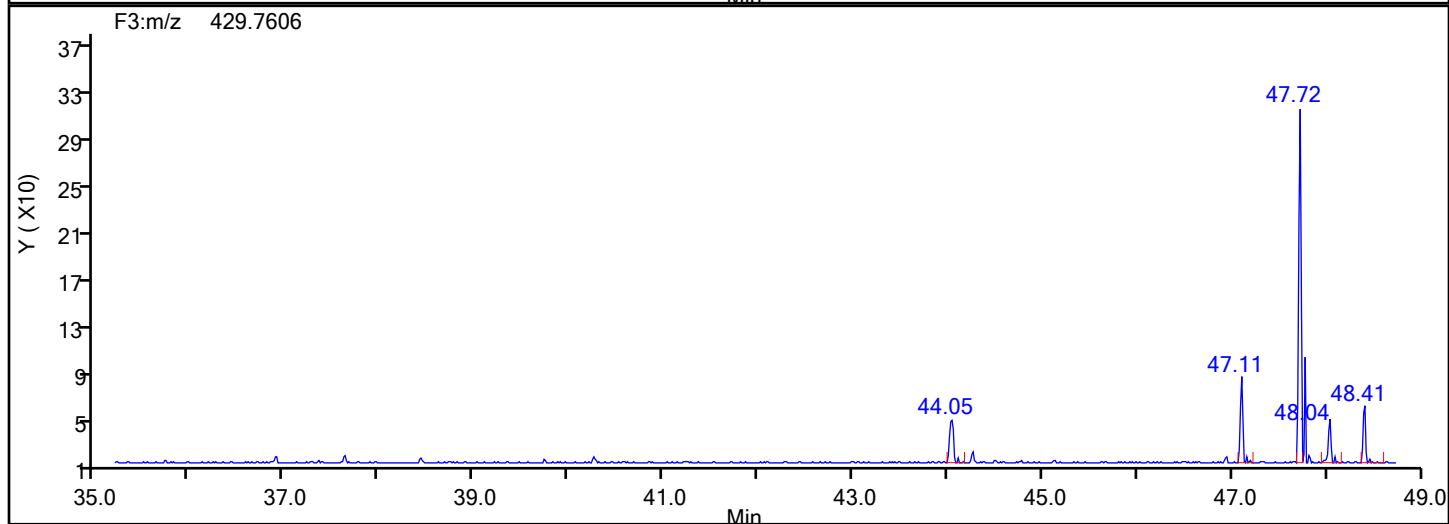
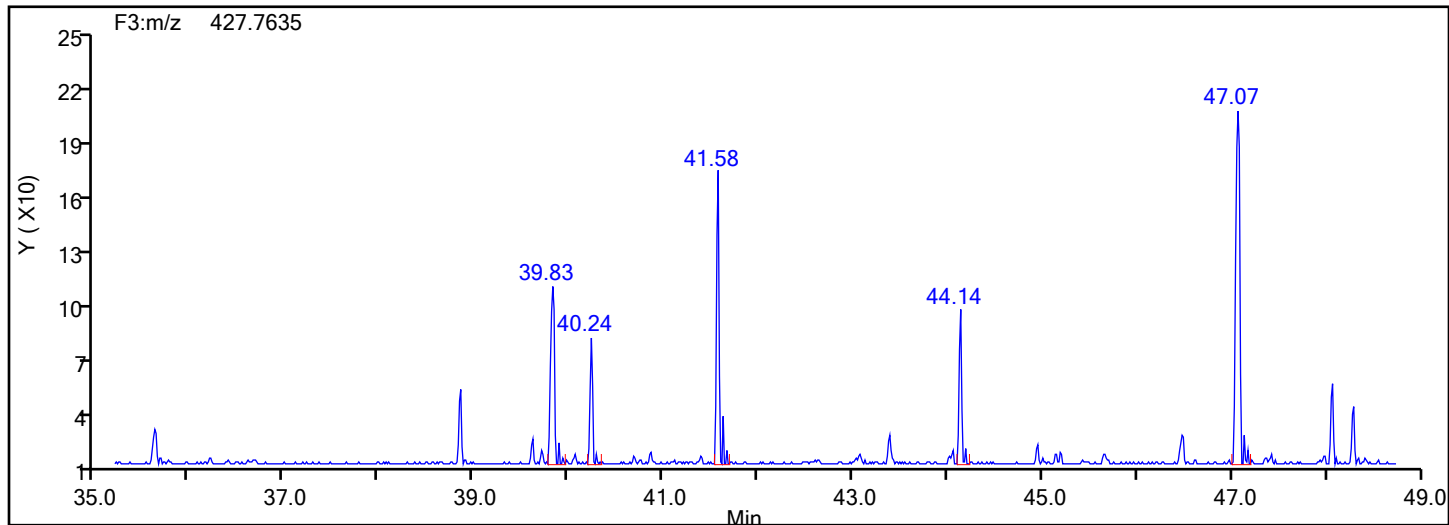


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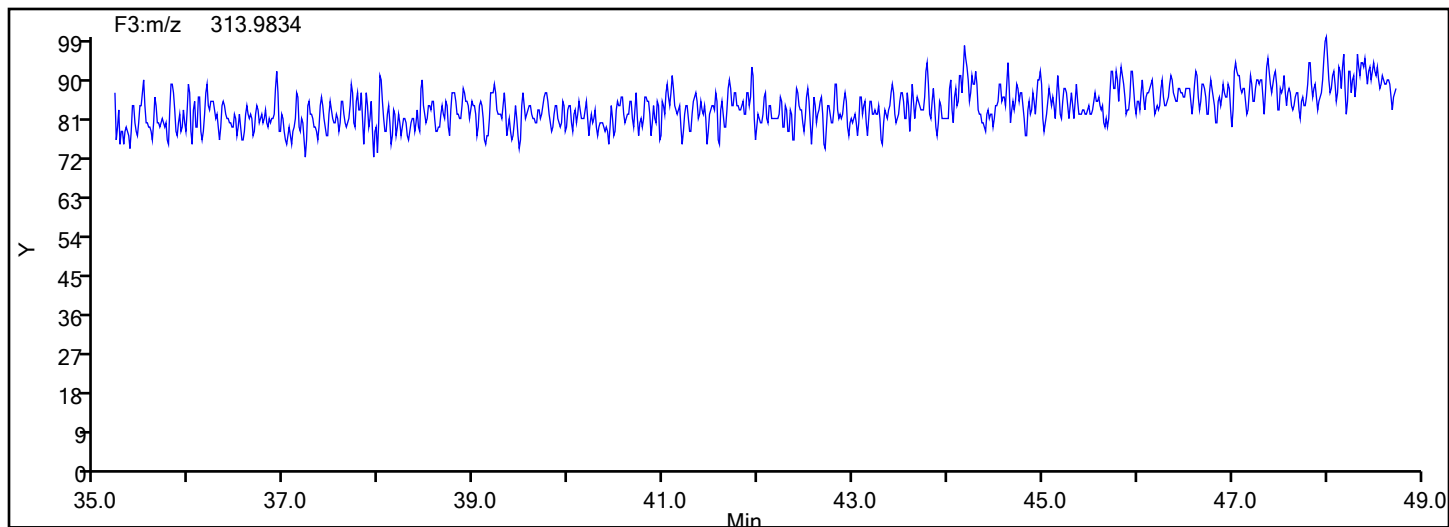


Eurofins Knoxville

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OcPCB F3

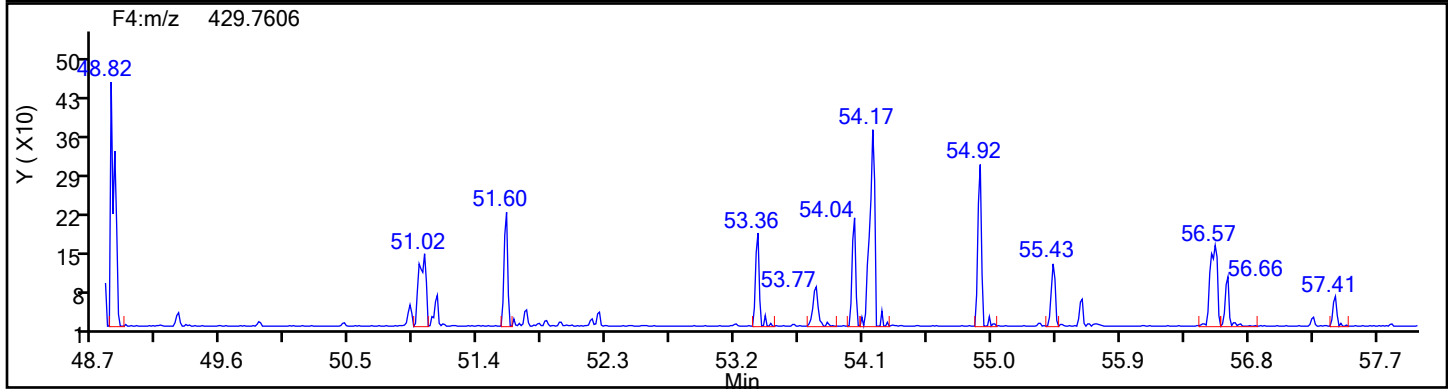
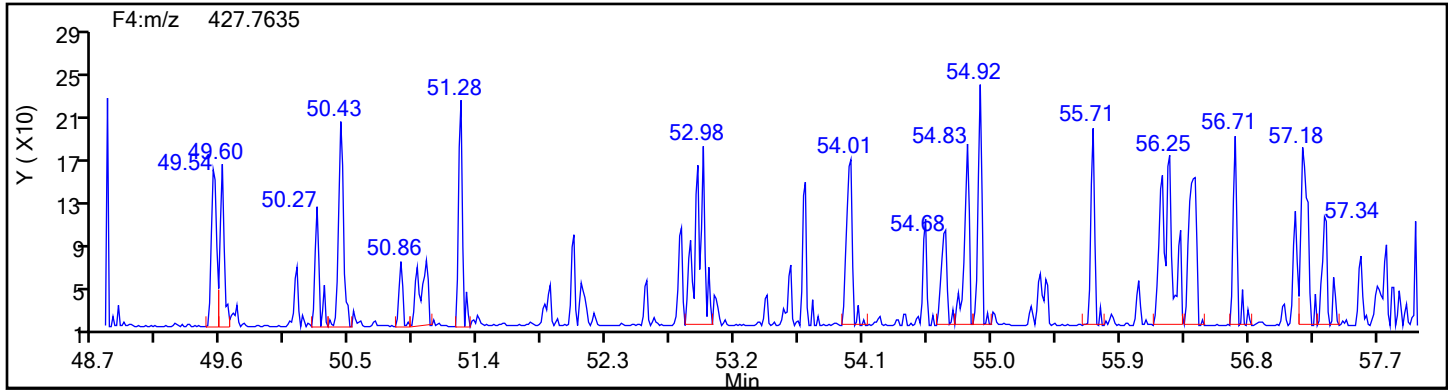


OcPCB F3 Lock Mass

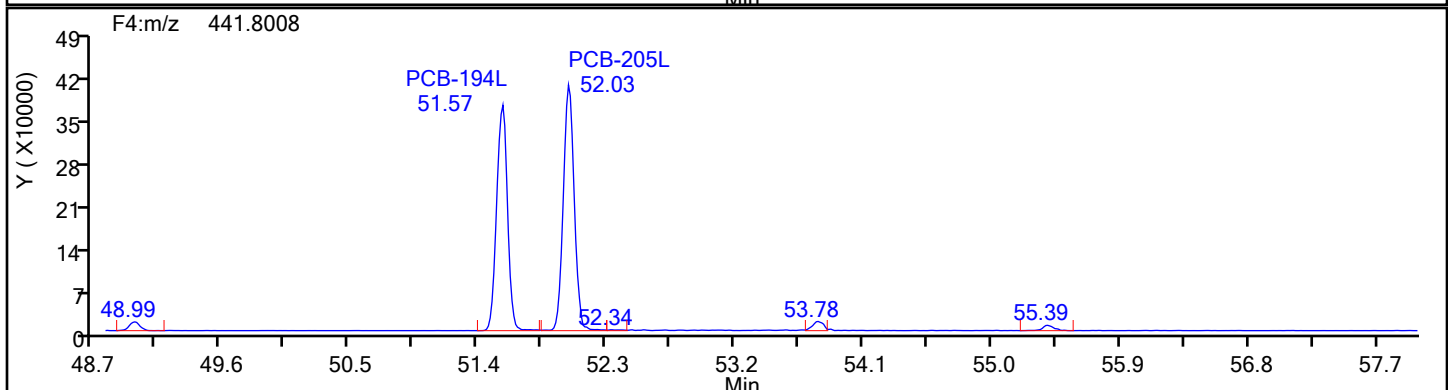
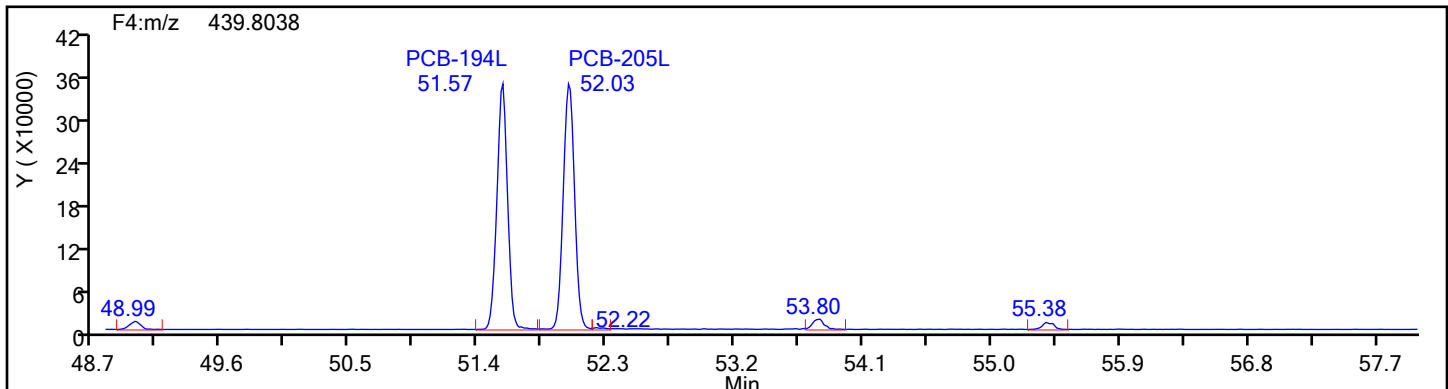


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OcPCB F4

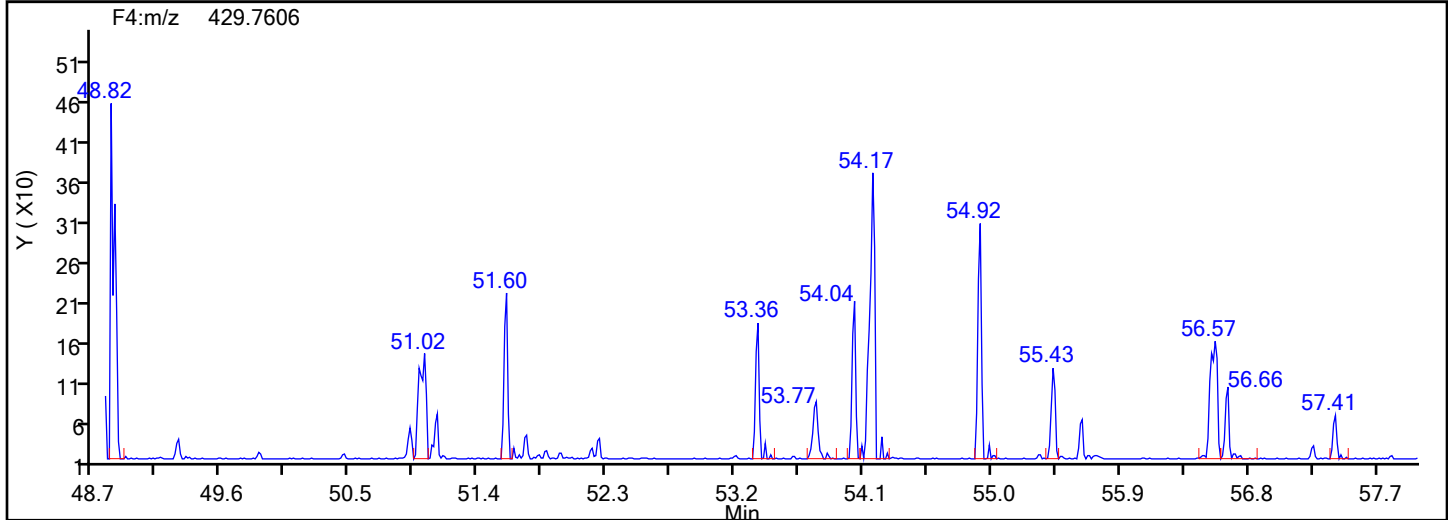
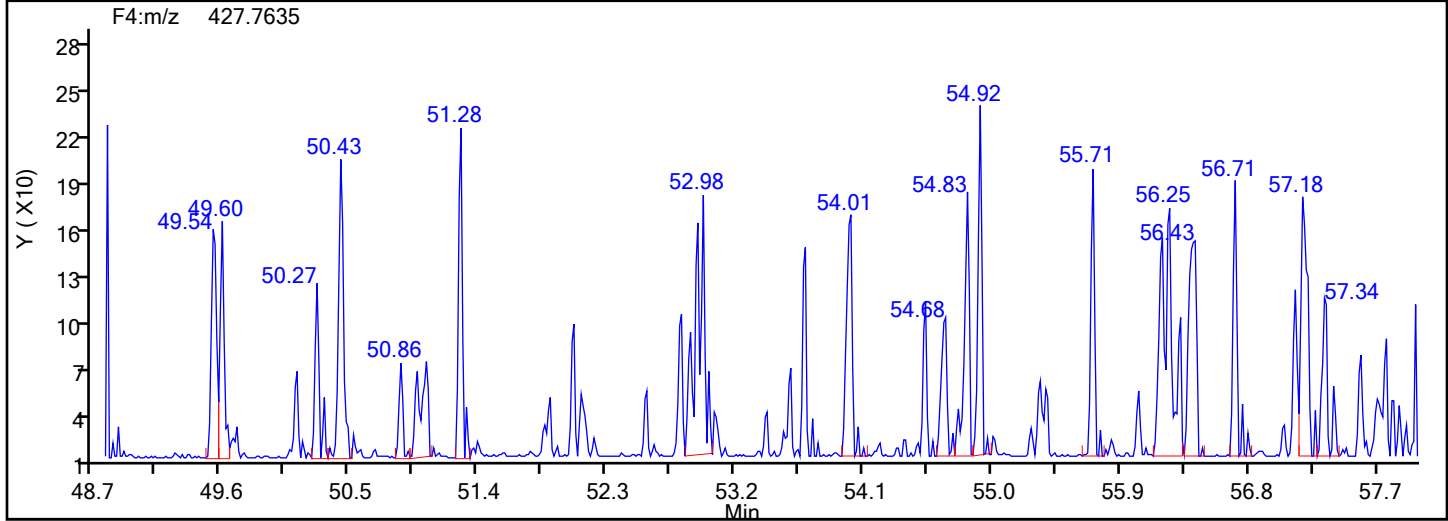


OcPCB F4 Standards

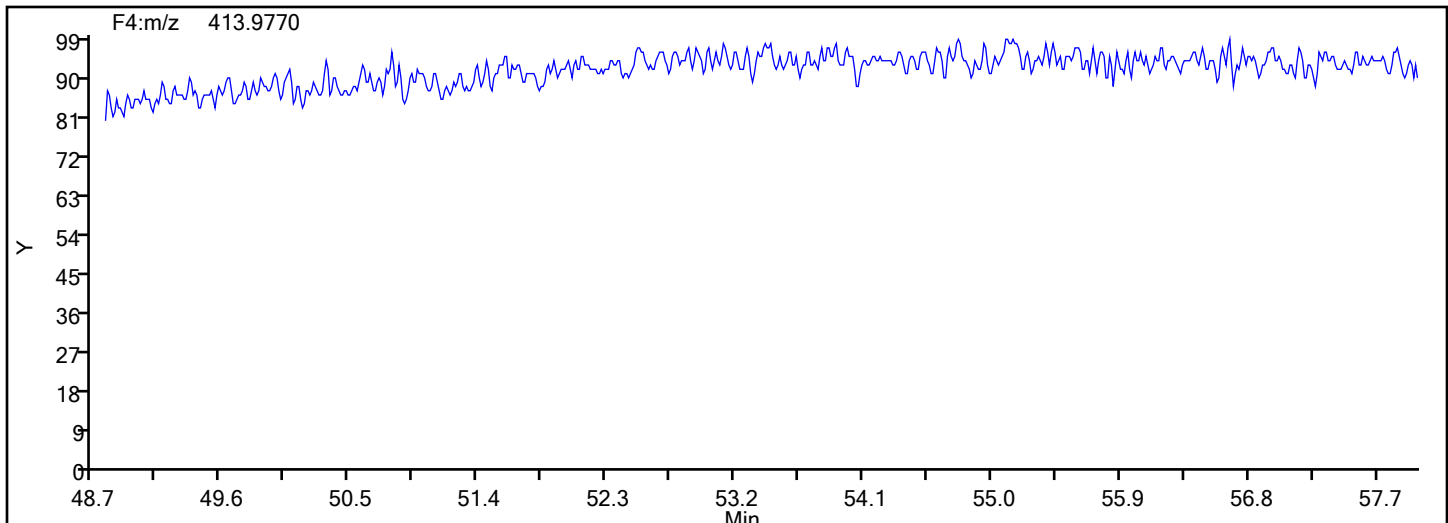


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

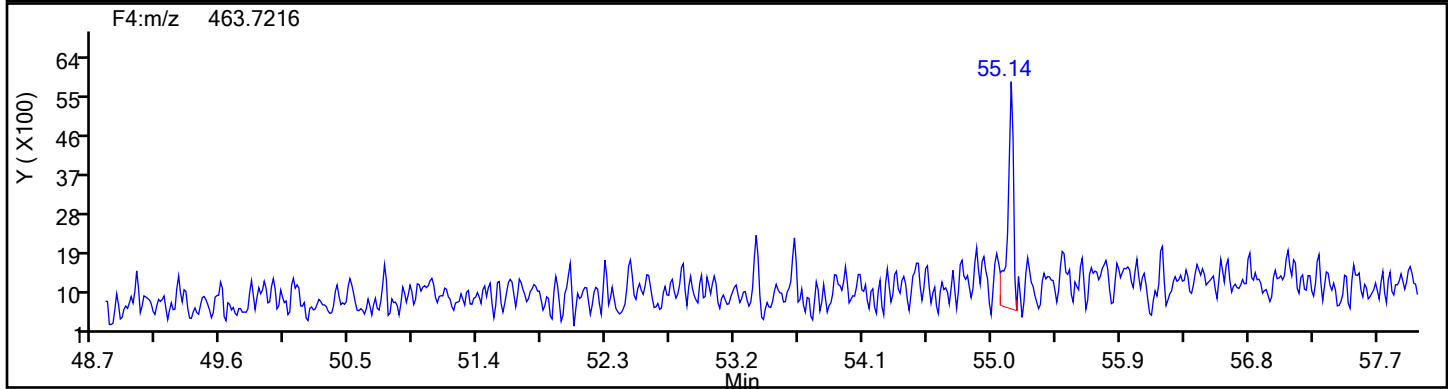
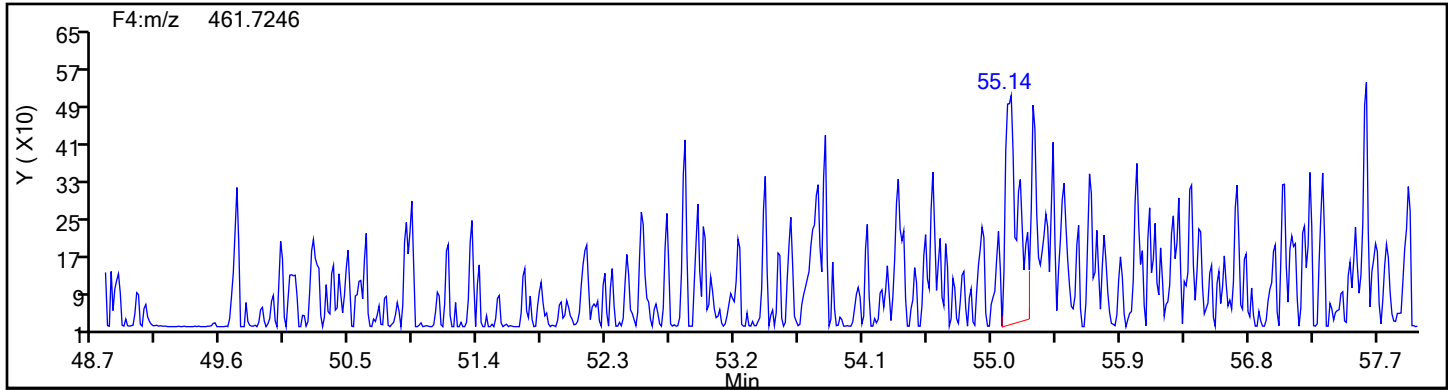


OcPCB F4 Lock Mass

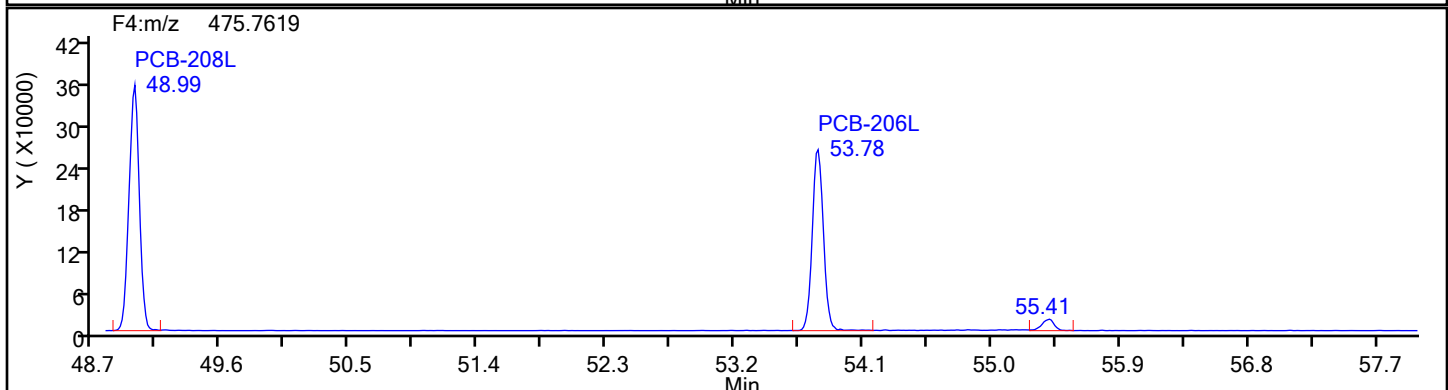
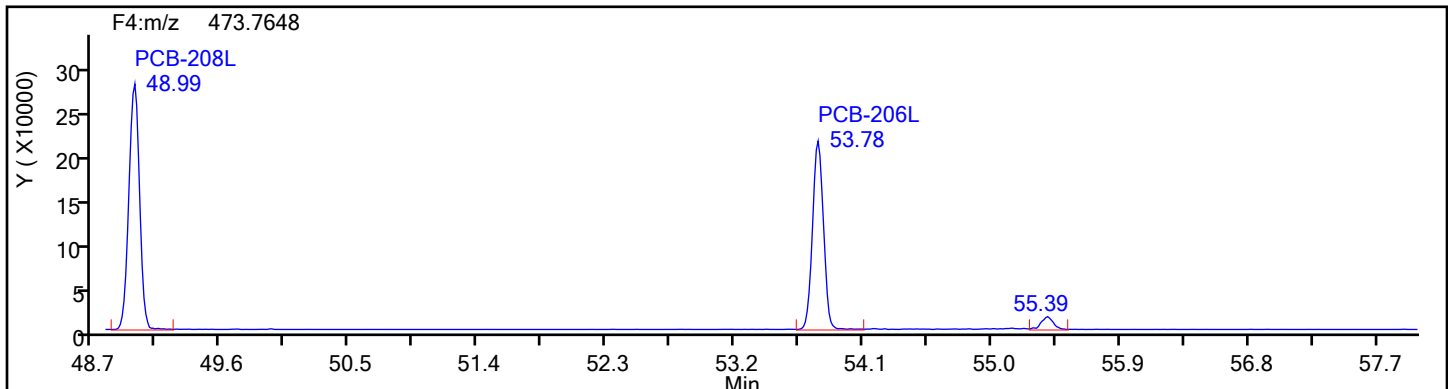


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

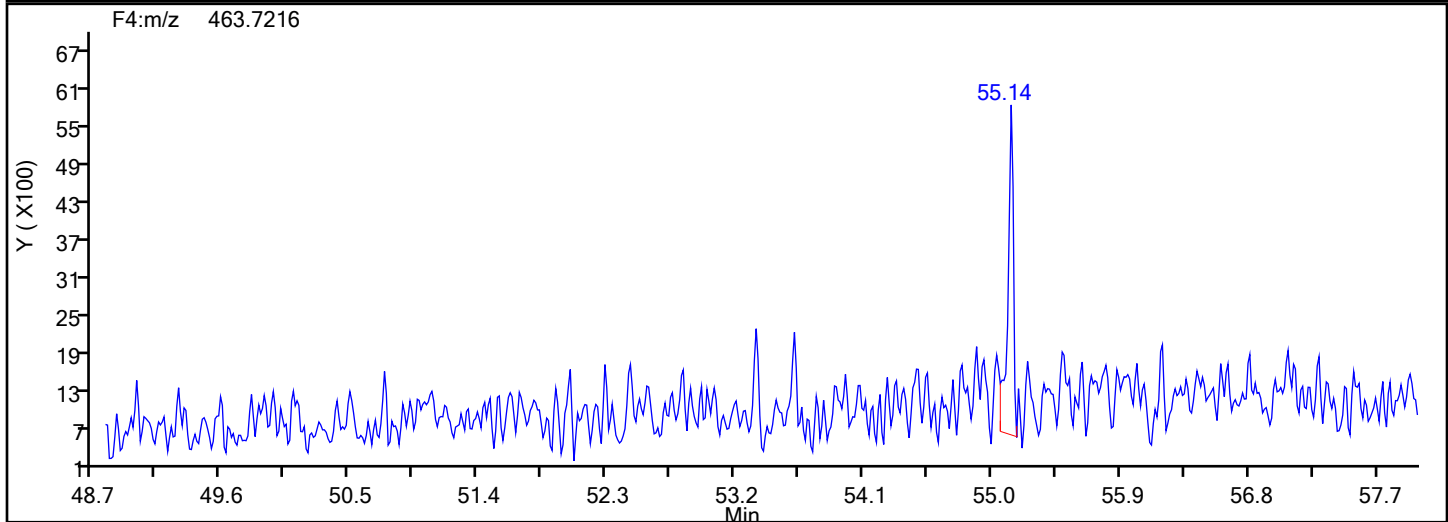
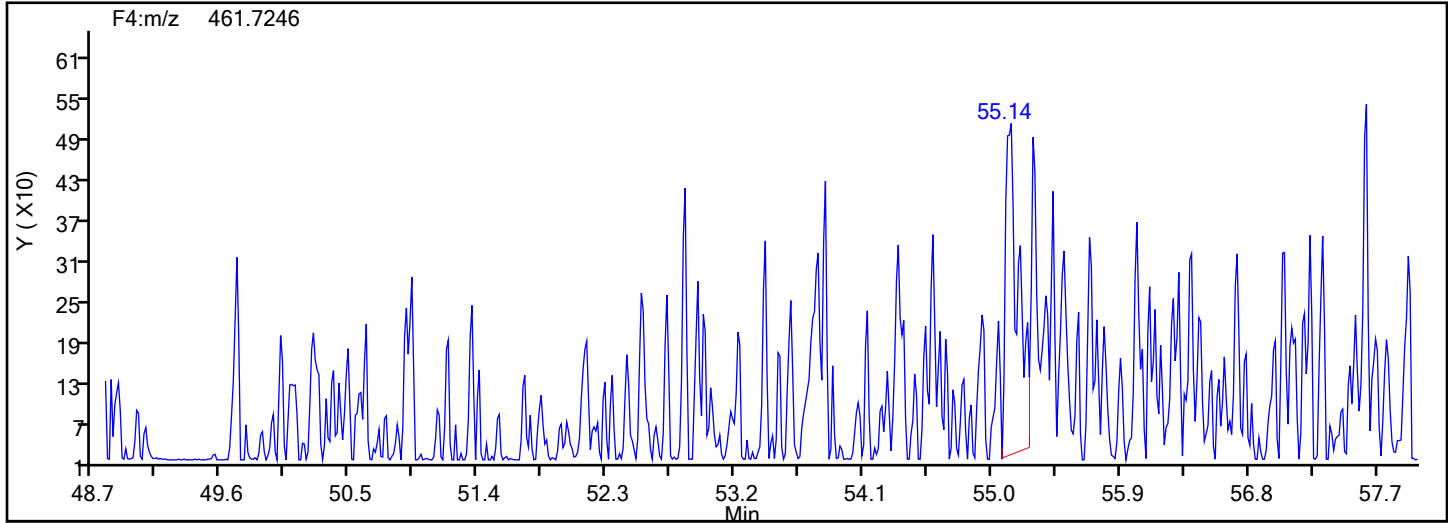


NoPCB F4 Standards

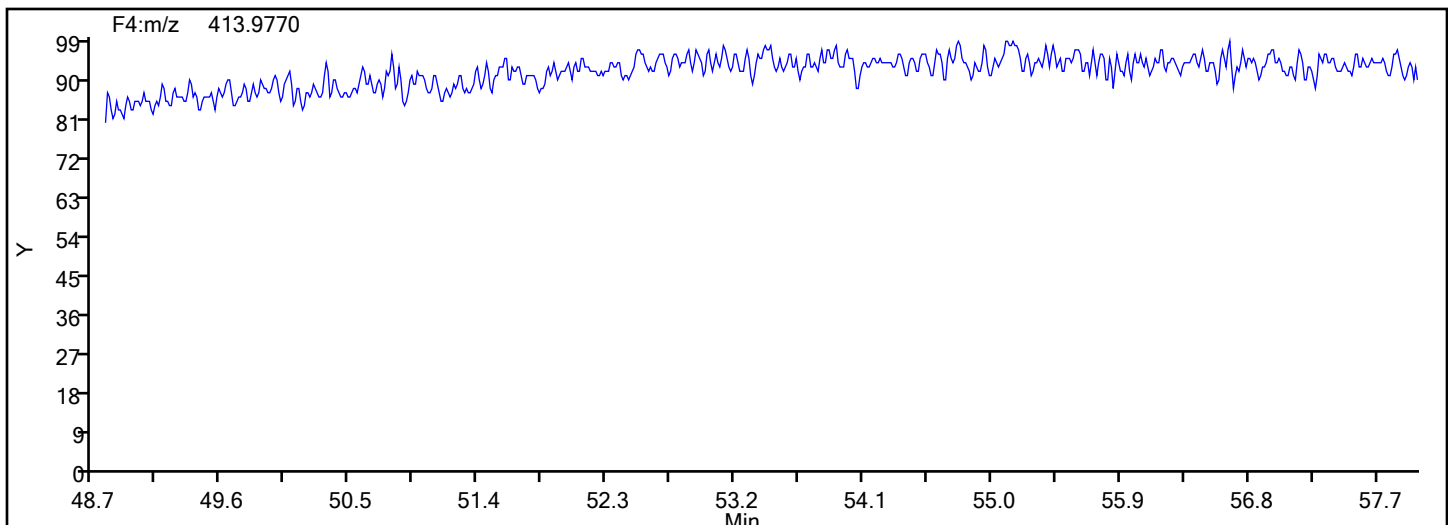


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 7
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NoPCB F4

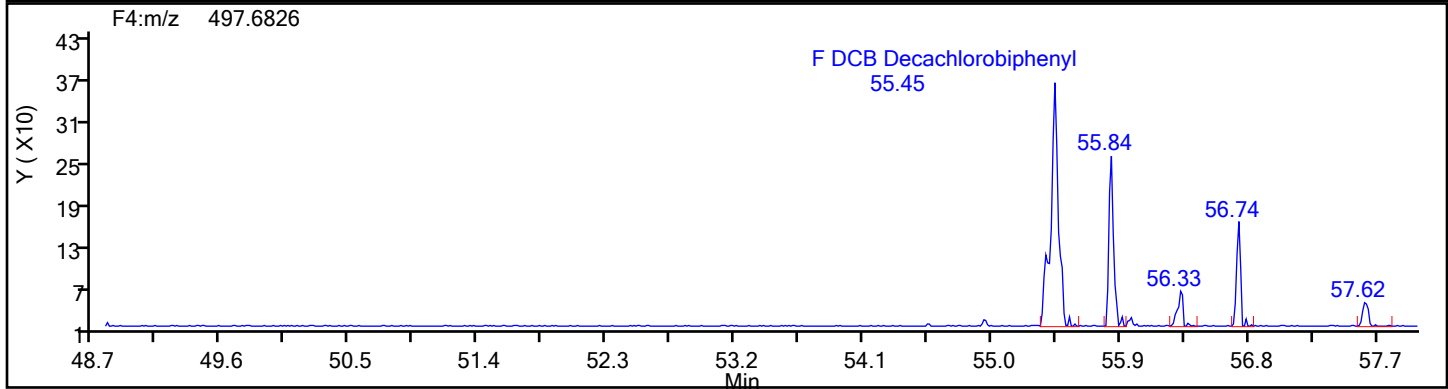
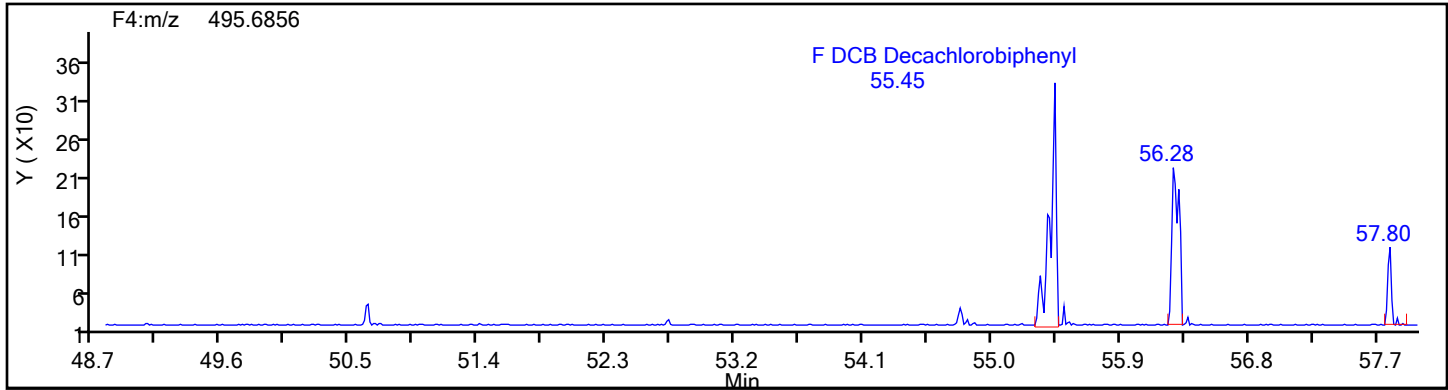


NoPCB F4 Lock Mass

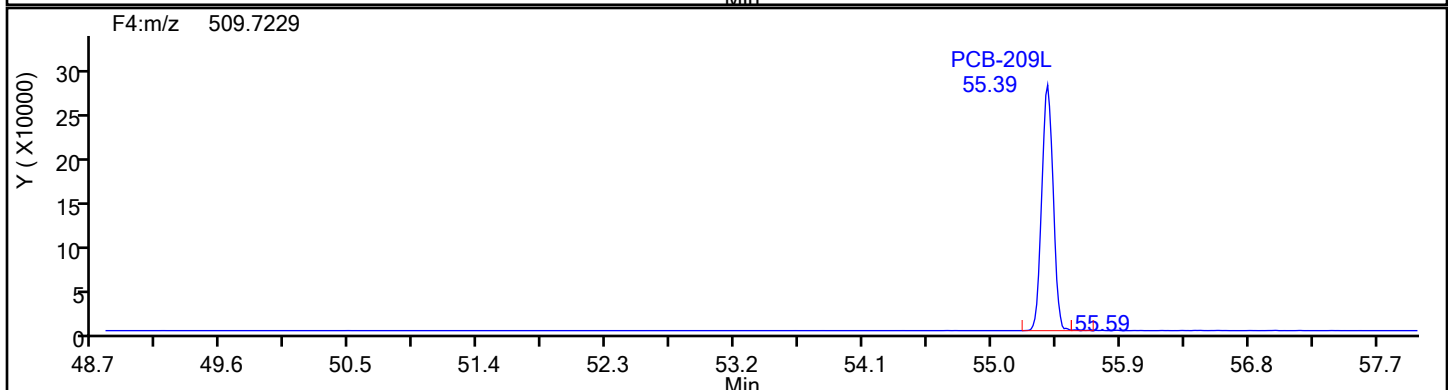
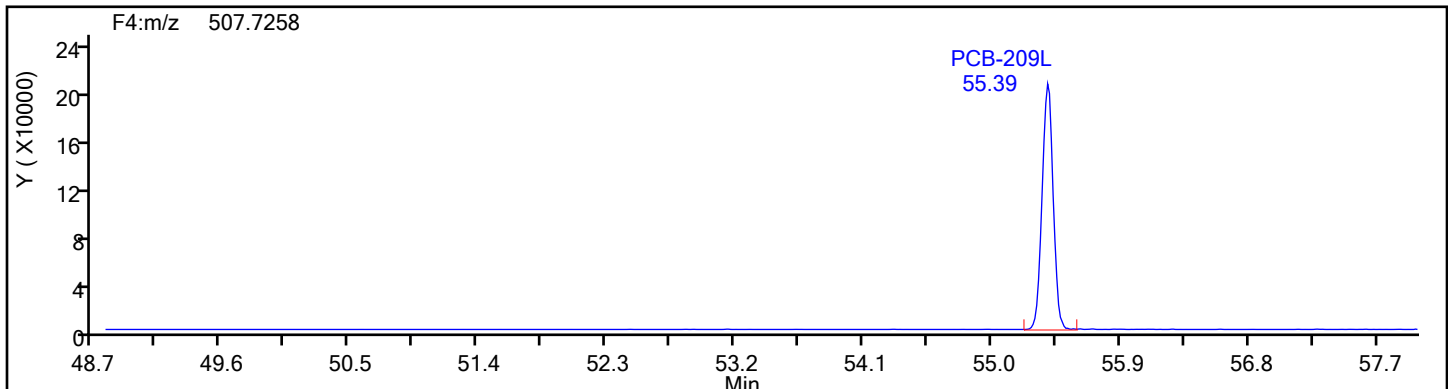


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

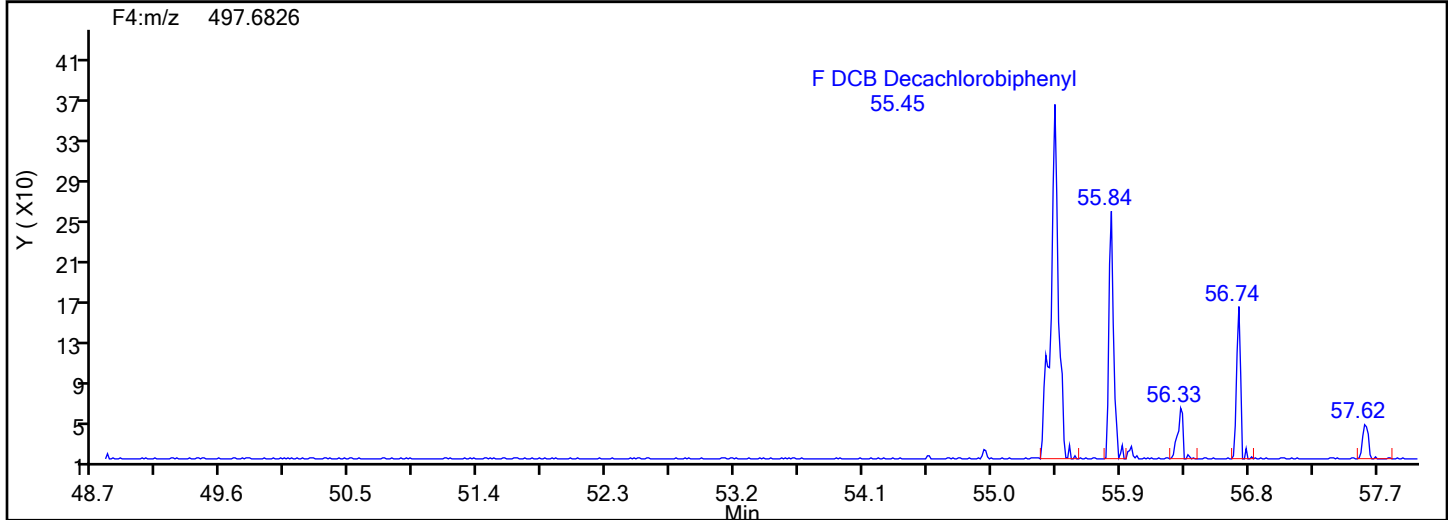
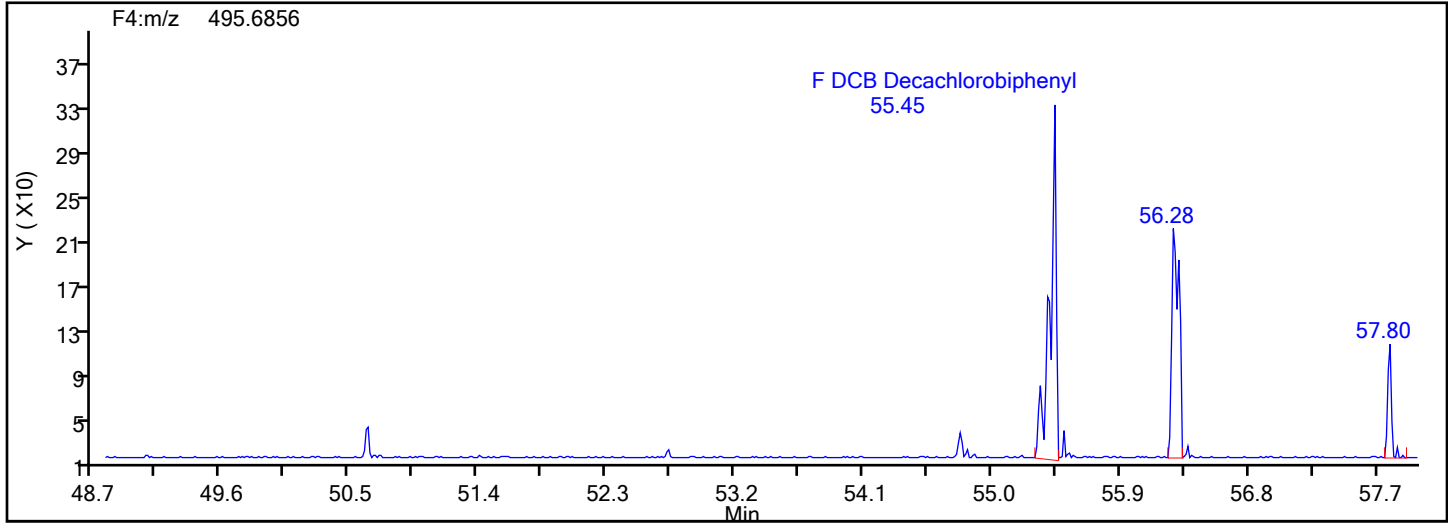


DePCB F4 Standards

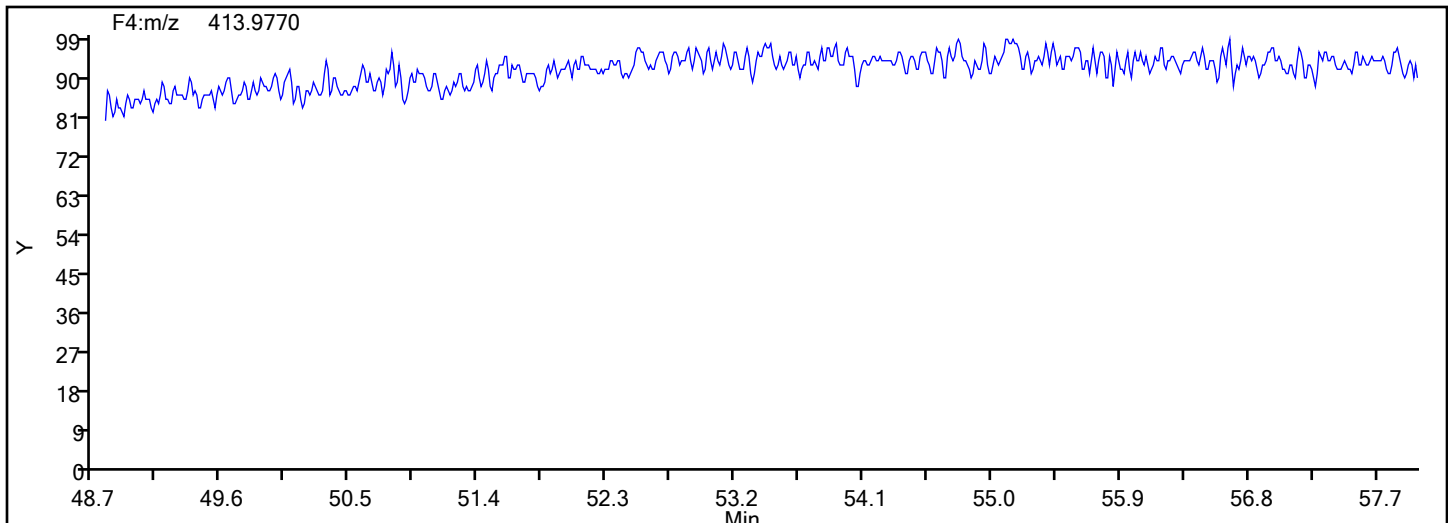


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
Injection Date: 16-Jul-2024 03:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Worklist#: 88780 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



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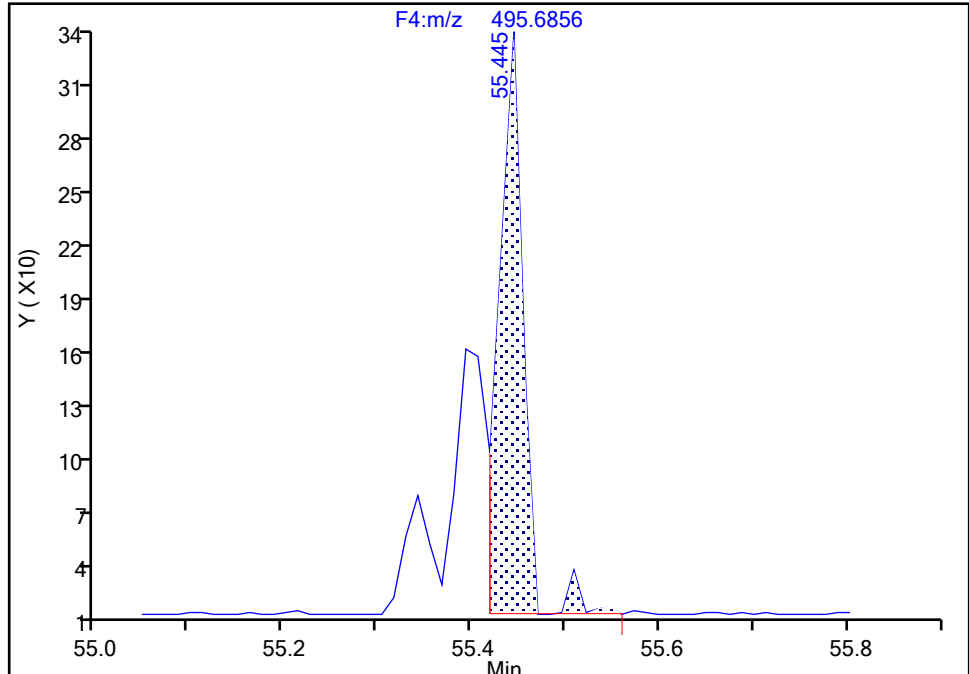
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
Injection Date: 16-Jul-2024 03:58:00 Instrument ID: D2D
Lims ID: 140-37232-A-2-D Lab Sample ID: 140-37232-2
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

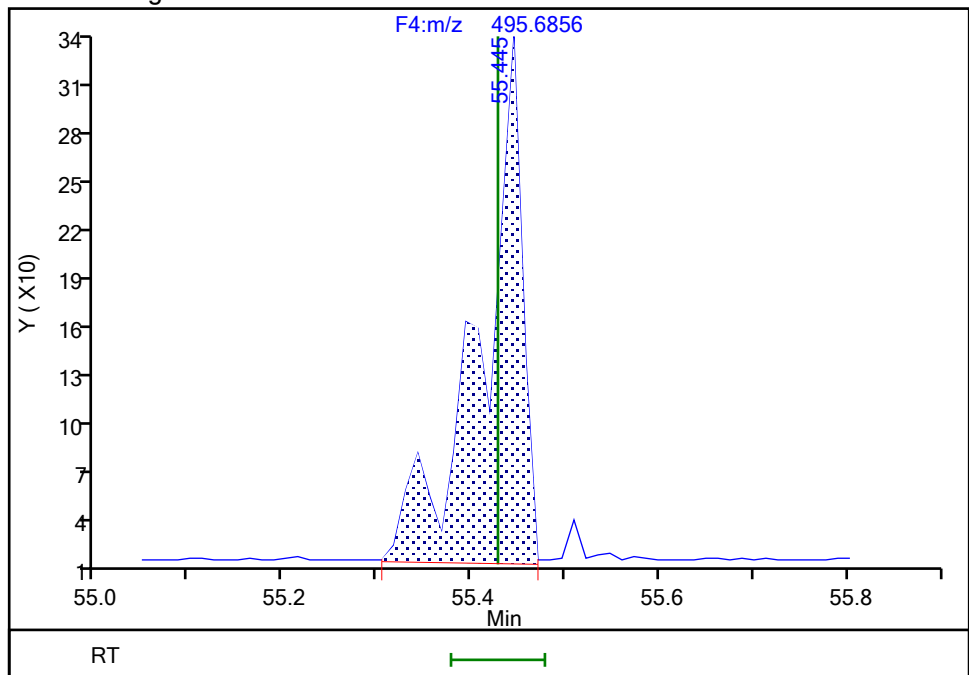
RT: 55.45
Area: 546
Amount: 0.062820
Amount Units: pg/ul

Processing Integration Results



RT: 55.45
Area: 966
Amount: 0.077051
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:47:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-2-d.d
Lims ID: 140-37232-A-2-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 03:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-007
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 02:34:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 02:34:15

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	56.8	113.68
PCB-28L	100.0	69.4	69.42
PCB-79L	50.0	55.4	110.83
PCB-95L	50.0	57.4	114.90
PCB-111L	100.0	74.9	74.85
PCB-153L	50.0	48.3	96.66
PCB-178L	100.0	77.2	77.16

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 3 - COMBINED</u>	Lab Sample ID: <u>140-37232-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-3-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 14:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 04:59</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.186	J S	0.600	0.132	0.0156
37680-65-2	PCB-18	0.155	J C S	0.600	0.285	0.00491
7012-37-5	PCB-28	0.691	B C20	0.600	0.252	0.0131
41464-39-5	PCB-44	1.79	C B	0.900	0.390	0.0143
35693-99-3	PCB-52	0.500		0.300	0.132	0.0152
32598-10-0	PCB-66	0.381		0.300	0.120	0.0111
32598-13-3	PCB-77	0.0610	J	0.300	0.126	0.0129
70362-50-4	PCB-81	ND		0.300	0.0960	0.0129
37680-73-2	PCB-101	0.131	J C90	0.900	0.390	0.00685
32598-14-4	PCB-105	0.0515	J q	0.300	0.102	0.0111
74472-37-0	PCB-114	ND		0.300	0.165	0.0116
31508-00-6	PCB-118	0.116	J	0.300	0.183	0.0116
65510-44-3	PCB-123	ND		0.300	0.171	0.0131
57465-28-8	PCB-126	ND		0.300	0.123	0.0137
38380-07-3	PCB-128	0.0384	J C B	0.600	0.204	0.00263
35065-28-2	PCB-138	0.117	J C129	1.20	0.510	0.00273
35065-27-1	PCB-153	0.160	J q	0.600	0.249	0.00236
38380-08-4	PCB-156	0.00585	J C q	0.600	0.255	0.00278
69782-90-7	PCB-157	0.00585	J C156	0.600	0.255	0.00278
52663-72-6	PCB-167	ND	q	0.300	0.180	0.00200
32774-16-6	PCB-169	ND		0.300	0.123	0.00191
35065-30-6	PCB-170	0.00509	J q	0.300	0.132	0.000271
35065-29-3	PCB-180	0.187	J C q	0.600	0.204	0.000209
52663-68-0	PCB-187	0.246	J	0.300	0.126	0.000222
39635-31-9	PCB-189	ND		0.300	0.147	0.00473
52663-78-2	PCB-195	0.0221	J	0.300	0.159	0.00768

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Lab Sample ID: 140-37232-3
Matrix: Air	Lab File ID: 140-37232-a-3-d.d
Analysis Method: 23	Date Collected: 06/12/2024 14:00
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 04:59
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
40186-72-9	PCB-206	ND		0.300	0.171	0.0925
2051-24-3	PCB-209	ND		0.300	0.138	0.000978

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 3 - COMBINED</u>	Lab Sample ID: <u>140-37232-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-3-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 14:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 04:59</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	58		20-145
208263-77-8	PCB-3L	67		20-145
234432-86-1	PCB-4L	68		20-145
208263-67-6	PCB-15L	72		20-145
234432-87-2	PCB-19L	76		20-145
208263-79-0	PCB-37L	73		20-145
234432-88-3	PCB-54L	95		20-145
105600-23-5	PCB-77L	81		20-145
208461-24-9	PCB-81L	81		20-145
234432-89-4	PCB-104L	92		20-145
208263-62-1	PCB-105L	98		20-145
208263-63-2	PCB-114L	95		20-145
104130-40-7	PCB-118L	88		20-145
208263-64-3	PCB-123L	91		20-145
208263-65-4	PCB-126L	91		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	95	C	20-145
235416-30-5	PCB-157L	95	C156	20-145
208263-69-8	PCB-167L	87		20-145
208263-70-1	PCB-169L	88		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	93		20-145
208263-73-4	PCB-189L	93		20-145
105600-26-8	PCB-202L	87		20-145
234446-64-1	PCB-205L	93		20-145
208263-75-6	PCB-206L	96		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	106		20-145

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Lab Sample ID: 140-37232-3
Matrix: Air	Lab File ID: 140-37232-a-3-d.d
Analysis Method: 23	Date Collected: 06/12/2024 14:00
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 04:59
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25(mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	73		20-130
235416-29-2	PCB-111L	82		20-130
232919-67-4	PCB-178L	77		20-130
STL01600	PCB-8L	98		70-130
STL01603	PCB-79L	115		70-130
STL01604	PCB-95L	114		70-130
STL01606	PCB-153L	101		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Lims ID: 140-37232-A-3-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 04:59:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:04:31 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 21:43:38

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					16.8	16.8	0.0607	0.0607		
D PCB-1L	11:37	5819689	3.17	1.6108	57.8	57.8	0.4882	0.4882	57.82	
D PCB-3L	13:46	6700433	3.21	1.5891	67.5	67.5	0.4948	0.4948	67.47	
PCB-1	11:38	124323	3.22	1.2191	1.752	1.752	0.0590	0.0590		
PCB-2	13:36	640060	3.08	1.1805	8.661	8.661	0.0621	0.0621		
PCB-3	13:47	519287	3.24	1.2206	6.349	6.349	0.0611	0.0611		
S Total Dichlorobiphenyls					13.6	13.4	0.0600	0.0600		RQ
D PCB-4L	14:01	2758233	1.57	0.6475	68.2	68.2	0.2178	0.2178	68.17	
* PCB-9L	16:01	6248852	1.59		100.0	100.0				
\$ PCB-8L	16:53	2254781	1.63	1.2066	49.0	49.0	0.1791	0.1791	98.05	a
D PCB-15L	20:06	4865460	1.60	1.0789	72.2	72.2	0.1307	0.1307	72.17	a
PCB-4	14:02	16743	1.57	1.2818	0.4736	0.4736	0.0636	0.0636		
PCB-10	14:13						0.0629	0.0629		
PCB-9	15:59						0.0581	0.0581		
PCB-7	16:14	17897	1.57	1.4134	0.3322	0.3322	0.0585	0.0585		a
PCB-6	16:28	14548	1.56	1.5421	0.3097	0.2475	0.0536	0.0536		RQMa
PCB-5	16:43						0.0617	0.0617		
PCB-8	16:56	37596	1.46	1.5889	0.6207	0.6207	0.0520	0.0520		M
PCB-14	18:26						0.0589	0.0589		
PCB-11	19:32	542482	1.55	1.2951	11.0	11.0	0.0638	0.0638		M
PCB-12	19:44	13857	1.56	1.3358	0.3347	0.2721	0.0619	0.0619		RQMa
PCB-13 (C12)	19:44	13857	1.56	1.3358	0.3347	0.2721	0.0619	0.0619		RQMa
PCB-15	20:07	31497	1.47	1.2903	0.5017	0.5017	0.0649	0.0649		Ma
S Total Trichlorobiphenyls					11.9	11.4	0.0360	0.0360		RQ
D PCB-19L	17:13	1884879	1.11	0.6285	76.2	76.2	0.5477	0.5477	76.20	
* PCB-32L	20:32	3935189	1.06		100.0	100.0				
* PCB-31L	22:42	11254388	1.05		100.0	100.0				
\$ PCB-28L	22:58	8648317	1.05	1.0494	73.2	73.2	0.0878	0.0878	73.23	
D PCB-37L	26:55	7209753	1.07	0.8749	73.2	73.2	0.1052	0.1052	73.22	
PCB-19	17:11	3382	0.93	1.2809	0.1401	0.1401	0.0225	0.0225		M
PCB-18	19:15	17194	1.00	1.7652	0.5168	0.5168	0.0164	0.0164		M
PCB-30 (C18)	19:15	17194	1.00	1.7652	0.5168	0.5168	0.0164	0.0164		M
PCB-17	19:37	16915	0.98	1.2430	0.7220	0.7220	0.0232	0.0232		a
PCB-27	19:48	2701	1.04	1.8327	0.1226	0.0782	0.0158	0.0158		RQa

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.0172	0.0172		RQU
PCB-16	20:03	9472	1.04	1.1286	0.5202	0.4453	0.0256	0.0256		RQa
PCB-32	20:32	19354	0.88	1.8324	0.5603	0.5603	0.0158	0.0158		Ma
PCB-34	21:36						0.0453	0.0453		
PCB-23	21:45						0.0473	0.0473		
PCB-26	22:10	36396	1.04	1.1255	0.4978	0.4485	0.0454	0.0454		RQ
PCB-29 (C26)	22:10	36396	1.04	1.1255	0.4978	0.4485	0.0454	0.0454		RQ
PCB-25	22:23	20993	0.93	1.2728	0.2288	0.2288	0.0402	0.0402		a
PCB-31	22:42	185573	0.99	1.1532	2.232	2.232	0.0443	0.0443		a
PCB-20	22:59	194673	0.96	1.1718	2.304	2.304	0.0436	0.0436		
PCB-28 (C20)	22:59	194673	0.96	1.1718	2.304	2.304	0.0436	0.0436		
PCB-21	23:14	125081	1.04	1.0746	1.842	1.614	0.0476	0.0476		RQa
PCB-33 (C21)	23:14	125081	1.04	1.0746	1.842	1.614	0.0476	0.0476		RQa
PCB-22	23:38	77633	1.04	1.1932	1.079	0.9024	0.0428	0.0428		RQMa
PCB-36	25:05						0.0462	0.0462		
PCB-39	25:27						0.0441	0.0441		
PCB-38	26:01						0.0472	0.0472		
PCB-35	26:32	18204	0.97	1.1297	0.2235	0.2235	0.0453	0.0453		
PCB-37	26:56	77979	1.07	1.1435	0.9458	0.9458	0.0447	0.0447		M
S Total Tetrachlorobiphenyls					19.0	18.8	0.0429	0.0429		RQ
D PCB-54L	20:24	2069766	0.79	0.5562	94.6	94.6	0.0987	0.0987	94.56	
* PCB-52L	24:46	5500540	0.81		100.0	100.0				
\$ PCB-79L	32:37	3310291	0.78	1.0018	57.7	57.7	0.5377	0.5377	115	
D PCB-81L	33:37	5550503	0.80	1.2470	80.9	80.9	0.3831	0.3831	80.92	
D PCB-77L	34:11	5898835	0.83	1.3212	81.2	81.2	0.3616	0.3616	81.17	
PCB-54	20:12						0.0234	0.0234		
PCB-50	22:28	12454	0.77	0.8578	0.2840	0.2536	0.0542	0.0542		RQa
PCB-53 (C50)	22:28	12454	0.77	0.8578	0.2840	0.2536	0.0542	0.0542		RQa
PCB-45	23:10	93339	0.79	0.8264	1.973	1.973	0.0563	0.0563		a
PCB-51 (C45)	23:10	93339	0.79	0.8264	1.973	1.973	0.0563	0.0563		a
PCB-46	23:20						0.0655	0.0655		
PCB-52	24:47	87748	0.72	0.9194	1.667	1.667	0.0506	0.0506		a
PCB-43	24:52						0.0450	0.0450		
PCB-73 (C43)	24:52						0.0450	0.0450		
PCB-49	25:16	46317	0.73	1.0685	0.7572	0.7572	0.0435	0.0435		a
PCB-69 (C49)	25:16	46317	0.73	1.0685	0.7572	0.7572	0.0435	0.0435		a
PCB-48	25:32	19912	0.67	0.8399	0.4141	0.4141	0.0554	0.0554		a
PCB-44	25:48	332852	0.80	0.9731	5.975	5.975	0.0478	0.0478		a
PCB-47 (C44)	25:48	332852	0.80	0.9731	5.975	5.975	0.0478	0.0478		a
PCB-65 (C44)	25:48	332852	0.80	0.9731	5.975	5.975	0.0478	0.0478		a
PCB-59	26:05	10350	0.77	1.1853	0.1752	0.1525	0.0392	0.0392		RQa
PCB-62 (C59)	26:05	10350	0.77	1.1853	0.1752	0.1525	0.0392	0.0392		RQa
PCB-75 (C59)	26:05	10350	0.77	1.1853	0.1752	0.1525	0.0392	0.0392		RQa
PCB-42	26:17	22134	0.77	0.8097	0.5528	0.4775	0.0575	0.0575		RQa
PCB-40	26:46	52034	0.77	0.8863	1.102	1.026	0.0525	0.0525		RQM
PCB-41 (C40)	26:46	52034	0.77	0.8863	1.102	1.026	0.0525	0.0525		RQM
PCB-71 (C40)	26:46	52034	0.77	0.8863	1.102	1.026	0.0525	0.0525		RQM
PCB-64	26:59	42716	0.67	1.1776	0.6337	0.6337	0.0395	0.0395		Ma
PCB-72	27:46						0.0425	0.0425		
PCB-68	28:06	52528	0.84	1.2533	0.7321	0.7321	0.0371	0.0371		
PCB-57	28:29						0.0430	0.0430		
PCB-58	28:44						0.0351	0.0351		
PCB-67	28:53						0.0327	0.0327		
PCB-63	29:09						0.0414	0.0414		
PCB-61	29:30	152172	0.84	1.2612	2.108	2.108	0.0369	0.0369		
PCB-70 (C61)	29:30	152172	0.84	1.2612	2.108	2.108	0.0369	0.0369		
PCB-74 (C61)	29:30	152172	0.84	1.2612	2.108	2.108	0.0369	0.0369		
PCB-76 (C61)	29:30	152172	0.84	1.2612	2.108	2.108	0.0369	0.0369		
PCB-66	29:50	91590	0.76	1.2583	1.272	1.272	0.0370	0.0370		
PCB-55	29:59						0.0351	0.0351		
PCB-56	30:31	50591	0.83	1.2334	0.7165	0.7165	0.0377	0.0377		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:43	29542	0.74	1.1230	0.4595	0.4595	0.0414	0.0414		M
PCB-80	31:06						0.0351	0.0351		
PCB-79	32:38						0.0324	0.0324		
PCB-78	33:11						0.0400	0.0400		
PCB-81	33:38						0.0429	0.0429		
PCB-77	34:12	12999	0.82	1.0836	0.2034	0.2034	0.0431	0.0431		M
S Total Pentachlorobiphenyls					3.974	3.501	0.0289	0.0289		RQ
D PCB-104L	25:41	3757130	1.58	1.2161	92.0	92.0	0.0666	0.0666	92.01	
\$ PCB-95L	28:38	1547810	1.59	0.7218	57.1	57.1	0.0933	0.0933	114	
* PCB-101L	31:32	3357740	1.61		100.0	100.0				
\$ PCB-111L	34:12	3775928	1.59	1.3699	82.1	82.1	0.0591	0.0591	82.09	
D PCB-123L	36:09	5435239	1.54	0.9731	90.8	90.8	0.8391	0.8391	90.83	
D PCB-118L	36:29	5477705	1.60	1.0102	88.2	88.2	0.8084	0.8084	88.18	
D PCB-114L	37:01	5813252	1.61	0.9949	95.0	95.0	0.8208	0.8208	95.02	
D PCB-105L	37:40	5761831	1.56	0.9514	98.5	98.5	0.8583	0.8583	98.48	
* PCB-127L	39:08	6149390	1.59		100.0	100.0				
D PCB-126L	40:44	5275627	1.59	0.9439	90.9	90.9	0.8651	0.8651	90.89	
PCB-104	25:40						0.0216	0.0216		
PCB-96	26:03						0.0199	0.0199		
PCB-103	27:57						0.0250	0.0250		
PCB-94	28:11						0.0286	0.0286		
PCB-95	28:41	15701	1.53	0.8033	0.5202	0.5202	0.0272	0.0272		M
PCB-93	28:50						0.0259	0.0259		
PCB-100 (C93)	28:50						0.0259	0.0259		
PCB-98	28:59						0.0264	0.0264		
PCB-102 (C98)	28:59						0.0264	0.0264		
PCB-88	29:30	4572	1.55	0.8013	0.2049	0.1519	0.0272	0.0272		RQ
PCB-91 (C88)	29:30	4572	1.55	0.8013	0.2049	0.1519	0.0272	0.0272		RQ
PCB-84	29:46	4074	1.55	0.7299	0.2744	0.1486	0.0299	0.0299		RQM
PCB-89	30:11						0.0280	0.0280		
PCB-121	30:34						0.0168	0.0168		
PCB-92	31:02	2480	1.55	0.8546	0.0843	0.0772	0.0255	0.0255		RQM
PCB-90	31:34	15715	1.55	0.9550	0.5605	0.4380	0.0228	0.0228		RQM
PCB-101 (C90)	31:34	15715	1.55	0.9550	0.5605	0.4380	0.0228	0.0228		RQM
PCB-113 (C90)	31:34	15715	1.55	0.9550	0.5605	0.4380	0.0228	0.0228		RQM
PCB-83	32:10	8123	1.73	0.8385	0.2578	0.2578	0.0260	0.0260		M
PCB-99 (C83)	32:10	8123	1.73	0.8385	0.2578	0.2578	0.0260	0.0260		M
PCB-112	32:14						0.0155	0.0155		
PCB-86	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-87 (C86)	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-97 (C86)	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-109 (C86)	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-119 (C86)	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-125 (C86)	32:43	20218	1.55	1.0473	0.6211	0.5138	0.0208	0.0208		RQM
PCB-85	33:24	5659	1.38	1.0408	0.1447	0.1447	0.0210	0.0210		M
PCB-116 (C85)	33:24	5659	1.38	1.0408	0.1447	0.1447	0.0210	0.0210		M
PCB-117 (C85)	33:24	5659	1.38	1.0408	0.1447	0.1447	0.0210	0.0210		M
PCB-110	33:32	27263	1.70	1.1919	0.6088	0.6088	0.0183	0.0183		M
PCB-115 (C110)	33:32	27263	1.70	1.1919	0.6088	0.6088	0.0183	0.0183		M
PCB-82	33:51	2511	1.55	0.8303	0.1140	0.0805	0.0263	0.0263		RQa
PCB-111	34:12						0.0180	0.0180		
PCB-120	34:40						0.0148	0.0148		
PCB-108	35:49						0.0401	0.0401		
PCB-124 (C108)	35:49						0.0401	0.0401		
PCB-107	36:04						0.0377	0.0377		
PCB-123	36:11						0.0437	0.0437		
PCB-106	36:18						0.0422	0.0422		
PCB-118	36:31	25617	1.60	1.2055	0.3879	0.3879	0.0387	0.0387		
PCB-122	36:52						0.0478	0.0478		
PCB-114	37:02						0.0388	0.0388		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:42	11757	1.55	1.1879	0.1954	0.1718	0.0370	0.0370		RQM
PCB-127	39:09						0.0402	0.0402		
PCB-126	40:47						0.0456	0.0456		
S Total Hexachlorobiphenyls					2.715	2.468	0.007305	0.007305		RQ
D PCB-155L	31:17	3106151	1.27	1.0851	85.2	85.2	0.0488	0.0488	85.25	
\$ PCB-153L	38:20	2193358	1.25	0.9169	50.7	50.7	0.7778	0.7778	101	
* PCB-138L	39:36	4204881	1.27		100.0	100.0				
D PCB-167L	42:35	4587447	1.27	1.2572	86.8	86.8	0.5348	0.5348	86.78	
D PCB-156L	43:46	9654039	1.28	1.2106	189.7	189.7	0.5554	0.5554	94.83	
D PCB-157L (C156L)	43:46	9654039	1.28	1.2106	189.7	189.7	0.5554	0.5554	94.83	
D PCB-169L	46:58	4624002	1.26	1.2439	88.4	88.4	0.5406	0.5406	88.41	
PCB-155	31:17						0.002502	0.002502		
PCB-152	31:31						0.002388	0.002388		
PCB-150	31:40						0.002332	0.002332		
PCB-136	32:03	309	1.24	1.0116	0.0493	0.009834	0.002335	0.002335		RQ
PCB-145	32:20						0.002439	0.002439		
PCB-148	33:50						0.003107	0.003107		
PCB-135	34:26	7947	1.39	0.7256	0.3526	0.3526	0.003256	0.003256		M
PCB-151 (C135)	34:26	7947	1.39	0.7256	0.3526	0.3526	0.003256	0.003256		M
PCB-154	34:41						0.002906	0.002906		
PCB-144	35:00						0.003009	0.003009		
PCB-147	35:22	25209	1.15	0.8950	0.5972	0.5972	0.009627	0.009627		
PCB-149 (C147)	35:22	25209	1.15	0.8950	0.5972	0.5972	0.009627	0.009627		
PCB-134	35:40						0.0108	0.0108		
PCB-143 (C134)	35:40						0.0108	0.0108		
PCB-139	35:57						0.009826	0.009826		
PCB-140 (C139)	35:57						0.009826	0.009826		
PCB-131	36:10						0.0115	0.0115		
PCB-142	36:19						0.0115	0.0115		
PCB-132	36:38	7632	1.37	0.7489	0.2161	0.2161	0.0115	0.0115		
PCB-133	37:07						0.0106	0.0106		
PCB-165	37:30						0.008408	0.008408		
PCB-146	37:46	1289	1.24	0.9637	0.0355	0.0284	0.008941	0.008941		RQ
PCB-161	37:53						0.007633	0.007633		
PCB-153	38:22	27433	1.24	1.0938	0.6236	0.5318	0.007878	0.007878		RQ
PCB-168 (C153)	38:22	27433	1.24	1.0938	0.6236	0.5318	0.007878	0.007878		RQ
PCB-141	38:34	4514	1.15	0.8755	0.1093	0.1093	0.009841	0.009841		M
PCB-130	38:59						0.0122	0.0122		
PCB-137	39:12	638	1.24	0.7767	0.0192	0.0174	0.0111	0.0111		RQ
PCB-164	39:20	1528	1.24	1.0382	0.0440	0.0312	0.008299	0.008299		RQM
PCB-129	39:38	17478	1.24	0.9464	0.4713	0.3916	0.009104	0.009104		RQM
PCB-138 (C129)	39:38	17478	1.24	0.9464	0.4713	0.3916	0.009104	0.009104		RQM
PCB-160 (C129)	39:38	17478	1.24	0.9464	0.4713	0.3916	0.009104	0.009104		RQM
PCB-163 (C129)	39:38	17478	1.24	0.9464	0.4713	0.3916	0.009104	0.009104		RQM
PCB-158	40:00	2140	1.24	1.3110	0.0434	0.0346	0.006572	0.006572		RQ
PCB-128	40:55	5940	1.05	0.9829	0.1281	0.1281	0.008766	0.008766		M
PCB-166 (C128)	40:55	5940	1.05	0.9829	0.1281	0.1281	0.008766	0.008766		M
PCB-159	41:50						0.006218	0.006218		
PCB-162	42:08						0.006854	0.006854		
PCB-167	42:36						0.006671	0.006671		
PCB-156	43:47	1046	1.24	1.1104	0.0257	0.0195	0.009251	0.009251		RQ
PCB-157 (C156)	43:47	1046	1.24	1.1104	0.0257	0.0195	0.009251	0.009251		RQ
PCB-169	46:59						0.006360	0.006360		
S Total Heptachlorobiphenyls					3.268	2.971	0.001463	0.001463		RQ
D PCB-188L	37:00	3840073	1.07	1.3133	92.8	92.8	0.0543	0.0543	92.79	
\$ PCB-178L	40:04	2492909	1.04	1.0313	76.7	76.7	0.0691	0.0691	76.71	
* PCB-180L	45:07	3151003	1.04		100.0	100.0				
D PCB-170L	46:24	2419252	1.04	0.8362	91.8	91.8	0.0852	0.0852	91.82	
D PCB-189L	49:29	5132492	1.07	1.4414	93.2	93.2	0.3820	0.3820	93.17	
PCB-188	37:01						0.000578	0.000578		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:23	16206	0.93	1.4276	0.3627	0.3627	0.000570	0.000570		
PCB-184	37:53	283	1.05	1.3672	0.008554	0.006614	0.000595	0.000595		RQ
PCB-176	38:13	3006	1.05	1.2331	0.0874	0.0779	0.000660	0.000660		RQM
PCB-186	38:42						0.000552	0.000552		
PCB-178	40:05	2897	1.05	0.8946	0.1275	0.1035	0.000910	0.000910		RQ
PCB-175	40:43	440	1.05	0.9524	0.0242	0.0148	0.000854	0.000854		RQ
PCB-187	40:58	28280	1.03	1.1018	0.8201	0.8201	0.000739	0.000739		
PCB-182	41:09						0.000880	0.000880		
PCB-183	41:36	14883	1.16	0.9825	0.4840	0.4840	0.000828	0.000828		M
PCB-185 (C183)	41:36	14883	1.16	0.9825	0.4840	0.4840	0.000828	0.000828		M
PCB-174	41:50	8808	1.05	0.9642	0.3901	0.2919	0.000844	0.000844		RQ
PCB-177	42:16	3730	0.98	0.9773	0.1220	0.1220	0.000833	0.000833		
PCB-181	42:39						0.000856	0.000856		
PCB-171	42:55	1185	1.05	0.9336	0.0837	0.0406	0.000872	0.000872		RQa
PCB-173 (C171)	42:55	1185	1.05	0.9336	0.0837	0.0406	0.000872	0.000872		RQa
PCB-172	44:30						0.000955	0.000955		
PCB-192	44:45						0.000605	0.000605		
PCB-180	45:08	22787	1.05	1.1676	0.6888	0.6236	0.000697	0.000697		RQ
PCB-193 (C180)	45:08	22787	1.05	1.1676	0.6888	0.6236	0.000697	0.000697		RQ
PCB-191	45:30						0.000631	0.000631		
PCB-170	46:25	487	1.05	1.1865	0.0480	0.0170	0.000902	0.000902		RQ
PCB-190	46:56	269	1.05	1.3322	0.0207	0.006452	0.000611	0.000611		RQ
PCB-189	49:30						0.0158	0.0158		
S Total Octachlorobiphenyls					1.910	1.752	0.0106	0.0106		RQ
D PCB-202L	42:21	2693118	0.90	0.9818	87.1	87.1	0.0307	0.0307	87.05	
* PCB-194L	51:35	3821607	0.91		100.0	100.0				
D PCB-205L	52:03	4172135	0.91	1.1786	92.6	92.6	0.0484	0.0484	92.63	
PCB-202	42:21	5387	0.89	1.0359	0.2135	0.1931	0.005814	0.005814		RQM
PCB-201	43:20	2493	0.89	0.9754	0.1211	0.0949	0.006174	0.006174		RQ
PCB-204	43:57						0.005743	0.005743		
PCB-197	44:13	893	0.89	1.1458	0.0477	0.0289	0.005256	0.005256		RQ
PCB-200	44:19						0.005979	0.005979		
PCB-198	47:07	10460	0.89	0.8698	0.5163	0.4465	0.006924	0.006924		RQ
PCB-199 (C198)	47:07	10460	0.89	0.8698	0.5163	0.4465	0.006924	0.006924		RQ
PCB-196	47:45	6989	0.80	0.7806	0.3324	0.3324	0.007714	0.007714		
PCB-203	47:57	9492	0.89	0.9292	0.3793	0.3793	0.006481	0.006481		M
PCB-195	49:19	2536	1.02	0.8263	0.0736	0.0736	0.0256	0.0256		
PCB-194	51:36	8272	0.89	0.9735	0.2262	0.2037	0.0217	0.0217		RQ
PCB-205	52:04						0.0194	0.0194		
S Total Nonachlorobiphenyls							0.3082	0.3082		
D PCB-208L	49:01	3416562	0.79	0.9576	93.4	93.4	0.2205	0.2205	93.36	
D PCB-206L	53:48	2546208	0.81	0.6947	95.9	95.9	0.3040	0.3040	95.91	
PCB-208	49:02						0.2691	0.2691		
PCB-207	49:57						0.2551	0.2551		
PCB-206	53:49						0.3082	0.3082		
D PCB-209L	55:25	2696666	0.71	0.6669	105.8	105.8	0.0762	0.0762	106	
DCB Decachlorobiphenyl	55:26						0.003261	0.003261		
S Polychlorinated biphenyls, Total					56.4		0.0554	0.0554		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Lims ID: 140-37232-A-3-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 04:59:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:04:31 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 21:43:38

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:37	11:39	-1	0.725	4424956	1707837	1057	2642	1616		
202.0766	11:37	11:39	-1	0.725	1394733	539997	3314	8285	163	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:48	-1	0.860	5109543	1660226	1057	2642	1571		
202.0766	13:46	13:48	-1	0.860	1590890	506220	3314	8285	153	3.21(2.66-3.60)	
PCB-1											
188.0393	11:38	11:37	-1	1.001	94889	36776	247	617	149		
190.0363	11:38	11:37	-1	1.001	29434	11517	400	1000	29	3.22(2.66-3.60)	
PCB-2											
188.0393	13:36	13:37	-1	0.988	483046	158448	247	617	641		
190.0363	13:36	13:37	-1	0.988	157014	55178	400	1000	138	3.08(2.66-3.60)	
PCB-3											
188.0393	13:47	13:46	-1	1.001	396786	128725	247	617	521		
190.0363	13:47	13:46	-1	1.001	122501	38485	400	1000	96	3.24(2.66-3.60)	
PCB-4L											
234.0406	14:01	14:03	-1	0.875	1683092	555240	569	1422	976		
236.0376	14:01	14:03	-1	0.875	1075141	364063	215	537	1693	1.57(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	3		3840060	856843	569	1422	1506		
236.0376	16:00	15:59	2		2408792	532782	215	537	2478	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:53	16:52	4	1.204	1398045	220493	569	1422	388		a
236.0376	16:53	16:52	4	1.204	856736	138498	215	537	644	1.63(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:06	20:05	13	1.255	2994554	549035	569	1422	965		a
236.0376	20:06	20:05	13	1.255	1870906	346012	215	537	1609	1.60(1.33-1.79)	
PCB-4											
222.0003	14:02	14:01	-1	1.001	10234	2942	111	277	27		
223.9974	14:02	14:01	-1	1.001	6509	2092	189	472	11	1.57(1.33-1.79)	
PCB-10											
222.0003	14:10						111	277			
223.9974	14:10						189	472			
PCB-9											
222.0003	16:00						111	277			
223.9974	16:00						189	472			
PCB-7											a
222.0003	16:14	16:11	5	1.158	10928	1959	111	277	18		a
223.9974	16:13	16:11	4	1.157	6969	1708	189	472	9	1.57(1.33-1.79)	
PCB-6											RQMa
222.0003	16:28	16:25	4	1.174	12521	3535	111	277	32		M
	Empc Correction				8865	2134	111	277	19		
223.9974	16:27	16:25	3	1.173	5683	1368	189	472	7	2.20(1.33-1.79)	M
PCB-5											
222.0003	16:42						111	277			
223.9974	16:42						189	472			
PCB-8											M
222.0003	16:56	16:53	6	1.207	22301	4272	111	277	38		M
223.9974	16:53	16:53	3	1.204	15295	2499	189	472	13	1.46(1.33-1.79)	M
PCB-14											
222.0003	18:37						111	277			
223.9974	18:37						189	472			
PCB-11											M
222.0003	19:32	19:30	16	0.972	329434	64225	111	277	579		M
223.9974	19:32	19:30	15	0.971	213048	41286	189	472	218	1.55(1.33-1.79)	M
PCB-12											RQMa
222.0003	19:44	19:46	9	0.982	11628	1370	111	277	12		a
	Empc Correction				8444	1293	111	277	12		
223.9974	19:48	19:46	13	0.985	5413	829	189	472	4	2.15(1.33-1.79)	M
PCB-13 (C12)											RQMa
222.0003	19:44	19:46	9	0.982	11628	1370	111	277	12		a
	Empc Correction				8444	1293	111	277	12		
223.9974	19:48	19:46	13	0.985	5413	829	189	472	4	2.15(1.33-1.79)	M
PCB-15											Ma
222.0003	20:07	20:07	13	1.001	18768	3255	111	277	29		a
223.9974	20:09	20:07	15	1.002	12729	2188	189	472	12	1.47(1.33-1.79)	M
PCB-19L											
268.0016	17:13	17:07	6	0.839	991052	180121	735	1837	245		
269.9986	17:13	17:07	6	0.839	893827	173100	600	1500	289	1.11(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:32	20:20	11		2026382	497229	735	1837	677		
269.9986	20:32	20:20	11		1908807	472189	600	1500	787	1.06(0.88-1.20)	
PCB-31L											
268.0016	22:42	22:35	6		5765786	1374625	641	1602	2145		
269.9986	22:42	22:35	6		5488602	1313129	349	872	3763	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:58	22:57	6	1.012	4427609	1022528	641	1602	1595		
269.9986	22:58	22:57	6	1.012	4220708	970664	349	872	2781	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:58	2	1.186	3727669	775385	641	1602	1210		
269.9986	26:55	26:58	2	1.186	3482084	730643	349	872	2094	1.07(0.88-1.20)	
PCB-19											
255.9613	17:11	17:13	3	0.998	1632	418	11	27	38		M
257.9584	17:13	17:13	5	1.000	1750	324	30	75	11	0.93(0.88-1.20)	M
PCB-18											
255.9613	19:15	19:13	20	1.118	8594	2550	11	27	232		M
257.9584	19:15	19:13	20	1.118	8600	1944	30	75	65	1.00(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:15	19:13	20	1.118	8594	2550	11	27	232		M
257.9584	19:15	19:13	20	1.118	8600	1944	30	75	65	1.00(0.88-1.20)	M
PCB-17											
255.9613	19:37	19:35	13	1.140	8367	1548	11	27	141		a
257.9584	19:37	19:35	13	1.140	8548	1782	30	75	59	0.98(0.88-1.20)	a
PCB-27											
255.9613	19:48	19:46	11	1.150	1377	349	11	27	32		RQa
257.9584	19:49	19:46	12	1.151	2859	412	30	75	14	0.48(0.88-1.20)	a
Empc Correction					1324	335	30	75	11		
PCB-24											
255.9613	19:50						11	27			RQU
257.9584	19:50						30	75			
PCB-16											
255.9613	20:03	20:04	11	1.165	4829	950	11	27	86		RQa
257.9584	20:04	20:04	12	1.166	6237	1081	30	75	36	0.77(0.88-1.20)	a
Empc Correction					4643	913	30	75	30		
PCB-32											
255.9613	20:32	20:31	10	1.193	9046	2925	11	27	266		Ma
257.9584	20:33	20:31	11	1.194	10308	2491	30	75	83	0.88(0.88-1.20)	M
PCB-34											
255.9613	21:42						146	365			
257.9584	21:42						162	405			
PCB-23											
255.9613	21:51						146	365			
257.9584	21:51						162	405			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:10	22:04	6	1.288	18555	3602	146	365	25		
257.9584	22:10	22:04	6	1.288	21838	4780	162	405	30	0.85(0.88-1.20)	
Empc Correction					17841	3463	162	405	21		
PCB-29 (C26)											RQ
255.9613	22:10	22:04	6	1.288	18555	3602	146	365	25		
257.9584	22:10	22:04	6	1.288	21838	4780	162	405	30	0.85(0.88-1.20)	
Empc Correction					17841	3463	162	405	21		
PCB-25											a
255.9613	22:23	22:24	5	0.832	10135	1773	146	365	12		a
257.9584	22:24	22:24	6	0.832	10858	2835	162	405	18	0.93(0.88-1.20)	
PCB-31											a
255.9613	22:42	22:42	6	0.844	92454	22054	146	365	151		a
257.9584	22:42	22:42	6	0.844	93119	22510	162	405	139	0.99(0.88-1.20)	
PCB-20											
255.9613	22:59	22:56	4	0.854	95102	21466	146	365	147		
257.9584	23:00	22:56	5	0.855	99571	21427	162	405	132	0.96(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:56	4	0.854	95102	21466	146	365	147		
257.9584	23:00	22:56	5	0.855	99571	21427	162	405	132	0.96(0.88-1.20)	
PCB-21											RQa
255.9613	23:14	23:13	9	0.863	63767	13998	146	365	96		a
257.9584	23:14	23:13	9	0.863	78919	13610	162	405	84	0.81(0.88-1.20)	
Empc Correction					61314	13459	162	405	83		
PCB-33 (C21)											RQa
255.9613	23:14	23:13	9	0.863	63767	13998	146	365	96		a
257.9584	23:14	23:13	9	0.863	78919	13610	162	405	84	0.81(0.88-1.20)	
Empc Correction					61314	13459	162	405	83		
PCB-22											RQM
255.9613	23:38	23:38	5	0.878	39578	7667	146	365	53		a
257.9584	23:38	23:38	5	0.878	53224	11305	162	405	70	0.74(0.88-1.20)	M
Empc Correction					38055	7372	162	405	46		
PCB-36											
255.9613	25:06						146	365			
257.9584	25:06						162	405			
PCB-39											
255.9613	25:28						146	365			
257.9584	25:28						162	405			
PCB-38											
255.9613	26:02						146	365			
257.9584	26:02						162	405			
PCB-35											
255.9613	26:32	26:30	3	0.986	8967	1707	146	365	12		
257.9584	26:32	26:30	3	0.986	9237	2058	162	405	13	0.97(0.88-1.20)	
PCB-37											M
255.9613	26:56	26:56	2	1.001	40240	8712	146	365	60		M
257.9584	26:57	26:56	3	1.001	37739	7387	162	405	46	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:24	20:13	13	0.824	915010	202434	186	465	1088		
303.9597	20:24	20:13	13	0.824	1154756	258225	27	67	9564	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:42	3		2463074	565118	936	2340	604		
303.9597	24:46	24:42	3		3037466	695547	1473	3682	472	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:37	32:37	1	0.970	1452168	286900	936	2340	307		
303.9597	32:37	32:37	1	0.970	1858123	369123	1473	3682	251	0.78(0.65-0.89)	
PCB-81L											
301.9626	33:37	33:39	1	1.358	2474994	497569	936	2340	532		
303.9597	33:37	33:39	1	1.358	3075509	623907	1473	3682	424	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:11	34:14	0	1.380	2667541	499689	936	2340	534		
303.9597	34:11	34:14	0	1.380	3231294	614585	1473	3682	417	0.83(0.65-0.89)	
PCB-54											
289.9224	20:12						44	110			
291.9194	20:12						11	27			
PCB-50											
289.9224	22:28	22:27	6	1.101	5418	1337	57	142	23		RQa
291.9194	22:26	22:27	5	1.100	8526	1729	151	377	11	0.64(0.65-0.89)	a
	Empc Correction				7036	1736	151	377	11		
PCB-53 (C50)											
289.9224	22:28	22:27	6	1.101	5418	1337	57	142	23		RQa
291.9194	22:26	22:27	5	1.100	8526	1729	151	377	11	0.64(0.65-0.89)	a
	Empc Correction				7036	1736	151	377	11		
PCB-45											
289.9224	23:10	23:10	5	1.136	41086	8449	57	142	148		a
291.9194	23:10	23:10	5	1.136	52253	10387	151	377	69	0.79(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:10	23:10	5	1.136	41086	8449	57	142	148		a
291.9194	23:10	23:10	5	1.136	52253	10387	151	377	69	0.79(0.65-0.89)	a
PCB-46											
289.9224	23:24						57	142			
291.9194	23:24						151	377			
PCB-52											
289.9224	24:47	24:46	3	1.216	36824	9381	57	142	165		a
291.9194	24:47	24:46	3	1.216	50924	10747	151	377	71	0.72(0.65-0.89)	a
PCB-43											
289.9224	25:06						57	142			
291.9194	25:06						151	377			
PCB-73 (C43)											
289.9224	25:06						57	142			
291.9194	25:06						151	377			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											a
289.9224	25:16	25:15	6	1.239	19486	4498	57	142	79		a
291.9194	25:16	25:15	6	1.239	26831	5786	151	377	38	0.73(0.65-0.89)	
PCB-69 (C49)											a
289.9224	25:16	25:15	6	1.239	19486	4498	57	142	79		a
291.9194	25:16	25:15	6	1.239	26831	5786	151	377	38	0.73(0.65-0.89)	
PCB-48											a
289.9224	25:32	25:31	3	1.252	8001	1947	57	142	34		a
291.9194	25:33	25:31	3	1.253	11911	2861	151	377	19	0.67(0.65-0.89)	
PCB-44											a
289.9224	25:48	25:47	4	1.265	148089	31065	57	142	545		a
291.9194	25:48	25:47	4	1.265	184763	36953	151	377	245	0.80(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:48	25:47	4	1.265	148089	31065	57	142	545		a
291.9194	25:48	25:47	4	1.265	184763	36953	151	377	245	0.80(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:48	25:47	4	1.265	148089	31065	57	142	545		a
291.9194	25:48	25:47	4	1.265	184763	36953	151	377	245	0.80(0.65-0.89)	
PCB-59											RQa
289.9224	26:05	26:05	2	1.279	6038	1024	57	142	18		a
	Empc Correction				4502	960	57	142	17		
291.9194	26:05	26:05	3	1.280	5848	1247	151	377	8	1.03(0.65-0.89)	
PCB-62 (C59)											RQa
289.9224	26:05	26:05	2	1.279	6038	1024	57	142	18		a
	Empc Correction				4502	960	57	142	17		
291.9194	26:05	26:05	3	1.280	5848	1247	151	377	8	1.03(0.65-0.89)	
PCB-75 (C59)											RQa
289.9224	26:05	26:05	2	1.279	6038	1024	57	142	18		a
	Empc Correction				4502	960	57	142	17		
291.9194	26:05	26:05	3	1.280	5848	1247	151	377	8	1.03(0.65-0.89)	
PCB-42											RQa
289.9224	26:17	26:17	2	1.289	9629	2488	57	142	44		a
291.9194	26:18	26:17	3	1.290	15991	3066	151	377	20	0.60(0.65-0.89)	
	Empc Correction				12505	3231	151	377	21		
PCB-40											RQM
289.9224	26:46	26:47	1	1.313	26531	4698	57	142	82		M
	Empc Correction				22636	3436	57	142	60		
291.9194	26:46	26:47	1	1.313	29398	4463	151	377	30	0.90(0.65-0.89)	M
PCB-41 (C40)											RQM
289.9224	26:46	26:47	1	1.313	26531	4698	57	142	82		M
	Empc Correction				22636	3436	57	142	60		
291.9194	26:46	26:47	1	1.313	29398	4463	151	377	30	0.90(0.65-0.89)	M
PCB-71 (C40)											RQM
289.9224	26:46	26:47	1	1.313	26531	4698	57	142	82		M
	Empc Correction				22636	3436	57	142	60		
291.9194	26:46	26:47	1	1.313	29398	4463	151	377	30	0.90(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-64											Ma
289.9224	26:59	27:00	2	1.323	17164	3653	57	142	64		M
291.9194	27:00	27:00	3	1.324	25552	5185	151	377	34	0.67(0.65-0.89)	
PCB-72											
289.9224	27:47						57	142			
291.9194	27:47						151	377			
PCB-68											
289.9224	28:06	28:04	2	0.836	23999	4658	57	142	82		
291.9194	28:04	28:04	0	0.835	28529	5779	151	377	38	0.84(0.65-0.89)	
PCB-57											
289.9224	28:29						57	142			
291.9194	28:29						151	377			
PCB-58											
289.9224	28:44						57	142			
291.9194	28:44						151	377			
PCB-67											
289.9224	28:54						57	142			
291.9194	28:54						151	377			
PCB-63											
289.9224	29:09						57	142			
291.9194	29:09						151	377			
PCB-61											
289.9224	29:30	29:30	0	0.878	69442	10641	57	142	187		
291.9194	29:31	29:30	1	0.878	82730	12977	151	377	86	0.84(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:30	29:30	0	0.878	69442	10641	57	142	187		
291.9194	29:31	29:30	1	0.878	82730	12977	151	377	86	0.84(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:30	29:30	0	0.878	69442	10641	57	142	187		
291.9194	29:31	29:30	1	0.878	82730	12977	151	377	86	0.84(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:30	29:30	0	0.878	69442	10641	57	142	187		
291.9194	29:31	29:30	1	0.878	82730	12977	151	377	86	0.84(0.65-0.89)	
PCB-66											
289.9224	29:50	29:50	1	0.887	39417	9093	57	142	160		
291.9194	29:50	29:50	1	0.887	52173	10304	151	377	68	0.76(0.65-0.89)	
PCB-55											
289.9224	29:59						57	142			
291.9194	29:59						151	377			
PCB-56											
289.9224	30:31	30:30	1	0.908	22912	4778	57	142	84		
291.9194	30:31	30:30	1	0.908	27679	5350	151	377	35	0.83(0.65-0.89)	
PCB-60											M
289.9224	30:43	30:43	1	0.914	12583	2528	57	142	44		M
291.9194	30:43	30:43	1	0.914	16959	3550	151	377	24	0.74(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-80											
289.9224	31:06						57	142			
291.9194	31:06						151	377			
PCB-79											
289.9224	32:38						57	142			
291.9194	32:38						151	377			
PCB-78											
289.9224	33:11						57	142			
291.9194	33:11						151	377			
PCB-81											
289.9224	33:38						57	142			
291.9194	33:38						151	377			
PCB-77											
289.9224	34:12	34:10	0	1.001	5847	1032	57	142	18		M
291.9194	34:14	34:10	2	1.001	7152	1229	151	377	8	0.82(0.65-0.89)	M
PCB-104L											
337.9207	25:41	25:38	3	0.814	2302156	521927	121	302	4313		
339.9178	25:41	25:38	3	0.814	1454974	335246	110	275	3048	1.58(1.32-1.78)	
PCB-95L											
337.9207	28:38	28:36	2	1.115	950431	199469	121	302	1649		
339.9178	28:38	28:36	2	1.115	597379	125351	110	275	1140	1.59(1.32-1.78)	
PCB-101L											
337.9207	31:32	31:31	1		2072467	438443	121	302	3623		
339.9178	31:32	31:31	1		1285273	273668	110	275	2488	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	1	1.085	2319166	469802	121	302	3883		
339.9178	34:12	34:11	1	1.085	1456762	283830	110	275	2580	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	3294031	640723	2273	5682	282		
339.9178	36:09	36:09	0	1.147	2141208	419527	1629	4072	258	1.54(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	0	1.157	3371342	654651	2273	5682	288		
339.9178	36:29	36:29	0	1.157	2106363	410584	1629	4072	252	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:01	37:00	0	1.174	3589912	728867	2273	5682	321		
339.9178	37:01	37:00	0	1.174	2223340	452350	1629	4072	278	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	0	1.195	3508440	693863	2273	5682	305		
339.9178	37:40	37:40	0	1.195	2253391	437976	1629	4072	269	1.56(1.32-1.78)	
PCB-127L											
337.9207	39:08	39:07	0		3778596	729359	2273	5682	321		
339.9178	39:08	39:07	0		2370794	465260	1629	4072	286	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:44	40:45	-1	1.292	3240852	613381	2273	5682	270		
339.9178	40:44	40:45	-1	1.292	2034775	379725	1629	4072	233	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104											
325.8804	25:42						62	155			
327.8775	25:42						13	32			
PCB-96											
325.8804	26:05						62	155			
327.8775	26:05						13	32			
PCB-103											
325.8804	28:00						62	155			
327.8775	28:00						13	32			
PCB-94											
325.8804	28:13						62	155			
327.8775	28:13						13	32			
PCB-95											
325.8804	28:41	28:39	3	1.117	9501	1881	62	155	30		M
327.8775	28:39	28:39	1	1.115	6200	1583	13	32	122	1.53(1.32-1.78)	M
PCB-93											
325.8804	28:53						62	155			
327.8775	28:53						13	32			
PCB-100 (C93)											
325.8804	28:53						62	155			
327.8775	28:53						13	32			
PCB-98											
325.8804	29:02						62	155			
327.8775	29:02						13	32			
PCB-102 (C98)											
325.8804	29:02						62	155			
327.8775	29:02						13	32			
PCB-88											
325.8804	29:30	29:30	1	1.149	4377	665	62	155	11		RQ
	Empc Correction				2779	802	62	155	13		
327.8775	29:30	29:30	1	1.149	1793	518	13	32	40	2.44(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:30	29:30	1	1.149	4377	665	62	155	11		RQ
	Empc Correction				2779	802	62	155	13		
327.8775	29:30	29:30	1	1.149	1793	518	13	32	40	2.44(1.32-1.78)	
PCB-84											
325.8804	29:46	29:44	2	1.159	5926	1017	62	155	16		RQM
	Empc Correction				2476	714	62	155	12		
327.8775	29:42	29:44	-1	1.157	1598	461	13	32	35	3.71(1.32-1.78)	M
PCB-89											
325.8804	30:14						62	155			
327.8775	30:14						13	32			
PCB-121											
325.8804	30:33						62	155			
327.8775	30:33						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-92											RQMa
325.8804	31:02	30:58	4	0.858	1508	375	62	155	6		a
327.8775	31:01	30:58	3	0.858	1198	397	13	32	31	1.26(1.32-1.78)	M
Empc Correction					972	241	13	32	19		
PCB-90											RQM
325.8804	31:34	31:33	3	1.229	13949	2734	62	155	44		M
Empc Correction					9552	2228	62	155	36		
327.8775	31:34	31:33	3	1.229	6163	1438	13	32	111	2.26(1.32-1.78)	
PCB-101 (C90)											RQM
325.8804	31:34	31:33	3	1.229	13949	2734	62	155	44		M
Empc Correction					9552	2228	62	155	36		
327.8775	31:34	31:33	3	1.229	6163	1438	13	32	111	2.26(1.32-1.78)	
PCB-113 (C90)											RQM
325.8804	31:34	31:33	3	1.229	13949	2734	62	155	44		M
Empc Correction					9552	2228	62	155	36		
327.8775	31:34	31:33	3	1.229	6163	1438	13	32	111	2.26(1.32-1.78)	
PCB-83											M
325.8804	32:10	32:08	2	1.252	5147	1227	62	155	20		M
327.8775	32:07	32:08	0	1.251	2976	894	13	32	69	1.73(1.32-1.78)	
PCB-99 (C83)											M
325.8804	32:10	32:08	2	1.252	5147	1227	62	155	20		M
327.8775	32:07	32:08	0	1.251	2976	894	13	32	69	1.73(1.32-1.78)	
PCB-112											
325.8804	32:17						62	155			
327.8775	32:17						13	32			
PCB-86											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M
PCB-87 (C86)											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M
PCB-97 (C86)											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M
PCB-109 (C86)											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M
PCB-119 (C86)											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:43	32:45	7	1.274	16508	1587	62	155	26		M
Empc Correction					12289	1522	62	155	25		
327.8775	32:45	32:45	9	1.275	7929	982	13	32	76	2.08(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-85											M
325.8804	33:24	33:24	5	1.301	3281	797	62	155	13		M
327.8775	33:23	33:24	3	1.300	2378	570	13	32	44	1.38(1.32-1.78)	
PCB-116 (C85)											M
325.8804	33:24	33:24	5	1.301	3281	797	62	155	13		M
327.8775	33:23	33:24	3	1.300	2378	570	13	32	44	1.38(1.32-1.78)	
PCB-117 (C85)											M
325.8804	33:24	33:24	5	1.301	3281	797	62	155	13		M
327.8775	33:23	33:24	3	1.300	2378	570	13	32	44	1.38(1.32-1.78)	
PCB-110											M
325.8804	33:32	33:32	-1	1.306	17152	3090	62	155	50		M
327.8775	33:33	33:32	0	1.307	10111	2529	13	32	195	1.70(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:32	33:32	-1	1.306	17152	3090	62	155	50		M
327.8775	33:33	33:32	0	1.307	10111	2529	13	32	195	1.70(1.32-1.78)	M
PCB-82											RQa
325.8804	33:51	33:53	0	1.318	2571	450	62	155	7		a
	Empc Correction				1526	530	62	155	9		
327.8775	33:48	33:53	-3	1.316	985	342	13	32	26	2.61(1.32-1.78)	
PCB-111											
325.8804	34:15						62	155			
327.8775	34:15						13	32			
PCB-120											
325.8804	34:43						62	155			
327.8775	34:43						13	32			
PCB-108											
325.8804	35:53						108	270			
327.8775	35:53						91	227			
PCB-124 (C108)											
325.8804	35:53						108	270			
327.8775	35:53						91	227			
PCB-107											
325.8804	36:07						108	270			
327.8775	36:07						91	227			
PCB-123											
325.8804	36:11						108	270			
327.8775	36:11						91	227			
PCB-106											
325.8804	36:18						108	270			
327.8775	36:18						91	227			
PCB-118											
325.8804	36:31	36:30	1	1.001	15776	3606	108	270	33		
327.8775	36:29	36:30	-1	1.000	9841	1889	91	227	21	1.60(1.32-1.78)	
PCB-122											
325.8804	36:52						108	270			
327.8775	36:52						91	227			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114											
325.8804	37:02						108	270			
327.8775	37:02						91	227			
PCB-105											
325.8804	37:42	37:42	0	1.001	7147	1904	108	270	18		RQM
327.8775	37:42	37:42	0	1.001	6225	1602	91	227	18	1.15(1.32-1.78)	M
Empc Correction					4610	1228	91	227	13		
PCB-127											
325.8804	39:09						108	270			
327.8775	39:09						91	227			
PCB-126											
325.8804	40:46						108	270			
327.8775	40:46						91	227			
PCB-155L											
371.8817	31:17	31:15	1	0.790	1740142	356310	65	162	5482		
373.8788	31:17	31:15	1	0.790	1366009	278604	86	215	3240	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:19	0	0.900	1218433	236636	1207	3017	196		
373.8788	38:20	38:19	0	0.900	974925	189977	945	2362	201	1.25(1.05-1.43)	
PCB-138L											
371.8817	39:36	39:36	0		2348466	446117	1207	3017	370		
373.8788	39:36	39:36	0		1856415	354030	945	2362	375	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:34	-1	1.075	2564772	486795	1207	3017	403		
373.8788	42:35	42:34	-1	1.075	2022675	386333	945	2362	409	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:46	43:43	2	1.105	5426604	714931	1207	3017	592		
373.8788	43:46	43:43	2	1.105	4227435	550572	945	2362	583	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:46	43:43	2	1.105	5426604	714931	1207	3017	592		
373.8788	43:46	43:43	2	1.105	4227435	550572	945	2362	583	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:57	0	1.186	2579762	489516	1207	3017	406		
373.8788	46:58	46:57	0	1.186	2044240	389415	945	2362	412	1.26(1.05-1.43)	
PCB-155											
359.8415	31:19						3	7			
361.8385	31:19						3	7			
PCB-152											
359.8415	31:32						3	7			
361.8385	31:32						3	7			
PCB-150											
359.8415	31:41						3	7			
361.8385	31:41						3	7			
PCB-136											
359.8415	32:03	32:06	-1	1.025	1410	498	3	7	166		RQ
Empc Correction					171	84	3	7	28		
361.8385	32:04	32:06	0	1.025	138	68	3	7	23	10.22(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-145											
359.8415	32:21						3	7			
361.8385	32:21						3	7			
PCB-148											
359.8415	33:51						3	7			
361.8385	33:51						3	7			
PCB-135											
359.8415	34:26	34:27	0	1.101	4621	790	3	7	263		M
361.8385	34:27	34:27	1	1.101	3326	730	3	7	243	1.39(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:26	34:27	0	1.101	4621	790	3	7	263		M
361.8385	34:27	34:27	1	1.101	3326	730	3	7	243	1.39(1.05-1.43)	M
PCB-154											
359.8415	34:41						3	7			
361.8385	34:41						3	7			
PCB-144											
359.8415	35:00						3	7			
361.8385	35:00						3	7			
PCB-147											
359.8415	35:22	35:19	0	1.131	13500	2538	17	42	149		
361.8385	35:22	35:19	0	1.131	11709	2978	9	22	331	1.15(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:22	35:19	0	1.131	13500	2538	17	42	149		
361.8385	35:22	35:19	0	1.131	11709	2978	9	22	331	1.15(1.05-1.43)	
PCB-134											
359.8415	35:41						17	42			
361.8385	35:41						9	22			
PCB-143 (C134)											
359.8415	35:41						17	42			
361.8385	35:41						9	22			
PCB-139											
359.8415	35:58						17	42			
361.8385	35:58						9	22			
PCB-140 (C139)											
359.8415	35:58						17	42			
361.8385	35:58						9	22			
PCB-131											
359.8415	36:11						17	42			
361.8385	36:11						9	22			
PCB-142											
359.8415	36:19						17	42			
361.8385	36:19						9	22			
PCB-132											
359.8415	36:38	36:39	0	1.171	4408	934	17	42	55		
361.8385	36:38	36:39	0	1.171	3224	1011	9	22	112	1.37(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-133											
359.8415	37:07						17	42			
361.8385	37:07						9	22			
PCB-165											
359.8415	37:29						17	42			
361.8385	37:29						9	22			
PCB-146											
359.8415	37:46	37:45	0	0.887	714	244	17	42	14	0.79(1.05-1.43)	RQ
361.8385	37:45	37:45	0	0.886	901	310	9	22	34		
Empc Correction				575	196	9	22	22			
PCB-161											
359.8415	37:52						17	42			
361.8385	37:52						9	22			
PCB-153											
359.8415	38:22	38:20	-1	0.901	19923	3304	17	42	194	1.63(1.05-1.43)	RQ
Empc Correction				15186	2762	17	42	162			
361.8385	38:23	38:20	0	0.901	12247	2228	9	22	248		
PCB-168 (C153)											
359.8415	38:22	38:20	-1	0.901	19923	3304	17	42	194	1.63(1.05-1.43)	RQ
Empc Correction				15186	2762	17	42	162			
361.8385	38:23	38:20	0	0.901	12247	2228	9	22	248		
PCB-141											
359.8415	38:34	38:35	0	0.906	2413	535	17	42	31	1.15(1.05-1.43)	M M
361.8385	38:34	38:35	0	0.906	2101	615	9	22	68		
PCB-130											
359.8415	38:58						17	42			
361.8385	38:58						9	22			
PCB-137											
359.8415	39:12	39:12	0	0.920	419	175	17	42	10	1.47(1.05-1.43)	RQ
Empc Correction				353	197	17	42	12			
361.8385	39:10	39:12	-1	0.920	285	159	9	22	18		
PCB-164											
359.8415	39:20	39:19	1	0.924	846	187	17	42	11	0.65(1.05-1.43)	RQM M
361.8385	39:19	39:19	0	0.923	1308	430	9	22	48		
Empc Correction				682	150	9	22	17			
PCB-129											
359.8415	39:38	39:38	0	0.931	13232	2594	17	42	153	1.70(1.05-1.43)	RQM M
Empc Correction				9675	2678	17	42	158			
361.8385	39:38	39:38	0	0.931	7803	2160	9	22	240		
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.931	13232	2594	17	42	153	1.70(1.05-1.43)	RQM M
Empc Correction				9675	2678	17	42	158			
361.8385	39:38	39:38	0	0.931	7803	2160	9	22	240		
PCB-160 (C129)											
359.8415	39:38	39:38	0	0.931	13232	2594	17	42	153	1.70(1.05-1.43)	RQM M
Empc Correction				9675	2678	17	42	158			
361.8385	39:38	39:38	0	0.931	7803	2160	9	22	240		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-163 (C129)											RQM
359.8415	39:38	39:38	0	0.931	13232	2594	17	42	153		
	Empc Correction				9675	2678	17	42	158		
361.8385	39:38	39:38	0	0.931	7803	2160	9	22	240	1.70(1.05-1.43)	M
PCB-158											RQ
359.8415	40:00	40:00	-1	0.939	1185	225	17	42	13		
361.8385	40:03	40:00	3	0.940	1499	514	9	22	57	0.79(1.05-1.43)	
	Empc Correction				955	181	9	22	20		
PCB-128											M
359.8415	40:55	40:51	4	0.961	3037	541	17	42	32		M
361.8385	40:56	40:51	5	0.961	2903	657	9	22	73	1.05(1.05-1.43)	
PCB-166 (C128)											M
359.8415	40:55	40:51	4	0.961	3037	541	17	42	32		M
361.8385	40:56	40:51	5	0.961	2903	657	9	22	73	1.05(1.05-1.43)	
PCB-159											
359.8415	41:49						17	42			
361.8385	41:49						9	22			
PCB-162											
359.8415	42:07						17	42			
361.8385	42:07						9	22			
PCB-167											
359.8415	42:35						17	42			
361.8385	42:35						9	22			
PCB-156											RQ
359.8415	43:47	43:41	0	1.000	909	191	17	42	11		
	Empc Correction				579	168	17	42	10		
361.8385	43:46	43:41	-1	1.000	467	136	9	22	15	1.95(1.05-1.43)	
PCB-157 (C156)											RQ
359.8415	43:47	43:41	0	1.000	909	191	17	42	11		
	Empc Correction				579	168	17	42	10		
361.8385	43:46	43:41	-1	1.000	467	136	9	22	15	1.95(1.05-1.43)	
PCB-169											
359.8415	46:59						17	42			
361.8385	46:59						9	22			
PCB-188L											
405.8428	37:00	36:58	1	0.820	1985042	394130	123	307	3204		
407.8398	37:00	36:58	1	0.820	1855031	367553	49	122	7501	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:04	40:01	1	0.888	1269411	244317	123	307	1986		
407.8398	40:04	40:01	1	0.888	1223498	238755	49	122	4873	1.04(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:07	0		1606137	303960	123	307	2471		
407.8398	45:07	45:07	0		1544866	299545	49	122	6113	1.04(0.89-1.21)	
PCB-170L											
405.8428	46:24	46:22	0	1.028	1234116	245619	123	307	1997		
407.8398	46:24	46:22	0	1.028	1185136	221537	49	122	4521	1.04(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-189L											
405.8428	49:29	49:27	0	1.097	2647437	497888	1086	2715	458		
407.8398	49:29	49:27	0	1.097	2485055	457456	517	1292	885	1.07(0.89-1.21)	
PCB-188											
393.8025	37:02						1	2			
395.7995	37:02						1	2			
PCB-179											
393.8025	37:23	37:23	0	1.010	7801	1955	1	2	1955		
395.7995	37:24	37:23	1	1.011	8405	1873	1	2	1873	0.93(0.89-1.21)	
PCB-184											
393.8025	37:53	37:51	2	1.024	145	63	1	2	63		RQ
395.7995	37:53	37:51	1	1.024	221	114	1	2	114	0.66(0.89-1.21)	
Empc Correction					138	60	1	2	60		
PCB-176											
393.8025	38:13	38:13	-1	1.033	1540	517	1	2	517		RQM
395.7995	38:16	38:13	2	1.034	1831	473	1	2	473	0.84(0.89-1.21)	M
Empc Correction					1466	492	1	2	492		
PCB-186											
393.8025	38:43						1	2			
395.7995	38:43						1	2			
PCB-178											
393.8025	40:05	40:03	1	1.083	1484	405	1	2	405		RQ
395.7995	40:04	40:03	-1	1.083	2087	475	1	2	475	0.71(0.89-1.21)	
Empc Correction					1413	385	1	2	385		
PCB-175											
393.8025	40:43	40:42	1	1.100	505	197	1	2	197		RQ
Empc Correction					225	133	1	2	133		
395.7995	40:43	40:42	1	1.100	215	127	1	2	127	2.35(0.89-1.21)	
PCB-187											
393.8025	40:58	40:54	0	1.107	14332	2723	1	2	2723		
395.7995	40:59	40:54	1	1.108	13948	3146	1	2	3146	1.03(0.89-1.21)	
PCB-182											
393.8025	41:10						1	2			
395.7995	41:10						1	2			
PCB-183											
393.8025	41:36	41:36	2	1.124	8000	1236	1	2	1236		M
395.7995	41:33	41:36	-1	1.123	6883	912	1	2	912	1.16(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:36	41:36	2	1.124	8000	1236	1	2	1236		M
395.7995	41:33	41:36	-1	1.123	6883	912	1	2	912	1.16(0.89-1.21)	M
PCB-174											
393.8025	41:50	41:50	0	1.131	7473	1719	1	2	1719		RQ
Empc Correction					4511	982	1	2	982		
395.7995	41:50	41:50	0	1.131	4297	936	1	2	936	1.74(0.89-1.21)	
PCB-177											
393.8025	42:16	42:15	0	1.142	1844	676	1	2	676		
395.7995	42:17	42:15	1	1.143	1886	331	1	2	331	0.98(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-181											
393.8025	42:39						1	2			
395.7995	42:39						1	2			
PCB-171											
393.8025	42:55	42:55	3	1.160	607	147	1	2	147	0.33(0.89-1.21)	RQa
395.7995	42:51	42:55	-1	1.158	1839	465	1	2	465		a
Empc Correction				578	140	1	2	140			
PCB-173 (C171)											
393.8025	42:55	42:55	3	1.160	607	147	1	2	147	0.33(0.89-1.21)	RQa
395.7995	42:51	42:55	-1	1.158	1839	465	1	2	465		a
Empc Correction				578	140	1	2	140			
PCB-172											
393.8025	44:30						1	2			
395.7995	44:30						1	2			
PCB-192											
393.8025	44:45						1	2			
395.7995	44:45						1	2			
PCB-180											
393.8025	45:08	45:08	2	0.912	14055	2983	1	2	2983	1.26(0.89-1.21)	RQ
Empc Correction				11671	2425	1	2	2425			
395.7995	45:08	45:08	2	0.912	11116	2310	1	2	2310		
PCB-193 (C180)											
393.8025	45:08	45:08	2	0.912	14055	2983	1	2	2983	1.26(0.89-1.21)	RQ
Empc Correction				11671	2425	1	2	2425			
395.7995	45:08	45:08	2	0.912	11116	2310	1	2	2310		
PCB-191											
393.8025	45:29						1	2			
395.7995	45:29						1	2			
PCB-170											
393.8025	46:25	46:26	0	0.938	1139	422	1	2	422	4.79(0.89-1.21)	RQ
Empc Correction				249	99	1	2	99			
395.7995	46:27	46:26	2	0.939	238	95	1	2	95		
PCB-190											
393.8025	46:56	46:55	1	0.948	138	52	1	2	52	0.19(0.89-1.21)	RQ
395.7995	46:57	46:55	2	0.949	725	274	1	2	274		
Empc Correction				131	49	1	2	49			
PCB-189											
393.8025	49:31						34	85			
395.7995	49:31						24	60			
PCB-202L											
439.8038	42:21	42:19	1	0.821	1276443	249147	25	62	9966	0.90(0.76-1.02)	
441.8008	42:21	42:19	1	0.821	1416675	282233	48	120	5880		
PCB-194L											
439.8038	51:35	51:35	0		1816854	342577	97	242	3532	0.91(0.76-1.02)	
441.8008	51:35	51:35	0		2004753	385209	69	172	5583		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:03	52:02	0	1.009	1992779	376135	97	242	3878		
441.8008	52:03	52:02	0	1.009	2179356	404132	69	172	5857	0.91(0.76-1.02)	
PCB-202											
427.7635	42:21	42:23	-2	1.000	2537	659	10	25	66		RQM
429.7606	42:24	42:23	1	1.001	3420	809	3	7	270	0.74(0.76-1.02)	M
Empc Correction					2850	740	3	7	247		
PCB-201											
427.7635	43:20	43:18	3	1.023	1174	218	10	25	22		RQ
429.7606	43:20	43:18	3	1.023	2008	581	3	7	194	0.58(0.76-1.02)	
Empc Correction					1319	244	3	7	81		
PCB-204											
427.7635	43:58						10	25			
429.7606	43:58						3	7			
PCB-197											
427.7635	44:13	44:11	3	1.044	1000	235	10	25	24		RQ
Empc Correction					420	144	10	25	14		
429.7606	44:17	44:11	6	1.045	473	162	3	7	54	2.11(0.76-1.02)	
PCB-200											
427.7635	44:19						10	25			
429.7606	44:19						3	7			
PCB-198											
427.7635	47:07	47:05	3	1.112	4926	1983	10	25	198		RQ
429.7606	47:08	47:05	4	1.113	7168	1531	3	7	510	0.69(0.76-1.02)	
Empc Correction					5534	2228	3	7	743		
PCB-199 (C198)											
427.7635	47:07	47:05	3	1.112	4926	1983	10	25	198		RQ
429.7606	47:08	47:05	4	1.113	7168	1531	3	7	510	0.69(0.76-1.02)	
Empc Correction					5534	2228	3	7	743		
PCB-196											
427.7635	47:45	47:44	0	0.917	3107	452	10	25	45		
429.7606	47:45	47:44	1	0.917	3882	673	3	7	224	0.80(0.76-1.02)	
PCB-203											
427.7635	47:57	47:57	1	0.921	4482	975	10	25	98		M
429.7606	47:57	47:57	1	0.921	5010	1329	3	7	443	0.89(0.76-1.02)	M
PCB-195											
427.7635	49:19	49:16	3	0.947	1282	427	50	125	9		
429.7606	49:19	49:16	3	0.947	1254	287	16	40	18	1.02(0.76-1.02)	
PCB-194											
427.7635	51:36	51:35	0	0.991	4809	1012	50	125	20		RQ
Empc Correction					3895	811	50	125	16		
429.7606	51:36	51:35	0	0.991	4377	912	16	40	57	1.10(0.76-1.02)	
PCB-205											
427.7635	52:05						50	125			
429.7606	52:05						16	40			
PCB-208L											
473.7648	49:01	48:59	0	0.950	1513181	284613	279	697	1020		
475.7619	49:01	48:59	0	0.950	1903381	361335	336	840	1075	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:48	53:47	0	1.043	1140342	213626	279	697	766		
475.7619	53:48	53:47	0	1.043	1405866	266992	336	840	795	0.81(0.65-0.89)	
PCB-208											
461.7246	49:01						62	155			
463.7216	49:01						729	1822			
PCB-207											
461.7246	49:57						62	155			
463.7216	49:57						729	1822			
PCB-206											
461.7246	53:49						62	155			
463.7216	53:49						729	1822			
PCB-209L											
507.7258	55:25	55:23	1	1.074	1117254	197892	69	172	2868		
509.7229	55:25	55:23	1	1.074	1579412	275902	79	197	3492	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:27						4	10			
497.6826	55:27						3	7			

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

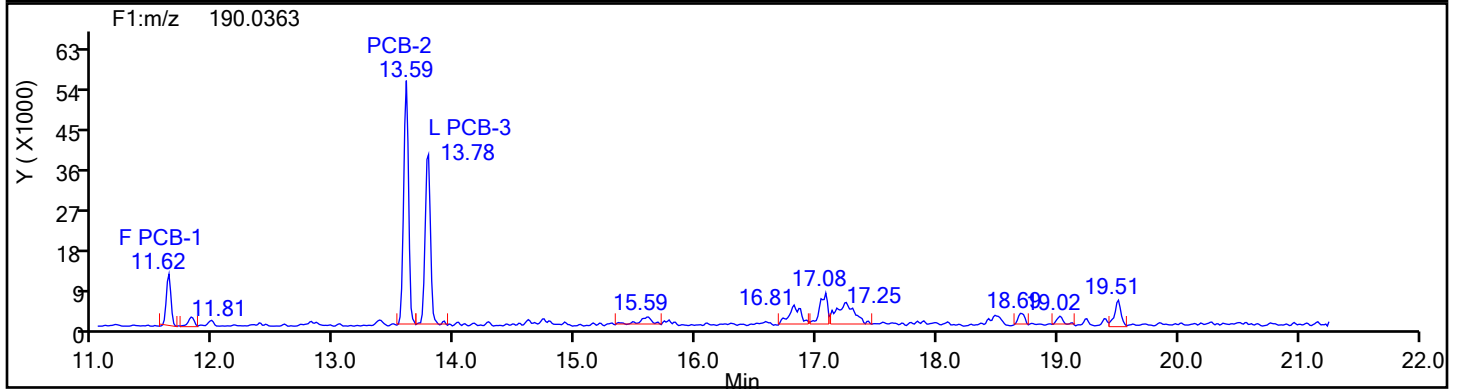
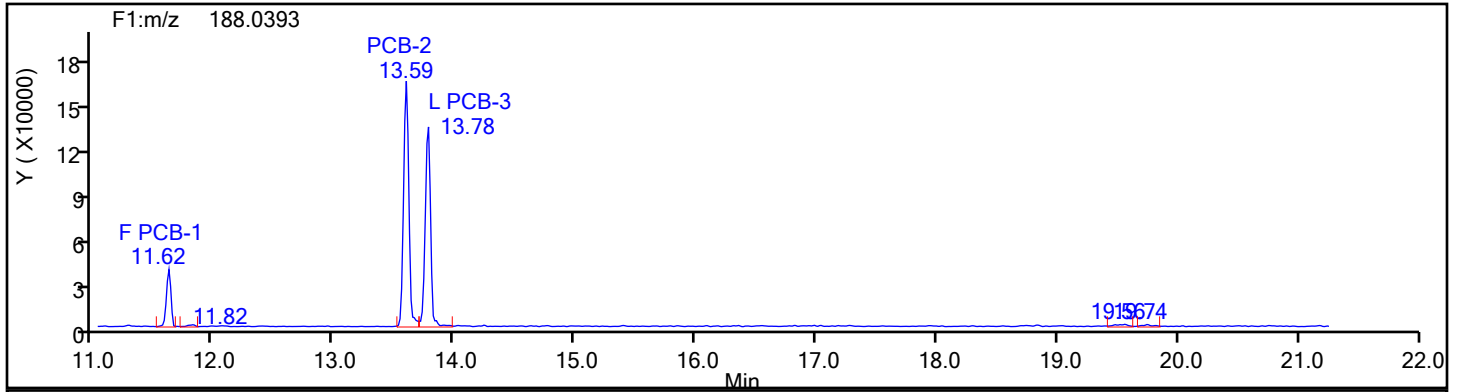
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U - Marked Undetected

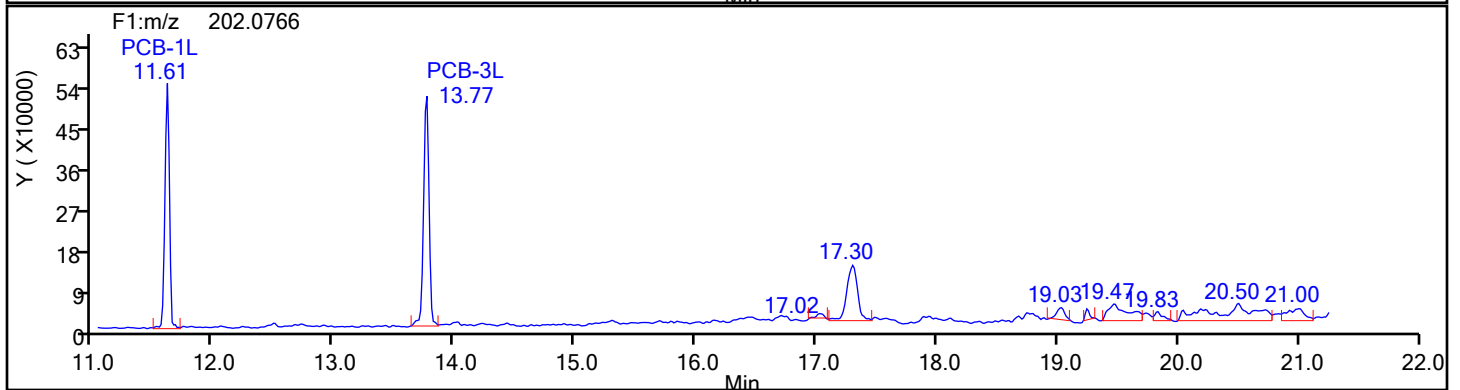
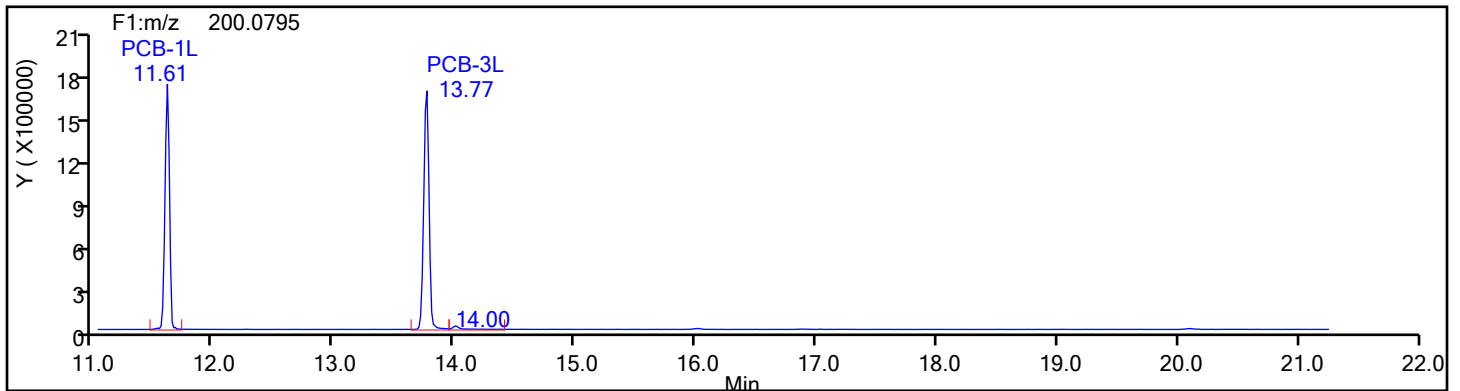
a - User Assigned ID

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

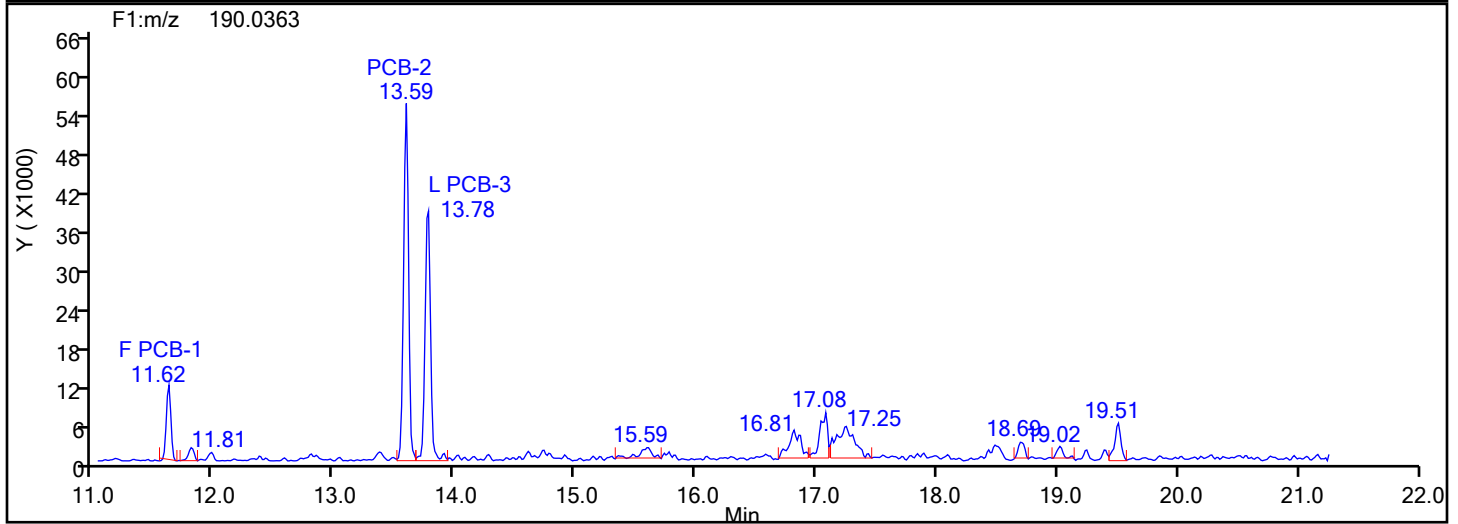
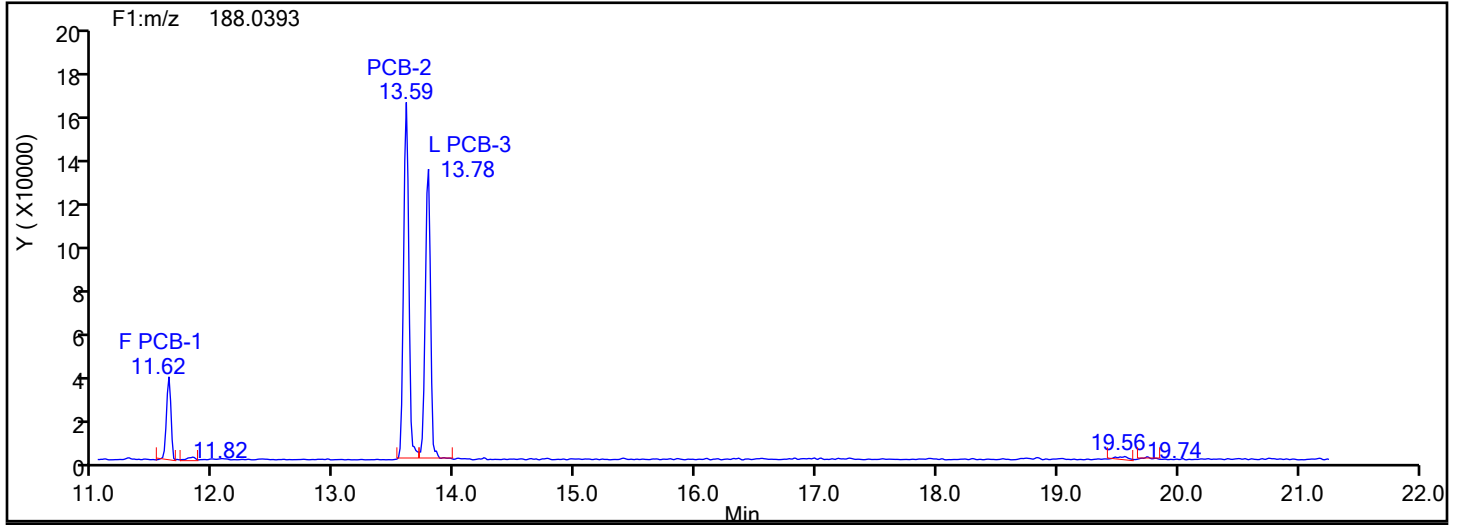


MoPCB F1 Standards

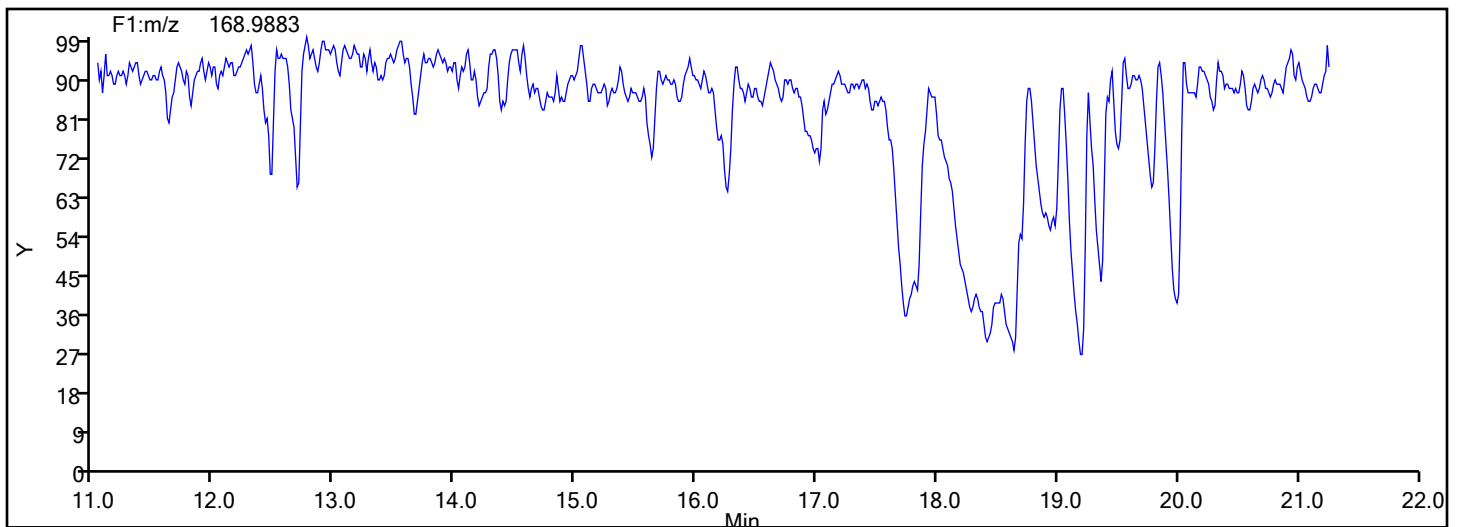


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

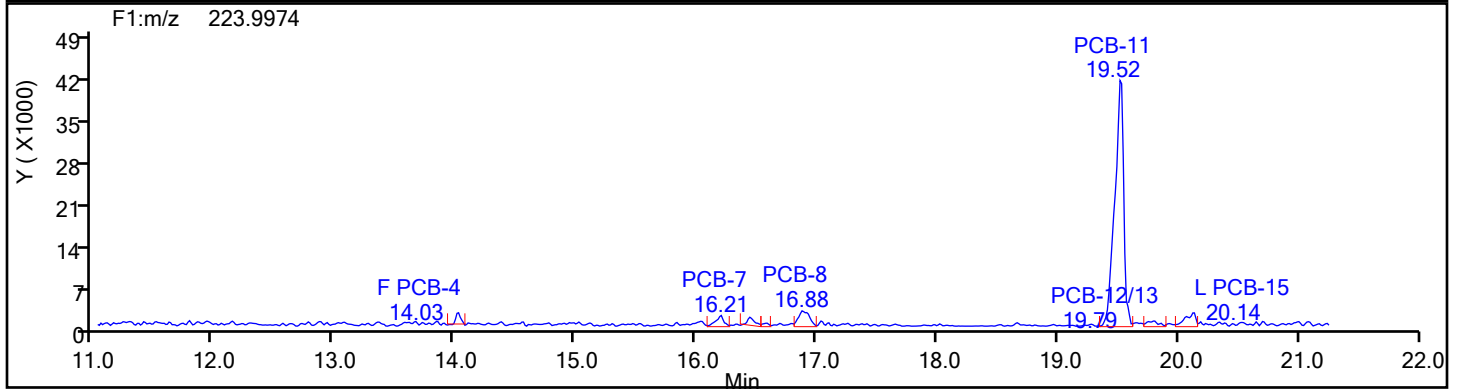
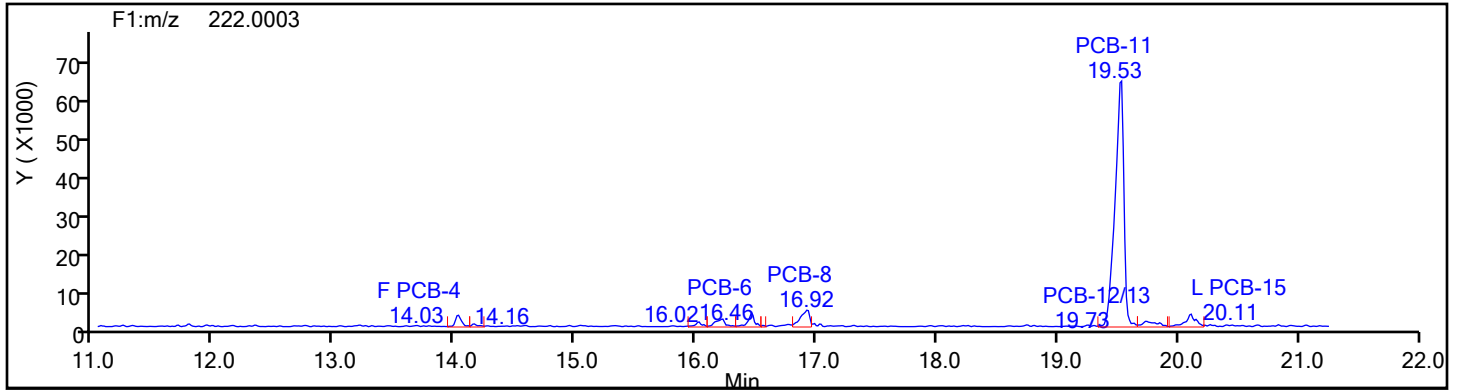


MoPCB F1 Lock Mass

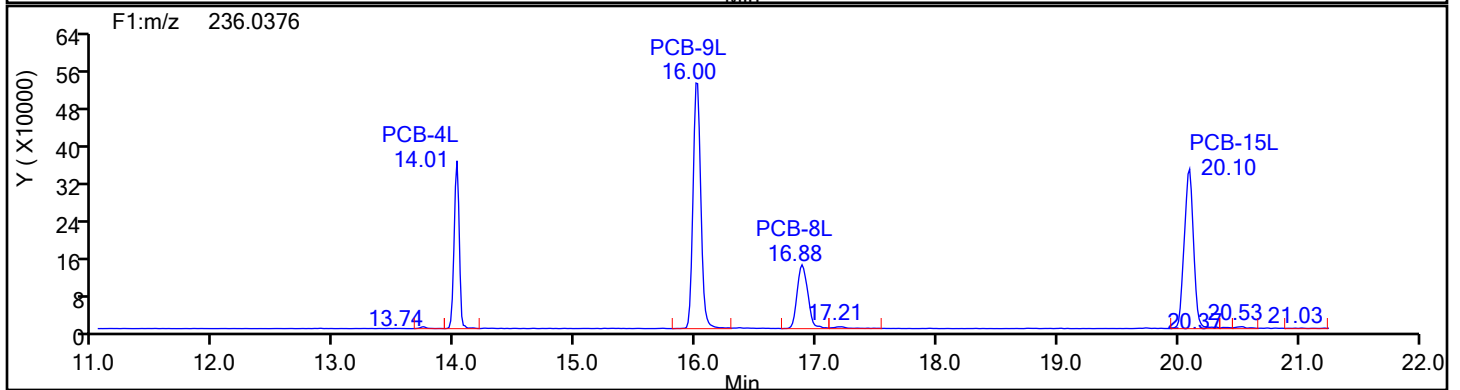
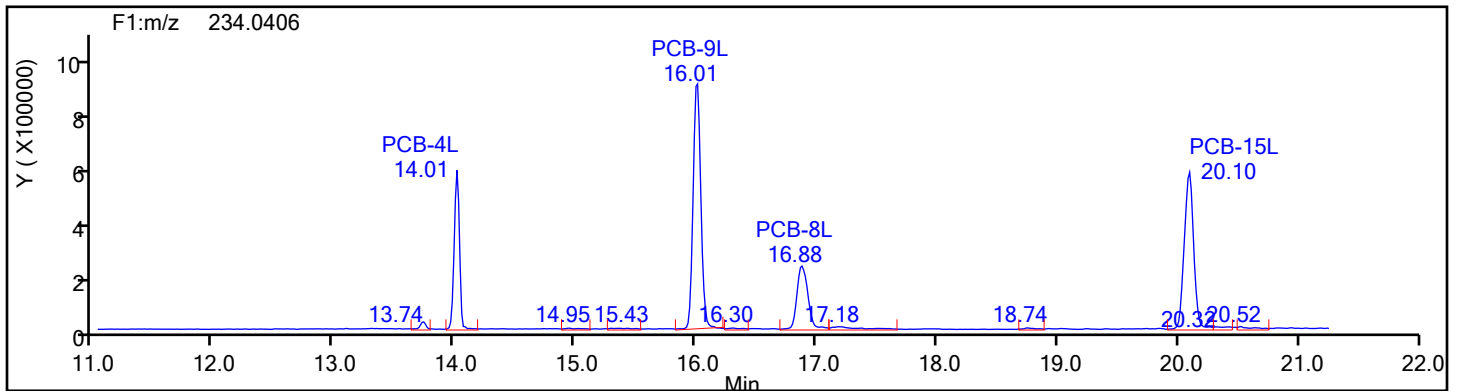


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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

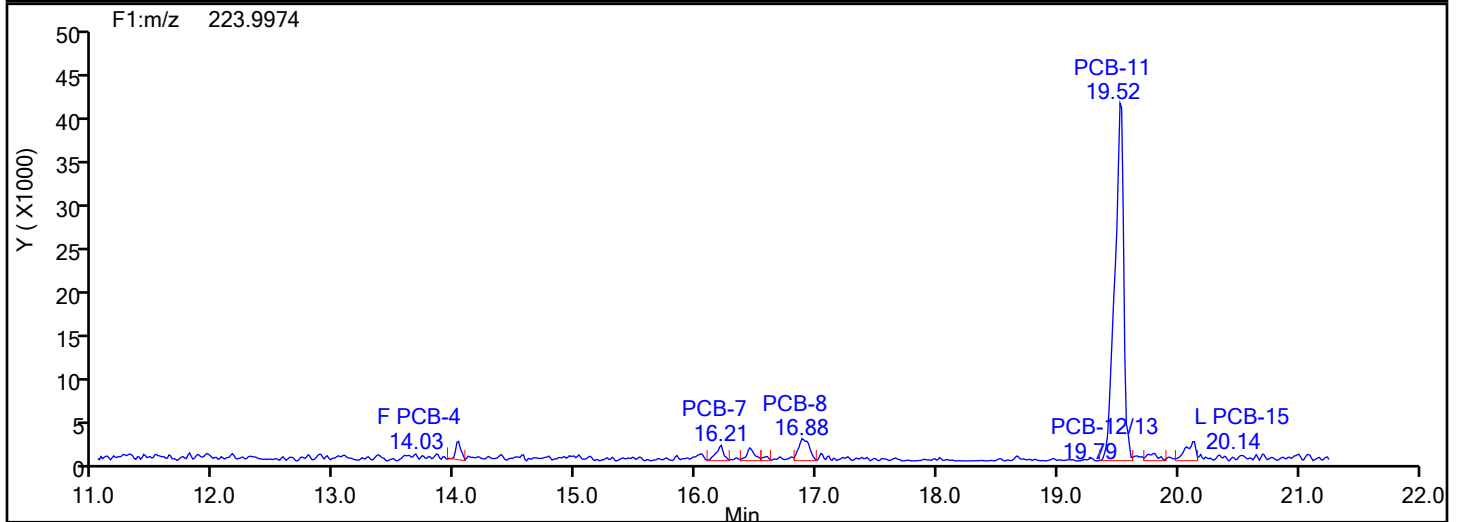
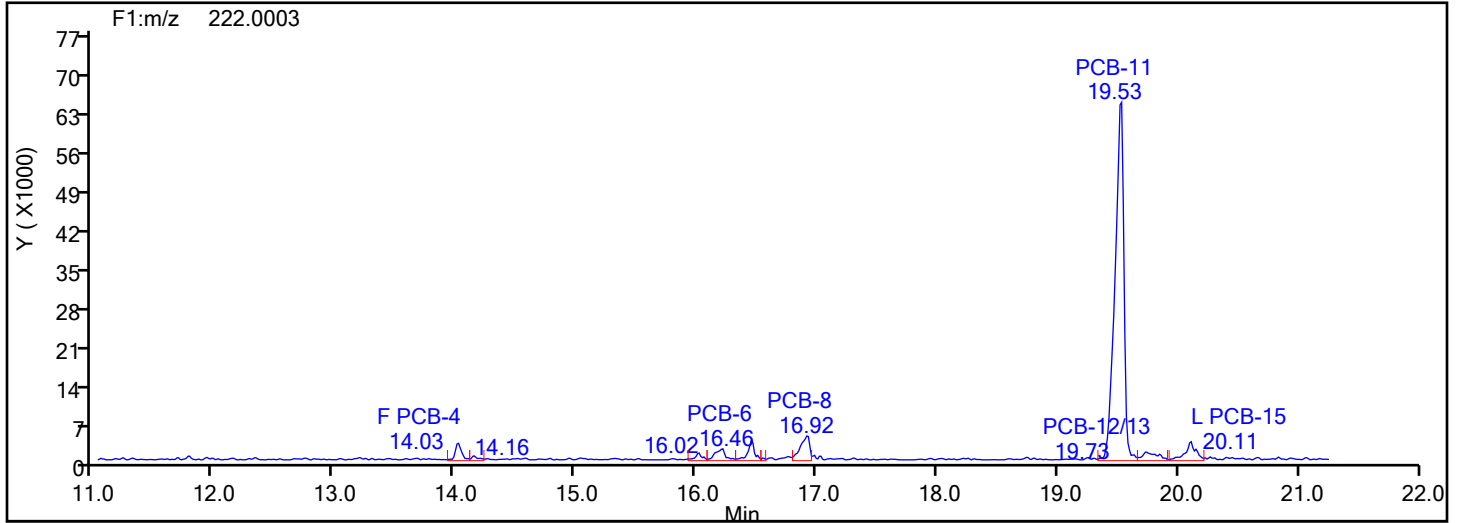


DiPCB F1 Standards

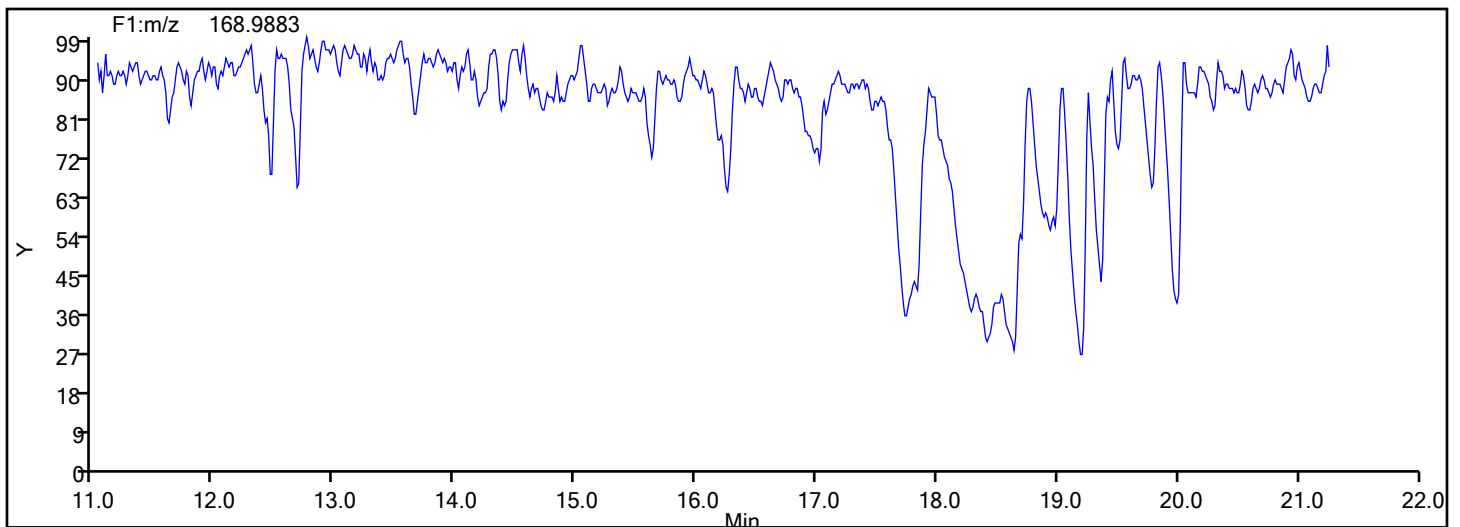


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Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

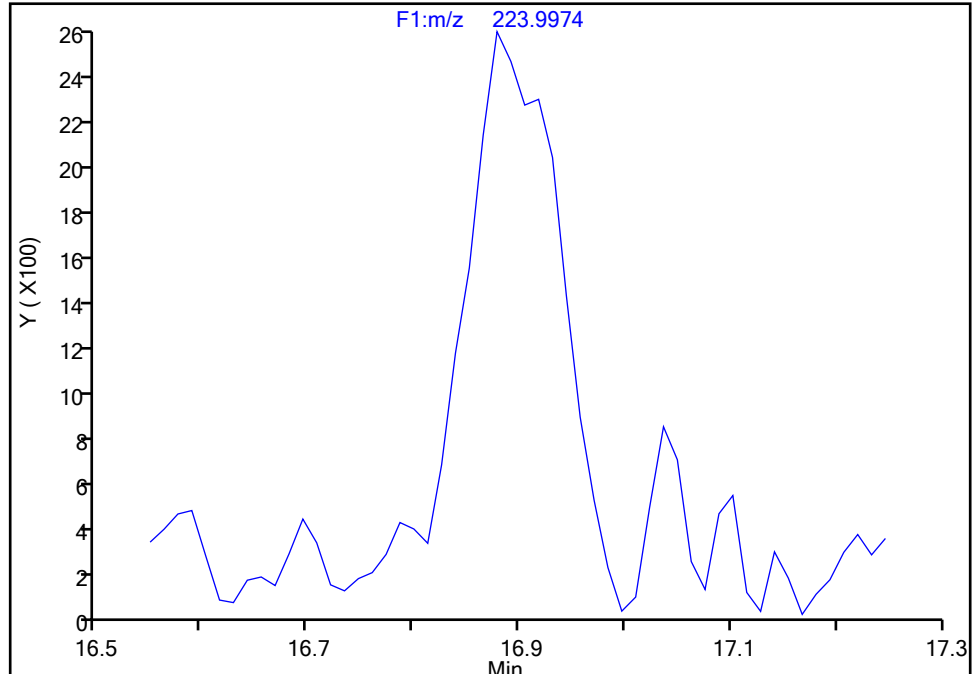
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 2

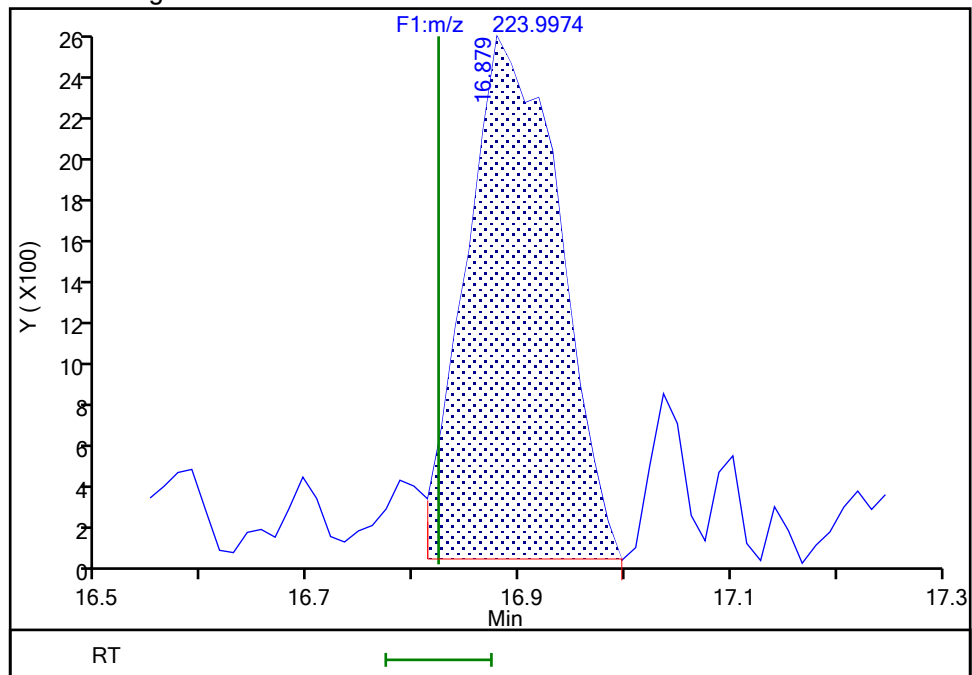
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Expected RT: 16.82

Processing Integration Results



RT: 16.88
Area: 15295
Amount: 0.620748
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:17:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

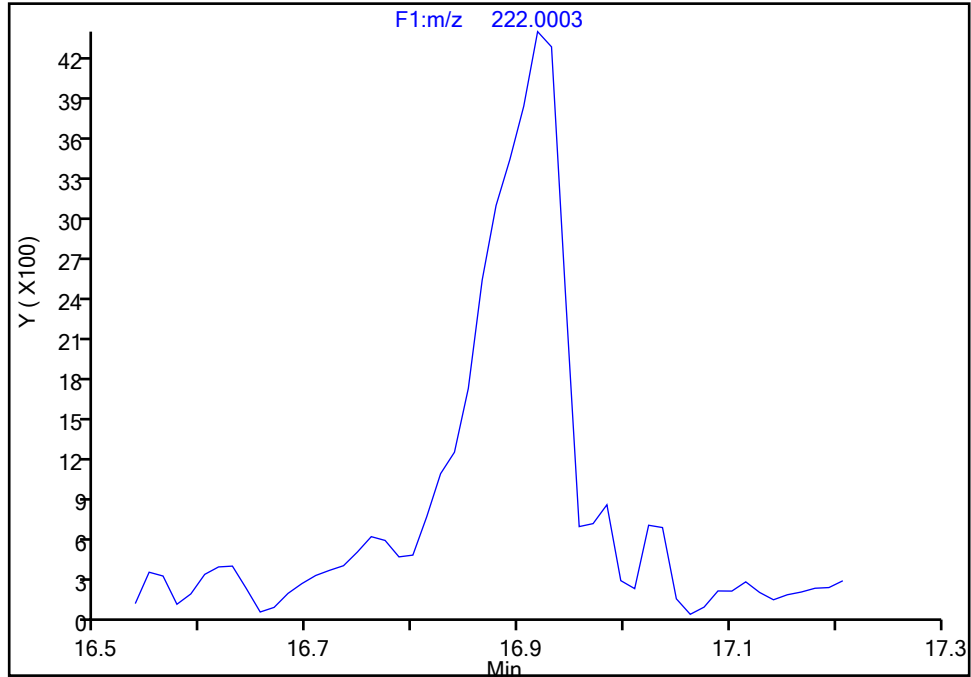
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

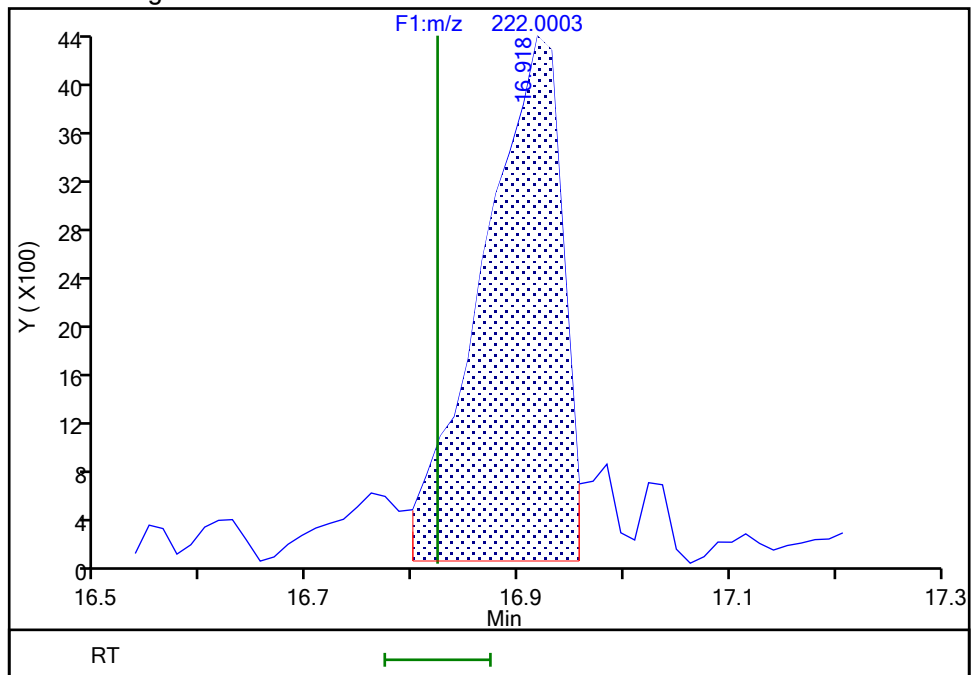
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Expected RT: 16.82

Processing Integration Results



RT: 16.92
Area: 22301
Amount: 0.620748
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:17:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1196 of 3050

BASFWC-McIntosh-009197

9/6/2024

4:11:20 PM

Eurofins Knoxville

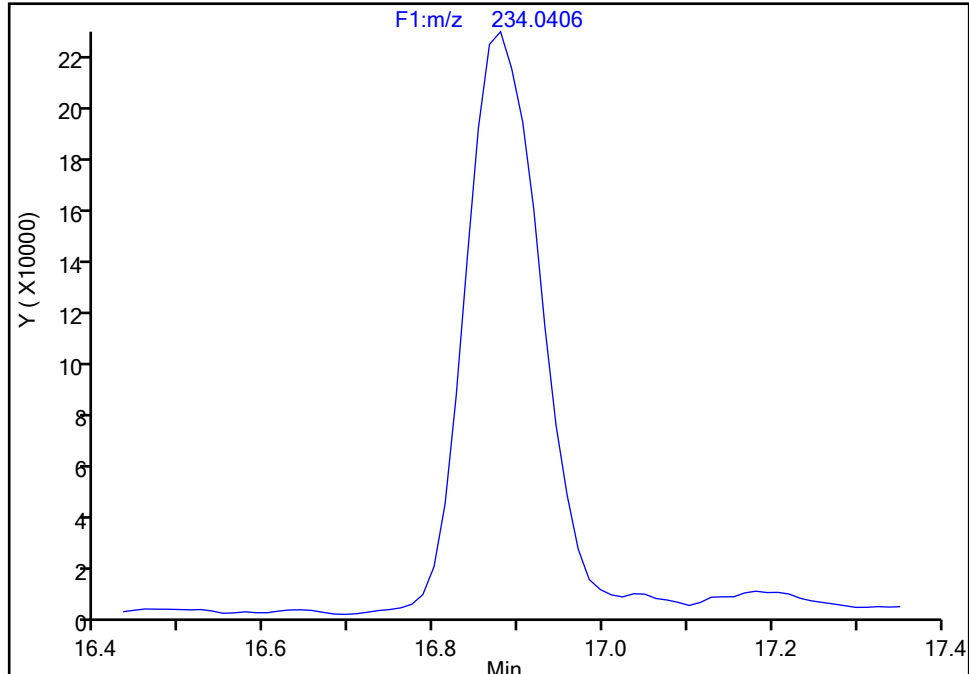
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Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

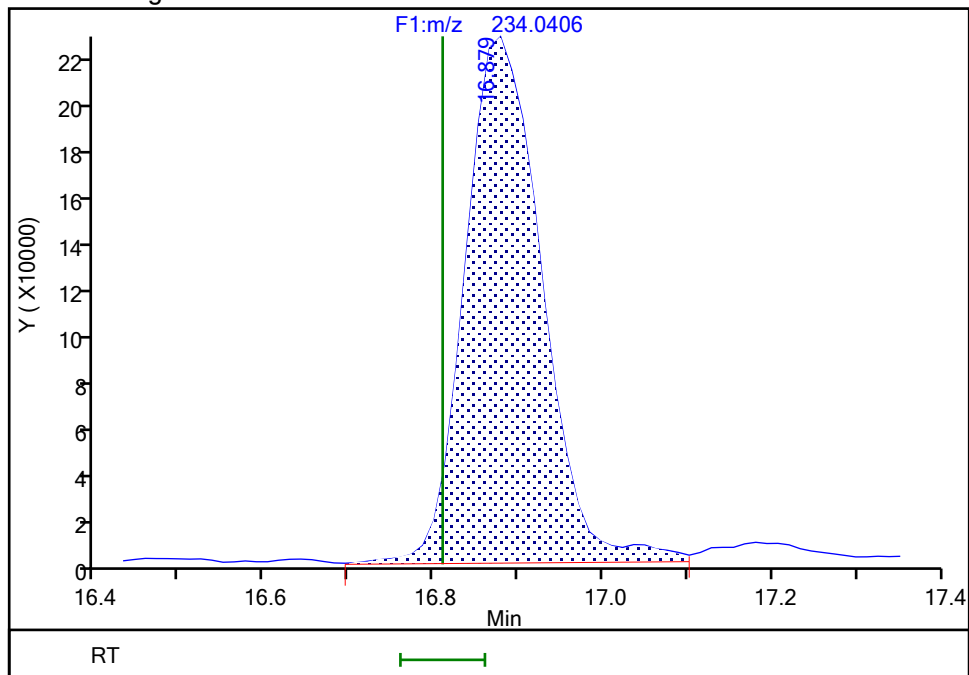
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.88
Area: 1398045
Amount: 49.023175
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:16:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Knoxville

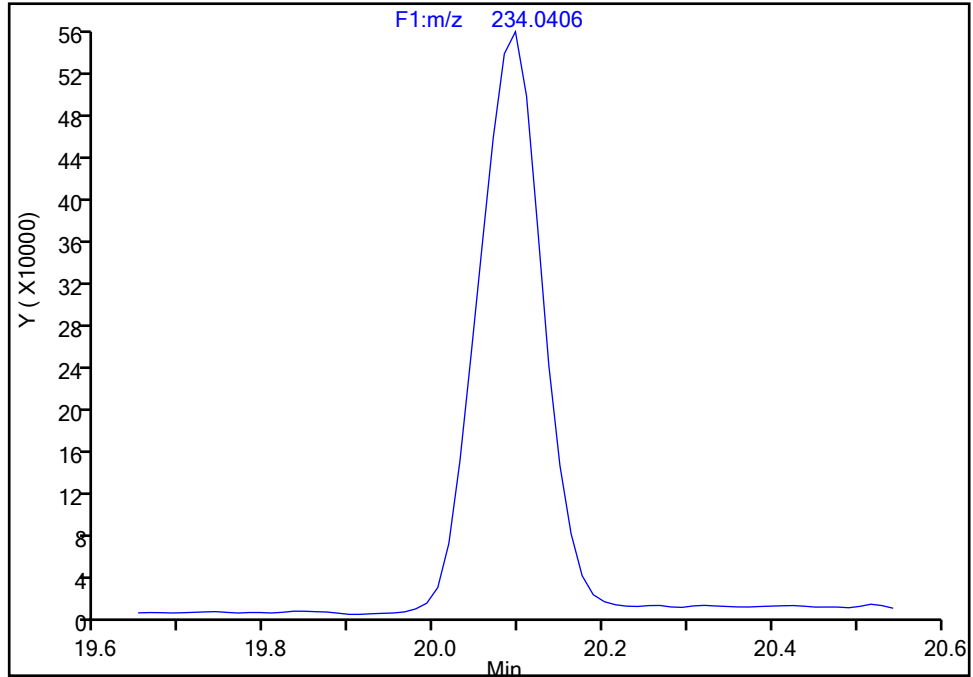
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

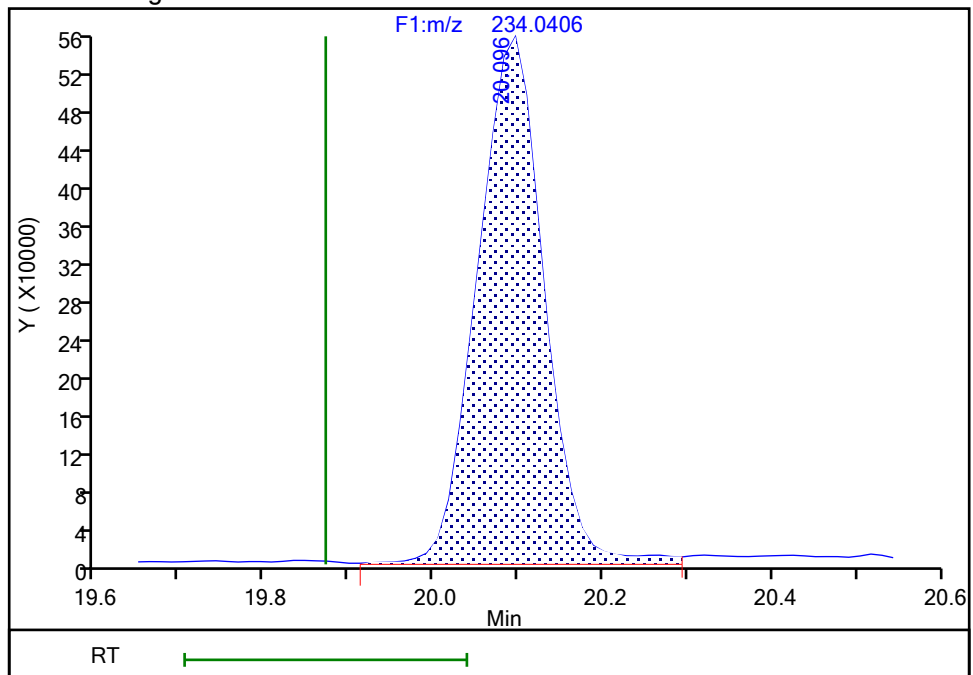
Not Detected
Expected RT: 19.87

Processing Integration Results



RT: 20.10
Area: 2994554
Amount: 72.165362
Amount Units: pg/ul

Manual Integration Results



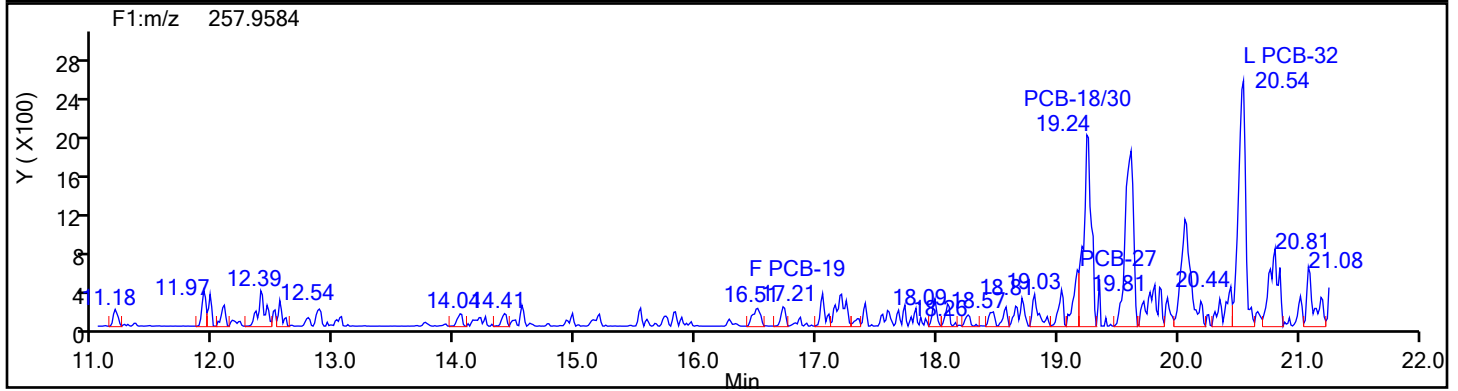
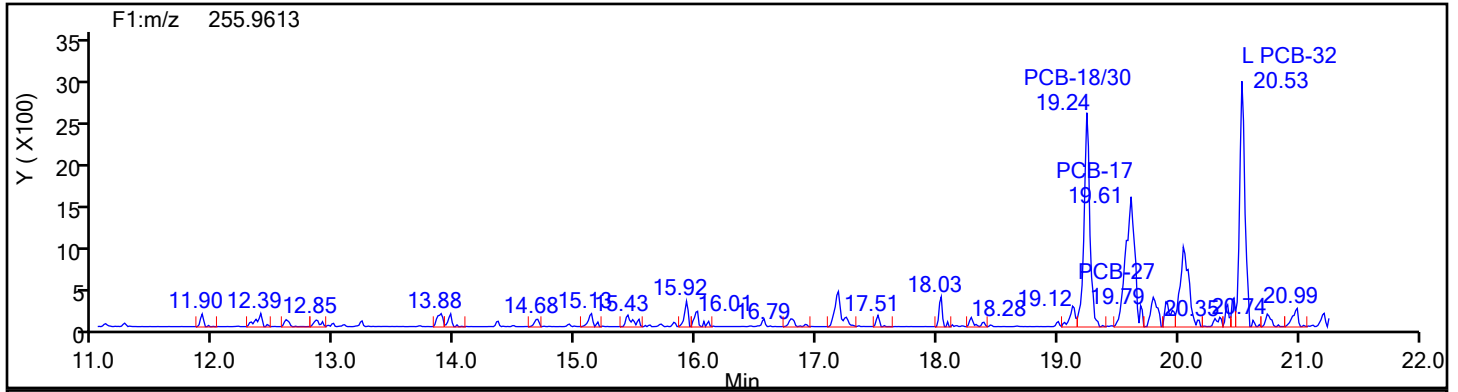
Reviewer: V4XA, 16-Jul-2024 21:16:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

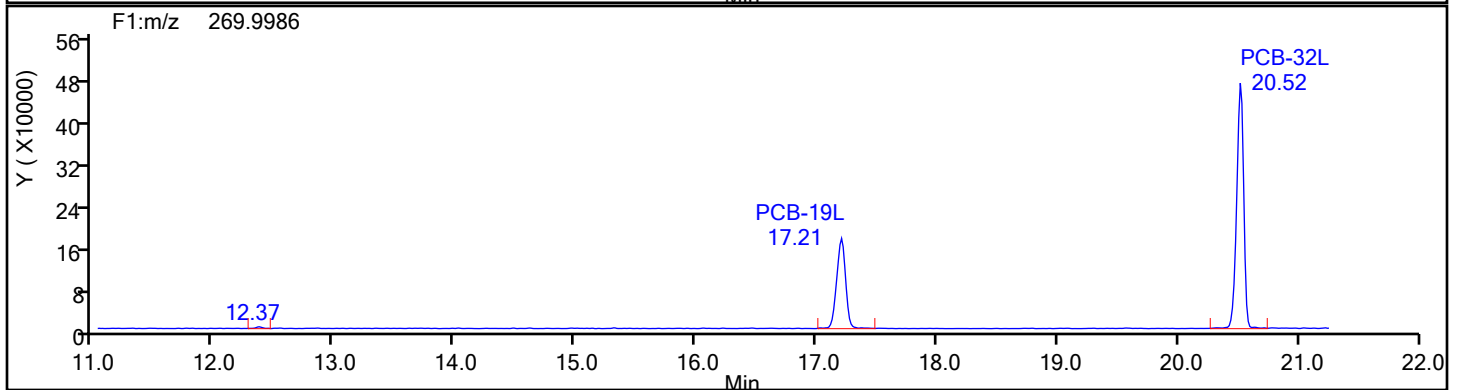
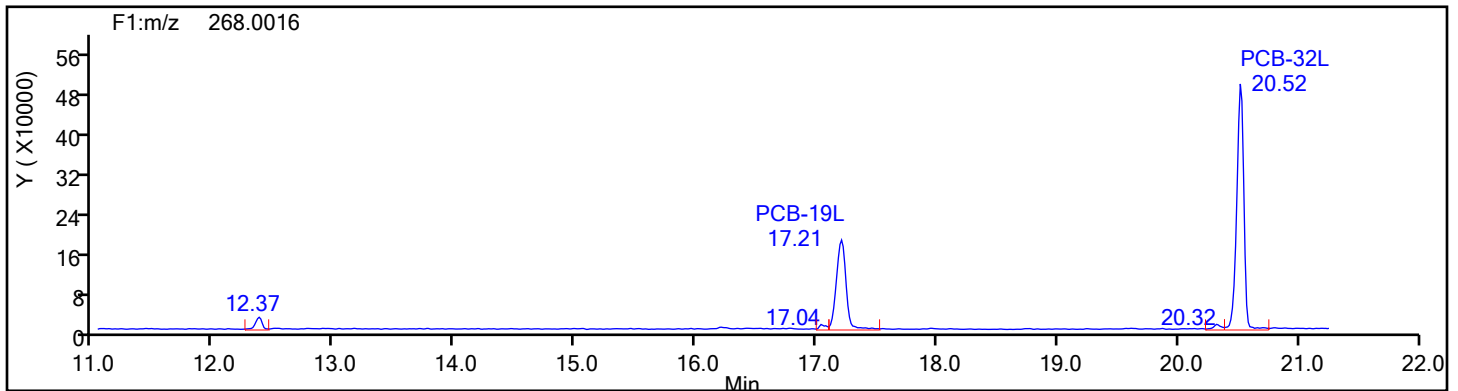
Audit Reason: Peak assignment corrected

Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

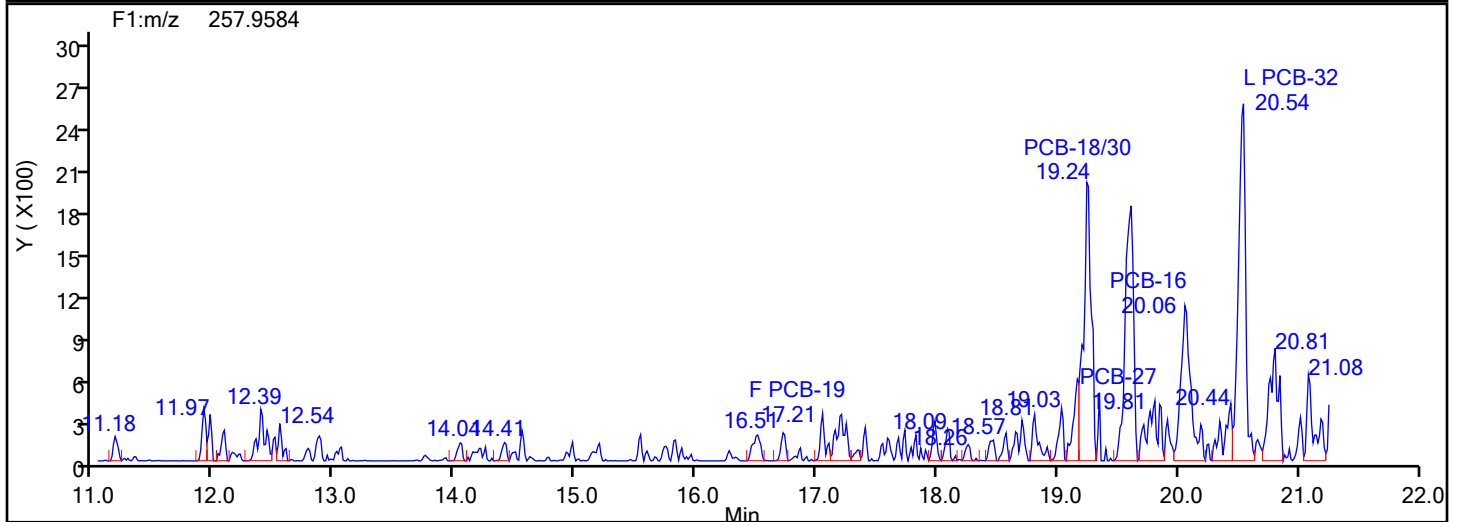
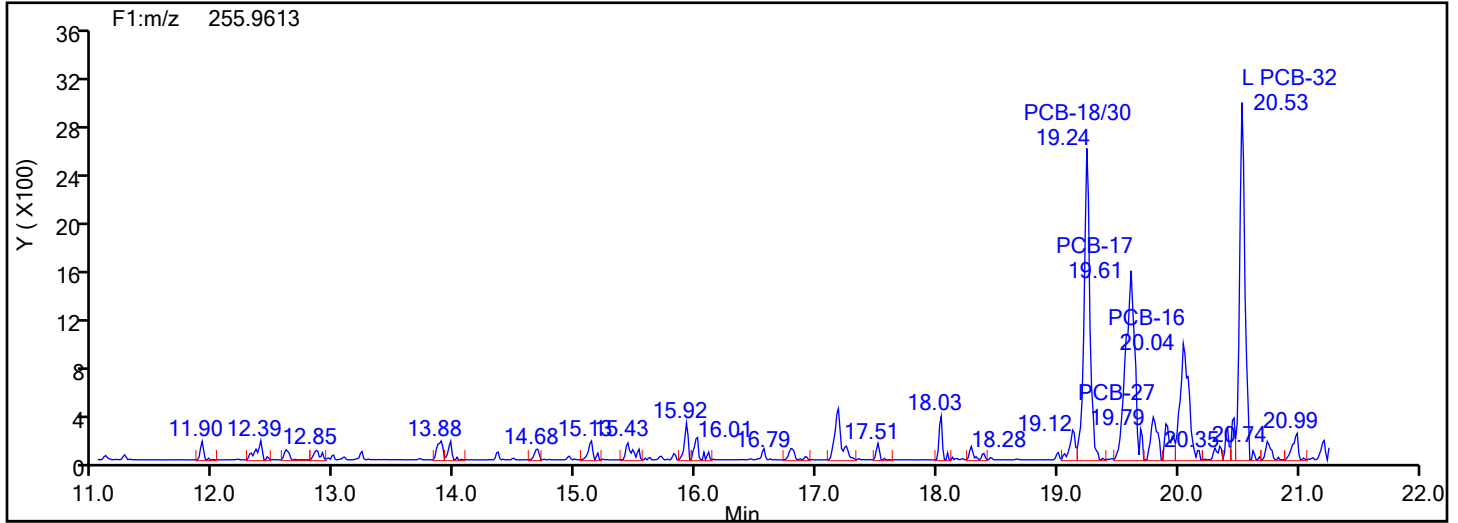


TriPCB F1 Standards

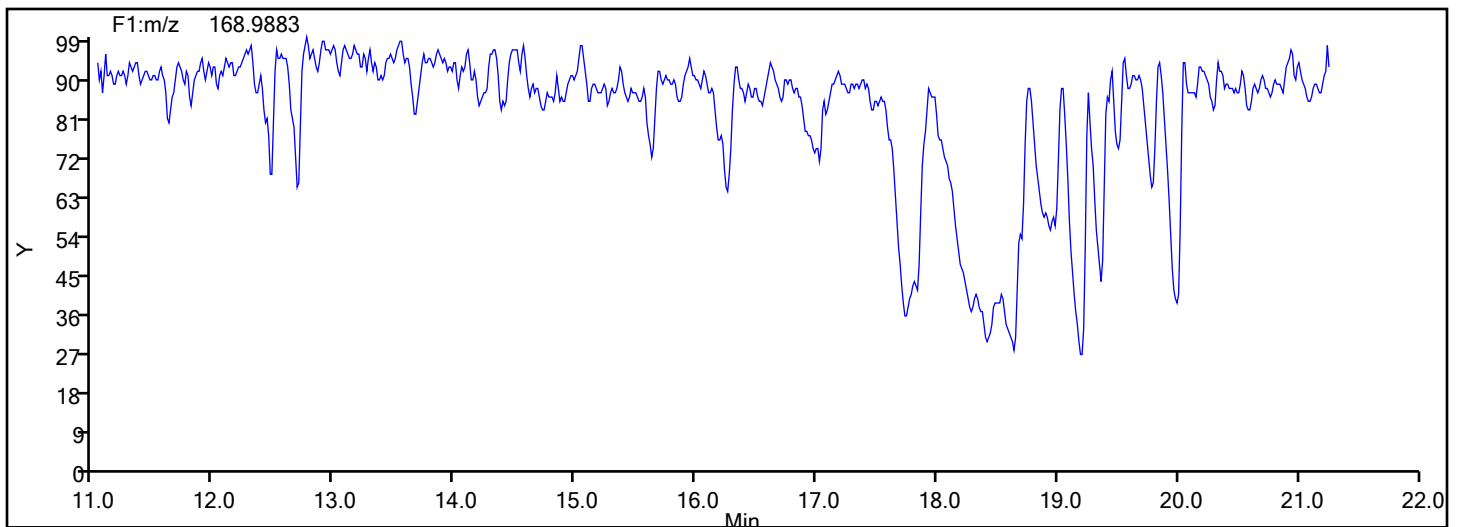


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

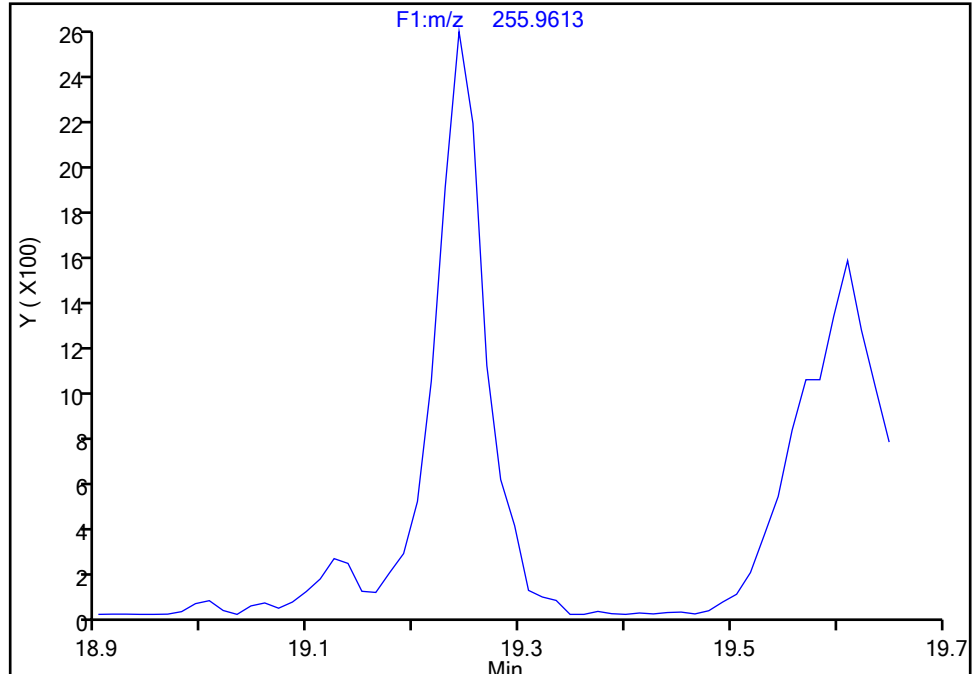
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

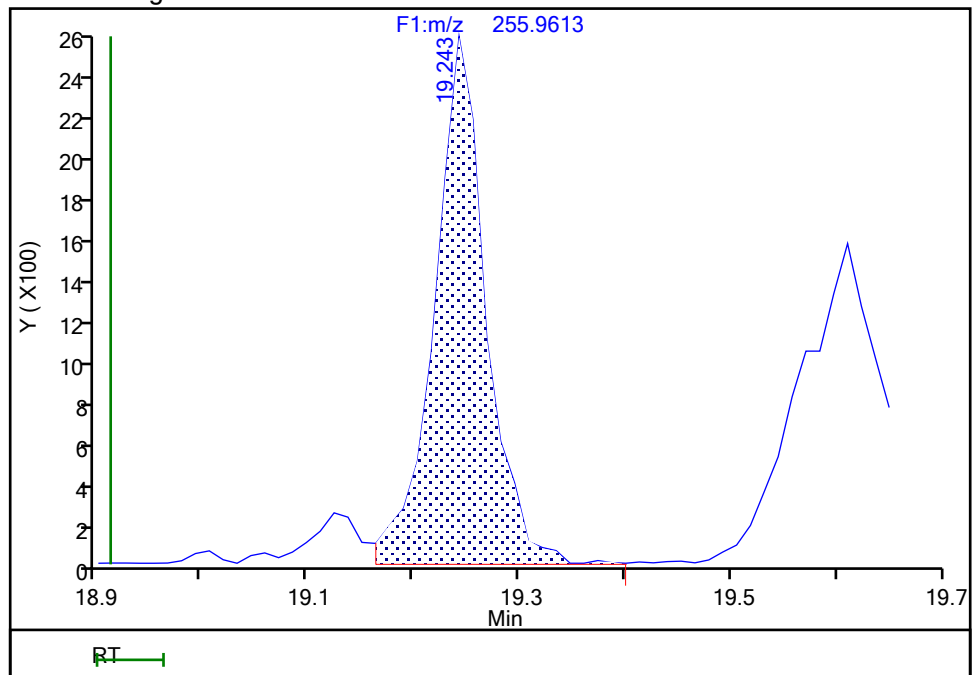
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.24
Area: 8594
Amount: 0.516767
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:19:50 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

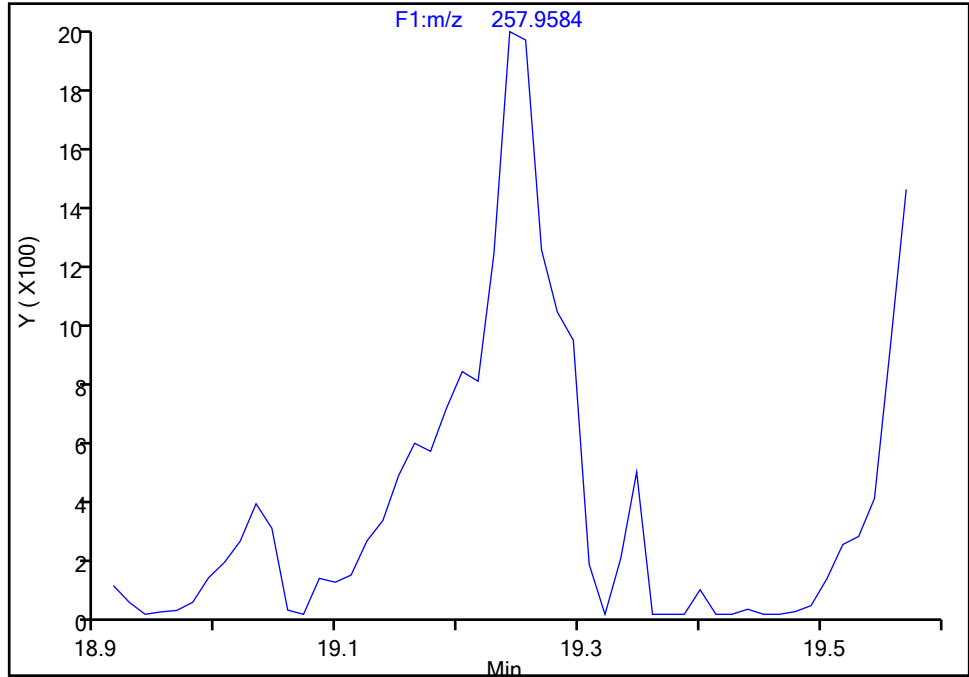
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

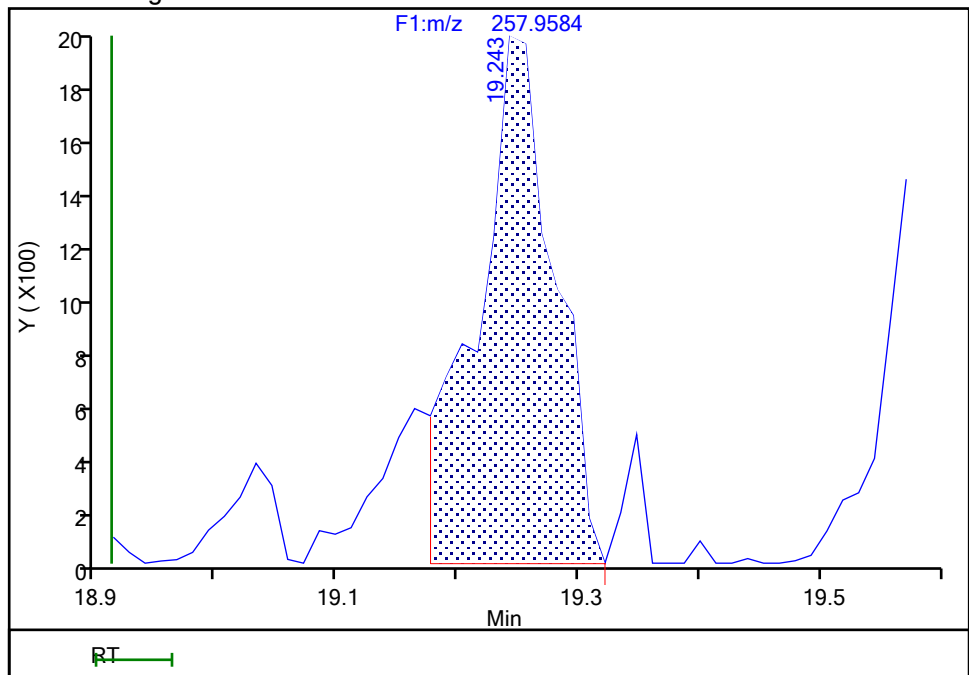
Not Detected
Expected RT: 18.91

Processing Integration Results



Manual Integration Results

RT: 19.24
Area: 8600
Amount: 0.516767
Amount Units: pg/ul



Reviewer: V4XA, 16-Jul-2024 21:20:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1202 of 3050

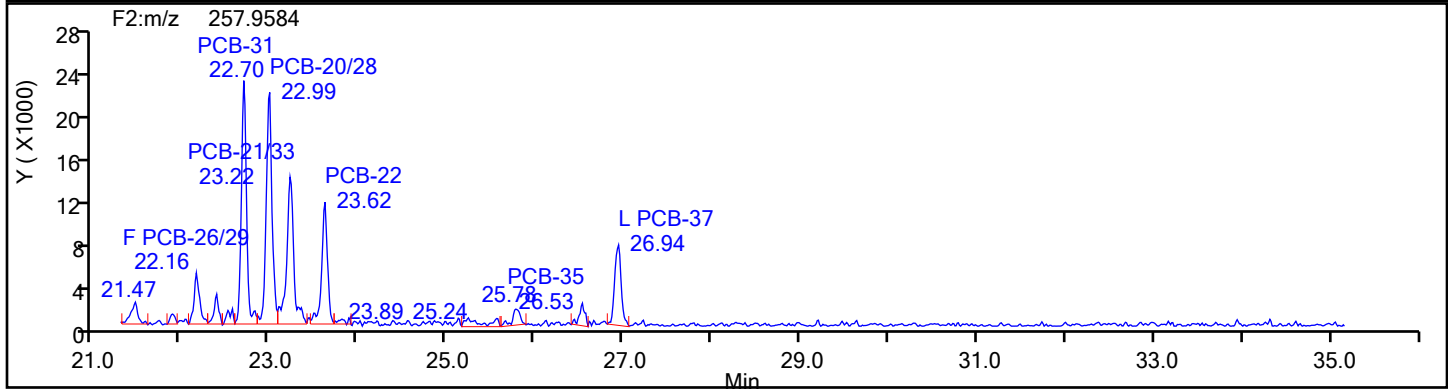
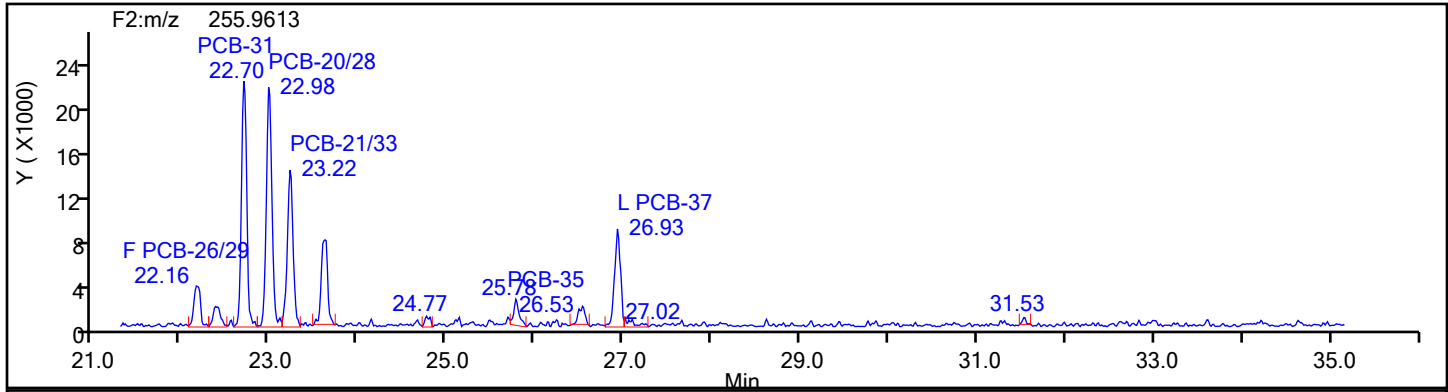
BASFWC-McIntosh-009203

9/6/2024

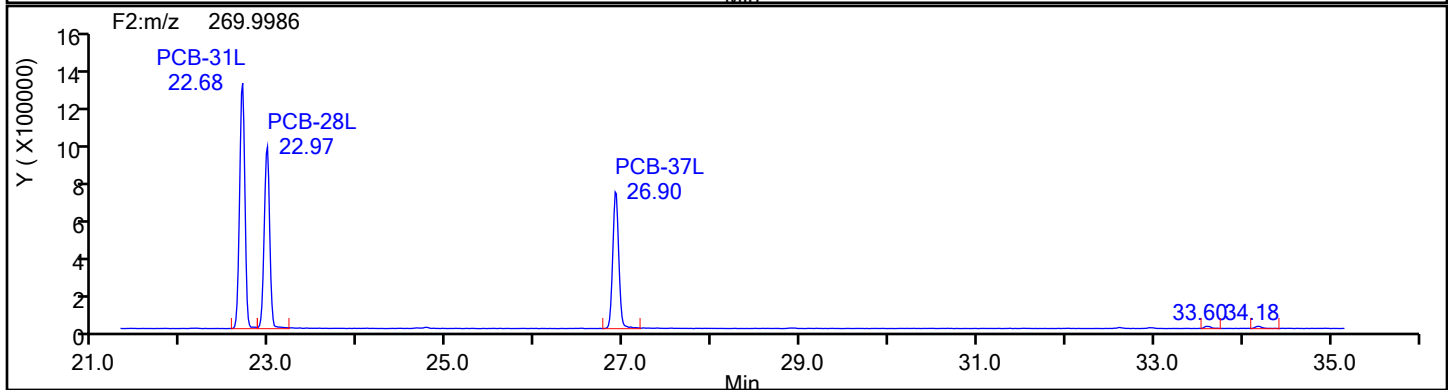
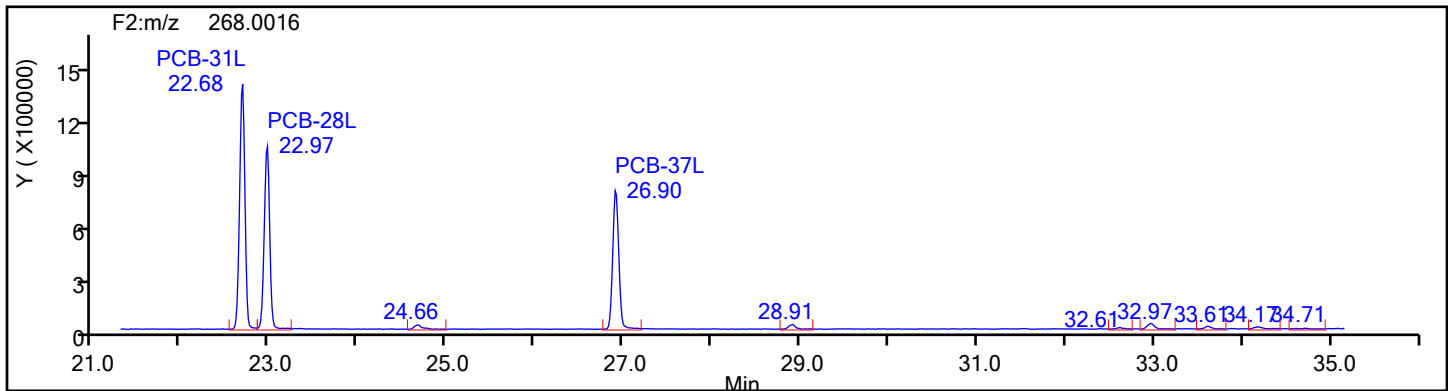
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

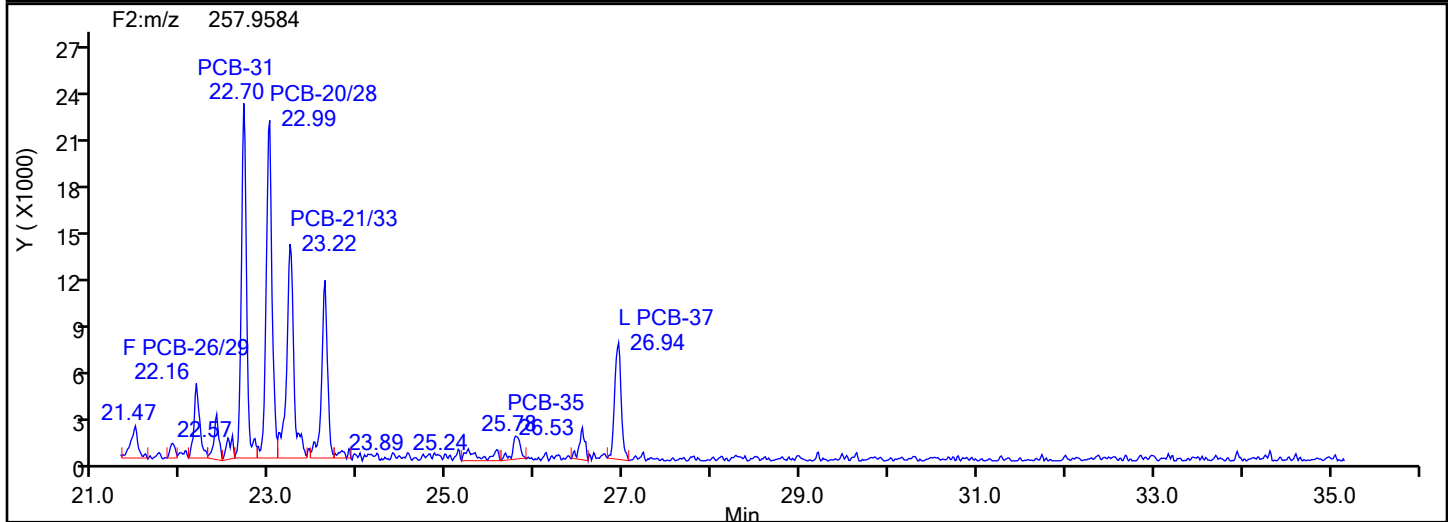
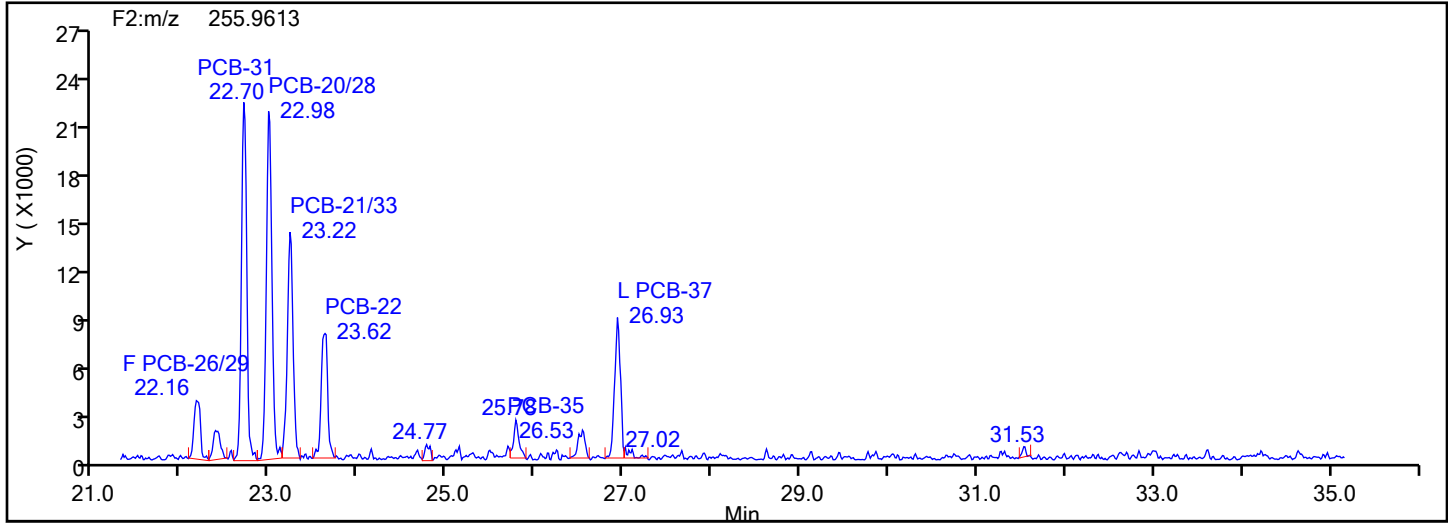


TriPCB F2 Standards

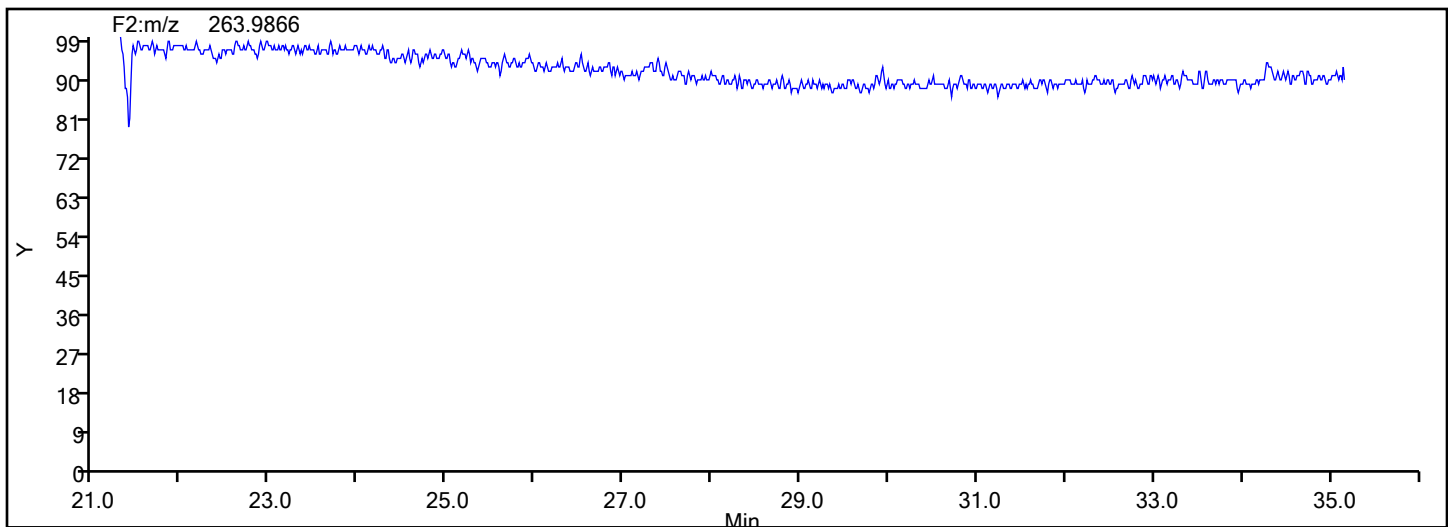


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

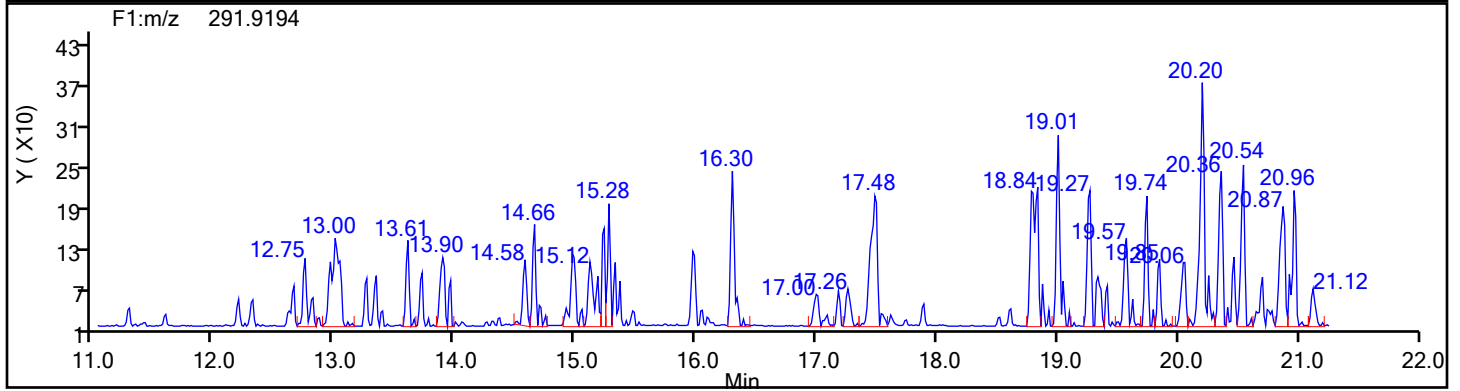
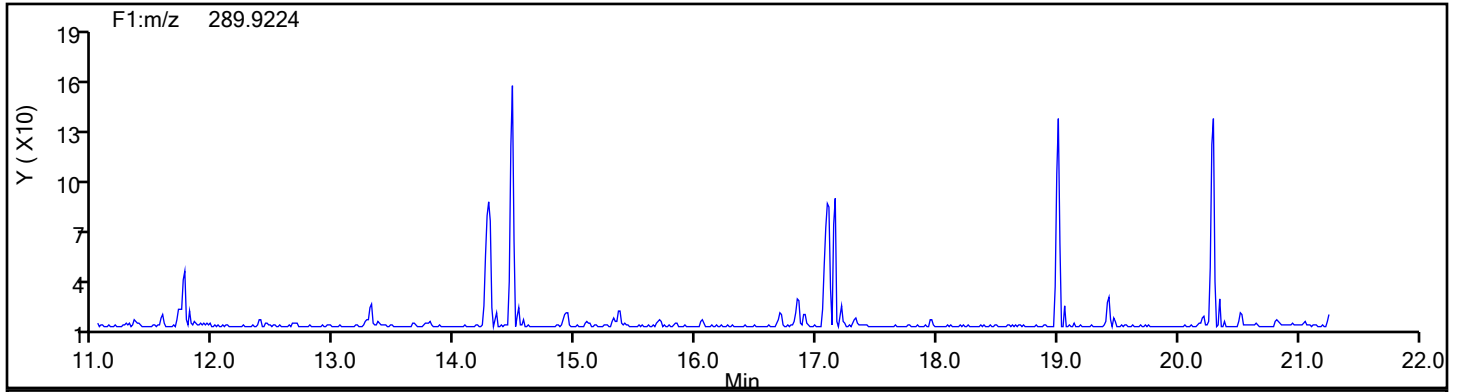


TriPCB F2 Lock Mass

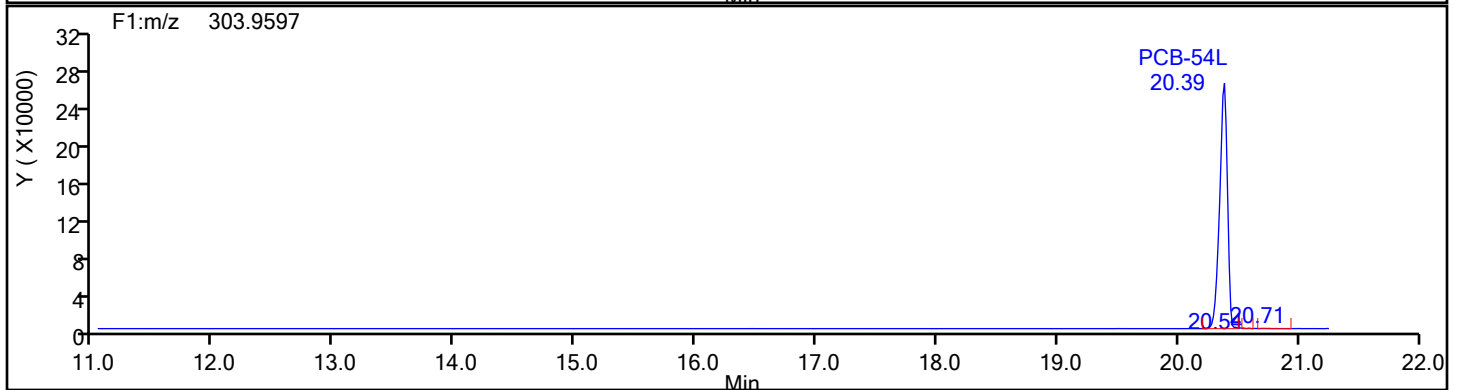
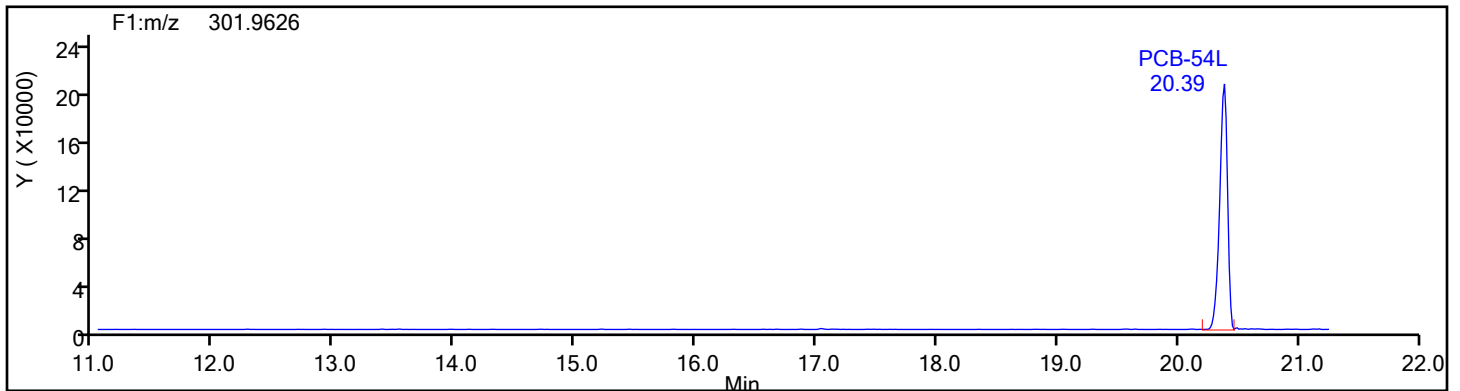


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

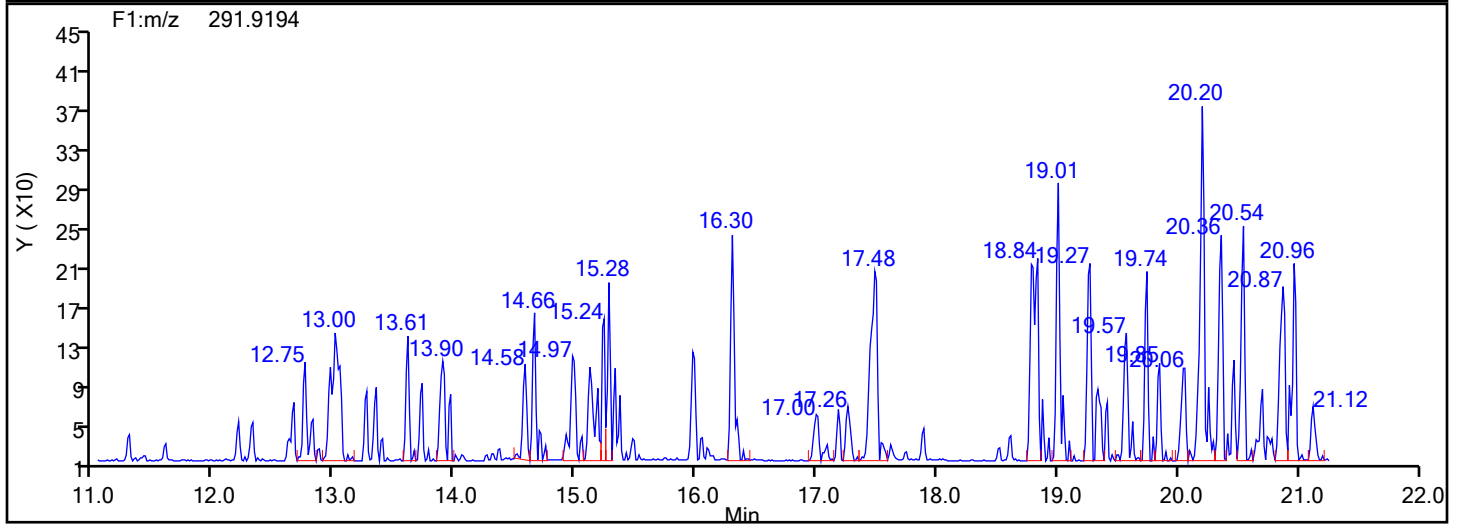
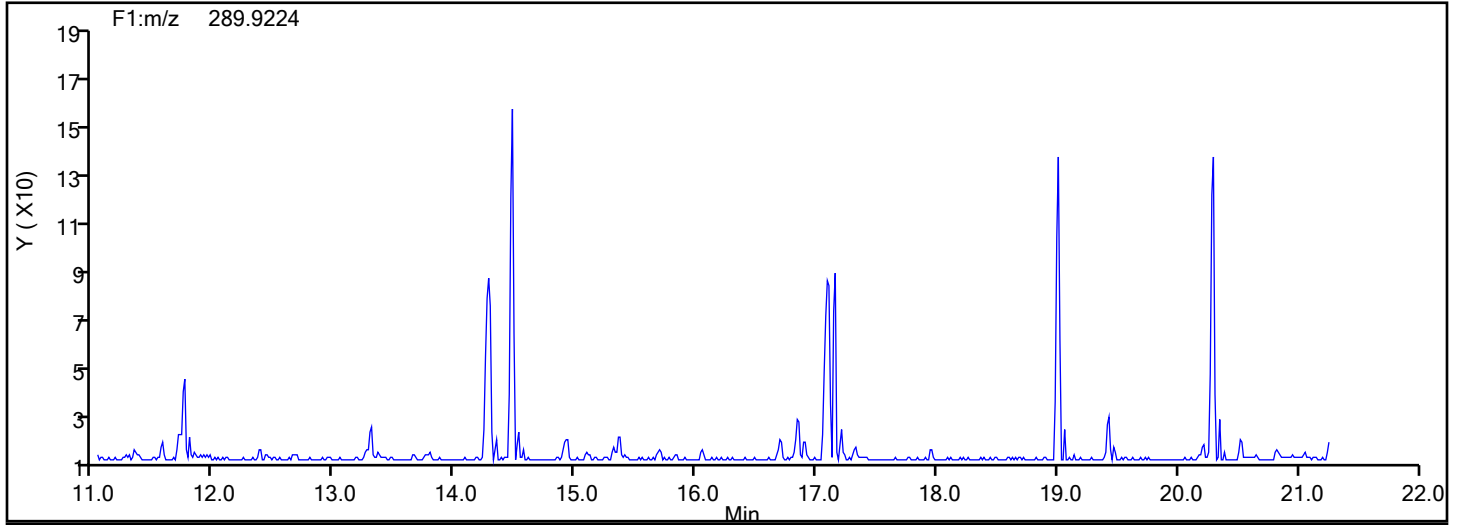


TePCB F1 Standards

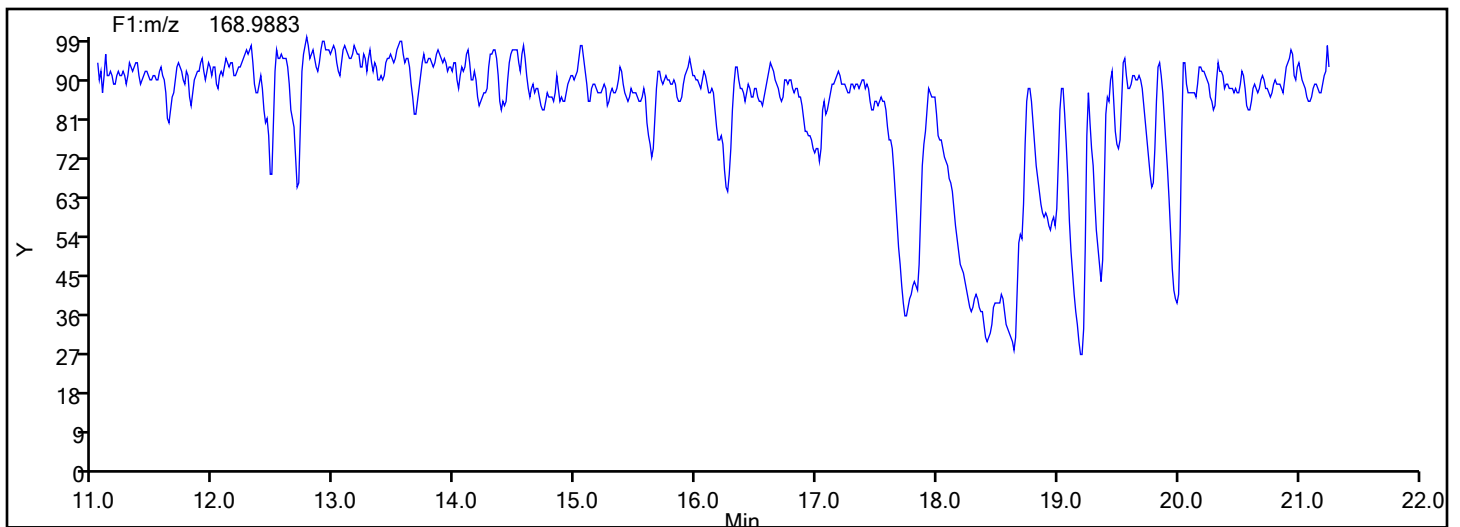


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

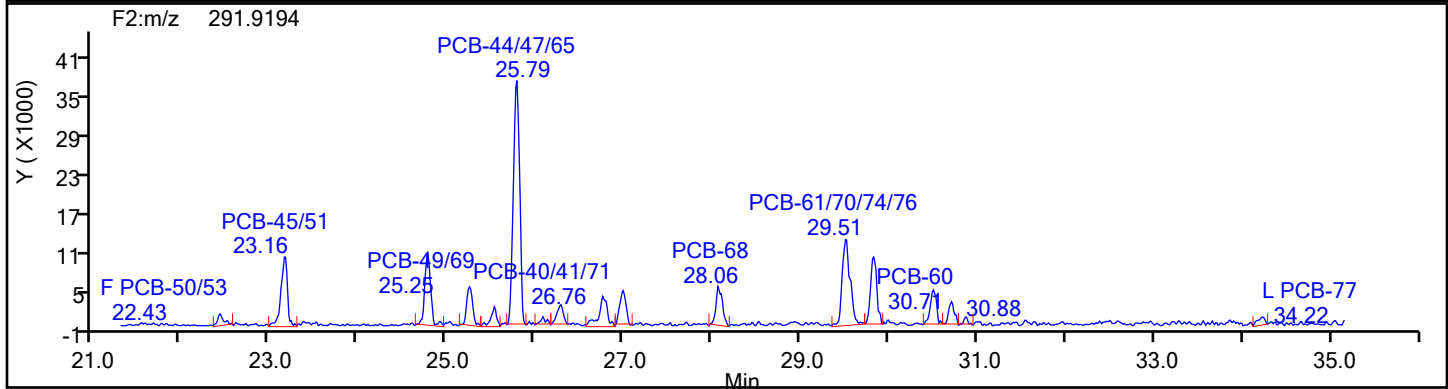
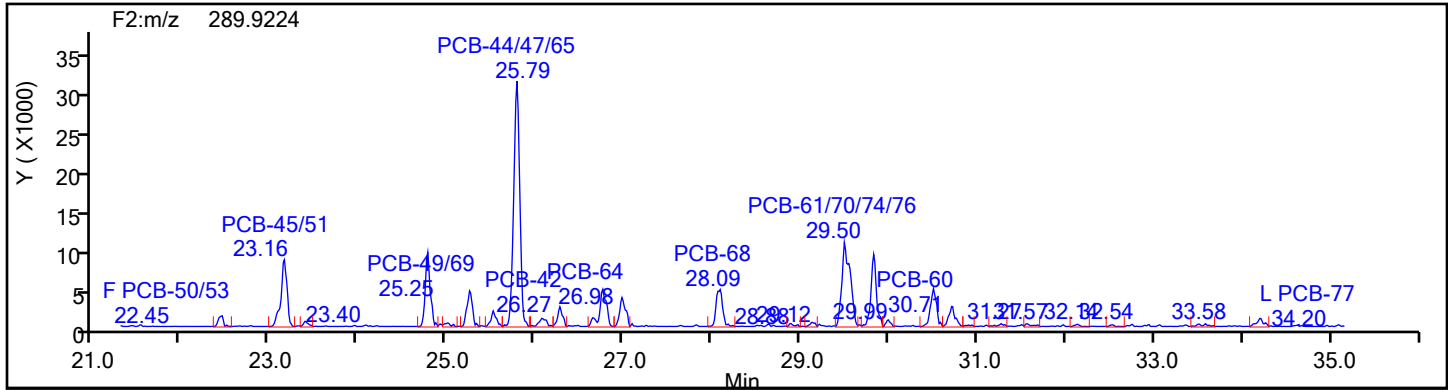


TePCB F1 Lock Mass

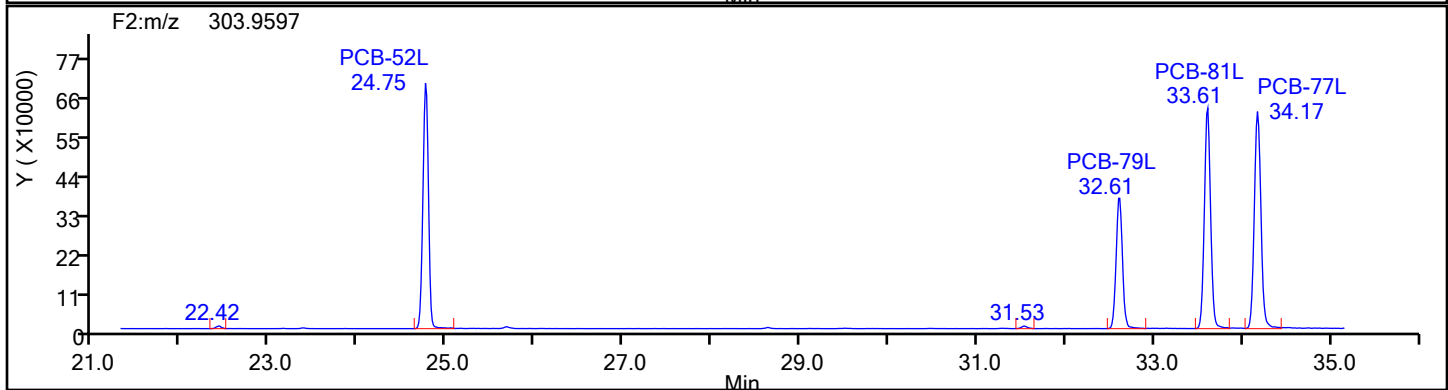
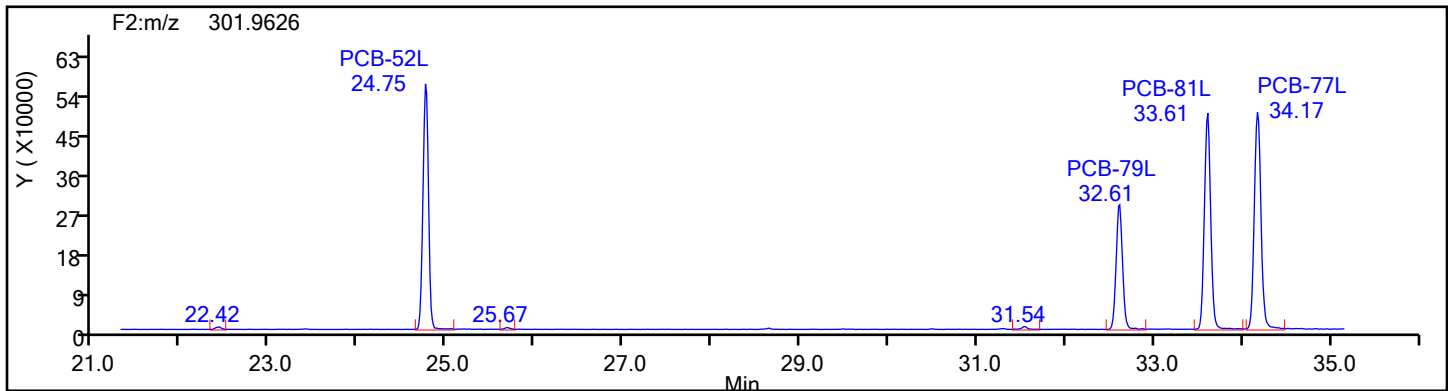


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

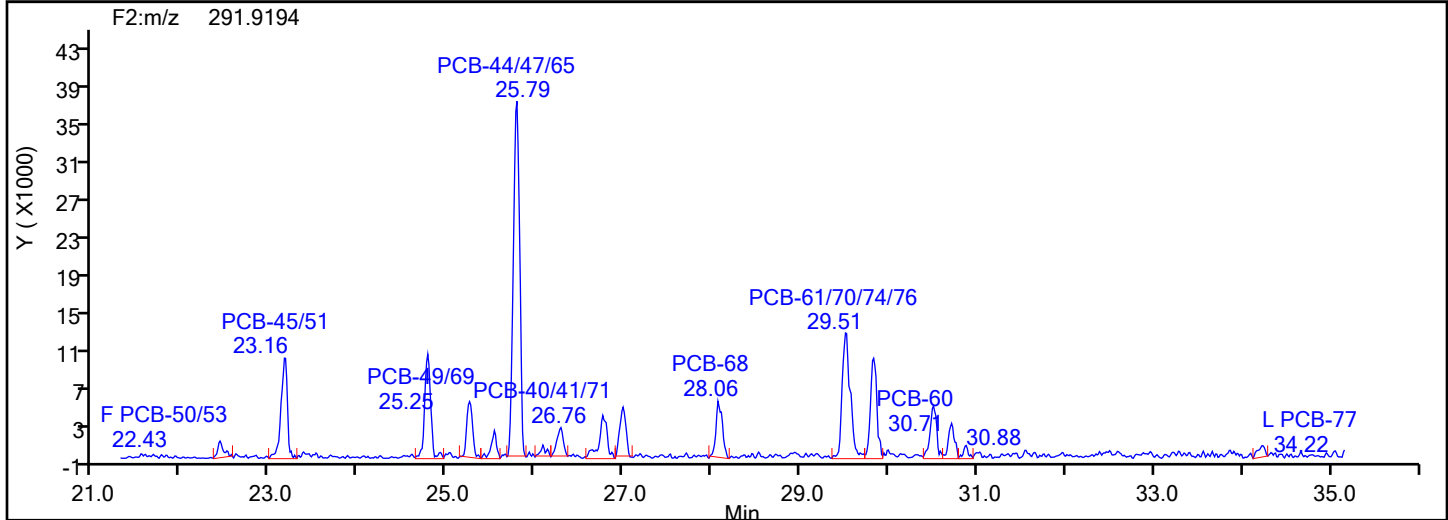
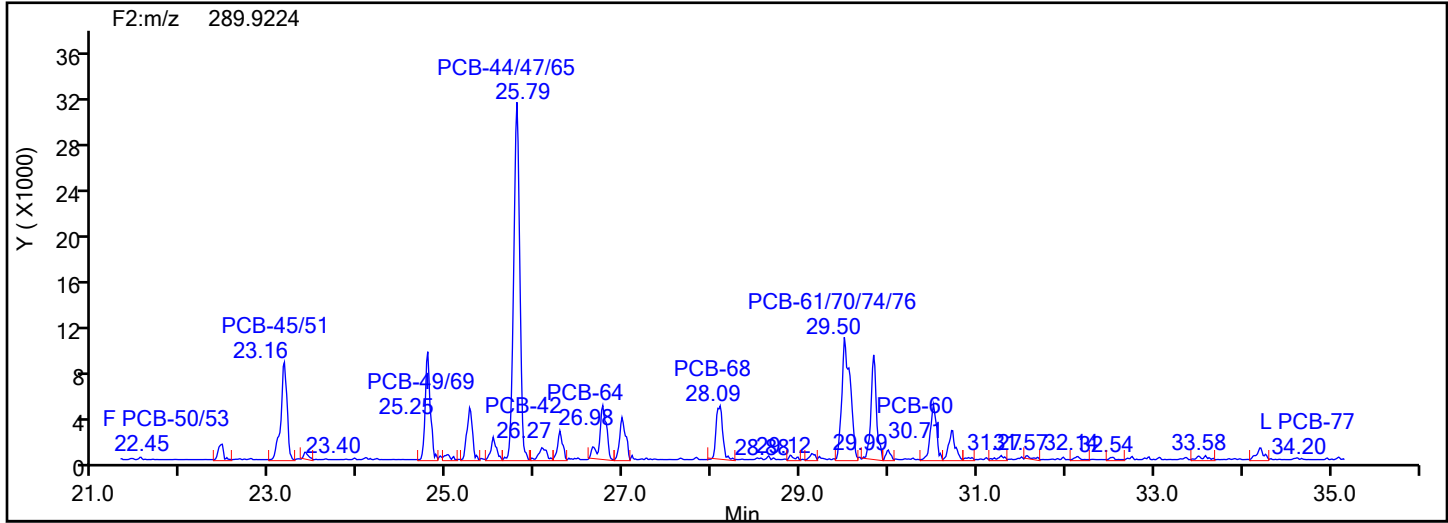


TePCB F2 Standards

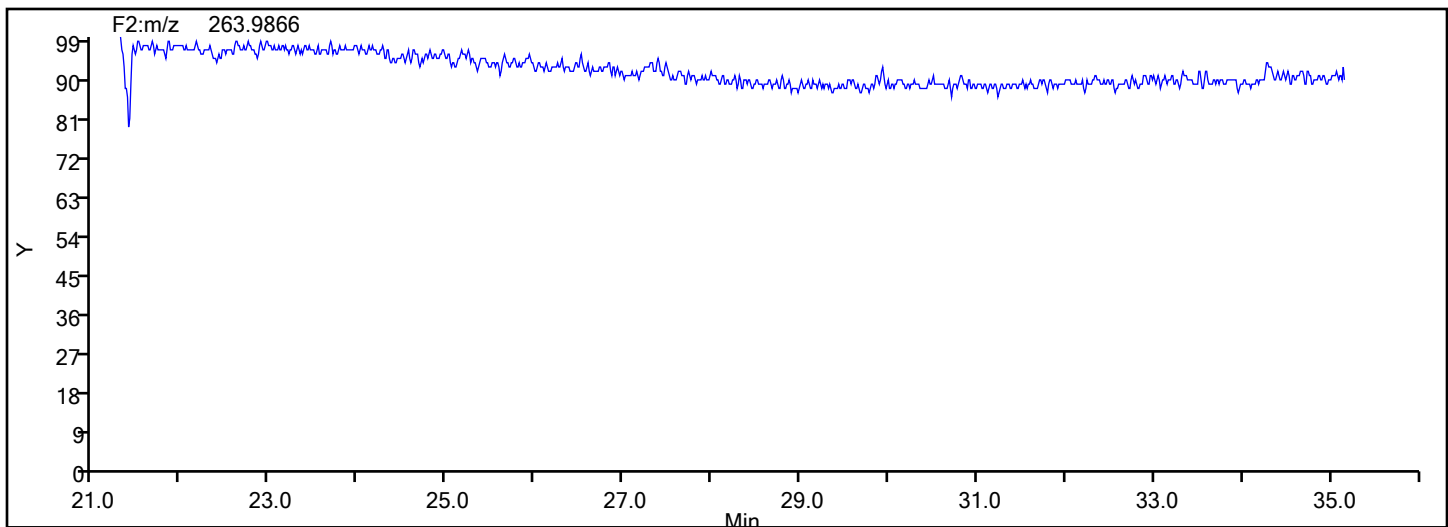


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

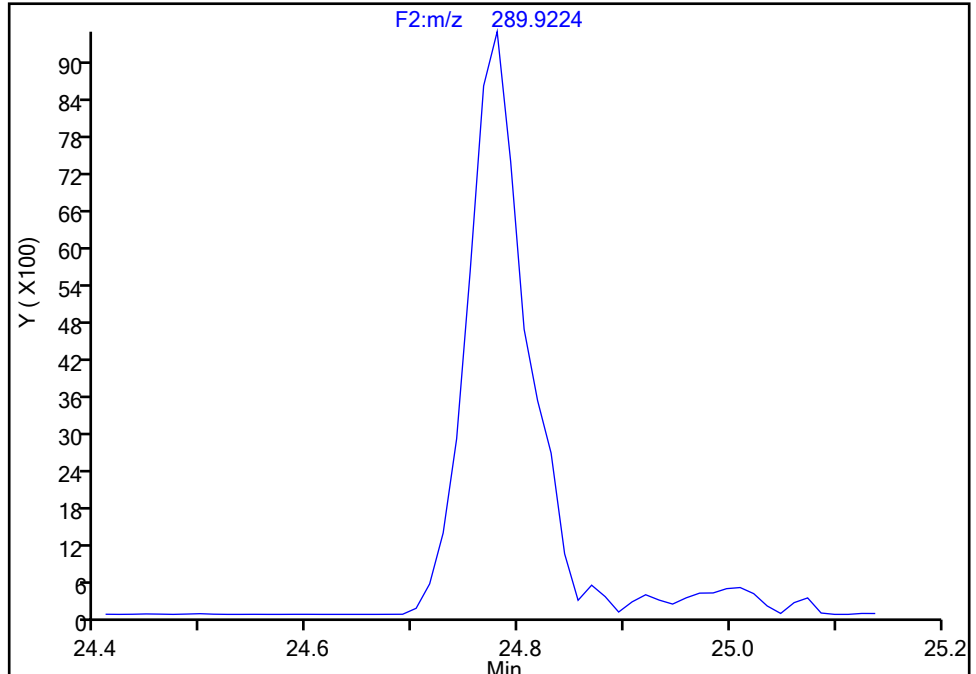
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

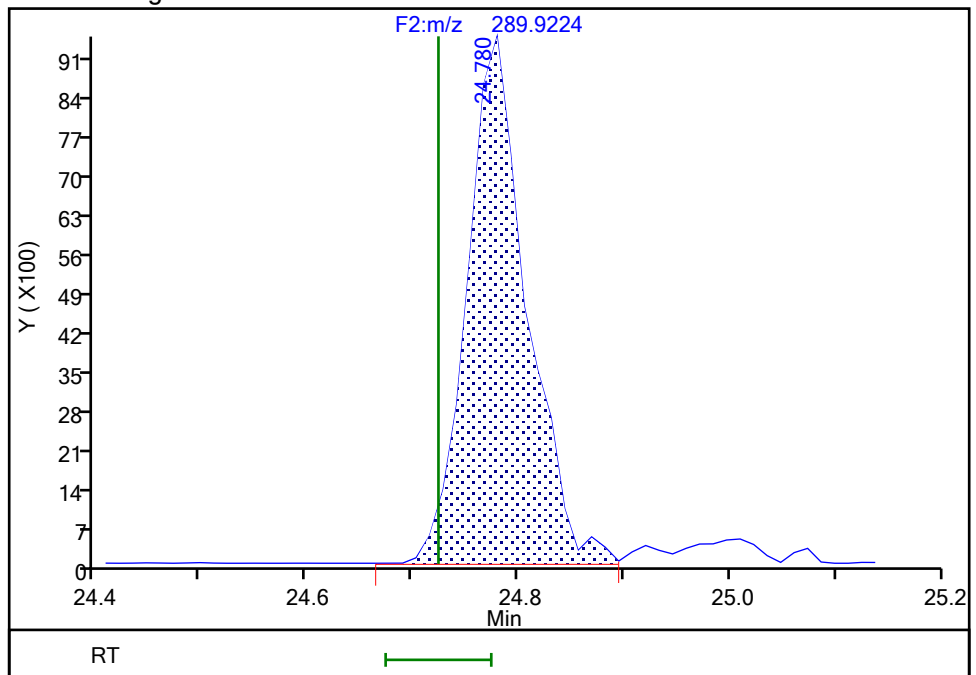
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.78
Area: 36824
Amount: 1.667134
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:21:11 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

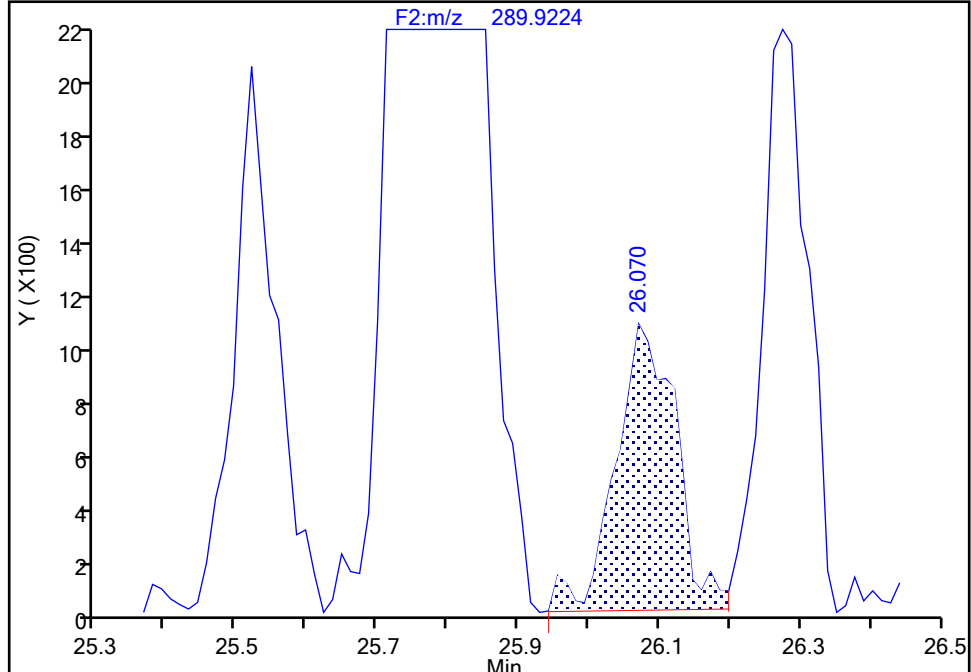
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

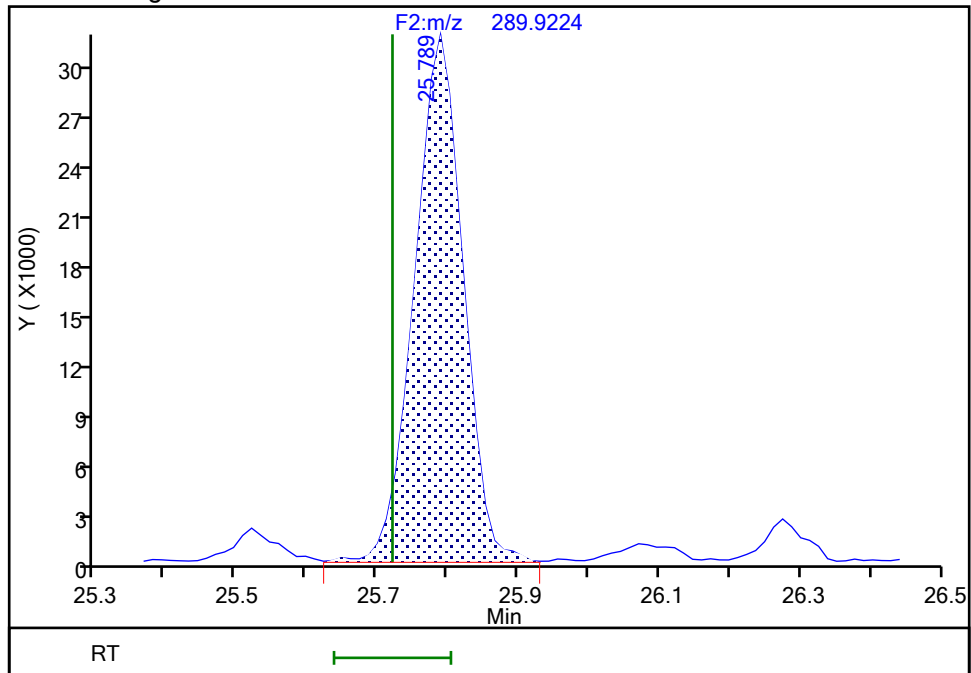
RT: 26.07
Area: 6038
Amount: 0.213368
Amount Units: pg/ul

Processing Integration Results



RT: 25.79
Area: 148089
Amount: 5.975084
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:22:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

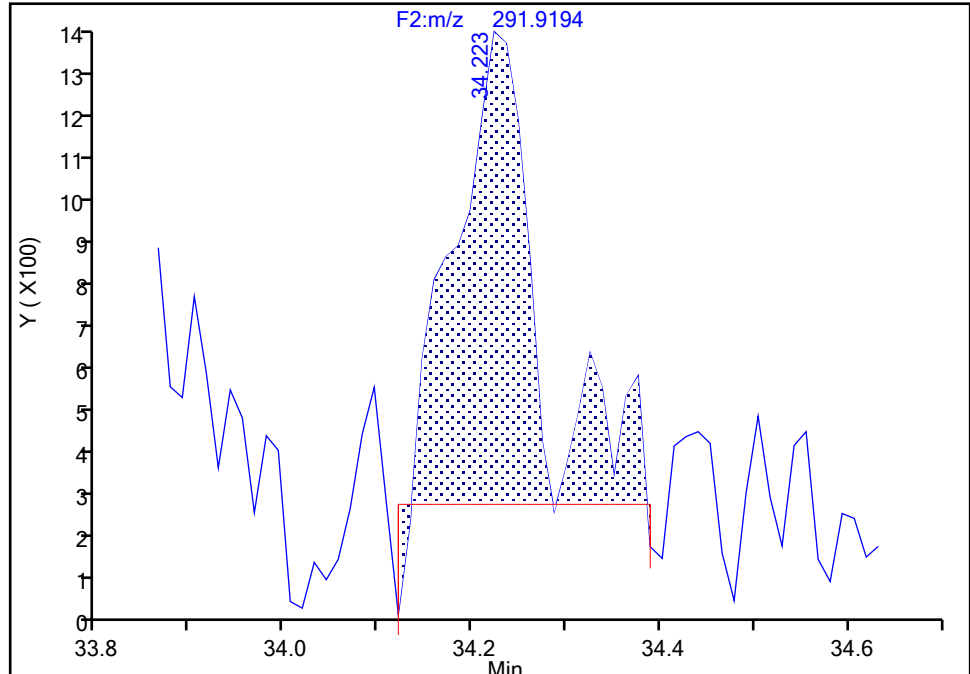
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

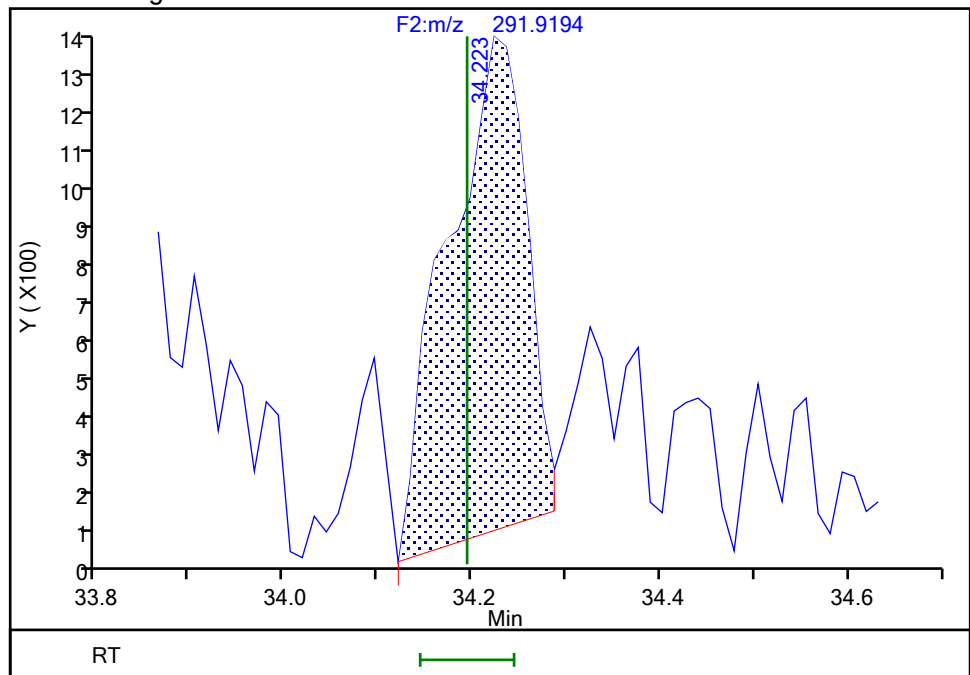
RT: 34.22
Area: 6493
Amount: 0.172234
Amount Units: pg/ul

Processing Integration Results



RT: 34.22
Area: 7152
Amount: 0.203367
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:24:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

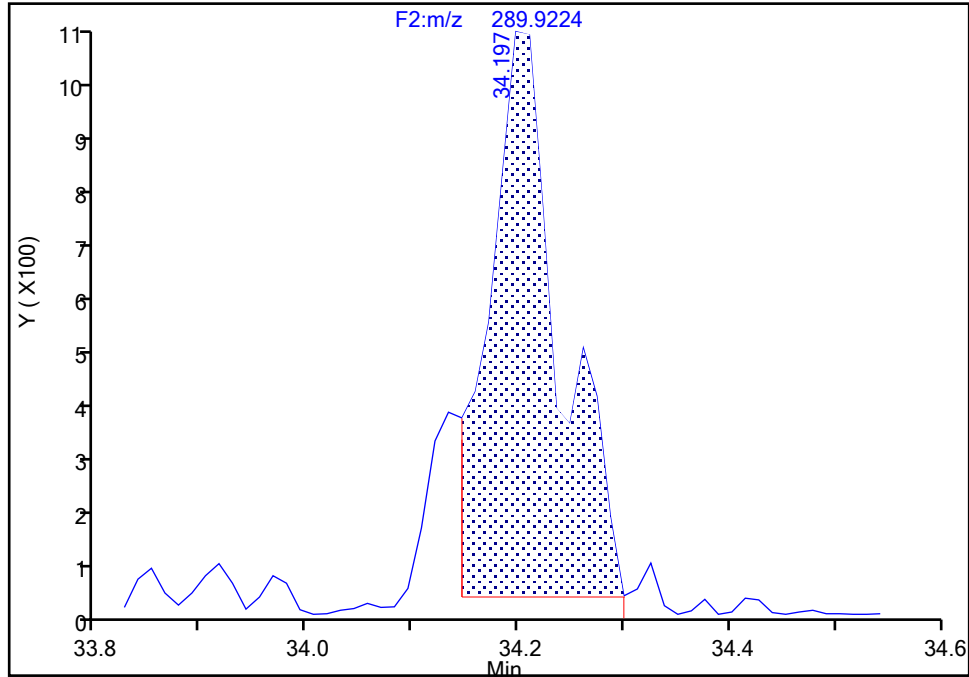
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

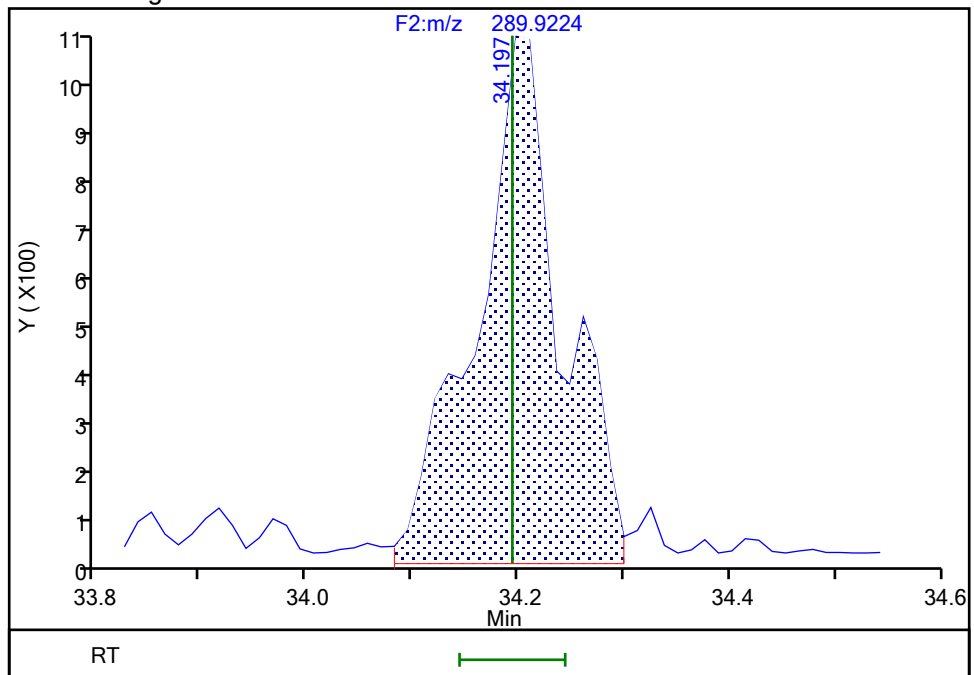
RT: 34.20
Area: 4516
Amount: 0.172234
Amount Units: pg/ul

Processing Integration Results



RT: 34.20
Area: 5847
Amount: 0.203367
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:24:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1212 of 3050

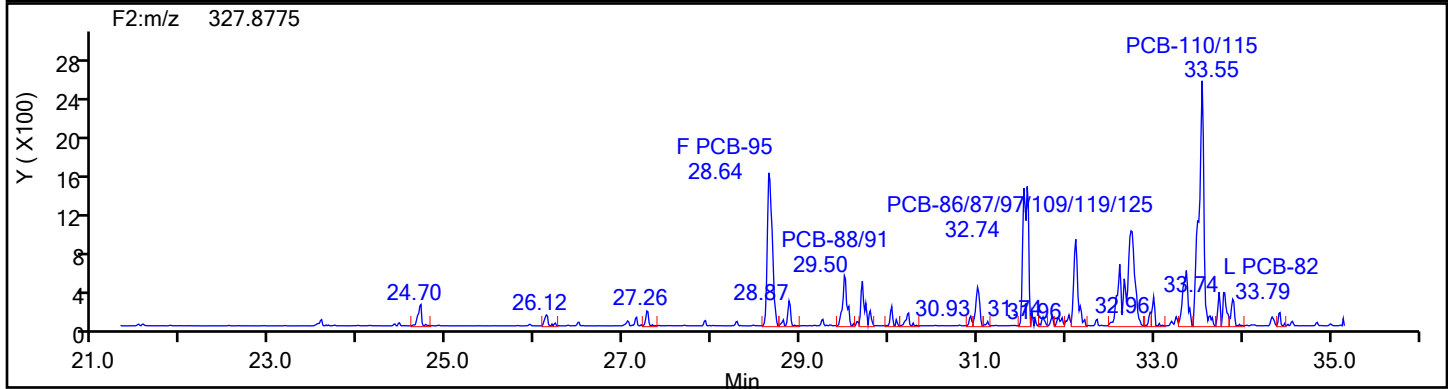
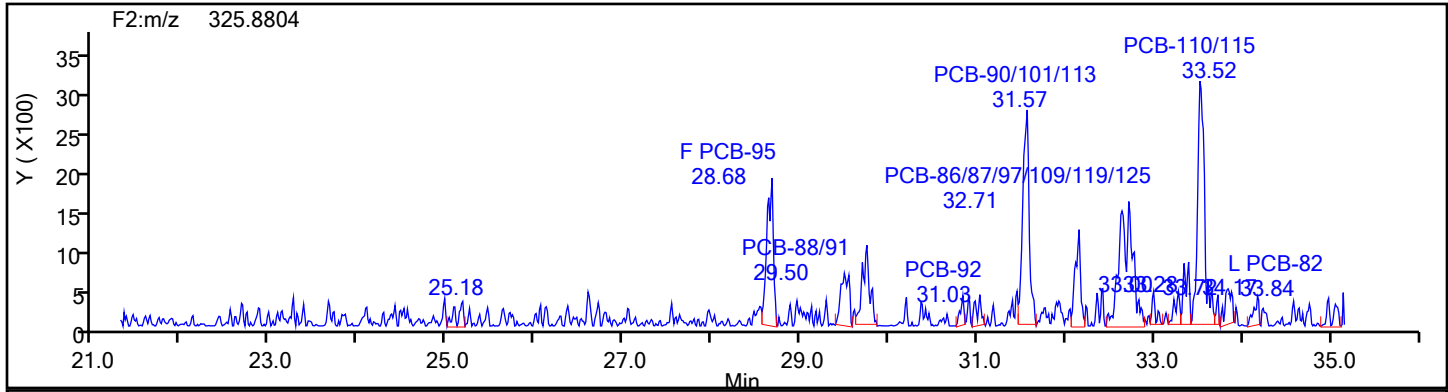
BASFWC-McIntosh-009213

9/6/2024

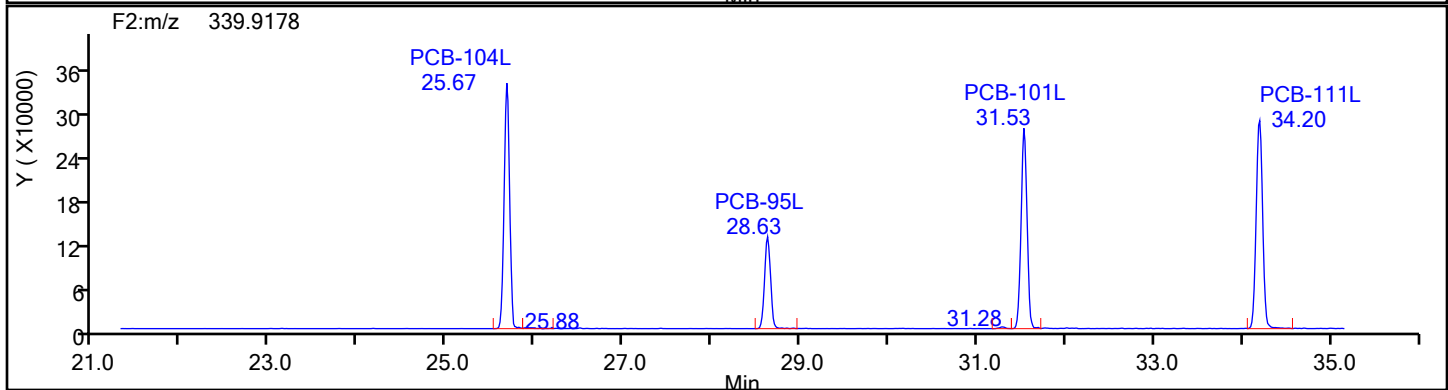
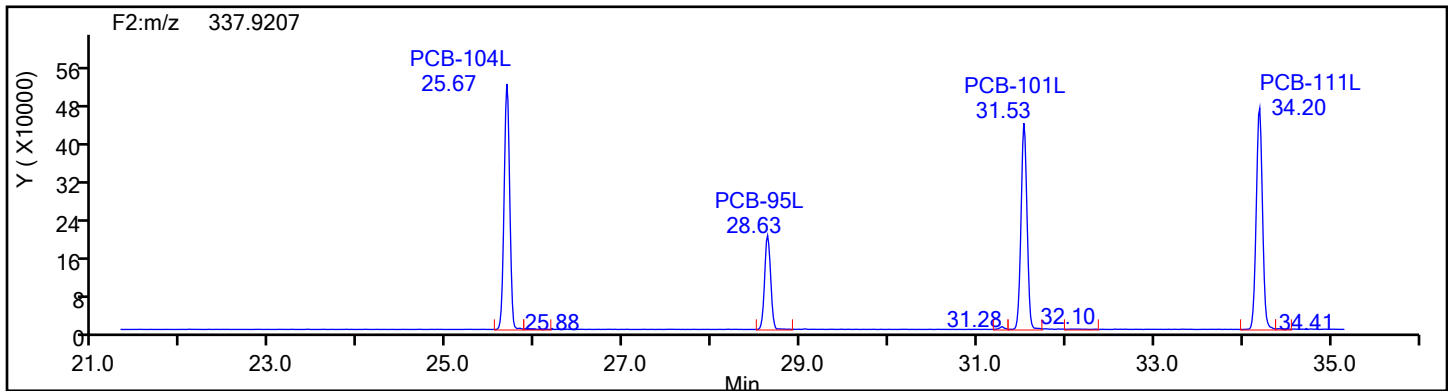
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

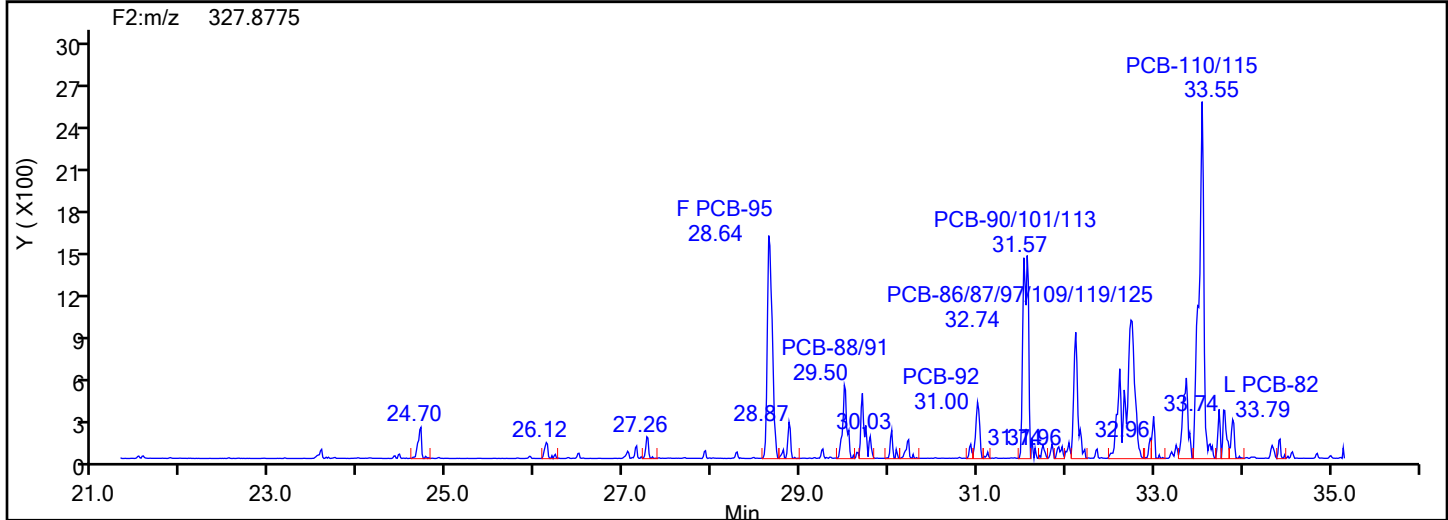
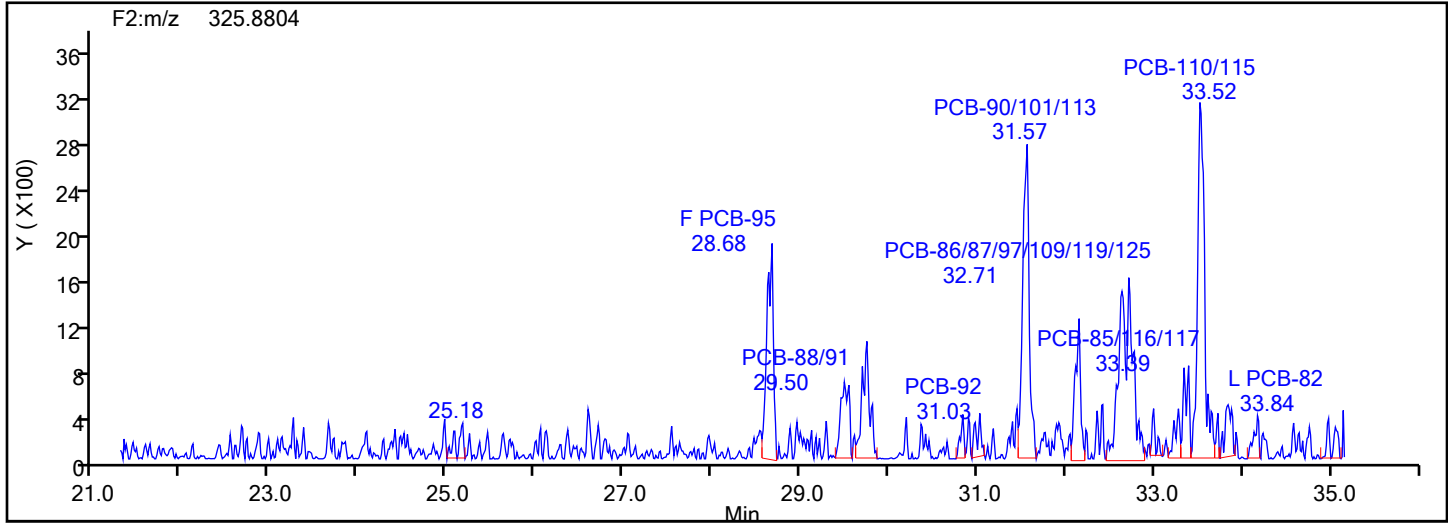


PePCB F2 Standards

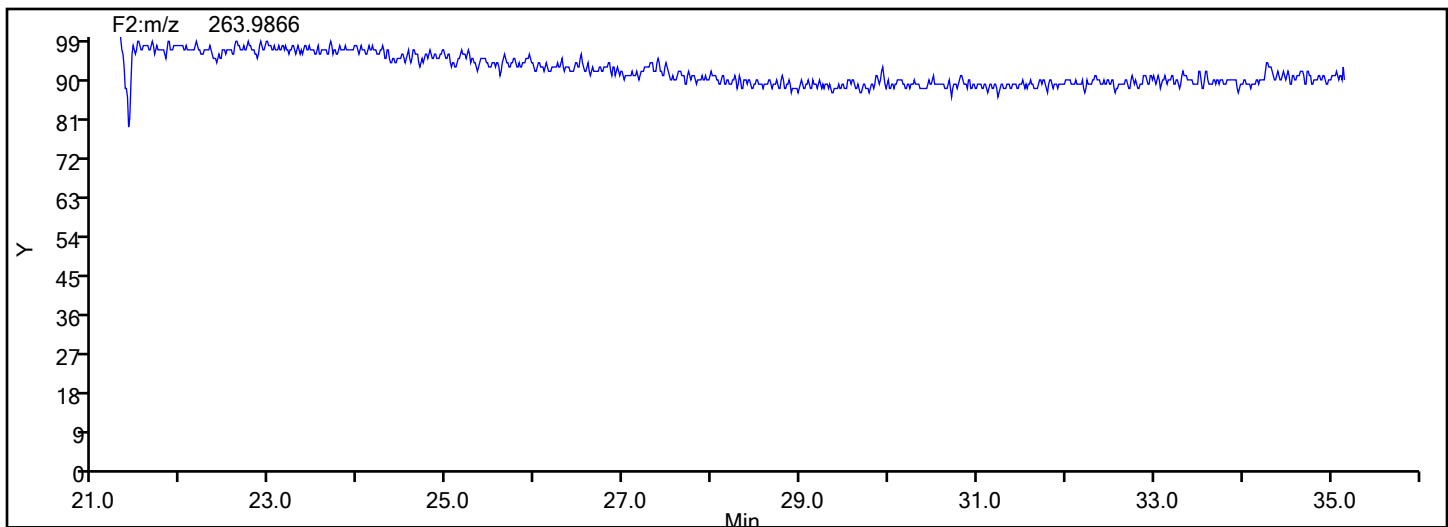


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

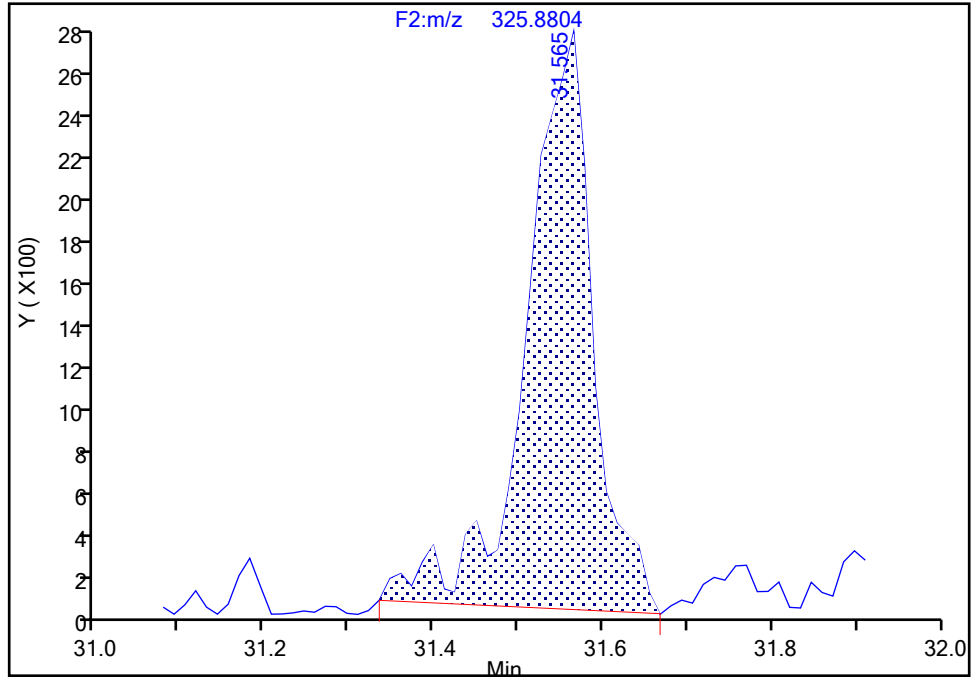
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

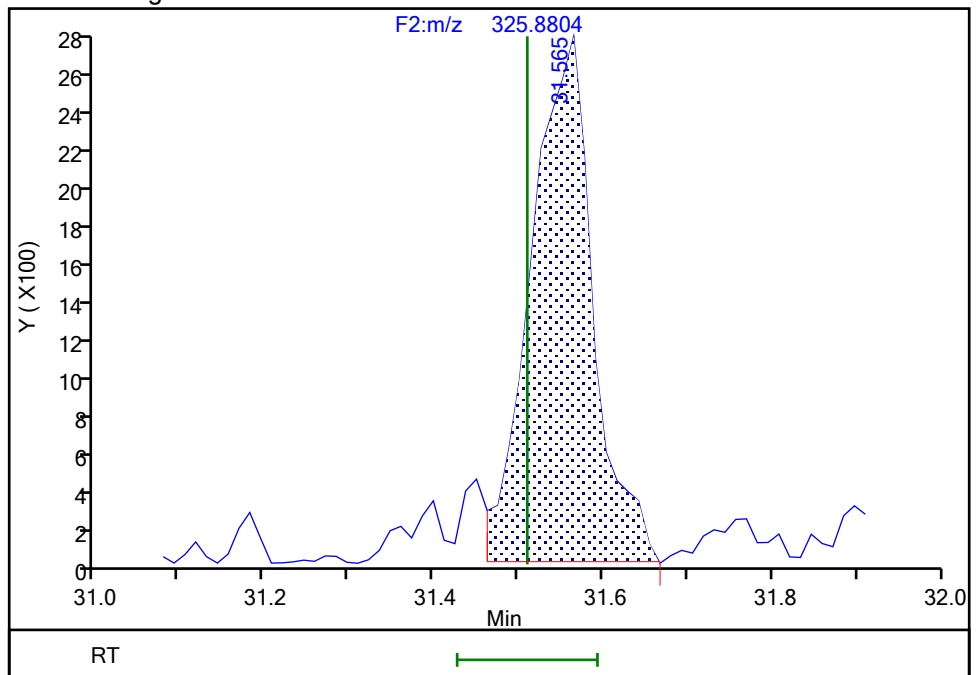
RT: 31.57
Area: 15109
Amount: 0.592860
Amount Units: pg/ul

Processing Integration Results



RT: 31.57
Area: 13949
Amount: 0.560530
Amount Units: pg/ul

Manual Integration Results



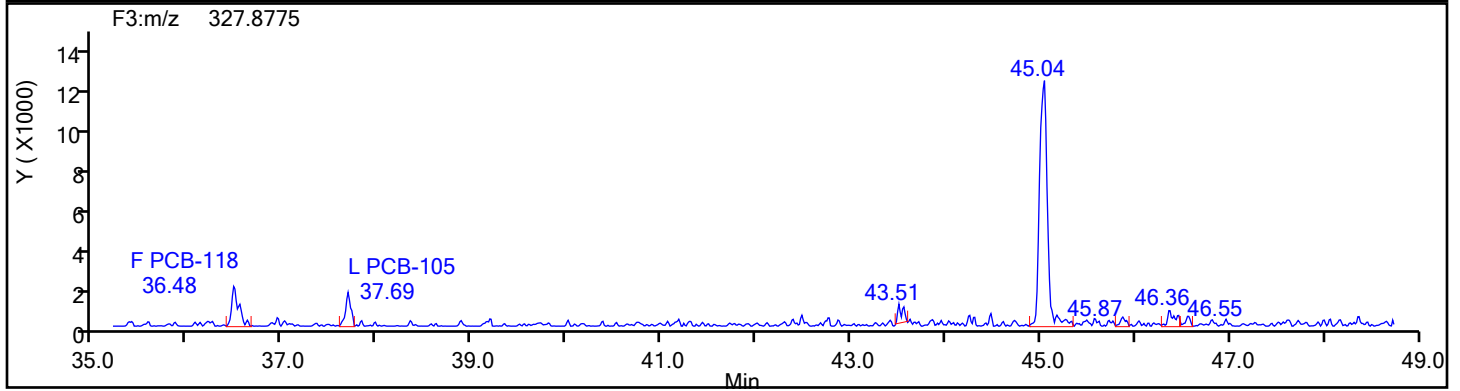
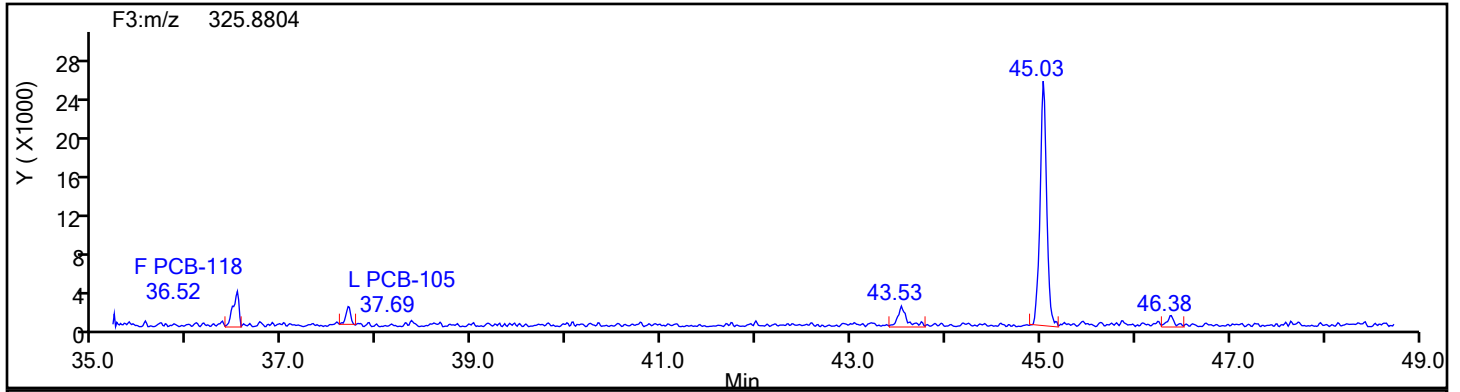
Reviewer: V4XA, 16-Jul-2024 21:25:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

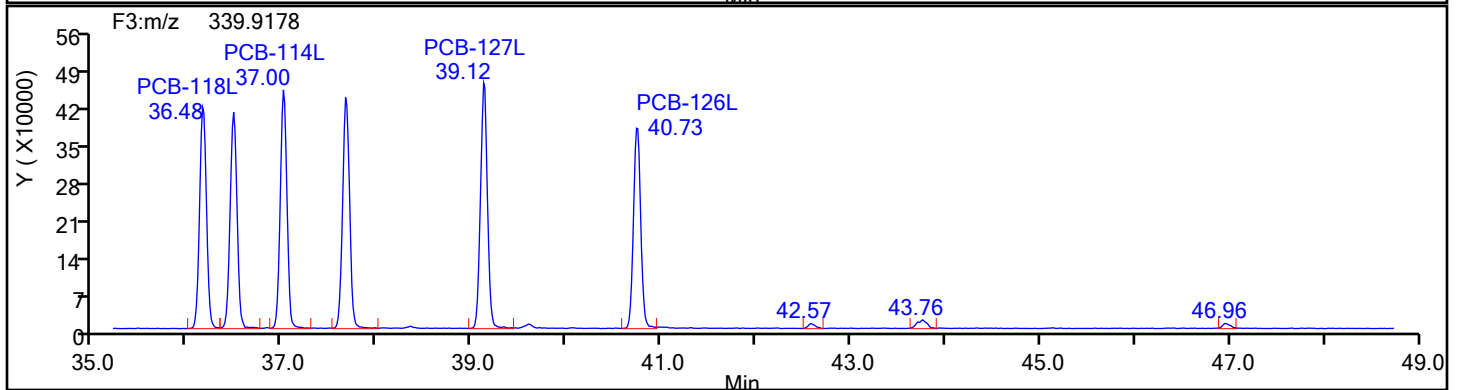
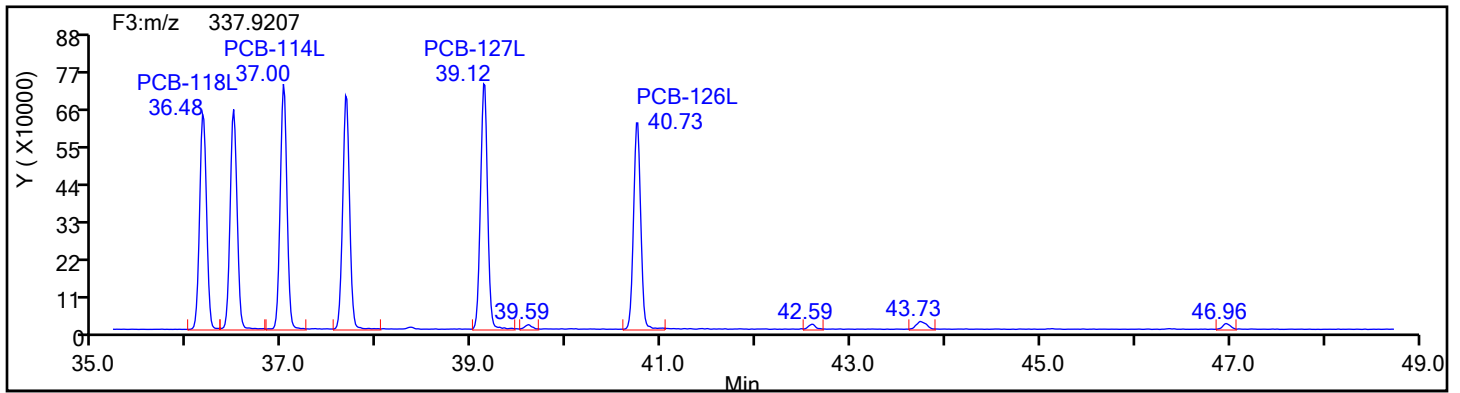
Audit Reason: Baseline

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

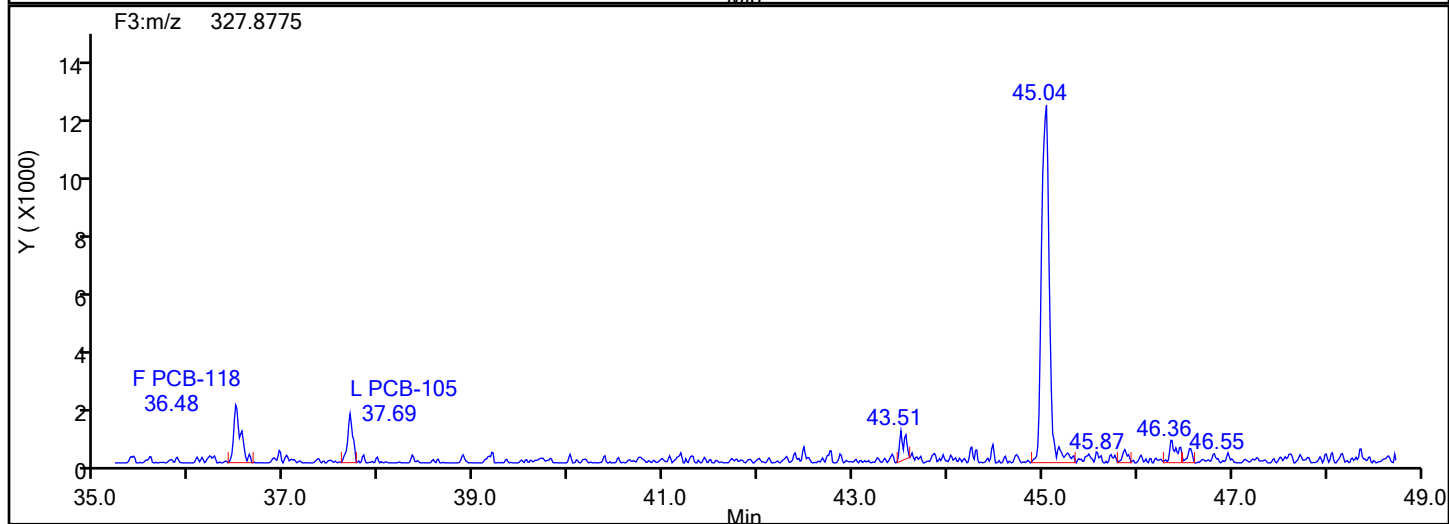
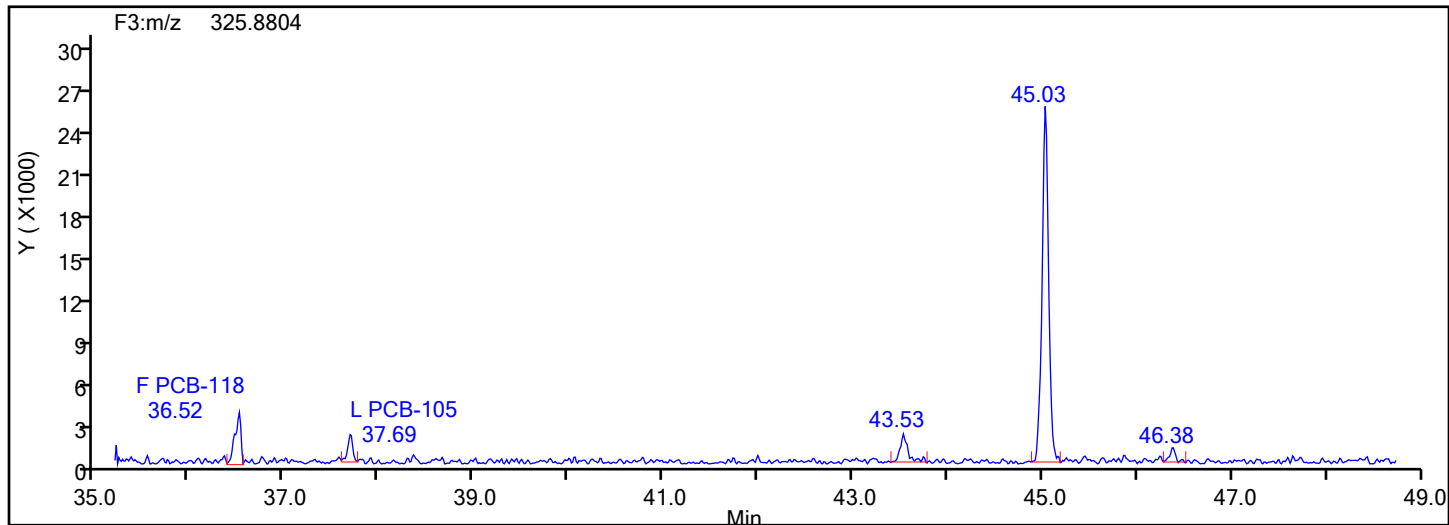


PePCB F3 Standards

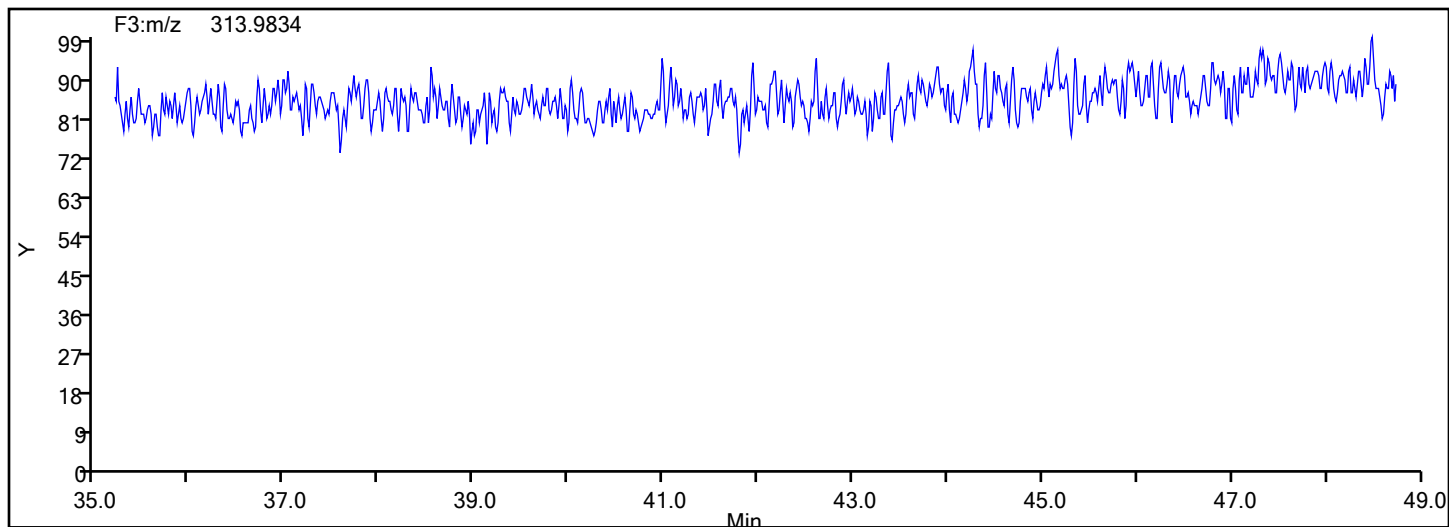


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

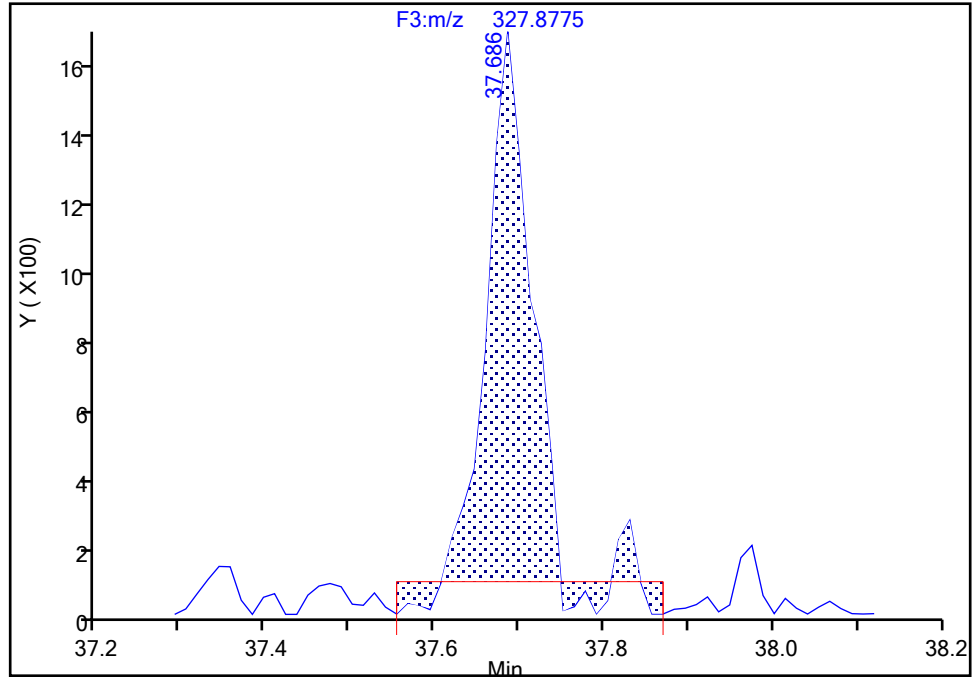
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

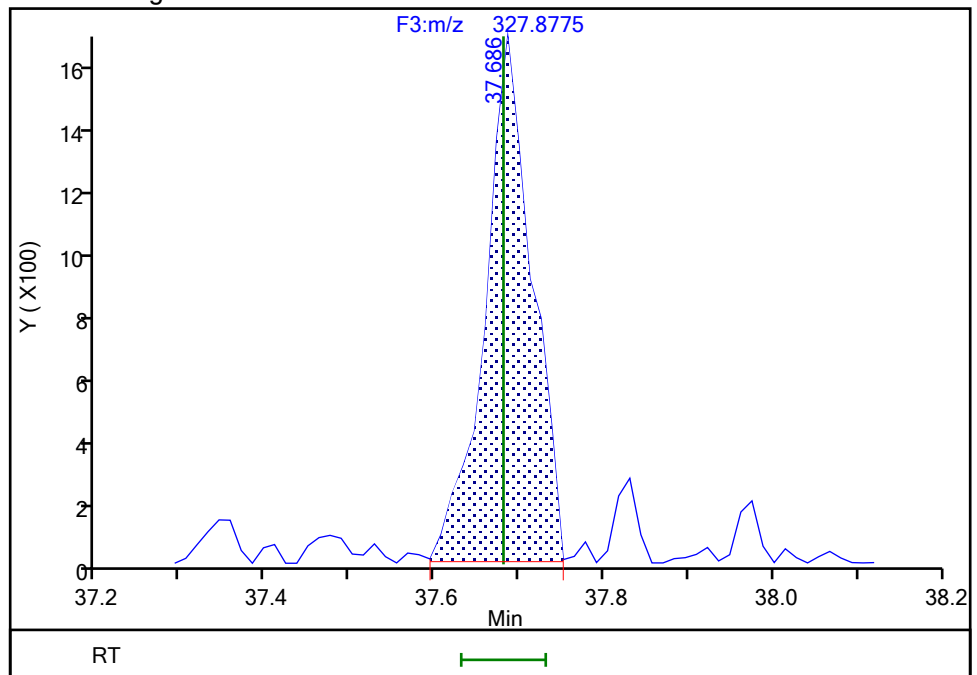
RT: 37.69
Area: 5093
Amount: 0.178829
Amount Units: pg/ul

Processing Integration Results



RT: 37.69
Area: 6225
Amount: 0.195367
Amount Units: pg/ul

Manual Integration Results



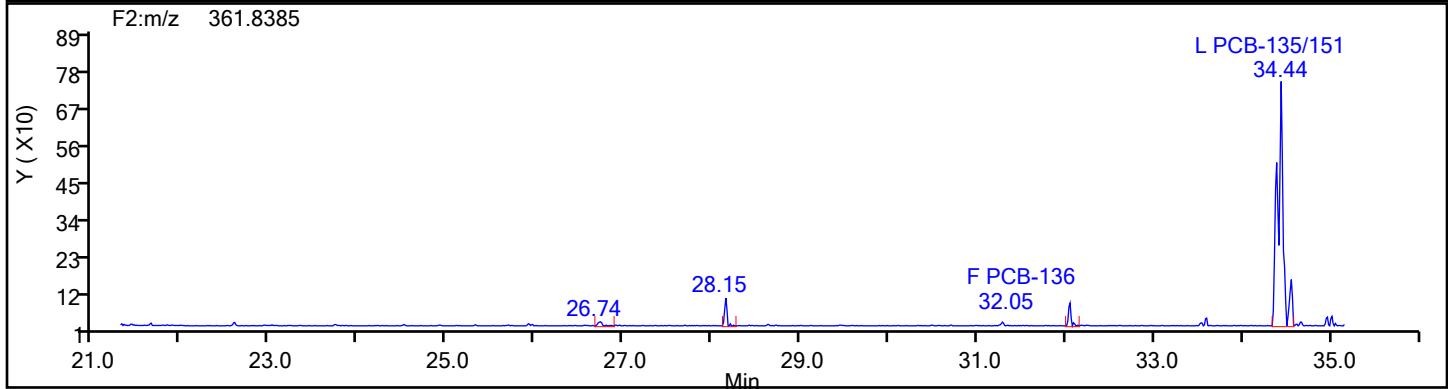
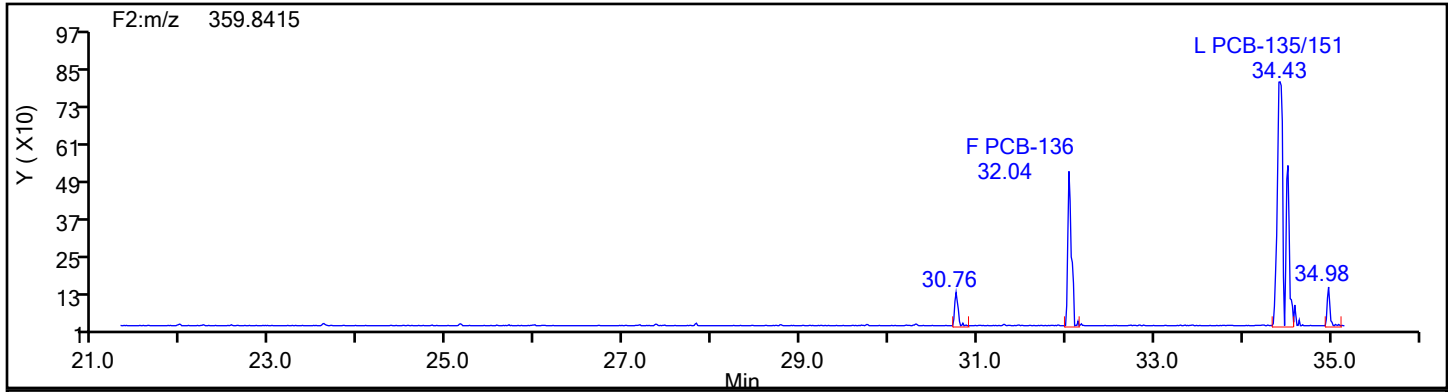
Reviewer: V4XA, 16-Jul-2024 21:26:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

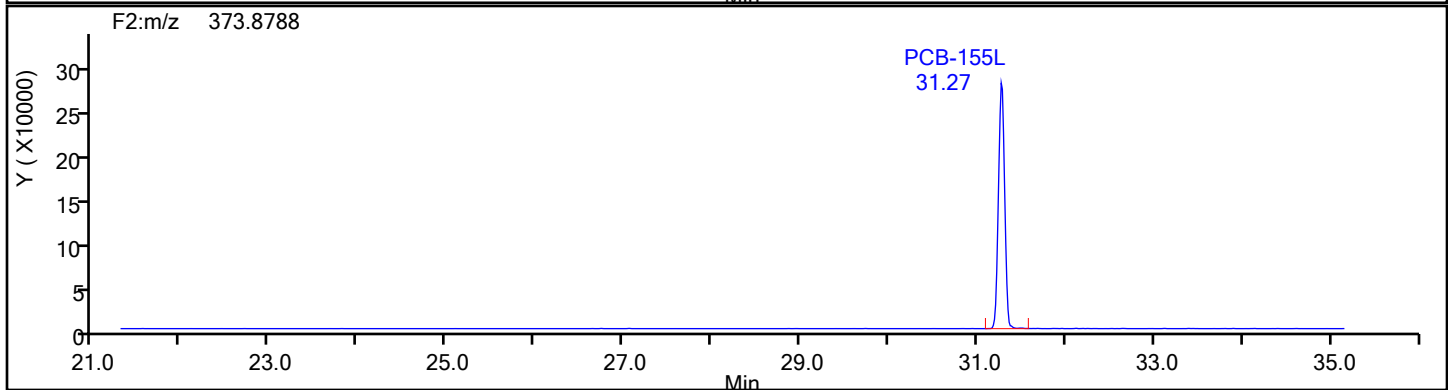
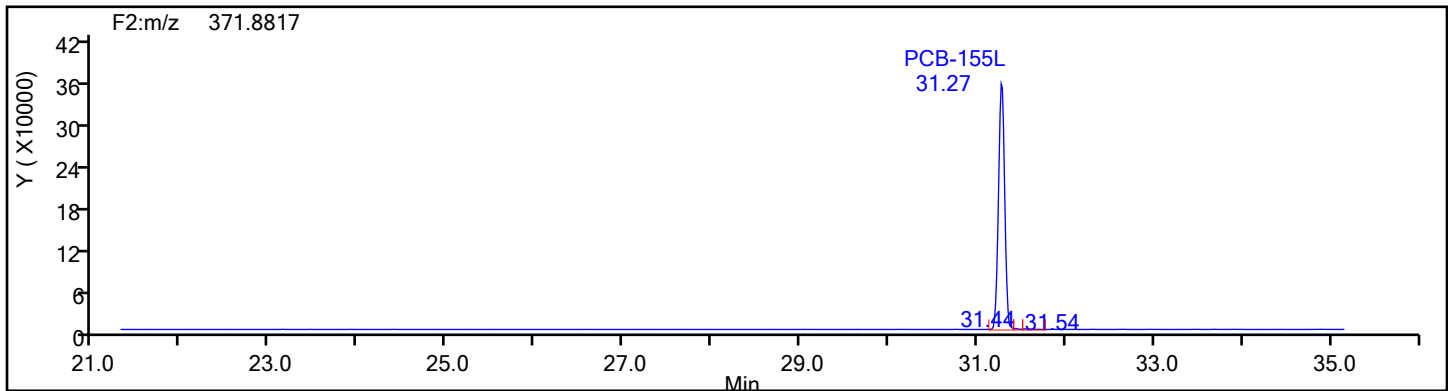
Audit Reason: Baseline

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

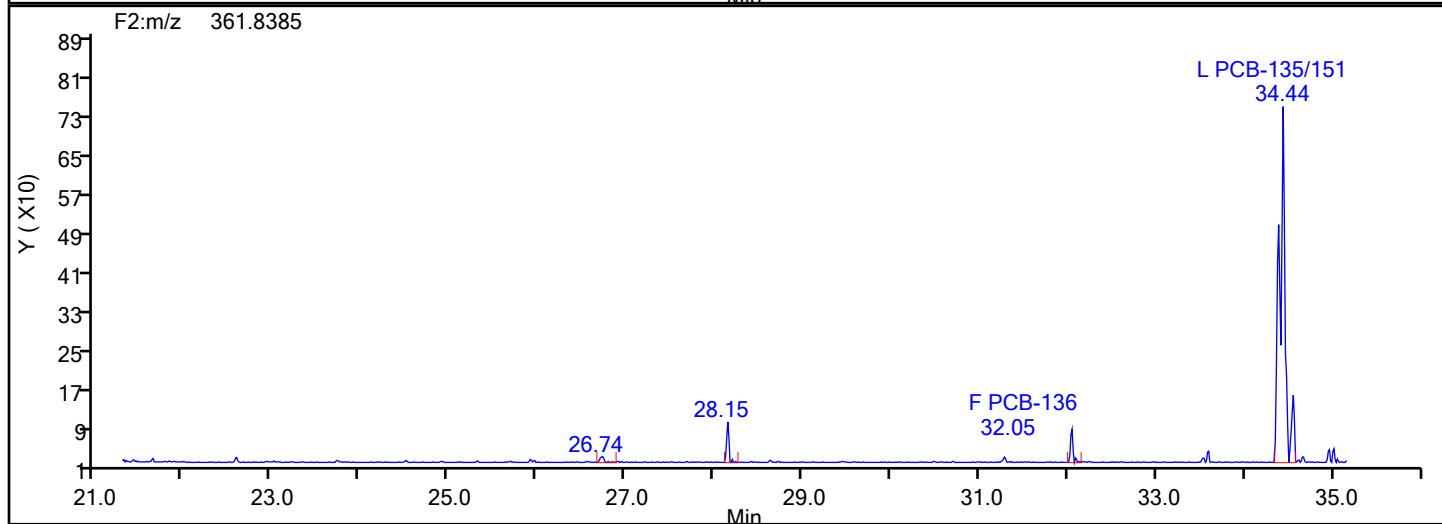
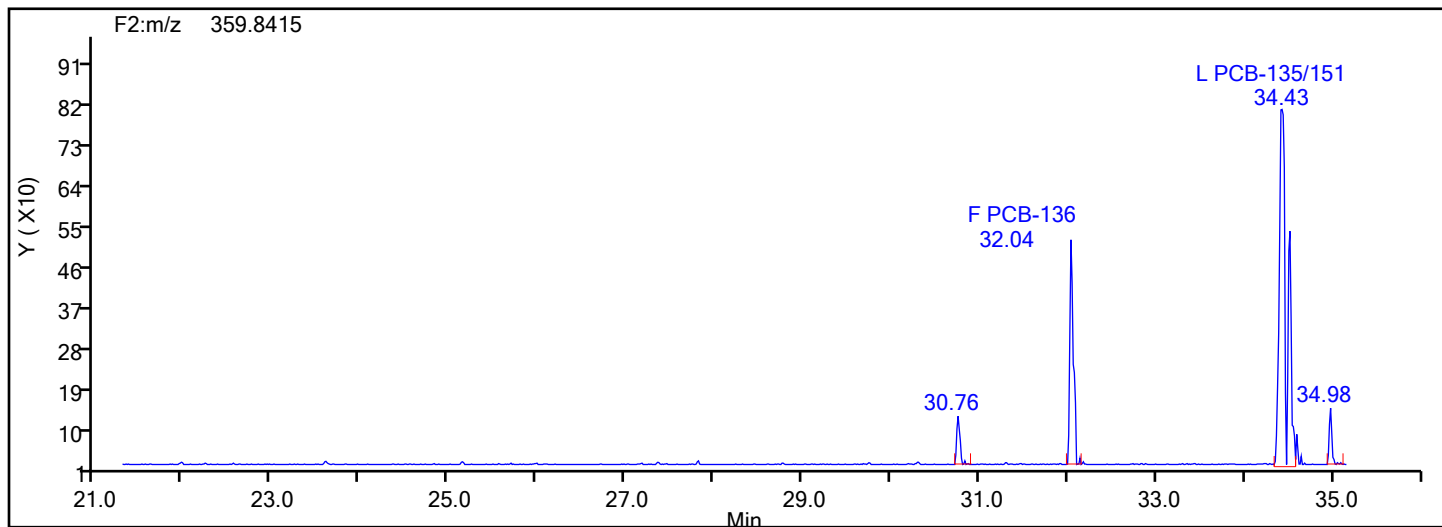


HxPCB F2 Standards

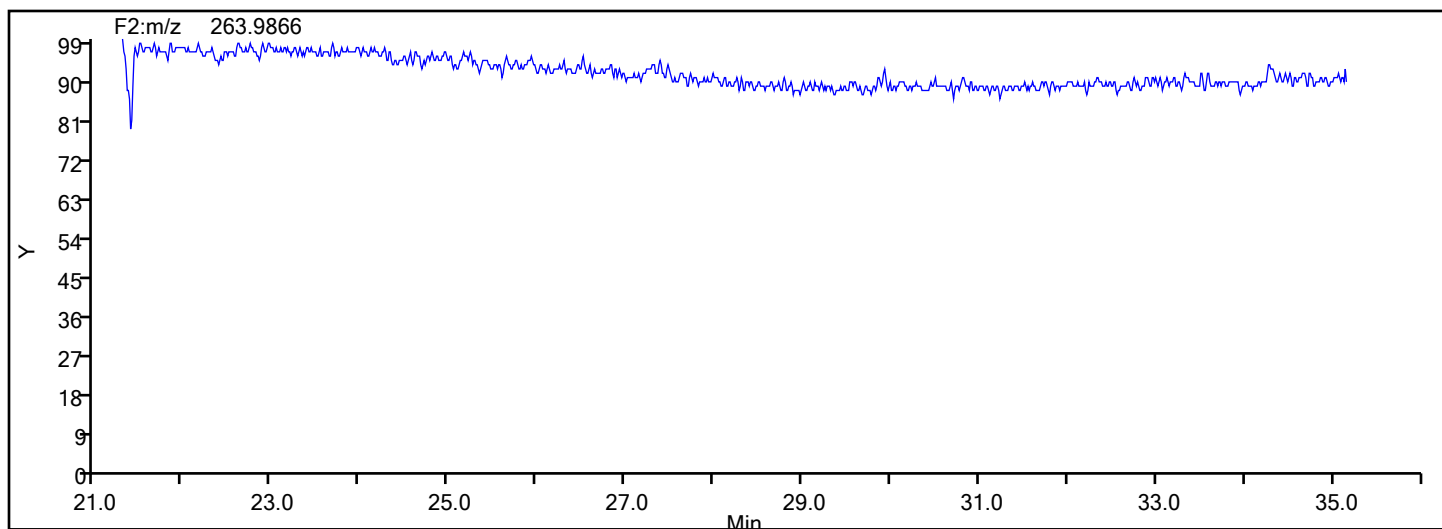


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

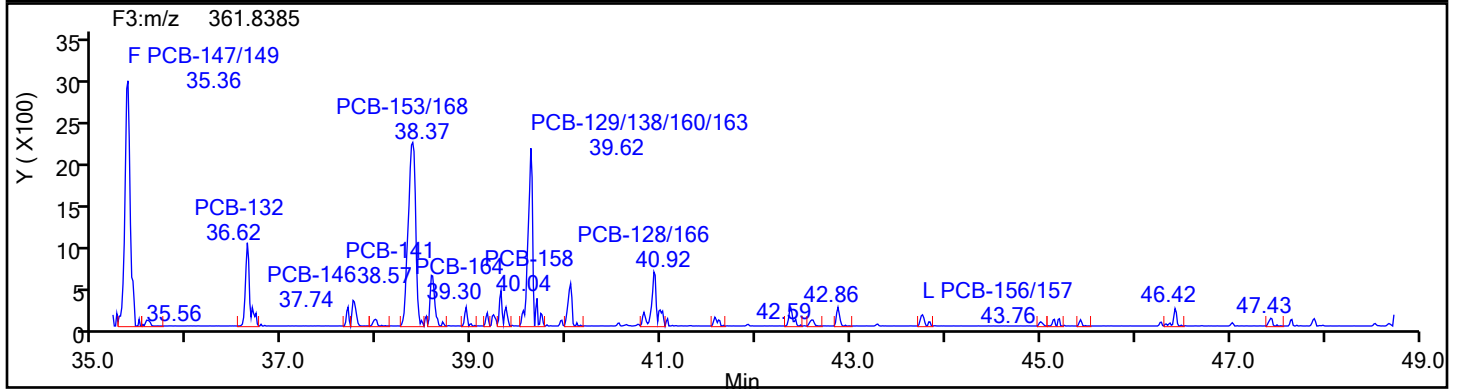
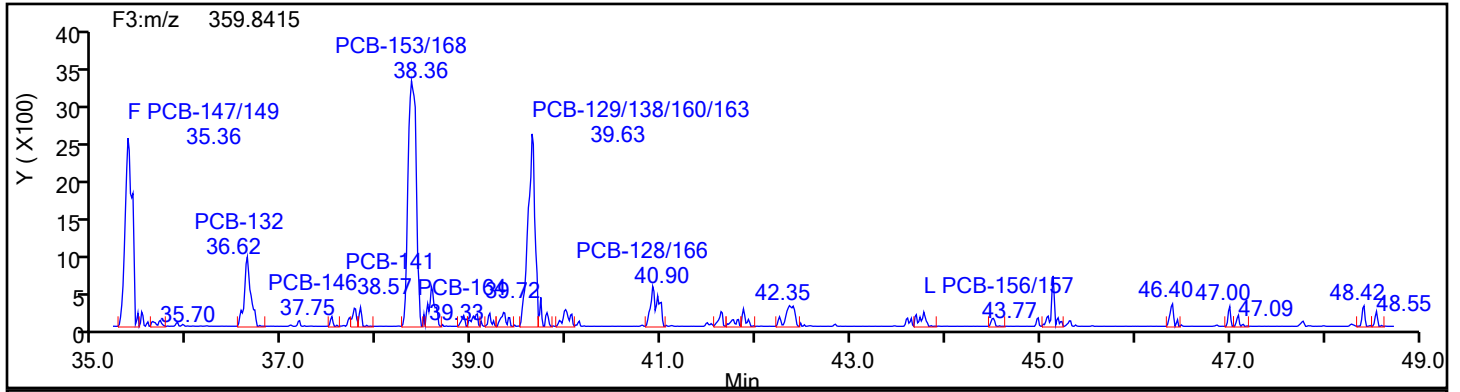


HxPCB F2 Lock Mass

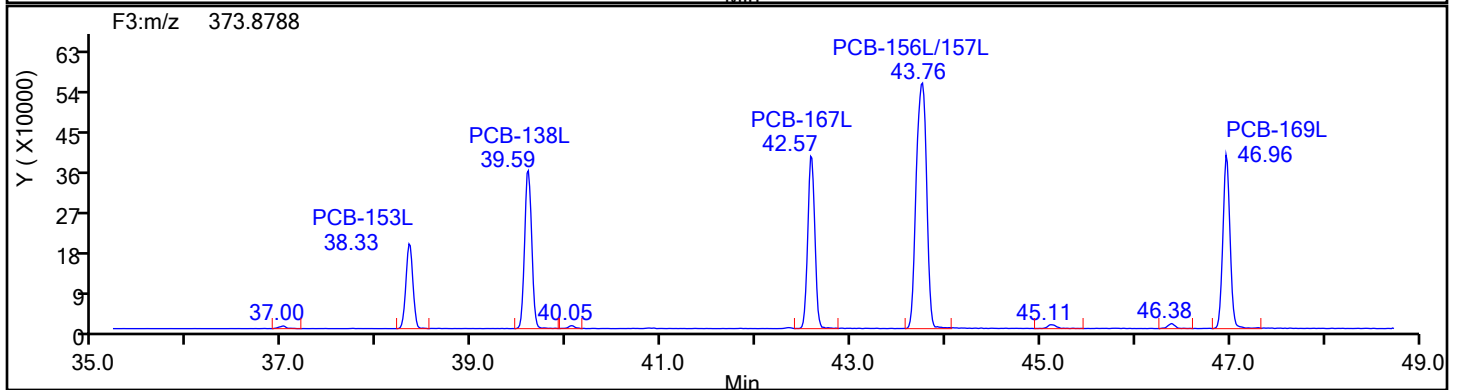
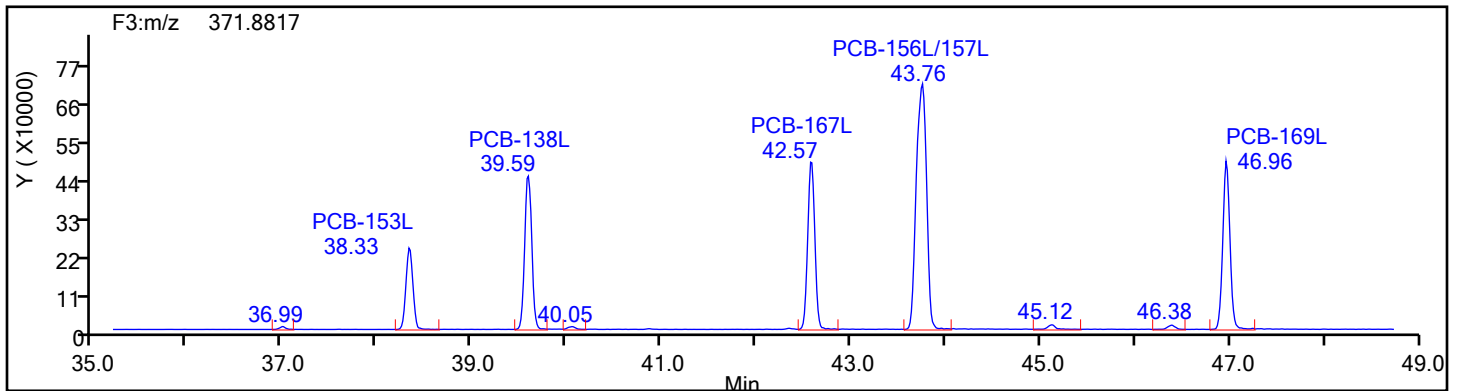


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

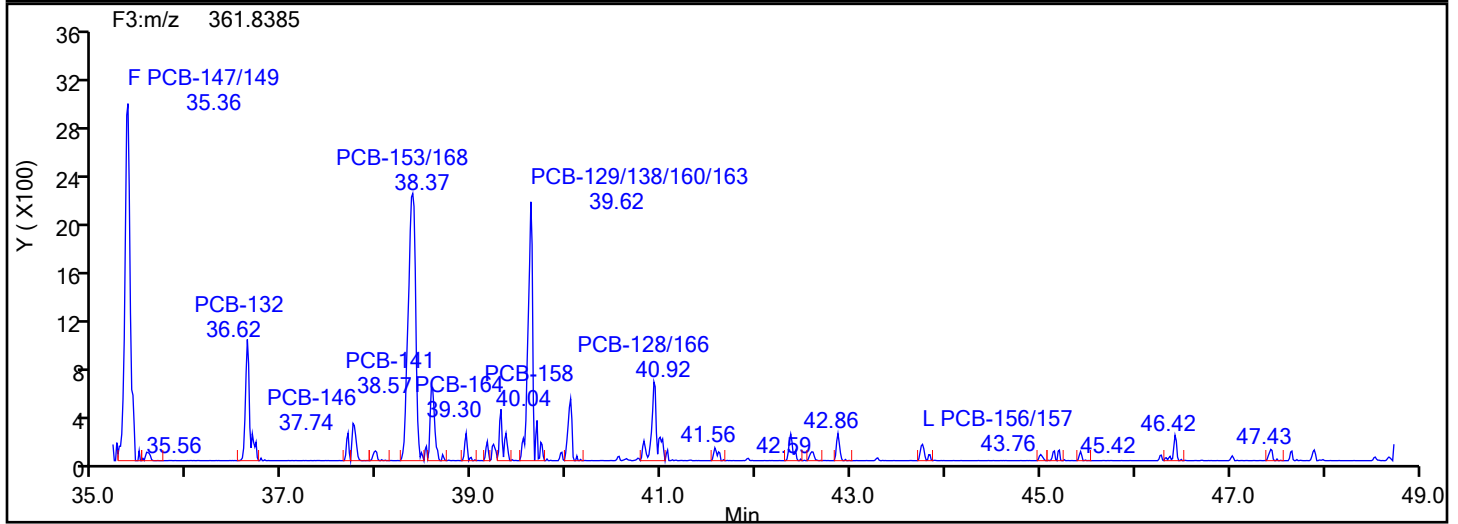
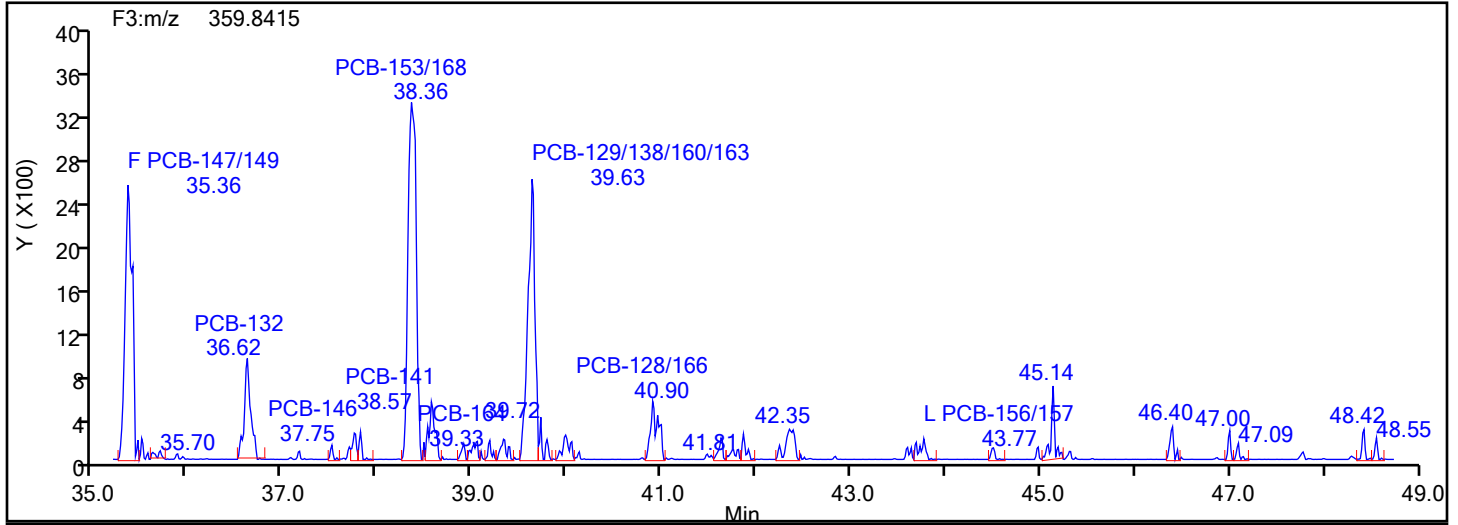


HxPCB F3 Standards

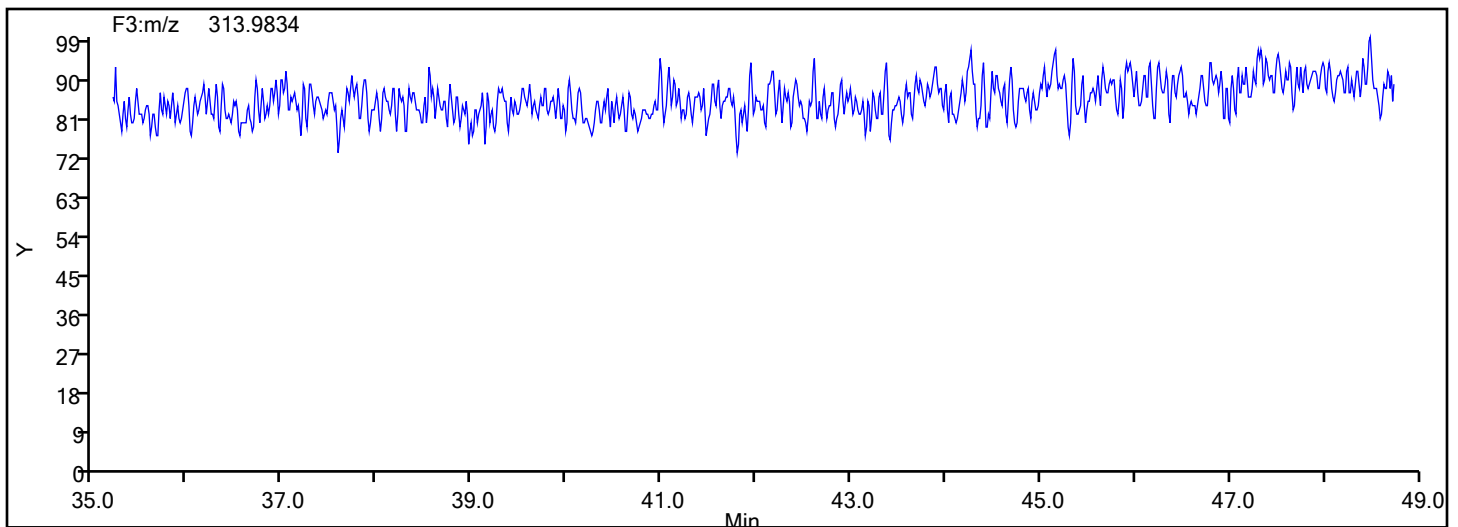


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

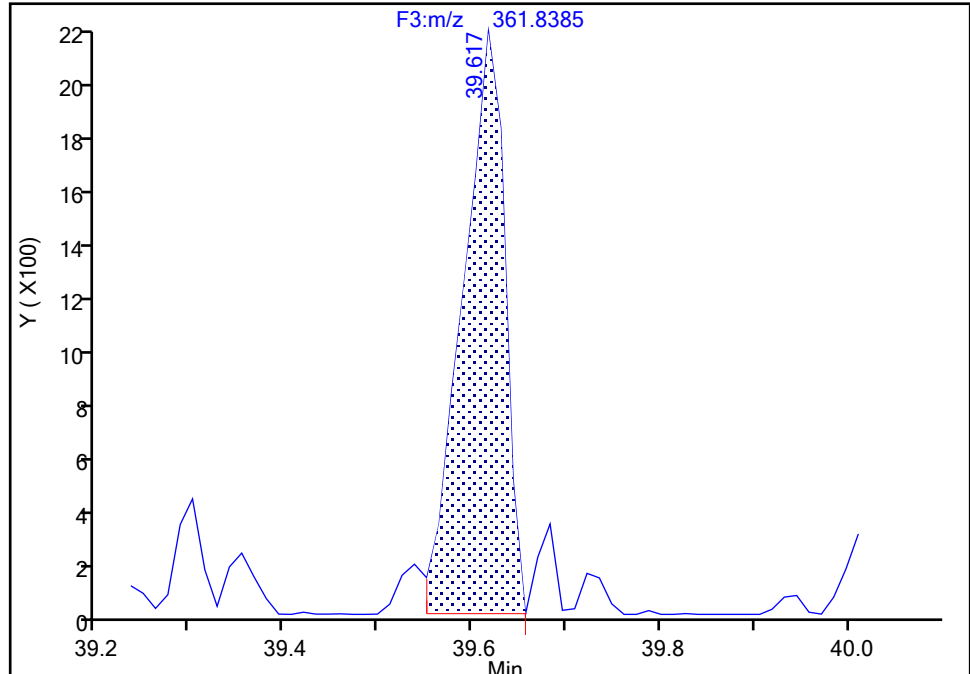
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Injection Date: 16-Jul-2024 04:59:00 Instrument ID: D2D
Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

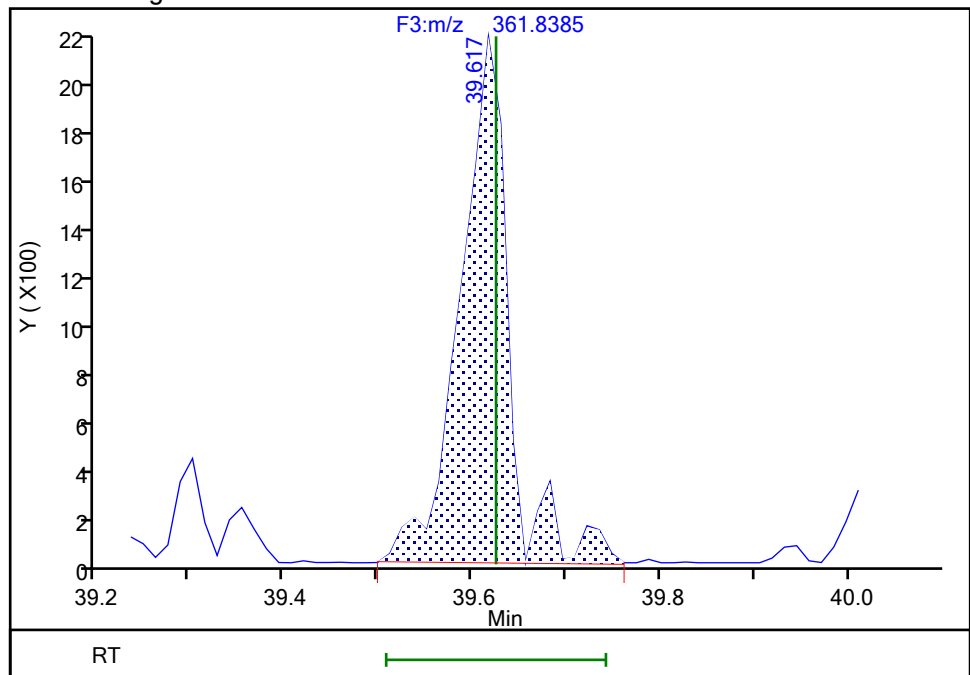
RT: 39.62
Area: 6727
Amount: 0.447151
Amount Units: pg/ul

Processing Integration Results



RT: 39.62
Area: 7803
Amount: 0.471257
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:40:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

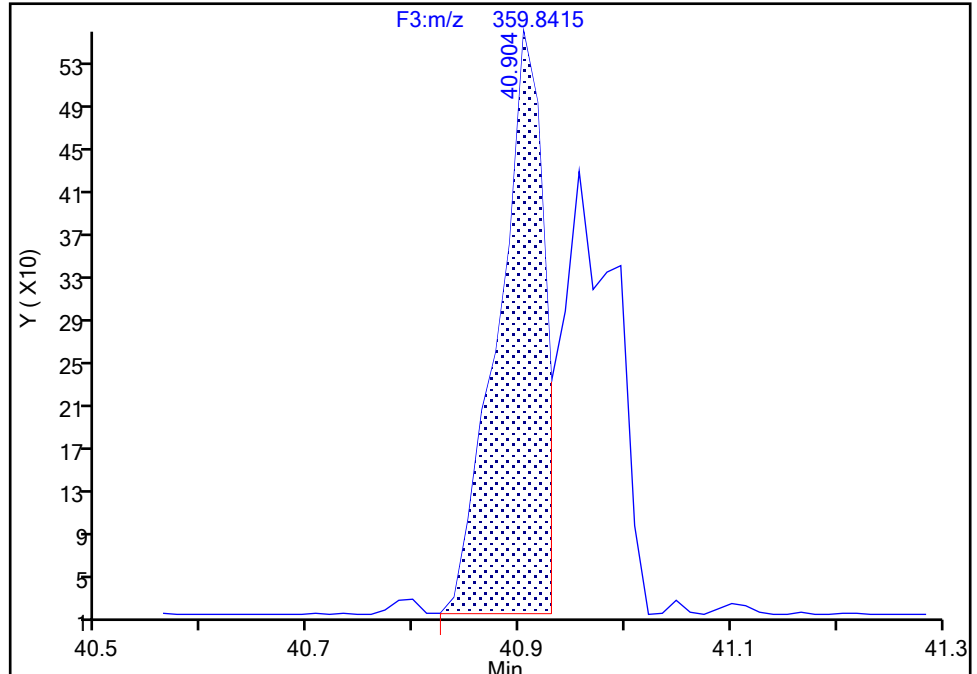
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Lims ID: 140-37232-A-3-D Lab Sample ID: 140-37232-3
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

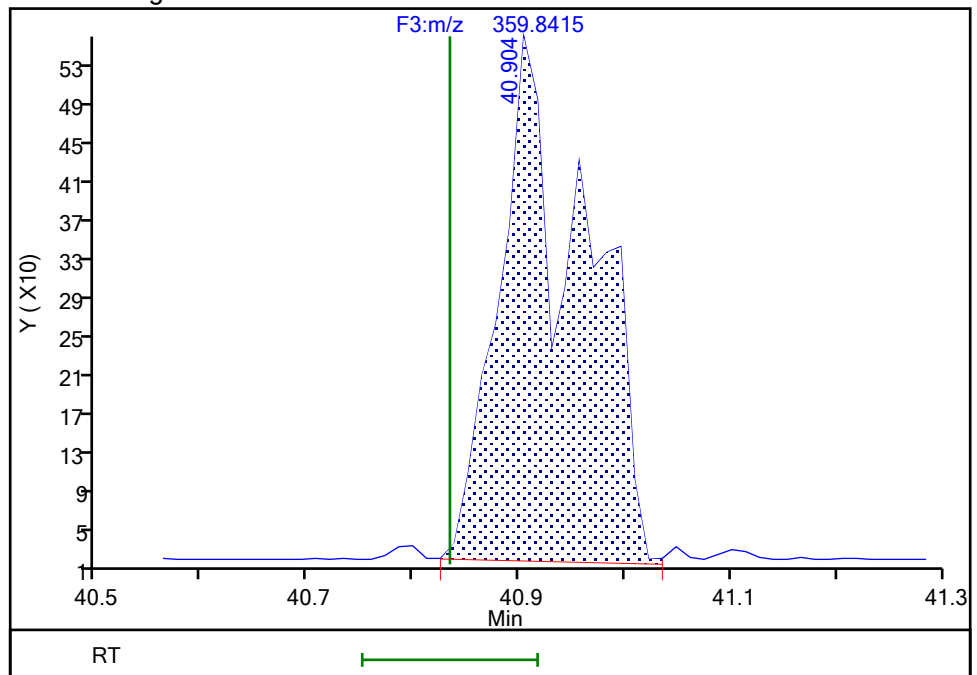
RT: 40.90
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Amount: 0.096529
Amount Units: pg/ul

Processing Integration Results



RT: 40.90
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Amount: 0.128130
Amount Units: pg/ul

Manual Integration Results



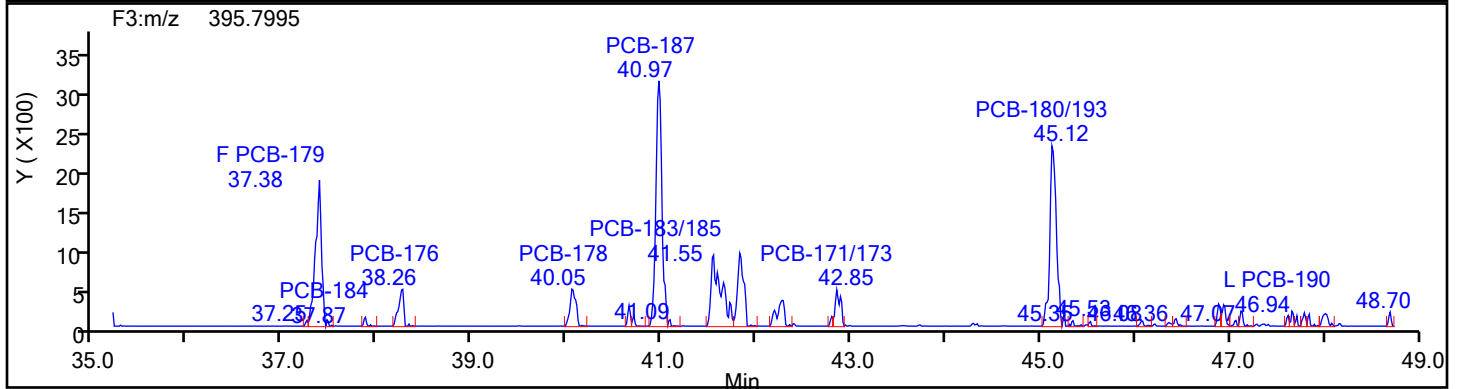
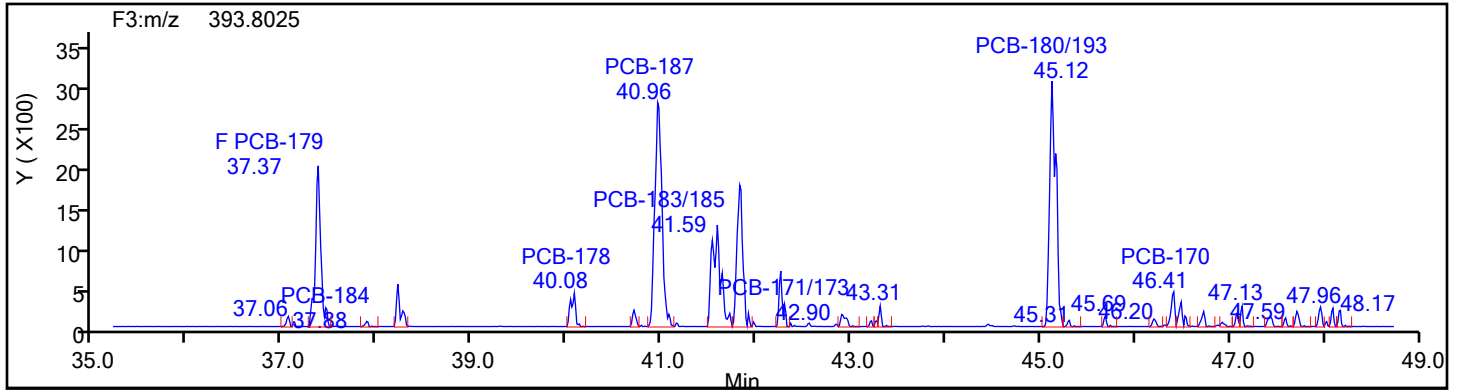
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Audit Action: Manually Integrated

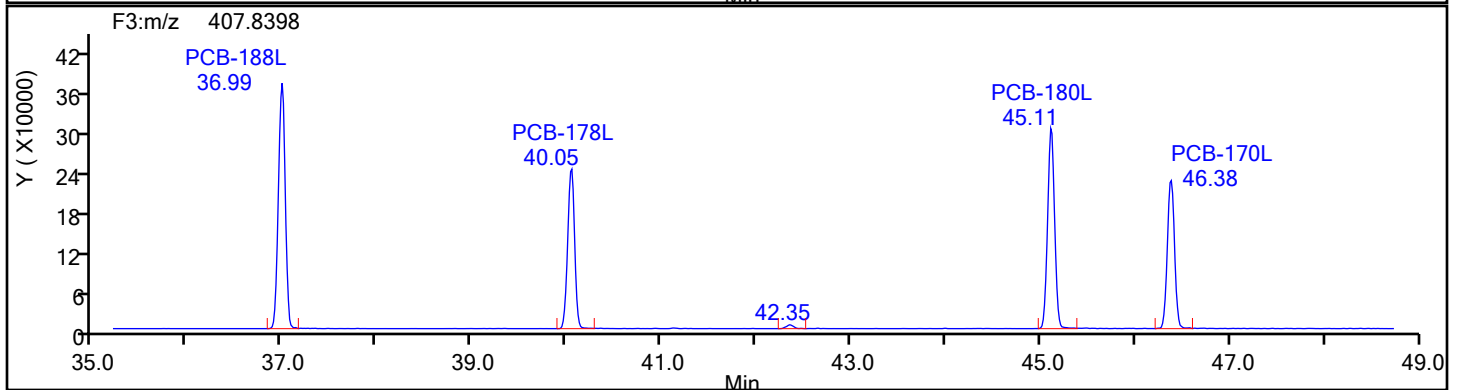
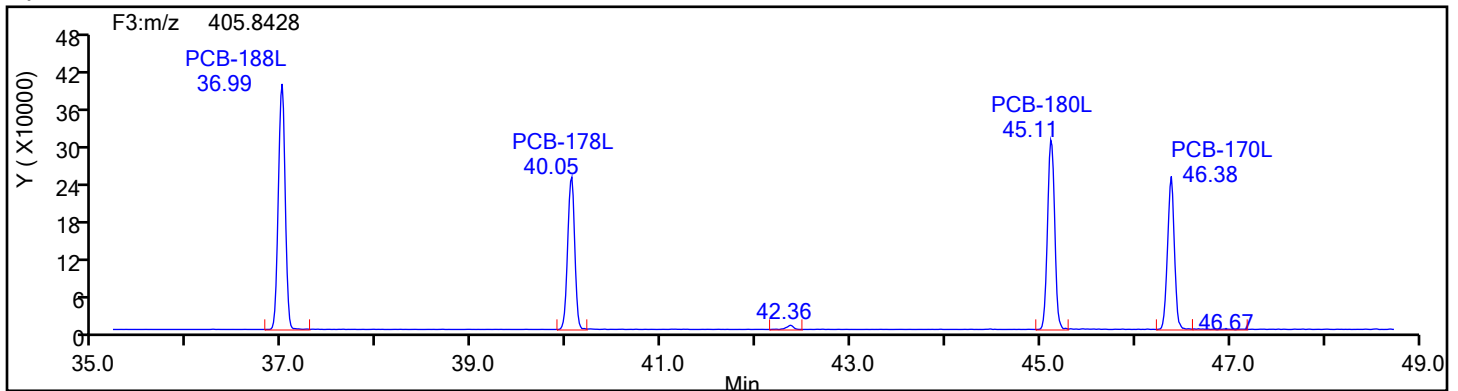
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

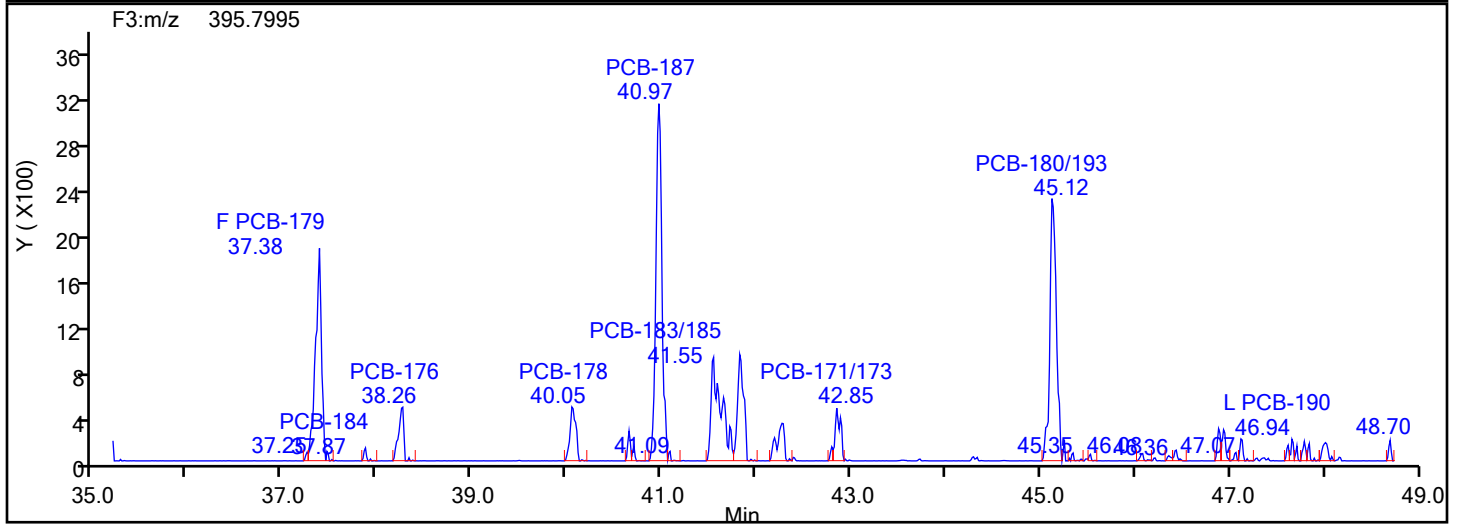
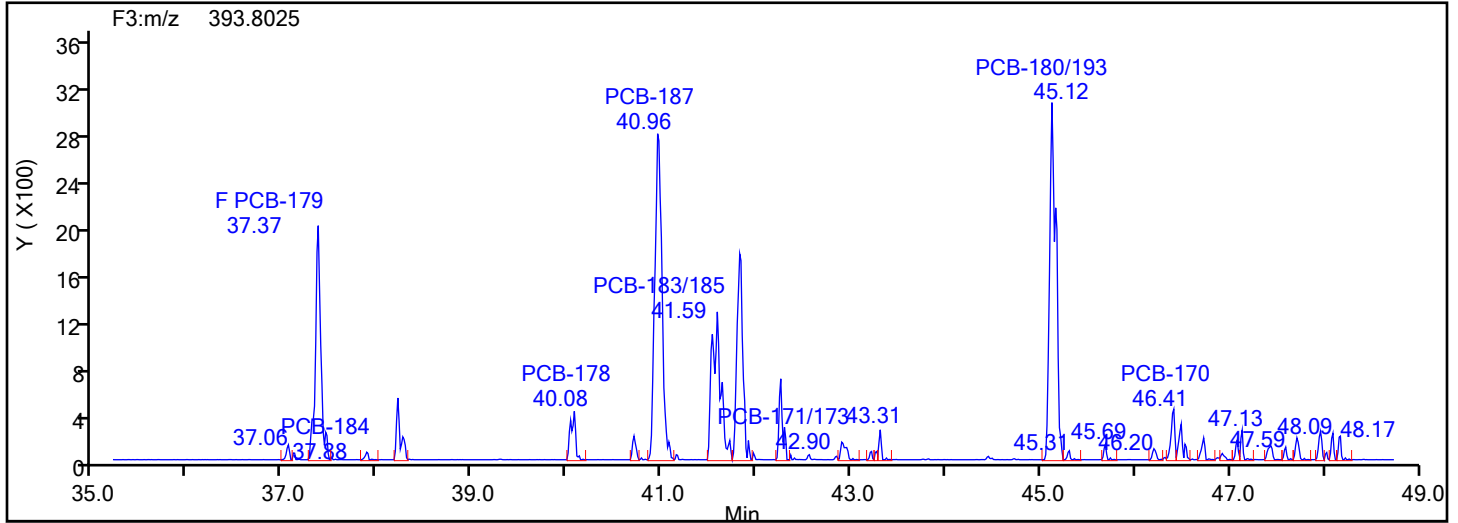


HpPCB F3 Standards

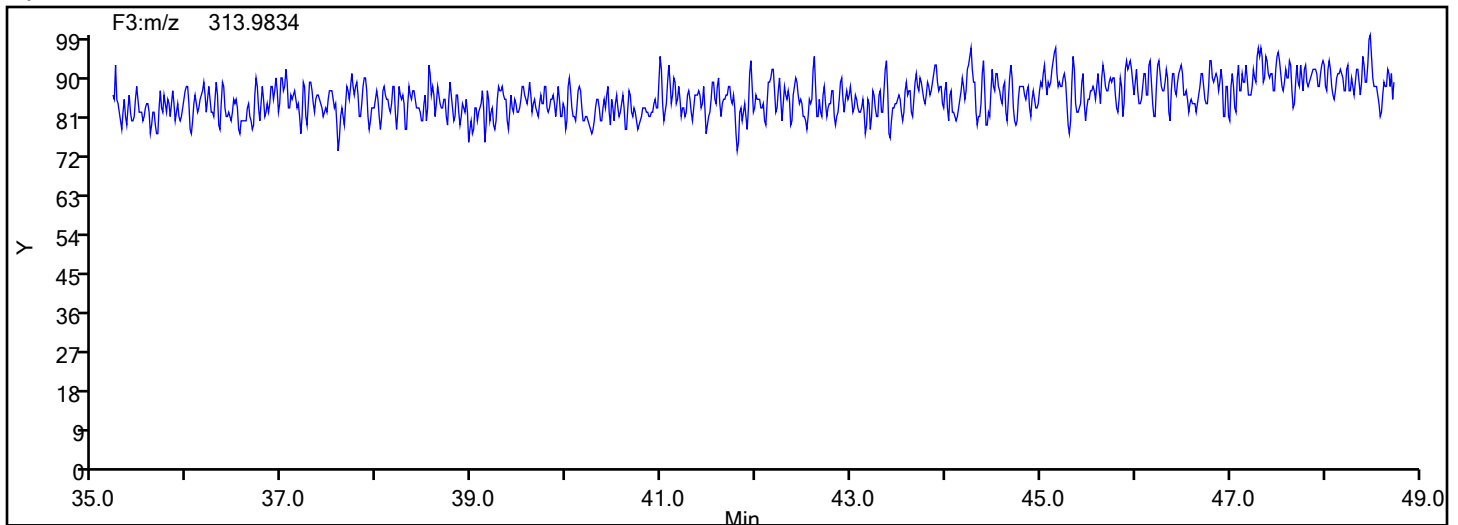


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

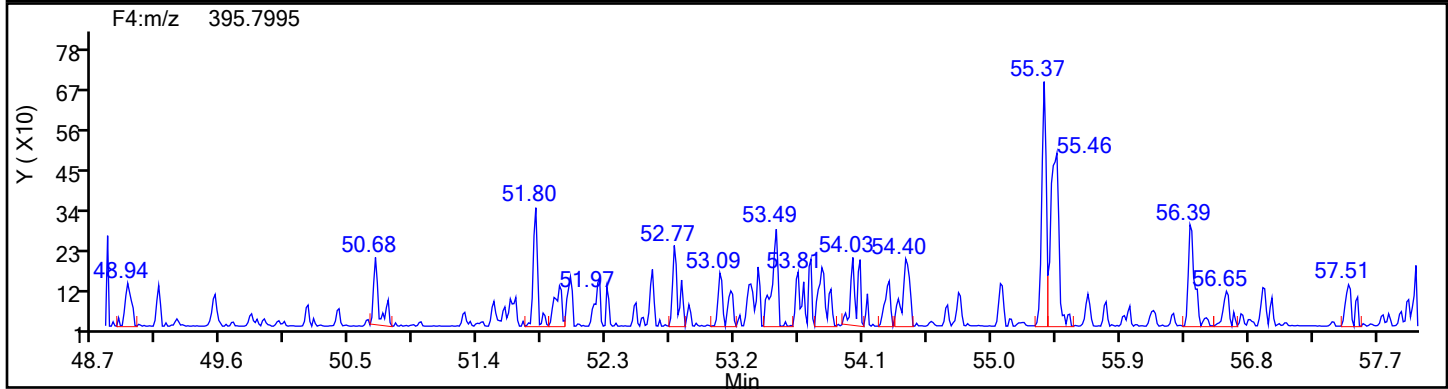
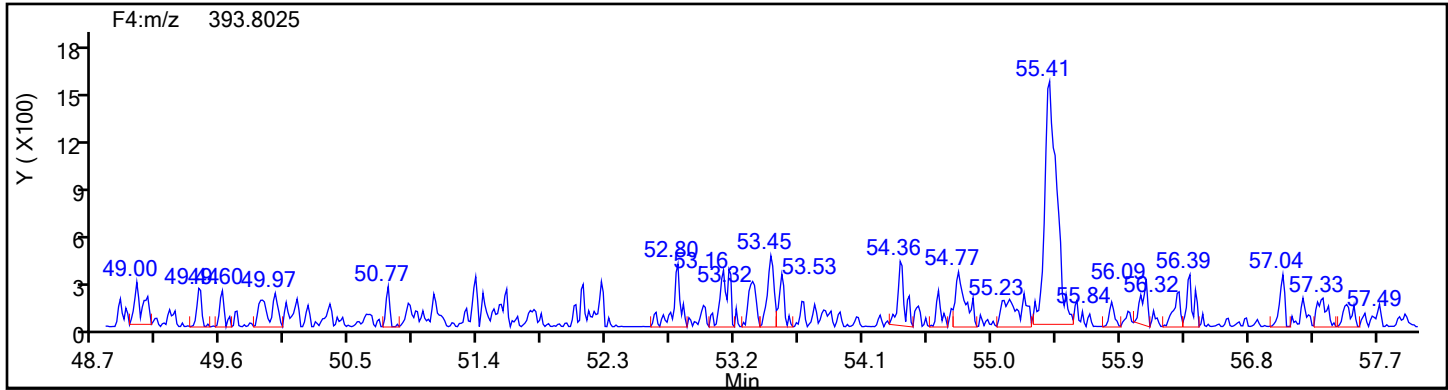


HpPCB F3 Lock Mass

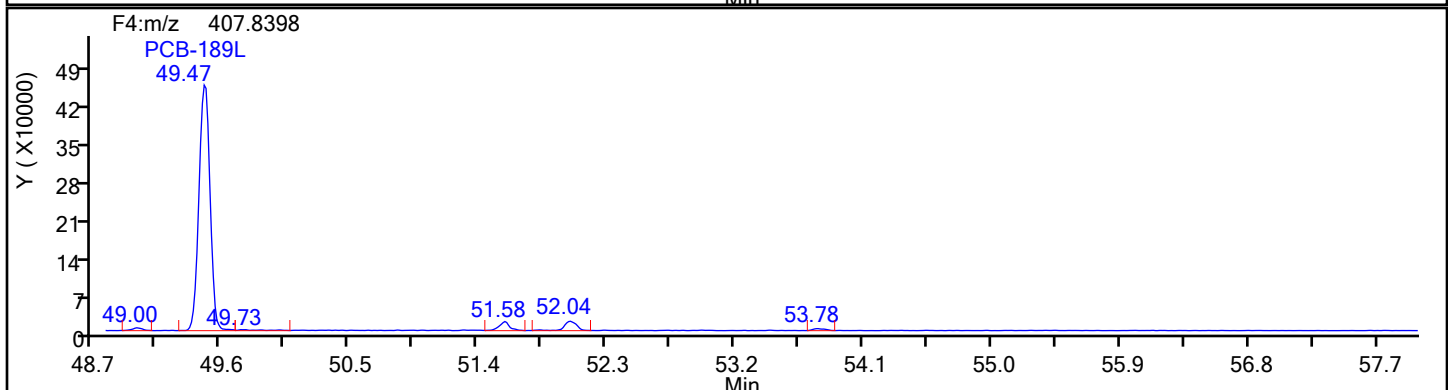
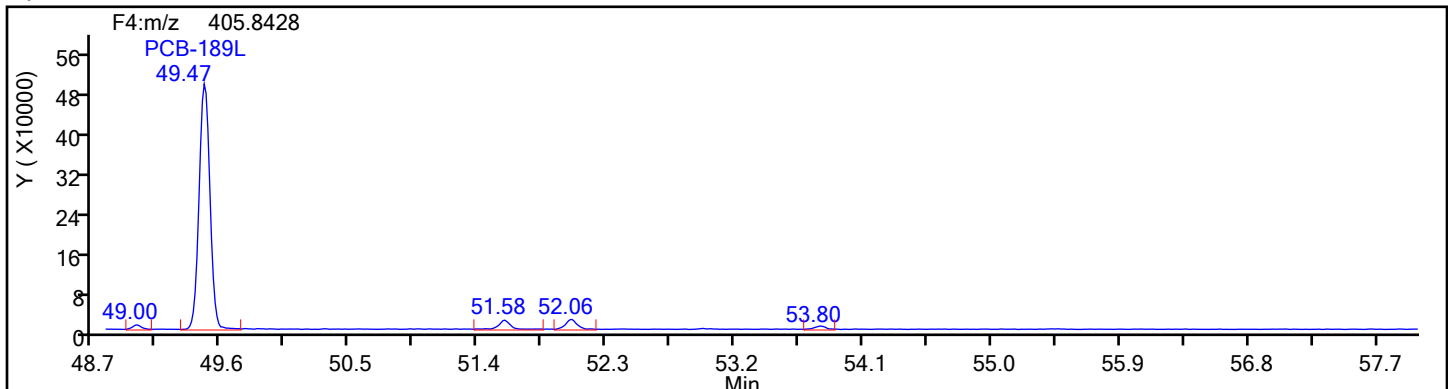


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

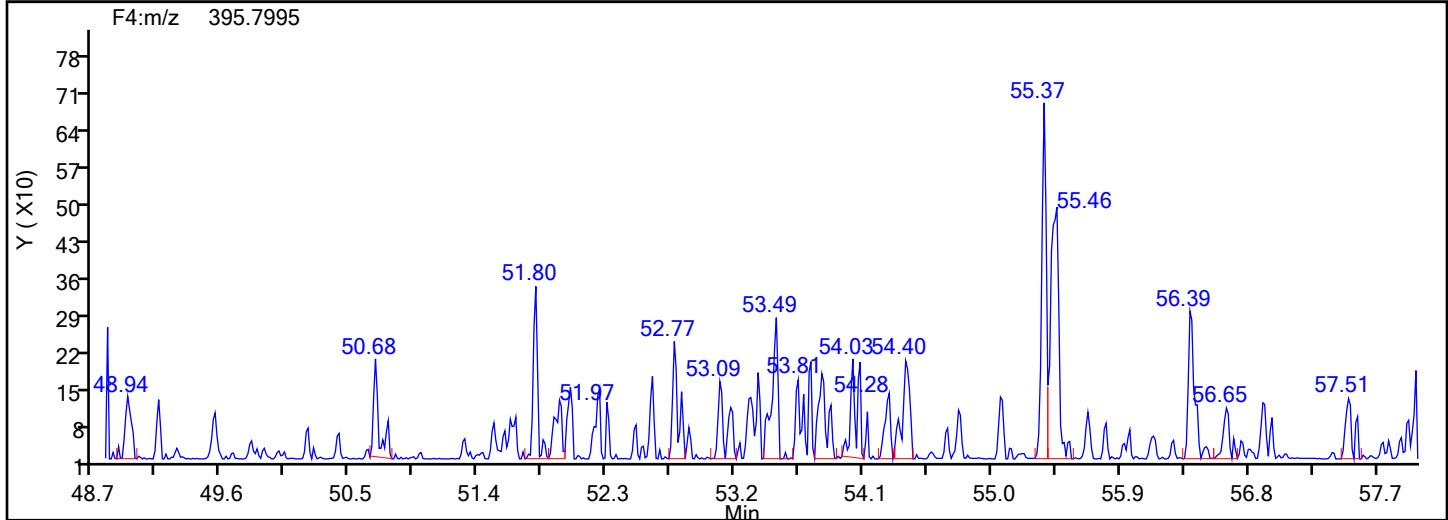
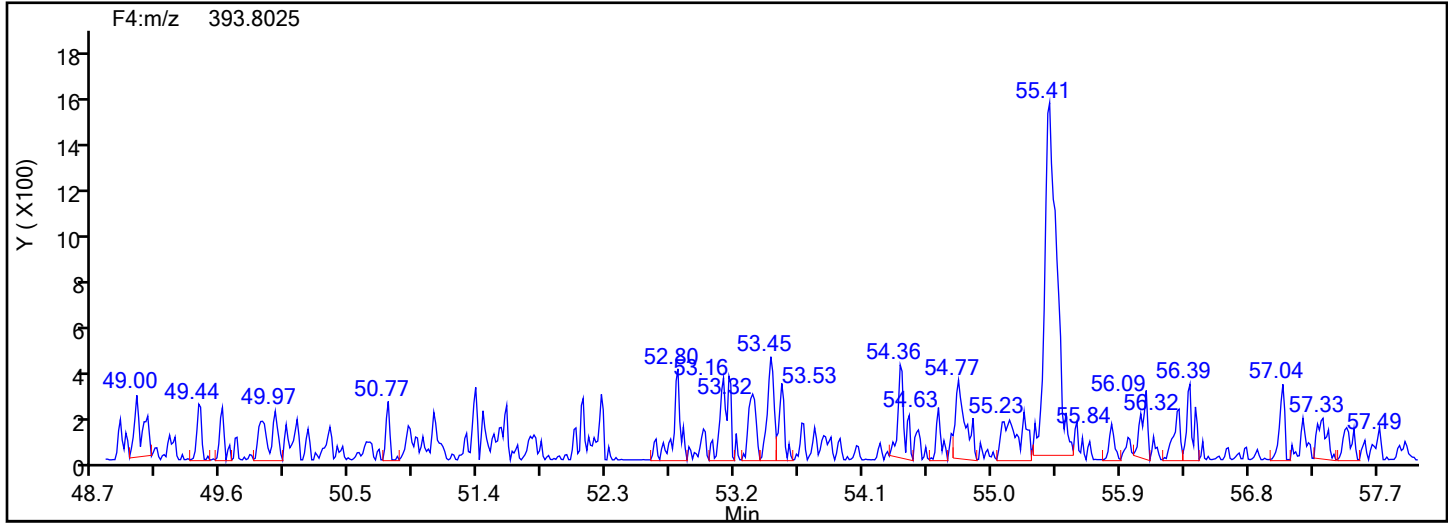


HpPCB F4 Standards

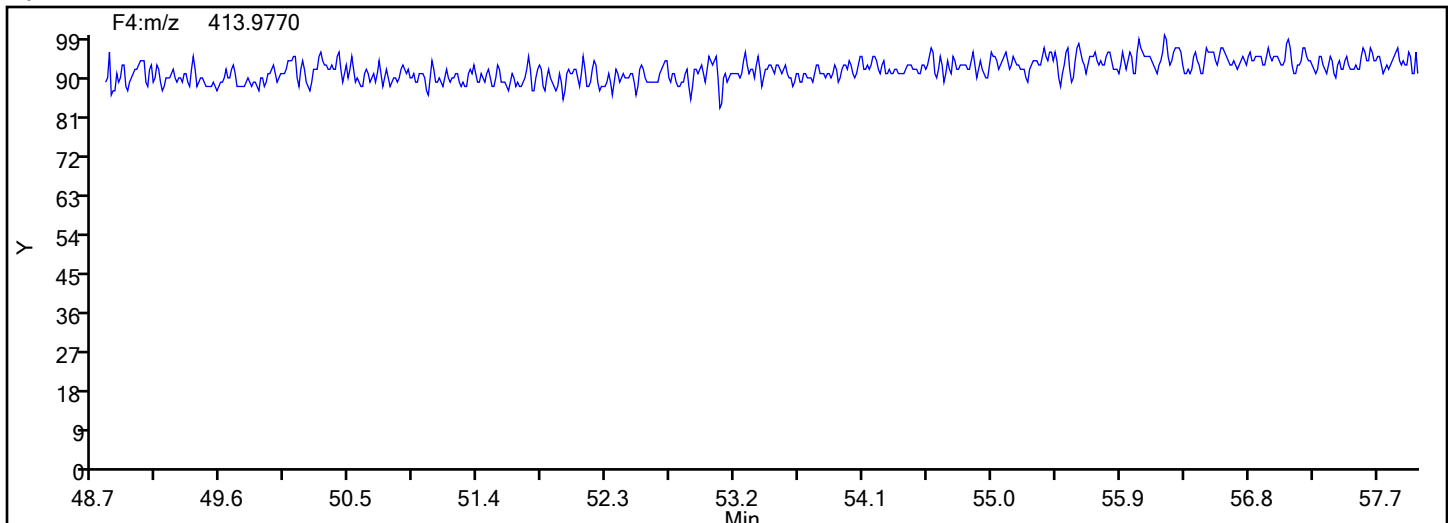


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

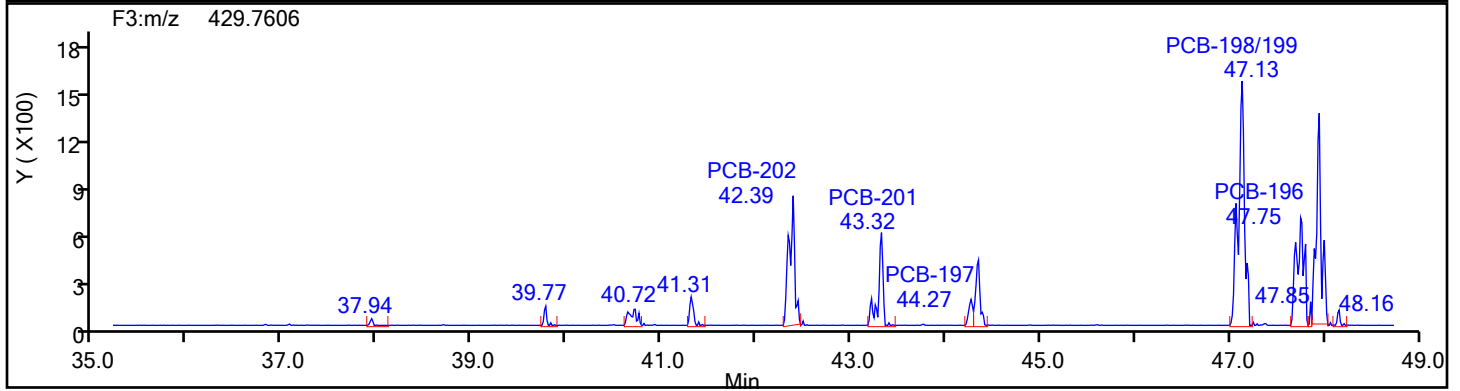
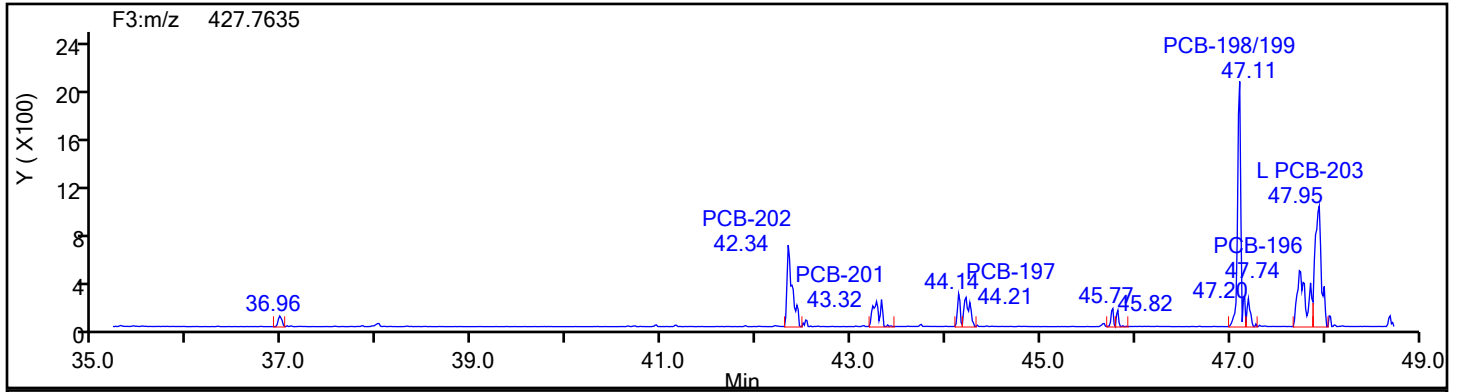


HpPCB F4 Lock Mass

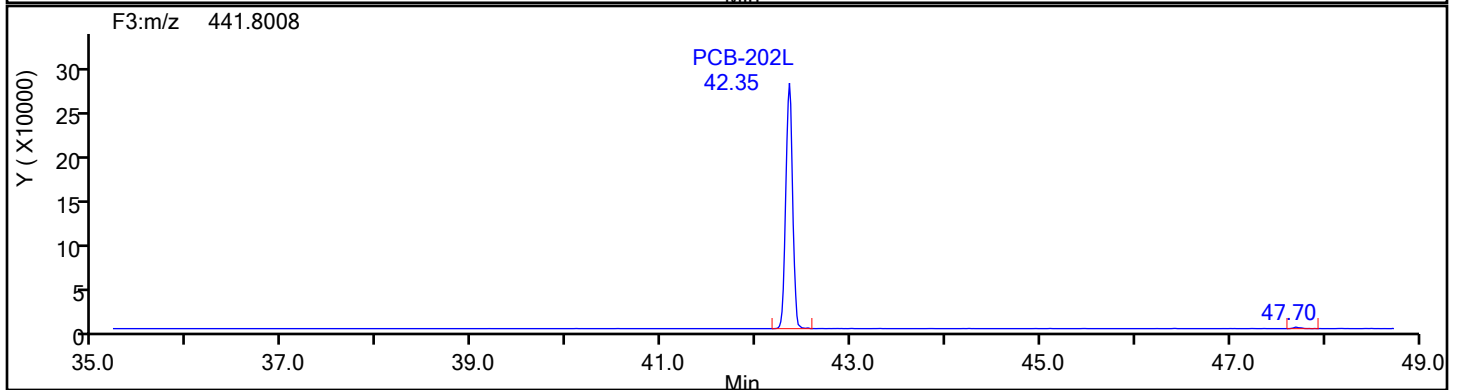
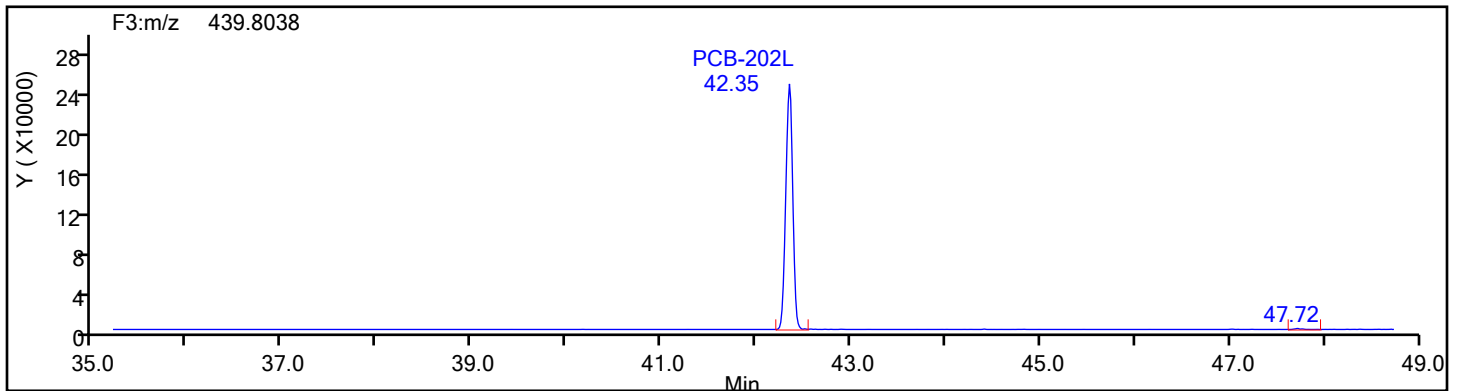


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

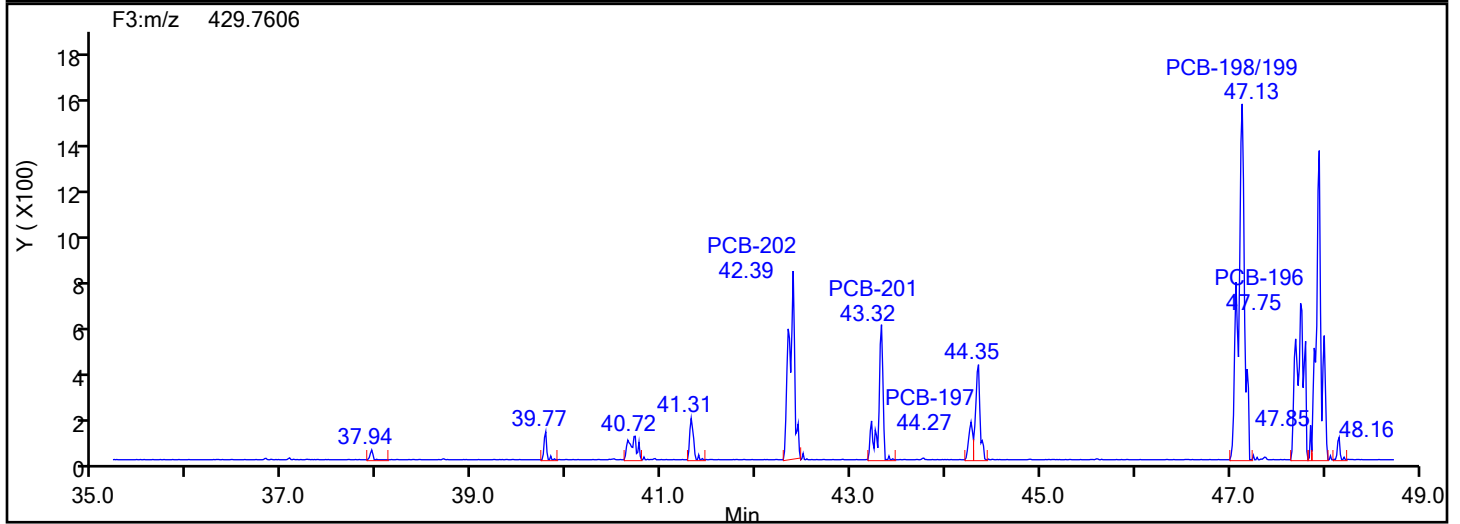
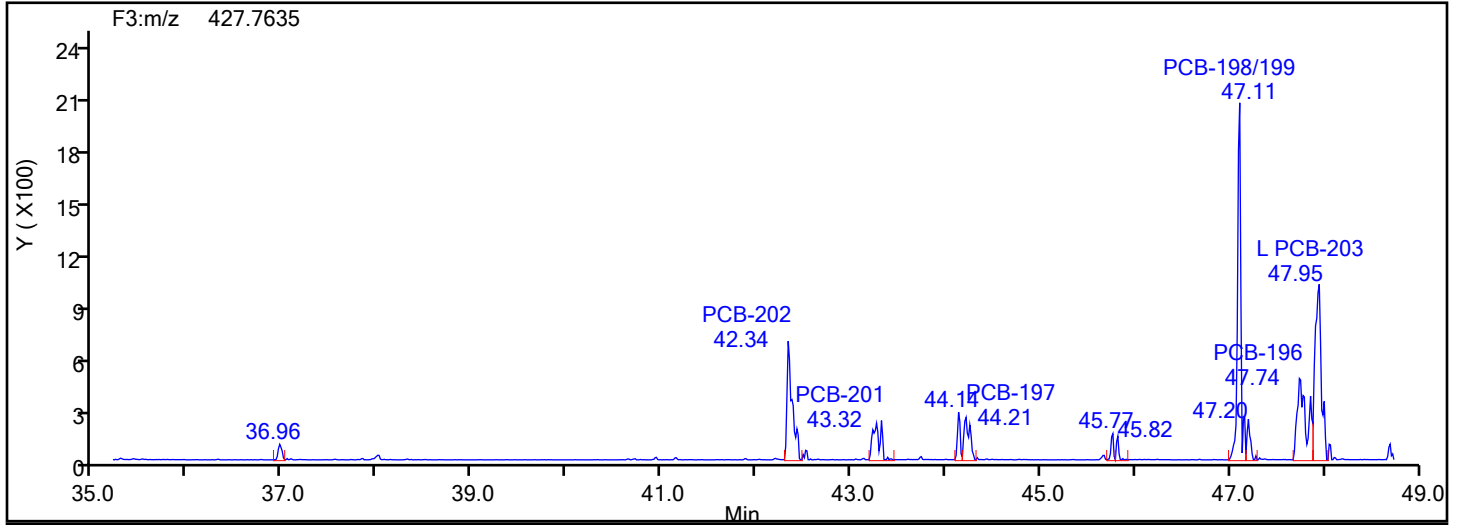


OcPCB F3 Standards

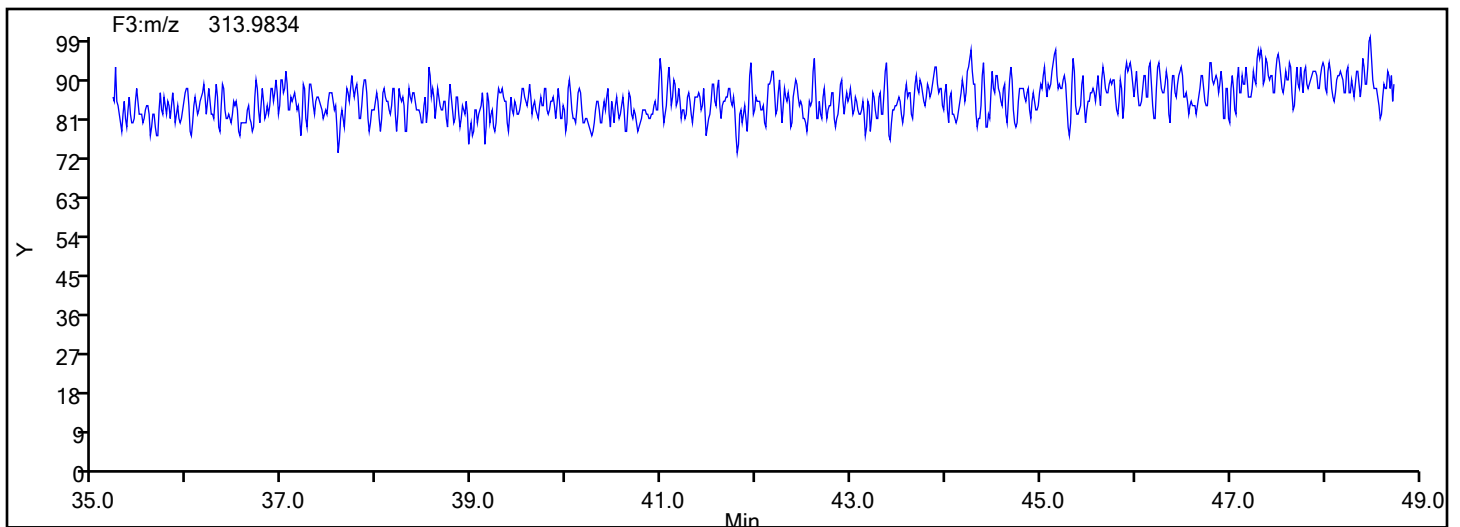


Eurofins Knoxville

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Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

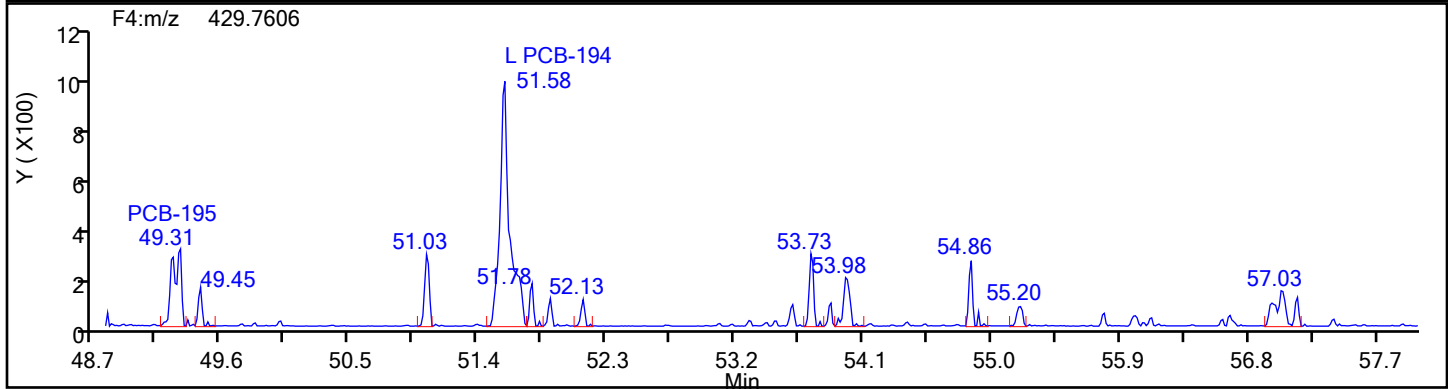
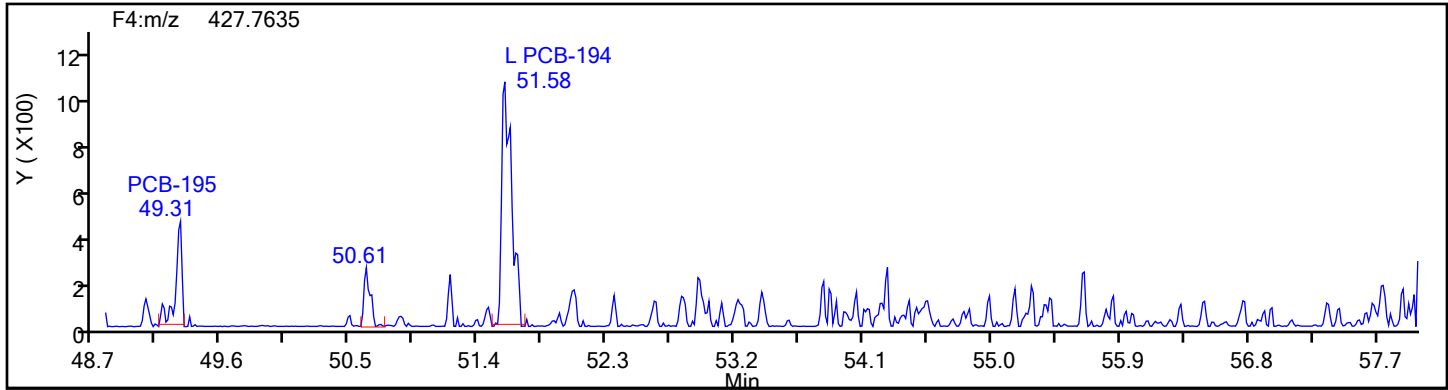


OcPCB F3 Lock Mass

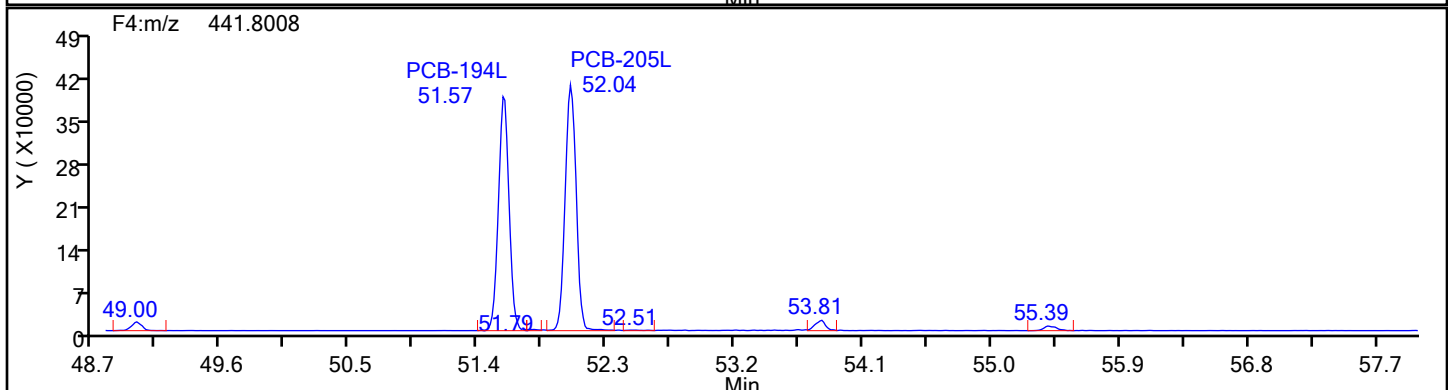
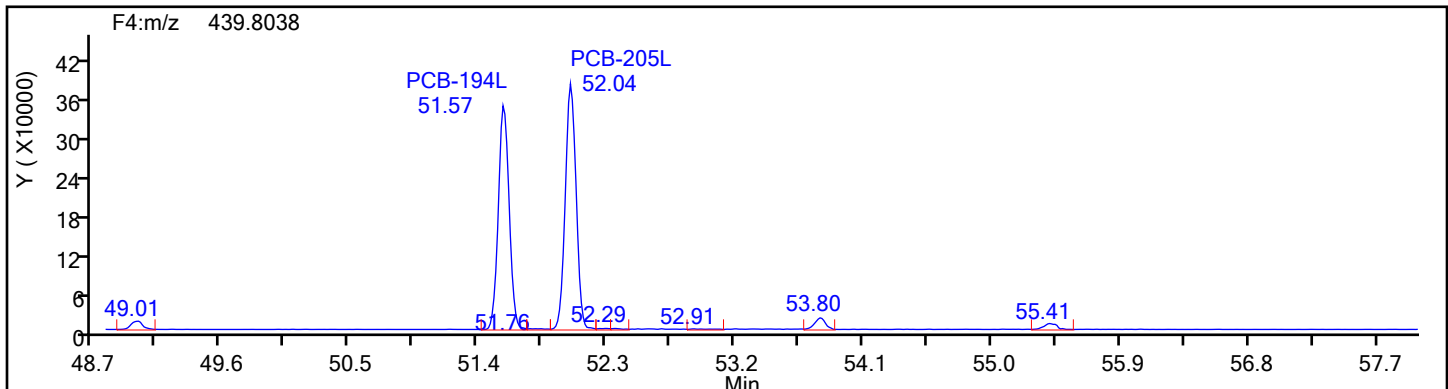


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

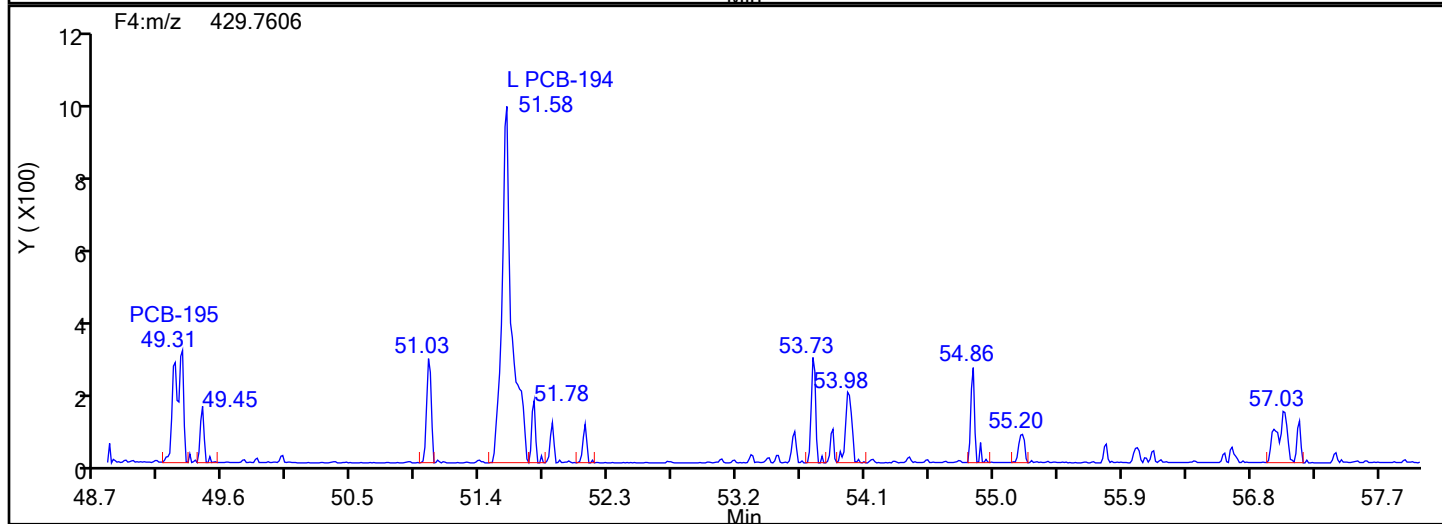
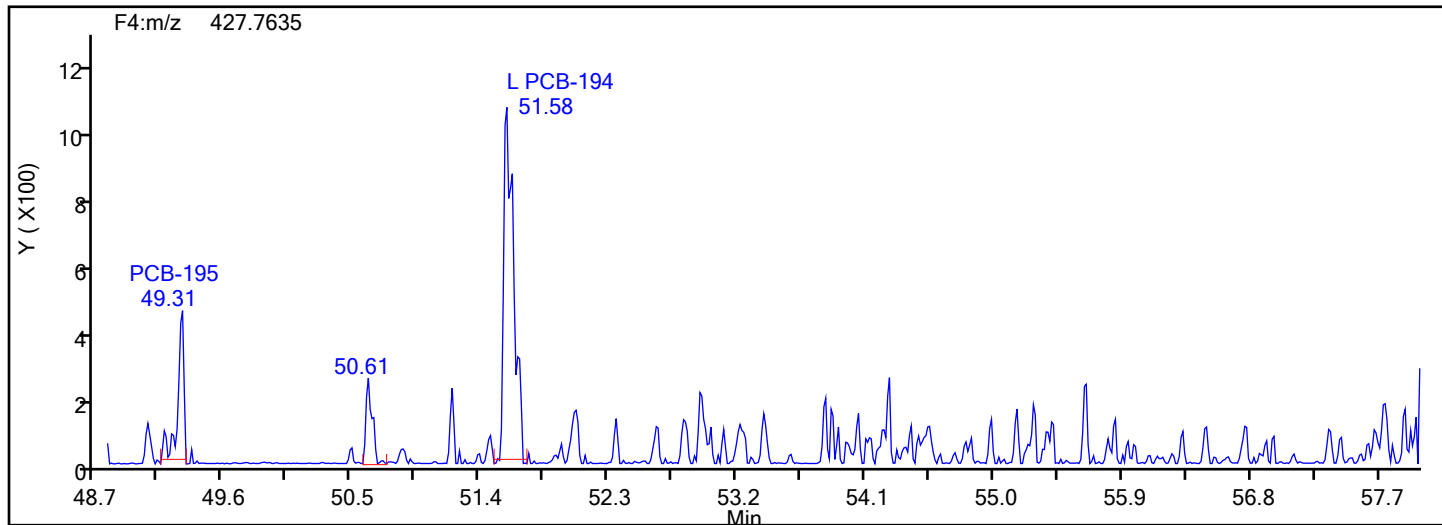


OcPCB F4 Standards

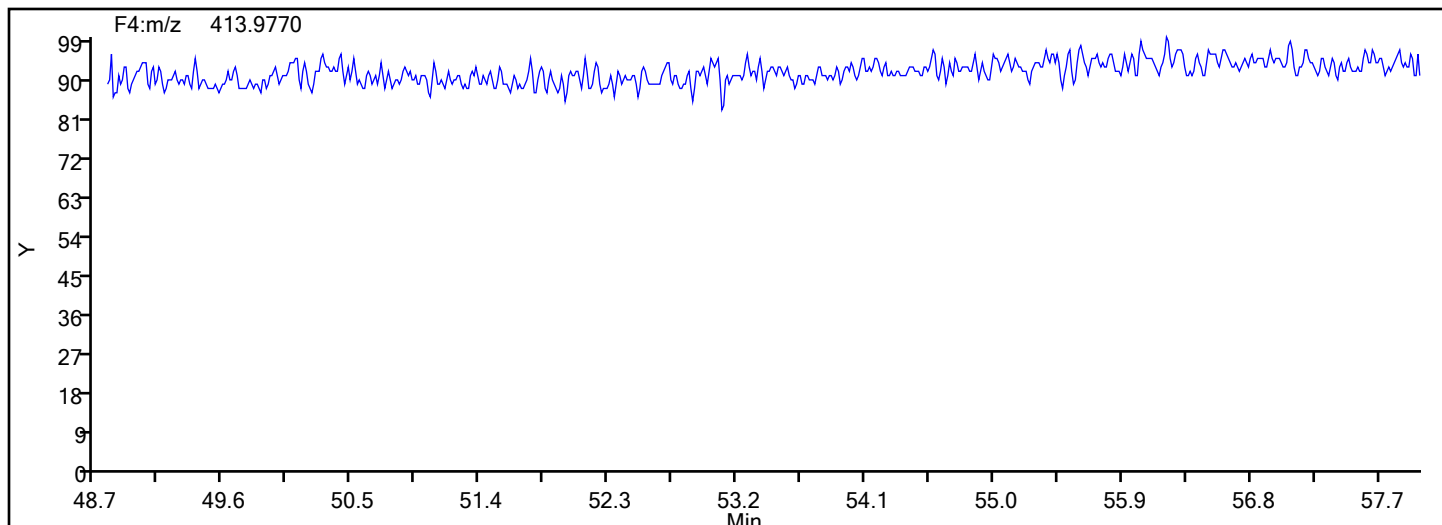


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

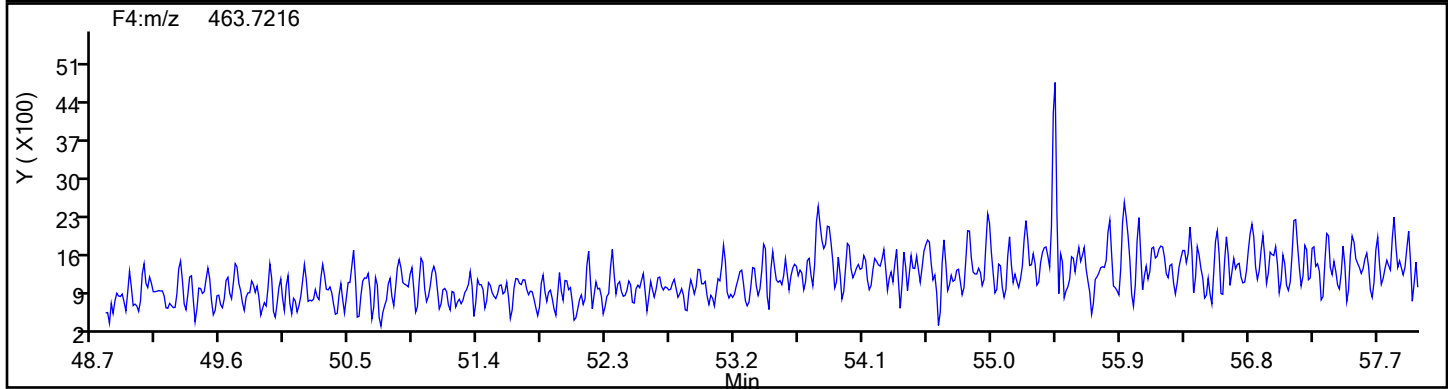
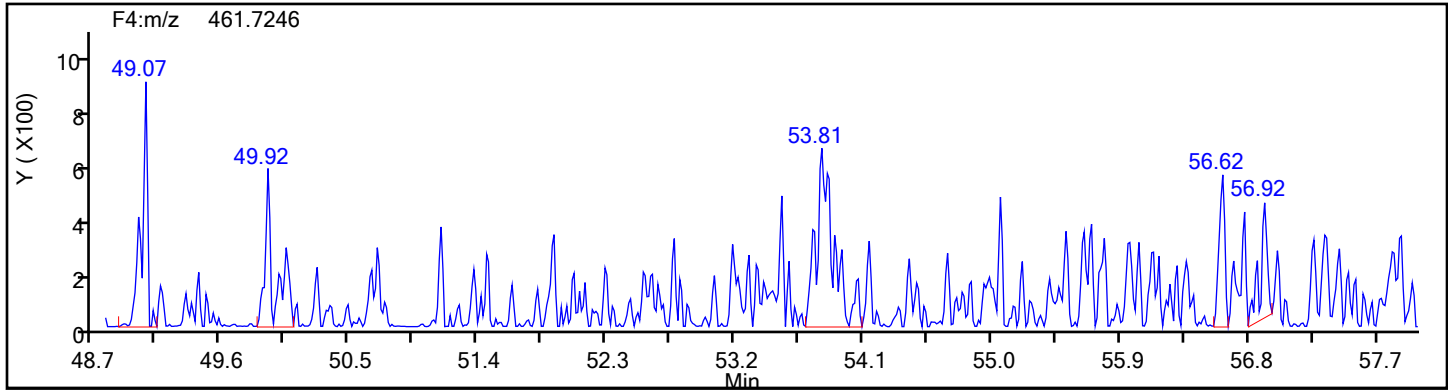


OcPCB F4 Lock Mass

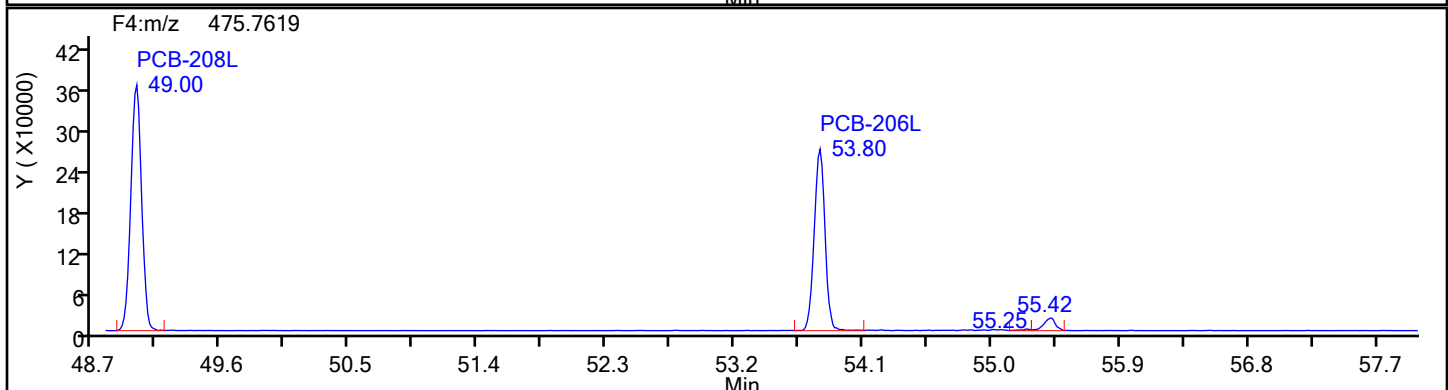
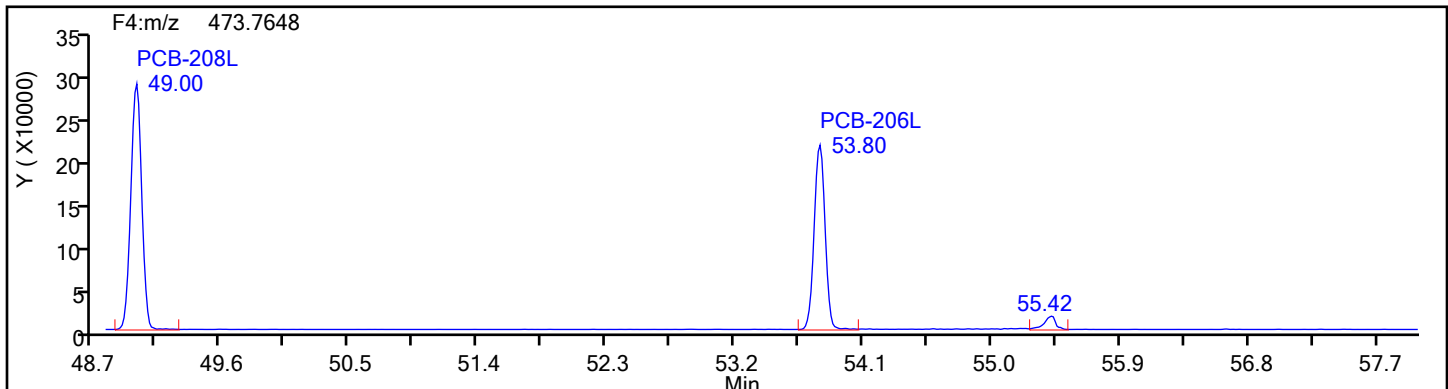


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

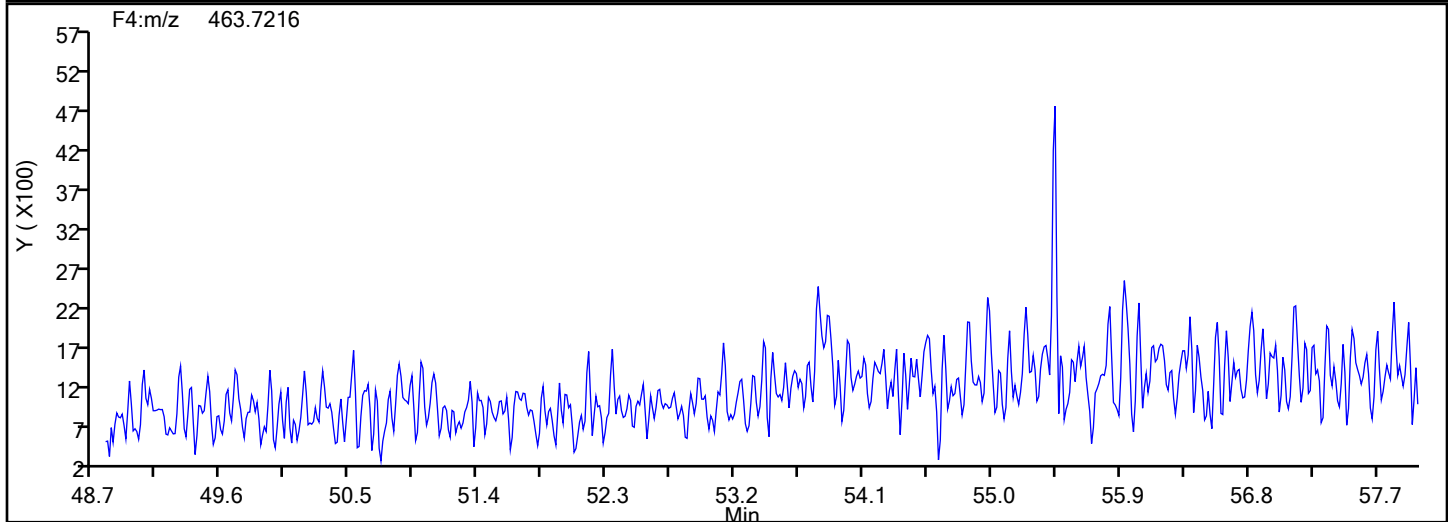
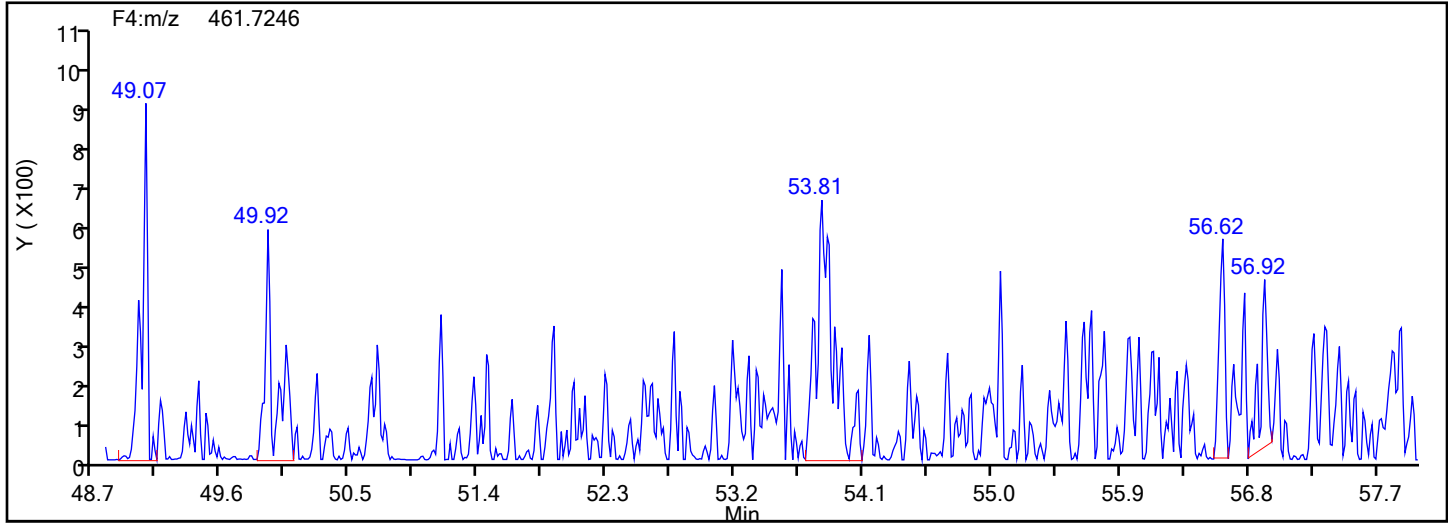


NoPCB F4 Standards

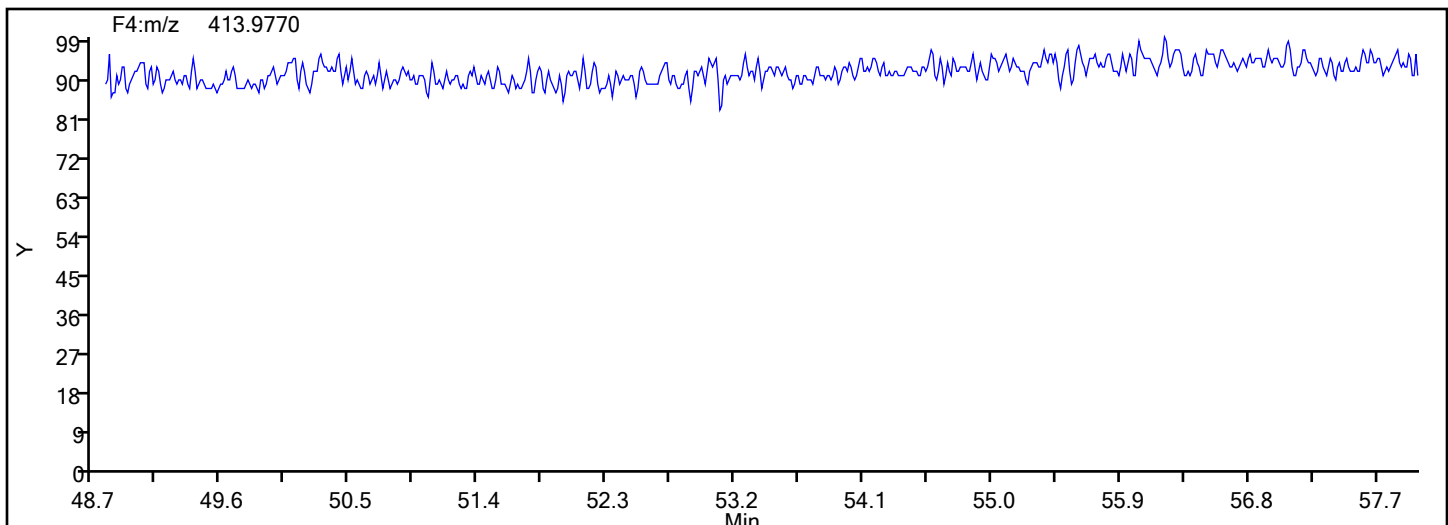


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

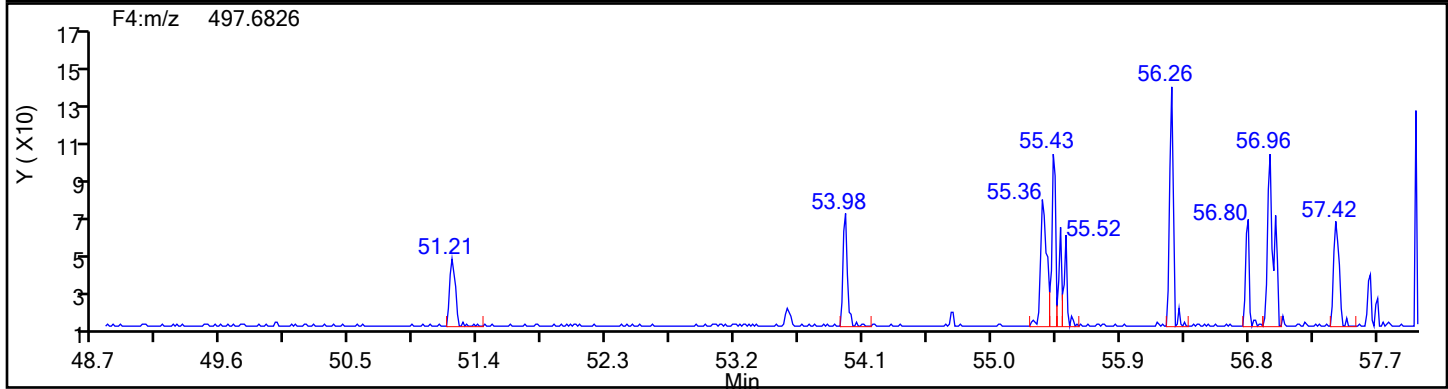
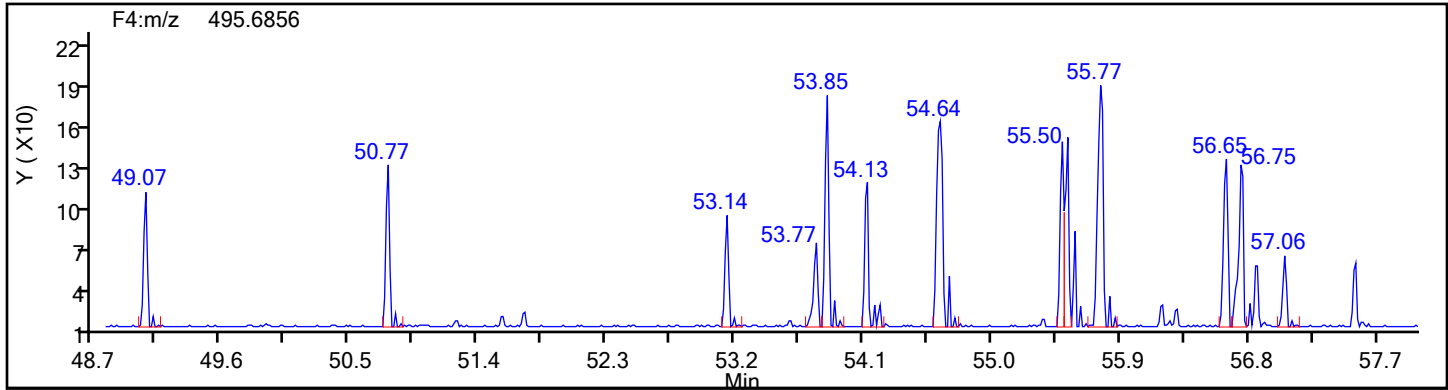


NoPCB F4 Lock Mass

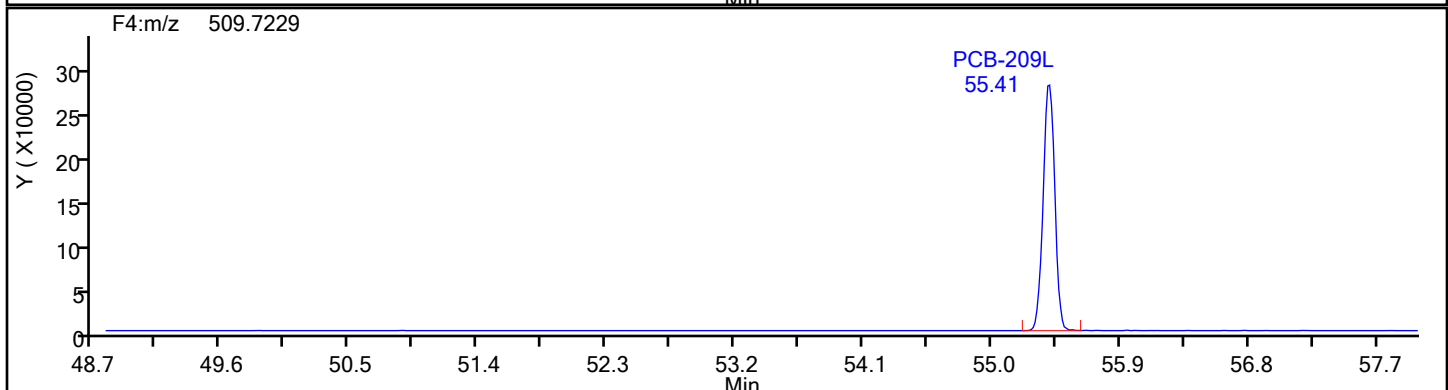
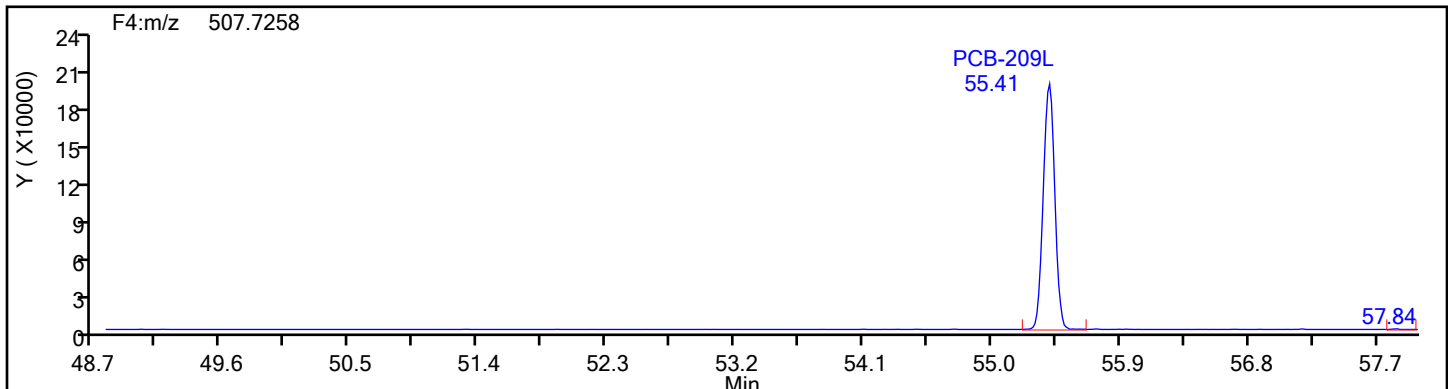


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

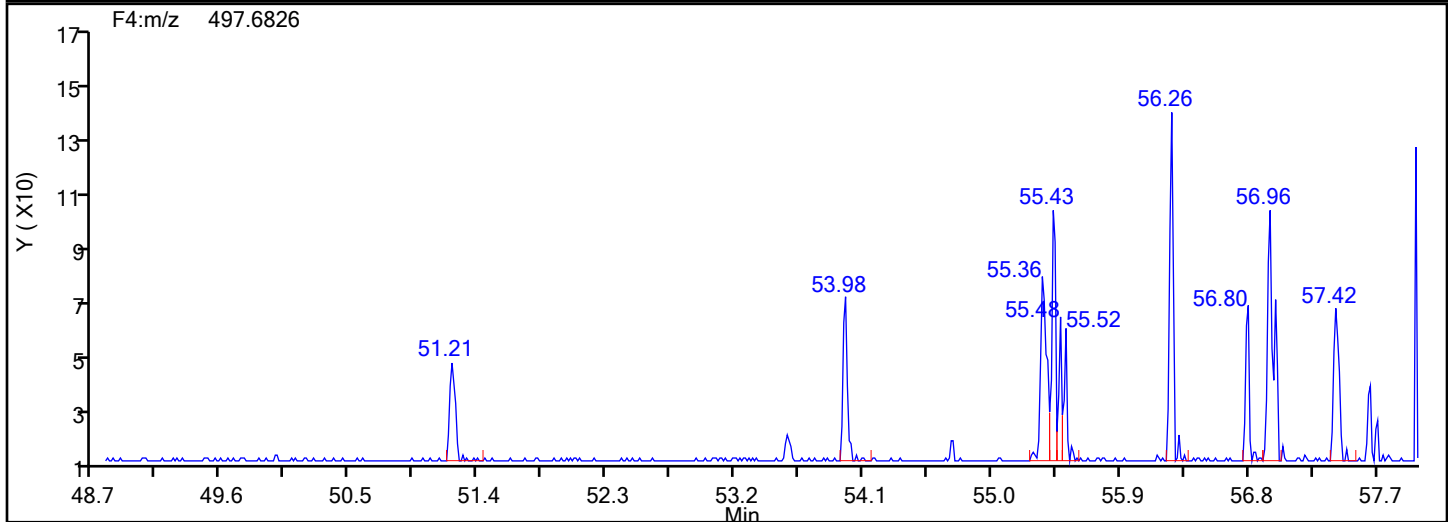
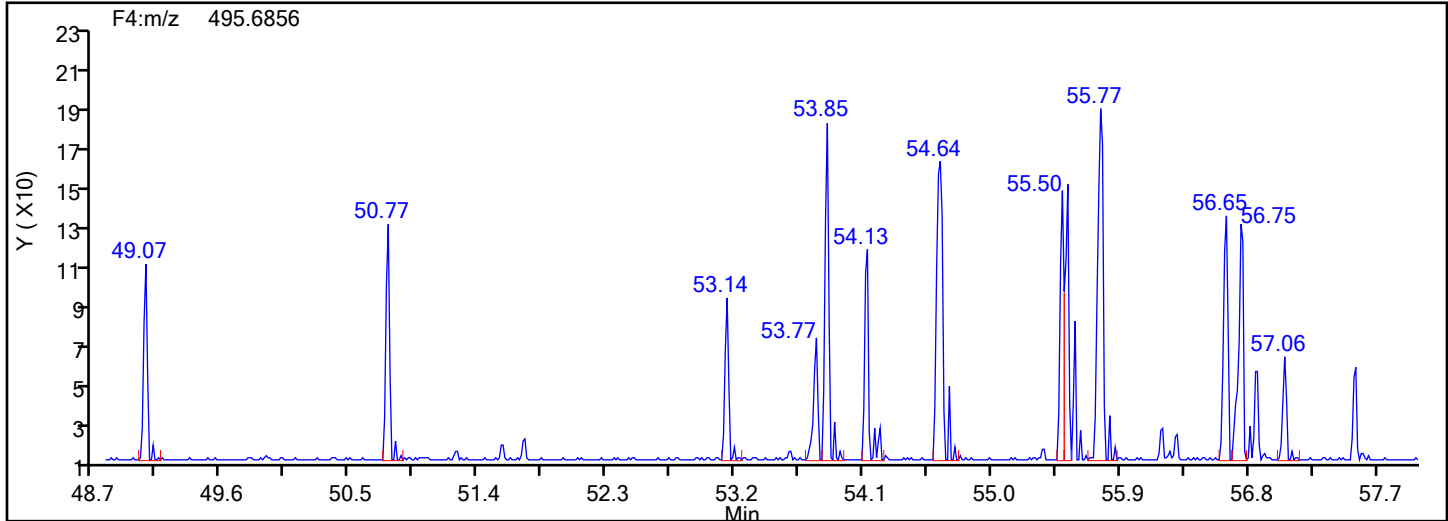


DePCB F4 Standards

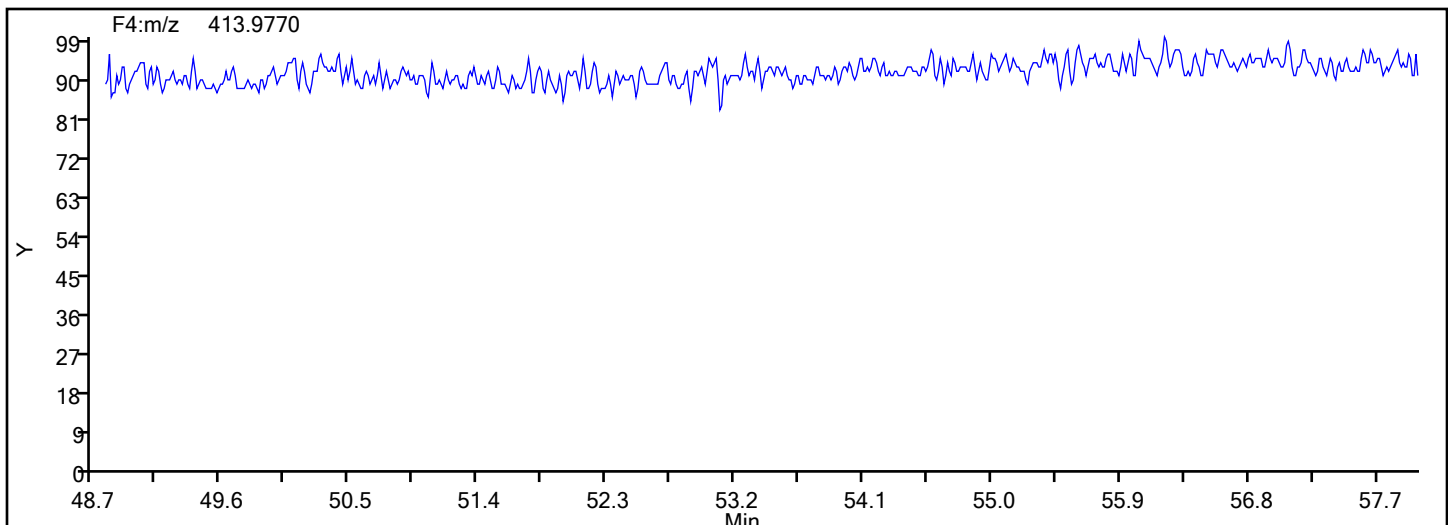


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Injection Date: 16-Jul-2024 04:59:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Worklist#: 88780 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-3-d.d
Lims ID: 140-37232-A-3-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 04:59:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:04:31 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 21:43:38

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	49.0	98.05
PCB-28L	100.0	73.2	73.23
PCB-79L	50.0	57.7	115.44
PCB-95L	50.0	57.1	114.15
PCB-111L	100.0	82.1	82.09
PCB-153L	50.0	50.7	101.44
PCB-178L	100.0	76.7	76.71

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 4 - COMBINED</u>	Lab Sample ID: <u>140-37232-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-4-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 18:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 06:00</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.363	J	0.600	0.132	0.0180
37680-65-2	PCB-18	0.262	J C S	0.600	0.285	0.00849
7012-37-5	PCB-28	0.560	J B C20	0.600	0.252	0.0125
41464-39-5	PCB-44	1.62	C B	0.900	0.390	0.00874
35693-99-3	PCB-52	0.393		0.300	0.132	0.00925
32598-10-0	PCB-66	0.236	J	0.300	0.120	0.00676
32598-13-3	PCB-77	0.0793	J q	0.300	0.126	0.00757
70362-50-4	PCB-81	ND		0.300	0.0960	0.00818
37680-73-2	PCB-101	0.188	J C90	0.900	0.390	0.00582
32598-14-4	PCB-105	0.0839	J q	0.300	0.102	0.0151
74472-37-0	PCB-114	ND		0.300	0.165	0.0157
31508-00-6	PCB-118	0.162	J	0.300	0.183	0.0147
65510-44-3	PCB-123	ND		0.300	0.171	0.0168
57465-28-8	PCB-126	ND		0.300	0.123	0.0175
38380-07-3	PCB-128	0.0576	J C B q	0.600	0.204	0.00813
35065-28-2	PCB-138	0.350	J C129	1.20	0.510	0.00845
35065-27-1	PCB-153	0.220	J C B	0.600	0.249	0.00731
38380-08-4	PCB-156	0.0312	J C q	0.600	0.255	0.00857
69782-90-7	PCB-157	0.0312	J C156 q	0.600	0.255	0.00857
52663-72-6	PCB-167	ND		0.300	0.180	0.00606
32774-16-6	PCB-169	ND		0.300	0.123	0.00605
35065-30-6	PCB-170	0.0127	J q	0.300	0.132	0.000528
35065-29-3	PCB-180	0.0376	J C q	0.600	0.204	0.000393
52663-68-0	PCB-187	0.0246	J q	0.300	0.126	0.000416
39635-31-9	PCB-189	ND		0.300	0.147	0.00227
52663-78-2	PCB-195	ND		0.300	0.159	0.000865
40186-72-9	PCB-206	ND		0.300	0.171	0.0315

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Lab Sample ID: 140-37232-4
Matrix: Air	Lab File ID: 140-37232-a-4-d.d
Analysis Method: 23	Date Collected: 06/12/2024 18:30
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 06:00
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25(mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	0.0171	J q	0.300	0.138	0.000787

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 4 - COMBINED</u>	Lab Sample ID: <u>140-37232-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-4-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/12/2024 18:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 06:00</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	52		20-145
208263-77-8	PCB-3L	63		20-145
234432-86-1	PCB-4L	61		20-145
208263-67-6	PCB-15L	73		20-145
234432-87-2	PCB-19L	68		20-145
208263-79-0	PCB-37L	70		20-145
234432-88-3	PCB-54L	88		20-145
105600-23-5	PCB-77L	78		20-145
208461-24-9	PCB-81L	77		20-145
234432-89-4	PCB-104L	89		20-145
208263-62-1	PCB-105L	94		20-145
208263-63-2	PCB-114L	95		20-145
104130-40-7	PCB-118L	87		20-145
208263-64-3	PCB-123L	89		20-145
208263-65-4	PCB-126L	91		20-145
234432-90-7	PCB-155L	84		20-145
208263-68-7	PCB-156L	92	C	20-145
235416-30-5	PCB-157L	92	C156	20-145
208263-69-8	PCB-167L	83		20-145
208263-70-1	PCB-169L	85		20-145
160901-80-4	PCB-170L	91		20-145
234432-91-8	PCB-188L	98		20-145
208263-73-4	PCB-189L	90		20-145
105600-26-8	PCB-202L	90		20-145
234446-64-1	PCB-205L	93		20-145
208263-75-6	PCB-206L	96		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	104		20-145

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Lab Sample ID: 140-37232-4
Matrix: Air	Lab File ID: 140-37232-a-4-d.d
Analysis Method: 23	Date Collected: 06/12/2024 18:30
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 06:00
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	70		20-130
235416-29-2	PCB-111L	76		20-130
232919-67-4	PCB-178L	78		20-130
STL01600	PCB-8L	99		70-130
STL01603	PCB-79L	116		70-130
STL01604	PCB-95L	111		70-130
STL01606	PCB-153L	100		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Lims ID: 140-37232-A-4-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 06:00:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:01:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 22:06:41

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					5.408	5.408	0.0411	0.0411		
D PCB-1L	11:36	6058054	3.13	1.6108	52.3	52.3	0.3978	0.3978	52.30	
D PCB-3L	13:45	7216291	3.18	1.5891	63.2	63.2	0.4032	0.4032	63.15	
PCB-1	11:37	140975	3.15	1.2191	1.909	1.909	0.0399	0.0399		
PCB-2	13:35	67434	3.28	1.1805	0.8606	0.8606	0.0420	0.0420		
PCB-3	13:46	232438	3.00	1.2206	2.639	2.639	0.0415	0.0415		
S Total Dichlorobiphenyls					16.7	16.4	0.0692	0.0692		RQ
D PCB-4L	14:00	2820377	1.59	0.6475	60.6	60.6	0.1765	0.1765	60.57	
* PCB-9L	15:59	7190530	1.59		100.0	100.0				
\$ PCB-8L	16:52	2528821	1.61	1.2066	49.3	49.3	0.1722	0.1722	98.63	a
D PCB-15L	20:03	5679444	1.64	1.0789	73.2	73.2	0.1060	0.1060	73.21	a
PCB-4	14:01	28552	1.56	1.2818	0.9016	0.7898	0.0801	0.0801		RQM
PCB-10	14:10	5226	1.56	1.3149	0.1147	0.0935	0.0724	0.0724		RQMa
PCB-9	16:00	11260	1.56	1.4224	0.2174	0.1863	0.0669	0.0669		RQa
PCB-7	16:10	25358	1.63	1.4134	0.4221	0.4221	0.0674	0.0674		a
PCB-6	16:26	22380	1.58	1.5421	0.3415	0.3415	0.0617	0.0617		a
PCB-5	16:43						0.0711	0.0711		
PCB-8	16:53	81733	1.68	1.5889	1.210	1.210	0.0599	0.0599		a
PCB-14	18:26						0.0679	0.0679		
PCB-11	19:28	678181	1.56	1.2951	12.3	12.3	0.0735	0.0735		M
PCB-12	19:42	25289	1.56	1.3358	0.4956	0.4455	0.0713	0.0713		RQMa
PCB-13 (C12)	19:42	25289	1.56	1.3358	0.4956	0.4455	0.0713	0.0713		RQMa
PCB-15	20:05	43103	1.56	1.2903	0.6501	0.5882	0.0688	0.0688		RQM
S Total Trichlorobiphenyls					10.6	10.2	0.0398	0.0398		RQ
D PCB-19L	17:10	1965342	1.08	0.6285	67.6	67.6	0.5271	0.5271	67.60	
* PCB-32L	20:29	4625298	1.06		100.0	100.0				
* PCB-31L	22:39	12475549	1.05		100.0	100.0				
\$ PCB-28L	22:56	9107760	1.05	1.0494	69.6	69.6	0.1213	0.1213	69.57	
D PCB-37L	26:53	7691646	1.07	0.8749	70.5	70.5	0.1455	0.1455	70.47	
PCB-19	17:12	3408	0.99	1.2809	0.1354	0.1354	0.0390	0.0390		
PCB-18	19:11	30340	0.99	1.7652	0.8745	0.8745	0.0283	0.0283		M
PCB-30 (C18)	19:11	30340	0.99	1.7652	0.8745	0.8745	0.0283	0.0283		M
PCB-17	19:33	16150	1.04	1.2430	0.7734	0.6611	0.0402	0.0402		RQa
PCB-27	19:45	1369	1.04	1.8327	0.0558	0.0380	0.0273	0.0273		RQMa

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:45						0.0298	0.0298		RQU
PCB-16	20:02	15873	0.88	1.1286	0.7156	0.7156	0.0443	0.0443		Ma
PCB-32	20:30	19618	1.03	1.8324	0.5447	0.5447	0.0273	0.0273		Ma
PCB-34	21:36						0.0434	0.0434		
PCB-23	21:45						0.0453	0.0453		
PCB-26	22:08	31704	1.04	1.1255	0.4032	0.3662	0.0435	0.0435		RQ
PCB-29 (C26)	22:08	31704	1.04	1.1255	0.4032	0.3662	0.0435	0.0435		RQ
PCB-25	22:23	16794	1.04	1.2728	0.2135	0.1715	0.0385	0.0385		RQa
PCB-31	22:40	157751	1.02	1.1532	1.778	1.778	0.0424	0.0424		a
PCB-20	22:57	168257	0.96	1.1718	1.867	1.867	0.0418	0.0418		
PCB-28 (C20)	22:57	168257	0.96	1.1718	1.867	1.867	0.0418	0.0418		
PCB-21	23:13	116454	1.04	1.0746	1.554	1.409	0.0455	0.0455		RQa
PCB-33 (C21)	23:13	116454	1.04	1.0746	1.554	1.409	0.0455	0.0455		RQa
PCB-22	23:35	75061	0.93	1.1932	0.8178	0.8178	0.0410	0.0410		
PCB-36	25:05						0.0442	0.0442		
PCB-39	25:27						0.0423	0.0423		
PCB-38	26:01						0.0451	0.0451		
PCB-35	26:30	25067	1.15	1.1297	0.2885	0.2885	0.0433	0.0433		
PCB-37	26:56	48797	1.06	1.1435	0.5548	0.5548	0.0428	0.0428		
S Total Tetrachlorobiphenyls					15.8	15.3	0.0259	0.0259		RQ
D PCB-54L	20:20	2261207	0.81	0.5562	87.9	87.9	0.0834	0.0834	87.89	
* PCB-52L	24:44	6018659	0.81		100.0	100.0				
\$ PCB-79L	32:36	3476307	0.81	1.0018	58.0	58.0	0.4072	0.4072	116	
D PCB-81L	33:36	5771744	0.82	1.2470	76.9	76.9	0.2759	0.2759	76.91	
D PCB-77L	34:10	6189828	0.82	1.3212	77.8	77.8	0.2604	0.2604	77.84	
PCB-54	20:21	872	0.77	1.2733	0.0407	0.0303	0.005547	0.005547		RQa
PCB-50	22:24	11218	0.77	0.8578	0.2365	0.2187	0.0331	0.0331		RQa
PCB-53 (C50)	22:24	11218	0.77	0.8578	0.2365	0.2187	0.0331	0.0331		RQa
PCB-45	23:08	89592	0.73	0.8264	1.813	1.813	0.0343	0.0343		a
PCB-51 (C45)	23:08	89592	0.73	0.8264	1.813	1.813	0.0343	0.0343		a
PCB-46	23:22	4231	0.77	0.7101	0.1341	0.0996	0.0399	0.0399		RQa
PCB-52	24:45	72106	0.78	0.9194	1.311	1.311	0.0308	0.0308		a
PCB-43	24:52						0.0274	0.0274		
PCB-73 (C43)	24:52						0.0274	0.0274		
PCB-49	25:14	44900	0.66	1.0685	0.7026	0.7026	0.0265	0.0265		a
PCB-69 (C49)	25:14	44900	0.66	1.0685	0.7026	0.7026	0.0265	0.0265		a
PCB-48	25:31	13808	0.77	0.8399	0.3558	0.2749	0.0338	0.0338		RQMa
PCB-44	25:46	313352	0.80	0.9731	5.384	5.384	0.0291	0.0291		Ma
PCB-47 (C44)	25:46	313352	0.80	0.9731	5.384	5.384	0.0291	0.0291		Ma
PCB-65 (C44)	25:46	313352	0.80	0.9731	5.384	5.384	0.0291	0.0291		Ma
PCB-59	26:03	11580	0.77	1.1853	0.2053	0.1634	0.0239	0.0239		RQM
PCB-62 (C59)	26:03	11580	0.77	1.1853	0.2053	0.1634	0.0239	0.0239		RQM
PCB-75 (C59)	26:03	11580	0.77	1.1853	0.2053	0.1634	0.0239	0.0239		RQM
PCB-42	26:17	11613	0.77	0.8097	0.3696	0.2398	0.0350	0.0350		RQMa
PCB-40	26:46	33563	0.77	0.8863	0.7438	0.6331	0.0320	0.0320		RQM
PCB-41 (C40)	26:46	33563	0.77	0.8863	0.7438	0.6331	0.0320	0.0320		RQM
PCB-71 (C40)	26:46	33563	0.77	0.8863	0.7438	0.6331	0.0320	0.0320		RQM
PCB-64	26:59	40146	0.74	1.1776	0.5700	0.5700	0.0241	0.0241		Ma
PCB-72	27:46						0.0259	0.0259		
PCB-68	28:04	53858	0.78	1.2533	0.7185	0.7185	0.0226	0.0226		
PCB-57	28:29						0.0262	0.0262		
PCB-58	28:44						0.0214	0.0214		
PCB-67	28:53						0.0199	0.0199		
PCB-63	29:09						0.0252	0.0252		
PCB-61	29:29	103240	0.80	1.2612	1.369	1.369	0.0225	0.0225		
PCB-70 (C61)	29:29	103240	0.80	1.2612	1.369	1.369	0.0225	0.0225		
PCB-74 (C61)	29:29	103240	0.80	1.2612	1.369	1.369	0.0225	0.0225		
PCB-76 (C61)	29:29	103240	0.80	1.2612	1.369	1.369	0.0225	0.0225		
PCB-66	29:51	59287	0.74	1.2583	0.7878	0.7878	0.0225	0.0225		M
PCB-55	29:59						0.0214	0.0214		
PCB-56	30:30	30850	0.68	1.2334	0.4182	0.4182	0.0230	0.0230		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:43	16848	0.75	1.1230	0.2508	0.2508	0.0253	0.0253		
PCB-80	31:06	3913	0.77	1.3243	0.0724	0.0494	0.0214	0.0214		RQ
PCB-79	32:37	3952	0.79	1.4368	0.0460	0.0460	0.0197	0.0197		
PCB-78	33:11						0.0244	0.0244		
PCB-81	33:38						0.0273	0.0273		
PCB-77	34:10	17724	0.77	1.0836	0.2924	0.2643	0.0252	0.0252		RQM
S Total Pentachlorobiphenyls					4.311	3.909	0.0307	0.0307		RQ
D PCB-104L	25:39	4016543	1.56	1.2161	89.2	89.2	0.0614	0.0614	89.18	
\$ PCB-95L	28:37	1614686	1.60	0.7218	55.7	55.7	0.0889	0.0889	111	
* PCB-101L	31:31	3703772	1.59		100.0	100.0				
\$ PCB-111L	34:10	3853412	1.60	1.3699	75.9	75.9	0.0545	0.0545	75.95	
D PCB-123L	36:09	5656535	1.60	0.9731	88.9	88.9	0.8863	0.8863	88.87	
D PCB-118L	36:28	5763981	1.61	1.0102	87.2	87.2	0.8538	0.8538	87.24	
D PCB-114L	36:59	6200731	1.59	0.9949	95.3	95.3	0.8669	0.8669	95.29	
D PCB-105L	37:40	5823495	1.58	0.9514	93.6	93.6	0.9065	0.9065	93.58	
* PCB-127L	39:06	6540498	1.57		100.0	100.0				
D PCB-126L	40:44	5613897	1.60	0.9439	90.9	90.9	0.9138	0.9138	90.94	
PCB-104	25:40						0.0184	0.0184		
PCB-96	26:05	895	1.55	1.0940	0.0409	0.0204	0.0169	0.0169		RQ
PCB-103	27:57						0.0212	0.0212		
PCB-94	28:11						0.0242	0.0242		
PCB-95	28:38	13157	1.55	0.8033	0.4547	0.4078	0.0230	0.0230		RQ
PCB-93	28:50						0.0220	0.0220		
PCB-100 (C93)	28:50						0.0220	0.0220		
PCB-98	29:01	1968	1.53	0.8262	0.0593	0.0593	0.0224	0.0224		
PCB-102 (C98)	29:01	1968	1.53	0.8262	0.0593	0.0593	0.0224	0.0224		
PCB-88	29:29						0.0231	0.0231		
PCB-91 (C88)	29:29						0.0231	0.0231		
PCB-84	29:44	5144	1.55	0.7299	0.2124	0.1755	0.0254	0.0254		RQM
PCB-89	30:11						0.0237	0.0237		
PCB-121	30:33	691	1.55	1.2964	0.0361	0.0133	0.0143	0.0143		RQM
PCB-92	30:58	3954	1.51	0.8546	0.1152	0.1152	0.0217	0.0217		M
PCB-90	31:33	24074	1.67	0.9550	0.6276	0.6276	0.0194	0.0194		M
PCB-101 (C90)	31:33	24074	1.67	0.9550	0.6276	0.6276	0.0194	0.0194		M
PCB-113 (C90)	31:33	24074	1.67	0.9550	0.6276	0.6276	0.0194	0.0194		M
PCB-83	32:06	5087	1.55	0.8385	0.3159	0.1510	0.0221	0.0221		RQM
PCB-99 (C83)	32:06	5087	1.55	0.8385	0.3159	0.1510	0.0221	0.0221		RQM
PCB-112	32:14						0.0131	0.0131		
PCB-86	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-87 (C86)	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-97 (C86)	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-109 (C86)	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-119 (C86)	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-125 (C86)	32:38	27958	1.40	1.0473	0.6647	0.6647	0.0177	0.0177		M
PCB-85	33:21	4859	1.75	1.0408	0.1162	0.1162	0.0178	0.0178		
PCB-116 (C85)	33:21	4859	1.75	1.0408	0.1162	0.1162	0.0178	0.0178		
PCB-117 (C85)	33:21	4859	1.75	1.0408	0.1162	0.1162	0.0178	0.0178		
PCB-110	33:31	31067	1.51	1.1919	0.6490	0.6490	0.0155	0.0155		
PCB-115 (C110)	33:31	31067	1.51	1.1919	0.6490	0.6490	0.0155	0.0155		
PCB-82	33:50	1507	1.55	0.8303	0.1117	0.0452	0.0223	0.0223		RQ
PCB-111	34:12						0.0153	0.0153		
PCB-120	34:40						0.0125	0.0125		
PCB-108	35:49						0.0525	0.0525		
PCB-124 (C108)	35:49						0.0525	0.0525		
PCB-107	36:04						0.0494	0.0494		
PCB-123	36:11						0.0561	0.0561		
PCB-106	36:18						0.0552	0.0552		
PCB-118	36:29	37608	1.71	1.2055	0.5412	0.5412	0.0489	0.0489		
PCB-122	36:52						0.0626	0.0626		
PCB-114	37:02						0.0522	0.0522		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41	19357	1.55	1.1879	0.3127	0.2798	0.0504	0.0504		RQ
PCB-127	39:09	2836	1.55	1.1394	0.0533	0.0428	0.0525	0.0525		RQ
PCB-126	40:47						0.0584	0.0584		
S Total Hexachlorobiphenyls					3.965	3.728	0.0212	0.0212		RQ
D PCB-155L	31:16	3361876	1.29	1.0851	83.6	83.6	0.0436	0.0436	83.65	
\$ PCB-153L	38:19	2259975	1.33	0.9169	50.0	50.0	0.8028	0.8028	100	
* PCB-138L	39:35	4563348	1.27		100.0	100.0				
D PCB-167L	42:34	4744639	1.30	1.2572	82.7	82.7	0.5042	0.5042	82.70	
D PCB-156L	43:44	10162612	1.28	1.2106	184.0	184.0	0.5236	0.5236	91.98	
D PCB-157L (C156L)	43:44	10162612	1.28	1.2106	184.0	184.0	0.5236	0.5236	91.98	
D PCB-169L	46:58	4799851	1.30	1.2439	84.6	84.6	0.5096	0.5096	84.56	
PCB-155	31:17						0.002979	0.002979		
PCB-152	31:31						0.002843	0.002843		
PCB-150	31:40						0.002777	0.002777		
PCB-136	32:03	1799	1.16	1.0116	0.0529	0.0529	0.002781	0.002781		M
PCB-145	32:20						0.002905	0.002905		
PCB-148	33:50						0.003700	0.003700		
PCB-135	34:25	3380	1.24	0.7256	0.1531	0.1386	0.003877	0.003877		RQM
PCB-151 (C135)	34:25	3380	1.24	0.7256	0.1531	0.1386	0.003877	0.003877		RQM
PCB-154	34:41						0.003461	0.003461		
PCB-144	35:02	212	1.24	0.7852	0.0266	0.008031	0.003583	0.003583		RQMa
PCB-147	35:21	20548	1.12	0.8950	0.4660	0.4660	0.0298	0.0298		
PCB-149 (C147)	35:21	20548	1.12	0.8950	0.4660	0.4660	0.0298	0.0298		
PCB-134	35:40						0.0335	0.0335		
PCB-143 (C134)	35:40						0.0335	0.0335		
PCB-139	35:57						0.0304	0.0304		
PCB-140 (C139)	35:57						0.0304	0.0304		
PCB-131	36:10						0.0355	0.0355		
PCB-142	36:19						0.0355	0.0355		
PCB-132	36:37	8077	1.24	0.7489	0.2696	0.2189	0.0356	0.0356		RQ
PCB-133	37:07						0.0329	0.0329		
PCB-165	37:30						0.0260	0.0260		
PCB-146	37:46	4170	1.24	0.9637	0.1000	0.0878	0.0277	0.0277		RQ
PCB-161	37:53						0.0236	0.0236		
PCB-153	38:20	39555	1.28	1.0938	0.7340	0.7340	0.0244	0.0244		
PCB-168 (C153)	38:20	39555	1.28	1.0938	0.7340	0.7340	0.0244	0.0244		
PCB-141	38:35	9078	1.24	0.8755	0.2309	0.2105	0.0304	0.0304		RQM
PCB-130	39:00	1973	1.24	0.7051	0.0822	0.0568	0.0378	0.0378		RQ
PCB-137	39:11	4355	1.24	0.7767	0.1506	0.1138	0.0343	0.0343		RQ
PCB-164	39:20	2618	1.24	1.0382	0.0558	0.0512	0.0257	0.0257		RQ
PCB-129	39:38	54443	1.31	0.9464	1.168	1.168	0.0282	0.0282		
PCB-138 (C129)	39:38	54443	1.31	0.9464	1.168	1.168	0.0282	0.0282		
PCB-160 (C129)	39:38	54443	1.31	0.9464	1.168	1.168	0.0282	0.0282		
PCB-163 (C129)	39:38	54443	1.31	0.9464	1.168	1.168	0.0282	0.0282		
PCB-158	40:01	8140	1.19	1.3110	0.1260	0.1260	0.0203	0.0203		
PCB-128	40:53	9299	1.24	0.9829	0.2161	0.1920	0.0271	0.0271		RQ
PCB-166 (C128)	40:53	9299	1.24	0.9829	0.2161	0.1920	0.0271	0.0271		RQ
PCB-159	41:50						0.0192	0.0192		
PCB-162	42:08						0.0212	0.0212		
PCB-167	42:36						0.0202	0.0202		
PCB-156	43:41	5864	1.24	1.1104	0.1337	0.1039	0.0286	0.0286		RQM
PCB-157 (C156)	43:41	5864	1.24	1.1104	0.1337	0.1039	0.0286	0.0286		RQM
PCB-169	46:59						0.0202	0.0202		
S Total Heptachlorobiphenyls					0.5606	0.4157	0.001700	0.001700		RQ
D PCB-188L	36:59	4177513	1.05	1.3133	98.2	98.2	0.0402	0.0402	98.18	
\$ PCB-178L	40:01	2614284	1.07	1.0313	78.2	78.2	0.0512	0.0512	78.24	
* PCB-180L	45:06	3239867	1.08		100.0	100.0				
D PCB-170L	46:22	2476147	1.07	0.8362	91.4	91.4	0.0631	0.0631	91.40	
D PCB-189L	49:28	5406067	1.09	1.4414	90.3	90.3	0.7163	0.7163	90.27	
PCB-188	37:01						0.001061	0.001061		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:21	1164	1.05	1.4276	0.0282	0.0245	0.001070	0.001070		RQ
PCB-184	37:52						0.001118	0.001118		
PCB-176	38:14						0.001239	0.001239		
PCB-186	38:42						0.001037	0.001037		
PCB-178	40:04						0.001708	0.001708		
PCB-175	40:42						0.001604	0.001604		
PCB-187	40:58	3007	1.05	1.1018	0.1134	0.0820	0.001387	0.001387		RQ
PCB-182	41:09						0.001652	0.001652		
PCB-183	41:31	3211	1.05	0.9825	0.1234	0.0982	0.001555	0.001555		RQ
PCB-185 (C183)	41:31	3211	1.05	0.9825	0.1234	0.0982	0.001555	0.001555		RQ
PCB-174	41:51	356	1.05	0.9642	0.0349	0.0111	0.001585	0.001585		RQ
PCB-177	42:15	747	1.05	0.9773	0.0359	0.0230	0.001563	0.001563		RQ
PCB-181	42:39						0.001607	0.001607		
PCB-171	42:49	286	1.05	0.9336	0.0143	0.009208	0.001636	0.001636		RQ
PCB-173 (C171)	42:49	286	1.05	0.9336	0.0143	0.009208	0.001636	0.001636		RQ
PCB-172	44:30						0.001794	0.001794		
PCB-192	44:45						0.001135	0.001135		
PCB-180	45:08	4870	1.05	1.1676	0.1415	0.1254	0.001309	0.001309		RQM
PCB-193 (C180)	45:08	4870	1.05	1.1676	0.1415	0.1254	0.001309	0.001309		RQM
PCB-191	45:30						0.001185	0.001185		
PCB-170	46:22	1243	1.05	1.1865	0.0691	0.0423	0.001761	0.001761		RQMa
PCB-190	46:55						0.001147	0.001147		
PCB-189	49:30						0.007558	0.007558		
S Total Octachlorobiphenyls					0.0596	0.0555	0.002316	0.002316		RQ
D PCB-202L	42:20	2850480	0.92	0.9818	89.6	89.6	0.0269	0.0269	89.61	
* PCB-194L	51:34	4154689	0.93		100.0	100.0				
D PCB-205L	52:02	4565584	0.90	1.1786	93.2	93.2	0.0583	0.0583	93.24	
PCB-202	42:23						0.002084	0.002084		
PCB-201	43:17						0.002213	0.002213		
PCB-204	43:57						0.002059	0.002059		
PCB-197	44:11						0.001884	0.001884		
PCB-200	44:19						0.002143	0.002143		
PCB-198	47:06	929	0.77	0.8698	0.0375	0.0375	0.002482	0.002482		M
PCB-199 (C198)	47:06	929	0.77	0.8698	0.0375	0.0375	0.002482	0.002482		M
PCB-196	47:44						0.002765	0.002765		
PCB-203	47:56	477	0.89	0.9292	0.0221	0.0180	0.002323	0.002323		RQ
PCB-195	49:16						0.002884	0.002884		
PCB-194	51:36						0.002448	0.002448		
PCB-205	52:04						0.002191	0.002191		
S Total Nonachlorobiphenyls							0.1049	0.1049		
D PCB-208L	48:59	3711530	0.79	0.9576	93.3	93.3	0.1816	0.1816	93.29	
D PCB-206L	53:47	2762550	0.82	0.6947	95.7	95.7	0.2503	0.2503	95.72	
PCB-208	49:02						0.0929	0.0929		
PCB-207	49:57						0.0876	0.0876		
PCB-206	53:49						0.1049	0.1049		
D PCB-209L	55:24	2871456	0.70	0.6669	103.6	103.6	0.0488	0.0488	104	
DCB Decachlorobiphenyl	55:25	1806	0.69	1.1004	0.0726	0.0572	0.002623	0.002623		RQ
S Polychlorinated biphenyls, Total					52.0	0.0572	0.0331	0.0331		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Lims ID: 140-37232-A-4-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 06:00:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:01:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 22:06:41

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:39	-2	0.726	4591361	1818834	1501	3752	1212		
202.0766	11:36	11:39	-2	0.726	1466693	577055	3073	7682	188	3.13(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:48	-2	0.860	5488613	1753735	1501	3752	1168		
202.0766	13:45	13:48	-2	0.860	1727678	545053	3073	7682	177	3.18(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	-1	1.001	106977	42769	270	675	158		
190.0363	11:37	11:37	-1	1.001	33998	12869	196	490	66	3.15(2.66-3.60)	
PCB-2											
188.0393	13:35	13:37	-1	0.989	51691	13572	270	675	50		
190.0363	13:35	13:37	-1	0.989	15743	4094	196	490	21	3.28(2.66-3.60)	
PCB-3											
188.0393	13:46	13:46	-2	1.001	174303	56137	270	675	208		
190.0363	13:46	13:46	-2	1.001	58135	17543	196	490	90	3.00(2.66-3.60)	
PCB-4L											
234.0406	14:00	14:03	-2	0.876	1729881	561386	608	1520	923		
236.0376	14:00	14:03	-2	0.876	1090496	349432	208	520	1680	1.59(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		4418237	1097580	608	1520	1805		
236.0376	15:59	15:59	0		2772293	686928	208	520	3303	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	2	1.205	1560600	282548	608	1520	465		a
236.0376	16:52	16:52	2	1.205	968221	172309	208	520	828	1.61(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:03	20:05	10	1.255	3528068	654343	608	1520	1076		a
236.0376	20:03	20:05	10	1.255	2151376	398713	208	520	1917	1.64(1.33-1.79)	
PCB-4											RQM
222.0003	14:01	14:01	-1	1.002	17399	4928	141	352	35		
223.9974	14:01	14:01	-2	1.001	15195	3927	233	582	17	1.15(1.33-1.79)	M
Empc Correction					11153	3158	233	582	14		
PCB-10											RQM
222.0003	14:10	14:10	-3	1.012	3185	1045	141	352	7		a
223.9974	14:11	14:10	-2	1.013	3227	991	233	582	4	0.99(1.33-1.79)	M
Empc Correction					2041	669	233	582	3		
PCB-9											RQ
222.0003	16:00	16:00	1	1.144	6862	1361	141	352	10		a
223.9974	15:59	16:00	-1	1.142	6280	1595	233	582	7	1.09(1.33-1.79)	
Empc Correction					4398	872	233	582	4		
PCB-7											a
222.0003	16:10	16:11	1	1.155	15734	3033	141	352	22		a
223.9974	16:10	16:11	1	1.155	9624	1764	233	582	8	1.63(1.33-1.79)	
PCB-6											a
222.0003	16:26	16:25	2	1.174	13720	3262	141	352	23		a
223.9974	16:26	16:25	2	1.174	8660	2128	233	582	9	1.58(1.33-1.79)	
PCB-5											
222.0003	16:40						141	352			
223.9974	16:40						233	582			
PCB-8											a
222.0003	16:53	16:53	3	1.207	51213	10892	141	352	77		a
223.9974	16:52	16:53	2	1.206	30520	4874	233	582	21	1.68(1.33-1.79)	
PCB-14											
222.0003	18:37						141	352			
223.9974	18:37						233	582			
PCB-11											M
222.0003	19:28	19:30	12	0.971	413286	87689	141	352	622		M
223.9974	19:28	19:30	12	0.971	264895	56344	233	582	242	1.56(1.33-1.79)	M
PCB-12											RQM
222.0003	19:42	19:46	6	0.982	15411	2213	141	352	16		M
223.9974	19:46	19:46	10	0.986	12723	1226	233	582	5	1.21(1.33-1.79)	
Empc Correction					9878	1418	233	582	6		
PCB-13 (C12)											RQM
222.0003	19:42	19:46	6	0.982	15411	2213	141	352	16		M
223.9974	19:46	19:46	10	0.986	12723	1226	233	582	5	1.21(1.33-1.79)	
Empc Correction					9878	1418	233	582	6		
PCB-15											RQM
222.0003	20:05	20:07	11	1.001	26266	4167	141	352	30		M
223.9974	20:04	20:07	10	1.001	21375	2881	233	582	12	1.23(1.33-1.79)	M
Empc Correction					16837	2671	233	582	11		
PCB-19L											
268.0016	17:10	17:07	3	0.838	1022402	218508	555	1387	394		
269.9986	17:10	17:07	3	0.838	942940	195748	1002	2505	195	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:29	20:20	9		2380355	606910	555	1387	1094		
269.9986	20:29	20:20	9		2244943	567811	1002	2505	567	1.06(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:35	4		6379215	1537258	903	2257	1702		
269.9986	22:39	22:35	4		6096334	1481251	634	1585	2336	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:57	3	1.012	4667597	1079936	903	2257	1196		
269.9986	22:56	22:57	3	1.012	4440163	1044181	634	1585	1647	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:58	1	1.187	3978113	808389	903	2257	895		
269.9986	26:53	26:58	1	1.187	3713533	758617	634	1585	1197	1.07(0.88-1.20)	
PCB-19											
255.9613	17:12	17:13	4	1.002	1694	631	39	97	16		
257.9584	17:13	17:13	5	1.002	1714	398	44	110	9	0.99(0.88-1.20)	
PCB-18											
255.9613	19:11	19:13	16	1.117	15072	2973	39	97	76		M
257.9584	19:11	19:13	16	1.117	15268	3247	44	110	74	0.99(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:11	19:13	16	1.117	15072	2973	39	97	76		M
257.9584	19:11	19:13	16	1.117	15268	3247	44	110	74	0.99(0.88-1.20)	M
PCB-17											
255.9613	19:33	19:35	9	1.139	10976	2779	39	97	71		RQa
	Empc Correction				8233	2253	39	97	58		a
257.9584	19:33	19:35	9	1.139	7917	2167	44	110	49	1.39(0.88-1.20)	
PCB-27											
255.9613	19:45	19:46	8	1.150	698	191	39	97	5		RQMa
257.9584	19:43	19:46	6	1.148	1312	332	44	110	8	0.53(0.88-1.20)	M
	Empc Correction				671	183	44	110	4		a
PCB-24											
255.9613	19:50						39	97			RQU
257.9584	19:50						44	110			
PCB-16											
255.9613	20:02	20:04	10	1.167	7438	1183	39	97	30		Ma
257.9584	20:01	20:04	9	1.165	8435	1448	44	110	33	0.88(0.88-1.20)	a
PCB-32											
255.9613	20:30	20:31	8	1.194	9966	2324	39	97	60		Ma
257.9584	20:30	20:31	8	1.194	9652	2623	44	110	60	1.03(0.88-1.20)	M
PCB-34											
255.9613	21:42						113	282			
257.9584	21:42						194	485			
PCB-23											
255.9613	21:51						113	282			
257.9584	21:51						194	485			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:08	22:04	4	1.289	16163	3625	113	282	32		
257.9584	22:07	22:04	3	1.288	18741	4145	194	485	21	0.86(0.88-1.20)	
Empc Correction					15541	3485	194	485	18		
PCB-29 (C26)											RQ
255.9613	22:08	22:04	4	1.289	16163	3625	113	282	32		
257.9584	22:07	22:04	3	1.288	18741	4145	194	485	21	0.86(0.88-1.20)	
Empc Correction					15541	3485	194	485	18		
PCB-25											RQa
255.9613	22:23	22:24	5	0.832	8562	1792	113	282	16		a
257.9584	22:21	22:24	2	0.831	12344	2116	194	485	11	0.69(0.88-1.20)	
Empc Correction					8232	1723	194	485	9		
PCB-31											a
255.9613	22:40	22:42	4	0.843	79726	18949	113	282	168		a
257.9584	22:40	22:42	4	0.843	78025	18014	194	485	93	1.02(0.88-1.20)	
PCB-20											
255.9613	22:57	22:56	2	0.854	82476	19245	113	282	170		
257.9584	22:57	22:56	2	0.854	85781	18971	194	485	98	0.96(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:56	2	0.854	82476	19245	113	282	170		
257.9584	22:57	22:56	2	0.854	85781	18971	194	485	98	0.96(0.88-1.20)	
PCB-21											RQa
255.9613	23:13	23:13	8	0.863	59369	13492	113	282	119		a
257.9584	23:12	23:13	7	0.863	69102	13869	194	485	71	0.86(0.88-1.20)	
Empc Correction					57085	12973	194	485	67		
PCB-33 (C21)											RQa
255.9613	23:13	23:13	8	0.863	59369	13492	113	282	119		a
257.9584	23:12	23:13	7	0.863	69102	13869	194	485	71	0.86(0.88-1.20)	
Empc Correction					57085	12973	194	485	67		
PCB-22											
255.9613	23:35	23:38	2	0.877	36165	8285	113	282	73		
257.9584	23:36	23:38	3	0.877	38896	7787	194	485	40	0.93(0.88-1.20)	
PCB-36											
255.9613	25:06						113	282			
257.9584	25:06						194	485			
PCB-39											
255.9613	25:28						113	282			
257.9584	25:28						194	485			
PCB-38											
255.9613	26:02						113	282			
257.9584	26:02						194	485			
PCB-35											
255.9613	26:30	26:30	1	0.986	13425	2642	113	282	23		
257.9584	26:30	26:30	0	0.985	11642	2419	194	485	12	1.15(0.88-1.20)	
PCB-37											
255.9613	26:56	26:56	1	1.001	25152	5130	113	282	45		
257.9584	26:55	26:56	1	1.001	23645	4697	194	485	24	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:20	20:13	9	0.822	1008496	233894	178	445	1314	0.81(0.65-0.89)	
303.9597	20:20	20:13	9	0.822	1252711	289964	40	100	7249		
PCB-52L											
301.9626	24:44	24:42	1		2693246	611293	909	2272	672	0.81(0.65-0.89)	
303.9597	24:44	24:42	1		3325413	768553	990	2475	776		
PCB-79L											
301.9626	32:36	32:37	0	0.970	1554948	305042	909	2272	336	0.81(0.65-0.89)	
303.9597	32:36	32:37	0	0.970	1921359	375288	990	2475	379		
PCB-81L											
301.9626	33:36	33:39	0	1.359	2596828	504102	909	2272	555	0.82(0.65-0.89)	
303.9597	33:36	33:39	0	1.359	3174916	616404	990	2475	623		
PCB-77L											
301.9626	34:10	34:14	-1	1.381	2796240	542120	909	2272	596	0.82(0.65-0.89)	
303.9597	34:10	34:14	-1	1.381	3393588	664379	990	2475	671		
PCB-54											
289.9224	20:21	20:12	9	1.000	679	231	8	20	29	1.38(0.65-0.89)	RQa a
	Empc Correction				379	109	8	20	14		
291.9194	20:22	20:12	10	1.001	493	142	7	17	20		
PCB-50											
289.9224	22:24	22:27	3	1.102	5794	1492	43	107	35	0.91(0.65-0.89)	RQa a
	Empc Correction				4880	1248	43	107	29		
291.9194	22:26	22:27	5	1.103	6338	1621	89	222	18		
PCB-53 (C50)											
289.9224	22:24	22:27	3	1.102	5794	1492	43	107	35	0.91(0.65-0.89)	RQa a
	Empc Correction				4880	1248	43	107	29		
291.9194	22:26	22:27	5	1.103	6338	1621	89	222	18		
PCB-45											
289.9224	23:08	23:10	3	1.137	37782	7547	43	107	176	0.73(0.65-0.89)	a a
291.9194	23:08	23:10	3	1.137	51810	10406	89	222	117		
PCB-51 (C45)											
289.9224	23:08	23:10	3	1.137	37782	7547	43	107	176	0.73(0.65-0.89)	a a
291.9194	23:08	23:10	3	1.137	51810	10406	89	222	117		
PCB-46											
289.9224	23:22	23:24	1	1.149	1841	607	43	107	14	0.48(0.65-0.89)	RQa a
291.9194	23:22	23:24	1	1.149	3854	964	89	222	11		
	Empc Correction				2390	788	89	222	9		
PCB-52											
289.9224	24:45	24:46	1	1.217	31535	7182	43	107	167	0.78(0.65-0.89)	a a
291.9194	24:45	24:46	1	1.217	40571	8958	89	222	101		
PCB-43											
289.9224	25:06						43	107			
291.9194	25:06						89	222			
PCB-73 (C43)											
289.9224	25:06						43	107			
291.9194	25:06						89	222			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											a
289.9224	25:14	25:15	5	1.240	17825	4114	43	107	96		a
291.9194	25:15	25:15	5	1.241	27075	5214	89	222	59	0.66(0.65-0.89)	
PCB-69 (C49)											a
289.9224	25:14	25:15	5	1.240	17825	4114	43	107	96		a
291.9194	25:15	25:15	5	1.241	27075	5214	89	222	59	0.66(0.65-0.89)	
PCB-48											RQMa
289.9224	25:31	25:31	2	1.255	6007	1457	43	107	34		a
291.9194	25:31	25:31	2	1.255	11865	2205	89	222	25	0.51(0.65-0.89)	M
Empc Correction					7801	1892	89	222	21		
PCB-44											Ma
289.9224	25:46	25:47	2	1.267	139399	28618	43	107	666		a
291.9194	25:46	25:47	2	1.267	173953	36285	89	222	408	0.80(0.65-0.89)	M
PCB-47 (C44)											Ma
289.9224	25:46	25:47	2	1.267	139399	28618	43	107	666		a
291.9194	25:46	25:47	2	1.267	173953	36285	89	222	408	0.80(0.65-0.89)	M
PCB-65 (C44)											Ma
289.9224	25:46	25:47	2	1.267	139399	28618	43	107	666		a
291.9194	25:46	25:47	2	1.267	173953	36285	89	222	408	0.80(0.65-0.89)	M
PCB-59											RQM
289.9224	26:03	26:05	0	1.281	5038	875	43	107	20		M
291.9194	26:03	26:05	0	1.281	9518	1531	89	222	17	0.53(0.65-0.89)	M
Empc Correction					6542	1136	89	222	13		
PCB-62 (C59)											RQM
289.9224	26:03	26:05	0	1.281	5038	875	43	107	20		M
291.9194	26:03	26:05	0	1.281	9518	1531	89	222	17	0.53(0.65-0.89)	M
Empc Correction					6542	1136	89	222	13		
PCB-75 (C59)											RQM
289.9224	26:03	26:05	0	1.281	5038	875	43	107	20		M
291.9194	26:03	26:05	0	1.281	9518	1531	89	222	17	0.53(0.65-0.89)	M
Empc Correction					6542	1136	89	222	13		
PCB-42											RQMa
289.9224	26:17	26:17	1	1.292	5052	1283	43	107	30		M
291.9194	26:16	26:17	1	1.291	12847	2140	89	222	24	0.39(0.65-0.89)	
Empc Correction					6561	1666	89	222	19		
PCB-40											RQM
289.9224	26:46	26:47	1	1.316	14601	2949	43	107	69		M
291.9194	26:46	26:47	1	1.316	24827	4343	89	222	49	0.59(0.65-0.89)	M
Empc Correction					18962	3829	89	222	43		
PCB-41 (C40)											RQM
289.9224	26:46	26:47	1	1.316	14601	2949	43	107	69		M
291.9194	26:46	26:47	1	1.316	24827	4343	89	222	49	0.59(0.65-0.89)	M
Empc Correction					18962	3829	89	222	43		
PCB-71 (C40)											RQM
289.9224	26:46	26:47	1	1.316	14601	2949	43	107	69		M
291.9194	26:46	26:47	1	1.316	24827	4343	89	222	49	0.59(0.65-0.89)	M
Empc Correction					18962	3829	89	222	43		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-64											Ma
289.9224	26:59	27:00	1	1.327	17041	3323	43	107	77		M
291.9194	26:59	27:00	1	1.327	23105	5075	89	222	57	0.74(0.65-0.89)	
PCB-72											
289.9224	27:47						43	107			
291.9194	27:47						89	222			
PCB-68											
289.9224	28:04	28:04	0	0.835	23621	5234	43	107	122		
291.9194	28:03	28:04	-1	0.835	30237	5566	89	222	63	0.78(0.65-0.89)	
PCB-57											
289.9224	28:29						43	107			
291.9194	28:29						89	222			
PCB-58											
289.9224	28:44						43	107			
291.9194	28:44						89	222			
PCB-67											
289.9224	28:54						43	107			
291.9194	28:54						89	222			
PCB-63											
289.9224	29:09						43	107			
291.9194	29:09						89	222			
PCB-61											
289.9224	29:29	29:30	-1	0.878	45938	5972	43	107	139		
291.9194	29:29	29:30	-1	0.878	57302	8542	89	222	96	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:29	29:30	-1	0.878	45938	5972	43	107	139		
291.9194	29:29	29:30	-1	0.878	57302	8542	89	222	96	0.80(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:29	29:30	-1	0.878	45938	5972	43	107	139		
291.9194	29:29	29:30	-1	0.878	57302	8542	89	222	96	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:29	29:30	-1	0.878	45938	5972	43	107	139		
291.9194	29:29	29:30	-1	0.878	57302	8542	89	222	96	0.80(0.65-0.89)	
PCB-66											M
289.9224	29:51	29:50	1	0.888	25150	4718	43	107	110		
291.9194	29:50	29:50	1	0.888	34137	6750	89	222	76	0.74(0.65-0.89)	M
PCB-55											
289.9224	29:59						43	107			
291.9194	29:59						89	222			
PCB-56											
289.9224	30:30	30:30	0	0.908	12497	3532	43	107	82		
291.9194	30:29	30:30	-1	0.907	18353	3713	89	222	42	0.68(0.65-0.89)	
PCB-60											
289.9224	30:43	30:43	1	0.914	7234	1607	43	107	37		
291.9194	30:41	30:43	-1	0.913	9614	1891	89	222	21	0.75(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-80											RQ
289.9224	31:06	31:06	0	0.925	3522	794	43	107	18		
	Empc Correction				1702	460	43	107	11		
291.9194	31:04	31:06	-2	0.925	2211	598	89	222	7	1.59(0.65-0.89)	
PCB-79											
289.9224	32:37	32:38	-1	0.971	1748	467	43	107	11		
291.9194	32:38	32:38	0	0.971	2204	541	89	222	6	0.79(0.65-0.89)	
PCB-78											
289.9224	33:11						43	107			
291.9194	33:11						89	222			
PCB-81											
289.9224	33:38						43	107			
291.9194	33:38						89	222			
PCB-77											RQM
289.9224	34:10	34:10	-2	1.000	9601	2219	43	107	52		M
	Empc Correction				7710	1737	43	107	40		
291.9194	34:10	34:10	-2	1.000	10014	2257	89	222	25	0.96(0.65-0.89)	
PCB-104L											
337.9207	25:39	25:38	1	0.814	2450114	540486	115	287	4700		
339.9178	25:39	25:38	1	0.814	1566429	350701	114	285	3076	1.56(1.32-1.78)	
PCB-95L											
337.9207	28:37	28:36	1	1.116	992859	201896	115	287	1756		
339.9178	28:37	28:36	1	1.116	621827	129498	114	285	1136	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2274003	461921	115	287	4017		
339.9178	31:31	31:31	0		1429769	303982	114	285	2667	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:11	-1	1.084	2369946	465963	115	287	4052		
339.9178	34:11	34:11	0	1.085	1483466	288126	114	285	2527	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	3479591	691803	2597	6492	266		
339.9178	36:09	36:09	0	1.147	2176944	441241	1784	4460	247	1.60(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:29	-1	1.157	3558961	702699	2597	6492	271		
339.9178	36:28	36:29	-1	1.157	2205020	454624	1784	4460	255	1.61(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	-1	1.174	3802074	743958	2597	6492	286		
339.9178	36:59	37:00	-1	1.174	2398657	460445	1784	4460	258	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	-1	1.195	3564777	696275	2597	6492	268		
339.9178	37:39	37:40	-2	1.195	2258718	442917	1784	4460	248	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-1		3998218	773742	2597	6492	298		
339.9178	39:06	39:07	-1		2542280	496091	1784	4460	278	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126L											
337.9207	40:44	40:45	-1	1.293	3452277	661893	2597	6492	255		
339.9178	40:44	40:45	-1	1.293	2161620	401623	1784	4460	225	1.60(1.32-1.78)	
PCB-104											
325.8804	25:42						55	137			
327.8775	25:42						11	27			
PCB-96											
325.8804	26:05	26:05	2	1.017	1445	449	55	137	8		RQ
	Empc Correction				544	158	55	137	3		
327.8775	26:04	26:05	1	1.016	351	102	11	27	9	4.12(1.32-1.78)	
PCB-103											
325.8804	28:00						55	137			
327.8775	28:00						11	27			
PCB-94											
325.8804	28:13						55	137			
327.8775	28:13						11	27			
PCB-95											
325.8804	28:38	28:39	1	1.117	9509	2169	55	137	39		RQ
	Empc Correction				7997	1629	55	137	30		
327.8775	28:39	28:39	1	1.117	5160	1051	11	27	96	1.84(1.32-1.78)	
PCB-93											
325.8804	28:53						55	137			
327.8775	28:53						11	27			
PCB-100 (C93)											
325.8804	28:53						55	137			
327.8775	28:53						11	27			
PCB-98											
325.8804	29:01	29:02	2	1.132	1190	389	55	137	7		
327.8775	28:59	29:02	0	1.130	778	224	11	27	20	1.53(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:01	29:02	2	1.132	1190	389	55	137	7		
327.8775	28:59	29:02	0	1.130	778	224	11	27	20	1.53(1.32-1.78)	
PCB-88											
325.8804	29:30						55	137			
327.8775	29:30						11	27			
PCB-91 (C88)											
325.8804	29:30						55	137			
327.8775	29:30						11	27			
PCB-84											
325.8804	29:44	29:44	0	1.159	3127	874	55	137	16		RQM M
327.8775	29:42	29:44	-2	1.158	3101	825	11	27	75	1.01(1.32-1.78)	
	Empc Correction				2017	563	11	27	51		
PCB-89											
325.8804	30:14						55	137			
327.8775	30:14						11	27			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-121											RQM
325.8804	30:33	30:33	-1	1.191	1609	571	55	137	10		M
	Empc Correction				420	224	55	137	4		
327.8775	30:31	30:33	-3	1.190	271	145	11	27	13	5.94(1.32-1.78)	
PCB-92											M
325.8804	30:58	30:58	0	0.857	2380	501	55	137	9		M
327.8775	31:00	30:58	1	0.857	1574	330	11	27	30	1.51(1.32-1.78)	M
PCB-90											M
325.8804	31:33	31:33	2	1.230	15069	2813	55	137	51		M
327.8775	31:33	31:33	1	1.230	9005	1805	11	27	164	1.67(1.32-1.78)	
PCB-101 (C90)											M
325.8804	31:33	31:33	2	1.230	15069	2813	55	137	51		M
327.8775	31:33	31:33	1	1.230	9005	1805	11	27	164	1.67(1.32-1.78)	
PCB-113 (C90)											M
325.8804	31:33	31:33	2	1.230	15069	2813	55	137	51		M
327.8775	31:33	31:33	1	1.230	9005	1805	11	27	164	1.67(1.32-1.78)	
PCB-83											RQM
325.8804	32:06	32:08	-1	1.252	8643	1605	55	137	29		
	Empc Correction				3092	988	55	137	18		
327.8775	32:08	32:08	1	1.253	1995	638	11	27	58	4.33(1.32-1.78)	M
PCB-99 (C83)											RQM
325.8804	32:06	32:08	-1	1.252	8643	1605	55	137	29		
	Empc Correction				3092	988	55	137	18		
327.8775	32:08	32:08	1	1.253	1995	638	11	27	58	4.33(1.32-1.78)	M
PCB-112											
325.8804	32:17						55	137			
327.8775	32:17						11	27			
PCB-86											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:38	32:45	1	1.272	16305	1739	55	137	32		
327.8775	32:43	32:45	7	1.276	11653	1397	11	27	127	1.40(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-85											
325.8804	33:21	33:24	1	1.300	3089	1054	55	137	19		
327.8775	33:21	33:24	2	1.300	1770	746	11	27	68	1.75(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:21	33:24	1	1.300	3089	1054	55	137	19		
327.8775	33:21	33:24	2	1.300	1770	746	11	27	68	1.75(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:21	33:24	1	1.300	3089	1054	55	137	19		
327.8775	33:21	33:24	2	1.300	1770	746	11	27	68	1.75(1.32-1.78)	
PCB-110											
325.8804	33:31	33:32	-2	1.306	18688	3802	55	137	69		
327.8775	33:31	33:32	-2	1.307	12379	2567	11	27	233	1.51(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:31	33:32	-2	1.306	18688	3802	55	137	69		
327.8775	33:31	33:32	-2	1.307	12379	2567	11	27	233	1.51(1.32-1.78)	
PCB-82											
325.8804	33:50	33:53	-1	1.319	3133	849	55	137	15		RQ
Empc Correction											
327.8775	33:49	33:53	-2	1.318	591	132	11	27	12	5.30(1.32-1.78)	
PCB-111											
325.8804	34:15						55	137			
327.8775	34:15						11	27			
PCB-120											
325.8804	34:43						55	137			
327.8775	34:43						11	27			
PCB-108											
325.8804	35:53						126	315			
327.8775	35:53						147	367			
PCB-124 (C108)											
325.8804	35:53						126	315			
327.8775	35:53						147	367			
PCB-107											
325.8804	36:07						126	315			
327.8775	36:07						147	367			
PCB-123											
325.8804	36:11						126	315			
327.8775	36:11						147	367			
PCB-106											
325.8804	36:18						126	315			
327.8775	36:18						147	367			
PCB-118											
325.8804	36:29	36:30	-1	1.001	23734	5073	126	315	40		
327.8775	36:30	36:30	0	1.001	13874	2995	147	367	20	1.71(1.32-1.78)	
PCB-122											
325.8804	36:52						126	315			
327.8775	36:52						147	367			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114											
325.8804	37:02						126	315			
327.8775	37:02						147	367			
PCB-105											
325.8804	37:41	37:42	0	1.001	14039	3684	126	315	29		RQ
	Empc Correction				11766	1921	126	315	15		
327.8775	37:41	37:42	0	1.001	7591	1240	147	367	8	1.85(1.32-1.78)	
PCB-127											
325.8804	39:09	39:09	0	1.039	1724	555	126	315	4		RQ
327.8775	39:09	39:09	0	1.039	1807	557	147	367	4	0.95(1.32-1.78)	
	Empc Correction				1112	358	147	367	2		
PCB-126											
325.8804	40:46						126	315			
327.8775	40:46						147	367			
PCB-155L											
371.8817	31:16	31:15	0	0.790	1894988	403543	87	217	4638		
373.8788	31:16	31:15	0	0.790	1466888	307372	58	145	5300	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:19	38:19	-1	0.900	1288544	249757	840	2100	297		
373.8788	38:20	38:19	0	0.900	971431	188114	1447	3617	130	1.33(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:36	-1		2555663	503466	840	2100	599		
373.8788	39:35	39:36	-1		2007685	398380	1447	3617	275	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:34	-1	1.076	2684402	516382	840	2100	615		
373.8788	42:34	42:34	-1	1.076	2060237	402437	1447	3617	278	1.30(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:43	0	1.105	5702828	728523	840	2100	867		
373.8788	43:44	43:43	0	1.105	4459784	576340	1447	3617	398	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:43	0	1.105	5702828	728523	840	2100	867		
373.8788	43:44	43:43	0	1.105	4459784	576340	1447	3617	398	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:57	0	1.187	2711434	500151	840	2100	595		
373.8788	46:57	46:57	-1	1.186	2088417	382900	1447	3617	265	1.30(1.05-1.43)	
PCB-155											
359.8415	31:19						5	12			
361.8385	31:19						3	7			
PCB-152											
359.8415	31:32						5	12			
361.8385	31:32						3	7			
PCB-150											
359.8415	31:41						5	12			
361.8385	31:41						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											M
359.8415	32:03	32:06	0	1.025	966	264	5	12	53		
361.8385	32:06	32:06	3	1.027	833	227	3	7	76	1.16(1.05-1.43)	M
PCB-145											
359.8415	32:21						5	12			
361.8385	32:21						3	7			
PCB-148											
359.8415	33:51						5	12			
361.8385	33:51						3	7			
PCB-135											RQM
359.8415	34:25	34:27	-1	1.101	2225	658	5	12	132		
	Empc Correction				1871	414	5	12	83		
361.8385	34:27	34:27	1	1.102	1509	334	3	7	111	1.47(1.05-1.43)	M
PCB-151 (C135)											RQM
359.8415	34:25	34:27	-1	1.101	2225	658	5	12	132		
	Empc Correction				1871	414	5	12	83		
361.8385	34:27	34:27	1	1.102	1509	334	3	7	111	1.47(1.05-1.43)	M
PCB-154											
359.8415	34:41						5	12			
361.8385	34:41						3	7			
PCB-144											RQM
359.8415	35:02	35:00	2	1.121	606	163	5	12	33		M
	Empc Correction				117	37	5	12	7		
361.8385	34:58	35:00	-2	1.119	95	30	3	7	10	6.38(1.05-1.43)	
PCB-147											
359.8415	35:21	35:19	-1	1.131	10845	2304	30	75	77		
361.8385	35:20	35:19	-2	1.130	9703	2167	53	132	41	1.12(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:21	35:19	-1	1.131	10845	2304	30	75	77		
361.8385	35:20	35:19	-2	1.130	9703	2167	53	132	41	1.12(1.05-1.43)	
PCB-134											
359.8415	35:41						30	75			
361.8385	35:41						53	132			
PCB-143 (C134)											
359.8415	35:41						30	75			
361.8385	35:41						53	132			
PCB-139											
359.8415	35:58						30	75			
361.8385	35:58						53	132			
PCB-140 (C139)											
359.8415	35:58						30	75			
361.8385	35:58						53	132			
PCB-131											
359.8415	36:11						30	75			
361.8385	36:11						53	132			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-142											
359.8415	36:19						30	75			
361.8385	36:19						53	132			
PCB-132											
359.8415	36:37	36:39	-1	1.172	6342	1393	30	75	46		RQ
	Empc Correction				4471	1031	30	75	34		
361.8385	36:40	36:39	1	1.173	3606	832	53	132	16	1.76(1.05-1.43)	
PCB-133											
359.8415	37:07						30	75			
361.8385	37:07						53	132			
PCB-165											
359.8415	37:29						30	75			
361.8385	37:29						53	132			
PCB-146											
359.8415	37:46	37:45	1	0.887	2885	723	30	75	24		RQ
	Empc Correction				2308	509	30	75	17		
361.8385	37:44	37:45	-2	0.886	1862	411	53	132	8	1.55(1.05-1.43)	
PCB-161											
359.8415	37:52						30	75			
361.8385	37:52						53	132			
PCB-153											
359.8415	38:20	38:20	-3	0.900	22224	4611	30	75	154		
361.8385	38:21	38:20	-3	0.901	17331	3868	53	132	73	1.28(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:20	38:20	-3	0.900	22224	4611	30	75	154		
361.8385	38:21	38:20	-3	0.901	17331	3868	53	132	73	1.28(1.05-1.43)	
PCB-141											
359.8415	38:35	38:35	1	0.906	5908	1380	30	75	46		RQM M
	Empc Correction				5025	1081	30	75	36		
361.8385	38:34	38:35	0	0.906	4053	872	53	132	16	1.46(1.05-1.43)	
PCB-130											
359.8415	39:00	38:58	1	0.916	1975	390	30	75	13		RQ
	Empc Correction				1092	403	30	75	13		
361.8385	38:58	38:58	-2	0.915	881	325	53	132	6	2.24(1.05-1.43)	
PCB-137											
359.8415	39:11	39:12	0	0.920	2411	463	30	75	15		RQ
361.8385	39:09	39:12	-2	0.920	3350	568	53	132	11	0.72(1.05-1.43)	
	Empc Correction				1944	373	53	132	7		
PCB-164											
359.8415	39:20	39:19	1	0.924	1683	387	30	75	13		RQ
	Empc Correction				1449	531	30	75	18		
361.8385	39:19	39:19	0	0.923	1169	429	53	132	8	1.44(1.05-1.43)	
PCB-129											
359.8415	39:38	39:38	0	0.931	30868	5627	30	75	188		
361.8385	39:36	39:38	-2	0.930	23575	4308	53	132	81	1.31(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.931	30868	5627	30	75	188		
361.8385	39:36	39:38	-2	0.930	23575	4308	53	132	81	1.31(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-160 (C129)											
359.8415	39:38	39:38	0	0.931	30868	5627	30	75	188		
361.8385	39:36	39:38	-2	0.930	23575	4308	53	132	81	1.31(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:38	39:38	0	0.931	30868	5627	30	75	188		
361.8385	39:36	39:38	-2	0.930	23575	4308	53	132	81	1.31(1.05-1.43)	
PCB-158											
359.8415	40:01	40:00	1	0.940	4425	839	30	75	28		
361.8385	39:58	40:00	-2	0.939	3715	807	53	132	15	1.19(1.05-1.43)	
PCB-128											
359.8415	40:53	40:51	3	0.960	5148	1056	30	75	35		RQ
361.8385	40:53	40:51	3	0.960	5315	1397	53	132	26	0.97(1.05-1.43)	
Empc Correction					4151	851	53	132	16		
PCB-166 (C128)											
359.8415	40:53	40:51	3	0.960	5148	1056	30	75	35		RQ
361.8385	40:53	40:51	3	0.960	5315	1397	53	132	26	0.97(1.05-1.43)	
Empc Correction					4151	851	53	132	16		
PCB-159											
359.8415	41:49						30	75			
361.8385	41:49						53	132			
PCB-162											
359.8415	42:07						30	75			
361.8385	42:07						53	132			
PCB-167											
359.8415	42:35						30	75			
361.8385	42:35						53	132			
PCB-156											
359.8415	43:41	43:41	-5	0.999	4925	798	30	75	27		RQM
Empc Correction					3246	778	30	75	26		M
361.8385	43:44	43:41	-2	1.000	2618	628	53	132	12	1.88(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:41	43:41	-5	0.999	4925	798	30	75	27		RQM
Empc Correction					3246	778	30	75	26		M
361.8385	43:44	43:41	-2	1.000	2618	628	53	132	12	1.88(1.05-1.43)	
PCB-169											
359.8415	46:59						30	75			
361.8385	46:59						53	132			
PCB-188L											
405.8428	36:59	36:58	0	0.820	2143134	429259	40	100	10731		
407.8398	36:59	36:58	0	0.820	2034379	401057	92	230	4359	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:01	-1	0.887	1350459	258049	40	100	6451		
407.8398	40:02	40:01	0	0.888	1263825	251697	92	230	2736	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	0		1683826	321577	40	100	8039		
407.8398	45:06	45:07	0		1556041	303356	92	230	3297	1.08(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-170L											
405.8428	46:22	46:22	-1	1.028	1282177	247334	40	100	6183		
407.8398	46:22	46:22	-1	1.028	1193970	231358	92	230	2515	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.097	2820253	516074	1072	2680	481		
407.8398	49:28	49:27	-1	1.097	2585814	472876	2187	5467	216	1.09(0.89-1.21)	
PCB-188											
393.8025	37:02						3	7			
395.7995	37:02						1	2			
PCB-179											
393.8025	37:21	37:23	-1	1.010	770	209	3	7	70		RQ
	Empc Correction				596	193	3	7	64		
395.7995	37:23	37:23	1	1.011	568	184	1	2	184	1.36(0.89-1.21)	
PCB-184											
393.8025	37:51						3	7			
395.7995	37:51						1	2			
PCB-176											
393.8025	38:13						3	7			
395.7995	38:13						1	2			
PCB-186											
393.8025	38:43						3	7			
395.7995	38:43						1	2			
PCB-178											
393.8025	40:03						3	7			
395.7995	40:03						1	2			
PCB-175											
393.8025	40:42						3	7			
395.7995	40:42						1	2			
PCB-187											
393.8025	40:58	40:54	1	1.108	2689	671	3	7	224		RQ
	Empc Correction				1540	342	3	7	114		
395.7995	40:57	40:54	-1	1.107	1467	326	1	2	326	1.83(0.89-1.21)	
PCB-182											
393.8025	41:10						3	7			
395.7995	41:10						1	2			
PCB-183											
393.8025	41:31	41:36	-3	1.123	1645	405	3	7	135		RQ
395.7995	41:34	41:36	1	1.124	2388	654	1	2	654	0.69(0.89-1.21)	
	Empc Correction				1566	385	1	2	385		
PCB-185 (C183)											
393.8025	41:31	41:36	-3	1.123	1645	405	3	7	135		RQ
395.7995	41:34	41:36	1	1.124	2388	654	1	2	654	0.69(0.89-1.21)	
	Empc Correction				1566	385	1	2	385		
PCB-174											
393.8025	41:51	41:50	1	1.132	947	366	3	7	122		RQ
	Empc Correction				182	67	3	7	22		
395.7995	41:47	41:50	-3	1.130	174	64	1	2	64	5.44(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-177											RQ
393.8025	42:15	42:15	-1	1.142	383	163	3	7	54	0.49(0.89-1.21)	
395.7995	42:12	42:15	-3	1.141	784	224	1	2	224		
Empc Correction					364	155	1	2	155		
PCB-181											
393.8025	42:39						3	7			
395.7995	42:39						1	2			
PCB-171											RQ
393.8025	42:49	42:55	-3	1.158	303	78	3	7	26	2.16(0.89-1.21)	
Empc Correction					146	39	3	7	13		
395.7995	42:48	42:55	-4	1.157	140	38	1	2	38		
PCB-173 (C171)											RQ
393.8025	42:49	42:55	-3	1.158	303	78	3	7	26	2.16(0.89-1.21)	
Empc Correction					146	39	3	7	13		
395.7995	42:48	42:55	-4	1.157	140	38	1	2	38		
PCB-172											
393.8025	44:30						3	7			
395.7995	44:30						1	2			
PCB-192											
393.8025	44:45						3	7			
395.7995	44:45						1	2			
PCB-180											RQM
393.8025	45:08	45:08	2	0.912	3119	721	3	7	240	1.31(0.89-1.21)	M
Empc Correction					2494	595	3	7	198		
395.7995	45:06	45:08	0	0.912	2376	567	1	2	567		
PCB-193 (C180)											RQM
393.8025	45:08	45:08	2	0.912	3119	721	3	7	240	1.31(0.89-1.21)	M
Empc Correction					2494	595	3	7	198		
395.7995	45:06	45:08	0	0.912	2376	567	1	2	567		
PCB-191											
393.8025	45:29						3	7			
395.7995	45:29						1	2			
PCB-170											RQM
393.8025	46:22	46:26	-3	0.937	637	235	3	7	78	0.46(0.89-1.21)	Ma
395.7995	46:23	46:26	-2	0.938	1394	473	1	2	473		M
Empc Correction					606	223	1	2	223		
PCB-190											
393.8025	46:55						3	7			
395.7995	46:55						1	2			
PCB-189											
393.8025	49:31						12	30			
395.7995	49:31						17	42			
PCB-202L											
439.8038	42:20	42:19	0	0.821	1363386	262969	11	27	23906	0.92(0.76-1.02)	
441.8008	42:20	42:19	0	0.821	1487094	292908	55	137	5326		
PCB-194L											
439.8038	51:34	51:35	-2		2000213	379629	108	270	3515	0.93(0.76-1.02)	
441.8008	51:34	51:35	-2		2154476	409492	109	272	3757		

	Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-205L											
	439.8038	52:02	52:02	-1	1.009	2157004	395348	108	270	3661		
	441.8008	52:02	52:02	-1	1.009	2408580	443993	109	272	4073	0.90(0.76-1.02)	
	PCB-202											
	427.7635	42:23						3	7			
	429.7606	42:23						2	5			
	PCB-201											
	427.7635	43:18						3	7			
	429.7606	43:18						2	5			
	PCB-204											
	427.7635	43:58						3	7			
	429.7606	43:58						2	5			
	PCB-197											
	427.7635	44:11						3	7			
	429.7606	44:11						2	5			
	PCB-200											
	427.7635	44:19						3	7			
	429.7606	44:19						2	5			
	PCB-198											
	427.7635	47:06	47:05	2	1.113	404	197	3	7	66		M
	429.7606	47:08	47:05	4	1.113	525	226	2	5	113	0.77(0.76-1.02)	M
	PCB-199 (C198)											
	427.7635	47:06	47:05	2	1.113	404	197	3	7	66		M
	429.7606	47:08	47:05	4	1.113	525	226	2	5	113	0.77(0.76-1.02)	M
	PCB-196											
	427.7635	47:44						3	7			
	429.7606	47:44						2	5			
	PCB-203											
	427.7635	47:56	47:57	0	0.921	225	67	3	7	22		RQ
	429.7606	47:58	47:57	1	0.922	360	108	2	5	54	0.63(0.76-1.02)	
	Empc Correction					252	75	2	5	38		
	PCB-195											
	427.7635	49:16						3	7			
	429.7606	49:16						5	12			
	PCB-194											
	427.7635	51:35						3	7			
	429.7606	51:35						5	12			
	PCB-205											
	427.7635	52:05						3	7			
	429.7606	52:05						5	12			
	PCB-208L											
	473.7648	48:59	48:59	-1	0.950	1634738	301918	257	642	1175		
	475.7619	48:59	48:59	-2	0.950	2076792	384083	292	730	1315	0.79(0.65-0.89)	
	PCB-206L											
	473.7648	53:47	53:47	-1	1.043	1248150	238584	257	642	928		
	475.7619	53:47	53:47	-1	1.043	1514400	279304	292	730	957	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:01						21	52			
463.7216	49:01						269	672			
PCB-207											
461.7246	49:57						21	52			
463.7216	49:57						269	672			
PCB-206											
461.7246	53:49						21	52			
463.7216	53:49						269	672			
PCB-209L											
507.7258	55:24	55:23	0	1.074	1181942	212668	73	182	2913		
509.7229	55:24	55:23	0	1.074	1689514	307036	30	75	10235	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:27	-1	1.000	1226	575	2	5	288		RQ
	Empc Correction				737	342	2	5	171		
497.6826	55:27	55:27	1	1.001	1069	497	4	10	124	1.15(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

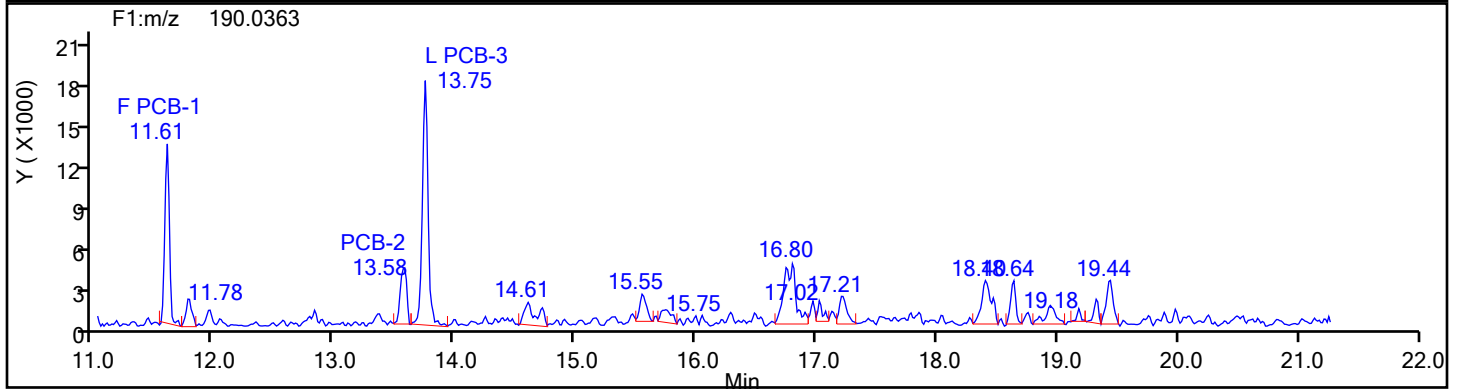
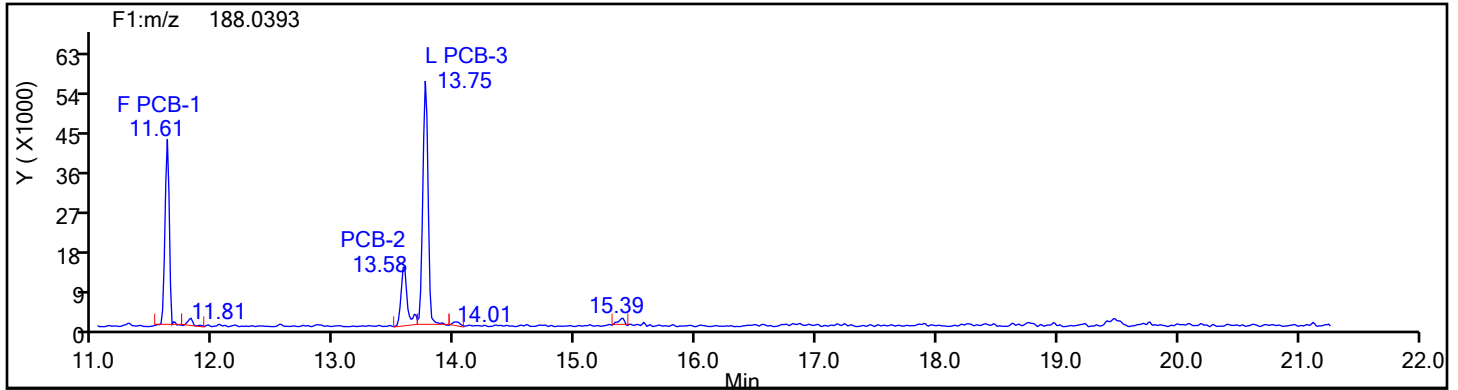
M - Manually Integrated

U - Marked Undetected

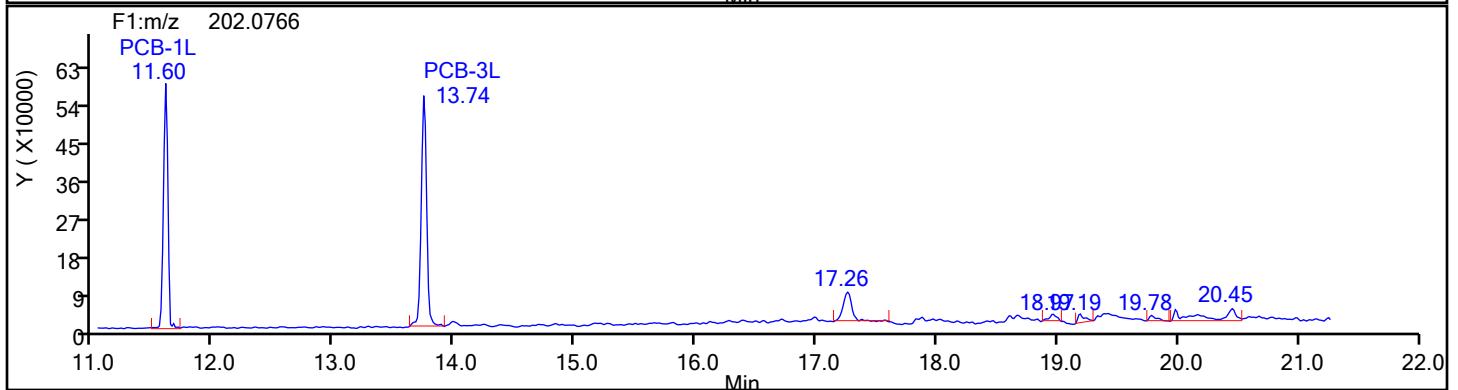
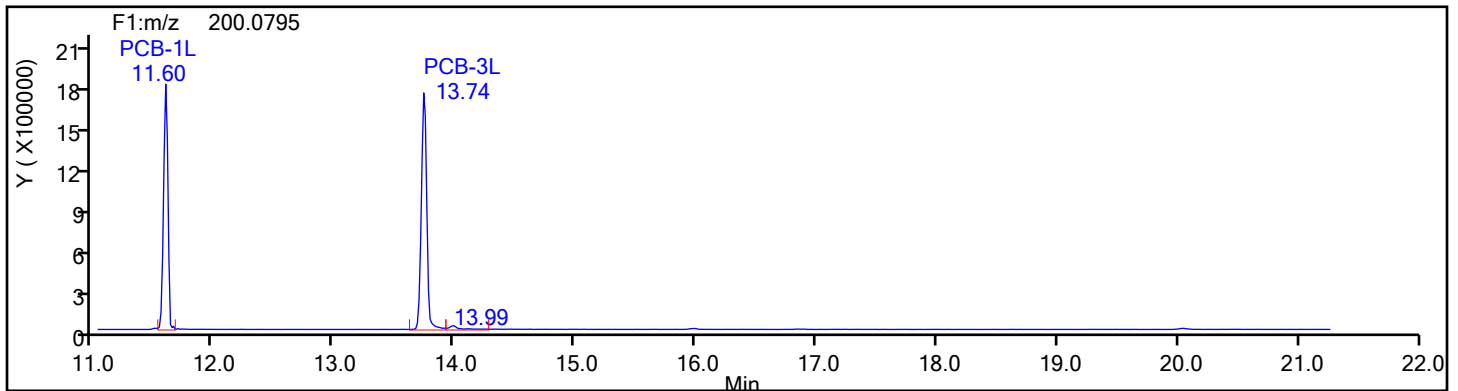
a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

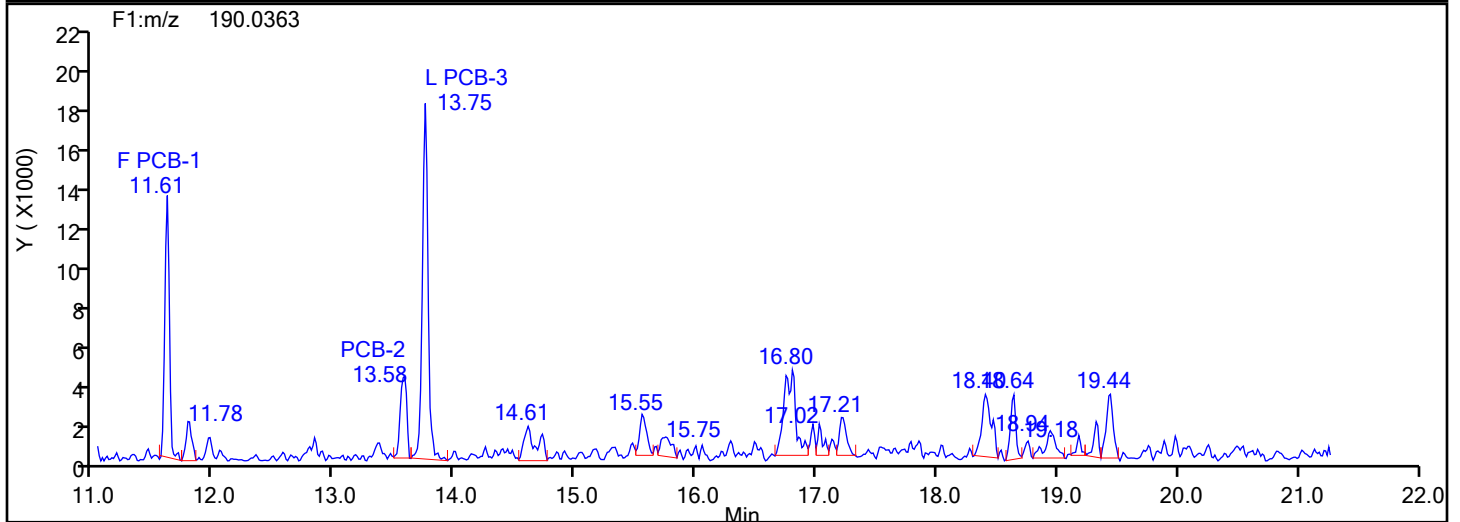
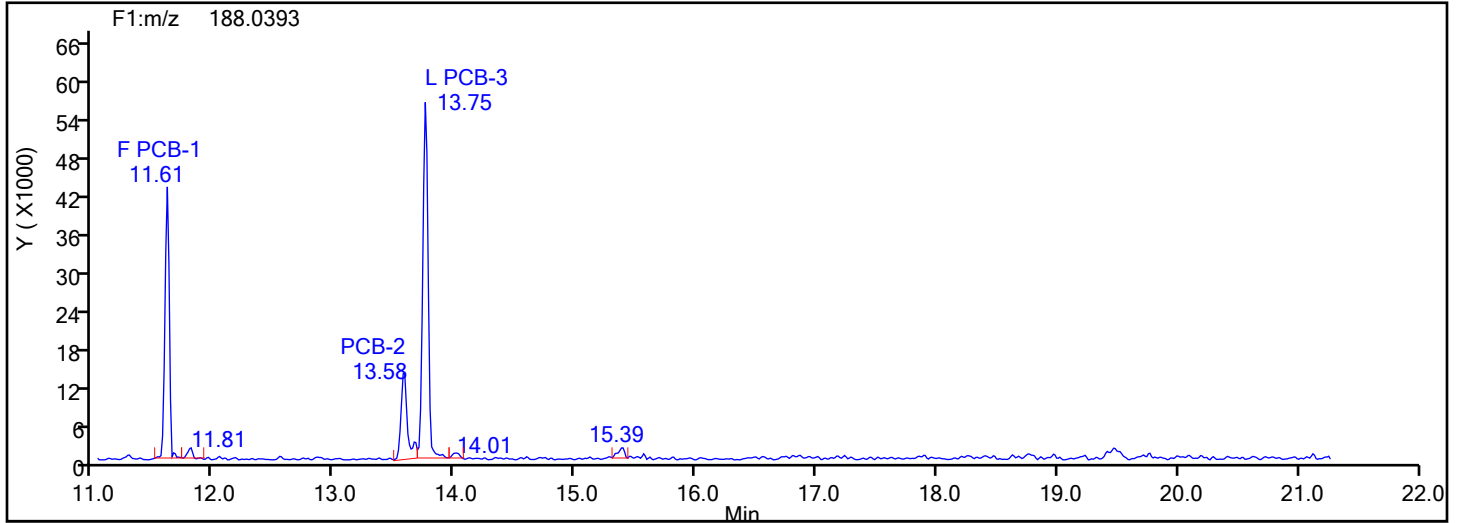


MoPCB F1 Standards

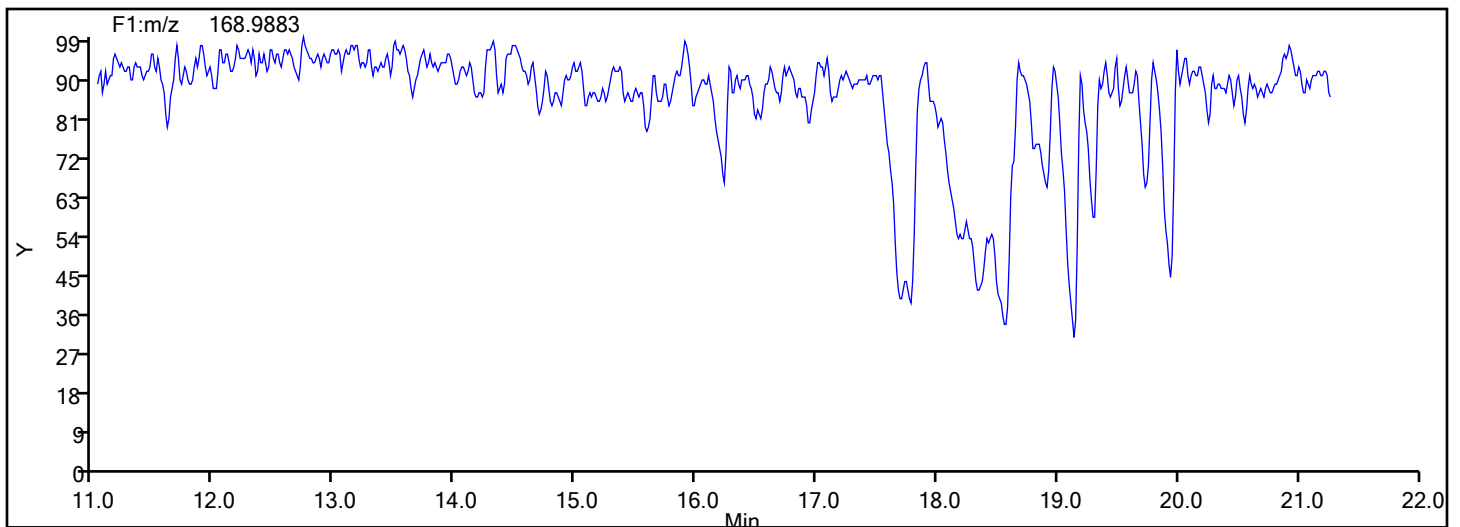


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

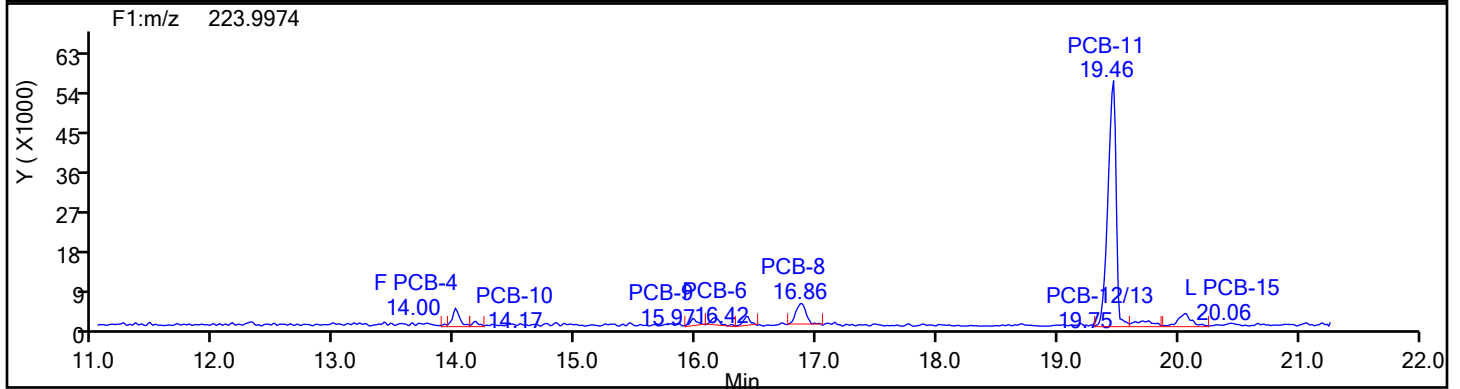
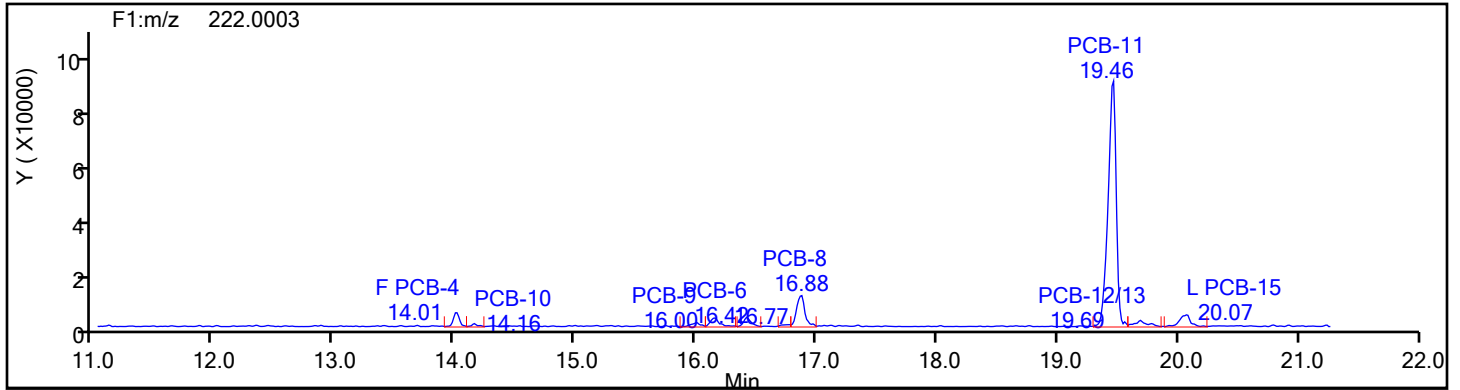


MoPCB F1 Lock Mass

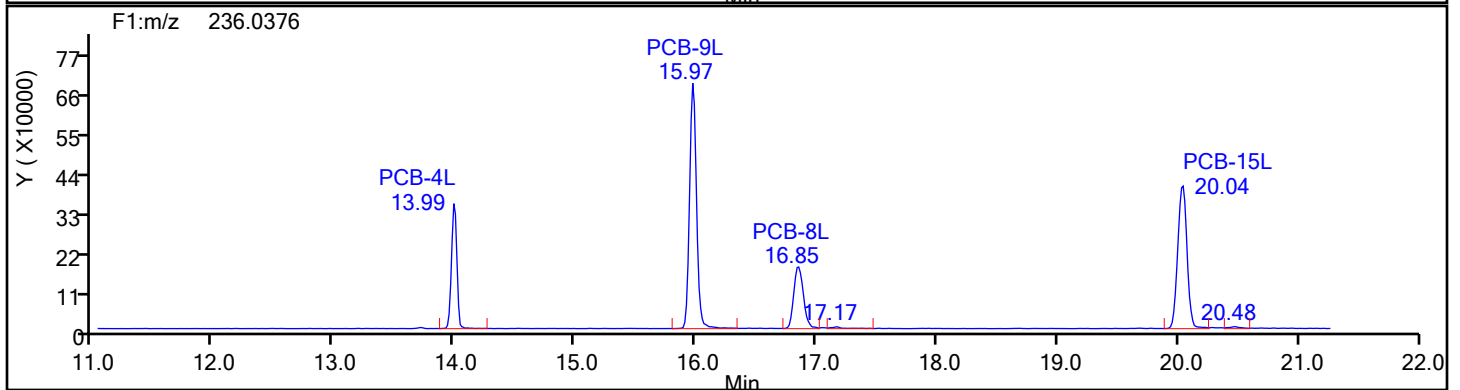
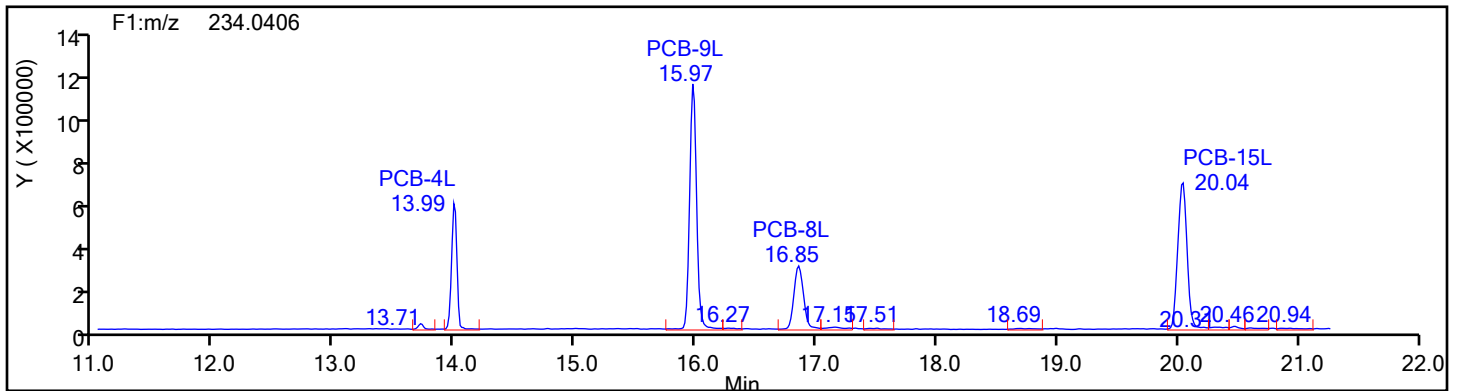


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

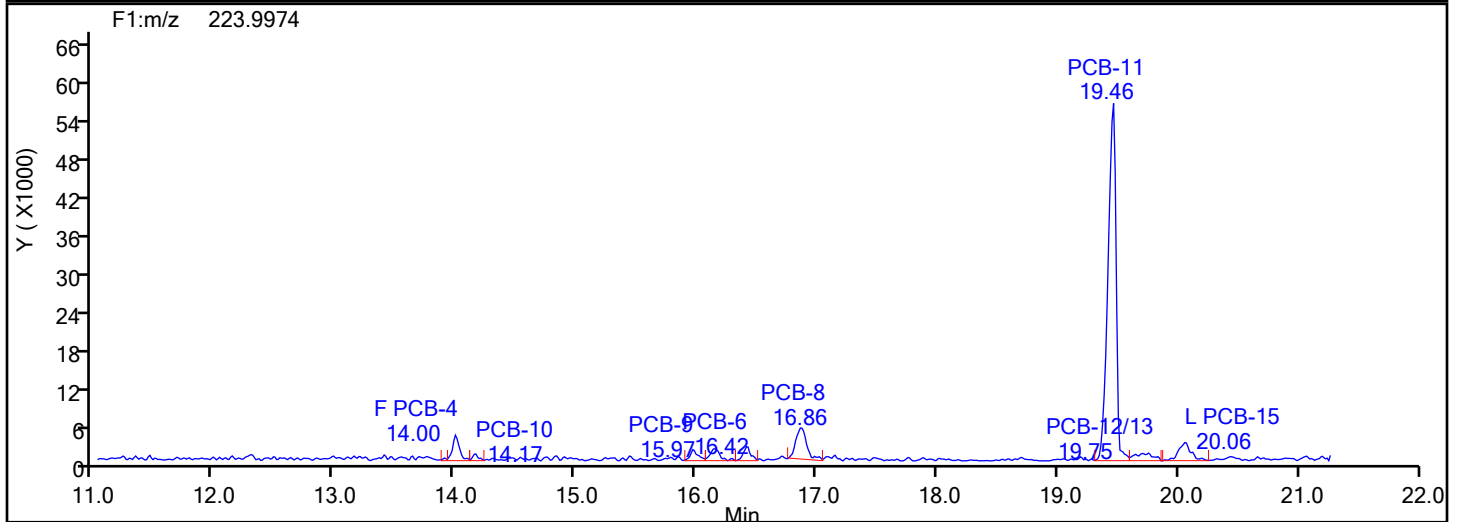
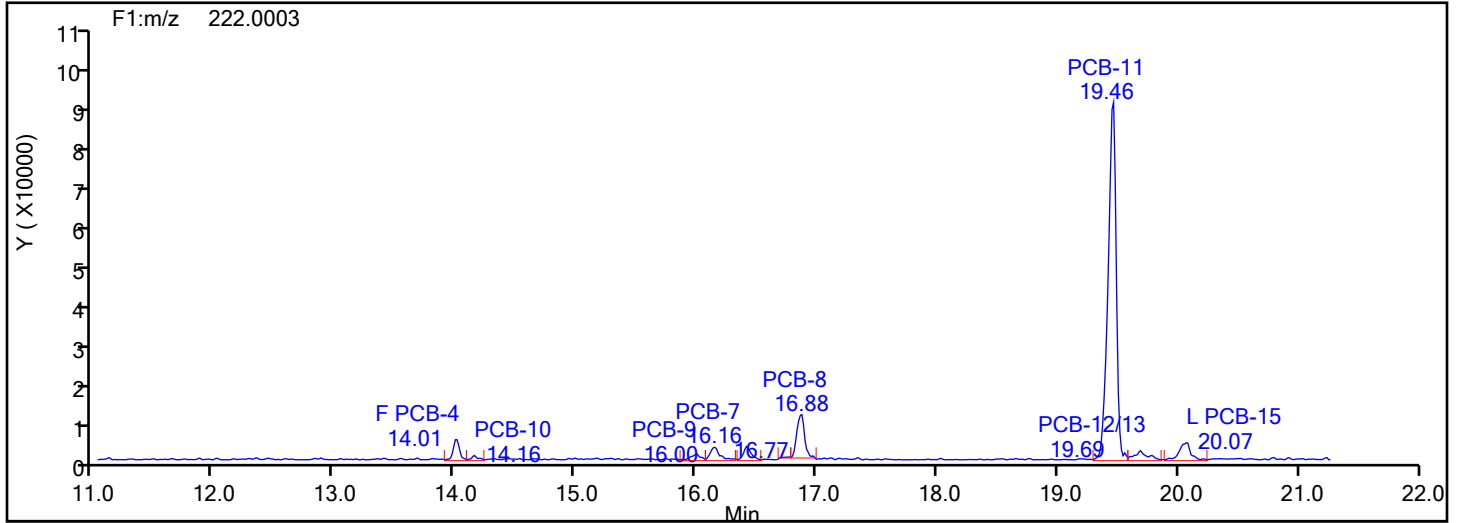


DiPCB F1 Standards

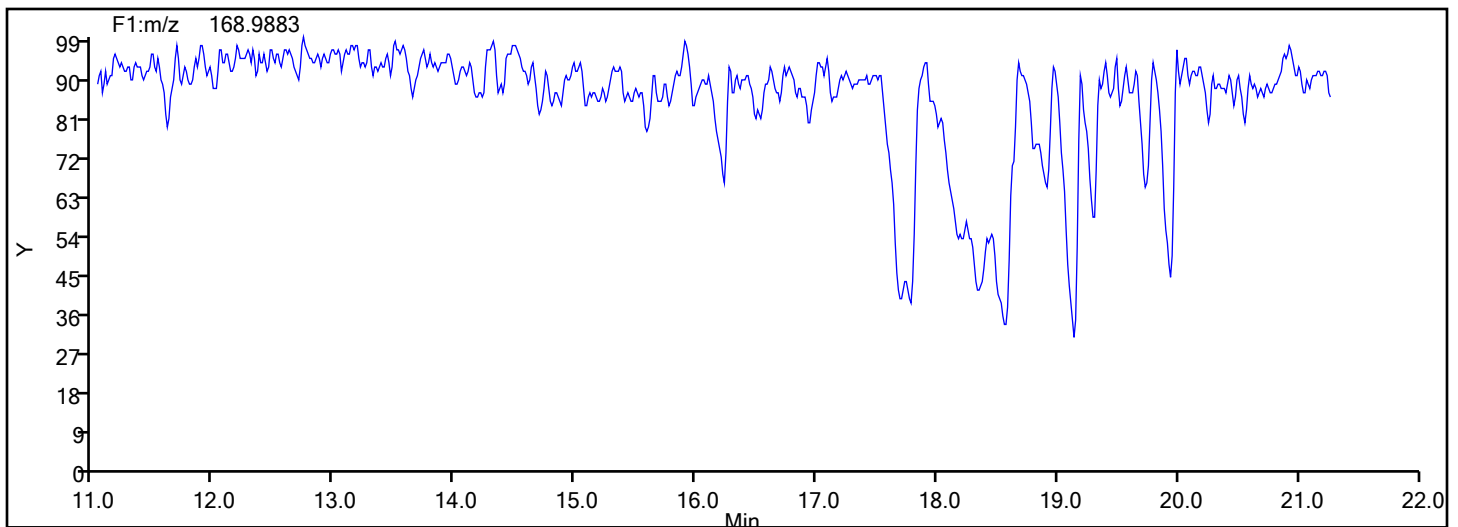


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

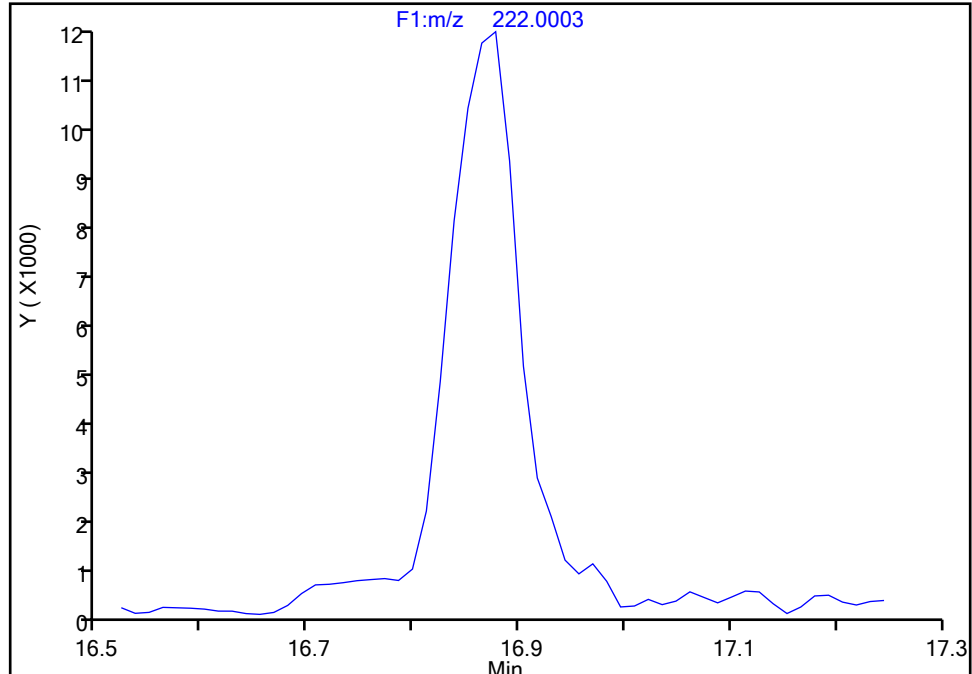
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

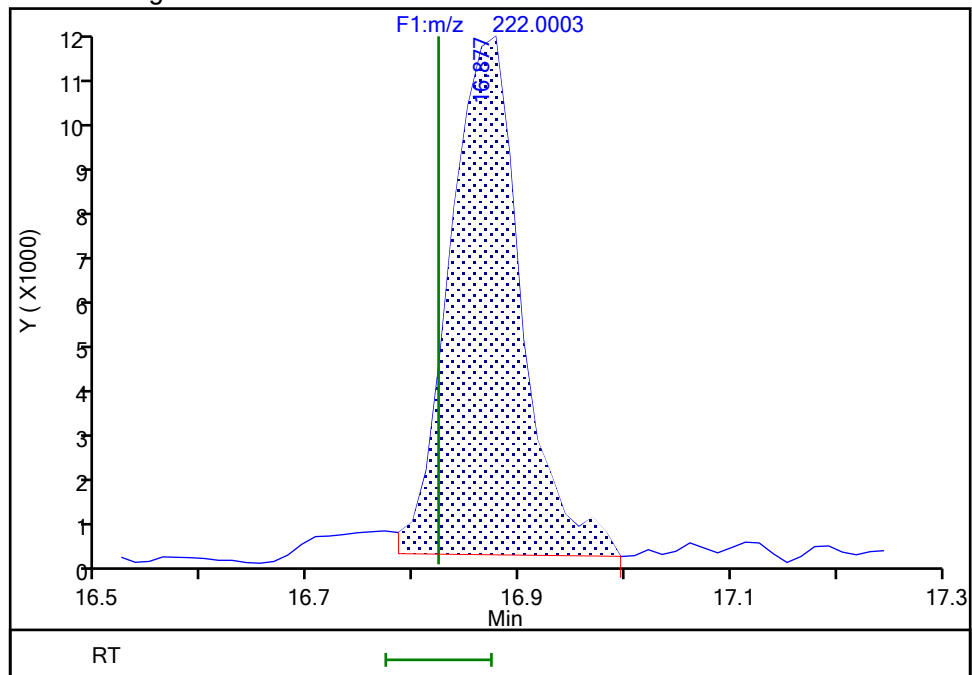
Not Detected
Expected RT: 16.82

Processing Integration Results



RT: 16.88
Area: 51213
Amount: 1.210394
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:45:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

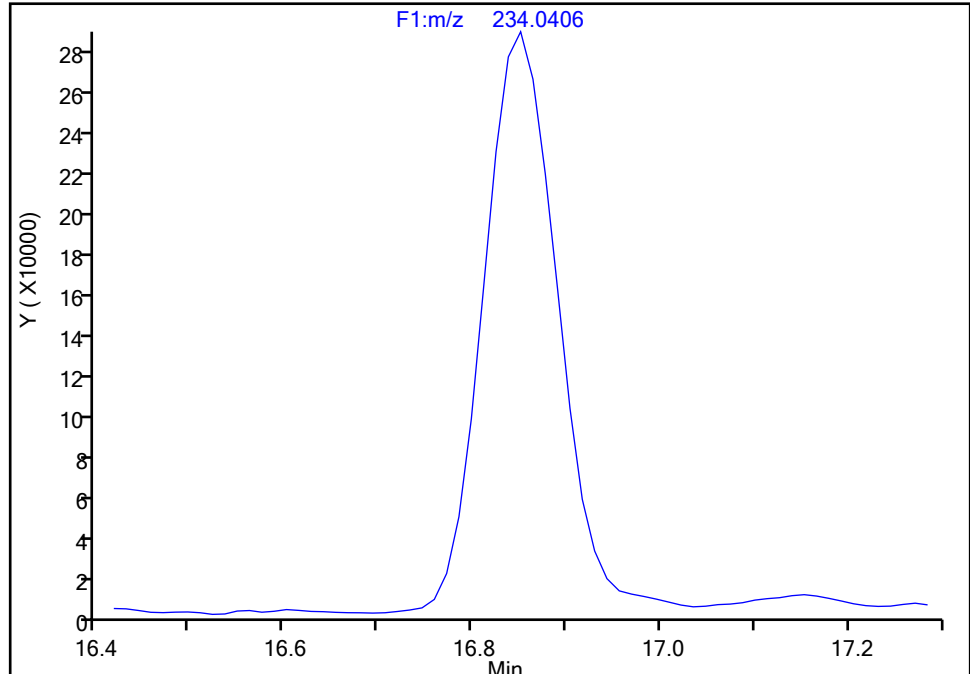
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

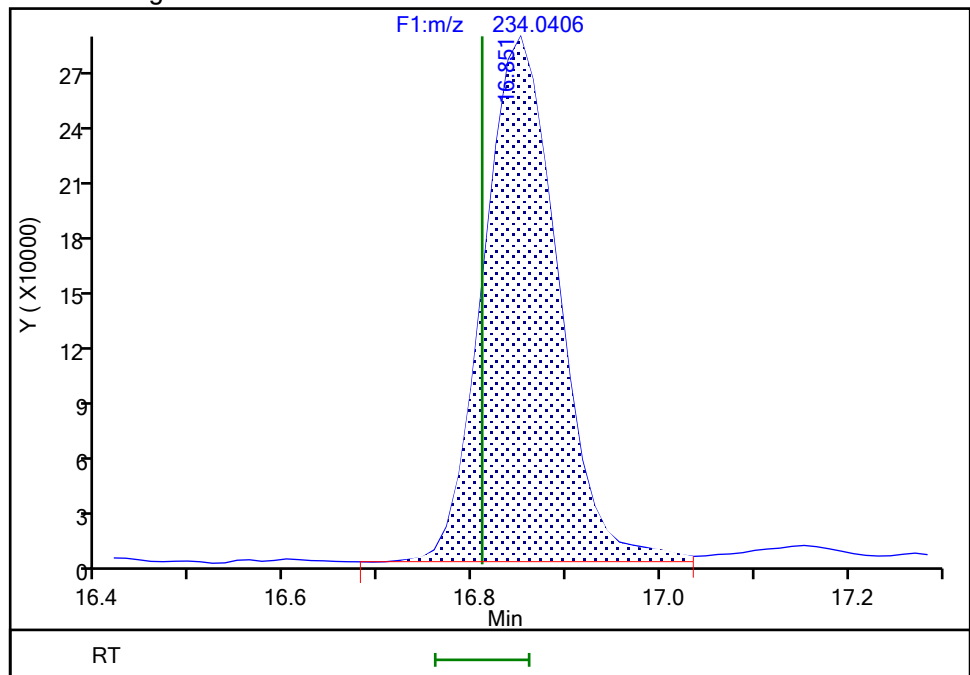
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.85
Area: 1560600
Amount: 49.314061
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:45:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

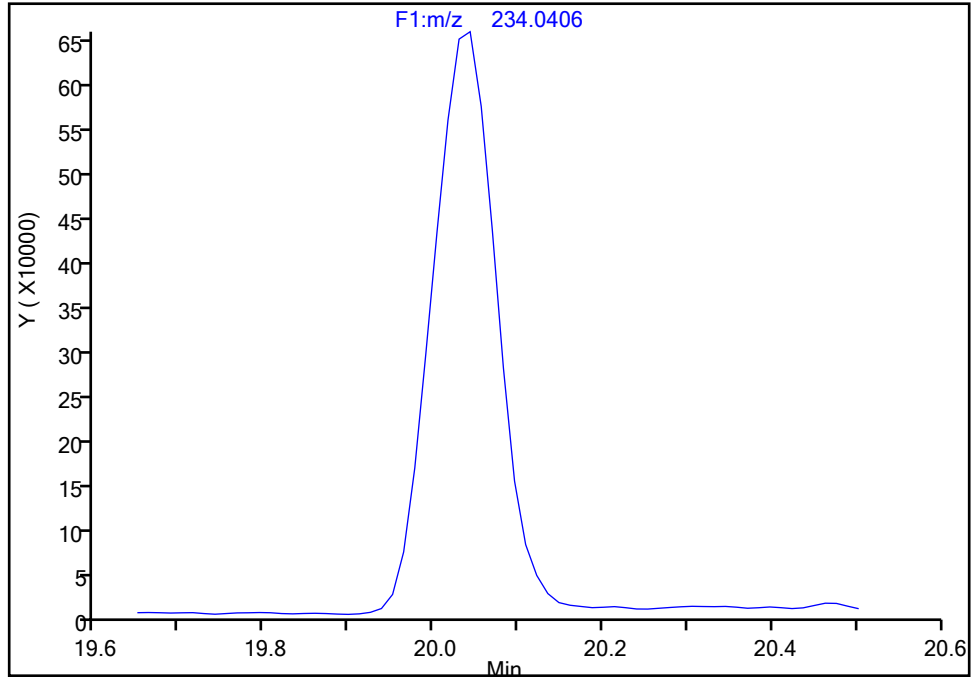
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

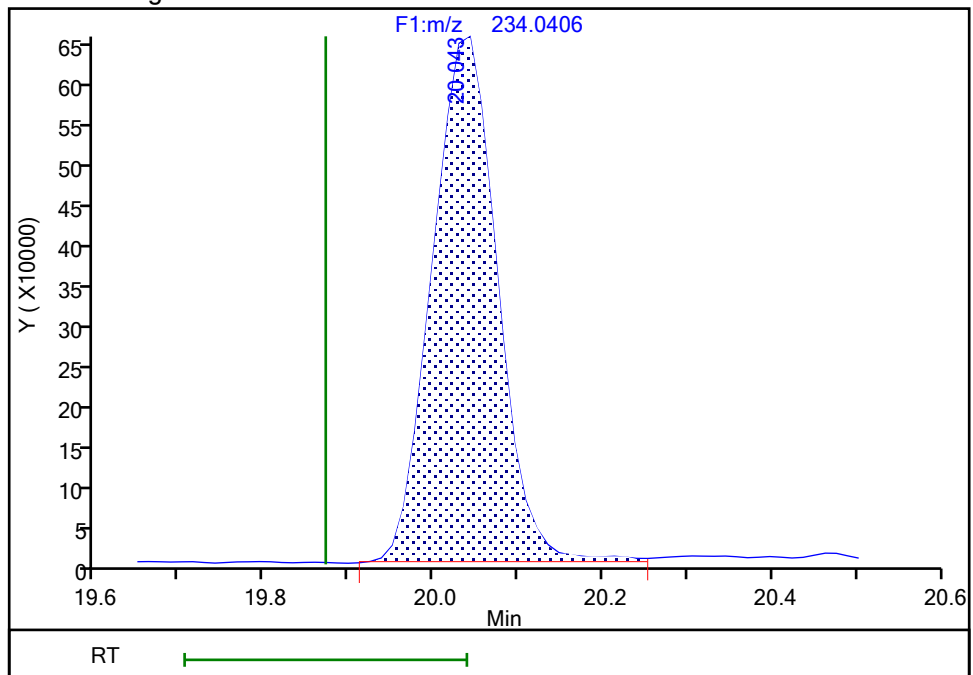
Not Detected
Expected RT: 19.87

Processing Integration Results



RT: 20.04
Area: 3528068
Amount: 73.206567
Amount Units: pg/ul

Manual Integration Results



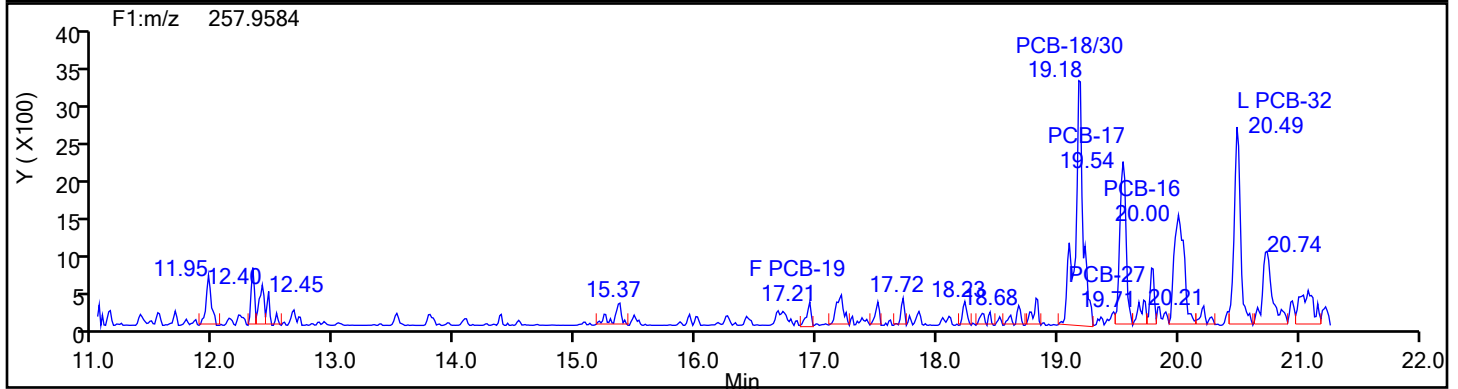
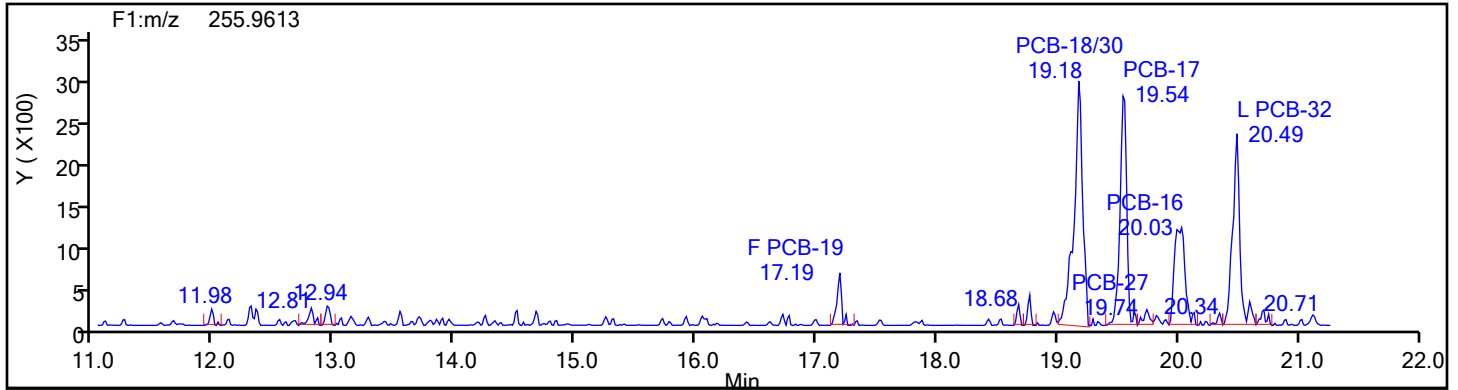
Reviewer: V4XA, 16-Jul-2024 21:45:08 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

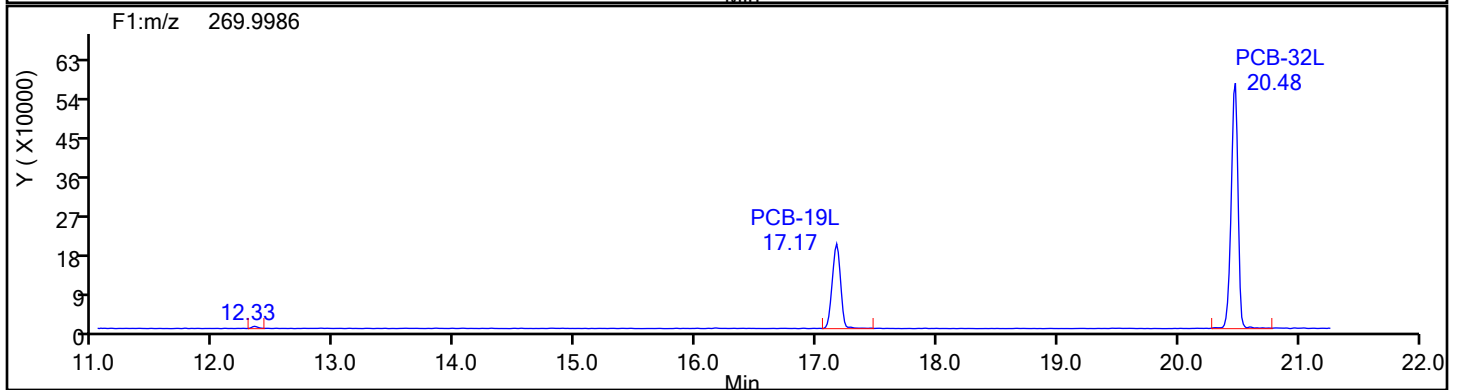
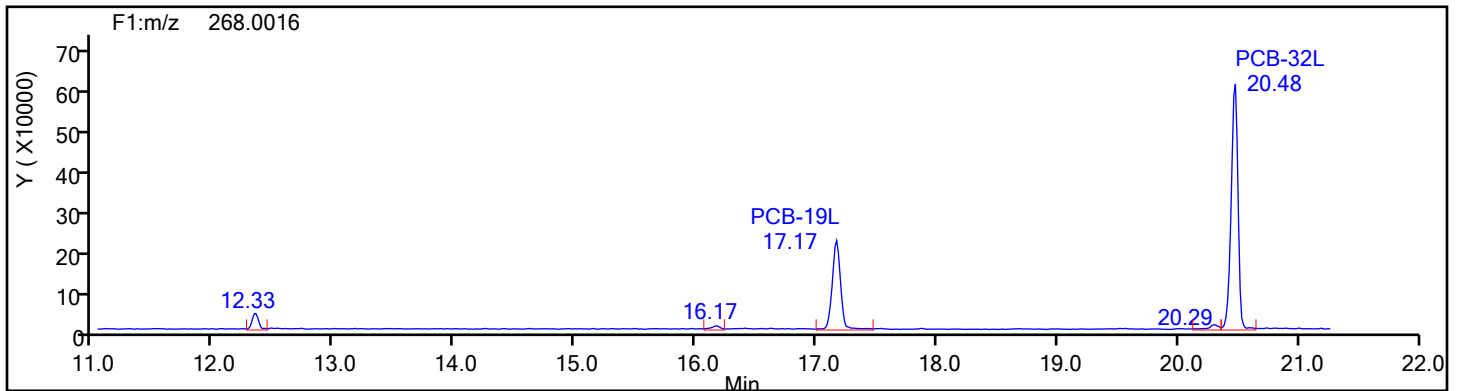
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

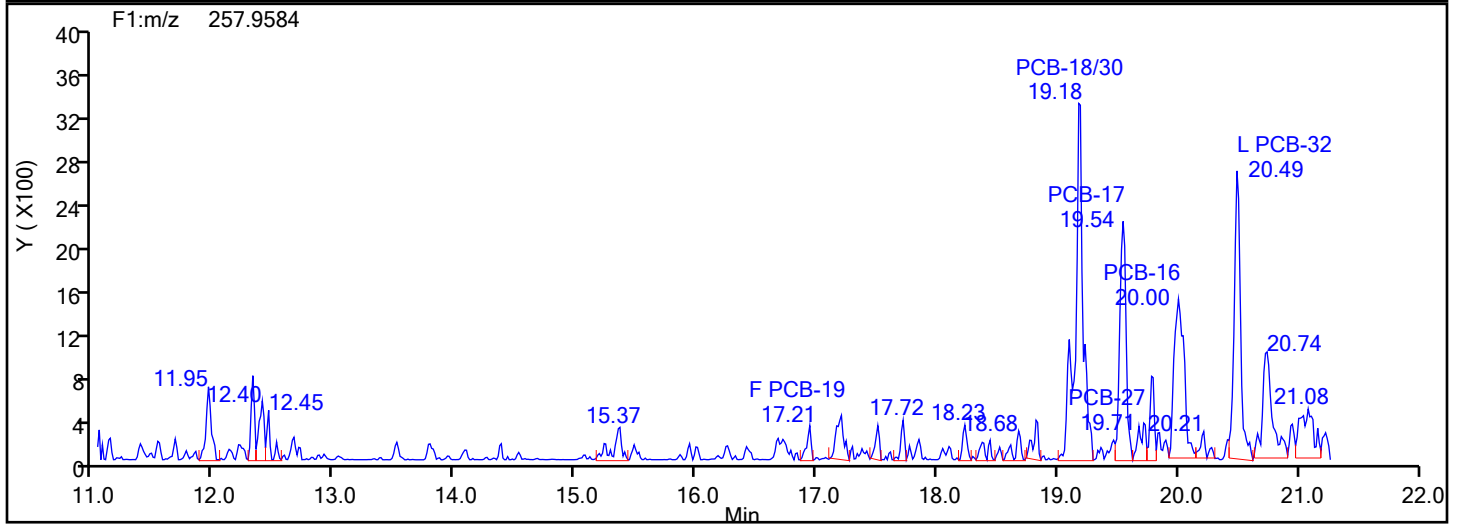
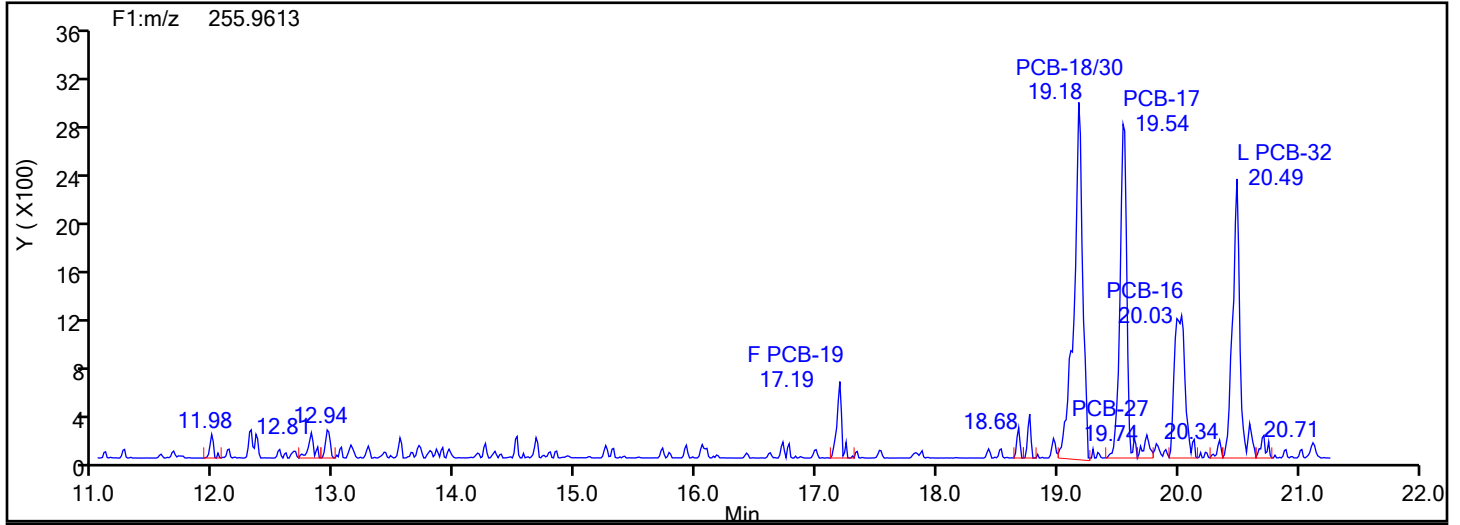


TriPCB F1 Standards

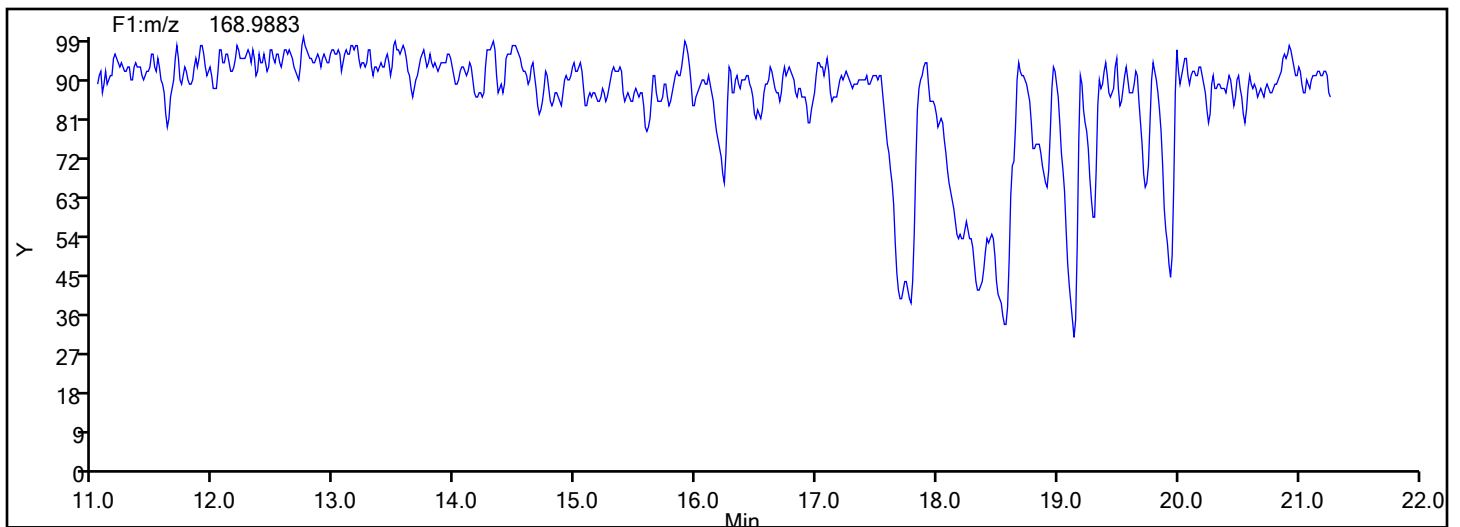


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

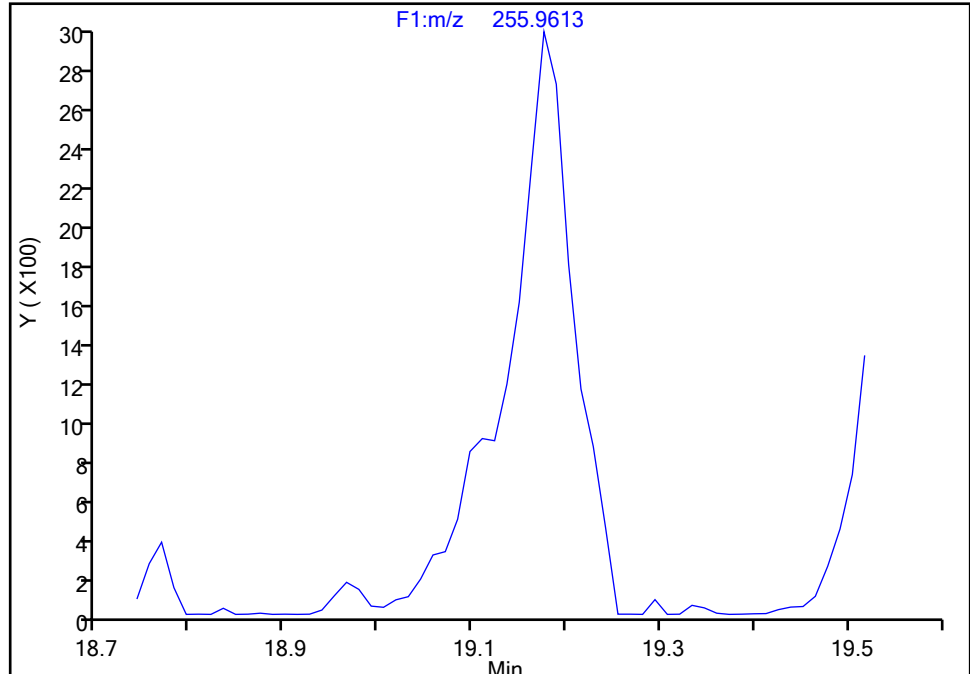
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

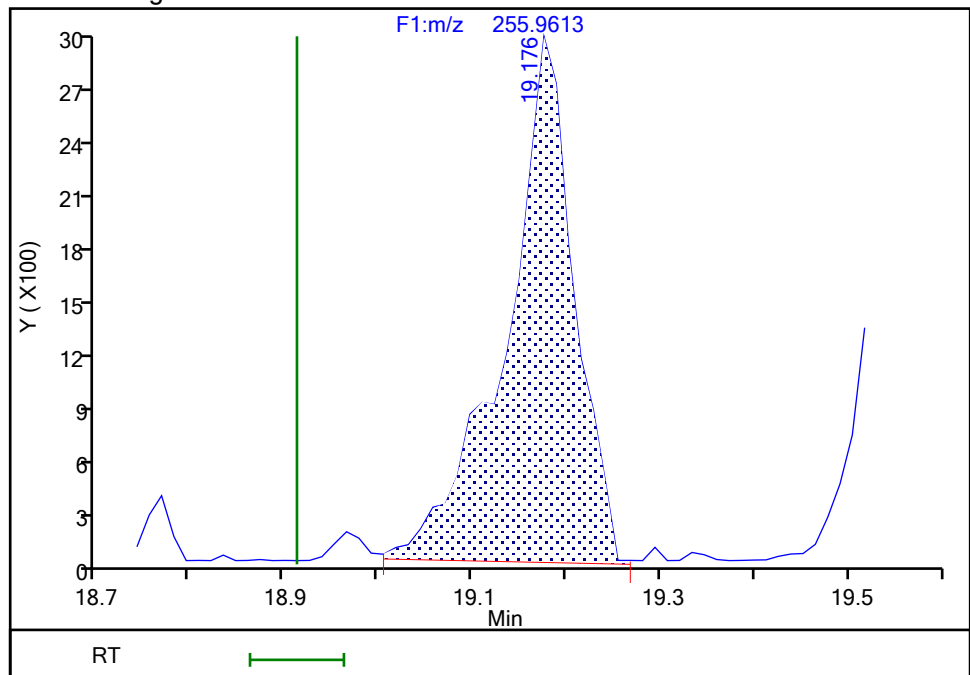
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.18
Area: 15072
Amount: 0.874538
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:48:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

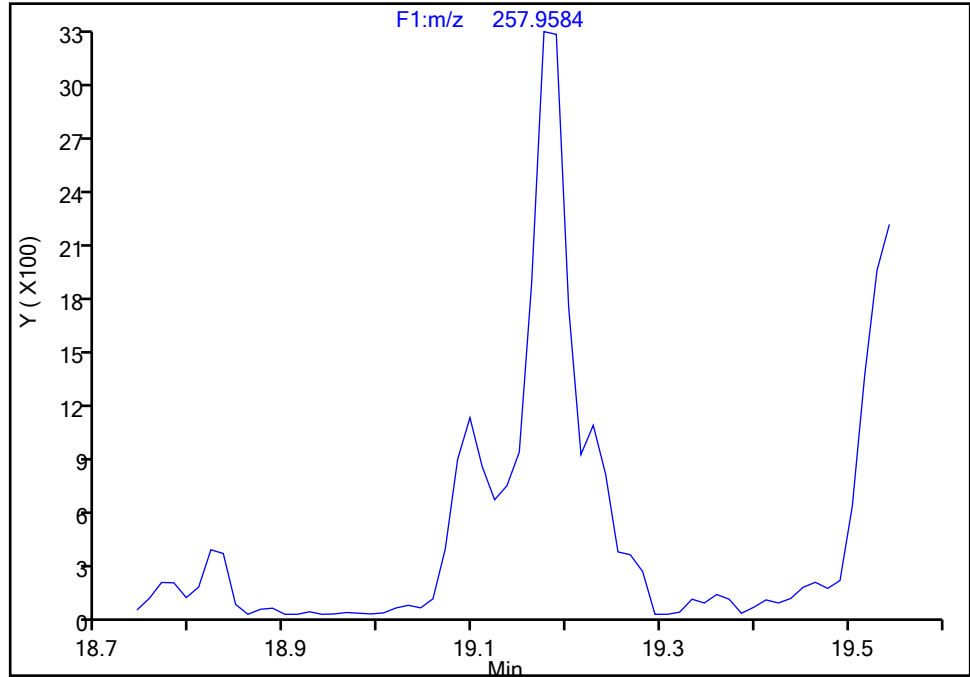
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

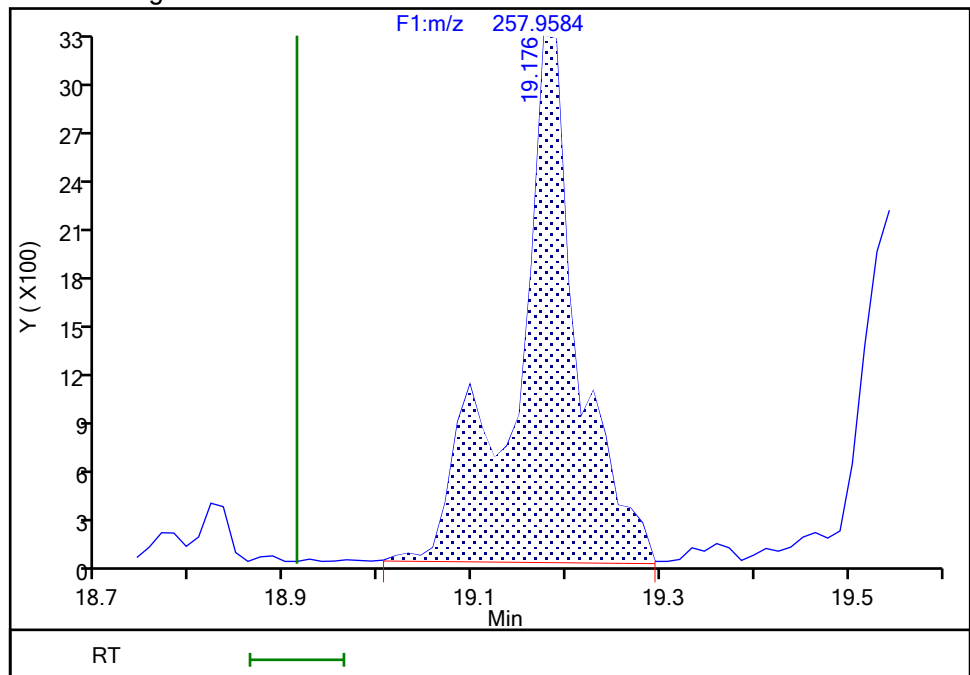
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.18
Area: 15268
Amount: 0.874538
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:48:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1277 of 3050

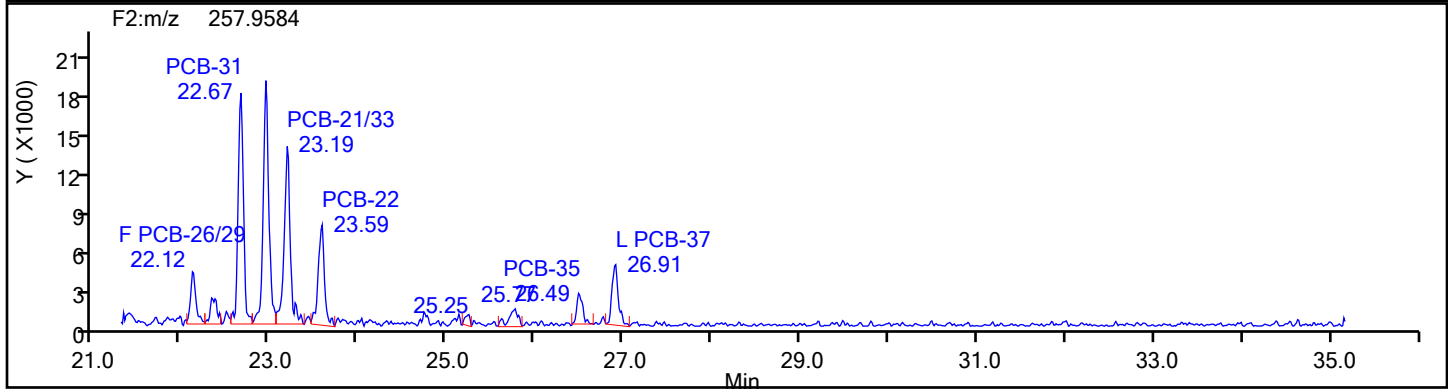
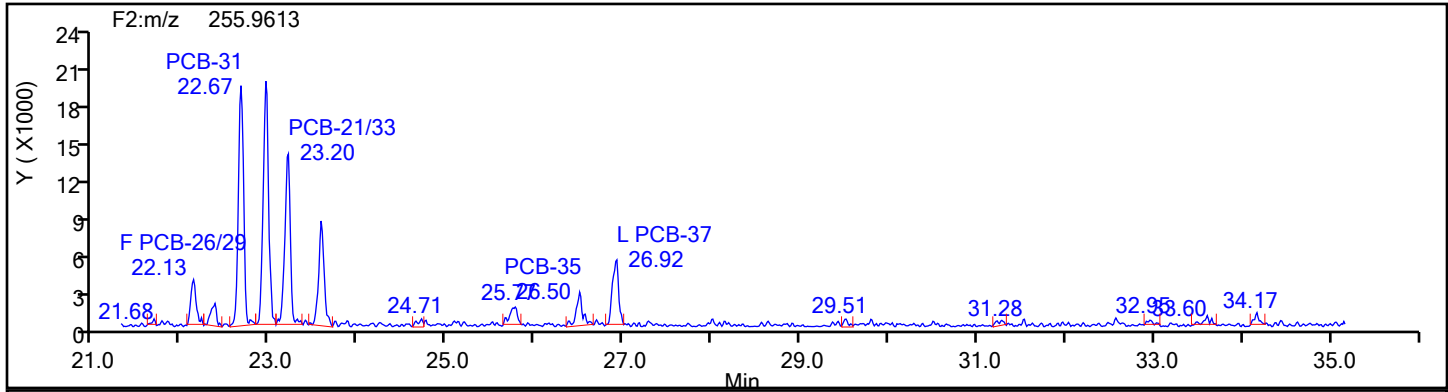
BASFWC-McIntosh-009278

9/6/2024

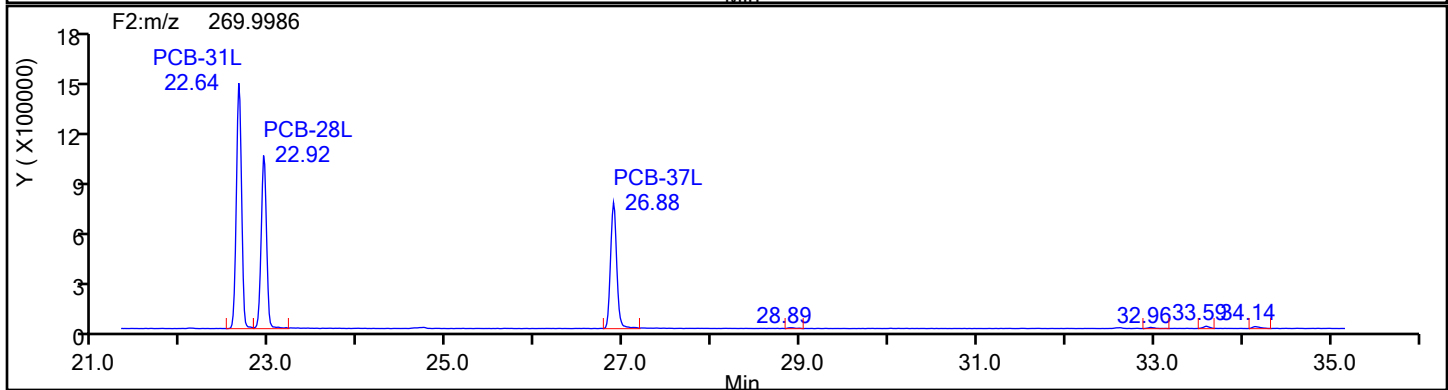
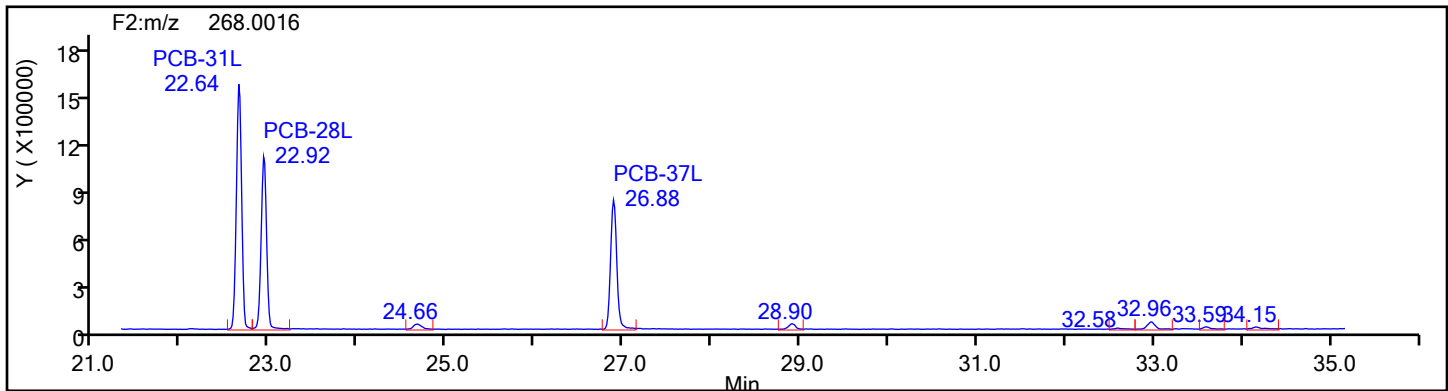
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

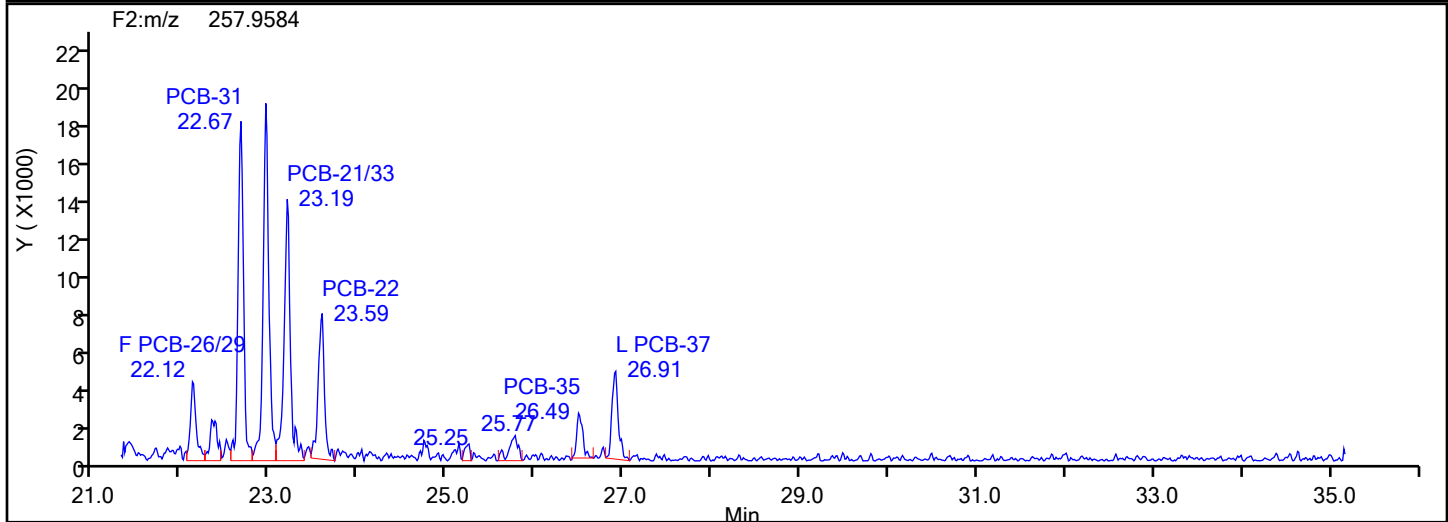
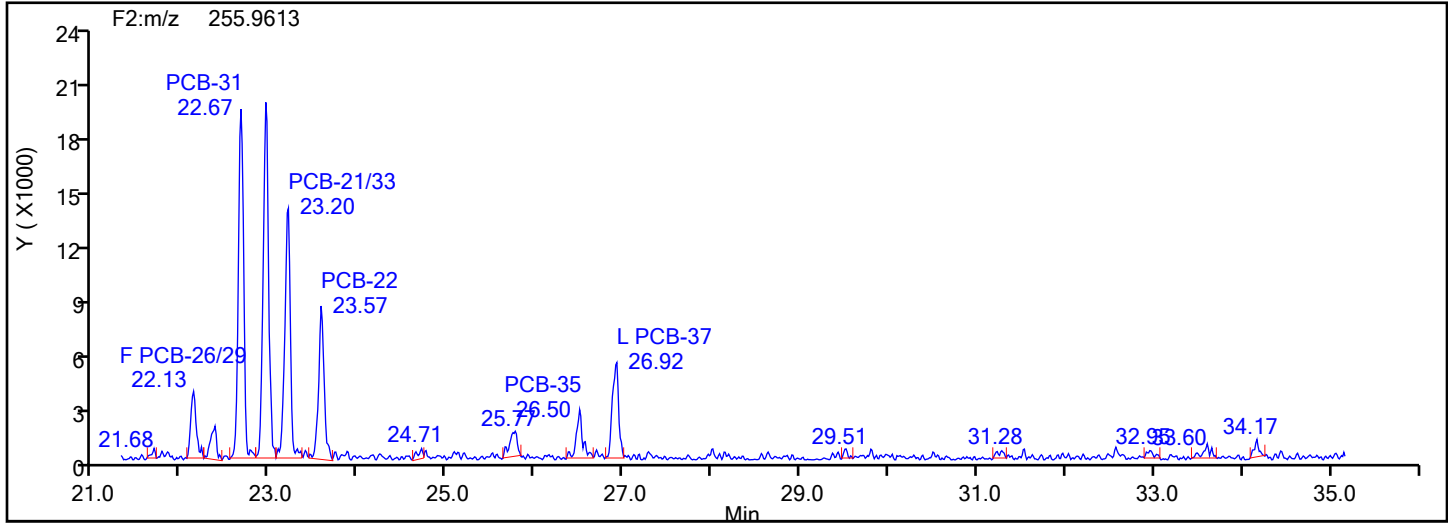


TriPCB F2 Standards

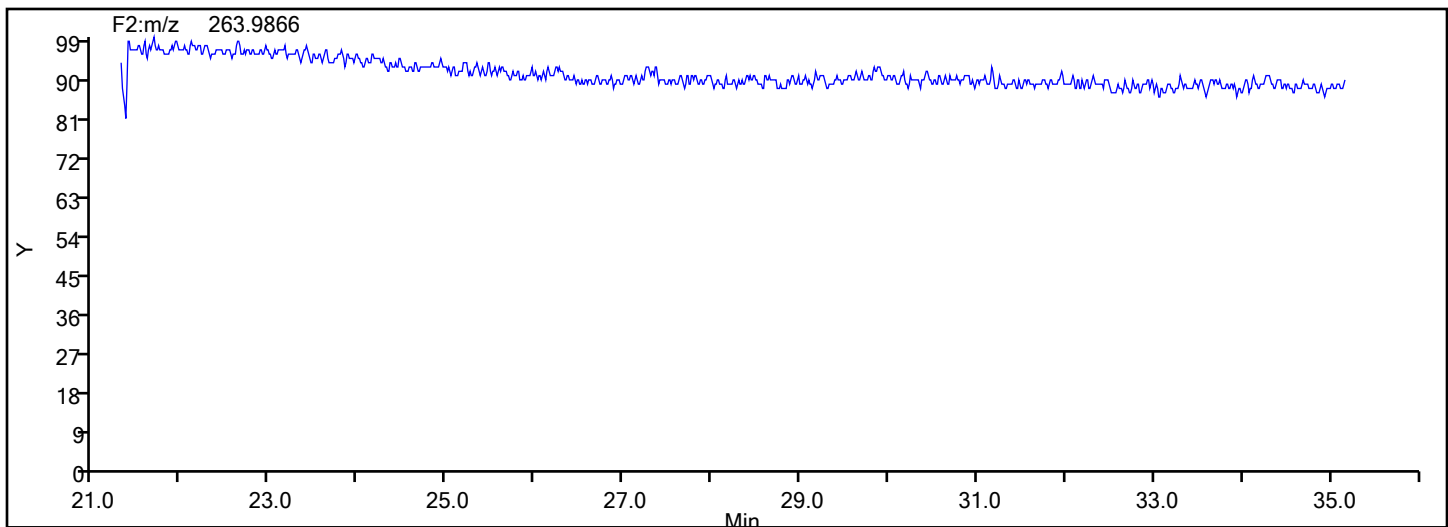


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

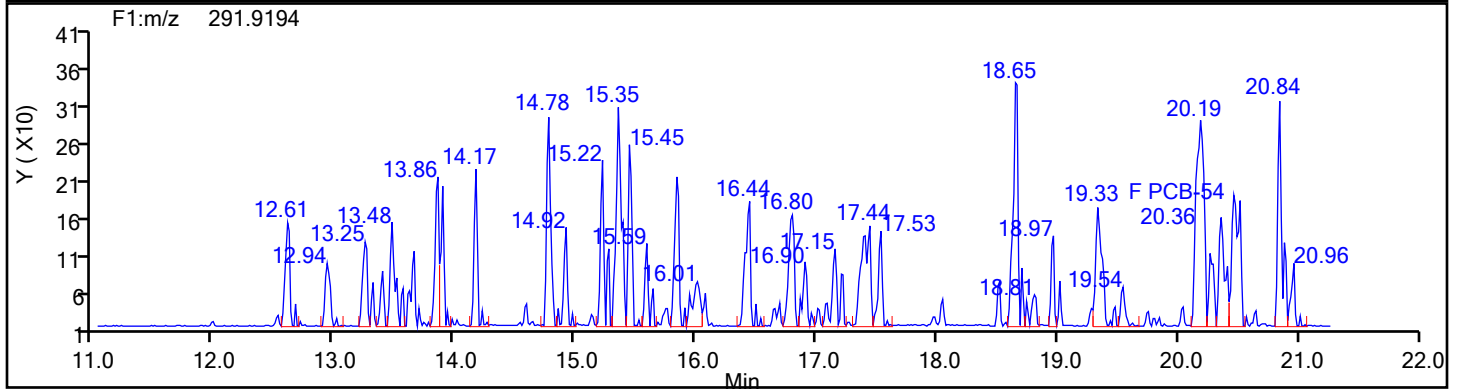
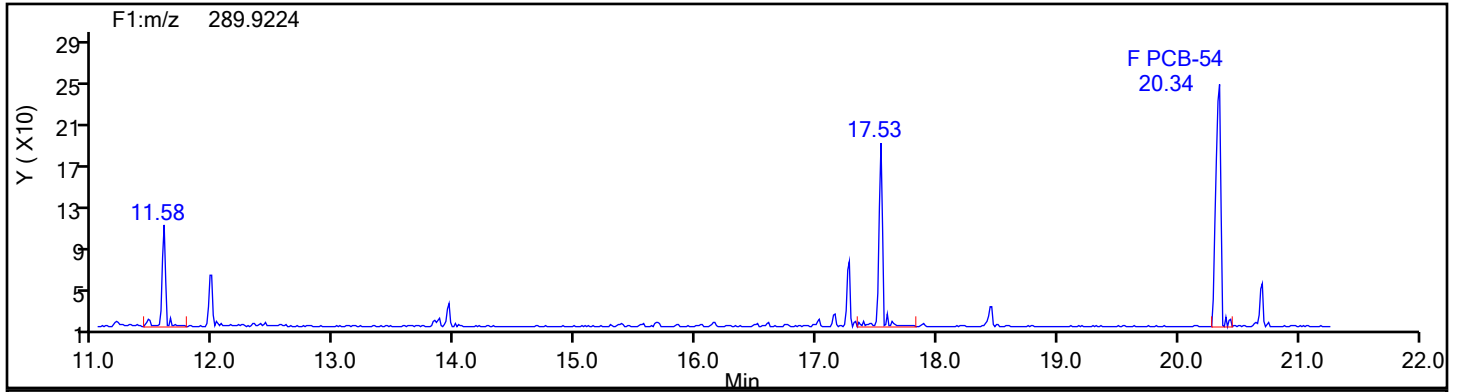


TriPCB F2 Lock Mass

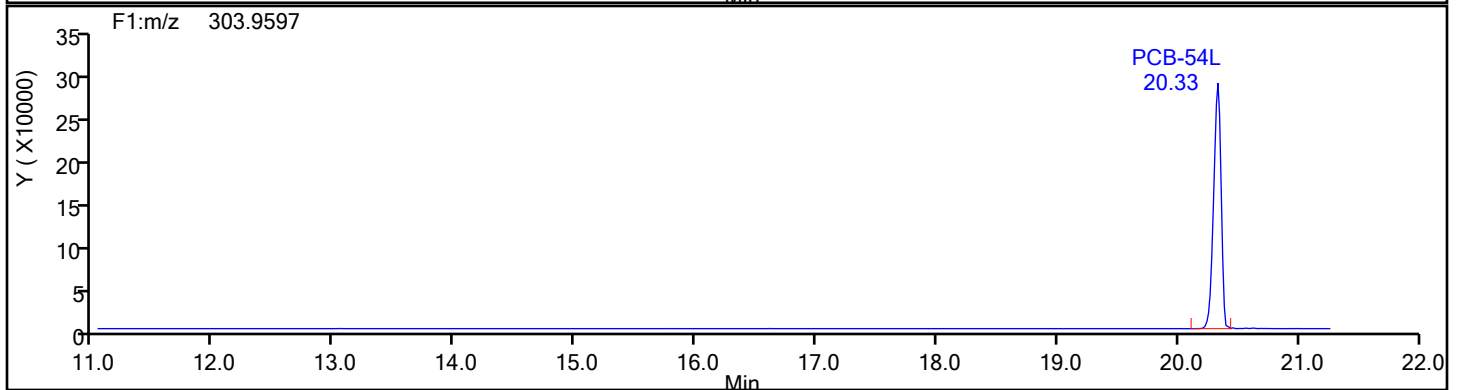
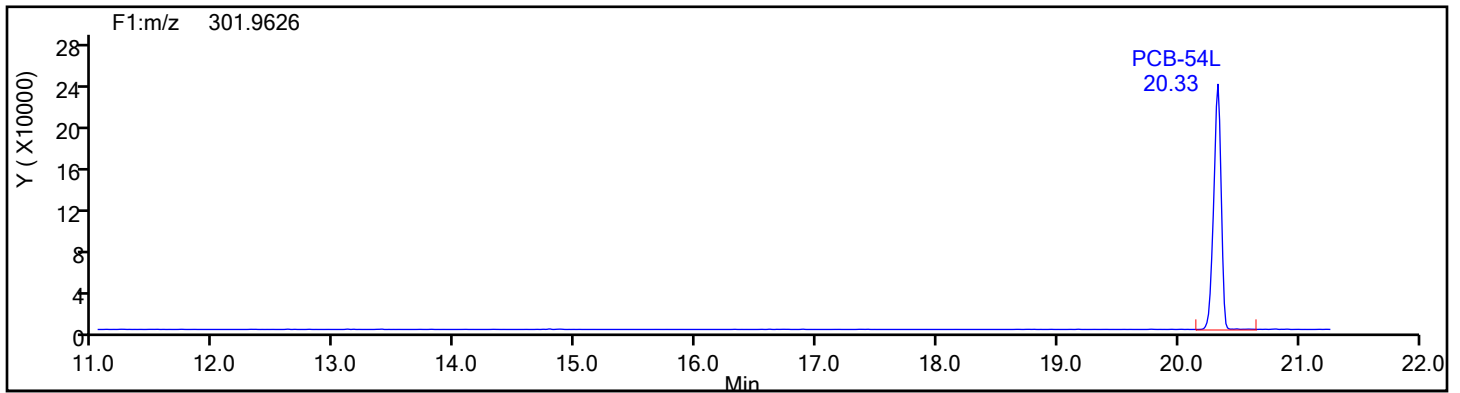


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

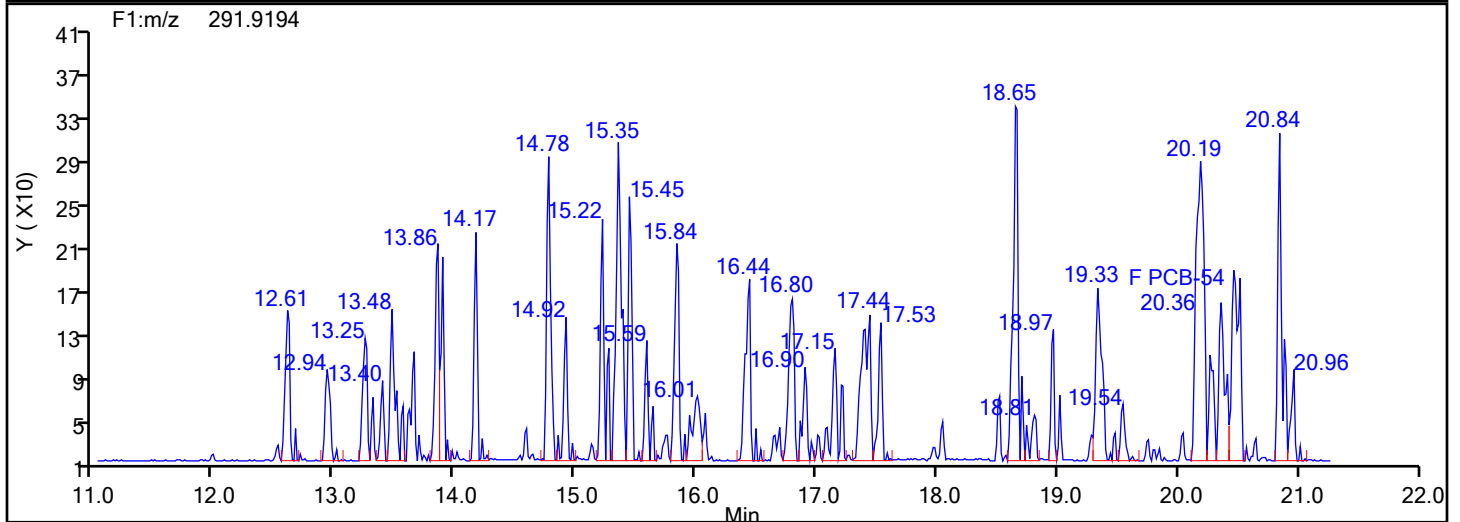
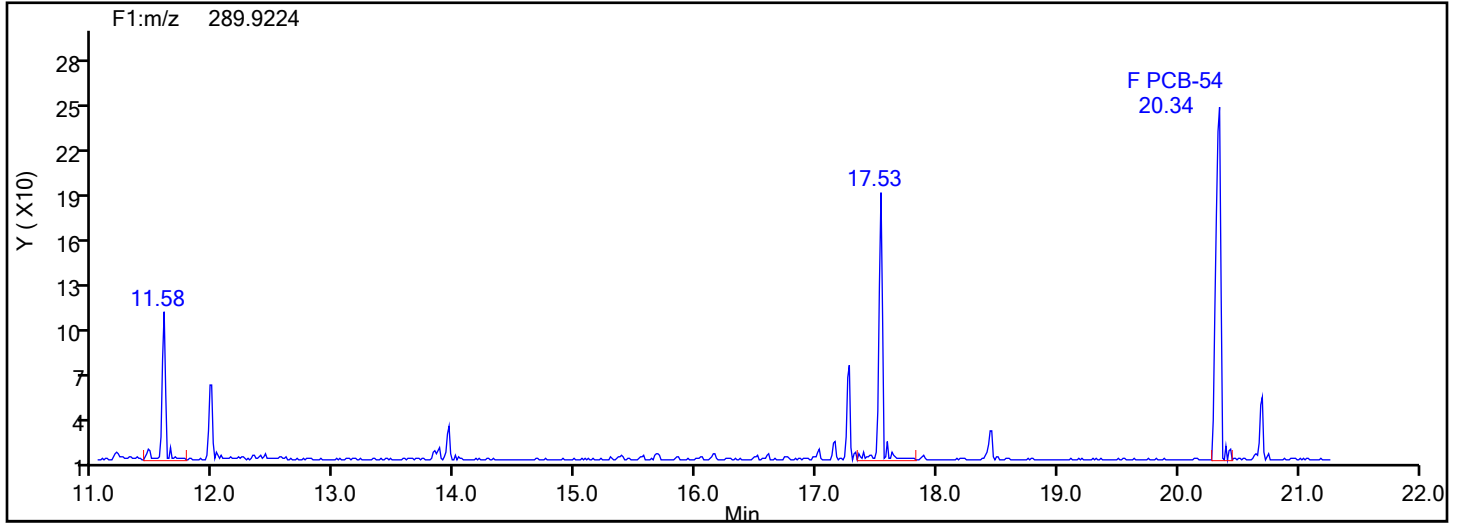


TePCB F1 Standards

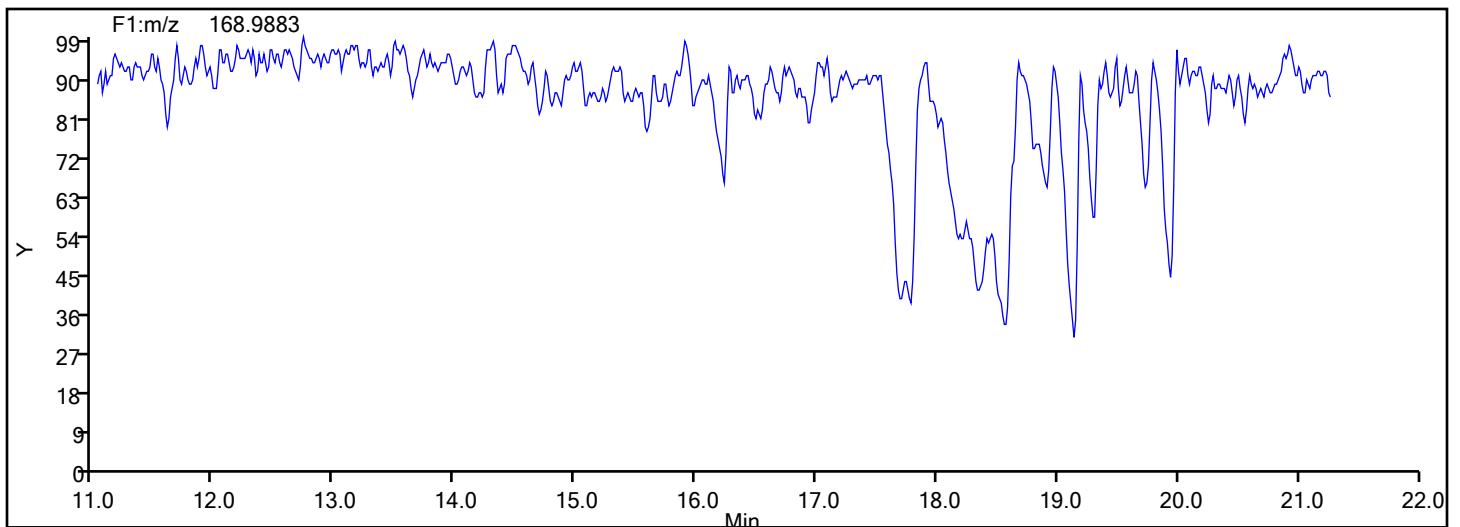


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

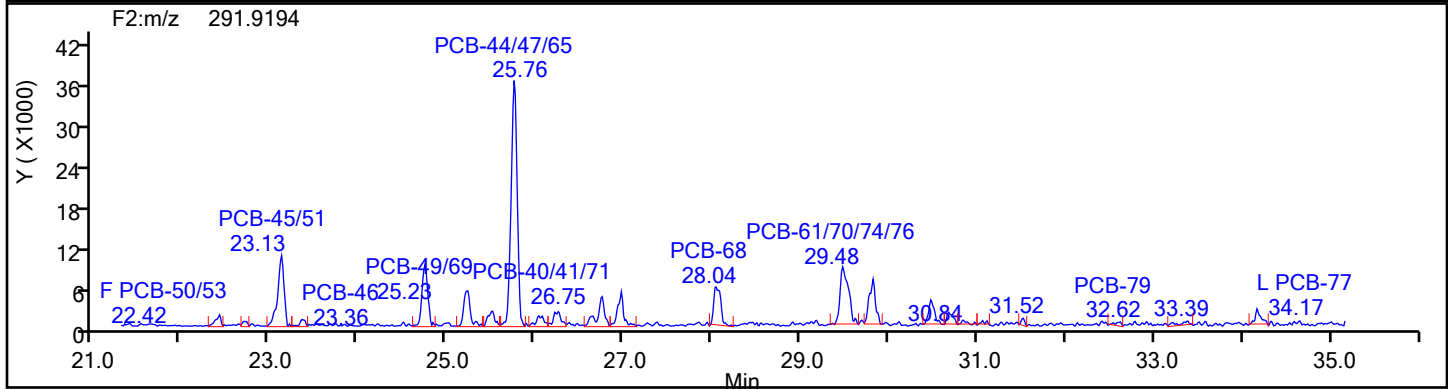
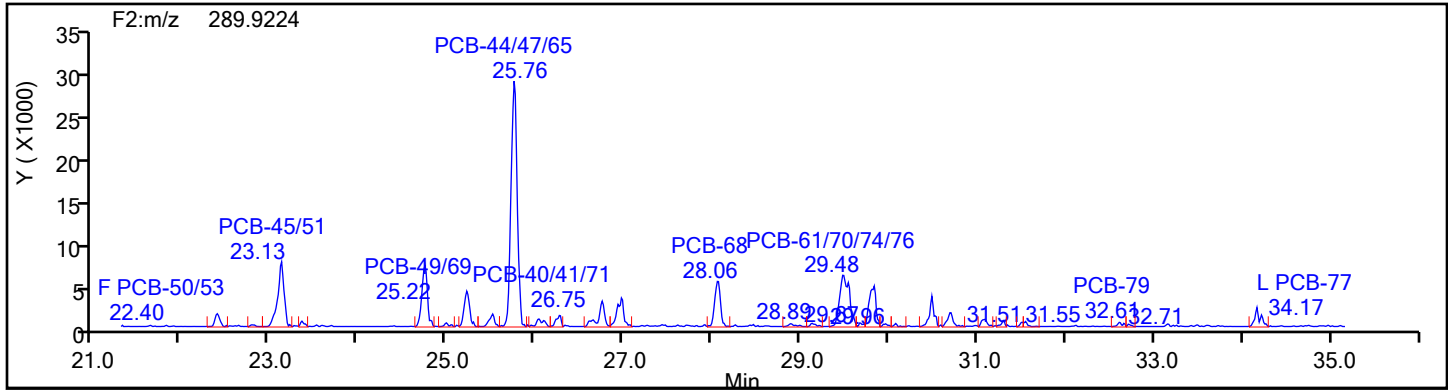


TePCB F1 Lock Mass

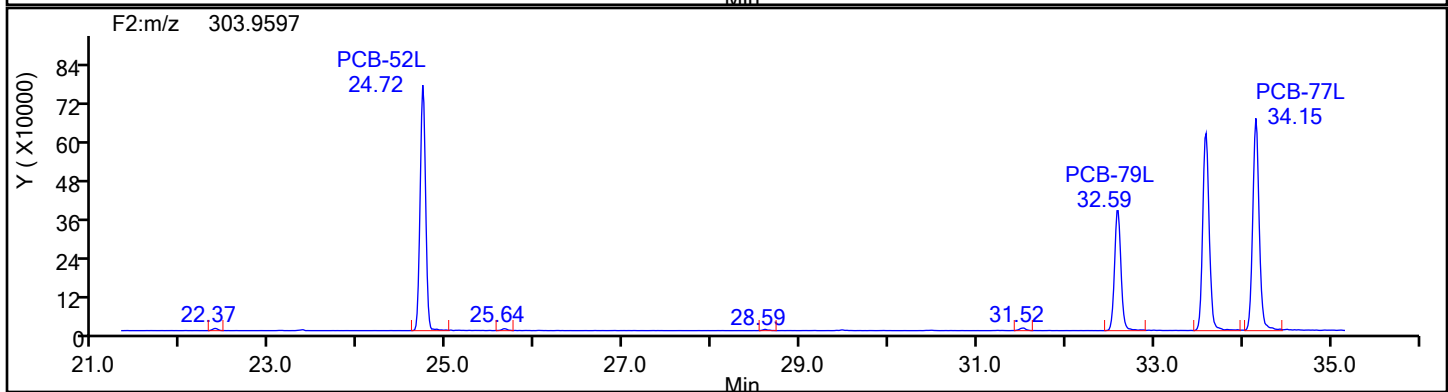
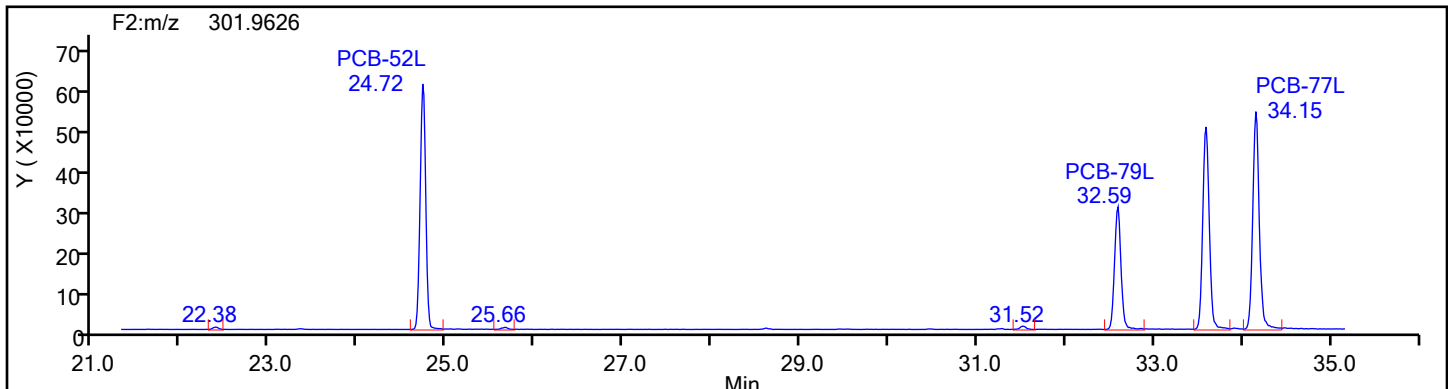


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

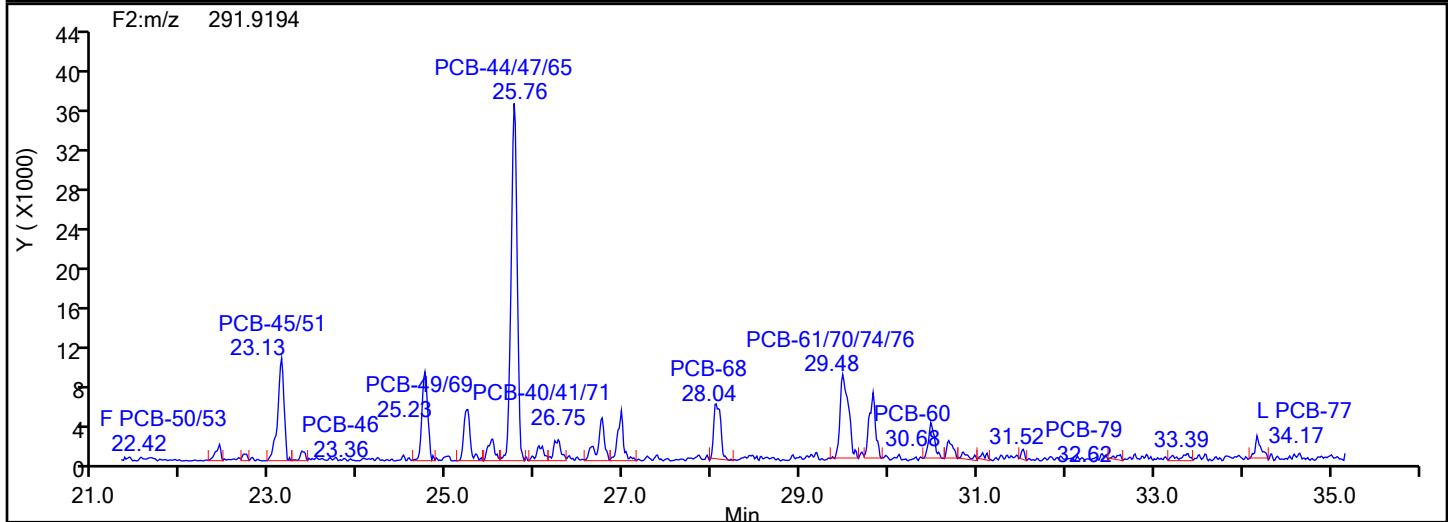
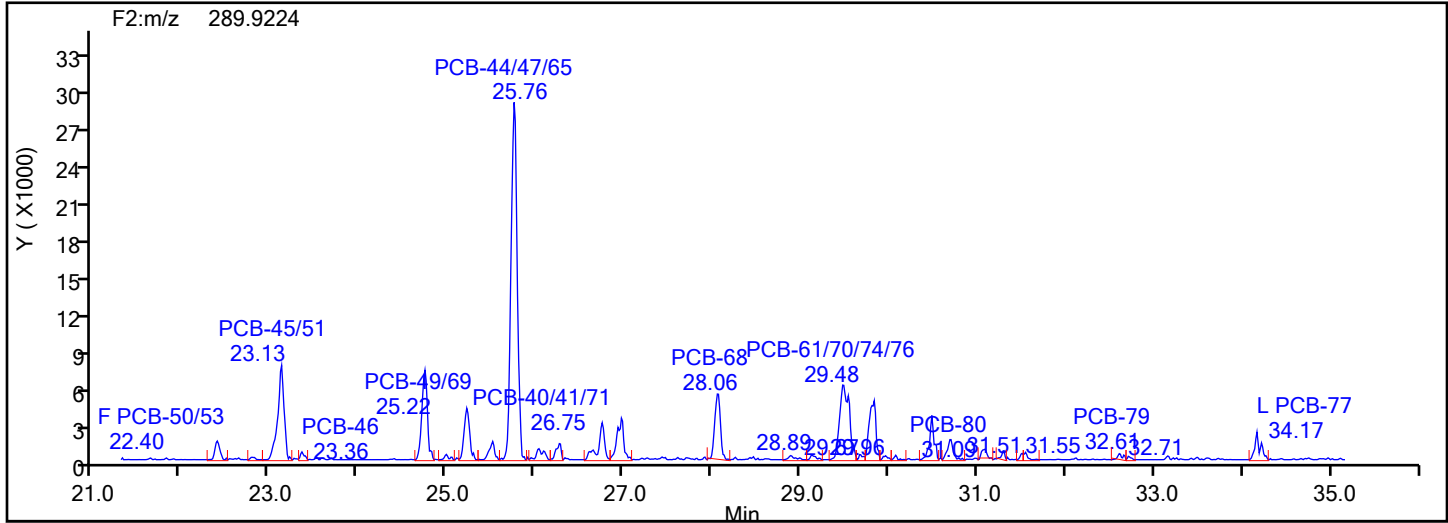


TePCB F2 Standards

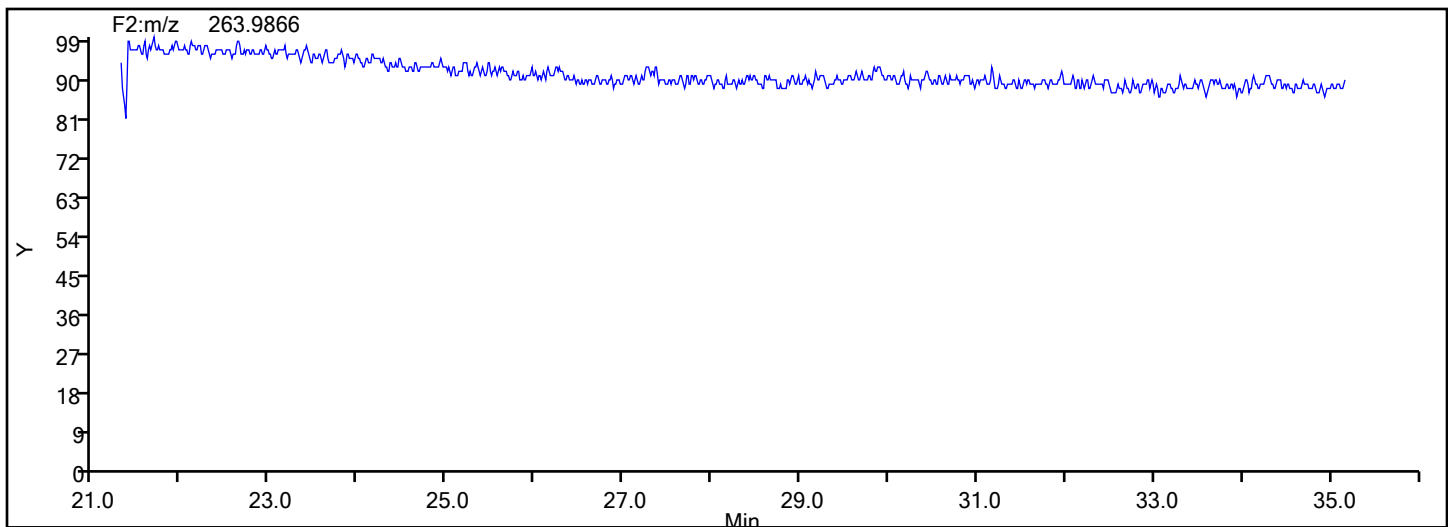


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

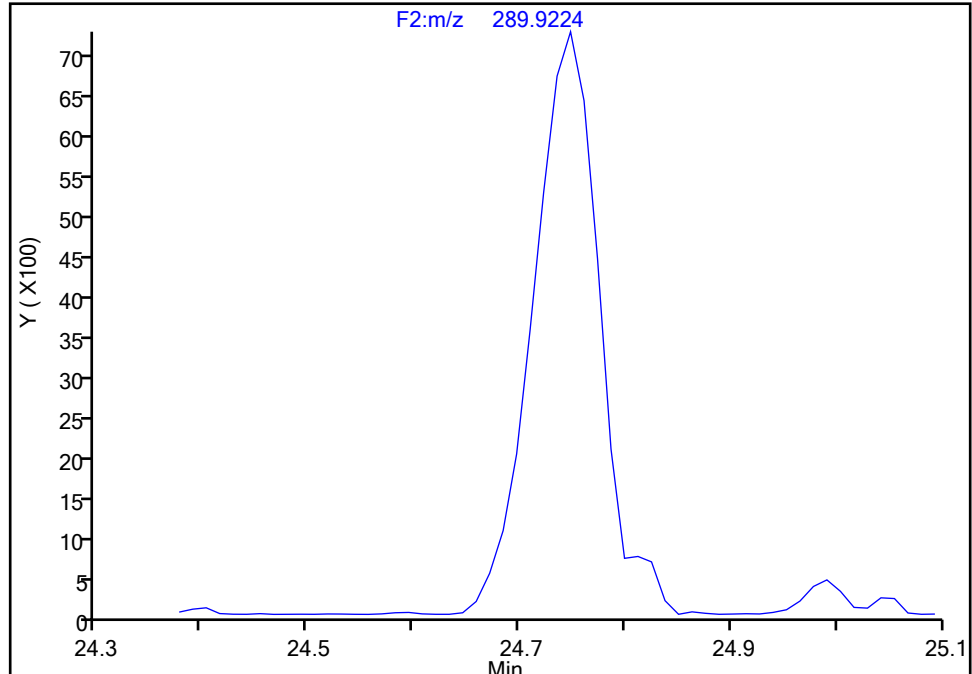
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

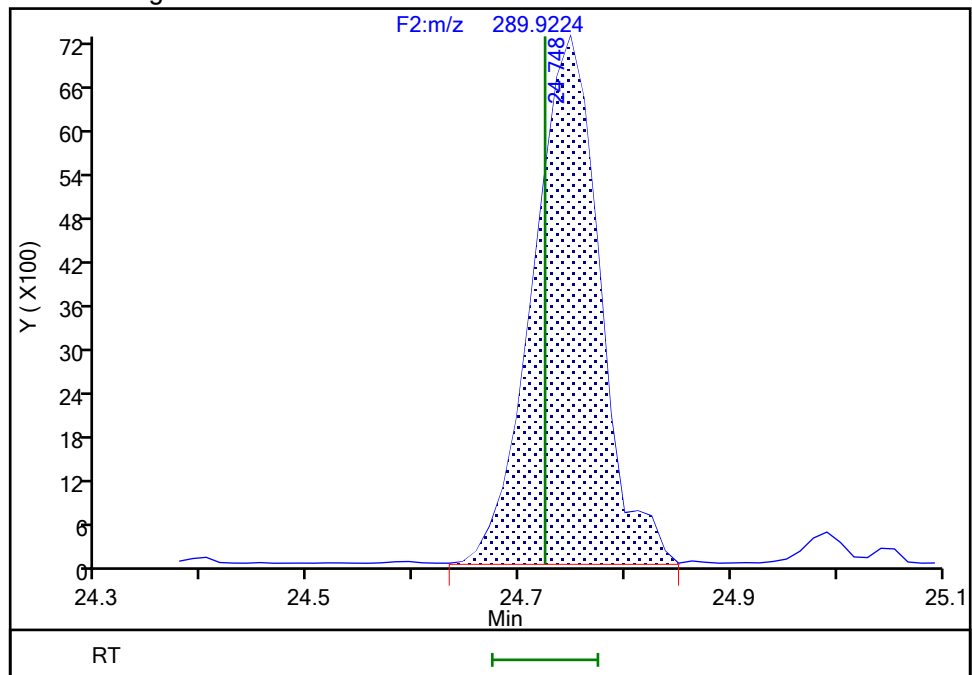
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.75
Area: 31535
Amount: 1.311284
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:50:03 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

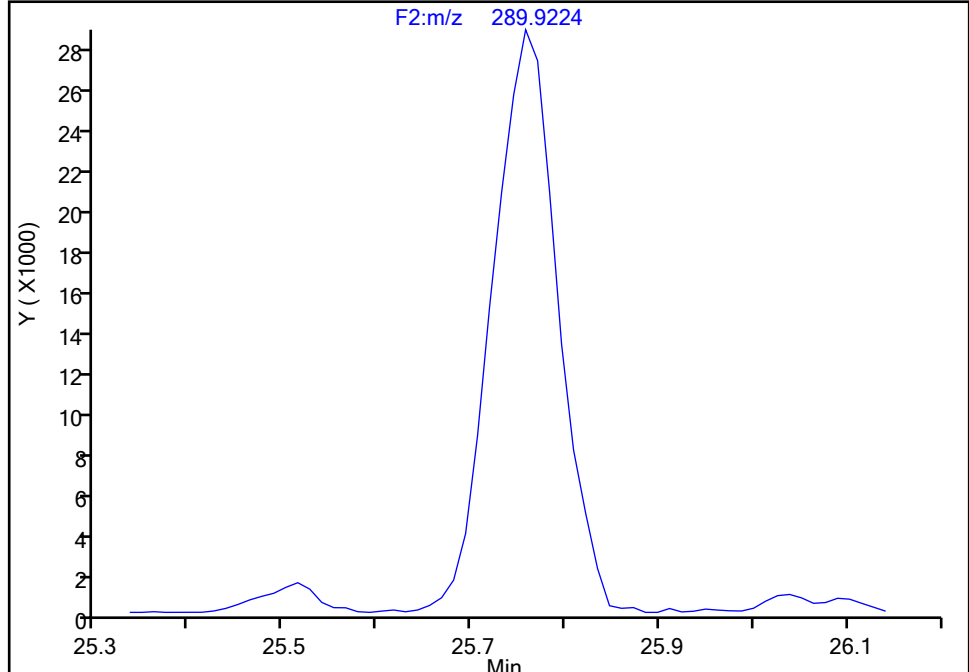
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

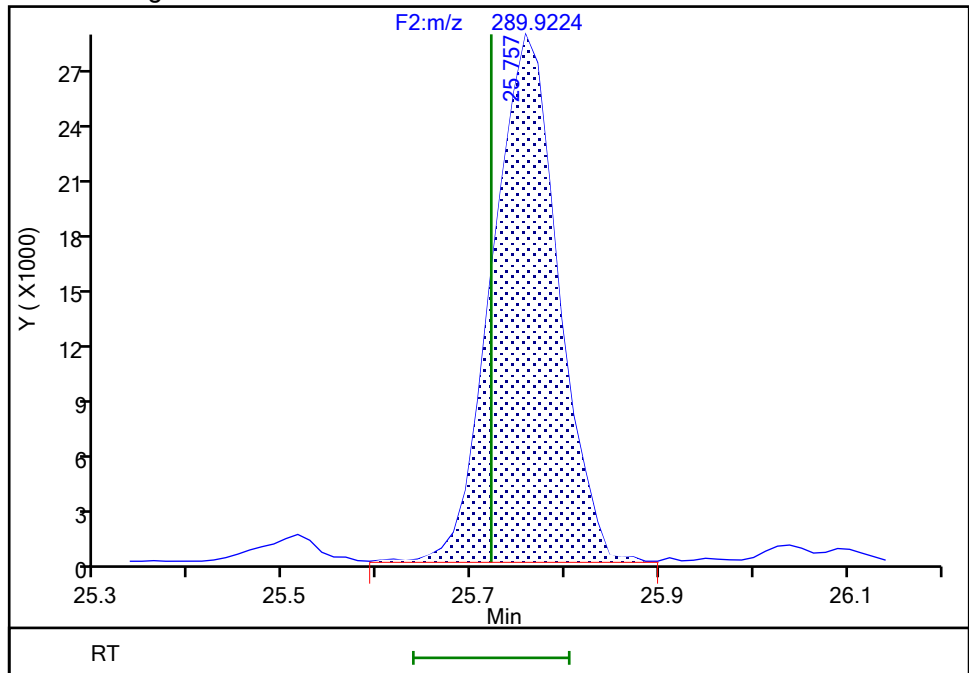
Not Detected
Expected RT: 25.72

Processing Integration Results



RT: 25.76
Area: 139399
Amount: 5.384154
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:50:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

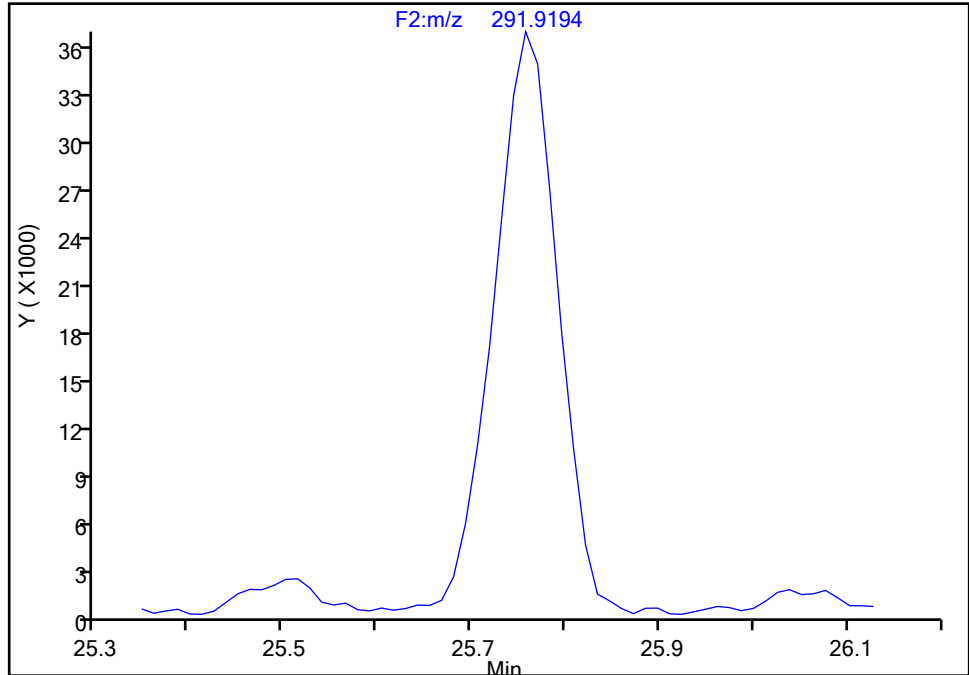
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 2

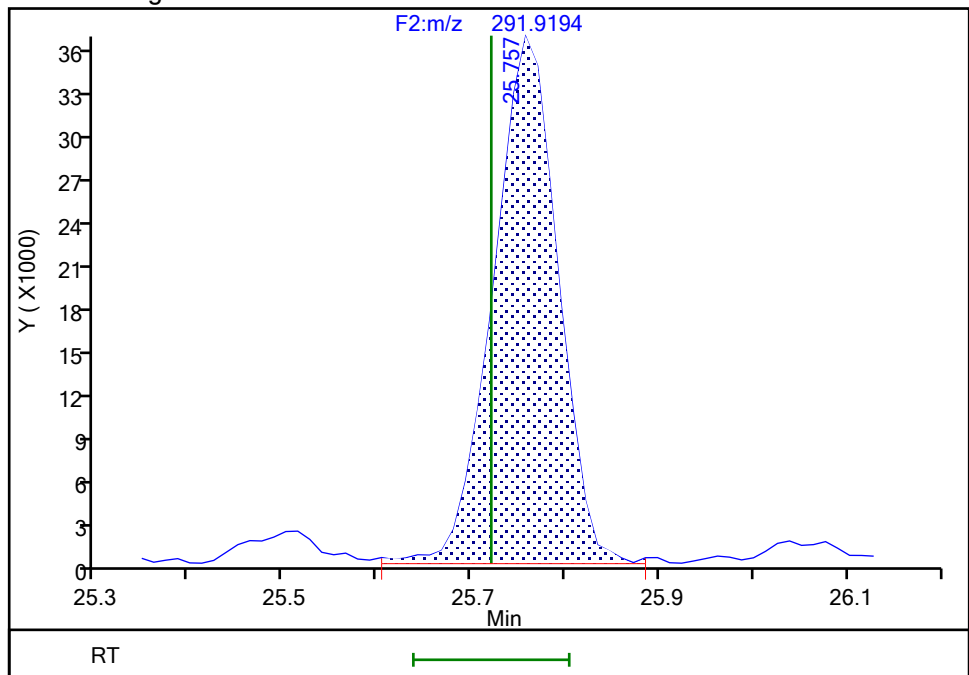
Not Detected
Expected RT: 25.72

Processing Integration Results



RT: 25.76
Area: 173953
Amount: 5.384154
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:50:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1286 of 3050

BASFWHC-McIntosh-009287

9/6/2024

4:11:20 PM

Eurofins Knoxville

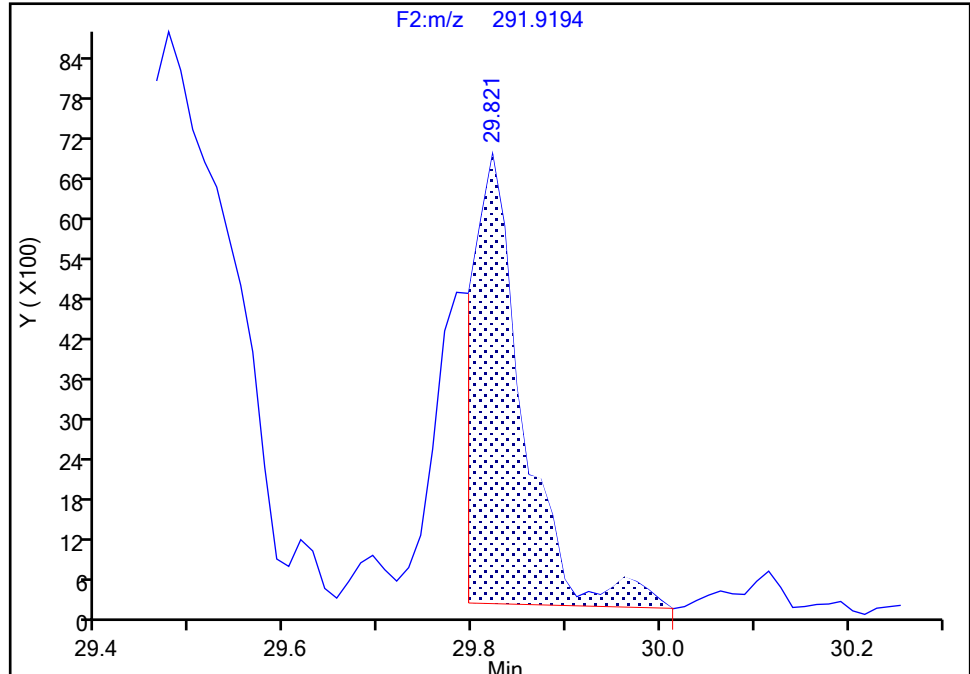
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-66, CAS: 32598-10-0

Signal: 2

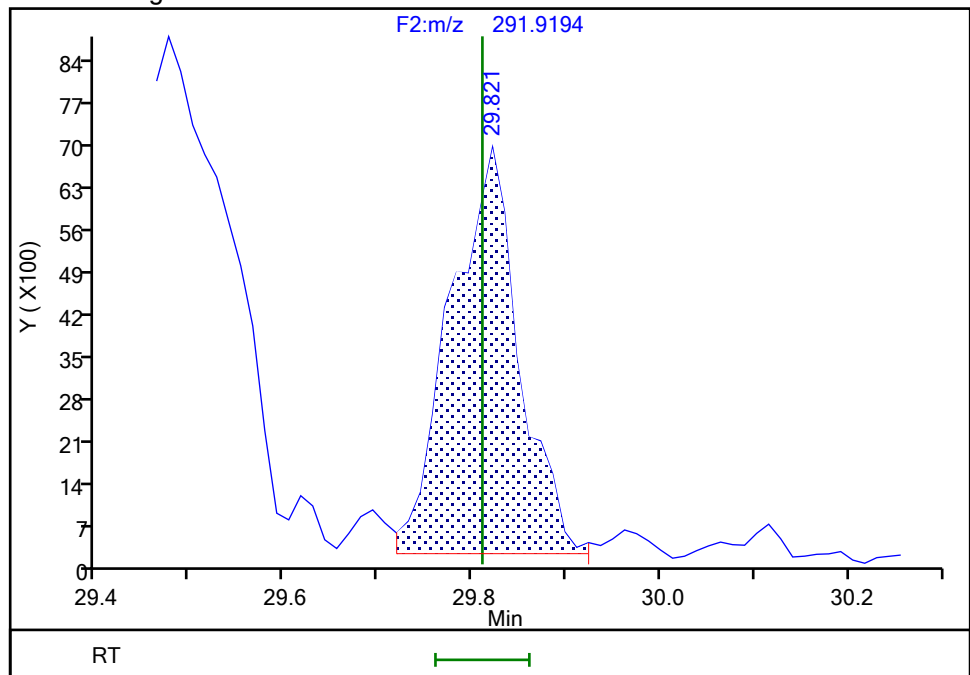
RT: 29.82
Area: 24198
Amount: 0.655758
Amount Units: pg/ul

Processing Integration Results



RT: 29.82
Area: 34137
Amount: 0.787832
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 21:52:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

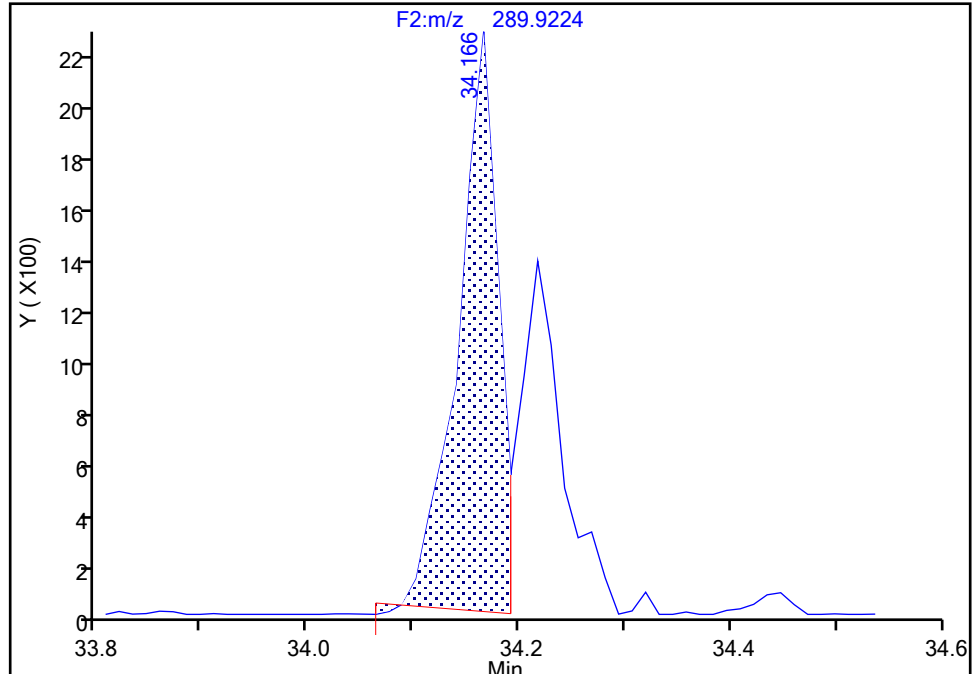
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 1

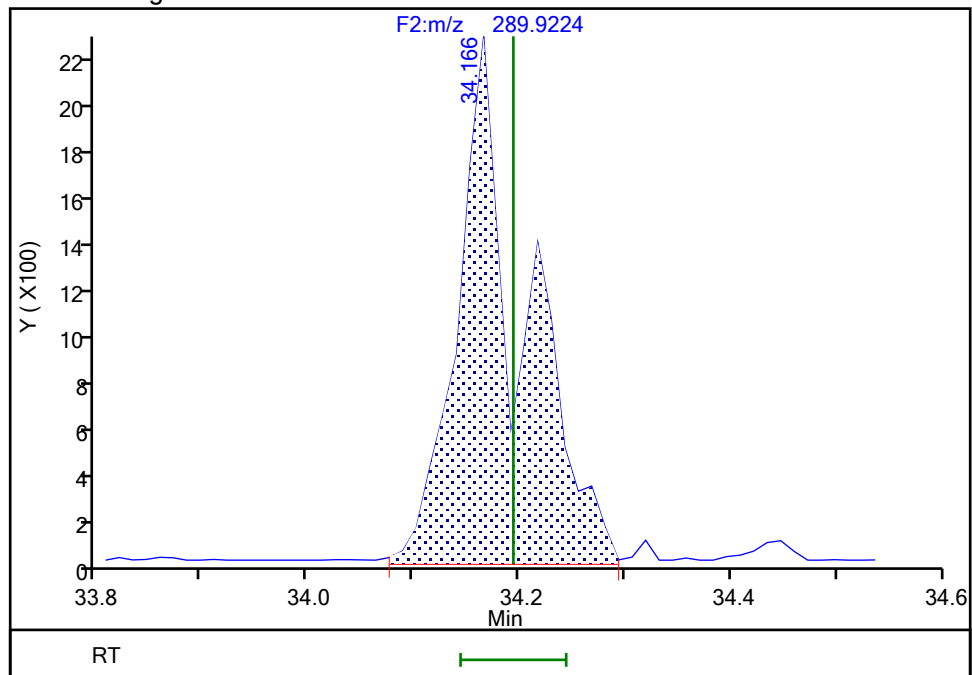
RT: 34.17
Area: 5648
Amount: 0.233510
Amount Units: pg/ul

Processing Integration Results



RT: 34.17
Area: 9601
Amount: 0.292447
Amount Units: pg/ul

Manual Integration Results



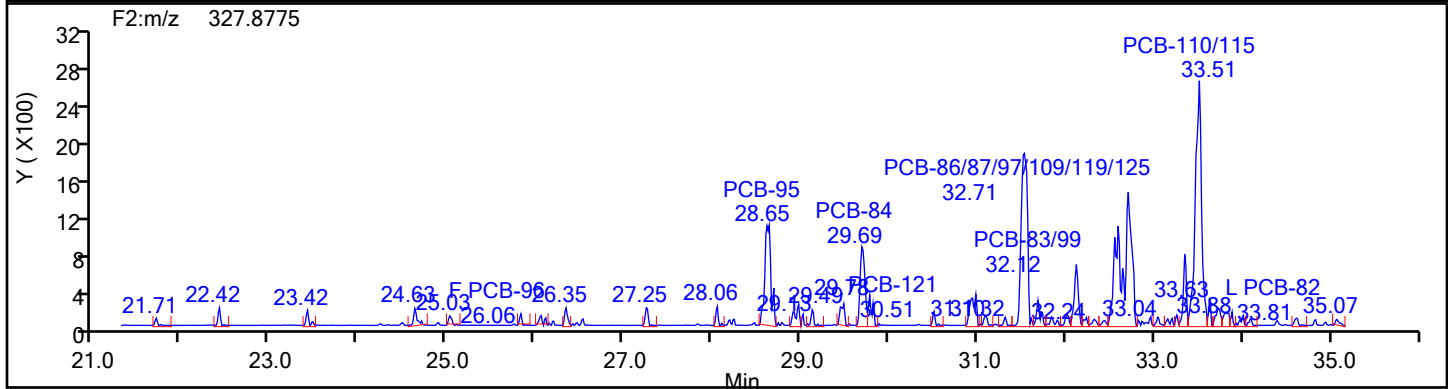
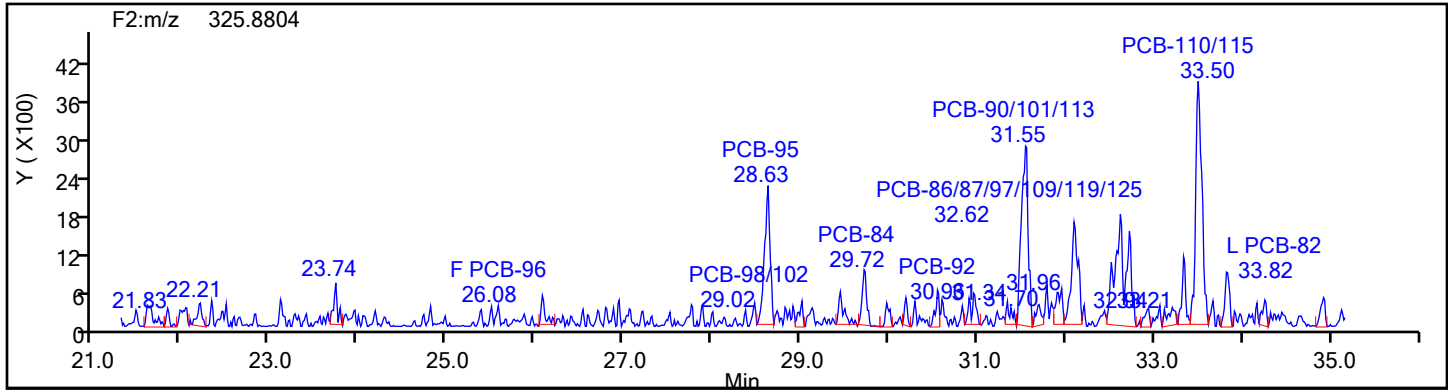
Reviewer: V4XA, 16-Jul-2024 22:01:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

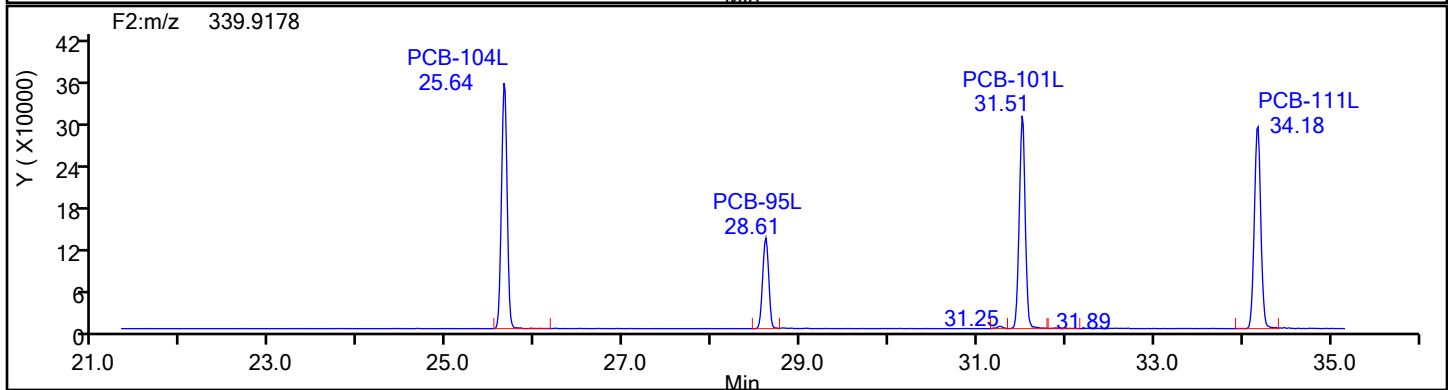
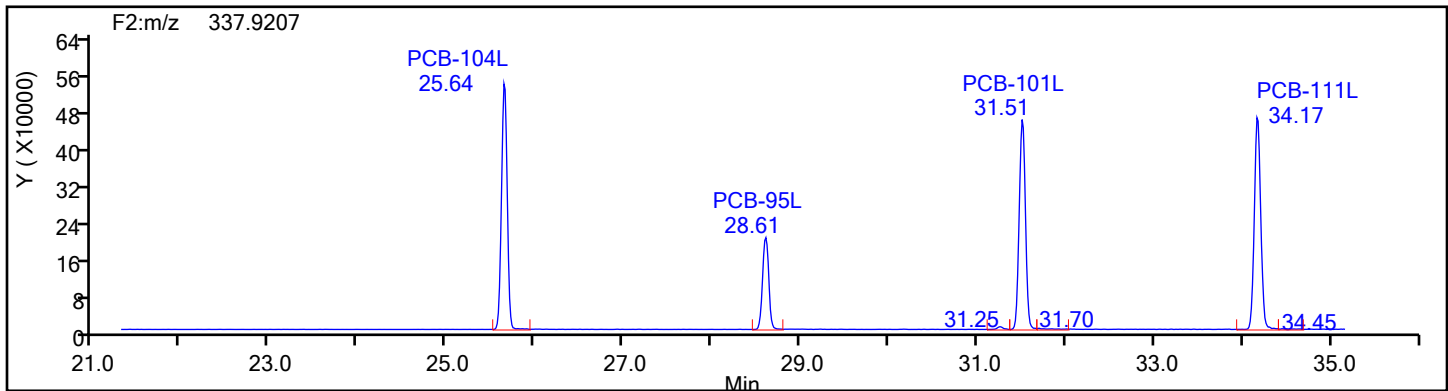
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

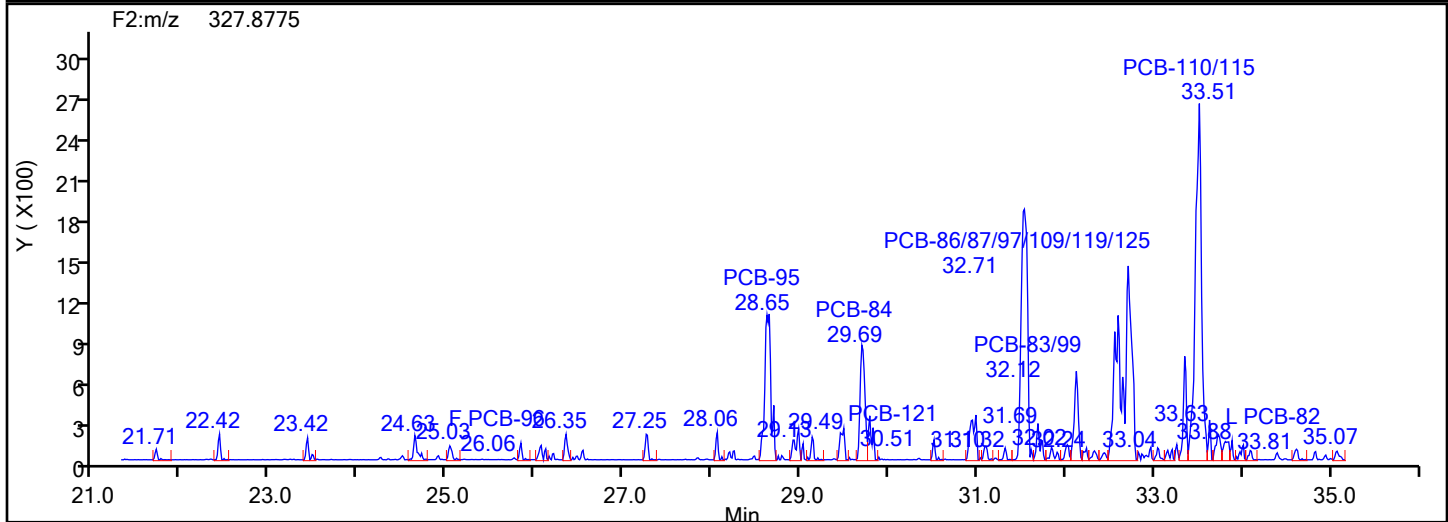
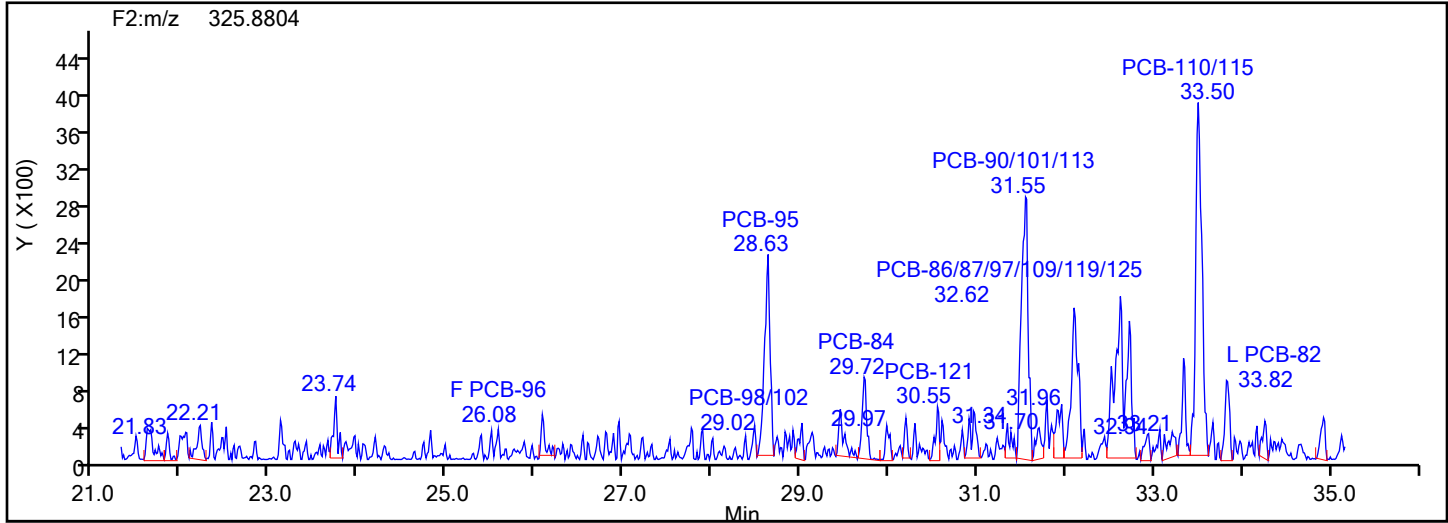


PePCB F2 Standards

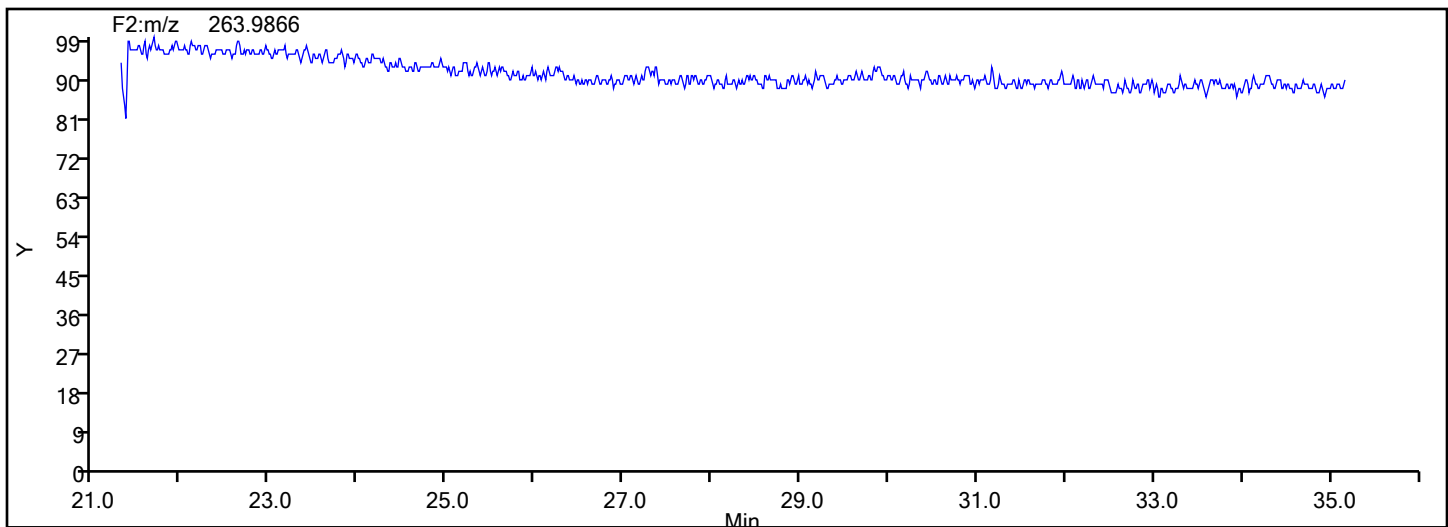


Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

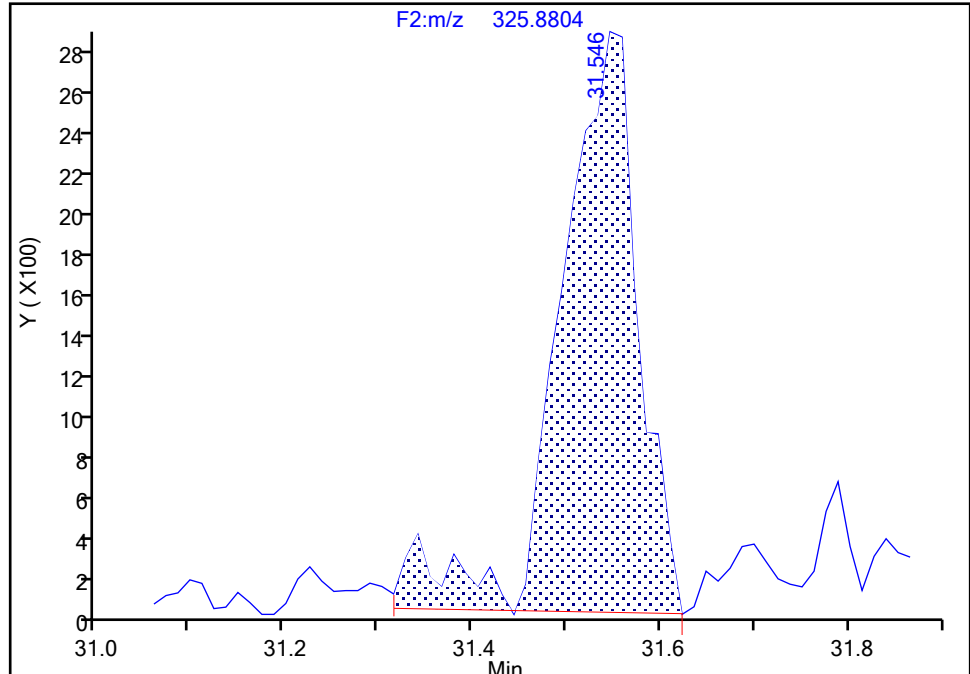
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

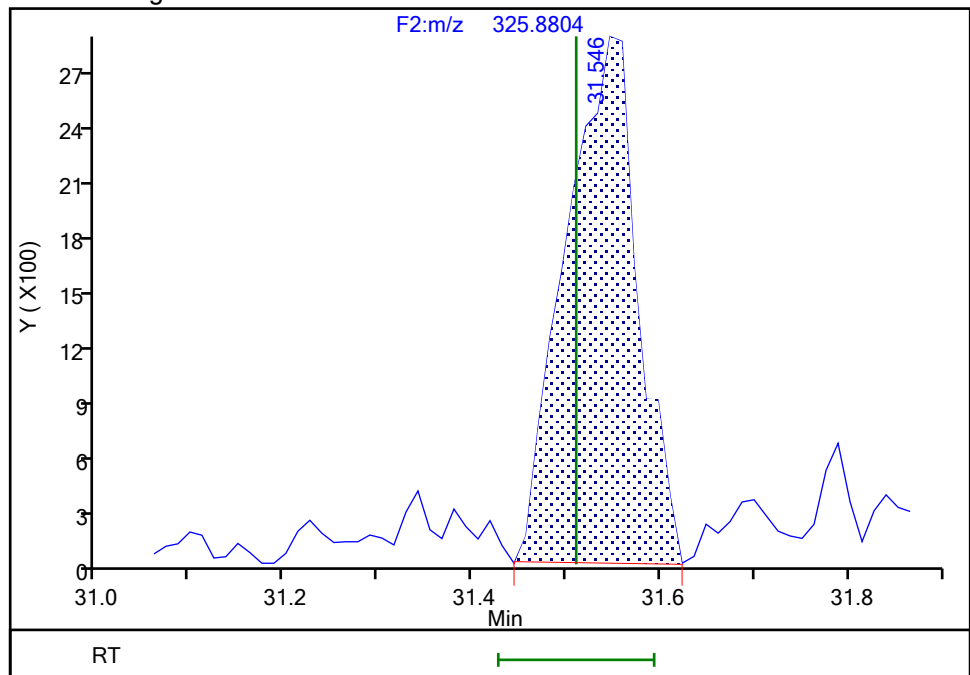
RT: 31.55
Area: 16436
Amount: 0.663257
Amount Units: pg/ul

Processing Integration Results



RT: 31.55
Area: 15069
Amount: 0.627618
Amount Units: pg/ul

Manual Integration Results



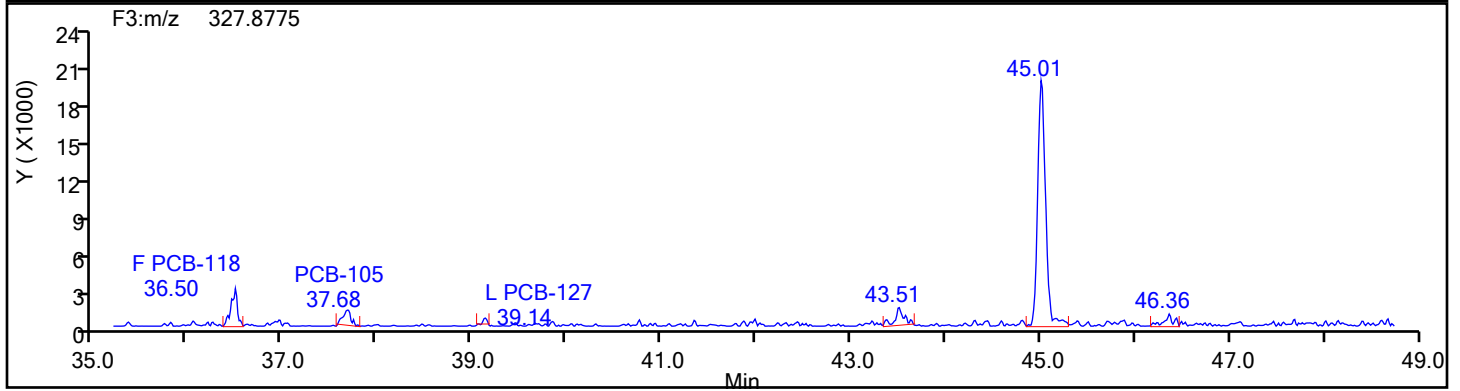
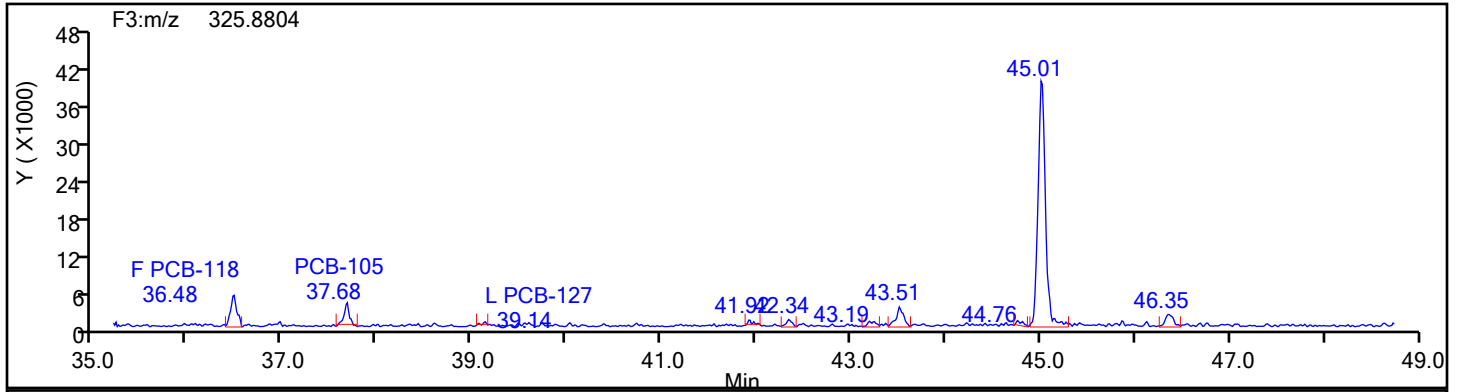
Reviewer: V4XA, 16-Jul-2024 22:02:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

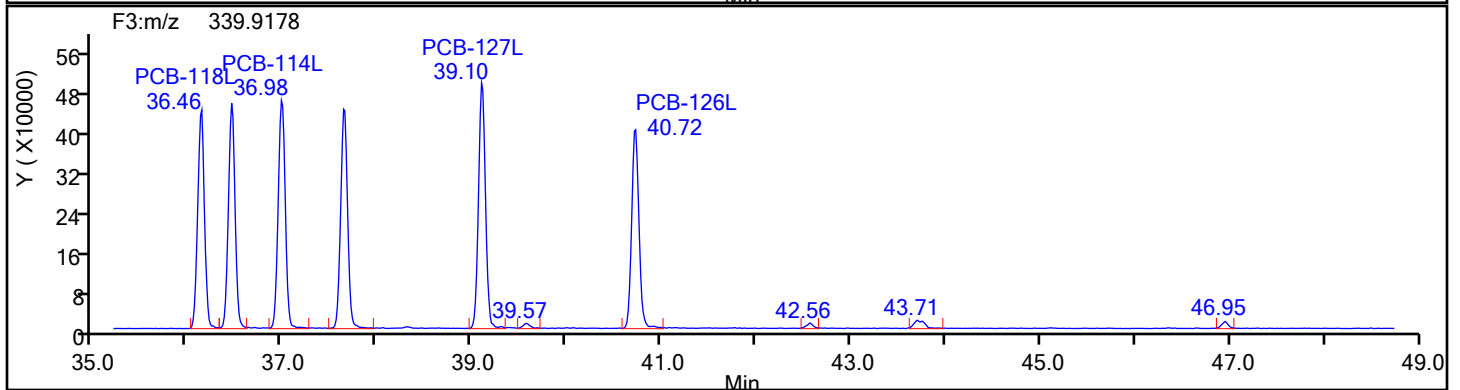
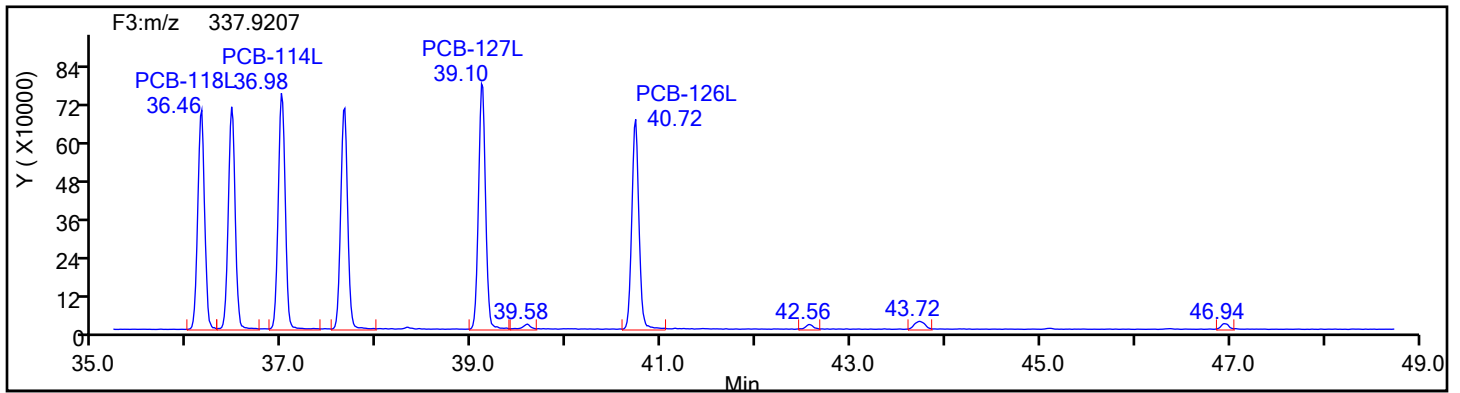
Audit Reason: Split Peak

Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

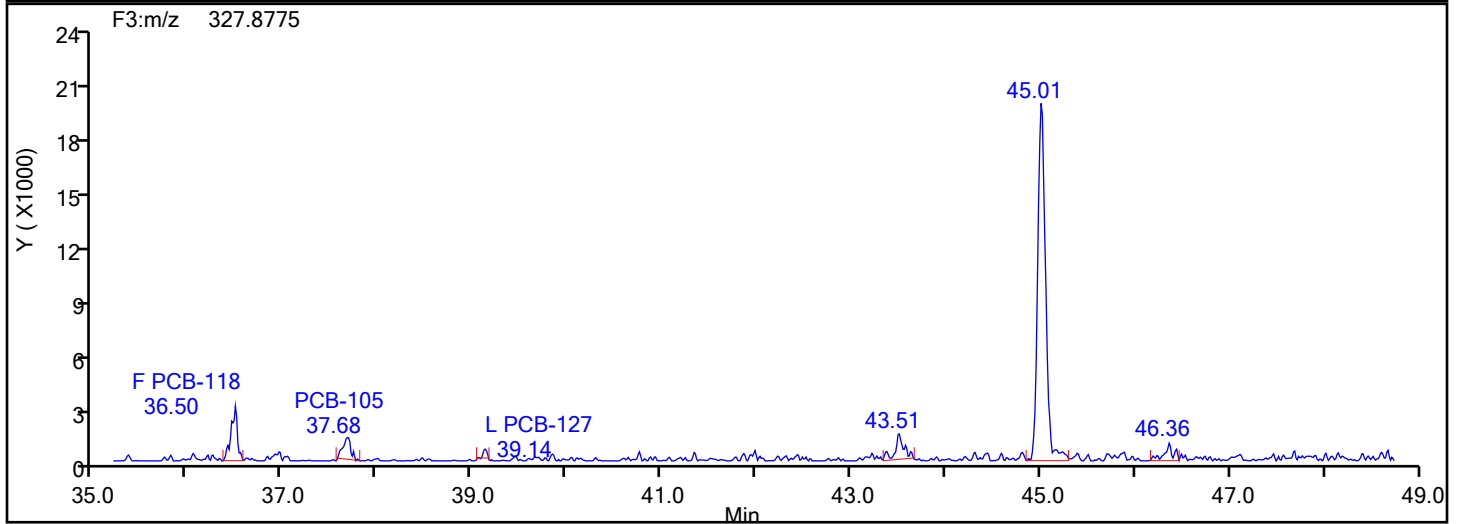
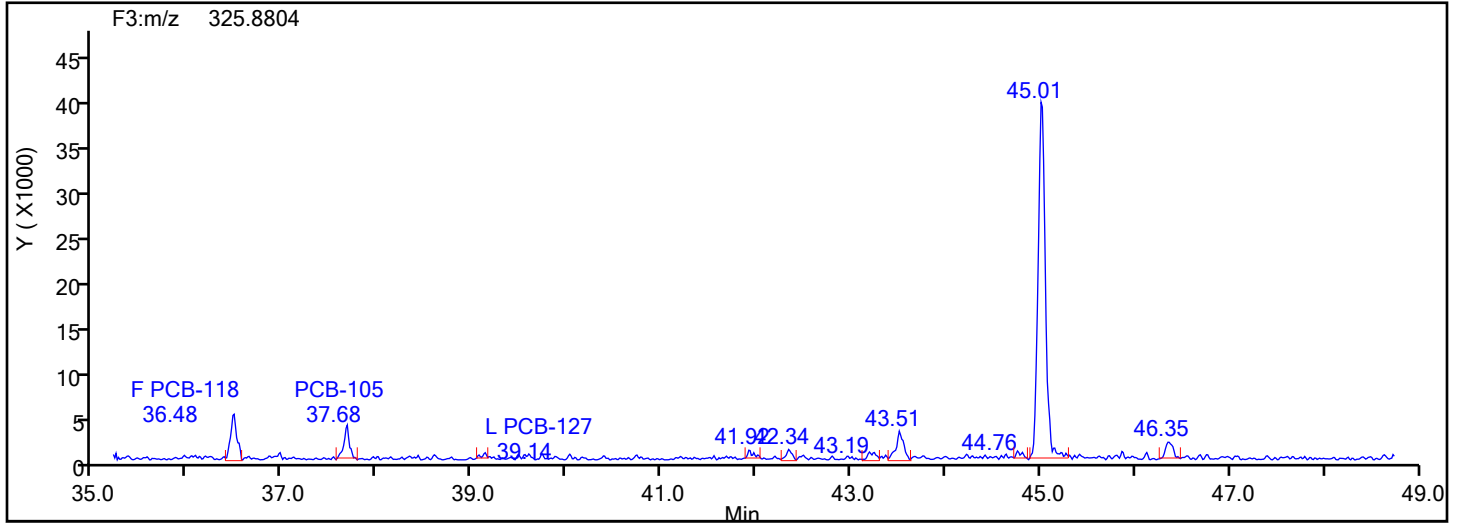


PePCB F3 Standards

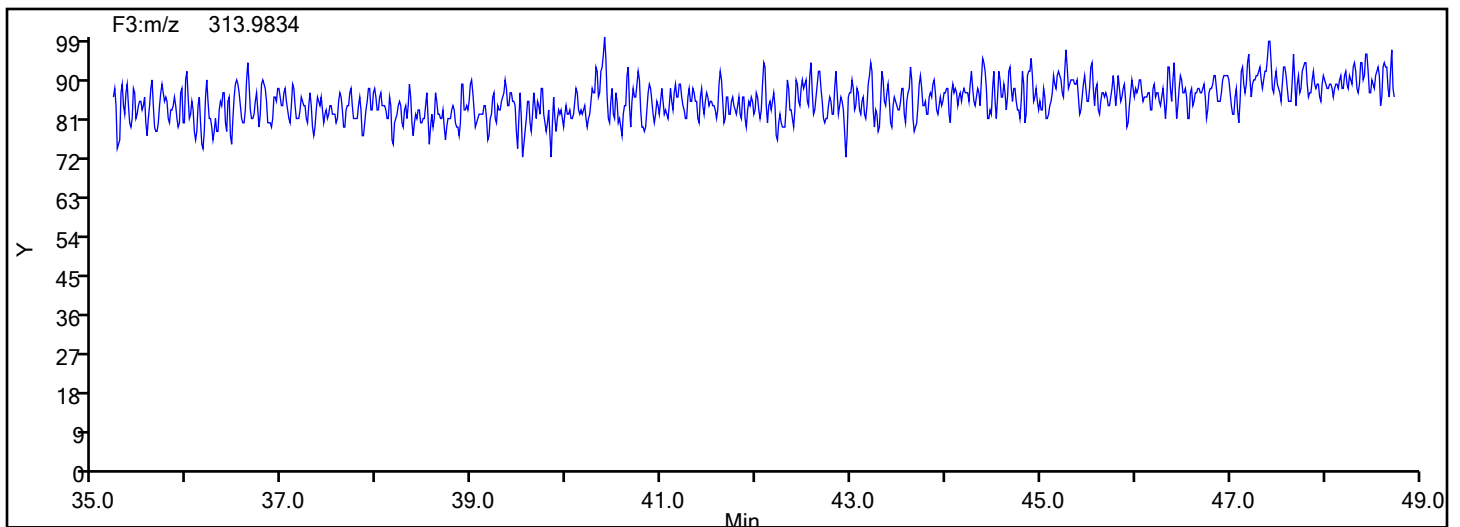


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

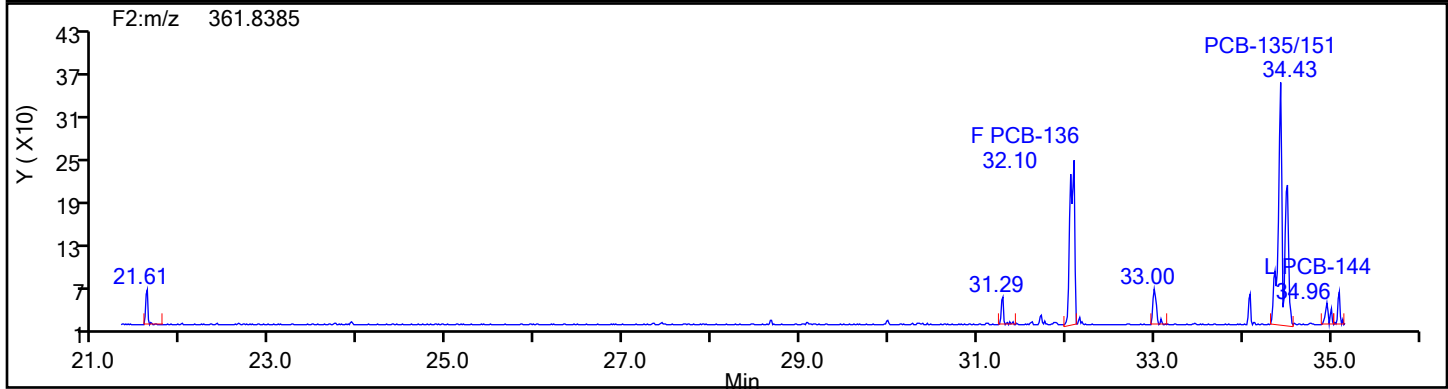
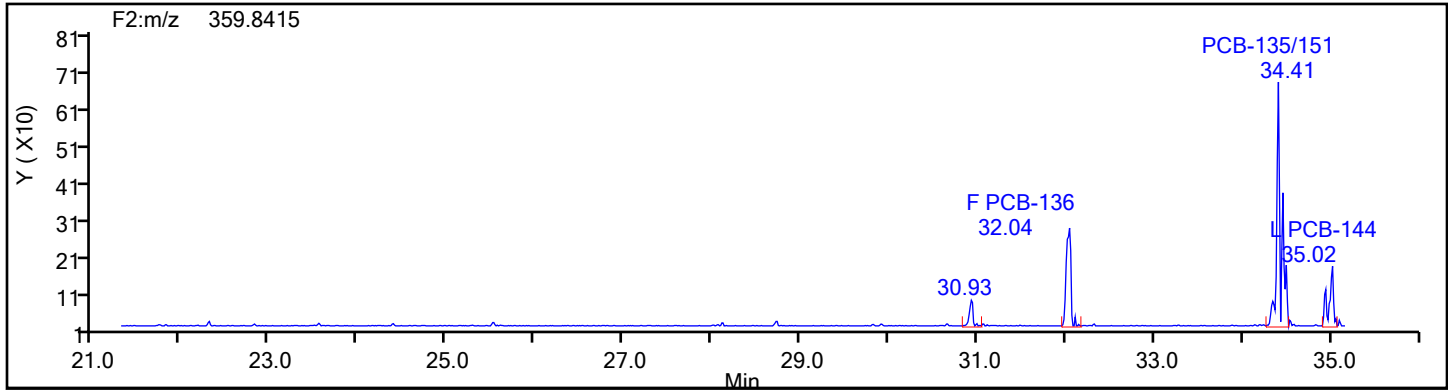


PePCB F3 Lock Mass

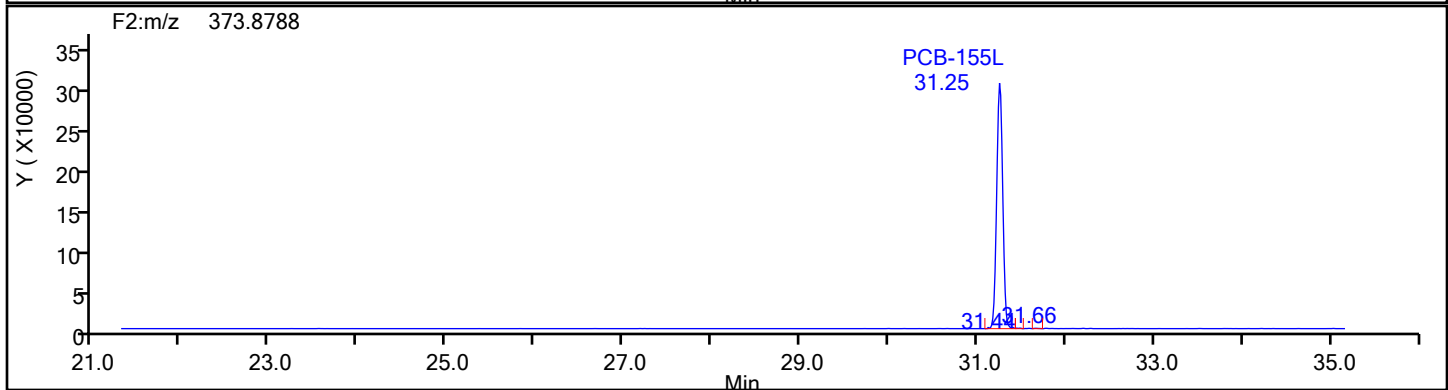
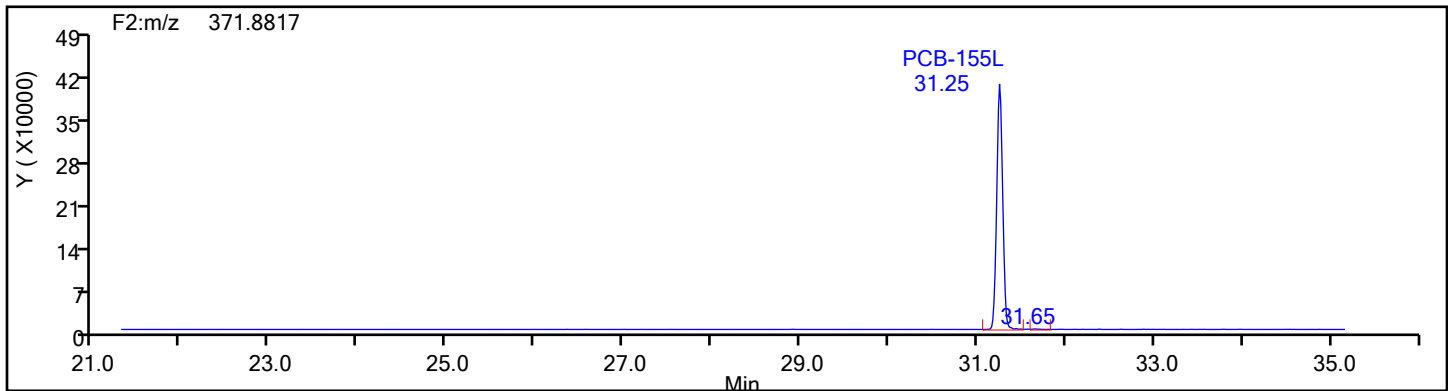


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

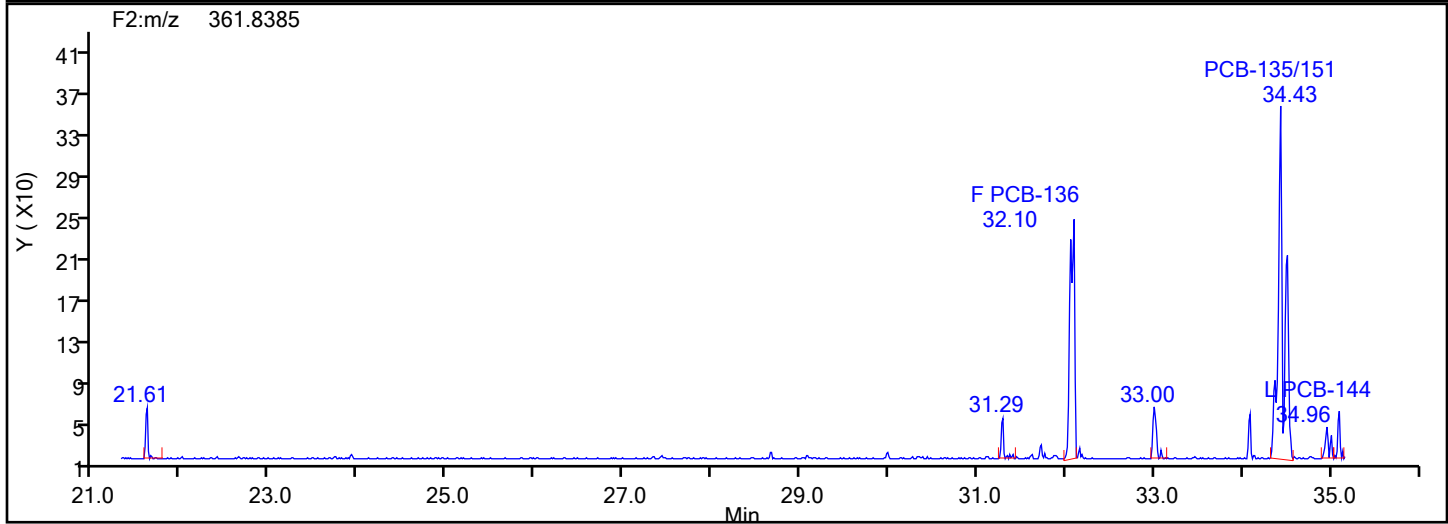
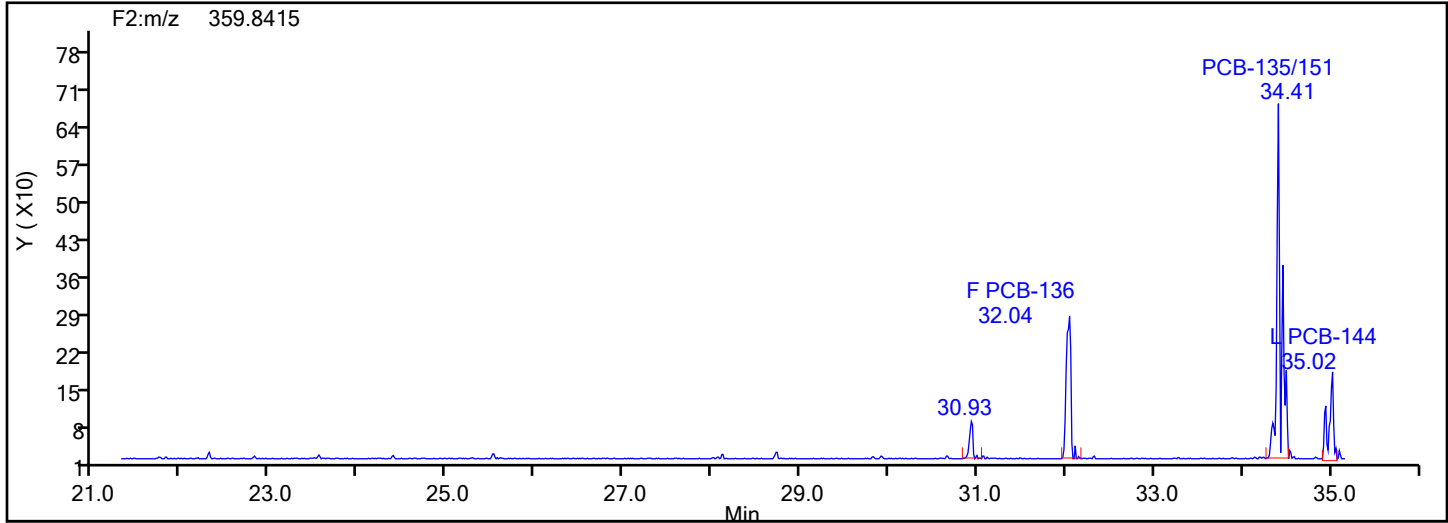


HxPCB F2 Standards

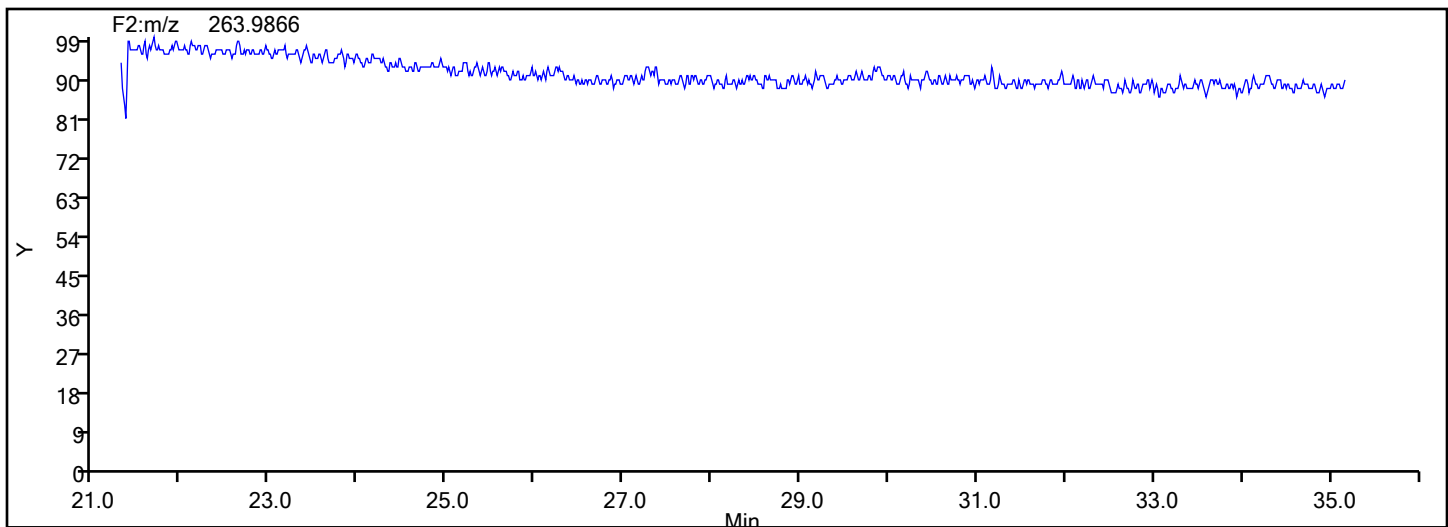


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

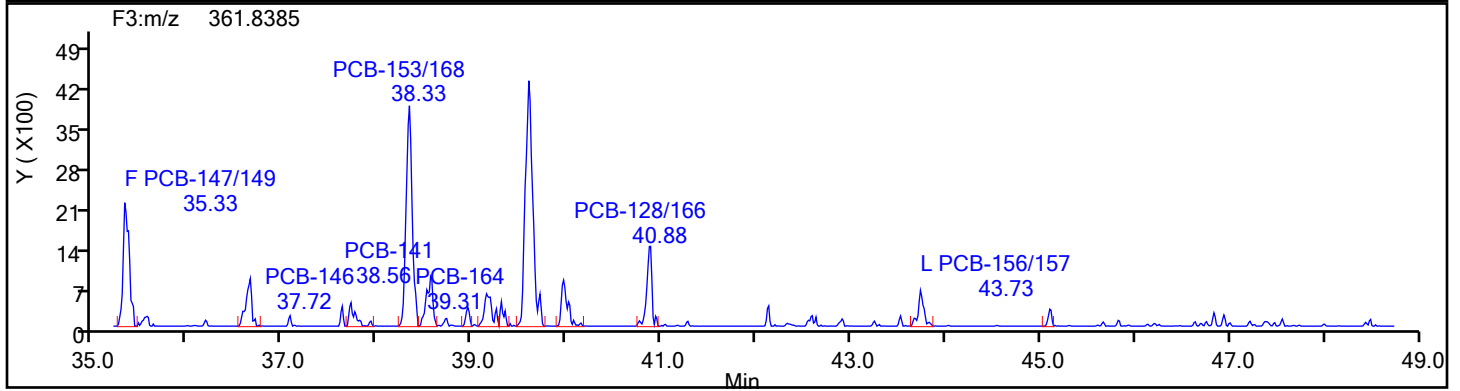
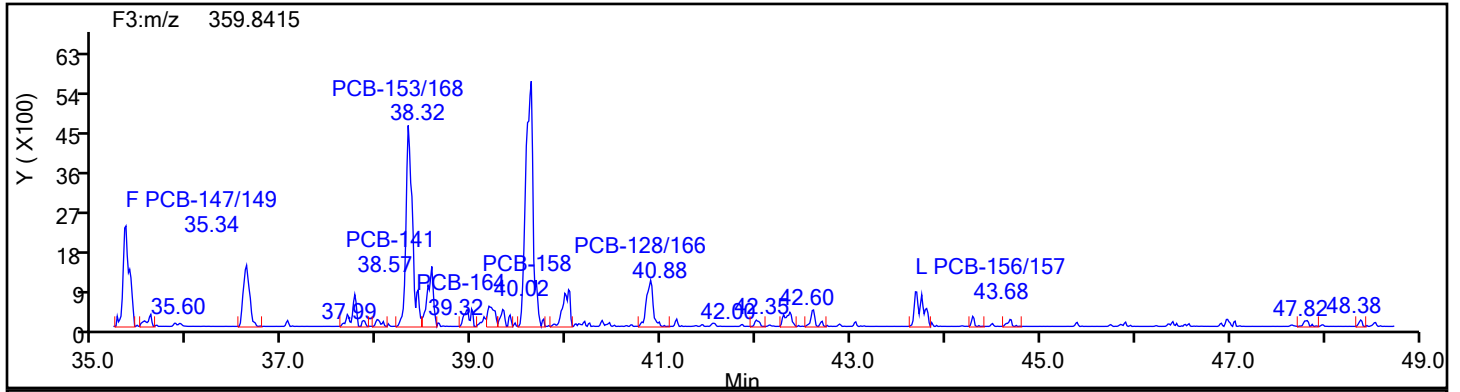


HxPCB F2 Lock Mass

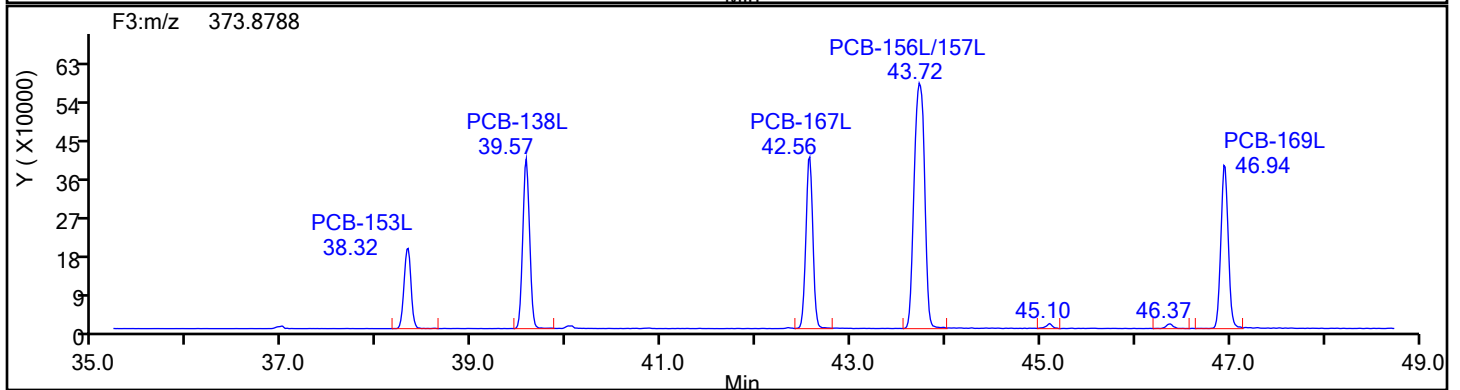
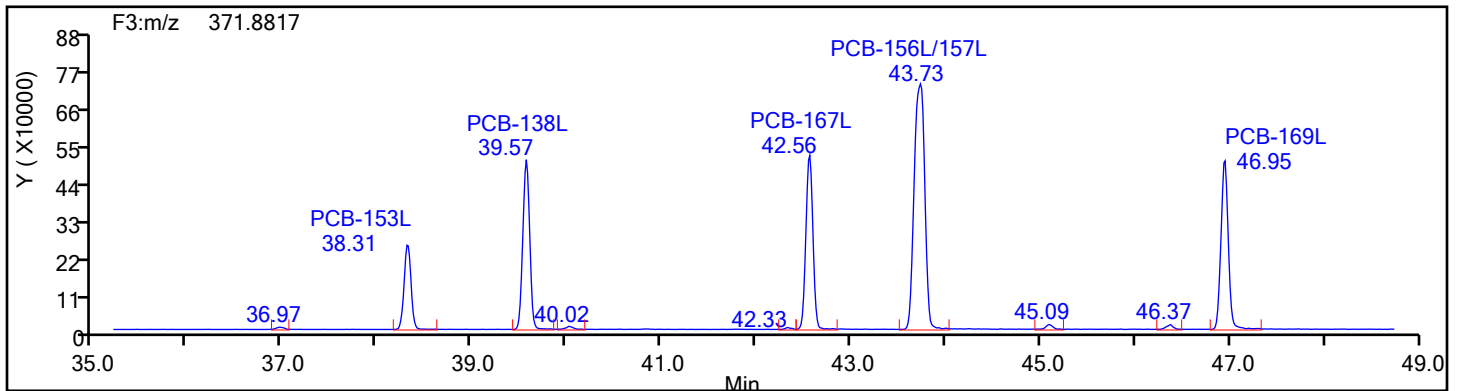


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

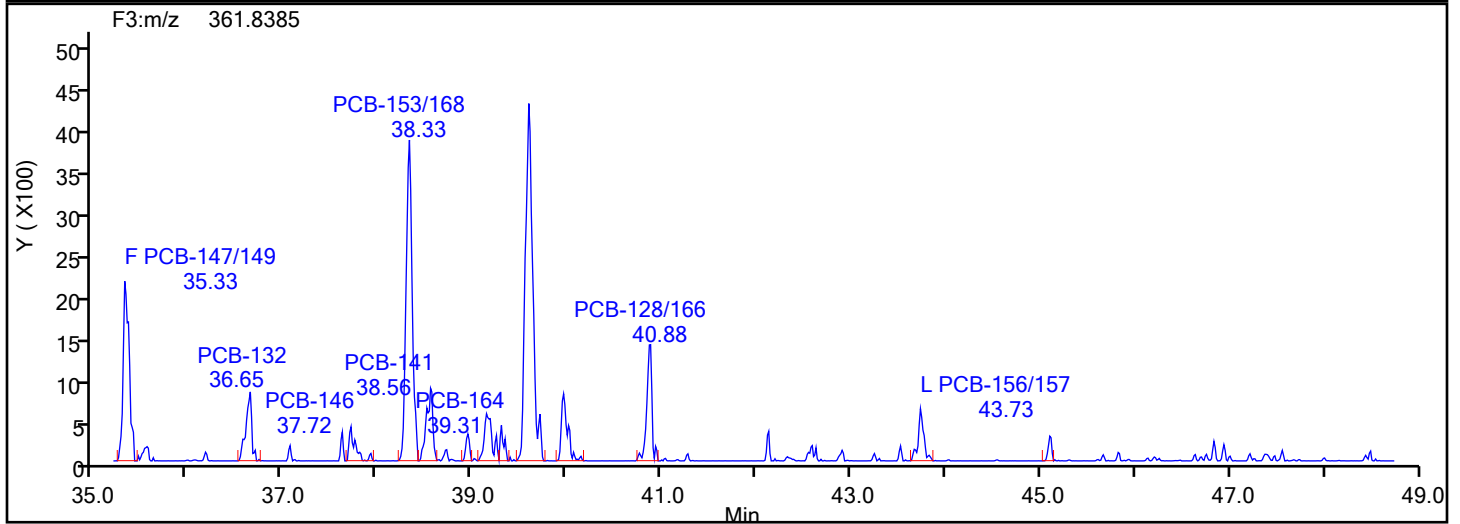
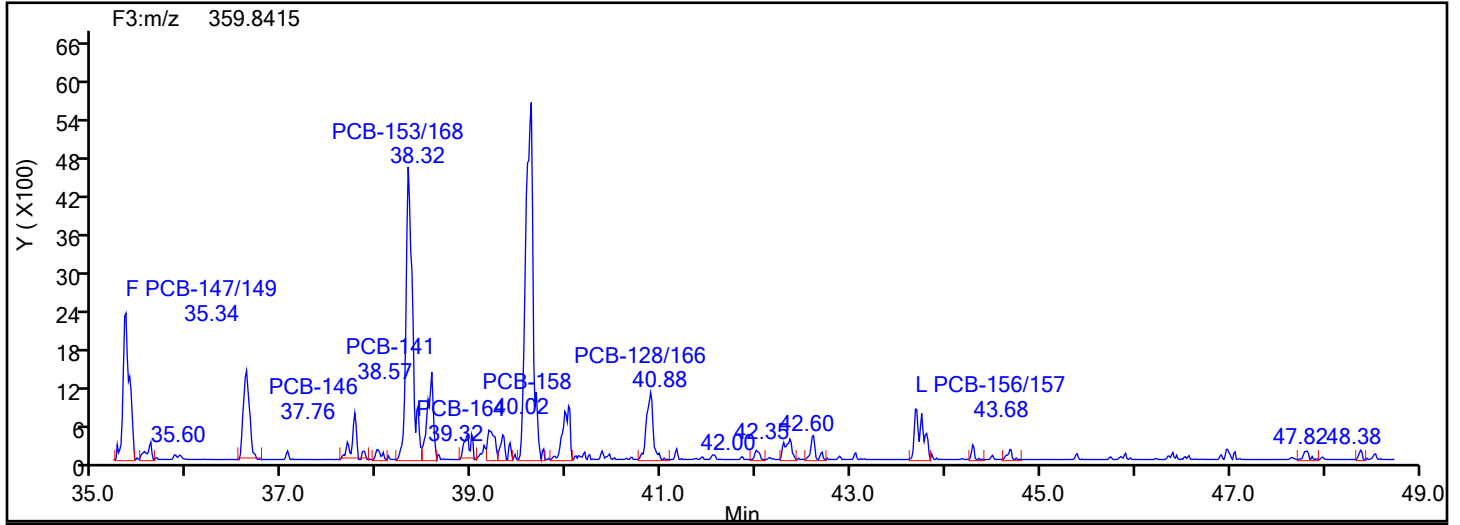


HxPCB F3 Standards

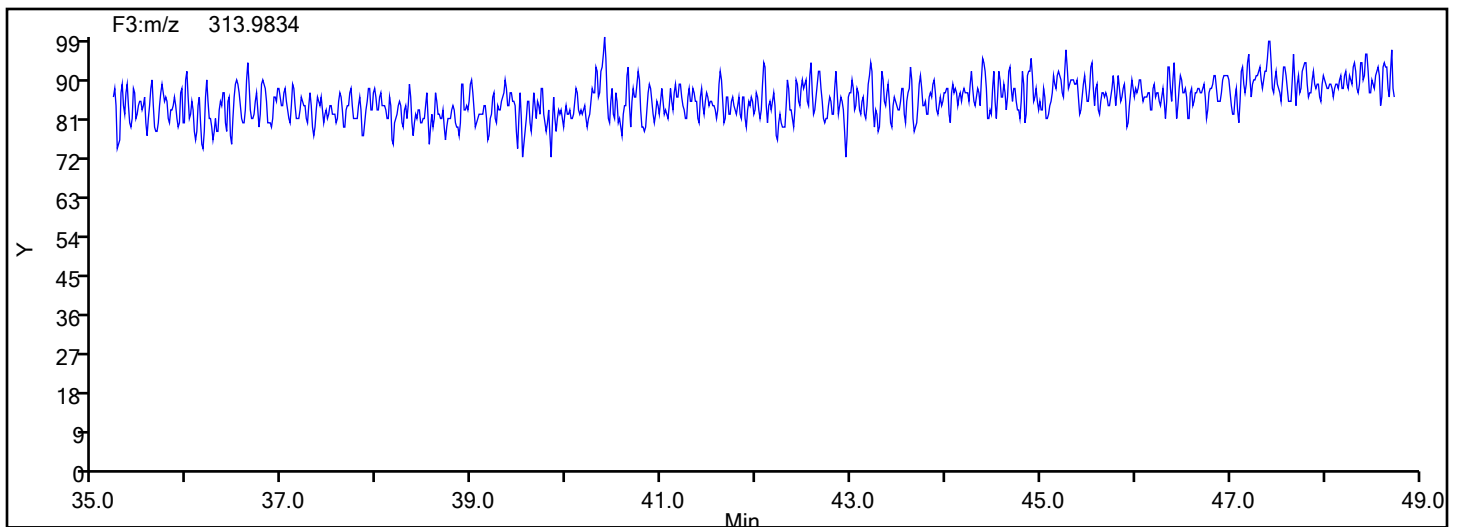


Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

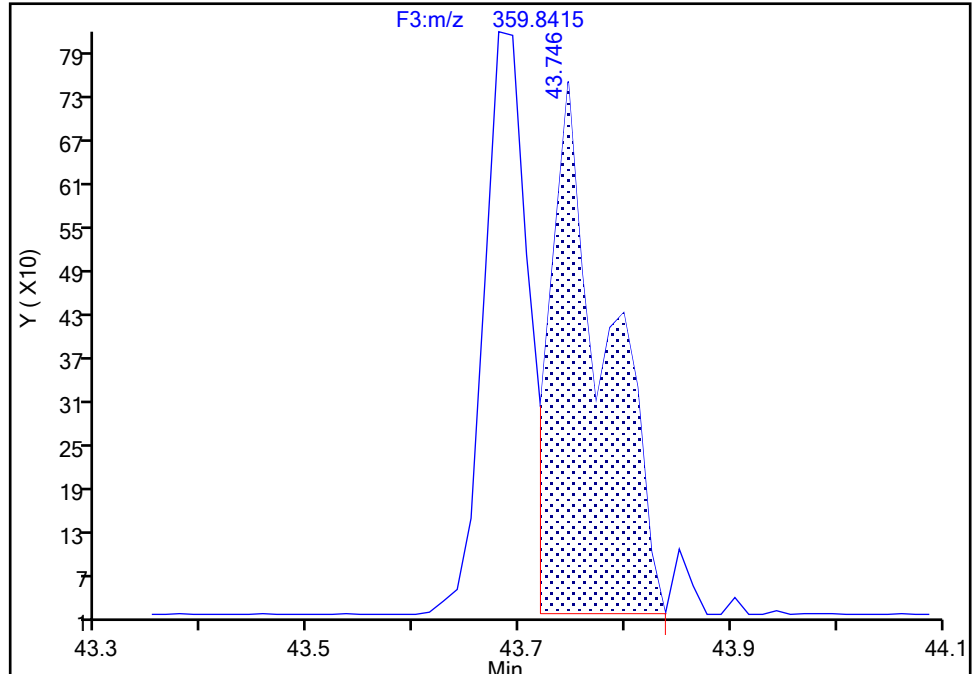
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-156/157, CAS: STL01792

Signal: 1

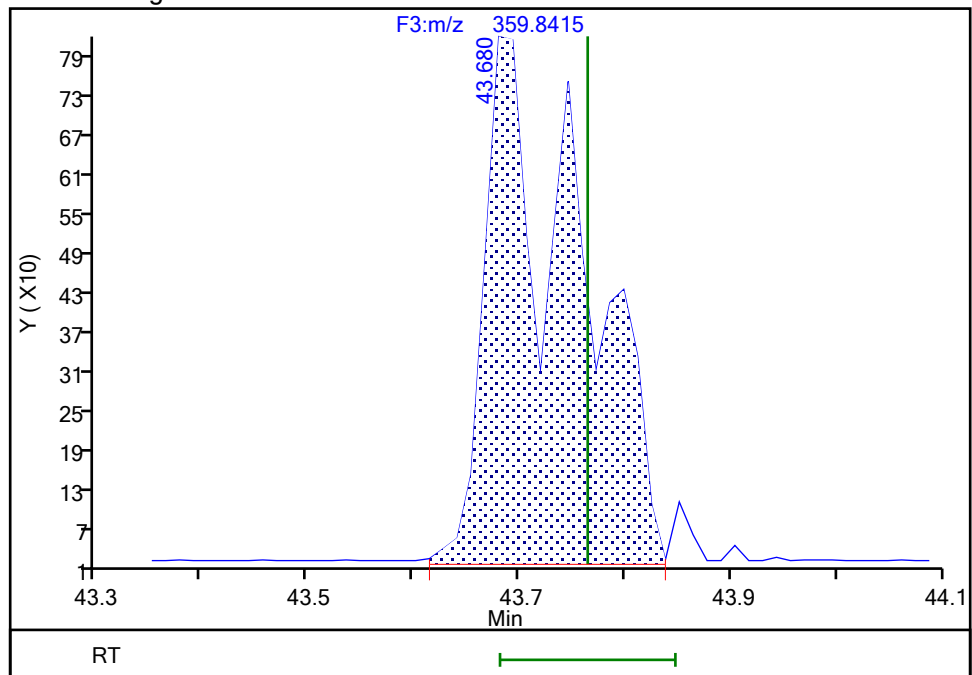
RT: 43.75
Area: 2618
Amount: 0.092797
Amount Units: pg/ul

Processing Integration Results



RT: 43.68
Area: 4925
Amount: 0.133684
Amount Units: pg/ul

Manual Integration Results



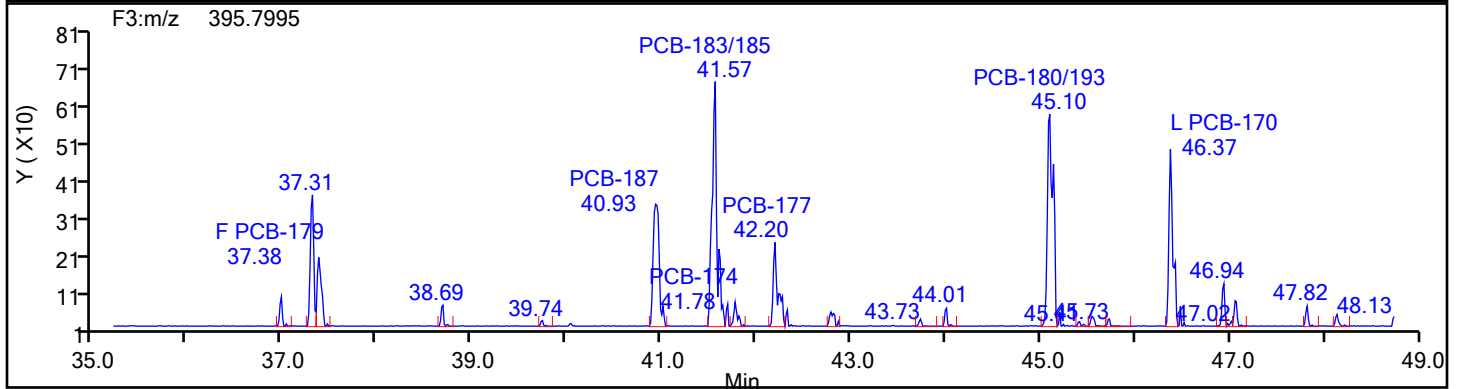
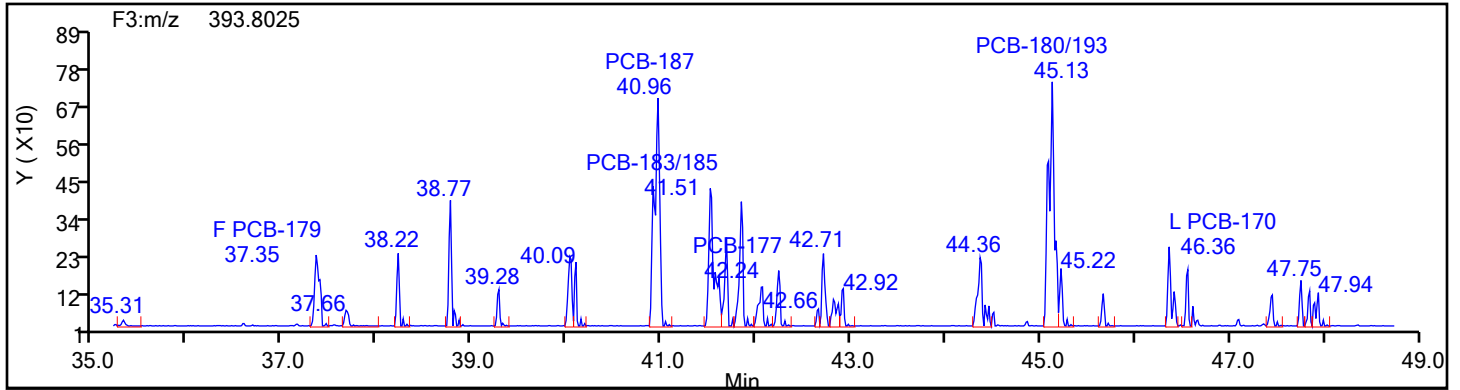
Reviewer: V4XA, 16-Jul-2024 22:04:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

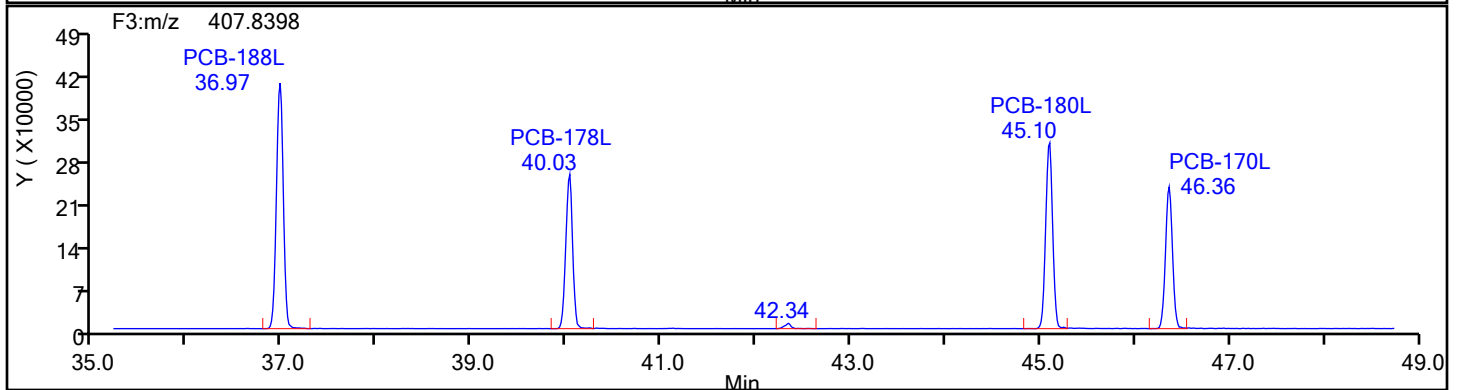
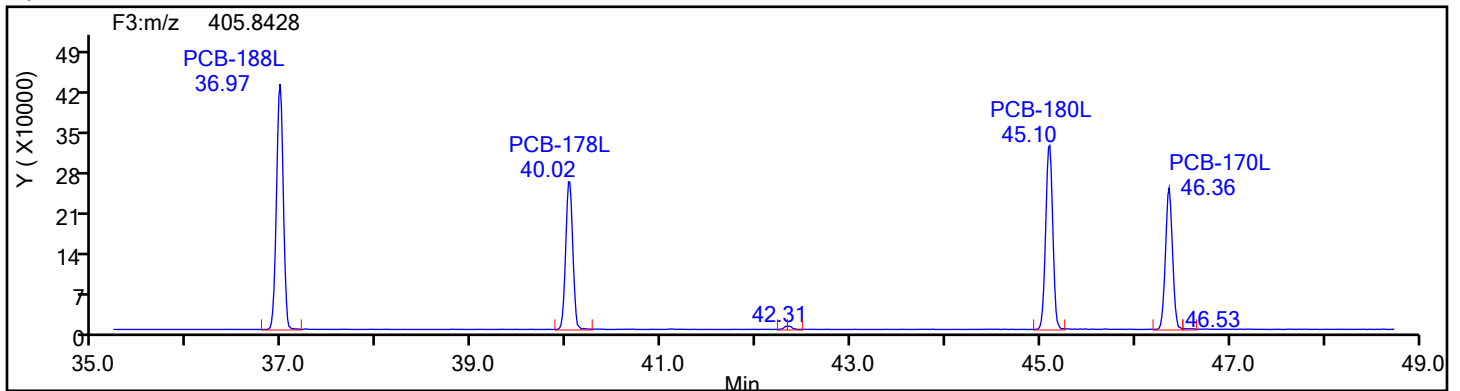
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

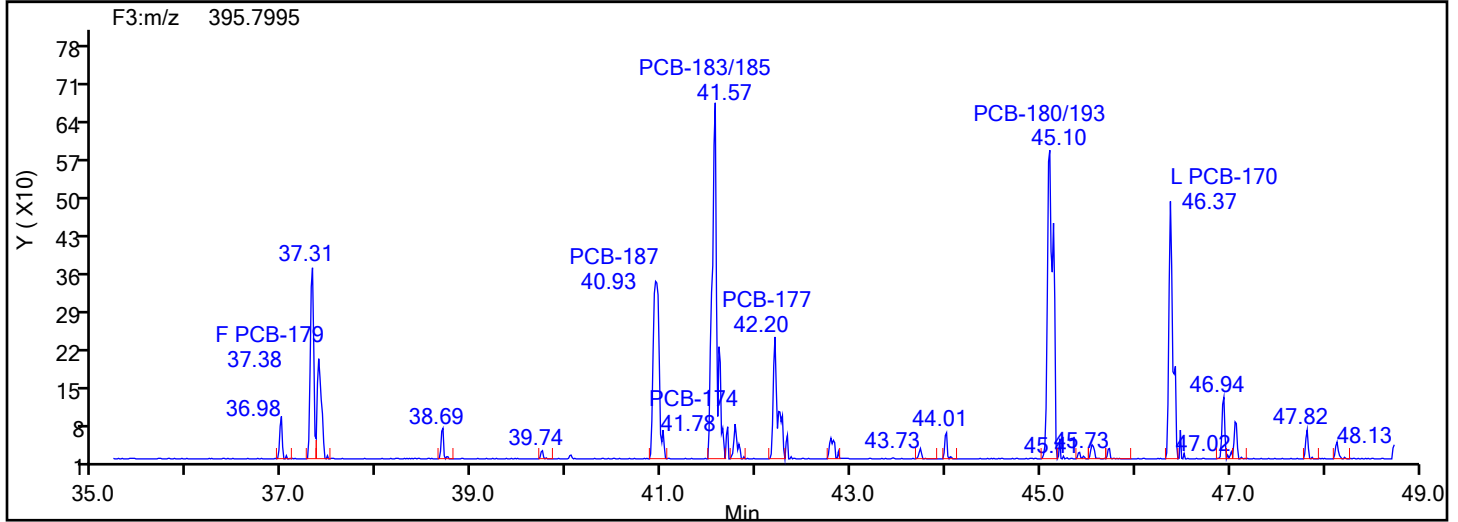
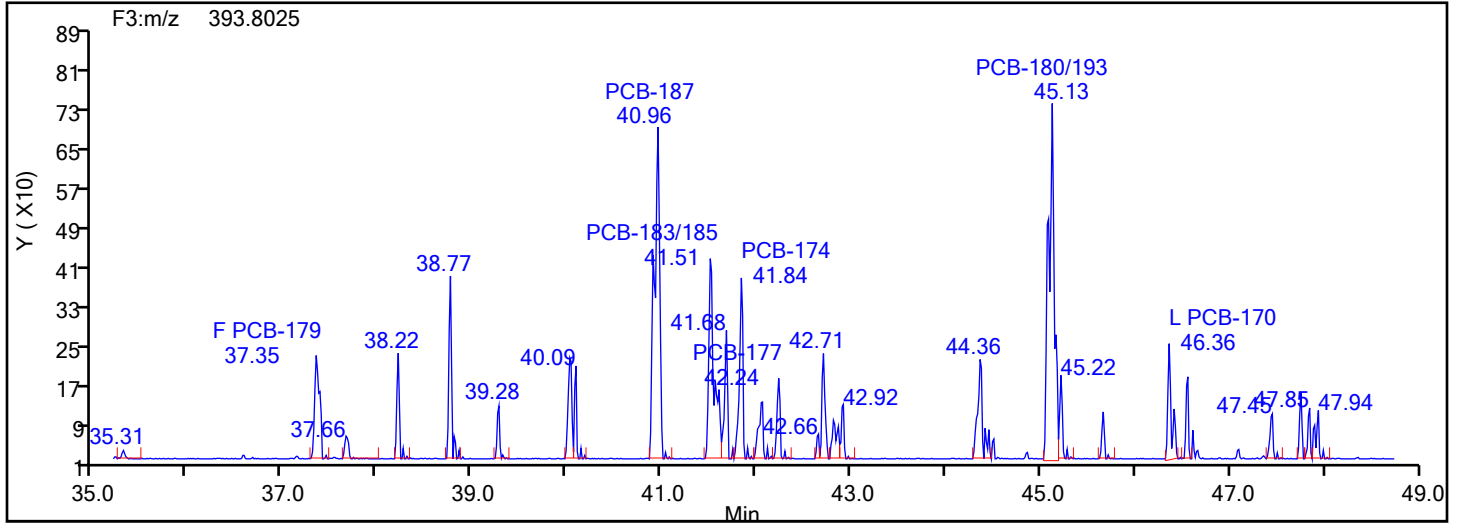


HpPCB F3 Standards

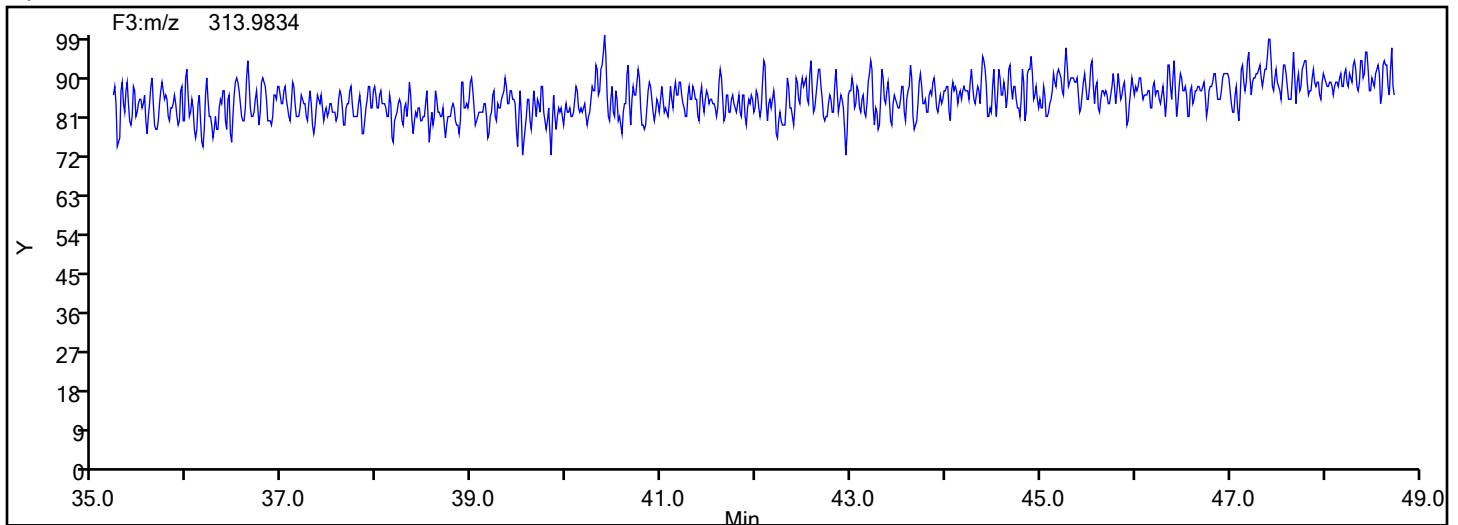


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

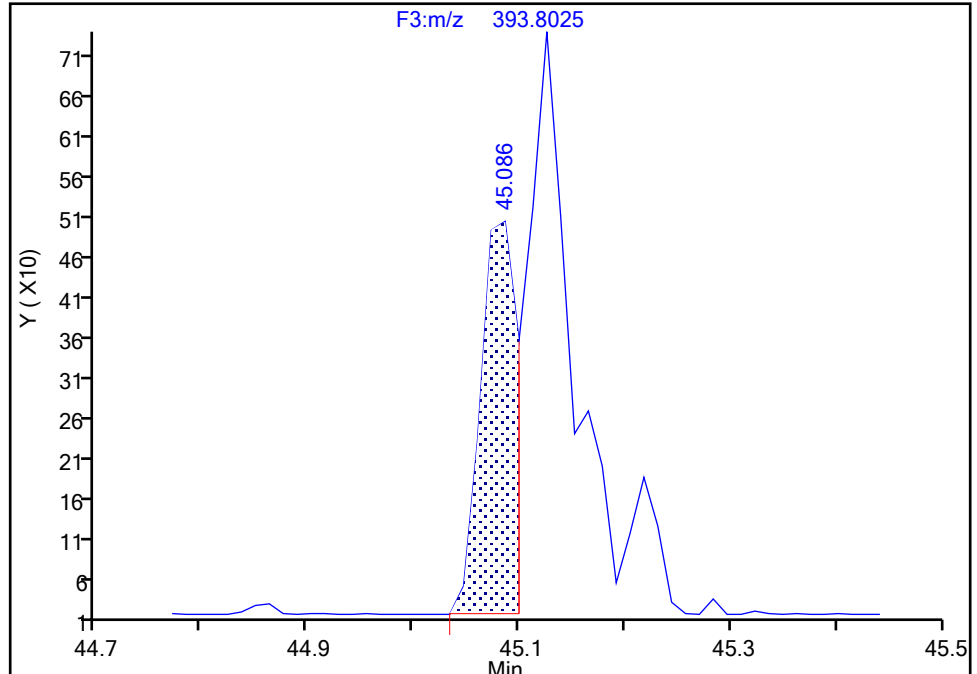
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Injection Date: 16-Jul-2024 06:00:00 Instrument ID: D2D
Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 1

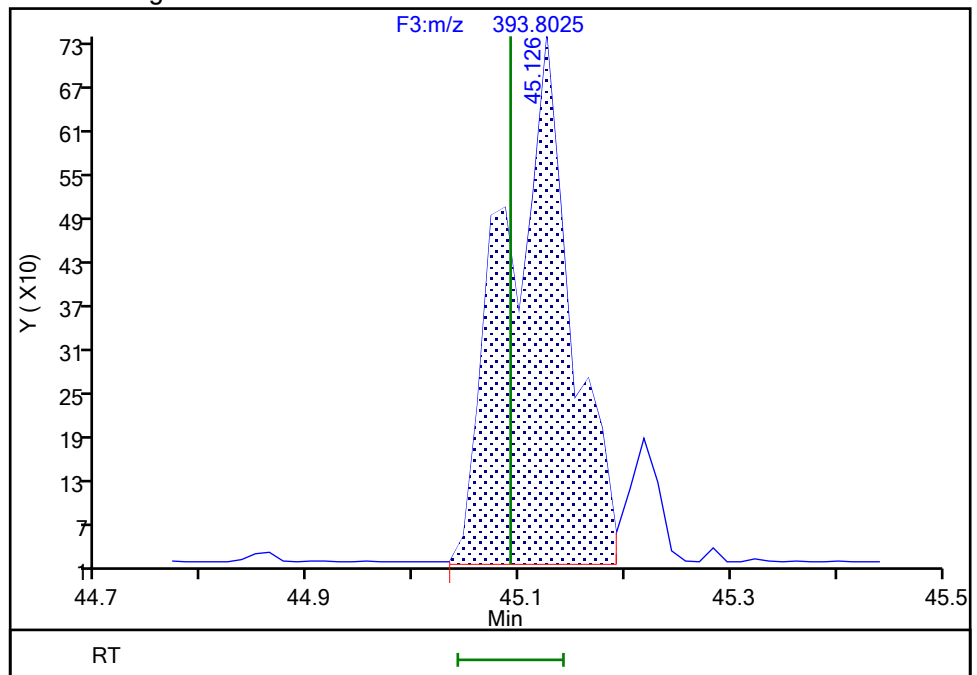
RT: 45.09
Area: 1084
Amount: 0.089075
Amount Units: pg/ul

Processing Integration Results



RT: 45.13
Area: 3119
Amount: 0.141465
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 22:05:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

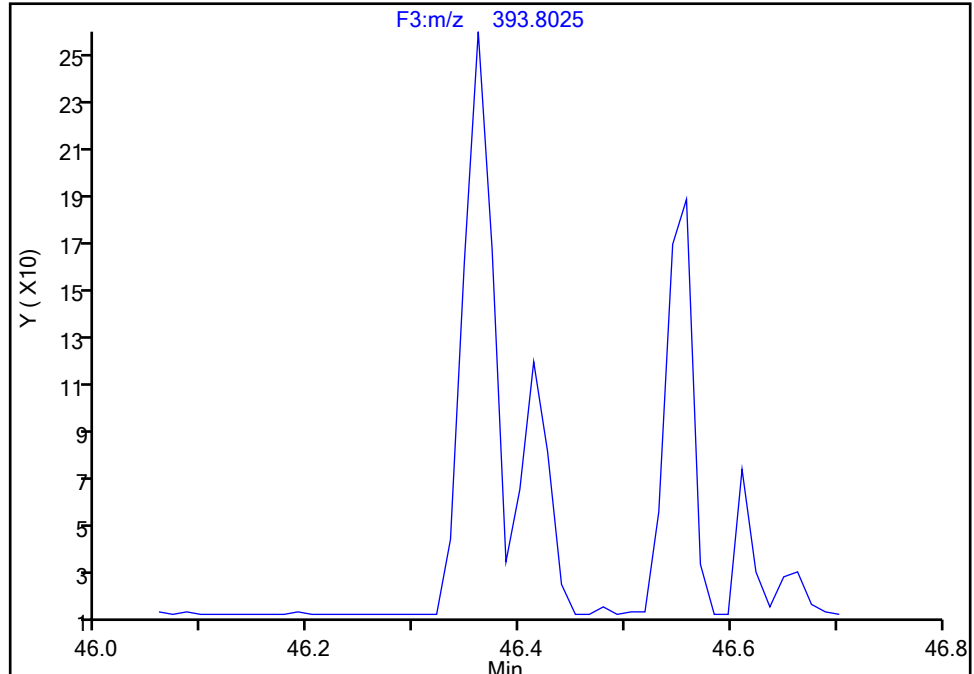
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Lims ID: 140-37232-A-4-D Lab Sample ID: 140-37232-4
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

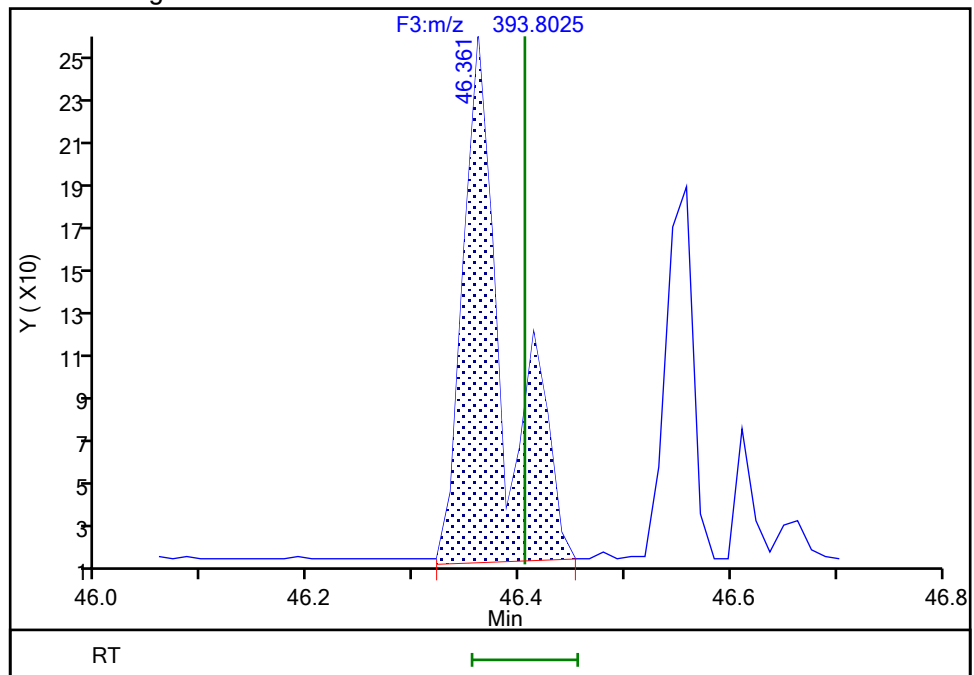
Not Detected
Expected RT: 46.40

Processing Integration Results



RT: 46.36
Area: 637
Amount: 0.069129
Amount Units: pg/ul

Manual Integration Results

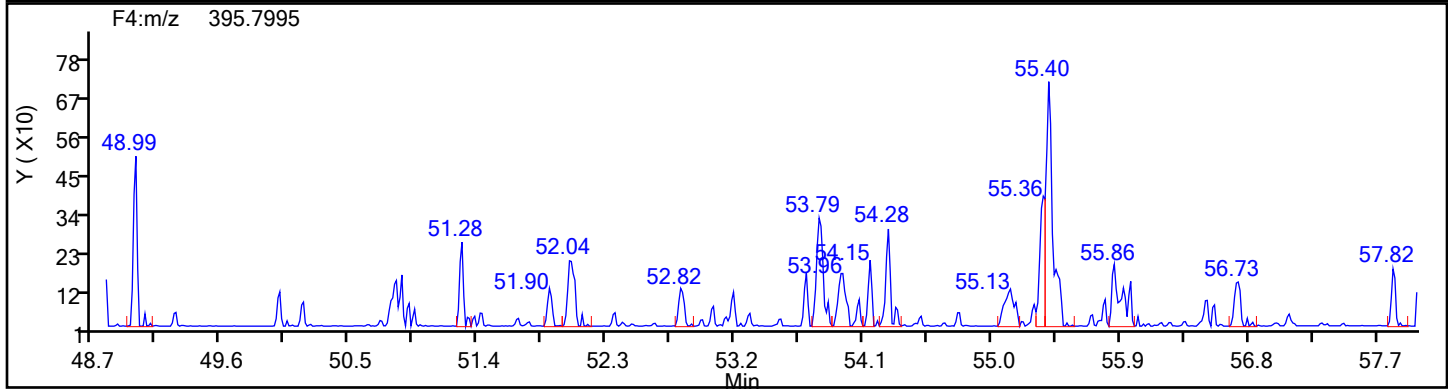
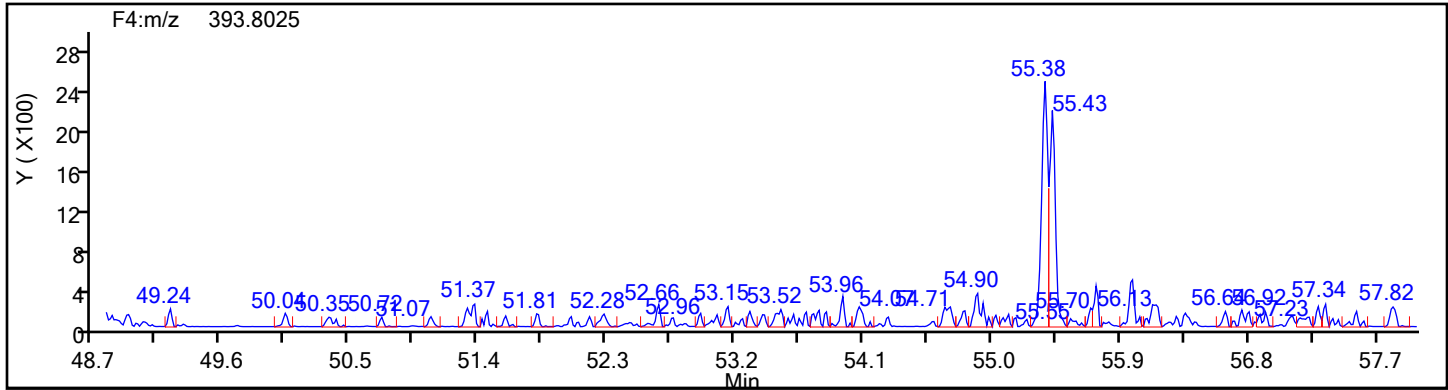


Reviewer: V4XA, 16-Jul-2024 22:06:12 -04:00:00 (UTC)

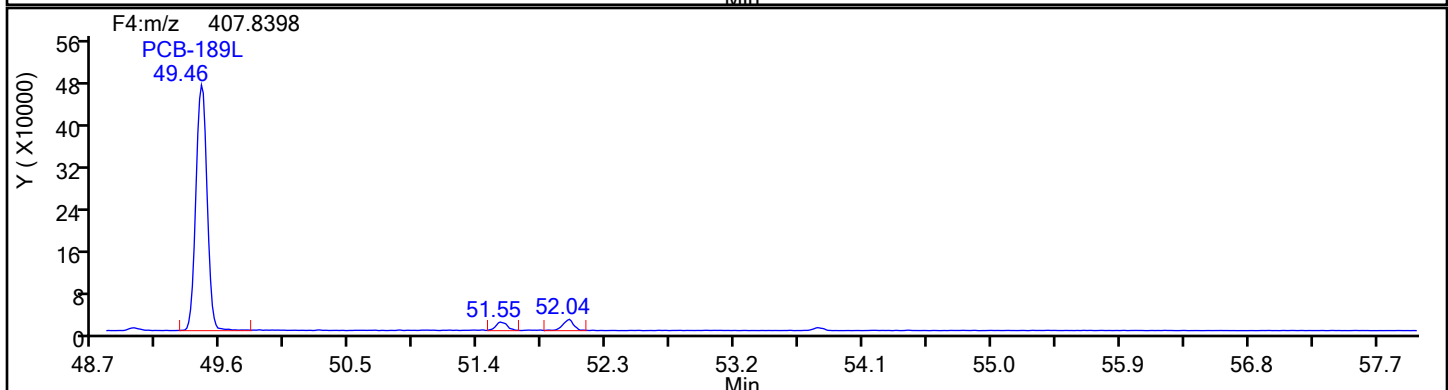
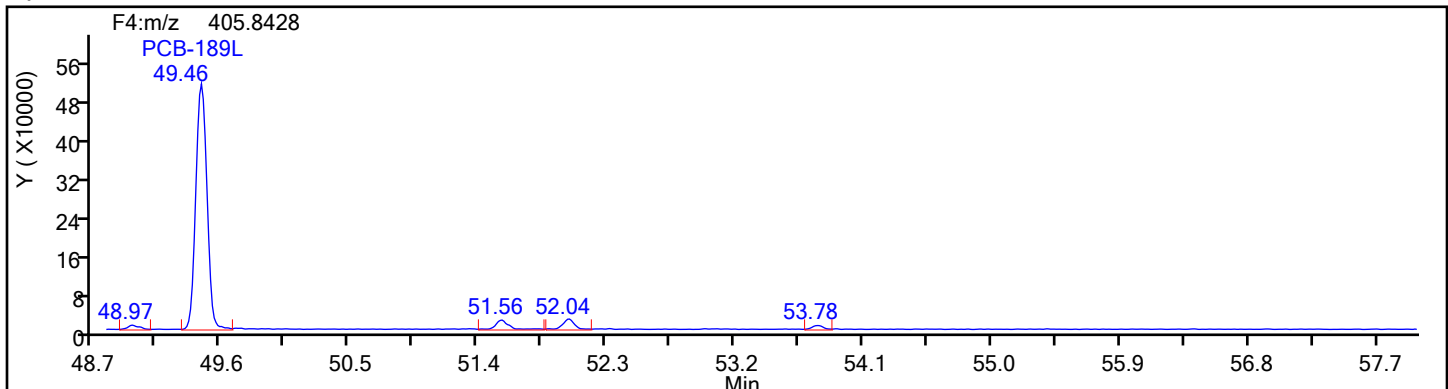
Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

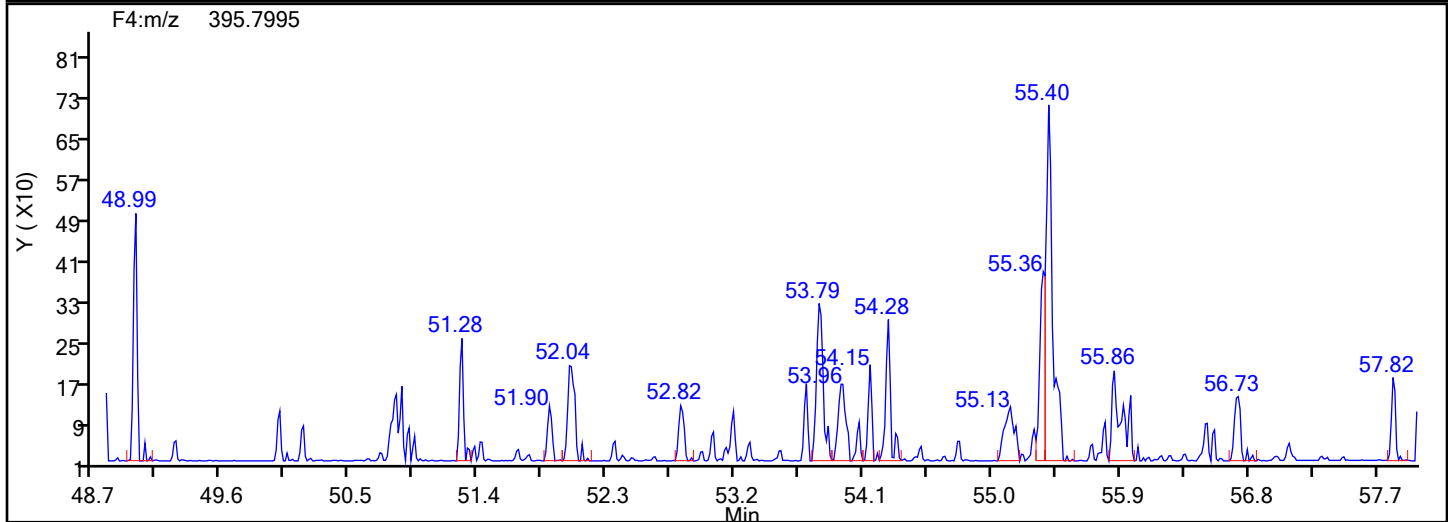
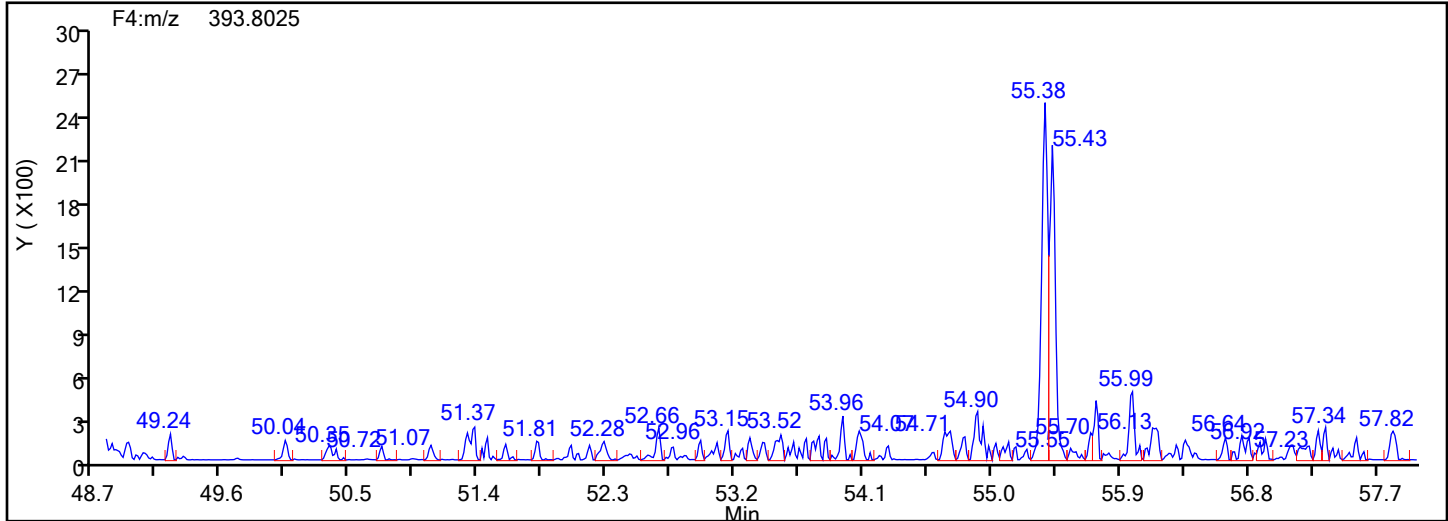


HpPCB F4 Standards

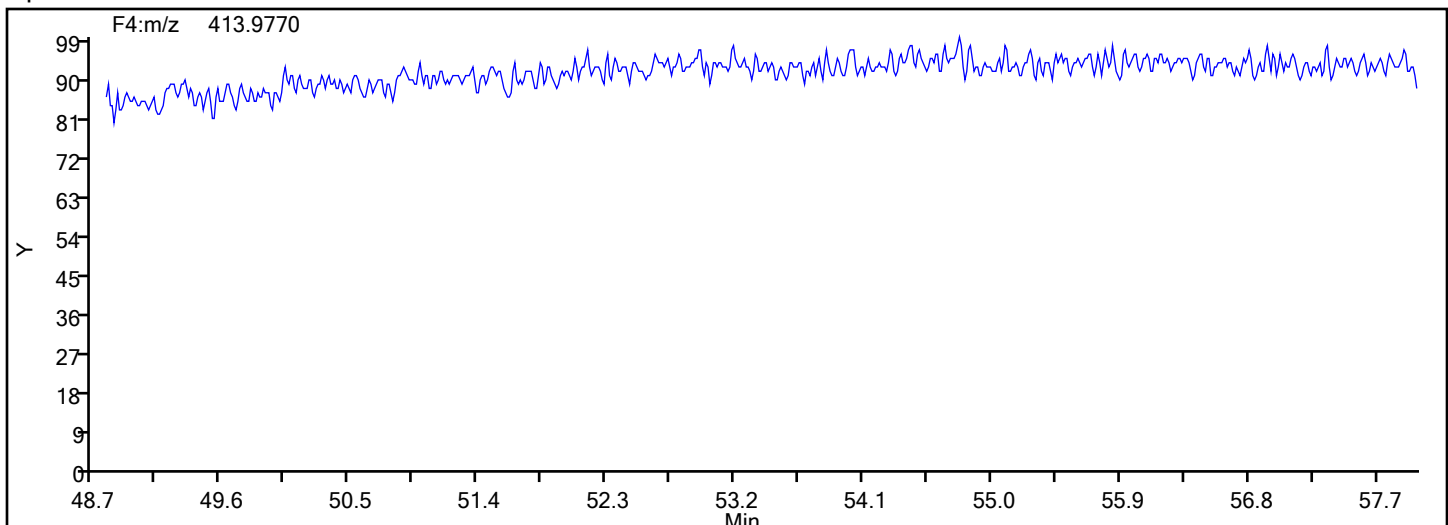


Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

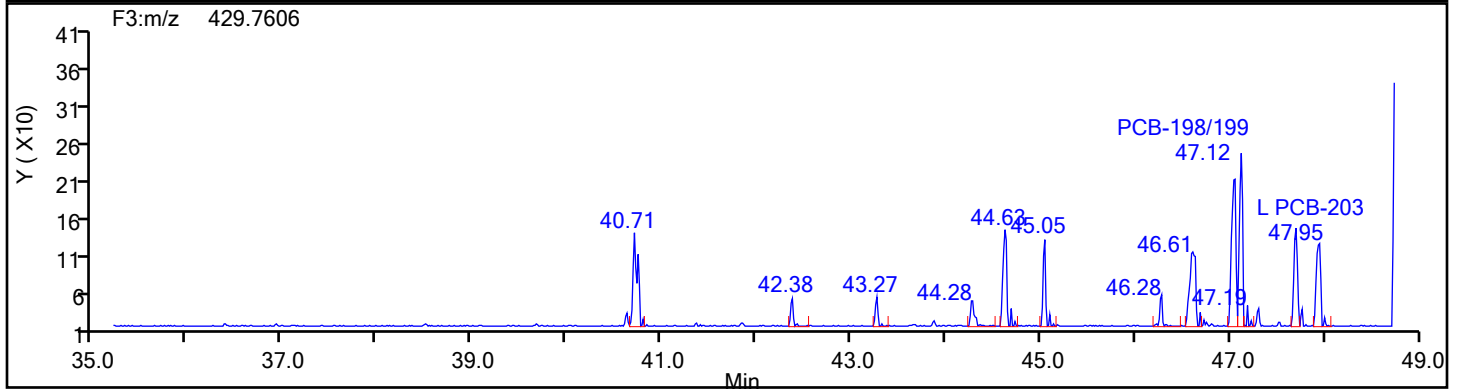
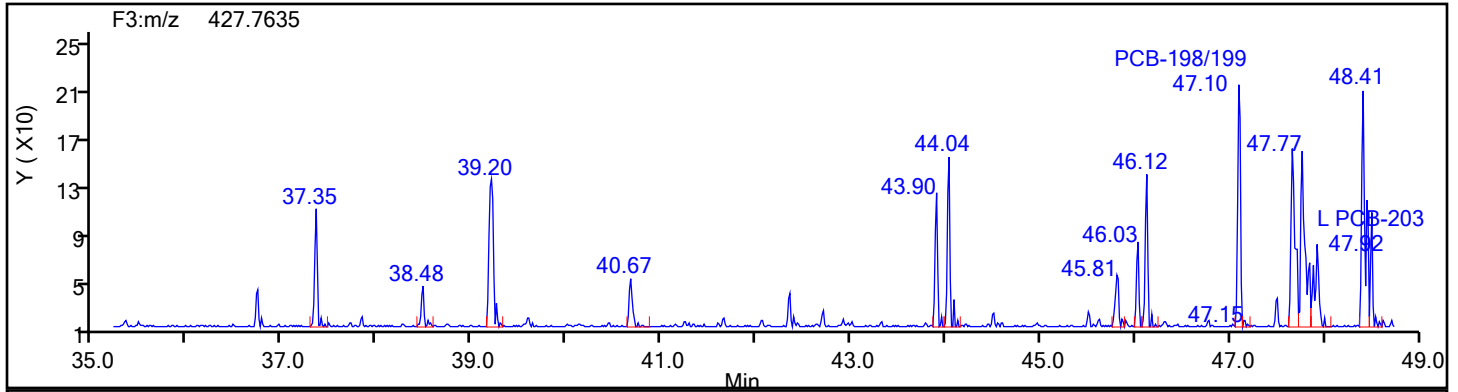


HpPCB F4 Lock Mass

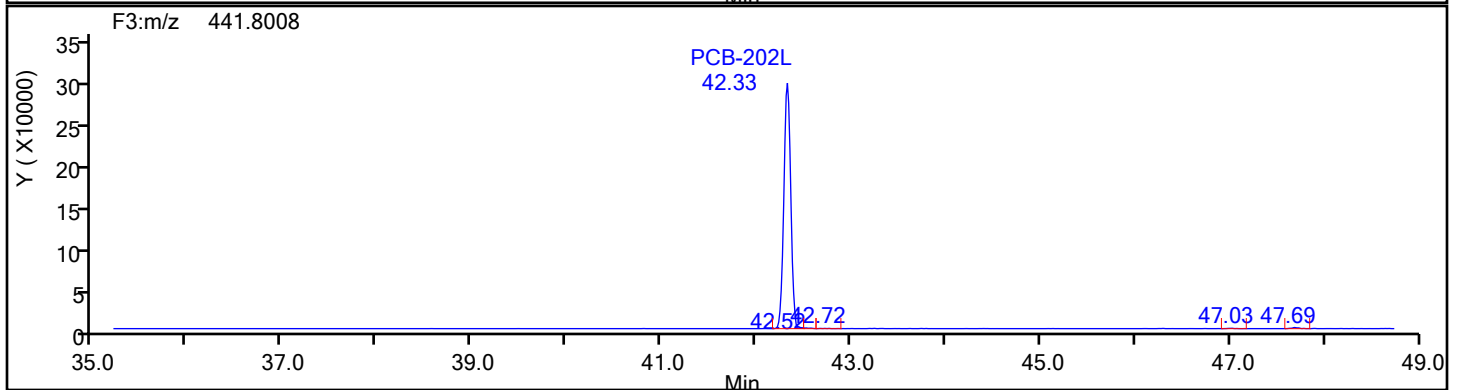
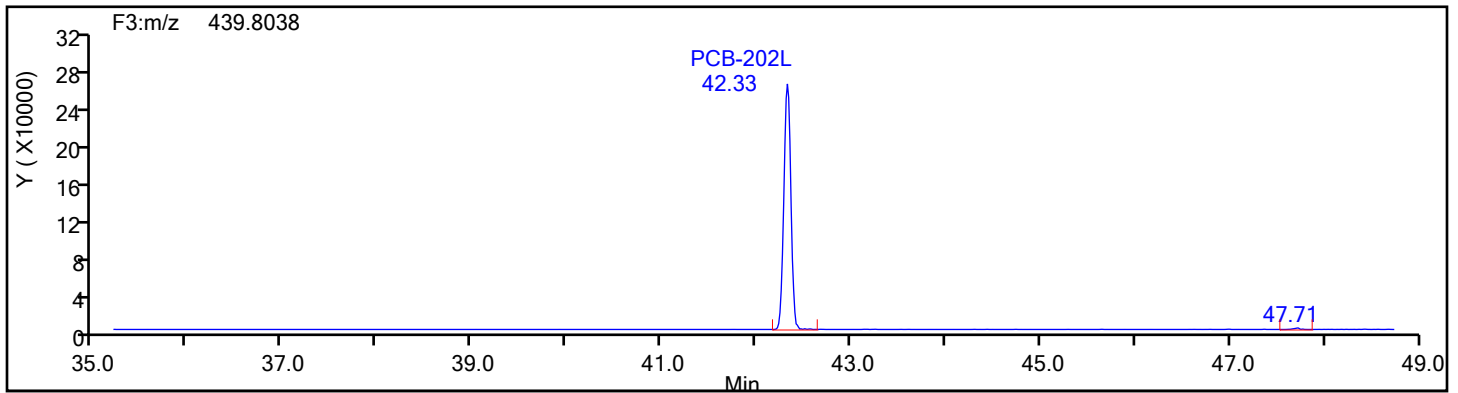


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

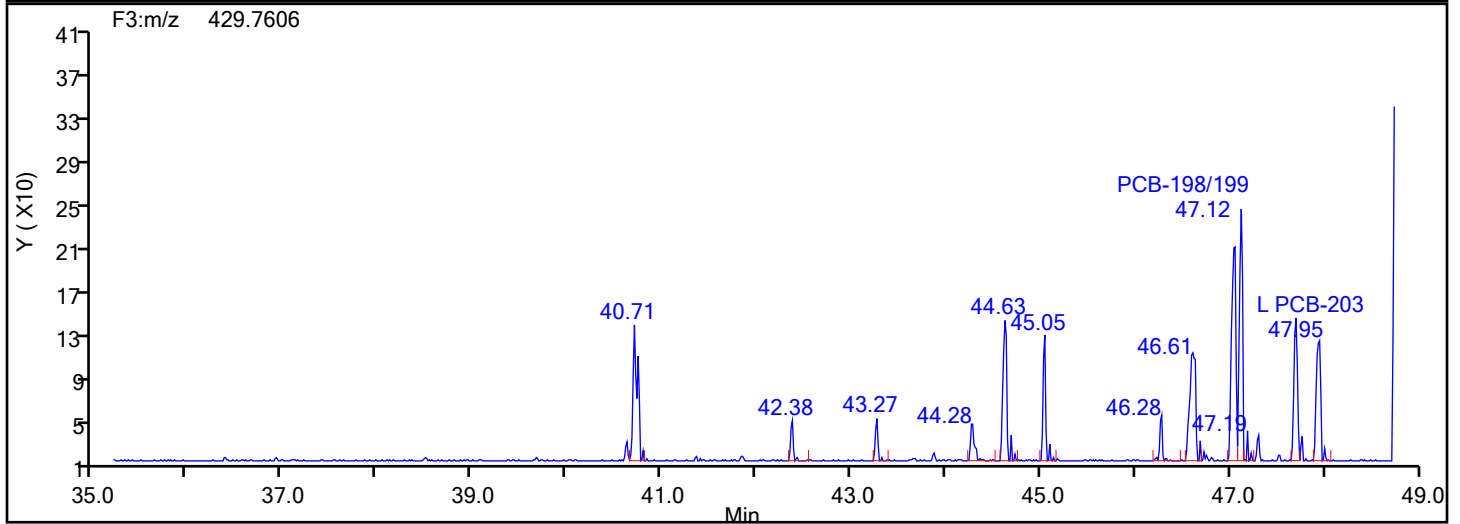
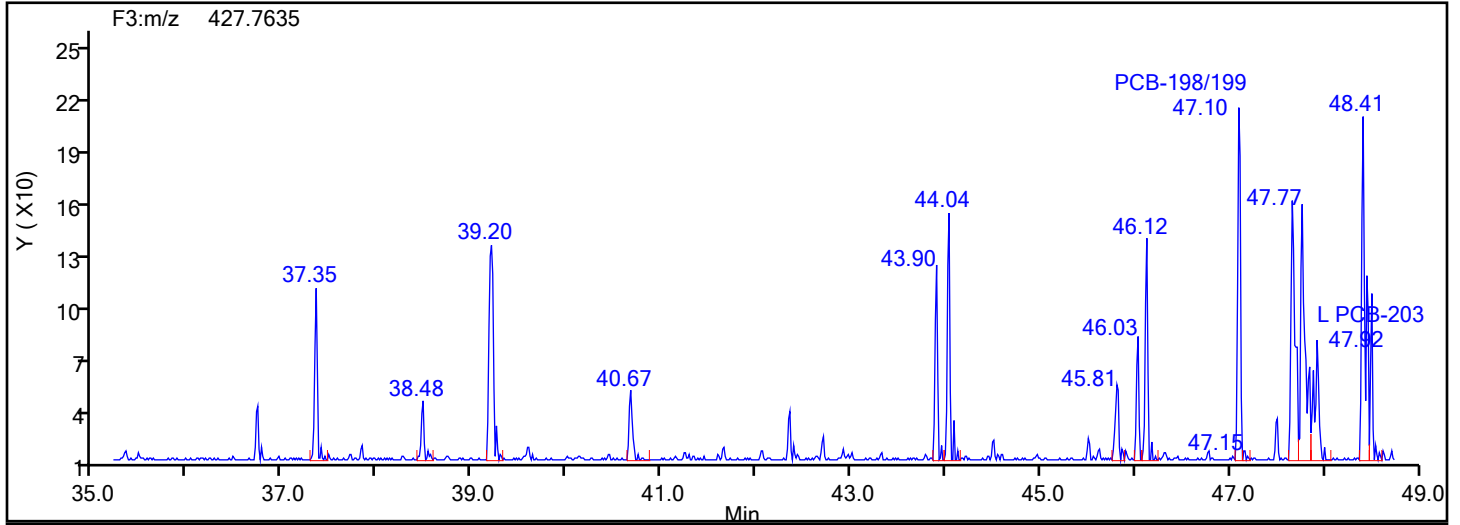


OcPCB F3 Standards

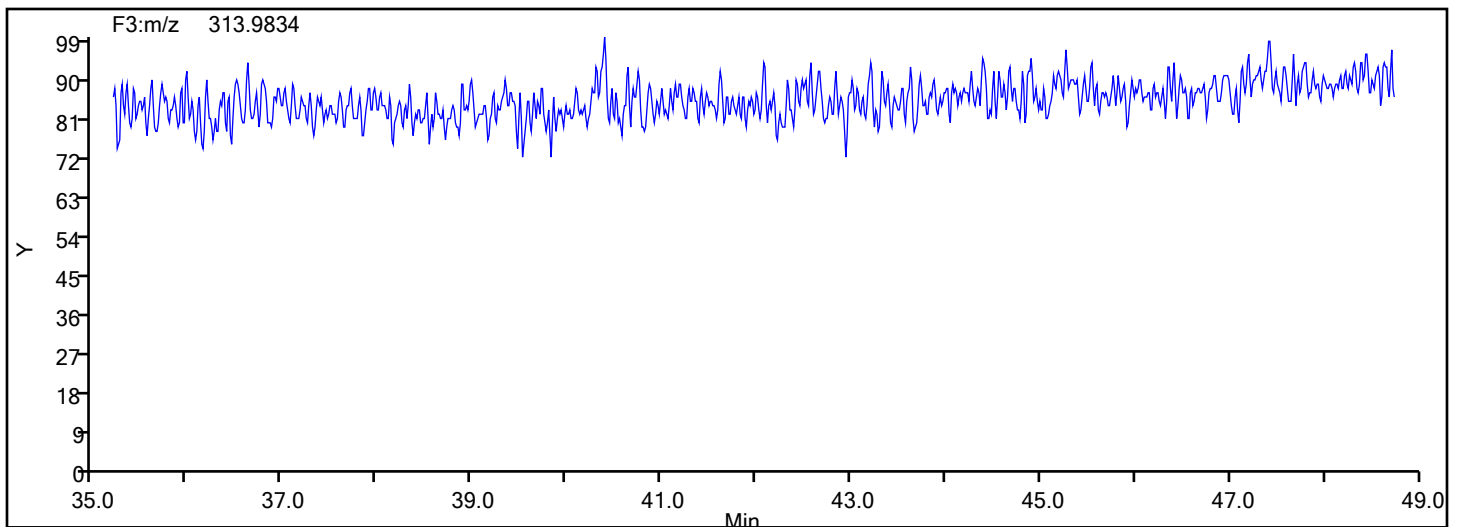


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

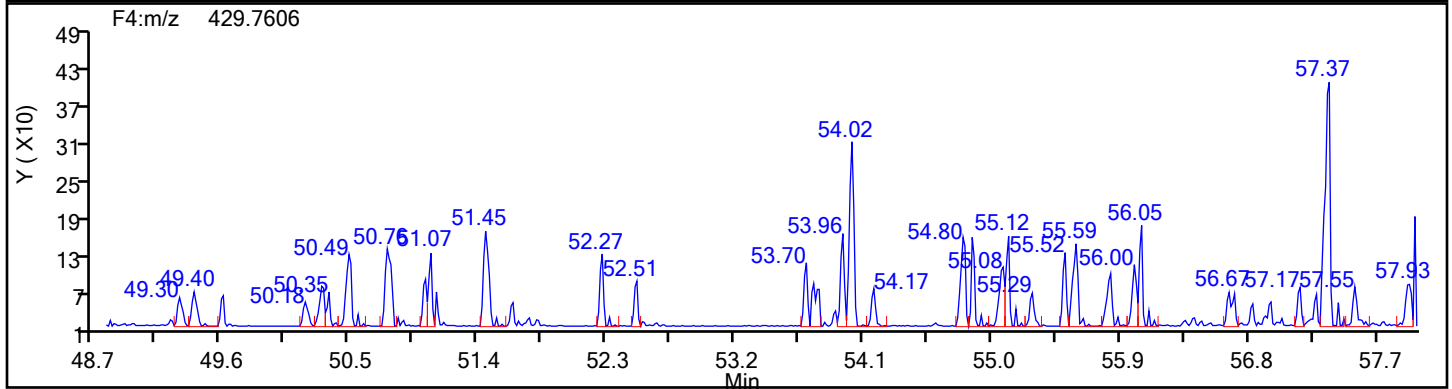
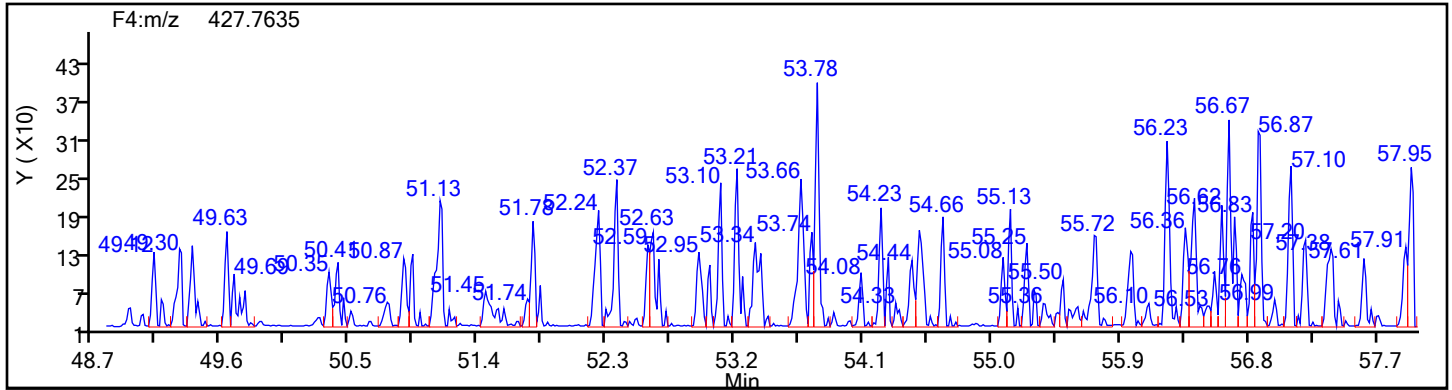


OcPCB F3 Lock Mass

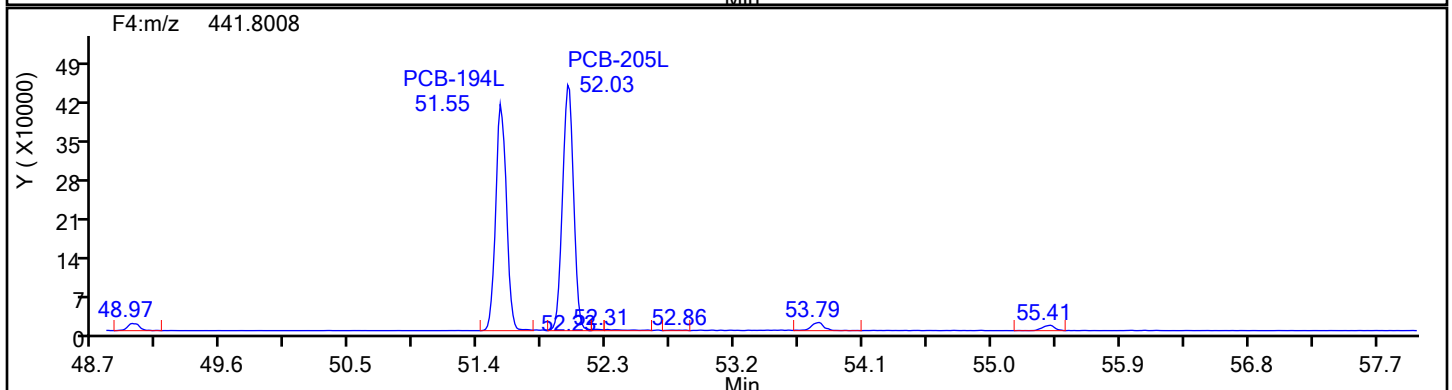
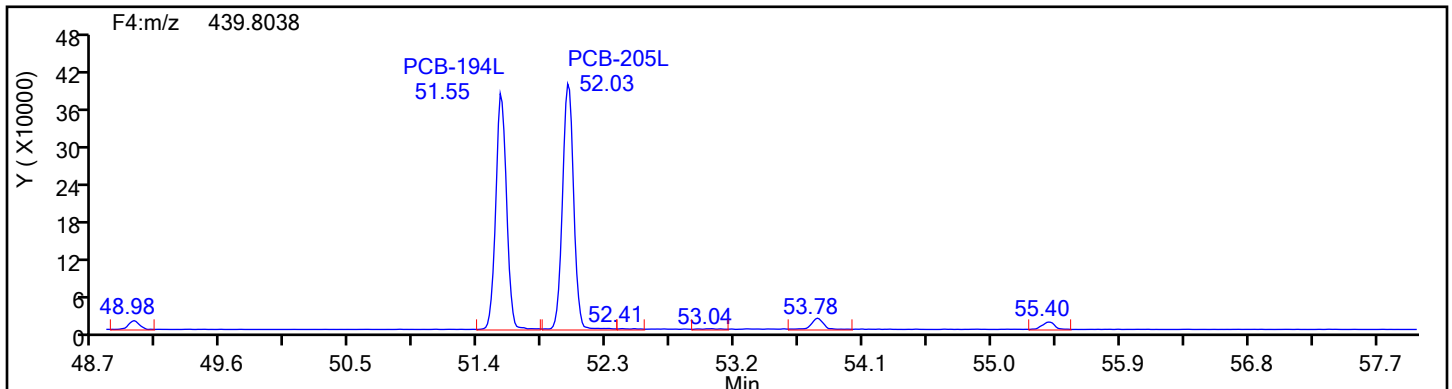


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

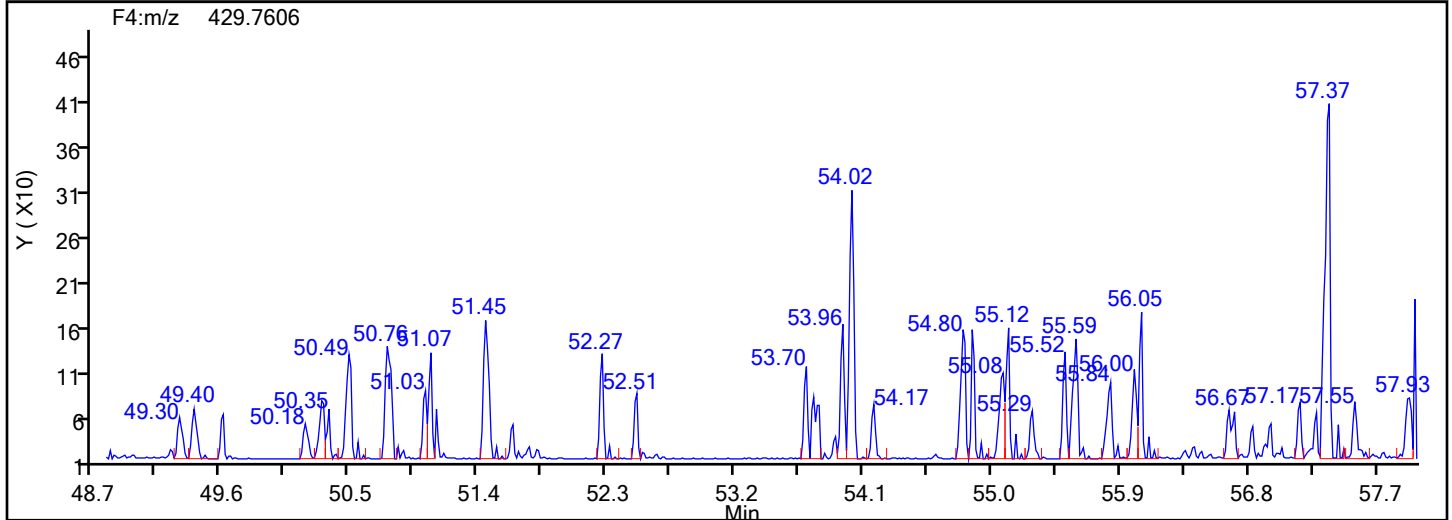
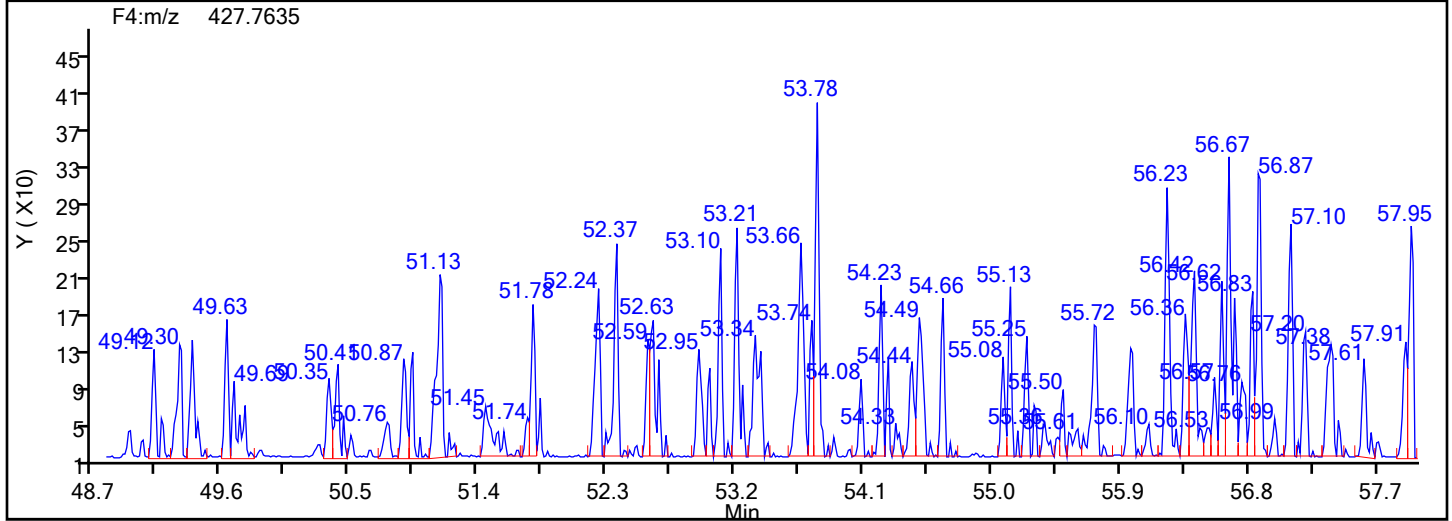


OcPCB F4 Standards

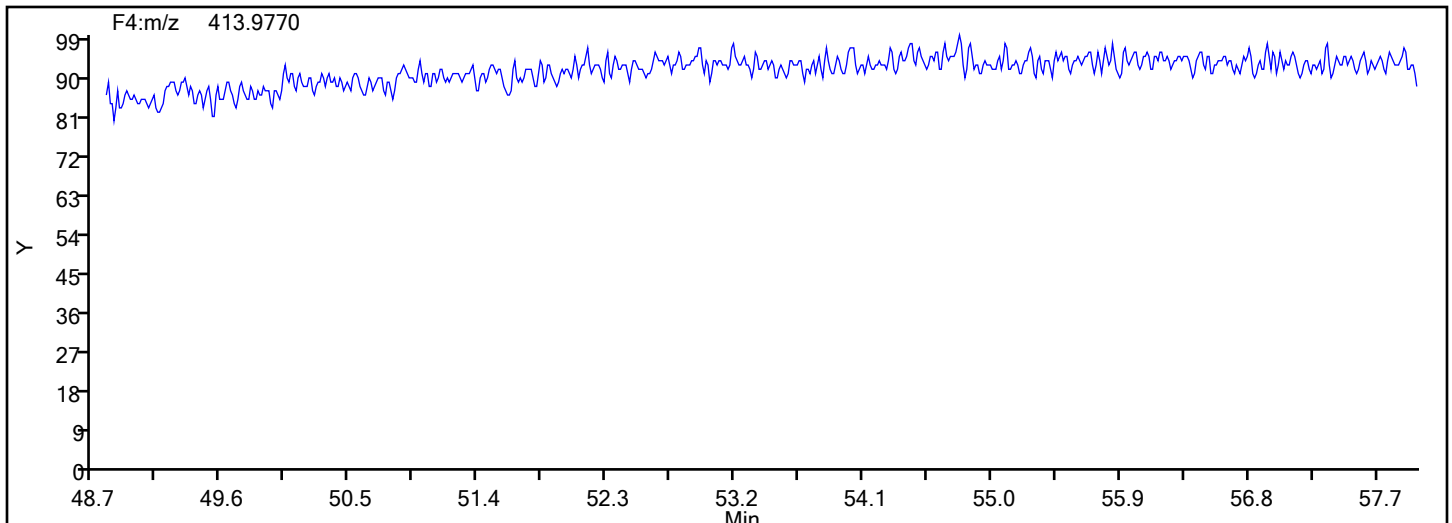


Eurofins Knoxville

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Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

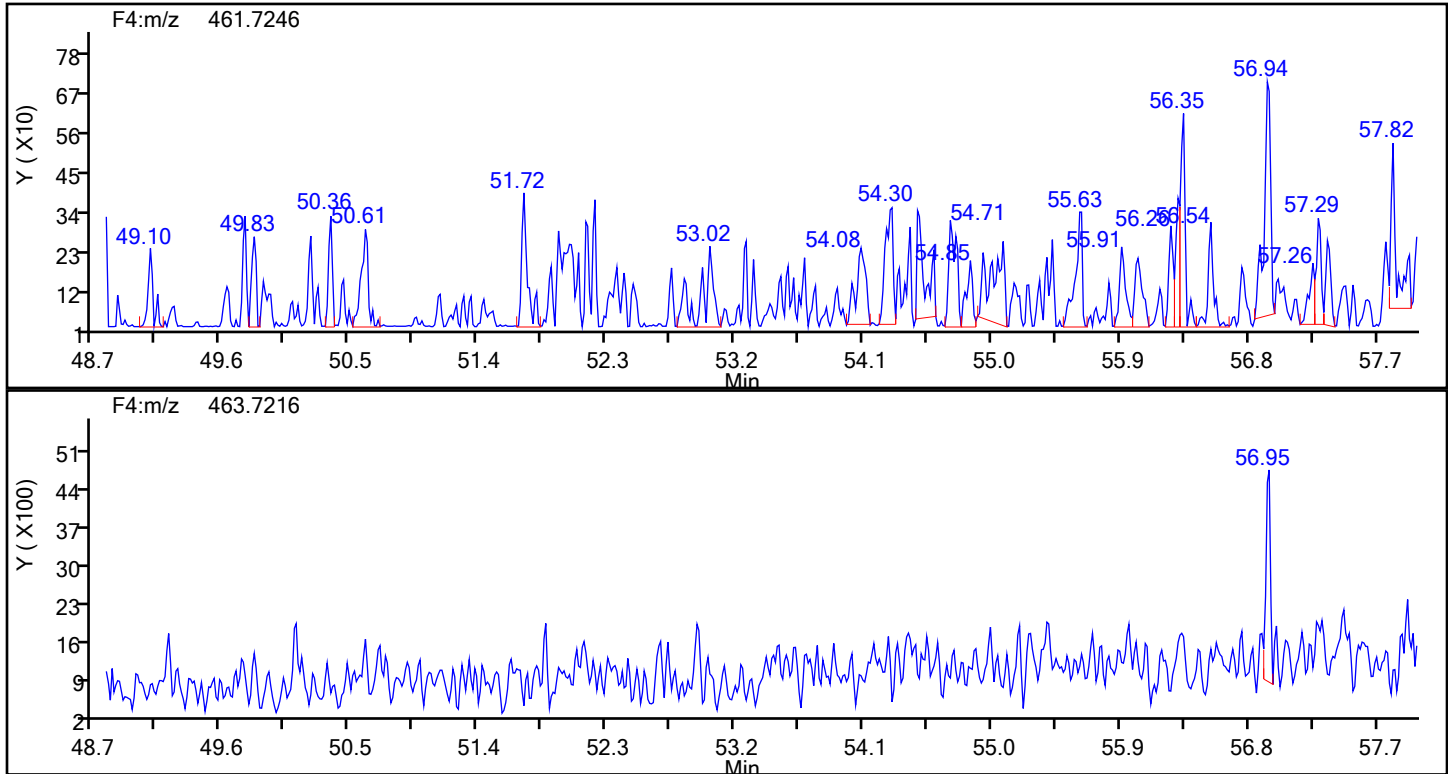


OcPCB F4 Lock Mass

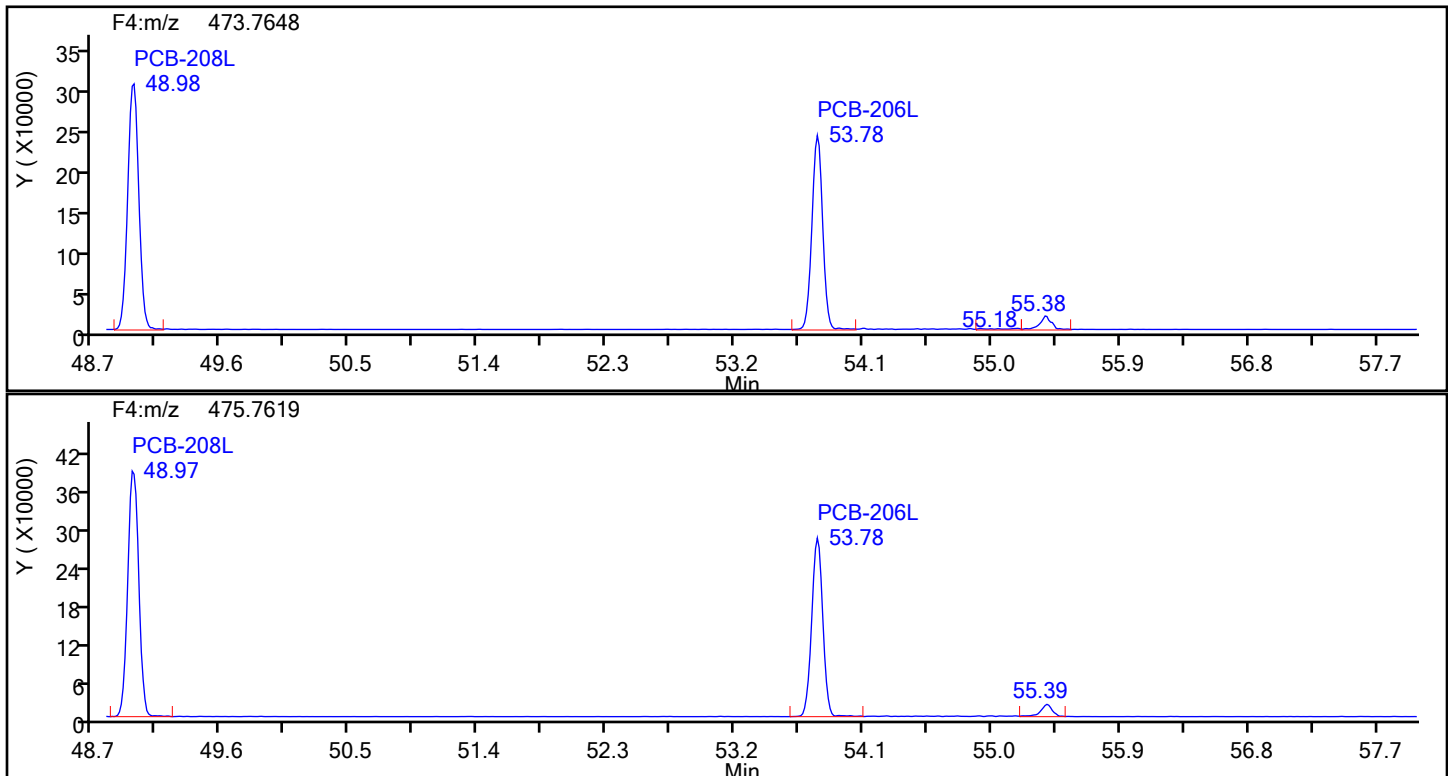


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

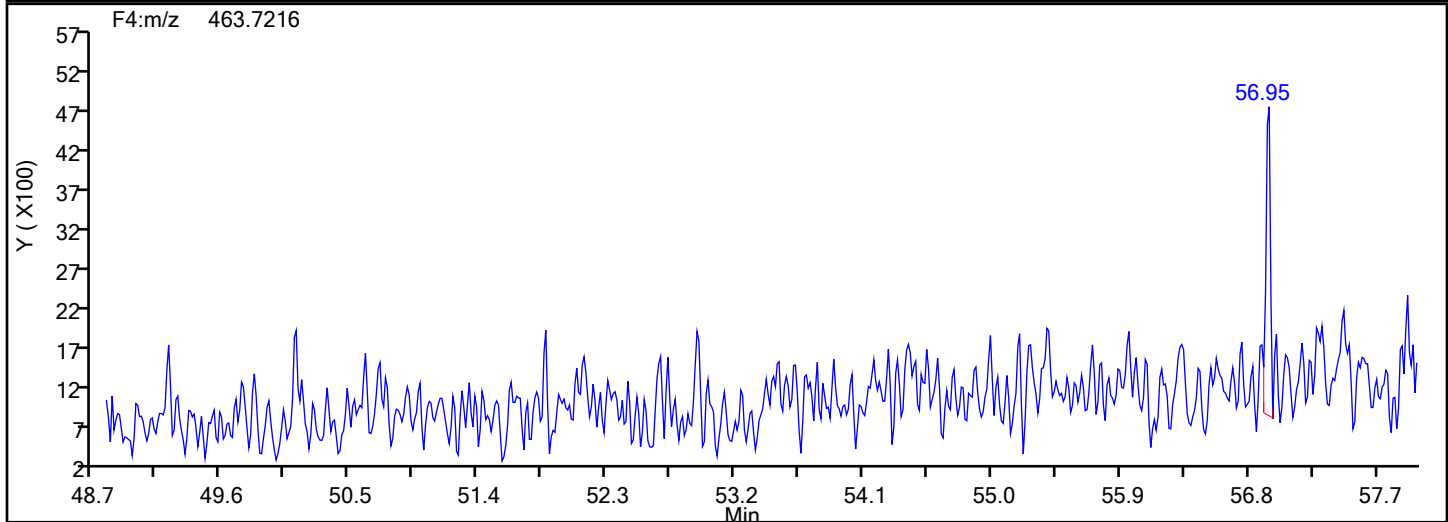
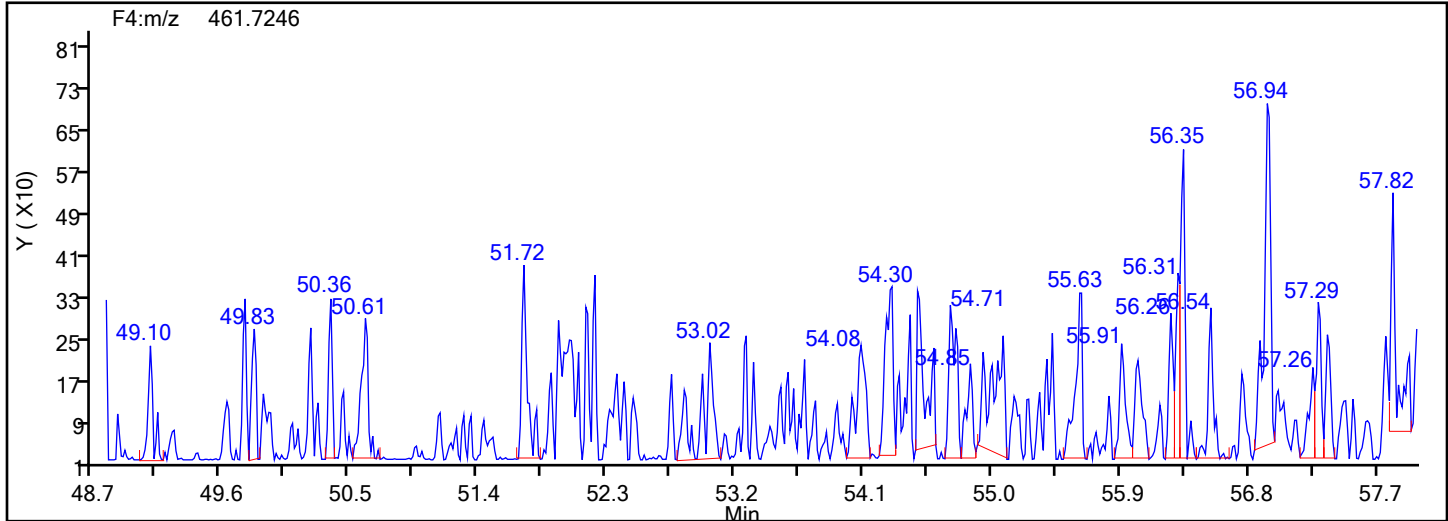


NoPCB F4 Standards

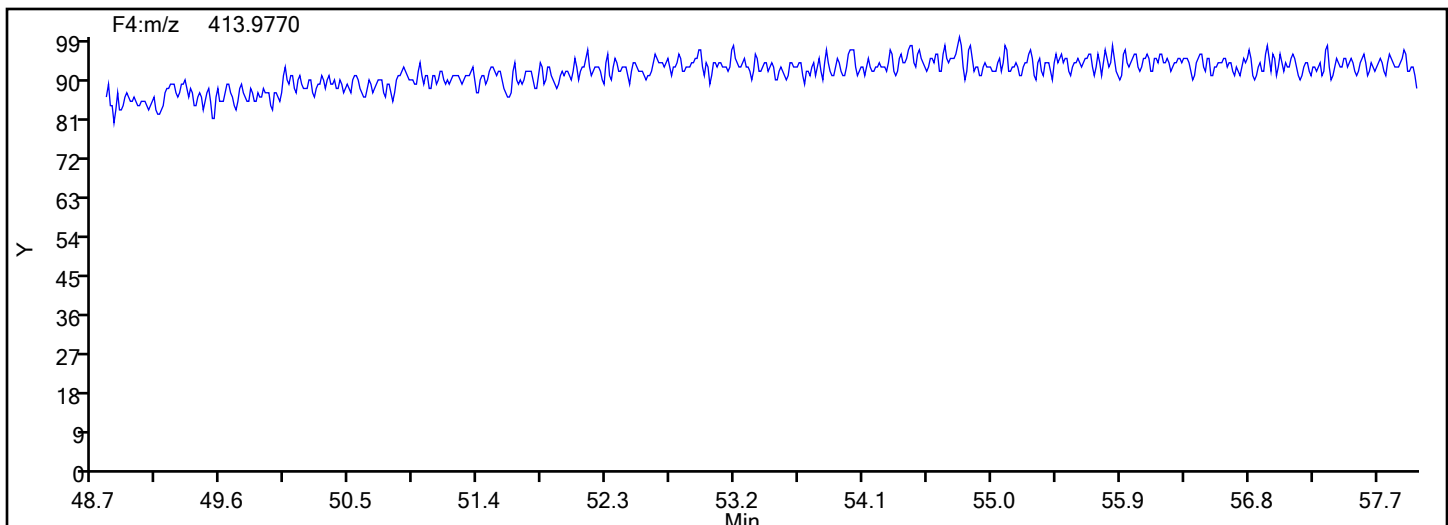


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

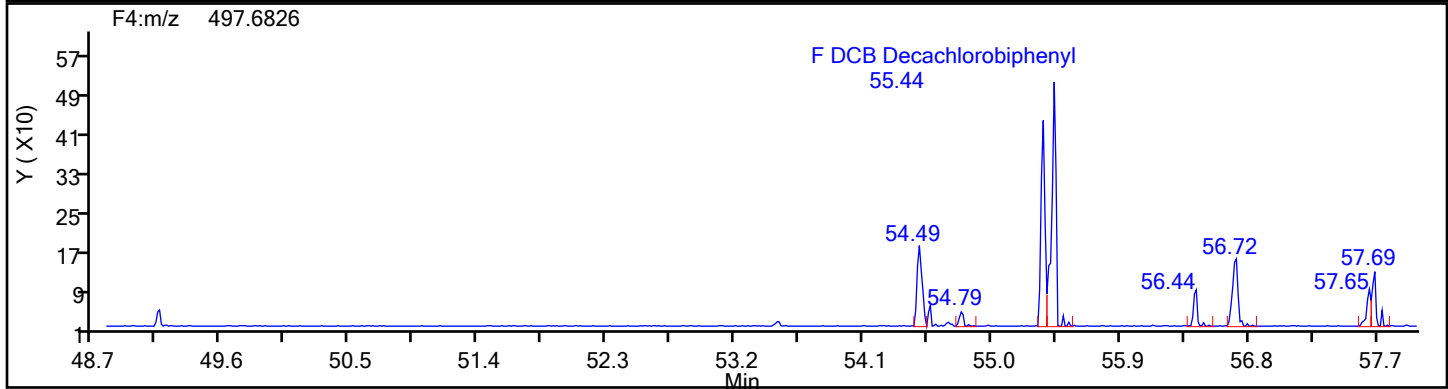
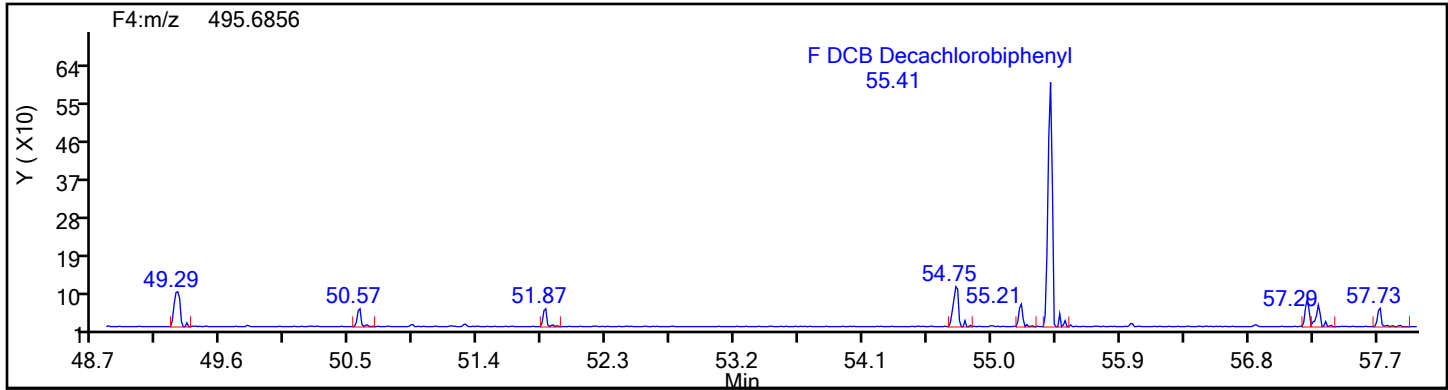


NoPCB F4 Lock Mass

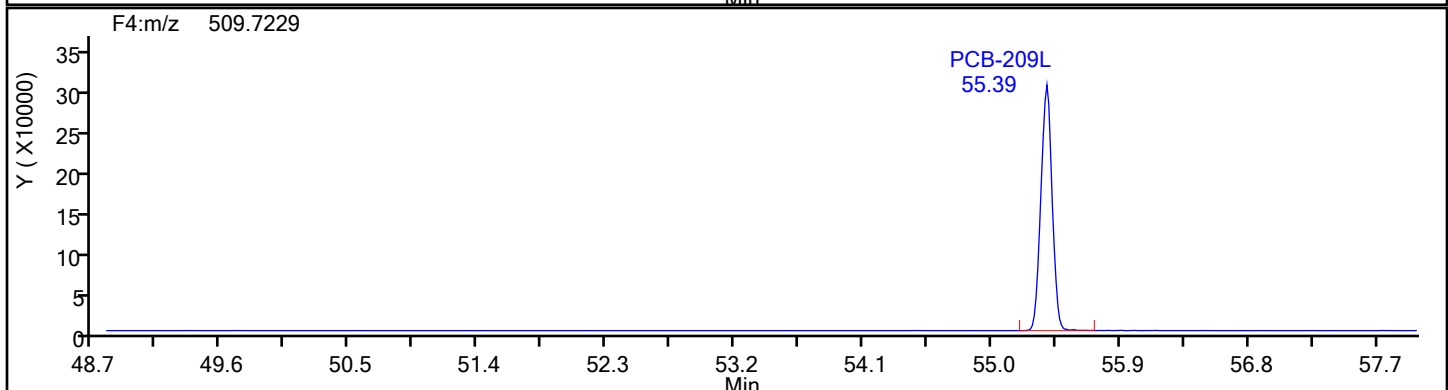
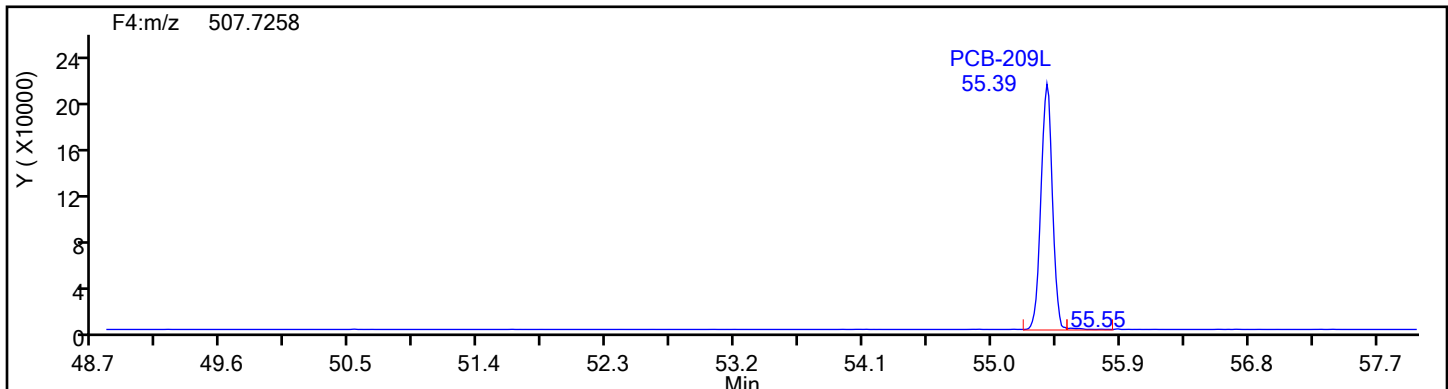


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

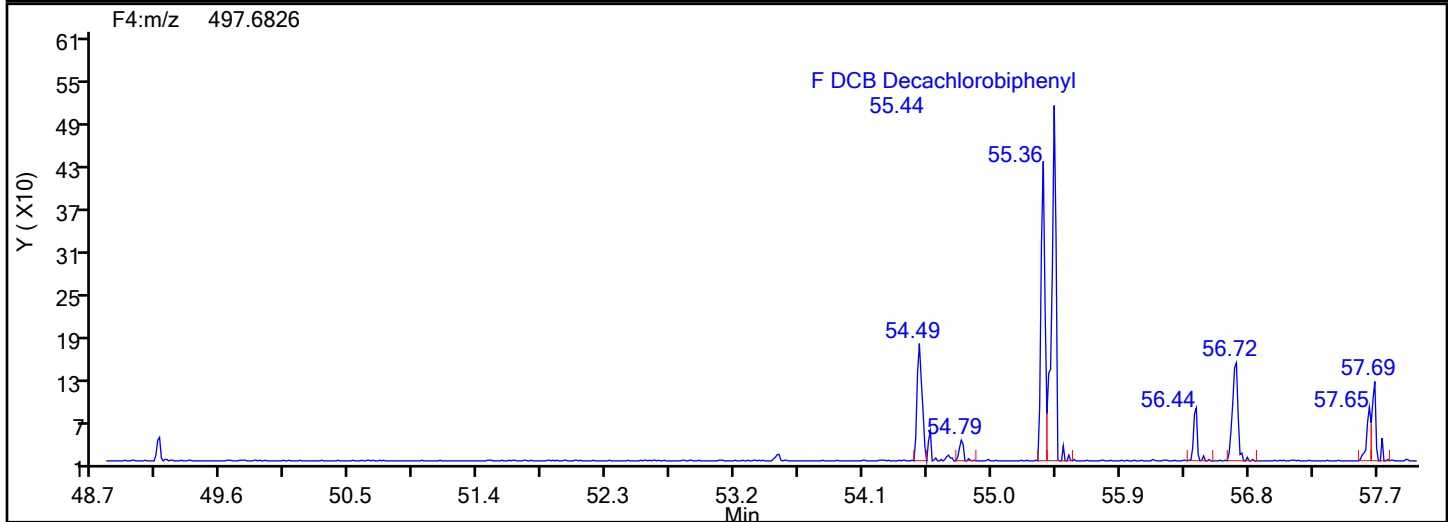
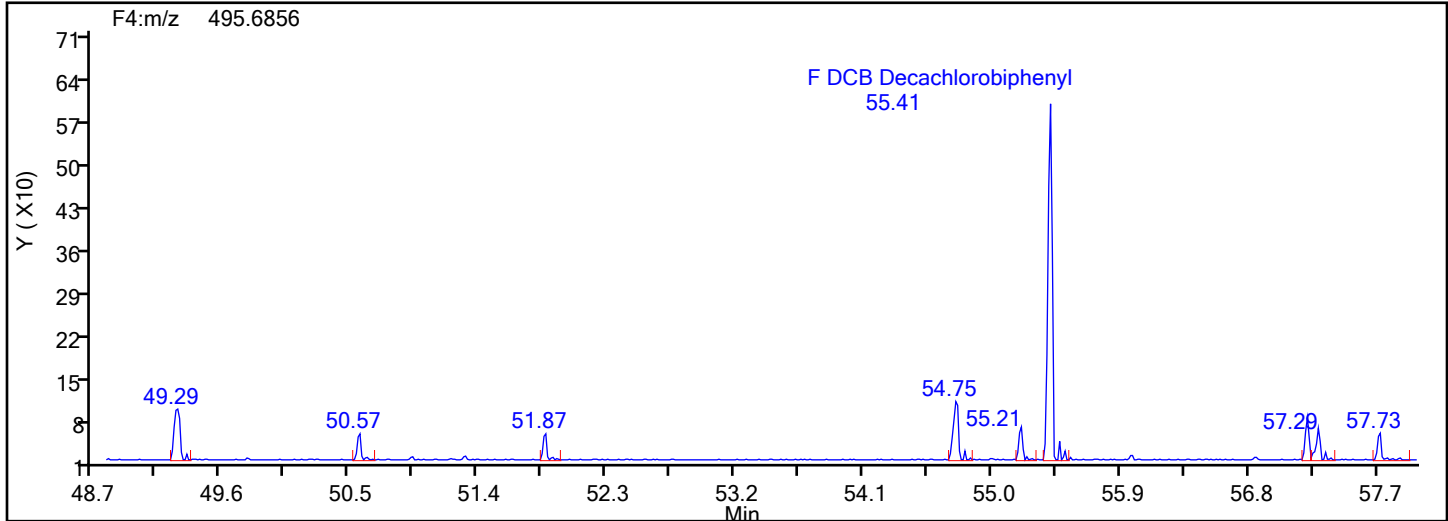


DePCB F4 Standards

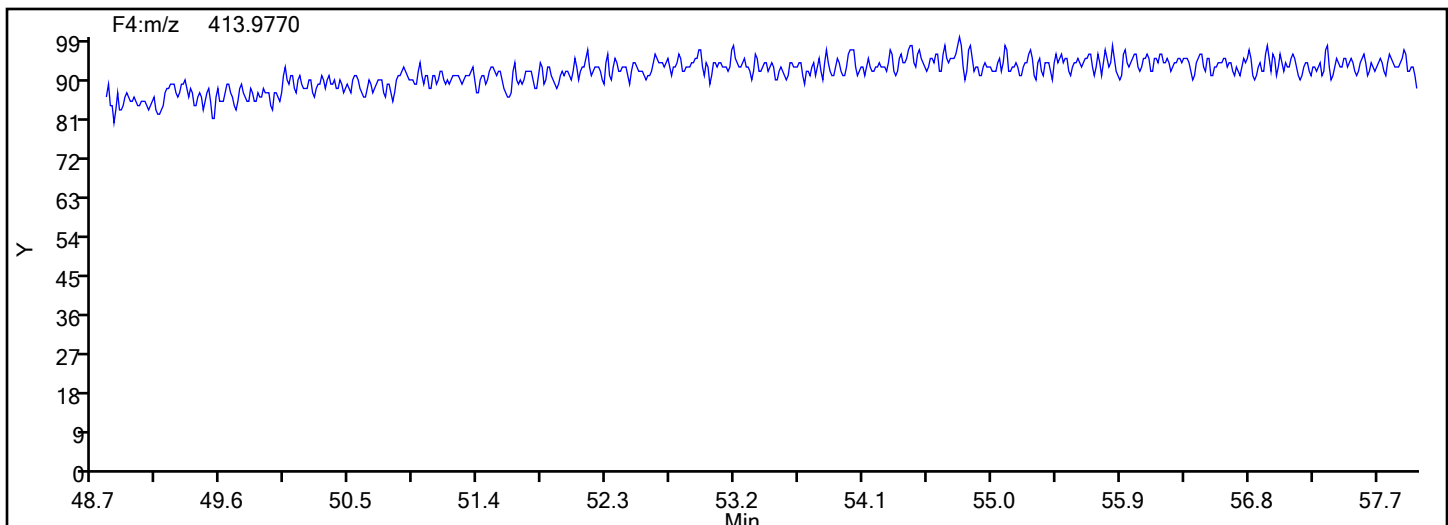


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Injection Date: 16-Jul-2024 06:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Worklist#: 88780 Sample Line#: 9
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-4-d.d
Lims ID: 140-37232-A-4-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 06:00:00 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-009
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 00:01:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 22:06:41

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	49.3	98.63
PCB-28L	100.0	69.6	69.57
PCB-79L	50.0	58.0	116.04
PCB-95L	50.0	55.7	111.39
PCB-111L	100.0	75.9	75.95
PCB-153L	50.0	50.0	100.05
PCB-178L	100.0	78.2	78.24

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 5 - COMBINED</u>	Lab Sample ID: <u>140-37232-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-5-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 07:01</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.476	J S	0.600	0.132	0.0146
37680-65-2	PCB-18	0.458	J C S	0.600	0.285	0.00889
7012-37-5	PCB-28	1.03	B C20	0.600	0.252	0.0154
41464-39-5	PCB-44	3.62	C B	0.900	0.390	0.0214
35693-99-3	PCB-52	0.845		0.300	0.132	0.0227
32598-10-0	PCB-66	0.366		0.300	0.120	0.0166
32598-13-3	PCB-77	ND		0.300	0.126	0.0192
70362-50-4	PCB-81	ND		0.300	0.0960	0.0193
37680-73-2	PCB-101	0.228	J C90	0.900	0.390	0.00760
32598-14-4	PCB-105	0.0851	J q	0.300	0.102	0.0154
74472-37-0	PCB-114	ND		0.300	0.165	0.0144
31508-00-6	PCB-118	0.167	J q	0.300	0.183	0.0147
65510-44-3	PCB-123	ND		0.300	0.171	0.0168
57465-28-8	PCB-126	ND		0.300	0.123	0.0176
38380-07-3	PCB-128	0.0405	J C B	0.600	0.204	0.00353
35065-28-2	PCB-138	0.260	J C129	1.20	0.510	0.00367
35065-27-1	PCB-153	0.153	J C B	0.600	0.249	0.00317
38380-08-4	PCB-156	0.0242	J C q	0.600	0.255	0.00356
69782-90-7	PCB-157	0.0242	J C156 q	0.600	0.255	0.00356
52663-72-6	PCB-167	ND		0.300	0.180	0.00275
32774-16-6	PCB-169	ND		0.300	0.123	0.00269
35065-30-6	PCB-170	0.0116	J q	0.300	0.132	0.000275
35065-29-3	PCB-180	0.0327	J C q	0.600	0.204	0.000201
52663-68-0	PCB-187	0.0199	J q	0.300	0.126	0.000213
39635-31-9	PCB-189	ND		0.300	0.147	0.00396
52663-78-2	PCB-195	ND		0.300	0.159	0.00251
40186-72-9	PCB-206	ND		0.300	0.171	0.0261
2051-24-3	PCB-209	ND		0.300	0.138	0.000959

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 5 - COMBINED</u>	Lab Sample ID: <u>140-37232-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-5-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 07:01</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	59		20-145
208263-77-8	PCB-3L	68		20-145
234432-86-1	PCB-4L	70		20-145
208263-67-6	PCB-15L	77		20-145
234432-87-2	PCB-19L	76		20-145
208263-79-0	PCB-37L	75		20-145
234432-88-3	PCB-54L	94		20-145
105600-23-5	PCB-77L	81		20-145
208461-24-9	PCB-81L	81		20-145
234432-89-4	PCB-104L	96		20-145
208263-62-1	PCB-105L	98		20-145
208263-63-2	PCB-114L	107		20-145
104130-40-7	PCB-118L	95		20-145
208263-64-3	PCB-123L	94		20-145
208263-65-4	PCB-126L	96		20-145
234432-90-7	PCB-155L	89		20-145
208263-68-7	PCB-156L	106	C	20-145
235416-30-5	PCB-157L	106	C156	20-145
208263-69-8	PCB-167L	92		20-145
208263-70-1	PCB-169L	95		20-145
160901-80-4	PCB-170L	95		20-145
234432-91-8	PCB-188L	102		20-145
208263-73-4	PCB-189L	98		20-145
105600-26-8	PCB-202L	93		20-145
234446-64-1	PCB-205L	98		20-145
208263-75-6	PCB-206L	103		20-145
234432-92-9	PCB-208L	100		20-145
105600-27-9	PCB-209L	113		20-145

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Lab Sample ID: 140-37232-5
Matrix: Air	Lab File ID: 140-37232-a-5-d.d
Analysis Method: 23	Date Collected: 06/13/2024 15:30
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 07:01
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	74		20-130
235416-29-2	PCB-111L	81		20-130
232919-67-4	PCB-178L	78		20-130
STL01600	PCB-8L	97		70-130
STL01603	PCB-79L	113		70-130
STL01604	PCB-95L	107		70-130
STL01606	PCB-153L	95		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
 Lims ID: 140-37232-A-5-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
 Sample Type: Client
 Inject. Date: 16-Jul-2024 07:01:00 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033514-010
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 16-Jul-2024 23:58:17 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 23:58:17

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.410	2.331	0.0499	0.0499		RQ
D PCB-1L	11:36	6020473	3.20	1.6108	59.5	59.5	0.4399	0.4399	59.49	
D PCB-3L	13:46	6819301	3.26	1.5891	68.3	68.3	0.4459	0.4459	68.31	
PCB-1	11:37	69842	2.71	1.2191	0.9516	0.9516	0.0492	0.0492		M
PCB-2	13:35	44005	3.13	1.1805	0.6595	0.5806	0.0510	0.0510		RQ
PCB-3	13:46	66475	3.21	1.2206	0.7986	0.7986	0.0495	0.0495		M
S Total Dichlorobiphenyls					25.1	25.0	0.0561	0.0561		RQ
D PCB-4L	14:00	2842250	1.60	0.6475	69.9	69.9	0.2136	0.2136	69.87	
* PCB-9L	15:59	6282161	1.59		100.0	100.0				
\$ PCB-8L	16:52	2347767	1.66	1.2066	48.4	48.4	0.1776	0.1776	96.78	a
D PCB-15L	20:05	5199534	1.64	1.0789	76.7	76.7	0.1282	0.1282	76.71	a
PCB-4	14:02	32374	1.34	1.2818	0.8886	0.8886	0.0609	0.0609		
PCB-10	14:13						0.0588	0.0588		
PCB-9	16:00	13696	1.56	1.4224	0.2652	0.2395	0.0543	0.0543		RQ
PCB-7	16:11	34279	1.56	1.4134	0.6722	0.6032	0.0547	0.0547		RQa
PCB-6	16:25	37894	1.37	1.5421	0.6111	0.6111	0.0501	0.0501		a
PCB-5	16:43						0.0577	0.0577		
PCB-8	16:53	101274	1.76	1.5889	1.585	1.585	0.0486	0.0486		a
PCB-14	18:26						0.0551	0.0551		
PCB-11	19:30	1042811	1.57	1.2951	20.0	20.0	0.0597	0.0597		a
PCB-12	19:46	16826	1.56	1.3358	0.3648	0.3133	0.0579	0.0579		RQa
PCB-13 (C12)	19:46	16826	1.56	1.3358	0.3648	0.3133	0.0579	0.0579		RQa
PCB-15	20:07	47268	1.56	1.2903	0.7046	0.7046	0.0593	0.0593		a
S Total Trichlorobiphenyls					17.8	17.3	0.0467	0.0467		RQ
D PCB-19L	17:12	1956500	1.04	0.6285	76.3	76.3	0.4061	0.4061	76.31	
* PCB-32L	20:31	4079278	1.08		100.0	100.0				
* PCB-31L	22:40	11397700	1.06		100.0	100.0				
\$ PCB-28L	22:57	8835801	1.05	1.0494	73.9	73.9	0.1177	0.1177	73.87	
D PCB-37L	26:54	7495991	1.07	0.8749	75.2	75.2	0.1412	0.1412	75.17	
PCB-19	17:12	7317	1.04	1.2809	0.3391	0.2920	0.0408	0.0408		RQ
PCB-18	19:13	52770	0.95	1.7652	1.528	1.528	0.0296	0.0296		Ma
PCB-30 (C18)	19:13	52770	0.95	1.7652	1.528	1.528	0.0296	0.0296		Ma
PCB-17	19:35	31374	0.97	1.2430	1.290	1.290	0.0421	0.0421		a
PCB-27	19:43	2361	1.04	1.8327	0.0845	0.0658	0.0285	0.0285		RQMa

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:50	3030	1.04	1.6777	0.1087	0.0923	0.0312	0.0312		RQMa
PCB-16	20:04	22973	1.04	1.1286	1.284	1.040	0.0464	0.0464		RQa
PCB-32	20:31	30596	1.09	1.8324	0.8534	0.8534	0.0285	0.0285		Ma
PCB-34	21:36						0.0534	0.0534		
PCB-23	21:45						0.0557	0.0557		
PCB-26	22:10	41902	1.04	1.1255	0.5628	0.4967	0.0535	0.0535		RQ
PCB-29 (C26)	22:10	41902	1.04	1.1255	0.5628	0.4967	0.0535	0.0535		RQ
PCB-25	22:24	28006	1.04	1.2728	0.3429	0.2935	0.0473	0.0473		RQa
PCB-31	22:42	312978	1.04	1.1532	3.620	3.620	0.0522	0.0522		a
PCB-20	22:59	300205	1.08	1.1718	3.418	3.418	0.0514	0.0514		
PCB-28 (C20)	22:59	300205	1.08	1.1718	3.418	3.418	0.0514	0.0514		
PCB-21	23:13	181668	0.91	1.0746	2.255	2.255	0.0560	0.0560		a
PCB-33 (C21)	23:13	181668	0.91	1.0746	2.255	2.255	0.0560	0.0560		a
PCB-22	23:36	107861	0.91	1.1932	1.206	1.206	0.0504	0.0504		
PCB-36	25:05						0.0544	0.0544		
PCB-39	25:27						0.0520	0.0520		
PCB-38	26:01						0.0555	0.0555		
PCB-35	26:32	22005	1.04	1.1297	0.2921	0.2599	0.0533	0.0533		RQ
PCB-37	26:56	50279	0.89	1.1435	0.5866	0.5866	0.0526	0.0526		
S Total Tetrachlorobiphenyls					30.8	30.7	0.0630	0.0630		RQ
D PCB-54L	20:22	2127172	0.83	0.5562	93.7	93.7	0.0597	0.0597	93.75	
* PCB-52L	24:45	5537449	0.79		100.0	100.0				
\$ PCB-79L	32:37	3255828	0.80	1.0018	56.3	56.3	0.4715	0.4715	113	
D PCB-81L	33:37	5614559	0.83	1.2470	81.3	81.3	0.3305	0.3305	81.31	
D PCB-77L	34:10	5939404	0.81	1.3212	81.2	81.2	0.3119	0.3119	81.18	
PCB-54	20:12						0.004123	0.004123		
PCB-50	22:27	24139	0.81	0.8578	0.4871	0.4871	0.0809	0.0809		a
PCB-53 (C50)	22:27	24139	0.81	0.8578	0.4871	0.4871	0.0809	0.0809		a
PCB-45	23:10	184011	0.83	0.8264	3.854	3.854	0.0840	0.0840		Ma
PCB-51 (C45)	23:10	184011	0.83	0.8264	3.854	3.854	0.0840	0.0840		Ma
PCB-46	23:24	7384	0.77	0.7101	0.1975	0.1800	0.0978	0.0978		RQa
PCB-52	24:46	149625	0.80	0.9194	2.817	2.817	0.0755	0.0755		a
PCB-43	24:52						0.0672	0.0672		
PCB-73 (C43)	24:52						0.0672	0.0672		
PCB-49	25:15	84296	0.70	1.0685	1.366	1.366	0.0650	0.0650		a
PCB-69 (C49)	25:15	84296	0.70	1.0685	1.366	1.366	0.0650	0.0650		a
PCB-48	25:31	26258	0.77	0.8399	0.6531	0.5412	0.0827	0.0827		RQa
PCB-44	25:47	678072	0.78	0.9731	12.1	12.1	0.0713	0.0713		a
PCB-47 (C44)	25:47	678072	0.78	0.9731	12.1	12.1	0.0713	0.0713		a
PCB-65 (C44)	25:47	678072	0.78	0.9731	12.1	12.1	0.0713	0.0713		a
PCB-59	26:05	16571	0.88	1.1853	0.2420	0.2420	0.0586	0.0586		Ma
PCB-62 (C59)	26:05	16571	0.88	1.1853	0.2420	0.2420	0.0586	0.0586		Ma
PCB-75 (C59)	26:05	16571	0.88	1.1853	0.2420	0.2420	0.0586	0.0586		Ma
PCB-42	26:17	33338	0.76	0.8097	0.7128	0.7128	0.0858	0.0858		Ma
PCB-40	26:46	62902	0.84	0.8863	1.228	1.228	0.0783	0.0783		M
PCB-41 (C40)	26:46	62902	0.84	0.8863	1.228	1.228	0.0783	0.0783		M
PCB-71 (C40)	26:46	62902	0.84	0.8863	1.228	1.228	0.0783	0.0783		M
PCB-64	27:00	74111	0.83	1.1776	1.089	1.089	0.0590	0.0590		a
PCB-72	27:46						0.0634	0.0634		
PCB-68	28:06	111000	0.89	1.2533	1.533	1.533	0.0554	0.0554		
PCB-57	28:29						0.0642	0.0642		
PCB-58	28:44						0.0524	0.0524		
PCB-67	28:53						0.0488	0.0488		
PCB-63	29:09						0.0618	0.0618		
PCB-61	29:30	169727	0.69	1.2612	2.329	2.329	0.0550	0.0550		
PCB-70 (C61)	29:30	169727	0.69	1.2612	2.329	2.329	0.0550	0.0550		
PCB-74 (C61)	29:30	169727	0.69	1.2612	2.329	2.329	0.0550	0.0550		
PCB-76 (C61)	29:30	169727	0.69	1.2612	2.329	2.329	0.0550	0.0550		
PCB-66	29:51	88681	0.80	1.2583	1.220	1.220	0.0552	0.0552		
PCB-55	29:59						0.0525	0.0525		
PCB-56	30:30	45530	0.82	1.2334	0.6390	0.6390	0.0563	0.0563		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:41	25657	0.76	1.1230	0.3955	0.3955	0.0618	0.0618		
PCB-80	31:06						0.0524	0.0524		
PCB-79	32:38						0.0483	0.0483		
PCB-78	33:11						0.0598	0.0598		
PCB-81	33:38						0.0645	0.0645		
PCB-77	34:12						0.0639	0.0639		
S Total Pentachlorobiphenyls					5.287	4.803	0.0345	0.0345		RQ
D PCB-104L	25:41	3952988	1.58	1.2161	96.2	96.2	0.0634	0.0634	96.19	
\$ PCB-95L	28:38	1526726	1.61	0.7218	53.5	53.5	0.0844	0.0844	107	
* PCB-101L	31:32	3379279	1.62		100.0	100.0				
\$ PCB-111L	34:12	3772314	1.56	1.3699	81.5	81.5	0.0563	0.0563	81.49	
D PCB-123L	36:09	5392803	1.55	0.9731	94.4	94.4	1.031	1.031	94.42	
D PCB-118L	36:29	5615255	1.58	1.0102	94.7	94.7	0.993	0.993	94.71	
D PCB-114L	37:00	6240266	1.61	0.9949	106.9	106.9	1.008	1.008	107	
D PCB-105L	37:40	5485045	1.58	0.9514	98.2	98.2	1.054	1.054	98.23	
* PCB-127L	39:07	5869080	1.59		100.0	100.0				
D PCB-126L	40:45	5332105	1.63	0.9439	96.3	96.3	1.063	1.063	96.25	
PCB-104	25:40						0.0240	0.0240		
PCB-96	26:03						0.0221	0.0221		
PCB-103	27:57						0.0277	0.0277		
PCB-94	28:11						0.0316	0.0316		
PCB-95	28:39	21394	1.36	0.8033	0.6737	0.6737	0.0301	0.0301		
PCB-93	28:50						0.0287	0.0287		
PCB-100 (C93)	28:50						0.0287	0.0287		
PCB-98	28:59						0.0293	0.0293		
PCB-102 (C98)	28:59						0.0293	0.0293		
PCB-88	29:28	3123	1.55	0.8013	0.1958	0.0986	0.0302	0.0302		RQ
PCB-91 (C88)	29:28	3123	1.55	0.8013	0.1958	0.0986	0.0302	0.0302		RQ
PCB-84	29:44	6953	1.55	0.7299	0.3585	0.2410	0.0331	0.0331		RQ
PCB-89	30:11						0.0310	0.0310		
PCB-121	30:34						0.0187	0.0187		
PCB-92	31:00	3639	1.55	0.8546	0.1191	0.1077	0.0283	0.0283		RQ
PCB-90	31:33	28728	1.65	0.9550	0.7610	0.7610	0.0253	0.0253		
PCB-101 (C90)	31:33	28728	1.65	0.9550	0.7610	0.7610	0.0253	0.0253		
PCB-113 (C90)	31:33	28728	1.65	0.9550	0.7610	0.7610	0.0253	0.0253		
PCB-83	32:07	14505	1.65	0.8385	0.4376	0.4376	0.0288	0.0288		
PCB-99 (C83)	32:07	14505	1.65	0.8385	0.4376	0.4376	0.0288	0.0288		
PCB-112	32:14						0.0171	0.0171		
PCB-86	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-87 (C86)	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-97 (C86)	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-109 (C86)	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-119 (C86)	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-125 (C86)	32:42	22638	1.55	1.0473	0.6727	0.5468	0.0231	0.0231		RQM
PCB-85	33:24	5890	1.55	1.0408	0.1831	0.1432	0.0232	0.0232		RQ
PCB-116 (C85)	33:24	5890	1.55	1.0408	0.1831	0.1432	0.0232	0.0232		RQ
PCB-117 (C85)	33:24	5890	1.55	1.0408	0.1831	0.1432	0.0232	0.0232		RQ
PCB-110	33:31	37069	1.62	1.1919	0.7868	0.7868	0.0203	0.0203		
PCB-115 (C110)	33:31	37069	1.62	1.1919	0.7868	0.7868	0.0203	0.0203		
PCB-82	33:51	5417	1.56	0.8303	0.1650	0.1650	0.0291	0.0291		Ma
PCB-111	34:12						0.0199	0.0199		
PCB-120	34:40						0.0164	0.0164		
PCB-108	35:49						0.0517	0.0517		
PCB-124 (C108)	35:49						0.0517	0.0517		
PCB-107	36:04						0.0486	0.0486		
PCB-123	36:11						0.0559	0.0559		
PCB-106	36:18						0.0544	0.0544		
PCB-118	36:30	37765	1.55	1.2055	0.6190	0.5579	0.0490	0.0490		RQ
PCB-122	36:52						0.0616	0.0616		
PCB-114	37:02						0.0479	0.0479		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41	18487	1.55	1.1879	0.3148	0.2837	0.0513	0.0513		RQ
PCB-127	39:09						0.0517	0.0517		
PCB-126	40:47						0.0587	0.0587		
S Total Hexachlorobiphenyls					3.029	2.732	0.009355	0.009355		RQ
D PCB-155L	31:16	3248103	1.28	1.0851	88.6	88.6	0.0483	0.0483	88.58	
\$ PCB-153L	38:20	2124090	1.27	0.9169	47.3	47.3	0.8137	0.8137	94.66	
* PCB-138L	39:35	3989098	1.30		100.0	100.0				
D PCB-167L	42:34	4615657	1.29	1.2572	92.0	92.0	0.5787	0.5787	92.03	
D PCB-156L	43:45	10270956	1.28	1.2106	212.7	212.7	0.6010	0.6010	106	
D PCB-157L (C156L)	43:45	10270956	1.28	1.2106	212.7	212.7	0.6010	0.6010	106	
D PCB-169L	46:58	4689977	1.29	1.2439	94.5	94.5	0.5850	0.5850	94.52	
PCB-155	31:15	283	1.24	0.9444	0.0178	0.009226	0.001845	0.001845		RQM
PCB-152	31:31						0.001761	0.001761		
PCB-150	31:40						0.001720	0.001720		
PCB-136	32:05	3479	1.23	1.0116	0.1059	0.1059	0.001723	0.001723		
PCB-145	32:20						0.001799	0.001799		
PCB-148	33:50						0.002292	0.002292		
PCB-135	34:25	651	1.24	0.7256	0.1076	0.0276	0.002402	0.002402		RQ
PCB-151 (C135)	34:25	651	1.24	0.7256	0.1076	0.0276	0.002402	0.002402		RQ
PCB-154	34:41						0.002144	0.002144		
PCB-144	34:58	71	1.24	0.7852	0.0361	0.002784	0.002219	0.002219		RQM
PCB-147	35:22	17157	1.24	0.8950	0.4456	0.3917	0.0129	0.0129		RQ
PCB-149 (C147)	35:22	17157	1.24	0.8950	0.4456	0.3917	0.0129	0.0129		RQ
PCB-134	35:40						0.0145	0.0145		
PCB-143 (C134)	35:40						0.0145	0.0145		
PCB-139	35:57						0.0132	0.0132		
PCB-140 (C139)	35:57						0.0132	0.0132		
PCB-131	36:10						0.0154	0.0154		
PCB-142	36:19						0.0154	0.0154		
PCB-132	36:40	9293	1.18	0.7489	0.2535	0.2535	0.0155	0.0155		
PCB-133	37:07						0.0143	0.0143		
PCB-165	37:30						0.0113	0.0113		
PCB-146	37:45	3597	1.24	0.9637	0.1038	0.0763	0.0120	0.0120		RQ
PCB-161	37:53						0.0103	0.0103		
PCB-153	38:21	27361	1.08	1.0938	0.5111	0.5111	0.0106	0.0106		
PCB-168 (C153)	38:21	27361	1.08	1.0938	0.5111	0.5111	0.0106	0.0106		
PCB-141	38:35	4473	1.24	0.8755	0.1282	0.1044	0.0132	0.0132		RQ
PCB-130	39:01	1599	1.24	0.7051	0.0612	0.0463	0.0164	0.0164		RQM
PCB-137	39:11	1253	1.24	0.7767	0.0560	0.0330	0.0149	0.0149		RQ
PCB-164	39:17	1337	1.24	1.0382	0.0303	0.0263	0.0111	0.0111		RQ
PCB-129	39:36	40139	1.13	0.9464	0.8666	0.8666	0.0122	0.0122		
PCB-138 (C129)	39:36	40139	1.13	0.9464	0.8666	0.8666	0.0122	0.0122		
PCB-160 (C129)	39:36	40139	1.13	0.9464	0.8666	0.8666	0.0122	0.0122		
PCB-163 (C129)	39:36	40139	1.13	0.9464	0.8666	0.8666	0.0122	0.0122		
PCB-158	39:59	3935	1.24	1.3110	0.0754	0.0613	0.008828	0.008828		RQ
PCB-128	40:55	6490	1.22	0.9829	0.1349	0.1349	0.0118	0.0118		Ma
PCB-166 (C128)	40:55	6490	1.22	0.9829	0.1349	0.1349	0.0118	0.0118		Ma
PCB-159	41:50						0.008353	0.008353		
PCB-162	42:08						0.009207	0.009207		
PCB-167	42:36						0.009163	0.009163		
PCB-156	43:44	4605	1.24	1.1104	0.0954	0.0808	0.0119	0.0119		RQ
PCB-157 (C156)	43:44	4605	1.24	1.1104	0.0954	0.0808	0.0119	0.0119		RQ
PCB-169	46:59						0.008951	0.008951		
S Total Heptachlorobiphenyls					0.5736	0.3825	0.001314	0.001314		RQ
D PCB-188L	36:59	4071068	1.03	1.3133	101.6	101.6	0.0310	0.0310	102	
\$ PCB-178L	40:02	2468661	1.09	1.0313	78.5	78.5	0.0395	0.0395	78.48	
* PCB-180L	45:06	3049853	1.05		100.0	100.0				
D PCB-170L	46:23	2421834	1.05	0.8362	95.0	95.0	0.0487	0.0487	94.96	
D PCB-189L	49:29	5058981	1.08	1.4414	97.5	97.5	0.5026	0.5026	97.52	
PCB-188	37:01						0.000537	0.000537		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22						0.000547	0.000547		
PCB-184	37:52						0.000571	0.000571		
PCB-176	38:14						0.000634	0.000634		
PCB-186	38:42						0.000530	0.000530		
PCB-178	40:04						0.000873	0.000873		
PCB-175	40:42						0.000820	0.000820		
PCB-187	40:59	2367	1.05	1.1018	0.1198	0.0662	0.000709	0.000709		RQ
PCB-182	41:09						0.000845	0.000845		
PCB-183	41:36	2575	1.05	0.9825	0.1034	0.0807	0.000795	0.000795		RQM
PCB-185 (C183)	41:36	2575	1.05	0.9825	0.1034	0.0807	0.000795	0.000795		RQM
PCB-174	41:48	1418	1.05	0.9642	0.0622	0.0453	0.000810	0.000810		RQ
PCB-177	42:15	828	1.05	0.9773	0.0706	0.0261	0.000799	0.000799		RQMa
PCB-181	42:39						0.000822	0.000822		
PCB-171	42:54	501	1.05	0.9336	0.0397	0.0165	0.000837	0.000837		RQ
PCB-173 (C171)	42:54	501	1.05	0.9336	0.0397	0.0165	0.000837	0.000837		RQ
PCB-172	44:30						0.000917	0.000917		
PCB-192	44:45						0.000580	0.000580		
PCB-180	45:06	4137	1.05	1.1676	0.1303	0.1091	0.000669	0.000669		RQ
PCB-193 (C180)	45:06	4137	1.05	1.1676	0.1303	0.1091	0.000669	0.000669		RQ
PCB-191	45:30						0.000606	0.000606		
PCB-170	46:26	1108	1.05	1.1865	0.0475	0.0386	0.000917	0.000917		RQM
PCB-190	46:55						0.000586	0.000586		
PCB-189	49:30						0.0132	0.0132		
S Total Octachlorobiphenyls					0.008703	0.005456	0.006364	0.006364		RQ
D PCB-202L	42:21	2790689	0.91	0.9818	93.2	93.2	0.0577	0.0577	93.20	
* PCB-194L	51:34	3599013	0.93		100.0	100.0				
D PCB-205L	52:02	4162084	0.90	1.1786	98.1	98.1	0.0509	0.0509	98.12	
PCB-202	42:23						0.005593	0.005593		
PCB-201	43:17						0.005940	0.005940		
PCB-204	43:57						0.005526	0.005526		
PCB-197	44:11						0.005057	0.005057		
PCB-200	44:19						0.005753	0.005753		
PCB-198	47:04						0.006661	0.006661		
PCB-199 (C198)	47:04						0.006661	0.006661		
PCB-196	47:44						0.007422	0.007422		
PCB-203	47:56						0.006235	0.006235		
PCB-195	49:16						0.008364	0.008364		
PCB-194	51:36						0.007099	0.007099		
PCB-205	52:04	247	0.89	1.0878	0.008703	0.005456	0.006353	0.006353		RQM
S Total Nonachlorobiphenyls							0.0871	0.0871		
D PCB-208L	49:00	3434666	0.80	0.9576	99.7	99.7	0.2642	0.2642	99.66	
D PCB-206L	53:48	2567988	0.80	0.6947	102.7	102.7	0.3642	0.3642	103	
PCB-208	49:02						0.0744	0.0744		
PCB-207	49:57						0.0712	0.0712		
PCB-206	53:49						0.0871	0.0871		
D PCB-209L	55:24	2723985	0.72	0.6669	113.5	113.5	0.0686	0.0686	113	
DCB Decachlorobiphenyl	55:26						0.003196	0.003196		
S Polychlorinated biphenyls, Total					82.6		0.0342	0.0342		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
Lims ID: 140-37232-A-5-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 07:01:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 23:58:17 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 23:58:17

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:39	-2	0.726	4586989	1705121	1018	2545	1675		
202.0766	11:36	11:39	-2	0.726	1433484	544817	3142	7855	173	3.20(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:48	-1	0.860	5218846	1714066	1018	2545	1684		
202.0766	13:46	13:48	-1	0.860	1600455	520960	3142	7855	166	3.26(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	-2	1.001	51015	19042	351	877	54		M
190.0363	11:37	11:37	-2	1.001	18827	6545	189	472	35	2.71(2.66-3.60)	M
PCB-2											
188.0393	13:35	13:37	-1	0.988	39327	14062	351	877	40		RQ
	Empc Correction				33350	11393	351	877	32		
190.0363	13:35	13:37	-1	0.988	10655	3640	189	472	19	3.69(2.66-3.60)	
PCB-3											
188.0393	13:46	13:46	-1	1.001	50689	15417	351	877	44		M
190.0363	13:46	13:46	-2	1.000	15786	4258	189	472	23	3.21(2.66-3.60)	M
PCB-4L											
234.0406	14:00	14:03	-2	0.876	1747772	571512	568	1420	1006		
236.0376	14:00	14:03	-2	0.876	1094478	365974	244	610	1500	1.60(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	1		3857619	900269	568	1420	1585		
236.0376	15:59	15:59	1		2424542	567334	244	610	2325	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	3	1.205	1464346	245086	568	1420	431		a
236.0376	16:52	16:52	3	1.205	883421	155912	244	610	639	1.66(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:05	20:05	12	1.256	3231554	591095	568	1420	1041		a
236.0376	20:05	20:05	12	1.256	1967980	365672	244	610	1499	1.64(1.33-1.79)	a
PCB-4											
222.0003	14:02	14:01	-1	1.002	18543	5574	116	290	48		
223.9974	14:01	14:01	-2	1.001	13831	4611	177	442	26	1.34(1.33-1.79)	
PCB-10											
222.0003	14:10						116	290			
223.9974	14:10						177	442			
PCB-9											
222.0003	16:00	16:00	1	1.143	8346	2077	116	290	18		RQ
223.9974	16:01	16:00	2	1.144	6824	1491	177	442	8	1.22(1.33-1.79)	
	Empc Correction				5350	1331	177	442	8		
PCB-7											
222.0003	16:11	16:11	2	1.156	20889	4590	116	290	40		RQa
223.9974	16:11	16:11	2	1.155	17315	3693	177	442	21	1.21(1.33-1.79)	a
	Empc Correction				13390	2942	177	442	17		
PCB-6											
222.0003	16:25	16:25	2	1.173	21915	4073	116	290	35		a
223.9974	16:26	16:25	2	1.174	15979	3105	177	442	18	1.37(1.33-1.79)	a
PCB-5											
222.0003	16:41						116	290			
223.9974	16:41						177	442			
PCB-8											
222.0003	16:53	16:53	3	1.205	64595	10405	116	290	90		a
223.9974	16:55	16:53	6	1.208	36679	6746	177	442	38	1.76(1.33-1.79)	a
PCB-14											
222.0003	18:37						116	290			
223.9974	18:37						177	442			
PCB-11											
222.0003	19:30	19:30	13	0.971	637512	121341	116	290	1046		a
223.9974	19:30	19:30	13	0.971	405299	80589	177	442	455	1.57(1.33-1.79)	a
PCB-12											
222.0003	19:46	19:46	11	0.985	13019	1992	116	290	17		RQa
	Empc Correction				10253	2349	116	290	20		a
223.9974	19:44	19:46	9	0.983	6573	1506	177	442	9	1.98(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:46	19:46	11	0.985	13019	1992	116	290	17		RQa
	Empc Correction				10253	2349	116	290	20		a
223.9974	19:44	19:46	9	0.983	6573	1506	177	442	9	1.98(1.33-1.79)	
PCB-15											
222.0003	20:07	20:07	13	1.002	28828	4667	116	290	40		a
223.9974	20:06	20:07	13	1.001	18440	2942	177	442	17	1.56(1.33-1.79)	a
PCB-19L											
268.0016	17:12	17:07	5	0.839	995643	189585	588	1470	322		
269.9986	17:11	17:07	4	0.838	960857	187018	449	1122	417	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:31	20:20	10		2115165	528845	588	1470	899		
269.9986	20:31	20:20	10		1964113	486550	449	1122	1084	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:40	22:35	5		5859145	1424226	754	1885	1889		
269.9986	22:40	22:35	5		5538555	1349721	617	1542	2188	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:57	5	1.012	4520353	1069134	754	1885	1418		
269.9986	22:57	22:57	5	1.012	4315448	1008986	617	1542	1635	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:54	26:58	1	1.187	3872016	814371	754	1885	1080		
269.9986	26:54	26:58	1	1.187	3623975	767062	617	1542	1243	1.07(0.88-1.20)	
PCB-19											
255.9613	17:12	17:13	4	1.000	4910	1000	36	90	28		RQ
	Empc Correction				3730	612	36	90	17		
257.9584	17:13	17:13	5	1.001	3587	589	43	107	14	1.37(0.88-1.20)	
PCB-18											
255.9613	19:13	19:13	18	1.118	25673	5648	36	90	157		Ma
257.9584	19:13	19:13	18	1.118	27097	6133	43	107	143	0.95(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:13	19:13	18	1.118	25673	5648	36	90	157		Ma
257.9584	19:13	19:13	18	1.118	27097	6133	43	107	143	0.95(0.88-1.20)	M
PCB-17											
255.9613	19:35	19:35	12	1.139	15459	3069	36	90	85		a
257.9584	19:35	19:35	11	1.138	15915	3908	43	107	91	0.97(0.88-1.20)	a
PCB-27											
255.9613	19:43	19:46	6	1.147	1204	304	36	90	8		RQMa
257.9584	19:46	19:46	9	1.149	1825	492	43	107	11	0.66(0.88-1.20)	M
	Empc Correction				1157	292	43	107	7		
PCB-24											
255.9613	19:50	19:50	6	1.154	1545	448	36	90	12		RQMa
257.9584	19:49	19:50	5	1.152	2022	669	43	107	16	0.76(0.88-1.20)	M
	Empc Correction				1485	430	43	107	10		
PCB-16											
255.9613	20:04	20:04	12	1.167	11712	2742	36	90	76		RQa
257.9584	20:02	20:04	10	1.165	16638	3408	43	107	79	0.70(0.88-1.20)	a
	Empc Correction				11261	2636	43	107	61		
PCB-32											
255.9613	20:31	20:31	9	1.193	15933	4107	36	90	114		Ma
257.9584	20:31	20:31	9	1.193	14663	3615	43	107	84	1.09(0.88-1.20)	a
PCB-34											
255.9613	21:42						241	602			
257.9584	21:42						140	350			
PCB-23											
255.9613	21:51						241	602			
257.9584	21:51						140	350			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:10	22:04	5	1.289	21362	6005	241	602	25		
257.9584	22:10	22:04	5	1.289	26115	5720	140	350	41	0.82(0.88-1.20)	
Empc Correction					20540	5774	140	350	41		
PCB-29 (C26)											RQ
255.9613	22:10	22:04	5	1.289	21362	6005	241	602	25		
257.9584	22:10	22:04	5	1.289	26115	5720	140	350	41	0.82(0.88-1.20)	
Empc Correction					20540	5774	140	350	41		
PCB-25											RQa
255.9613	22:24	22:24	5	0.832	14278	3544	241	602	15		a
257.9584	22:23	22:24	5	0.832	18436	4215	140	350	30	0.77(0.88-1.20)	
Empc Correction					13728	3407	140	350	24		
PCB-31											a
255.9613	22:42	22:42	5	0.844	159251	39297	241	602	163		a
257.9584	22:42	22:42	5	0.844	153727	35708	140	350	255	1.04(0.88-1.20)	
PCB-20											
255.9613	22:59	22:56	4	0.854	155609	36035	241	602	150		
257.9584	22:59	22:56	4	0.854	144596	33569	140	350	240	1.08(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:56	4	0.854	155609	36035	241	602	150		
257.9584	22:59	22:56	4	0.854	144596	33569	140	350	240	1.08(0.88-1.20)	
PCB-21											a
255.9613	23:13	23:13	8	0.863	86661	17410	241	602	72		a
257.9584	23:13	23:13	8	0.863	95007	18593	140	350	133	0.91(0.88-1.20)	
PCB-33 (C21)											a
255.9613	23:13	23:13	8	0.863	86661	17410	241	602	72		a
257.9584	23:13	23:13	8	0.863	95007	18593	140	350	133	0.91(0.88-1.20)	
PCB-22											
255.9613	23:36	23:38	4	0.877	51422	12930	241	602	54		
257.9584	23:37	23:38	5	0.878	56439	11858	140	350	85	0.91(0.88-1.20)	
PCB-36											
255.9613	25:06						241	602			
257.9584	25:06						140	350			
PCB-39											
255.9613	25:28						241	602			
257.9584	25:28						140	350			
PCB-38											
255.9613	26:02						241	602			
257.9584	26:02						140	350			
PCB-35											RQ
255.9613	26:32	26:30	2	0.986	13945	2736	241	602	11		
Empc Correction					11218	2635	241	602	11		
257.9584	26:32	26:30	2	0.986	10787	2534	140	350	18	1.29(0.88-1.20)	
PCB-37											
255.9613	26:56	26:56	1	1.001	23737	5077	241	602	21		
257.9584	26:56	26:56	1	1.001	26542	5769	140	350	41	0.89(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:22	20:13	11	0.823	962954	217654	105	262	2073		
303.9597	20:22	20:13	11	0.823	1164218	258559	30	75	8619	0.83(0.65-0.89)	
PCB-52L											
301.9626	24:45	24:42	3		2444689	551562	848	2120	650		
303.9597	24:45	24:42	3		3092760	698106	1212	3030	576	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:37	32:37	1	0.970	1442693	279015	848	2120	329		
303.9597	32:36	32:37	0	0.970	1813135	343015	1212	3030	283	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:37	33:39	1	1.358	2538549	492225	848	2120	580		
303.9597	33:37	33:39	1	1.358	3076010	594898	1212	3030	491	0.83(0.65-0.89)	
PCB-77L											
301.9626	34:10	34:14	0	1.381	2649409	485775	848	2120	573		
303.9597	34:10	34:14	0	1.381	3289995	607700	1212	3030	501	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12						6	15			
291.9194	20:12						4	10			
PCB-50											
289.9224	22:27	22:27	5	1.102	10790	2748	46	115	60		a
291.9194	22:27	22:27	5	1.102	13349	3377	257	642	13	0.81(0.65-0.89)	a
PCB-53 (C50)											
289.9224	22:27	22:27	5	1.102	10790	2748	46	115	60		a
291.9194	22:27	22:27	5	1.102	13349	3377	257	642	13	0.81(0.65-0.89)	a
PCB-45											
289.9224	23:10	23:10	5	1.137	83424	16824	46	115	366		Ma
291.9194	23:10	23:10	5	1.137	100587	22871	257	642	89	0.83(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:10	23:10	5	1.137	83424	16824	46	115	366		Ma
291.9194	23:10	23:10	5	1.137	100587	22871	257	642	89	0.83(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:24	4	1.149	3930	995	46	115	22		RQa
	Empc Correction				3212	916	46	115	20		a
291.9194	23:24	23:24	4	1.149	4172	1190	257	642	5	0.94(0.65-0.89)	
PCB-52											
289.9224	24:46	24:46	2	1.216	66497	14819	46	115	322		a
291.9194	24:47	24:46	3	1.217	83128	20305	257	642	79	0.80(0.65-0.89)	a
PCB-43											
289.9224	25:06						46	115			
291.9194	25:06						257	642			
PCB-73 (C43)											
289.9224	25:06						46	115			
291.9194	25:06						257	642			
PCB-49											
289.9224	25:15	25:15	6	1.240	34585	8741	46	115	190		a
291.9194	25:15	25:15	5	1.240	49711	10138	257	642	39	0.70(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-69 (C49)											a
289.9224	25:15	25:15	6	1.240	34585	8741	46	115	190		a
291.9194	25:15	25:15	5	1.240	49711	10138	257	642	39	0.70(0.65-0.89)	
PCB-48											RQa
289.9224	25:31	25:31	2	1.253	11423	3022	46	115	66		a
291.9194	25:31	25:31	2	1.253	20267	4765	257	642	19	0.56(0.65-0.89)	
Empc Correction					14835	3924	257	642	15		
PCB-44											a
289.9224	25:47	25:47	3	1.266	296892	62887	46	115	1367		a
291.9194	25:48	25:47	4	1.267	381180	80529	257	642	313	0.78(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:47	25:47	3	1.266	296892	62887	46	115	1367		a
291.9194	25:48	25:47	4	1.267	381180	80529	257	642	313	0.78(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:47	25:47	3	1.266	296892	62887	46	115	1367		a
291.9194	25:48	25:47	4	1.267	381180	80529	257	642	313	0.78(0.65-0.89)	
PCB-59											Ma
289.9224	26:05	26:05	2	1.281	7757	1432	46	115	31		M
291.9194	26:06	26:05	3	1.282	8814	2474	257	642	10	0.88(0.65-0.89)	
PCB-62 (C59)											Ma
289.9224	26:05	26:05	2	1.281	7757	1432	46	115	31		M
291.9194	26:06	26:05	3	1.282	8814	2474	257	642	10	0.88(0.65-0.89)	
PCB-75 (C59)											Ma
289.9224	26:05	26:05	2	1.281	7757	1432	46	115	31		M
291.9194	26:06	26:05	3	1.282	8814	2474	257	642	10	0.88(0.65-0.89)	
PCB-42											Ma
289.9224	26:17	26:17	1	1.290	14390	3164	46	115	69		M
291.9194	26:16	26:17	1	1.290	18948	4043	257	642	16	0.76(0.65-0.89)	
PCB-40											M
289.9224	26:46	26:47	1	1.314	28675	5239	46	115	114		M
291.9194	26:47	26:47	1	1.315	34227	5795	257	642	23	0.84(0.65-0.89)	M
PCB-41 (C40)											M
289.9224	26:46	26:47	1	1.314	28675	5239	46	115	114		M
291.9194	26:47	26:47	1	1.315	34227	5795	257	642	23	0.84(0.65-0.89)	M
PCB-71 (C40)											M
289.9224	26:46	26:47	1	1.314	28675	5239	46	115	114		M
291.9194	26:47	26:47	1	1.315	34227	5795	257	642	23	0.84(0.65-0.89)	M
PCB-64											a
289.9224	27:00	27:00	2	1.326	33574	7372	46	115	160		a
291.9194	26:59	27:00	1	1.325	40537	8489	257	642	33	0.83(0.65-0.89)	
PCB-72											
289.9224	27:47						46	115			
291.9194	27:47						257	642			
PCB-68											
289.9224	28:06	28:04	1	0.836	52125	10463	46	115	227		
291.9194	28:05	28:04	1	0.835	58875	12945	257	642	50	0.89(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:29						46	115			
291.9194	28:29						257	642			
PCB-58											
289.9224	28:44						46	115			
291.9194	28:44						257	642			
PCB-67											
289.9224	28:54						46	115			
291.9194	28:54						257	642			
PCB-63											
289.9224	29:09						46	115			
291.9194	29:09						257	642			
PCB-61											
289.9224	29:30	29:30	0	0.878	69105	9631	46	115	209		
291.9194	29:31	29:30	1	0.878	100622	15575	257	642	61	0.69(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:30	29:30	0	0.878	69105	9631	46	115	209		
291.9194	29:31	29:30	1	0.878	100622	15575	257	642	61	0.69(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:30	29:30	0	0.878	69105	9631	46	115	209		
291.9194	29:31	29:30	1	0.878	100622	15575	257	642	61	0.69(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:30	29:30	0	0.878	69105	9631	46	115	209		
291.9194	29:31	29:30	1	0.878	100622	15575	257	642	61	0.69(0.65-0.89)	
PCB-66											
289.9224	29:51	29:50	1	0.888	39454	7428	46	115	161		
291.9194	29:50	29:50	1	0.887	49227	9677	257	642	38	0.80(0.65-0.89)	
PCB-55											
289.9224	29:59						46	115			
291.9194	29:59						257	642			
PCB-56											
289.9224	30:30	30:30	1	0.908	20548	3691	46	115	80		
291.9194	30:31	30:30	1	0.908	24982	5660	257	642	22	0.82(0.65-0.89)	
PCB-60											
289.9224	30:41	30:43	-1	0.913	11055	2279	46	115	50		
291.9194	30:43	30:43	1	0.914	14602	3281	257	642	13	0.76(0.65-0.89)	
PCB-80											
289.9224	31:06						46	115			
291.9194	31:06						257	642			
PCB-79											
289.9224	32:38						46	115			
291.9194	32:38						257	642			
PCB-78											
289.9224	33:11						46	115			
291.9194	33:11						257	642			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:38						46	115			
291.9194	33:38						257	642			
PCB-77											
289.9224	34:10						46	115			
291.9194	34:10						257	642			
PCB-104L											
337.9207	25:41	25:38	2	0.814	2421249	545185	125	312	4361		
339.9178	25:41	25:38	2	0.814	1531739	352231	94	235	3747	1.58(1.32-1.78)	
PCB-95L											
337.9207	28:38	28:36	1	1.115	941277	197797	125	312	1582		
339.9178	28:38	28:36	1	1.115	585449	122270	94	235	1301	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:32	31:31	1		2089592	431554	125	312	3452		
339.9178	31:32	31:31	1		1289687	277813	94	235	2955	1.62(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	1	1.085	2299585	457318	125	312	3659		
339.9178	34:12	34:11	1	1.085	1472729	290976	94	235	3095	1.56(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	3279545	651511	2969	7422	219		
339.9178	36:09	36:09	0	1.147	2113258	419095	1509	3772	278	1.55(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	0	1.157	3436548	665622	2969	7422	224		
339.9178	36:29	36:29	0	1.157	2178707	421105	1509	3772	279	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:00	37:00	0	1.174	3853226	768534	2969	7422	259		
339.9178	37:00	37:00	0	1.174	2387040	468678	1509	3772	311	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	0	1.195	3362674	641645	2969	7422	216		
339.9178	37:40	37:40	0	1.195	2122371	411902	1509	3772	273	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3600350	689483	2969	7422	232		
339.9178	39:07	39:07	0		2268730	426641	1509	3772	283	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:45	40:45	0	1.292	3301586	613942	2969	7422	207		
339.9178	40:44	40:45	-1	1.292	2030519	382485	1509	3772	253	1.63(1.32-1.78)	
PCB-104											
325.8804	25:42						69	172			
327.8775	25:42						18	45			
PCB-96											
325.8804	26:05						69	172			
327.8775	26:05						18	45			
PCB-103											
325.8804	28:00						69	172			
327.8775	28:00						18	45			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-94											
325.8804	28:13						69	172			
327.8775	28:13						18	45			
PCB-95											
325.8804	28:39	28:39	1	1.116	12314	2649	69	172	38		
327.8775	28:40	28:39	2	1.116	9080	2031	18	45	113	1.36(1.32-1.78)	
PCB-93											
325.8804	28:53						69	172			
327.8775	28:53						18	45			
PCB-100 (C93)											
325.8804	28:53						69	172			
327.8775	28:53						18	45			
PCB-98											
325.8804	29:02						69	172			
327.8775	29:02						18	45			
PCB-102 (C98)											
325.8804	29:02						69	172			
327.8775	29:02						18	45			
PCB-88											
325.8804	29:28	29:30	-1	1.148	4978	800	69	172	12		RQ
	Empc Correction				1898	985	69	172	14		
327.8775	29:30	29:30	1	1.149	1225	636	18	45	35	4.06(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:28	29:30	-1	1.148	4978	800	69	172	12		RQ
	Empc Correction				1898	985	69	172	14		
327.8775	29:30	29:30	1	1.149	1225	636	18	45	35	4.06(1.32-1.78)	
PCB-84											
325.8804	29:44	29:44	0	1.158	7617	1347	69	172	20		RQ
	Empc Correction				4226	1799	69	172	26		
327.8775	29:44	29:44	1	1.158	2727	1161	18	45	65	2.79(1.32-1.78)	
PCB-89											
325.8804	30:14						69	172			
327.8775	30:14						18	45			
PCB-121											
325.8804	30:33						69	172			
327.8775	30:33						18	45			
PCB-92											
325.8804	31:00	30:58	2	0.858	2212	672	69	172	10		RQ
327.8775	31:00	30:58	1	0.857	1811	402	18	45	22	1.22(1.32-1.78)	
	Empc Correction				1427	433	18	45	24		
PCB-90											
325.8804	31:33	31:33	2	1.229	17907	4581	69	172	66		
327.8775	31:34	31:33	3	1.229	10821	2109	18	45	117	1.65(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:33	31:33	2	1.229	17907	4581	69	172	66		
327.8775	31:34	31:33	3	1.229	10821	2109	18	45	117	1.65(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											
325.8804	31:33	31:33	2	1.229	17907	4581	69	172	66		
327.8775	31:34	31:33	3	1.229	10821	2109	18	45	117	1.65(1.32-1.78)	
PCB-83											
325.8804	32:07	32:08	0	1.251	9025	1427	69	172	21		
327.8775	32:07	32:08	0	1.251	5480	1214	18	45	67	1.65(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:08	0	1.251	9025	1427	69	172	21		
327.8775	32:07	32:08	0	1.251	5480	1214	18	45	67	1.65(1.32-1.78)	
PCB-112											
325.8804	32:17						69	172			
327.8775	32:17						18	45			
PCB-86											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:42	32:45	6	1.274	18972	1984	69	172	29		RQM
	Empc Correction				13760	1728	69	172	25		M
327.8775	32:45	32:45	8	1.275	8878	1115	18	45	62	2.14(1.32-1.78)	M
PCB-85											
325.8804	33:24	33:24	4	1.301	5225	866	69	172	13		RQ
	Empc Correction				3580	773	69	172	11		
327.8775	33:23	33:24	4	1.300	2310	499	18	45	28	2.26(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:24	33:24	4	1.301	5225	866	69	172	13		RQ
	Empc Correction				3580	773	69	172	11		
327.8775	33:23	33:24	4	1.300	2310	499	18	45	28	2.26(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:24	33:24	4	1.301	5225	866	69	172	13		RQ
	Empc Correction				3580	773	69	172	11		
327.8775	33:23	33:24	4	1.300	2310	499	18	45	28	2.26(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-110											
325.8804	33:31	33:32	-2	1.306	22919	4317	69	172	63		
327.8775	33:31	33:32	-2	1.306	14150	3076	18	45	171	1.62(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:31	33:32	-2	1.306	22919	4317	69	172	63		
327.8775	33:31	33:32	-2	1.306	14150	3076	18	45	171	1.62(1.32-1.78)	
PCB-82											
325.8804	33:51	33:53	0	1.318	3297	854	69	172	12		Ma
327.8775	33:53	33:53	2	1.320	2120	513	18	45	29	1.56(1.32-1.78)	a M
PCB-111											
325.8804	34:15						69	172			
327.8775	34:15						18	45			
PCB-120											
325.8804	34:43						69	172			
327.8775	34:43						18	45			
PCB-108											
325.8804	35:53						205	512			
327.8775	35:53						52	130			
PCB-124 (C108)											
325.8804	35:53						205	512			
327.8775	35:53						52	130			
PCB-107											
325.8804	36:07						205	512			
327.8775	36:07						52	130			
PCB-123											
325.8804	36:11						205	512			
327.8775	36:11						52	130			
PCB-106											
325.8804	36:18						205	512			
327.8775	36:18						52	130			
PCB-118											
325.8804	36:30	36:30	0	1.001	27091	5575	205	512	27		RQ
	Empc Correction				22955	3856	205	512	19		
327.8775	36:30	36:30	0	1.001	14810	2488	52	130	48	1.83(1.32-1.78)	
PCB-122											
325.8804	36:52						205	512			
327.8775	36:52						52	130			
PCB-114											
325.8804	37:02						205	512			
327.8775	37:02						52	130			
PCB-105											
325.8804	37:41	37:42	0	1.000	13260	2925	205	512	14		RQ
	Empc Correction				11237	3124	205	512	15		
327.8775	37:40	37:42	-1	1.000	7250	2016	52	130	39	1.83(1.32-1.78)	
PCB-127											
325.8804	39:09						205	512			
327.8775	39:09						52	130			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126											
325.8804	40:46						205	512			
327.8775	40:46						52	130			
PCB-155L											
371.8817	31:16	31:15	1	0.790	1821340	384741	64	160	6012		
373.8788	31:16	31:15	1	0.790	1426763	303916	85	212	3575	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:19	0	0.900	1187815	228036	1484	3710	154		
373.8788	38:20	38:19	0	0.900	936275	181627	837	2092	217	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:36	0		2257405	453396	1484	3710	306		
373.8788	39:35	39:36	0		1731693	344013	837	2092	411	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:34	-1	1.075	2601762	494887	1484	3710	333		
373.8788	42:34	42:34	-1	1.075	2013895	385330	837	2092	460	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:45	43:43	1	1.105	5773684	766812	1484	3710	517		
373.8788	43:45	43:43	1	1.105	4497272	598771	837	2092	715	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:45	43:43	1	1.105	5773684	766812	1484	3710	517		
373.8788	43:45	43:43	1	1.105	4497272	598771	837	2092	715	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:57	0	1.186	2640368	493374	1484	3710	332		
373.8788	46:58	46:57	0	1.186	2049609	371338	837	2092	444	1.29(1.05-1.43)	
PCB-155											
359.8415	31:15	31:19	-2	0.999	157	44	3	7	15		RQM
361.8385	31:19	31:19	2	1.002	388	125	2	5	63	0.40(1.05-1.43)	M
	Empc Correction				126	35	2	5	18		
PCB-152											
359.8415	31:32						3	7			
361.8385	31:32						2	5			
PCB-150											
359.8415	31:41						3	7			
361.8385	31:41						2	5			
PCB-136											
359.8415	32:05	32:06	1	1.026	1920	494	3	7	165		
361.8385	32:05	32:06	1	1.026	1559	646	2	5	323	1.23(1.05-1.43)	
PCB-145											
359.8415	32:21						3	7			
361.8385	32:21						2	5			
PCB-148											
359.8415	33:51						3	7			
361.8385	33:51						2	5			
PCB-135											
359.8415	34:25	34:27	-1	1.101	2245	620	3	7	207		RQ
	Empc Correction				360	97	3	7	32		
361.8385	34:27	34:27	1	1.102	291	79	2	5	40	7.71(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-151 (C135)											RQ
359.8415	34:25	34:27	-1	1.101	2245	620	3	7	207		
	Empc Correction				360	97	3	7	32		
361.8385	34:27	34:27	1	1.102	291	79	2	5	40	7.71(1.05-1.43)	
PCB-154											
359.8415	34:41						3	7			
361.8385	34:41						2	5			
PCB-144											RQM
359.8415	34:58	35:00	-2	1.118	890	322	3	7	107		
	Empc Correction				39	18	3	7	6		
361.8385	35:00	35:00	0	1.119	32	15	2	5	8	27.81(1.05-1.43)	M
PCB-147											RQ
359.8415	35:22	35:19	1	1.131	9498	1936	35	87	55		
361.8385	35:21	35:19	-1	1.130	10020	2218	1	2	2218	0.95(1.05-1.43)	
	Empc Correction				7659	1561	1	2	1561		
PCB-149 (C147)											RQ
359.8415	35:22	35:19	1	1.131	9498	1936	35	87	55		
361.8385	35:21	35:19	-1	1.130	10020	2218	1	2	2218	0.95(1.05-1.43)	
	Empc Correction				7659	1561	1	2	1561		
PCB-134											
359.8415	35:41						35	87			
361.8385	35:41						1	2			
PCB-143 (C134)											
359.8415	35:41						35	87			
361.8385	35:41						1	2			
PCB-139											
359.8415	35:58						35	87			
361.8385	35:58						1	2			
PCB-140 (C139)											
359.8415	35:58						35	87			
361.8385	35:58						1	2			
PCB-131											
359.8415	36:11						35	87			
361.8385	36:11						1	2			
PCB-142											
359.8415	36:19						35	87			
361.8385	36:19						1	2			
PCB-132											
359.8415	36:40	36:39	2	1.173	5031	951	35	87	27		
361.8385	36:40	36:39	1	1.172	4262	952	1	2	952	1.18(1.05-1.43)	
PCB-133											
359.8415	37:07						35	87			
361.8385	37:07						1	2			
PCB-165											
359.8415	37:29						35	87			
361.8385	37:29						1	2			

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-146											RQ
359.8415	37:45	37:45	0	0.887	3288	1088	35	87	31		
	Empc Correction				1991	634	35	87	18		
361.8385	37:46	37:45	1	0.887	1606	512	1	2	512	2.05(1.05-1.43)	
PCB-161											
359.8415	37:52						35	87			
361.8385	37:52						1	2			
PCB-153											
359.8415	38:21	38:20	-2	0.901	14216	3140	35	87	90		
361.8385	38:21	38:20	-2	0.901	13145	2634	1	2	2634	1.08(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:21	38:20	-2	0.901	14216	3140	35	87	90		
361.8385	38:21	38:20	-2	0.901	13145	2634	1	2	2634	1.08(1.05-1.43)	
PCB-141											RQ
359.8415	38:35	38:35	1	0.906	3495	807	35	87	23		
	Empc Correction				2476	672	35	87	19		
361.8385	38:37	38:35	3	0.907	1997	542	1	2	542	1.75(1.05-1.43)	
PCB-130											RQM
359.8415	39:01	38:58	1	0.916	1399	258	35	87	7		
	Empc Correction				885	195	35	87	6		
361.8385	38:58	38:58	-2	0.915	714	158	1	2	158	1.96(1.05-1.43)	M
PCB-137											RQ
359.8415	39:11	39:12	0	0.920	694	273	35	87	8		
361.8385	39:13	39:12	1	0.921	1436	424	1	2	424	0.48(1.05-1.43)	
	Empc Correction				559	220	1	2	220		
PCB-164											RQ
359.8415	39:17	39:19	-2	0.923	941	192	35	87	5		
	Empc Correction				740	203	35	87	6		
361.8385	39:19	39:19	0	0.923	597	164	1	2	164	1.58(1.05-1.43)	
PCB-129											
359.8415	39:36	39:38	-2	0.930	21292	4098	35	87	117		
361.8385	39:37	39:38	-1	0.931	18847	3915	1	2	3915	1.13(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:36	39:38	-2	0.930	21292	4098	35	87	117		
361.8385	39:37	39:38	-1	0.931	18847	3915	1	2	3915	1.13(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:36	39:38	-2	0.930	21292	4098	35	87	117		
361.8385	39:37	39:38	-1	0.931	18847	3915	1	2	3915	1.13(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:36	39:38	-2	0.930	21292	4098	35	87	117		
361.8385	39:37	39:38	-1	0.931	18847	3915	1	2	3915	1.13(1.05-1.43)	
PCB-158											RQ
359.8415	39:59	40:00	-1	0.939	3078	776	35	87	22		
	Empc Correction				2178	677	35	87	19		
361.8385	40:01	40:00	1	0.940	1757	546	1	2	546	1.75(1.05-1.43)	
PCB-128											Ma
359.8415	40:55	40:51	4	0.961	3573	749	35	87	21		a
361.8385	40:51	40:51	1	0.960	2917	567	1	2	567	1.22(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-166 (C128)											Ma
359.8415	40:55	40:51	4	0.961	3573	749	35	87	21		a
361.8385	40:51	40:51	1	0.960	2917	567	1	2	567	1.22(1.05-1.43)	M
PCB-159											
359.8415	41:49						35	87			
361.8385	41:49						1	2			
PCB-162											
359.8415	42:07						35	87			
361.8385	42:07						1	2			
PCB-167											
359.8415	42:35						35	87			
361.8385	42:35						1	2			
PCB-156											RQ
359.8415	43:44	43:41	-3	0.999	3382	618	35	87	18		
	Empc Correction				2549	514	35	87	15		
361.8385	43:44	43:41	-2	1.000	2056	415	1	2	415	1.64(1.05-1.43)	
PCB-157 (C156)											RQ
359.8415	43:44	43:41	-3	0.999	3382	618	35	87	18		
	Empc Correction				2549	514	35	87	15		
361.8385	43:44	43:41	-2	1.000	2056	415	1	2	415	1.64(1.05-1.43)	
PCB-169											
359.8415	46:59						35	87			
361.8385	46:59						1	2			
PCB-188L											
405.8428	36:59	36:58	1	0.820	2068610	417818	31	77	13478		
407.8398	36:59	36:58	1	0.820	2002458	402723	64	160	6293	1.03(0.89-1.21)	
PCB-178L											
405.8428	40:02	40:01	0	0.888	1287115	246861	31	77	7963		
407.8398	40:02	40:01	0	0.888	1181546	231313	64	160	3614	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	0		1562530	295850	31	77	9544		
407.8398	45:06	45:07	0		1487323	286548	64	160	4477	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:22	0	1.028	1239130	237667	31	77	7667		
407.8398	46:23	46:22	0	1.028	1182704	221772	64	160	3465	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:27	0	1.097	2623928	489470	1112	2780	440		
407.8398	49:28	49:27	0	1.097	2435053	455126	820	2050	555	1.08(0.89-1.21)	
PCB-188											
393.8025	37:02						1	2			
395.7995	37:02						1	2			
PCB-179											
393.8025	37:23						1	2			
395.7995	37:23						1	2			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											
393.8025	37:51						1	2			
395.7995	37:51						1	2			
PCB-176											
393.8025	38:13						1	2			
395.7995	38:13						1	2			
PCB-186											
393.8025	38:43						1	2			
395.7995	38:43						1	2			
PCB-178											
393.8025	40:03						1	2			
395.7995	40:03						1	2			
PCB-175											
393.8025	40:42						1	2			
395.7995	40:42						1	2			
PCB-187											
393.8025	40:59	40:54	1	1.108	3132	762	1	2	762		RQ
	Empc Correction				1212	527	1	2	527		
395.7995	40:58	40:54	1	1.108	1155	502	1	2	502	2.71(0.89-1.21)	
PCB-182											
393.8025	41:10						1	2			
395.7995	41:10						1	2			
PCB-183											
393.8025	41:36	41:36	2	1.125	1319	339	1	2	339		RQM
395.7995	41:33	41:36	-1	1.123	1978	589	1	2	589	0.67(0.89-1.21)	M
	Empc Correction				1256	322	1	2	322		
PCB-185 (C183)											
393.8025	41:36	41:36	2	1.125	1319	339	1	2	339		RQM
395.7995	41:33	41:36	-1	1.123	1978	589	1	2	589	0.67(0.89-1.21)	M
	Empc Correction				1256	322	1	2	322		
PCB-174											
393.8025	41:48	41:50	-2	1.130	1256	551	1	2	551		RQ
	Empc Correction				726	205	1	2	205		
395.7995	41:46	41:50	-3	1.129	692	196	1	2	196	1.82(0.89-1.21)	
PCB-177											
393.8025	42:15	42:15	0	1.142	1837	325	1	2	325		RQMa
	Empc Correction				424	125	1	2	125		M
395.7995	42:13	42:15	-3	1.141	404	120	1	2	120	4.55(0.89-1.21)	
PCB-181											
393.8025	42:39						1	2			
395.7995	42:39						1	2			
PCB-171											
393.8025	42:54	42:55	2	1.160	257	71	1	2	71		RQ
395.7995	42:52	42:55	0	1.159	947	337	1	2	337	0.27(0.89-1.21)	
	Empc Correction				244	67	1	2	67		
PCB-173 (C171)											
393.8025	42:54	42:55	2	1.160	257	71	1	2	71		RQ
395.7995	42:52	42:55	0	1.159	947	337	1	2	337	0.27(0.89-1.21)	
	Empc Correction				244	67	1	2	67		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:30						1	2			
395.7995	44:30						1	2			
PCB-192											
393.8025	44:45						1	2			
395.7995	44:45						1	2			
PCB-180											
393.8025	45:06	45:08	0	0.912	2119	340	1	2	340		RQ
395.7995	45:08	45:08	2	0.912	2819	745	1	2	745	0.75(0.89-1.21)	
Empc Correction					2018	323	1	2	323		
PCB-193 (C180)											
393.8025	45:06	45:08	0	0.912	2119	340	1	2	340		RQ
395.7995	45:08	45:08	2	0.912	2819	745	1	2	745	0.75(0.89-1.21)	
Empc Correction					2018	323	1	2	323		
PCB-191											
393.8025	45:29						1	2			
395.7995	45:29						1	2			
PCB-170											
393.8025	46:26	46:26	1	0.938	568	201	1	2	201		RQM
395.7995	46:29	46:26	4	0.939	797	175	1	2	175	0.71(0.89-1.21)	M
Empc Correction					540	191	1	2	191		
PCB-190											
393.8025	46:55						1	2			
395.7995	46:55						1	2			
PCB-189											
393.8025	49:31						25	62			
395.7995	49:31						23	57			
PCB-202L											
439.8038	42:21	42:19	0	0.821	1327320	262072	57	142	4598		
441.8008	42:21	42:19	0	0.821	1463369	290239	75	187	3870	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:34	51:35	-1		1733460	320606	77	192	4164		
441.8008	51:35	51:35	0		1865553	346170	83	207	4171	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:02	0	1.009	1965844	382022	77	192	4961		
441.8008	52:02	52:02	0	1.009	2196240	413804	83	207	4986	0.90(0.76-1.02)	
PCB-202											
427.7635	42:23						10	25			
429.7606	42:23						3	7			
PCB-201											
427.7635	43:18						10	25			
429.7606	43:18						3	7			
PCB-204											
427.7635	43:58						10	25			
429.7606	43:58						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											
427.7635	44:11						10	25			
429.7606	44:11						3	7			
PCB-200											
427.7635	44:19						10	25			
429.7606	44:19						3	7			
PCB-198											
427.7635	47:05						10	25			
429.7606	47:05						3	7			
PCB-199 (C198)											
427.7635	47:05						10	25			
429.7606	47:05						3	7			
PCB-196											
427.7635	47:44						10	25			
429.7606	47:44						3	7			
PCB-203											
427.7635	47:57						10	25			
429.7606	47:57						3	7			
PCB-195											
427.7635	49:16						11	27			
429.7606	49:16						11	27			
PCB-194											
427.7635	51:35						11	27			
429.7606	51:35						11	27			
PCB-205											
427.7635	52:04	52:05	0	1.000	263	86	11	27	8		RQM
	Empc Correction				116	64	11	27	6		M
429.7606	52:05	52:05	0	1.001	131	72	11	27	7	2.01(0.76-1.02)	M
PCB-208L											
473.7648	49:00	48:59	0	0.950	1525279	287742	337	842	854		
475.7619	49:00	48:59	0	0.950	1909387	367758	338	845	1088	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:47	0	1.043	1141975	213073	337	842	632		
475.7619	53:48	53:47	0	1.043	1426013	264269	338	845	782	0.80(0.65-0.89)	
PCB-208											
461.7246	49:01						18	45			
463.7216	49:01						204	510			
PCB-207											
461.7246	49:57						18	45			
463.7216	49:57						204	510			
PCB-206											
461.7246	53:49						18	45			
463.7216	53:49						204	510			
PCB-209L											
507.7258	55:24	55:23	0	1.074	1137746	201126	85	212	2366		
509.7229	55:23	55:23	0	1.074	1586239	282222	37	92	7628	0.72(0.59-0.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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DCB Decachlorobiphenyl

495.6856 55:27

2

5

497.6826 55:27

5

12

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

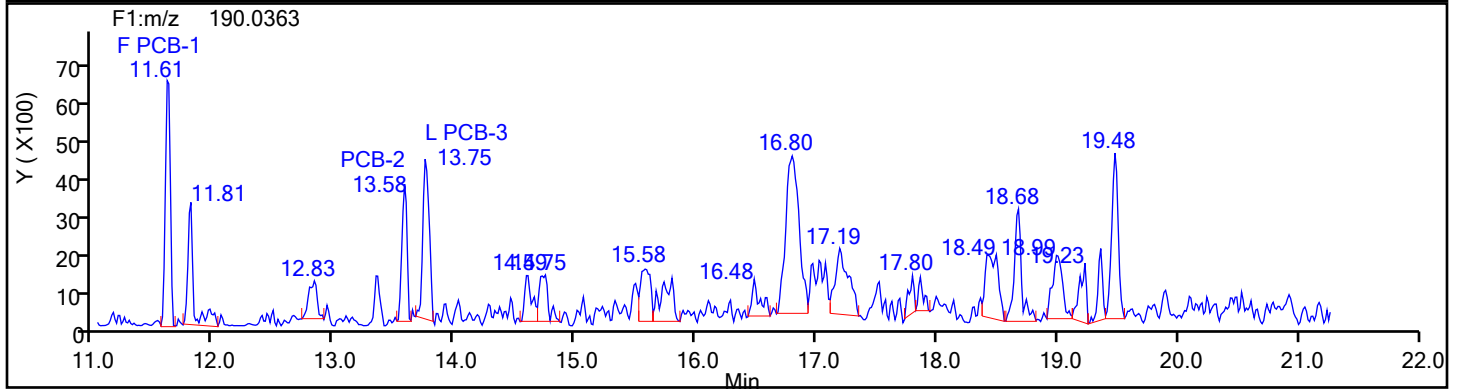
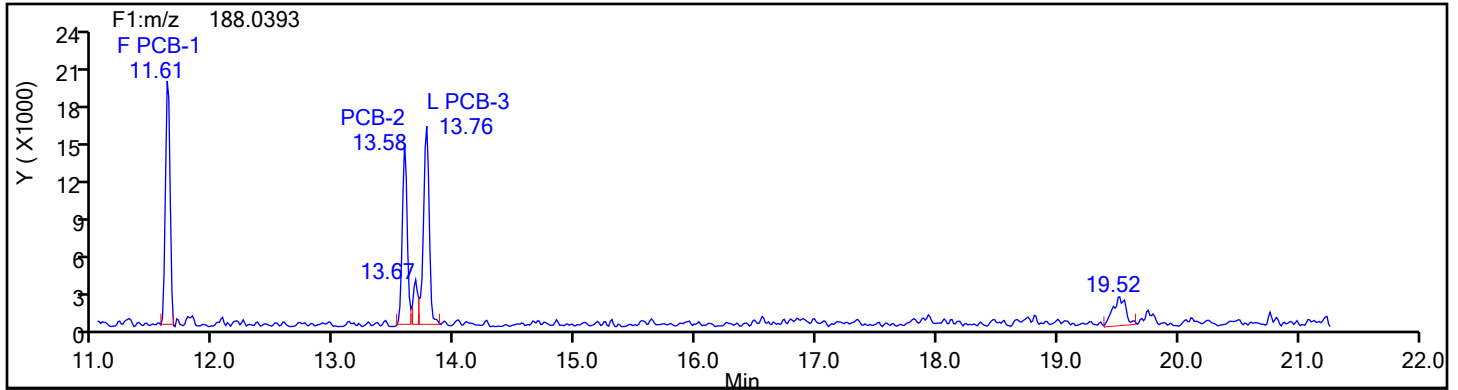
Review Flags

M - Manually Integrated

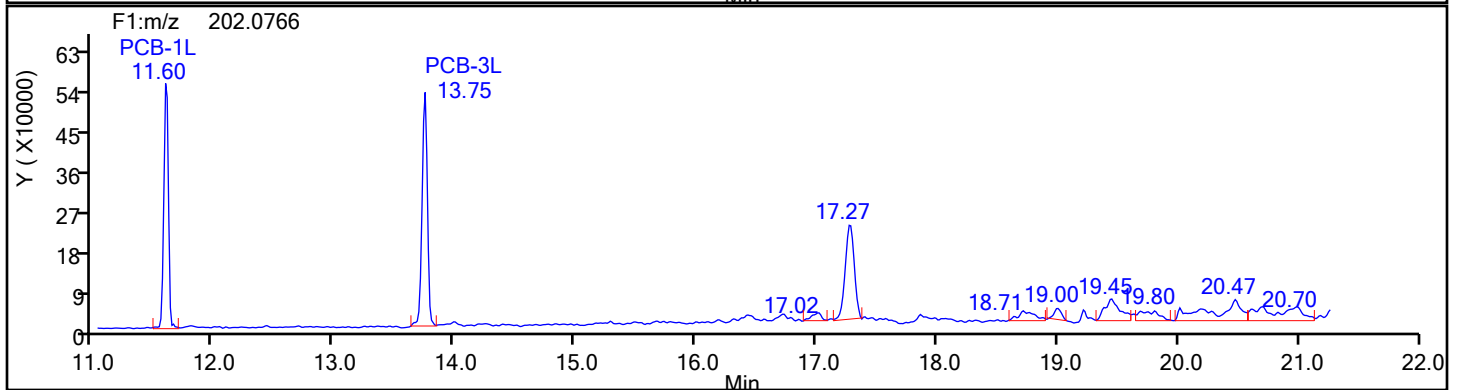
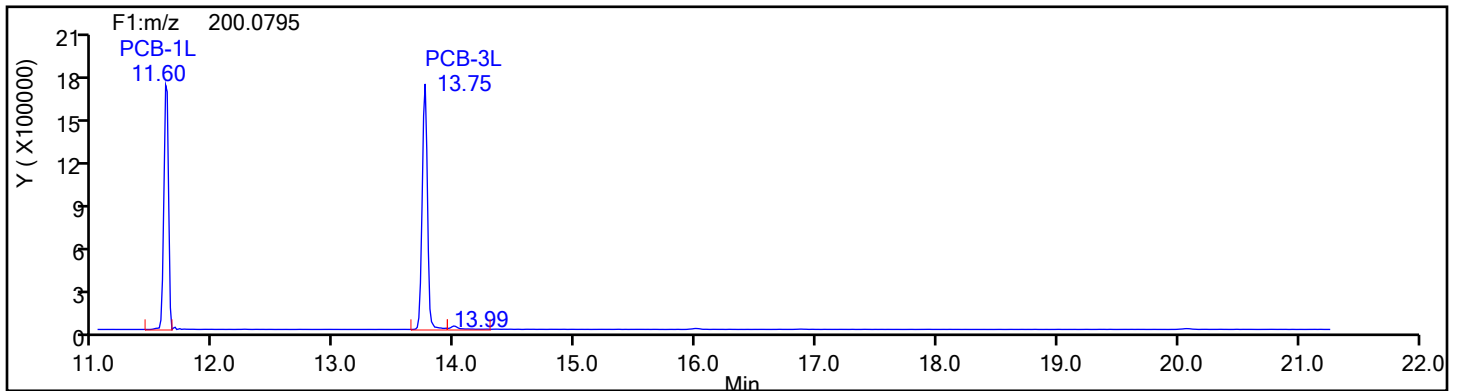
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

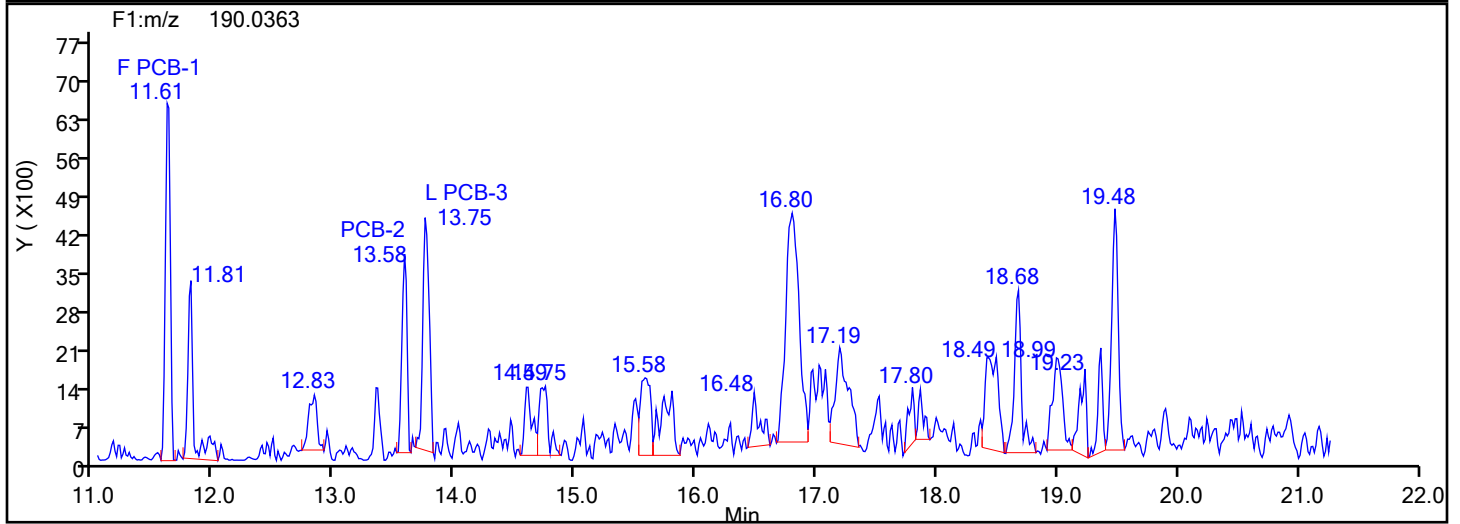
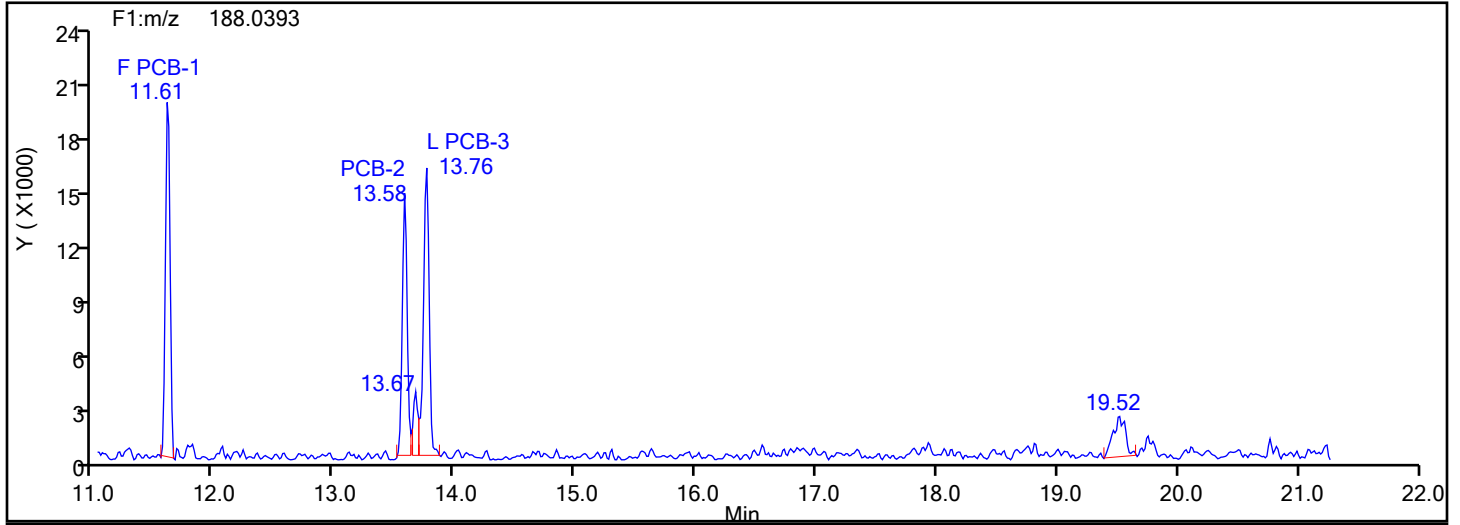


MoPCB F1 Standards

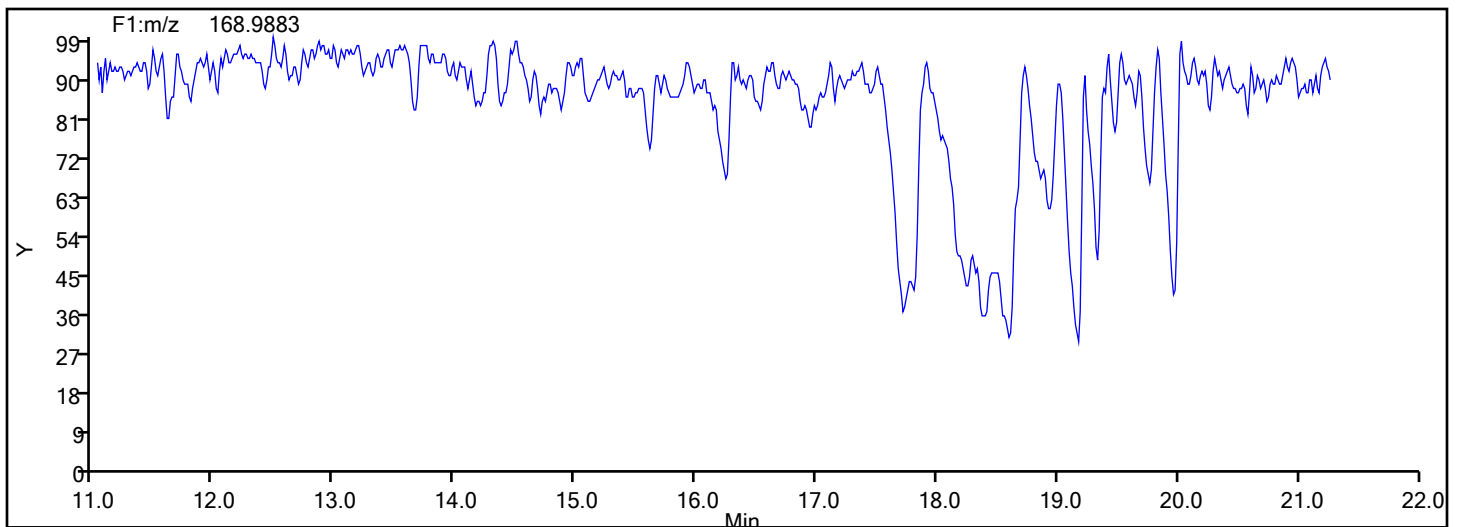


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

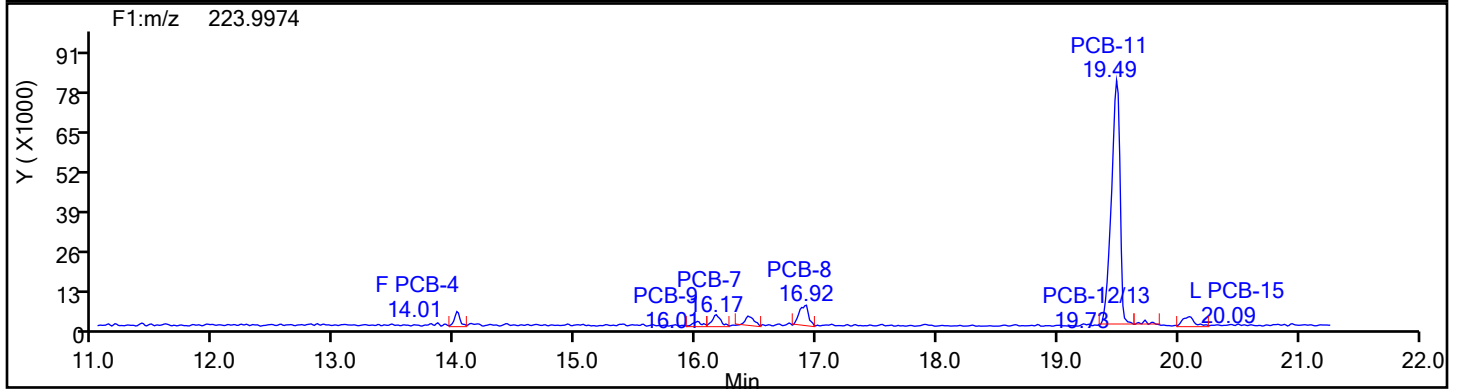
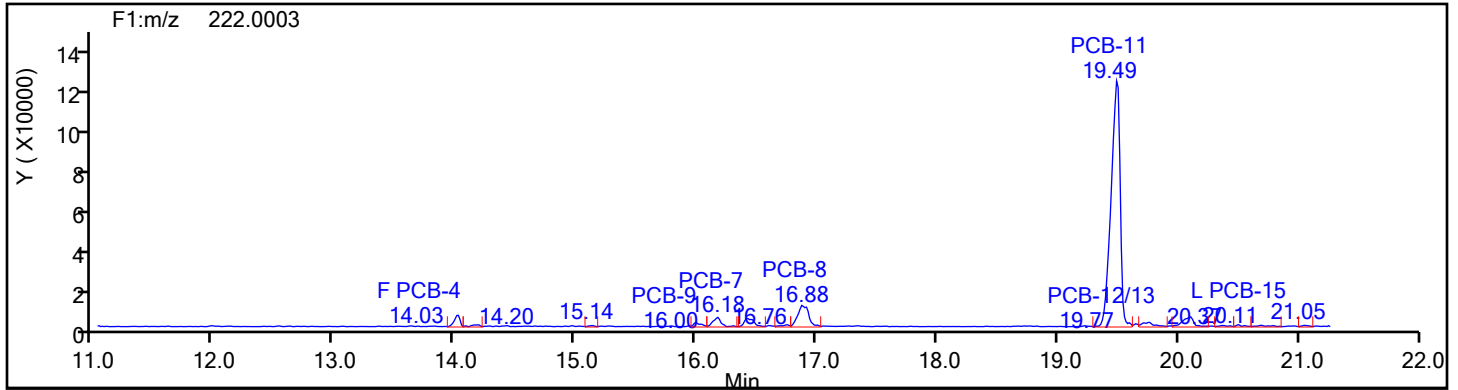


MoPCB F1 Lock Mass

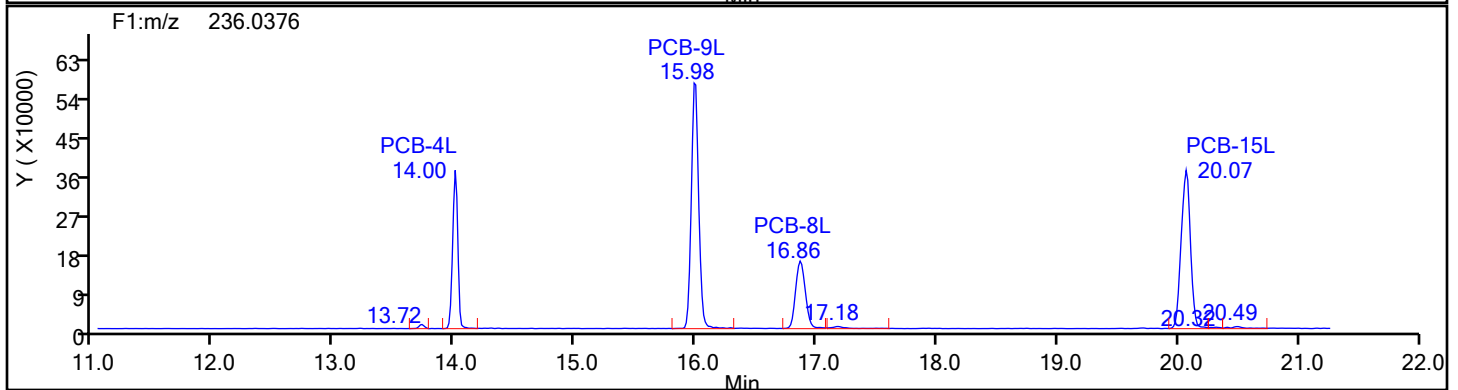
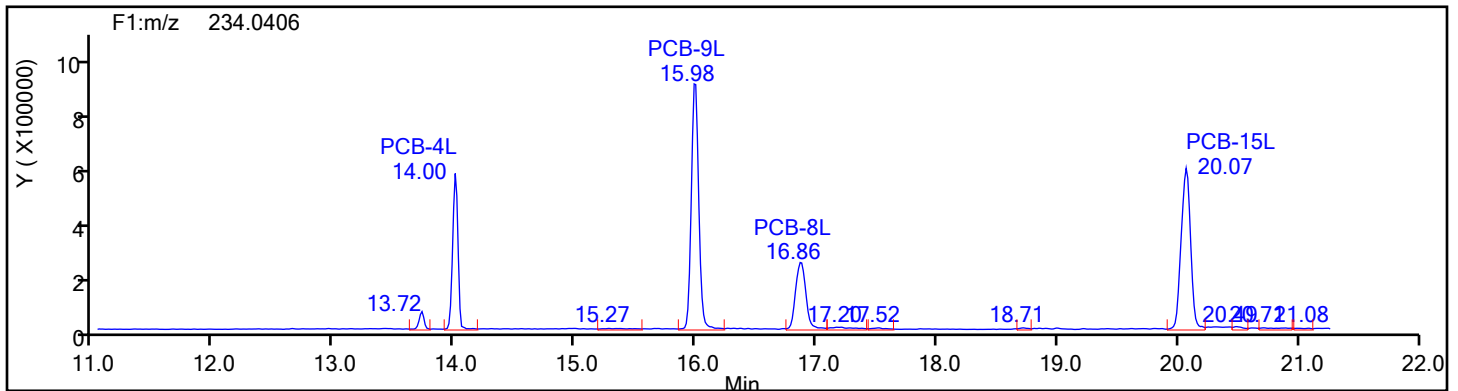


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

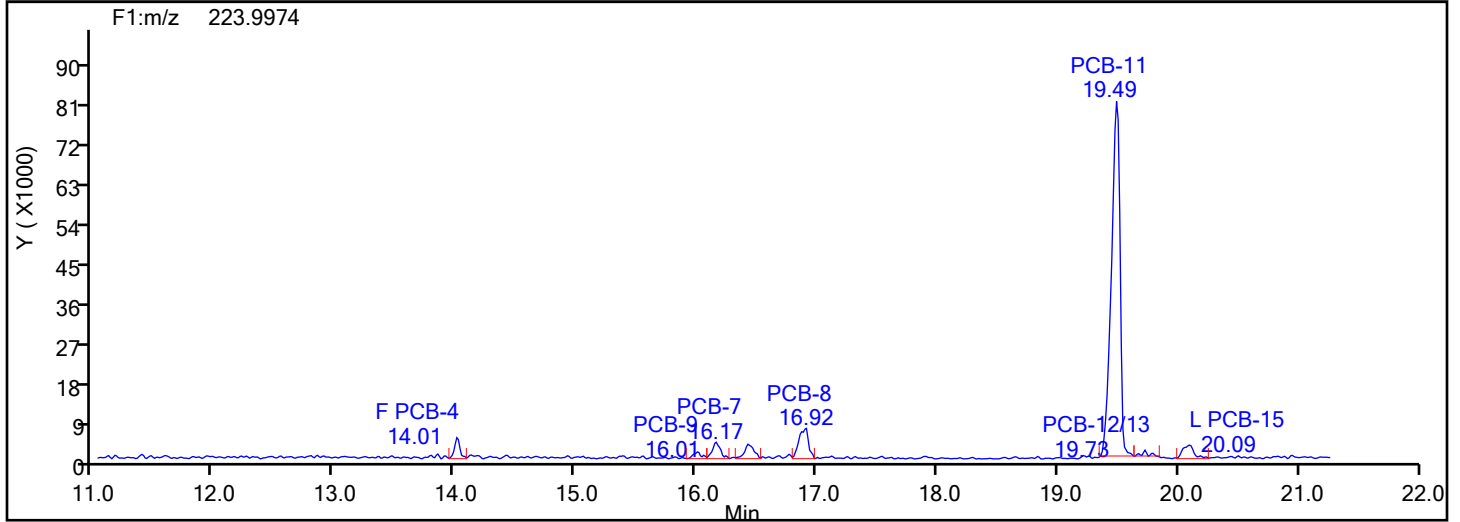
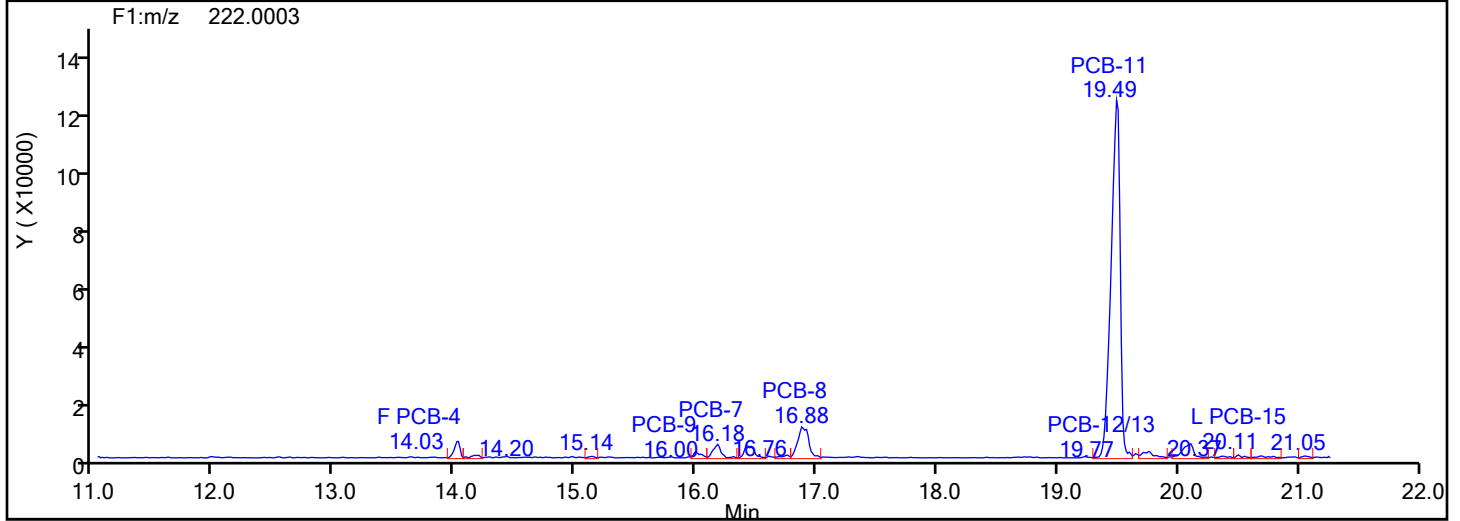


DiPCB F1 Standards

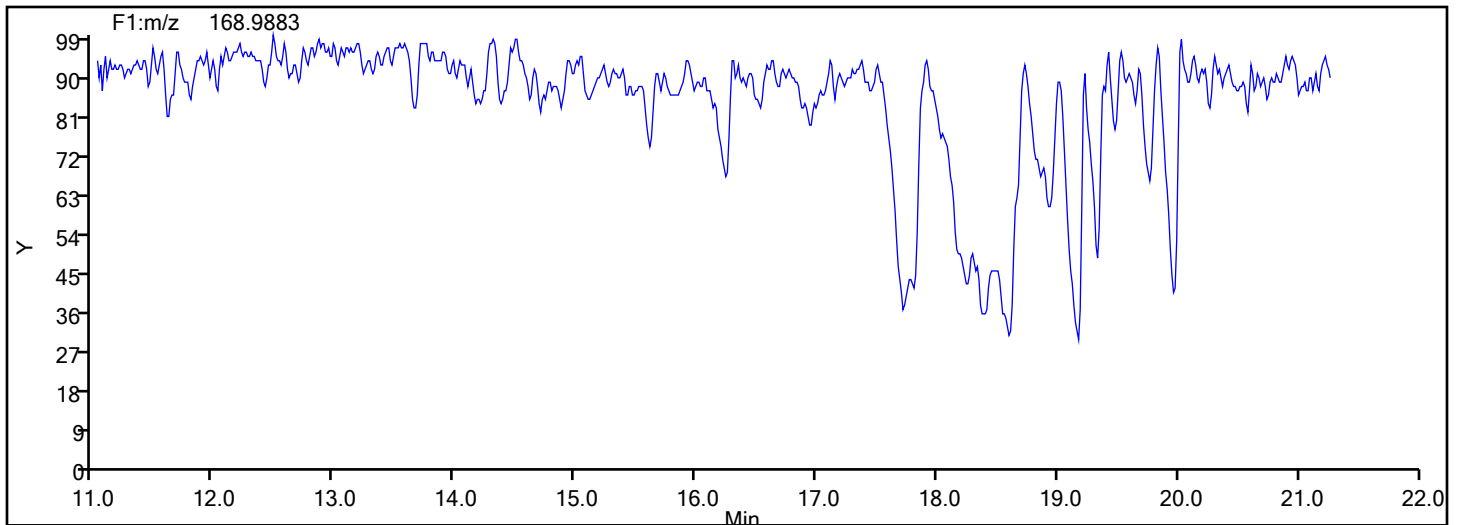


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

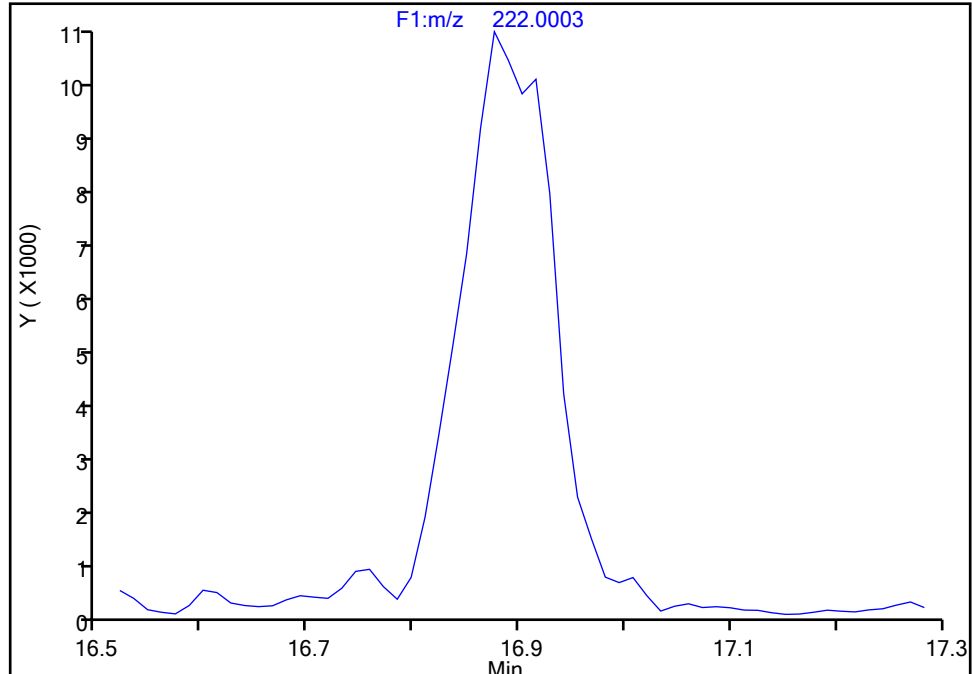
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

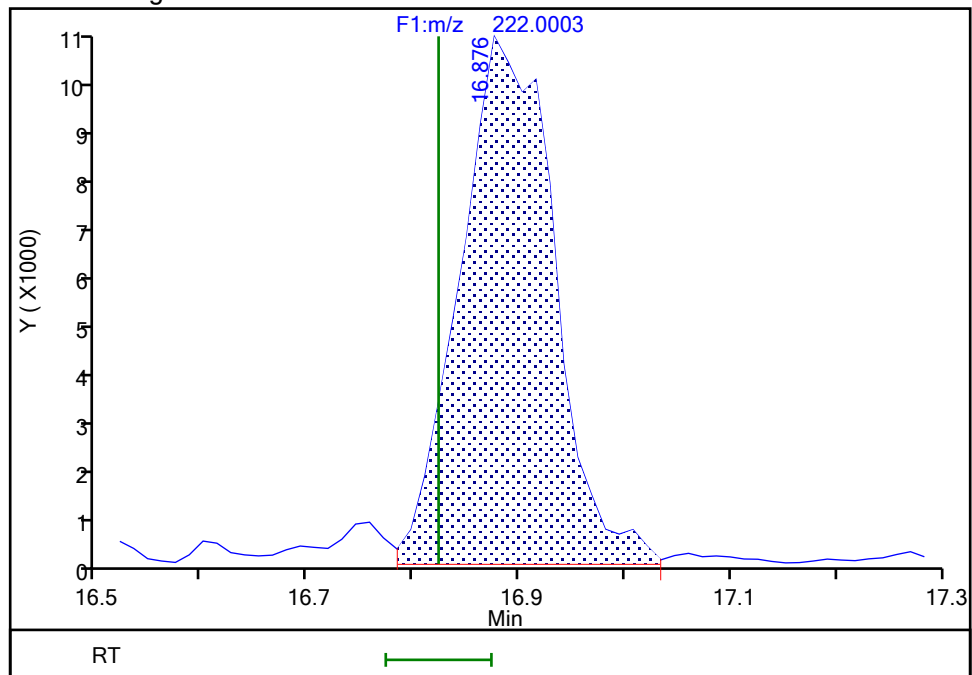
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Expected RT: 16.82

Processing Integration Results



RT: 16.88
Area: 64595
Amount: 1.585202
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 22:07:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

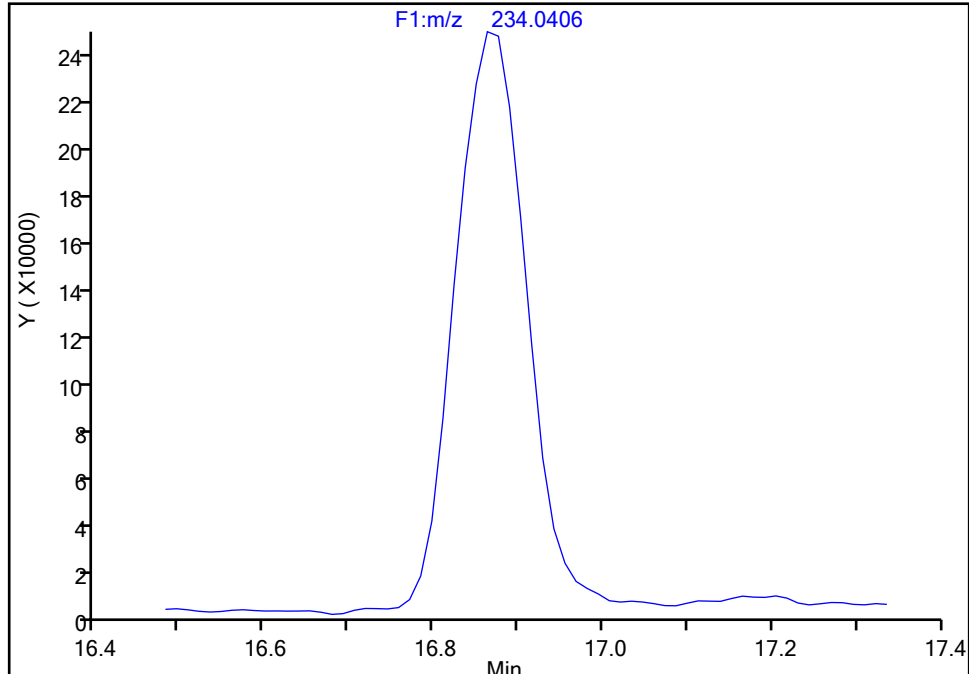
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

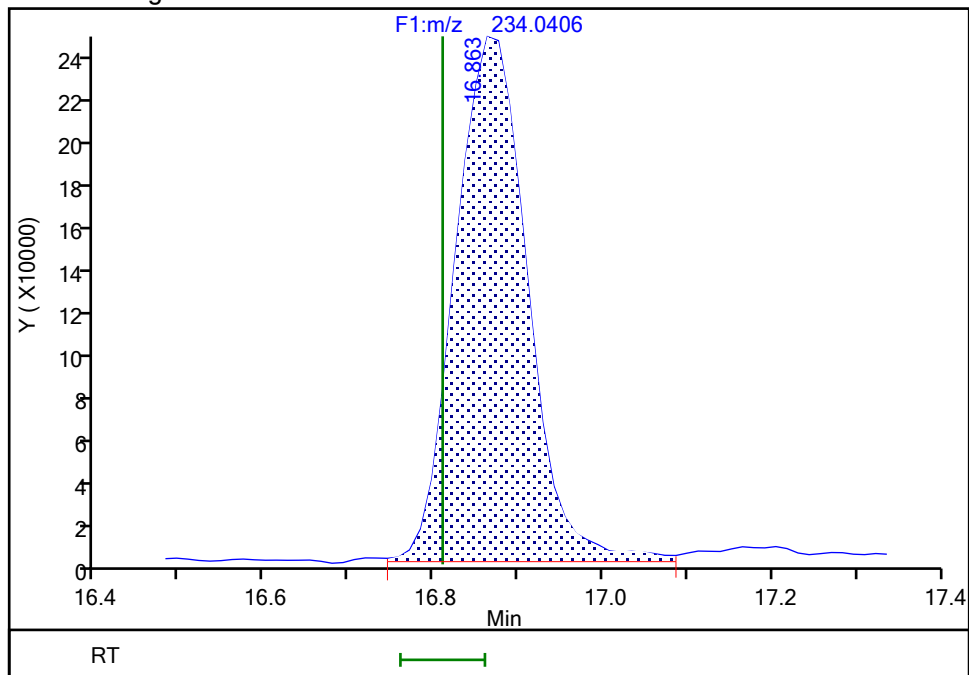
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.86
Area: 1464346
Amount: 48.391045
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 22:07:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

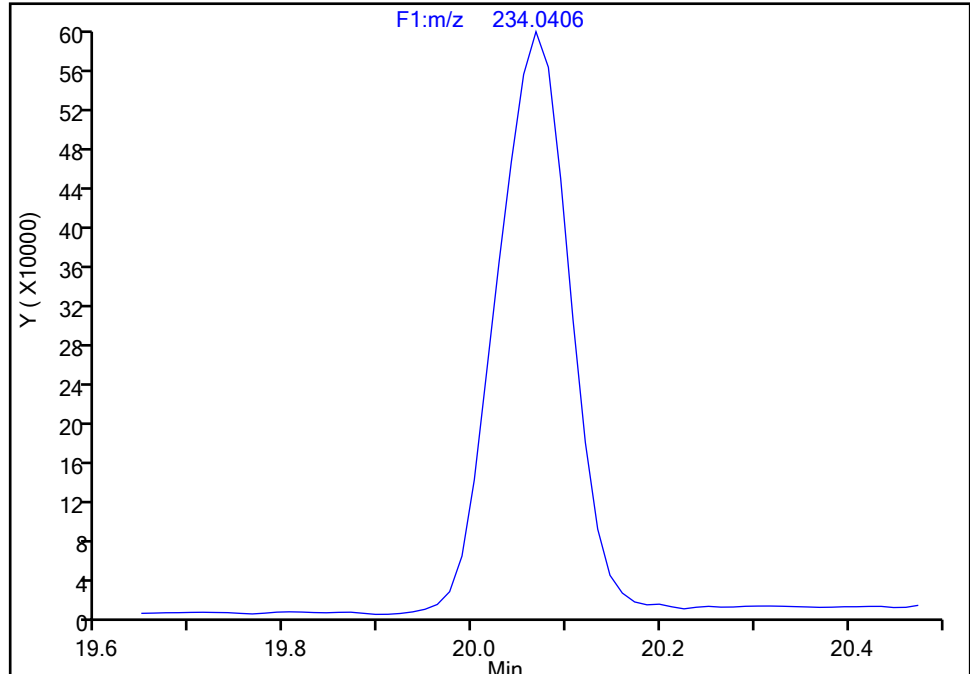
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Injection Date: 16-Jul-2024 07:01:00 Instrument ID: D2D
Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

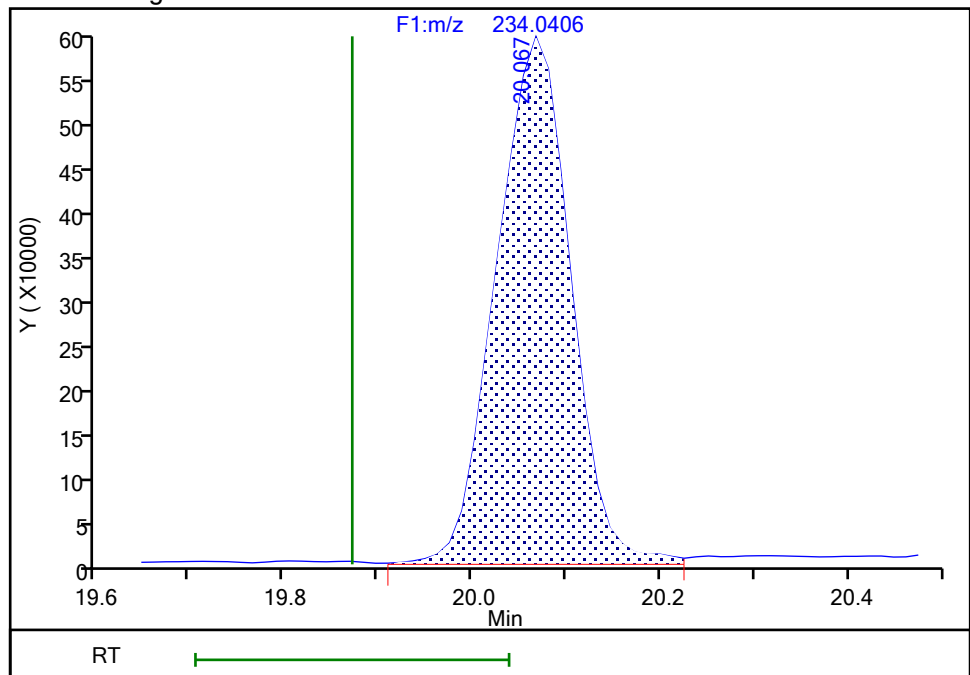
Not Detected
Expected RT: 19.87

Processing Integration Results



RT: 20.07
Area: 3231554
Amount: 76.711502
Amount Units: pg/ul

Manual Integration Results



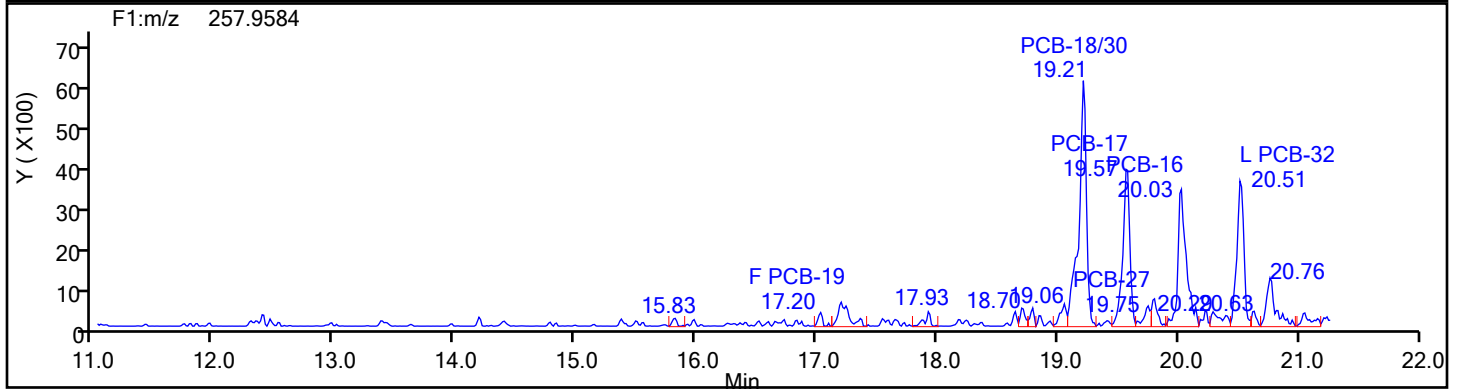
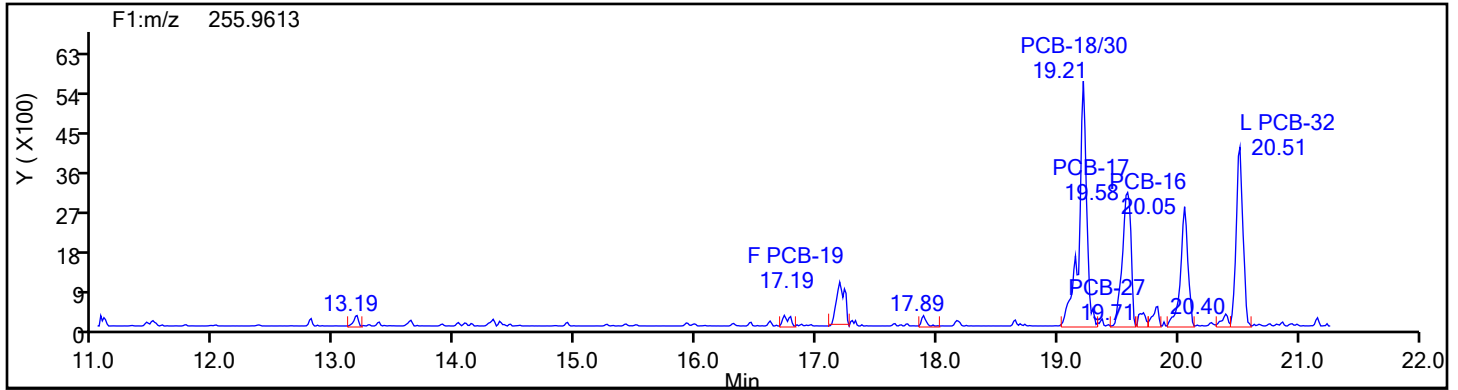
Reviewer: V4XA, 16-Jul-2024 22:07:34 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

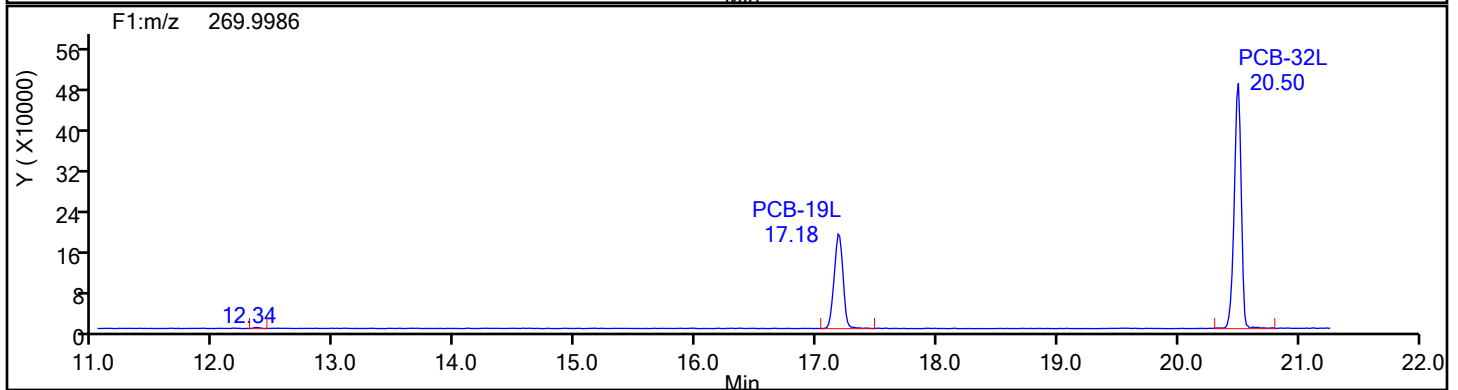
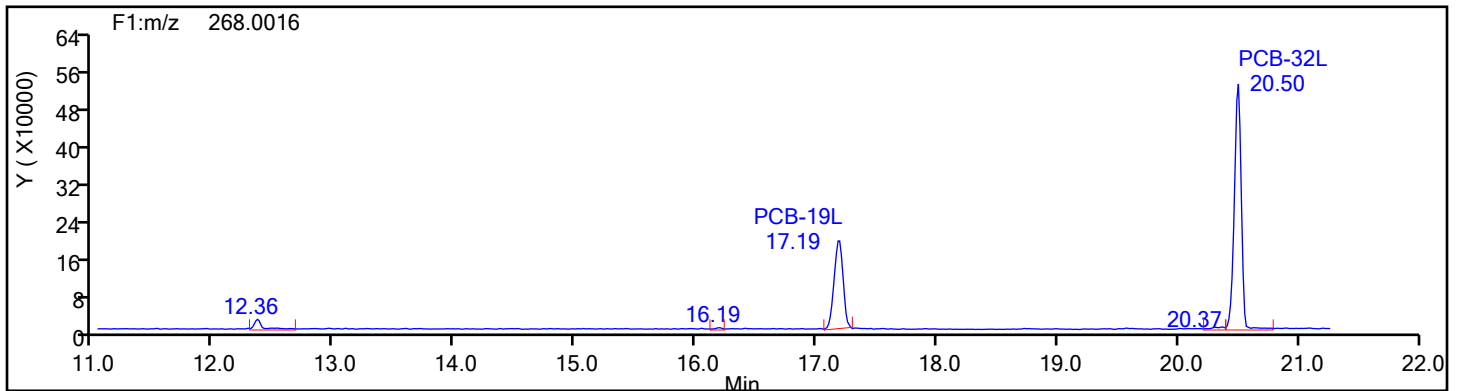
Audit Reason: Split Peak

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

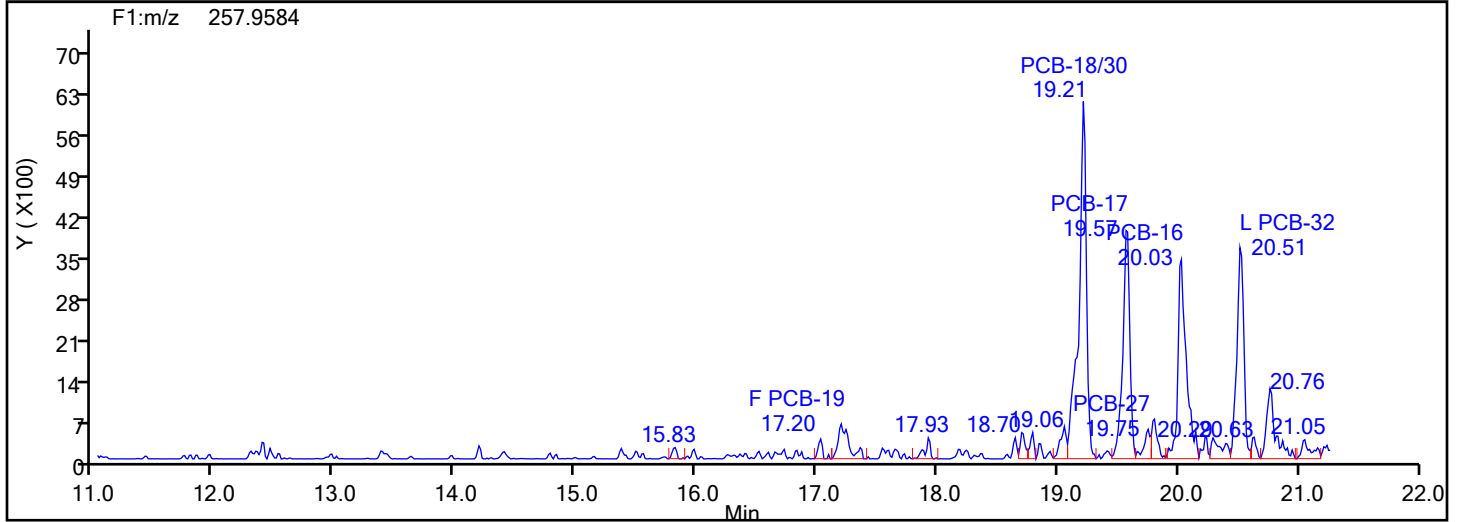
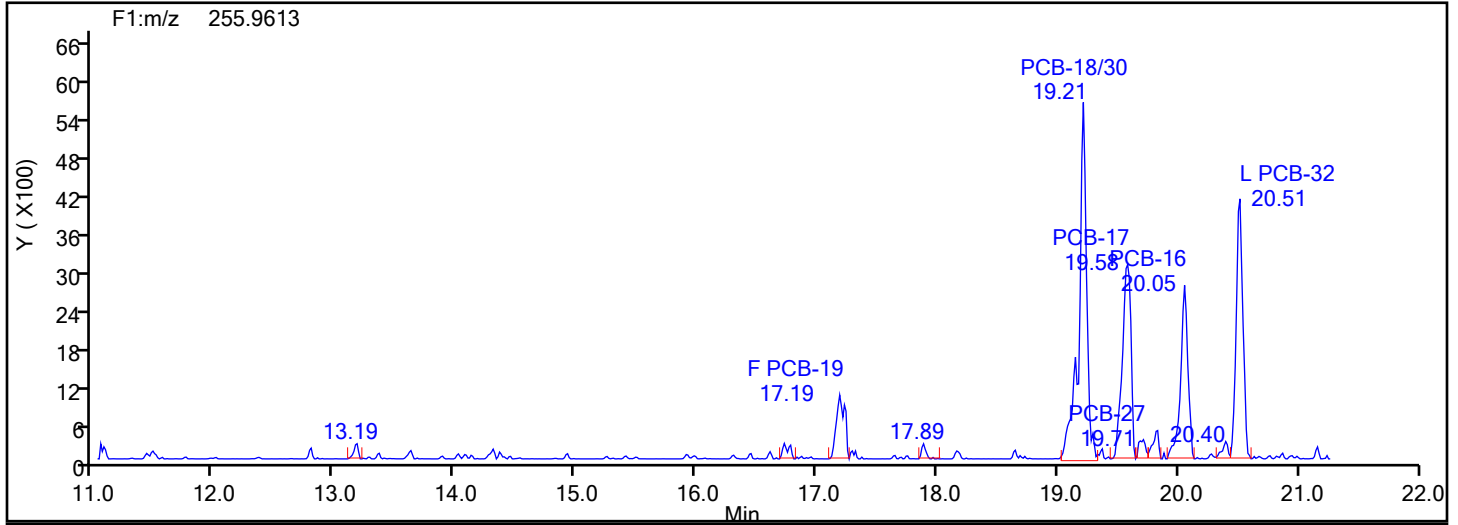


TriPCB F1 Standards

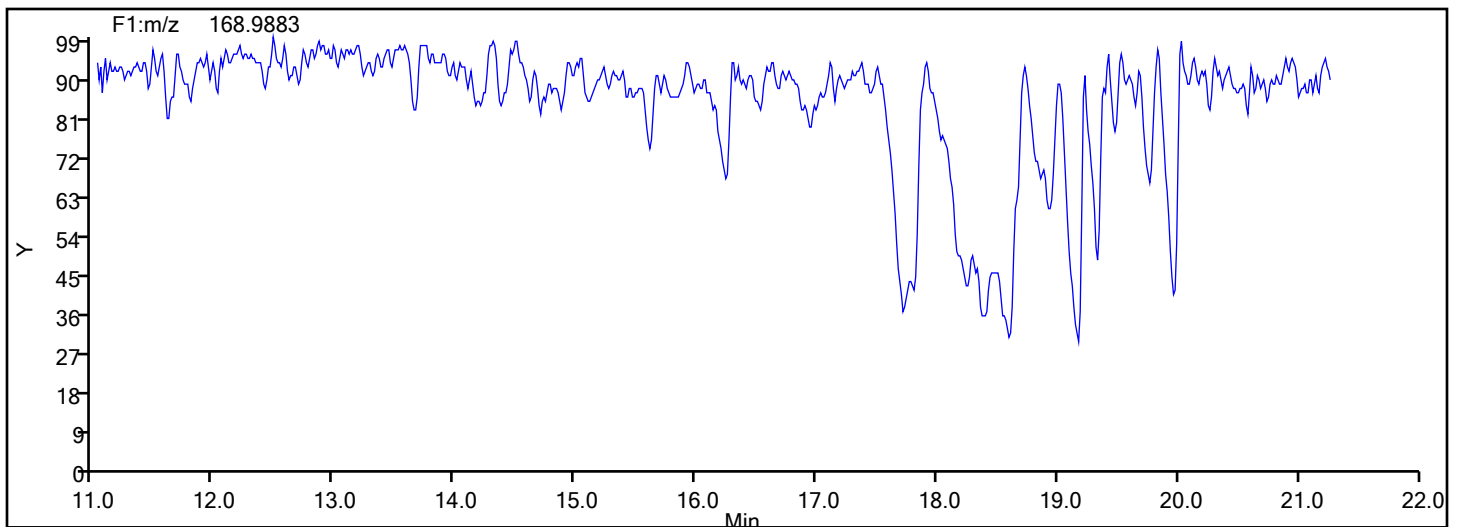


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

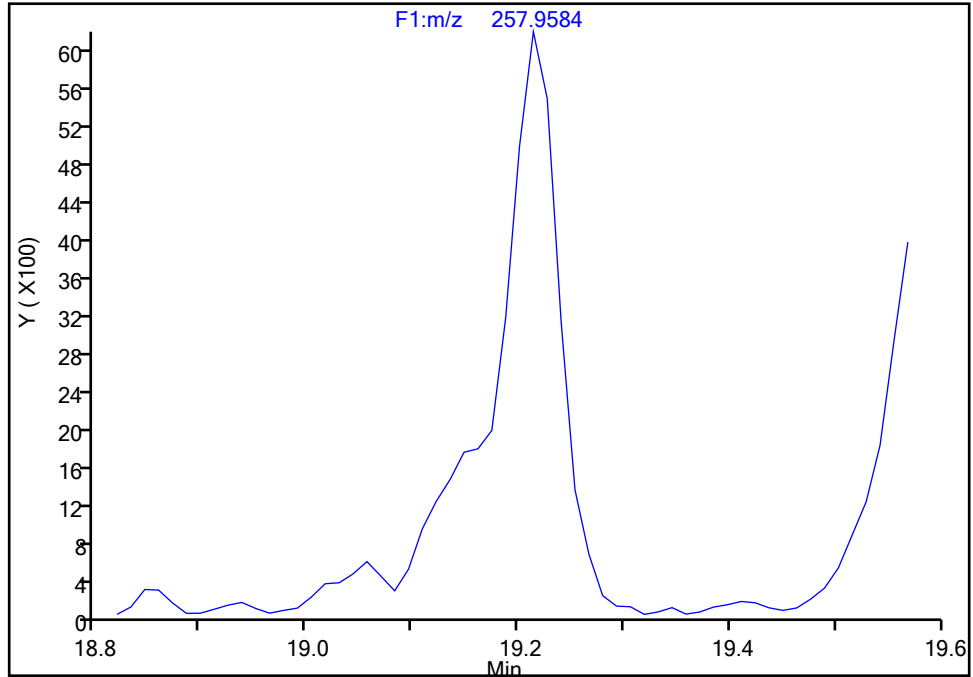
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

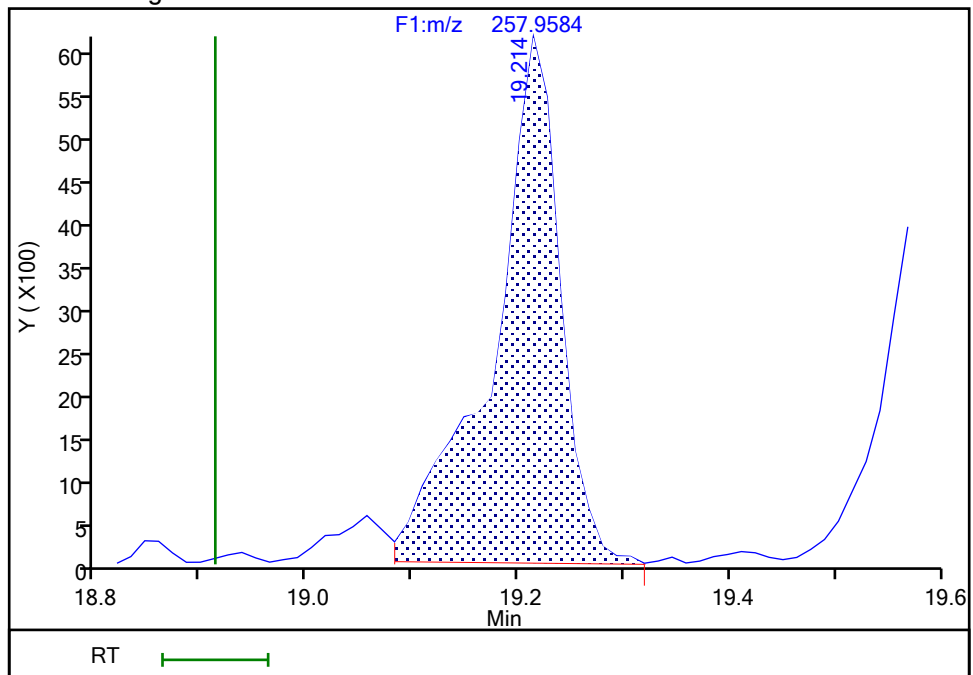
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.21
Area: 27097
Amount: 1.527948
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 22:10:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

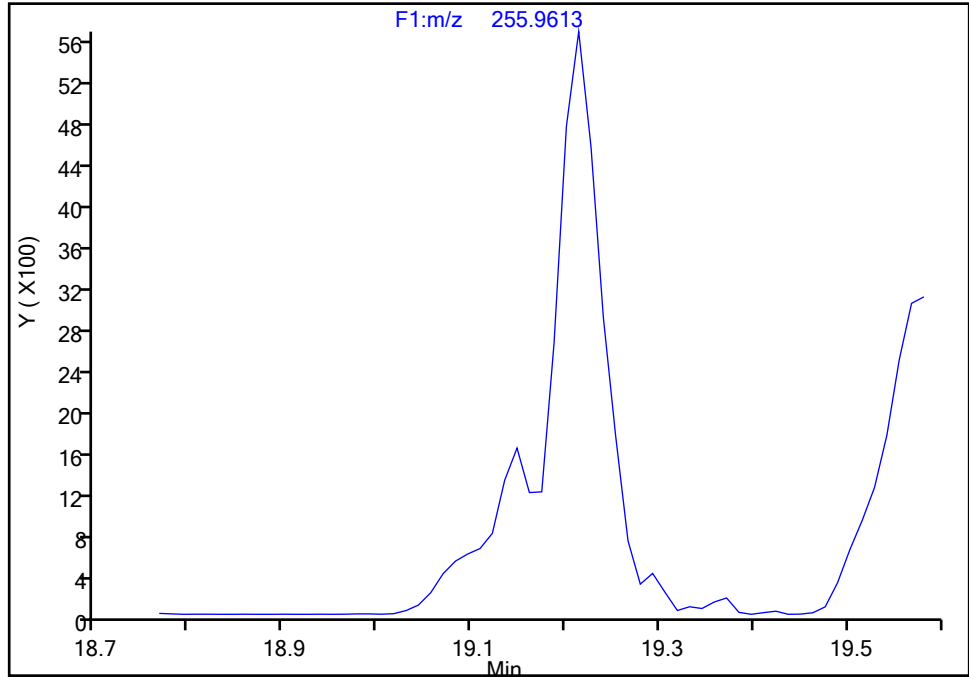
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

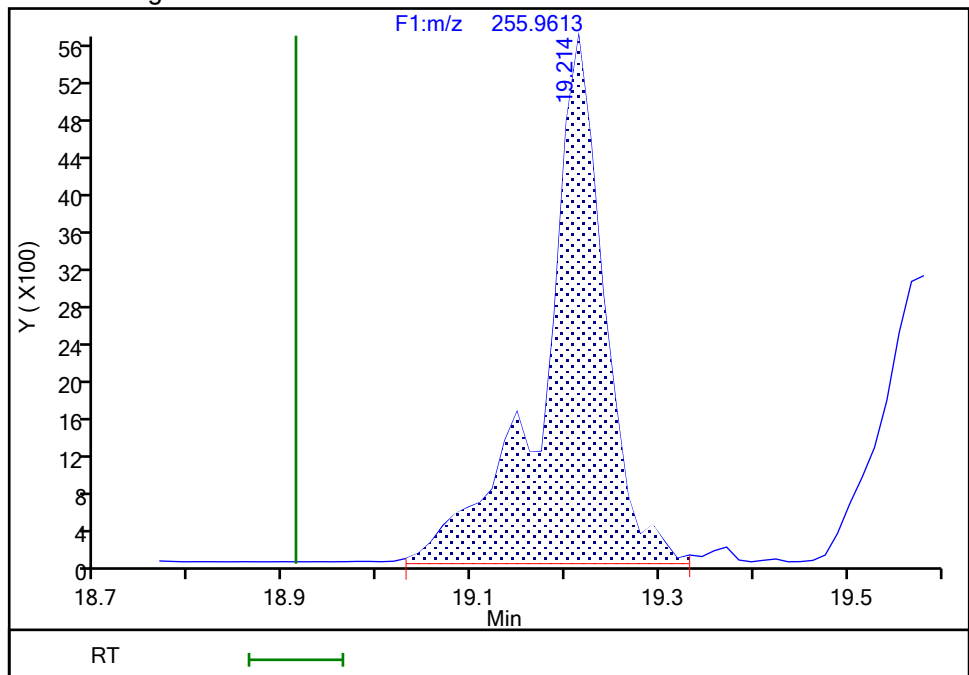
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.21
Area: 25673
Amount: 1.527948
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 22:10:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1351 of 3050

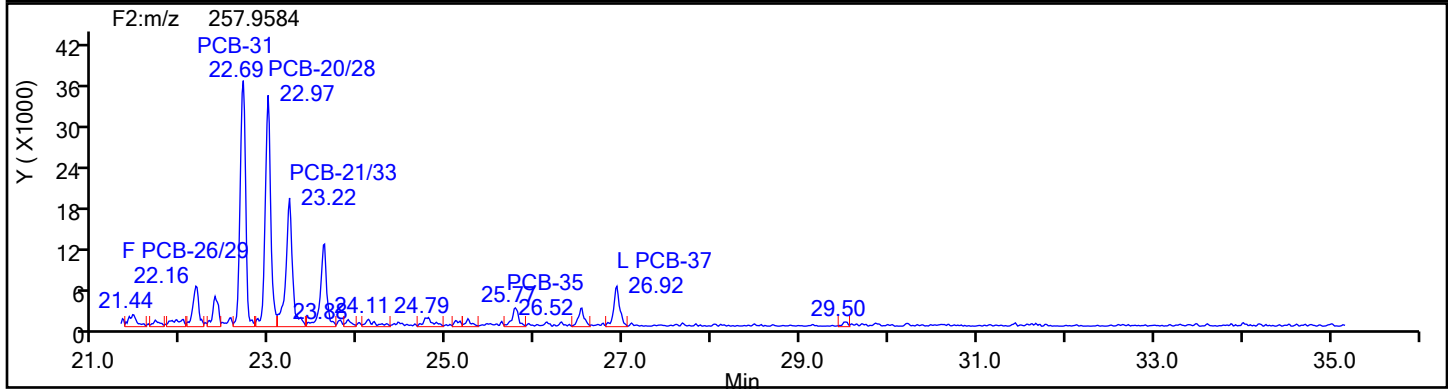
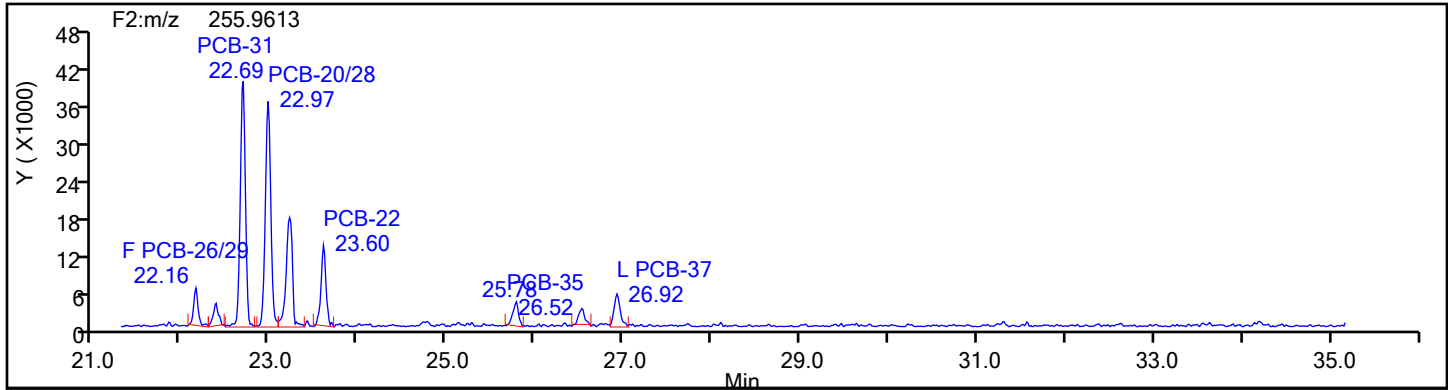
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9/6/2024

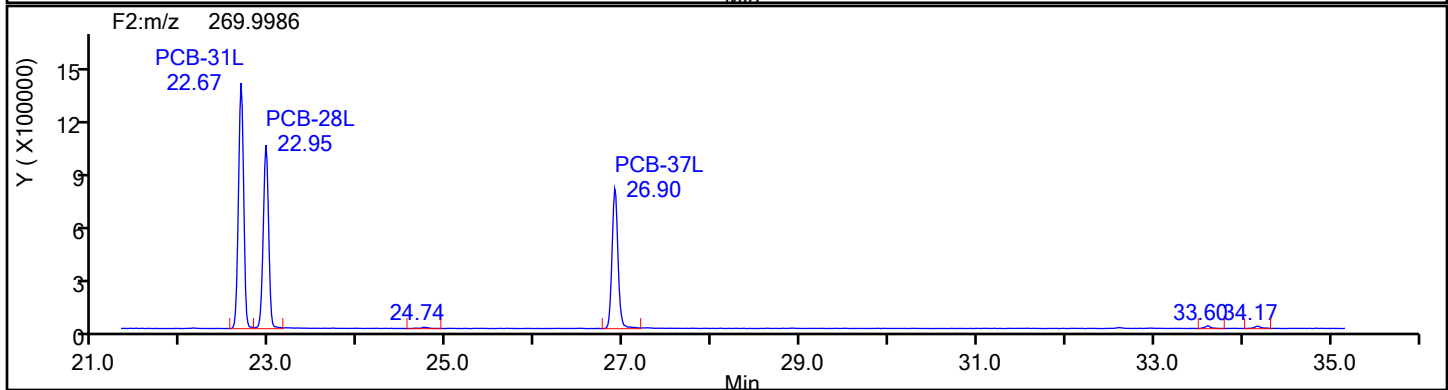
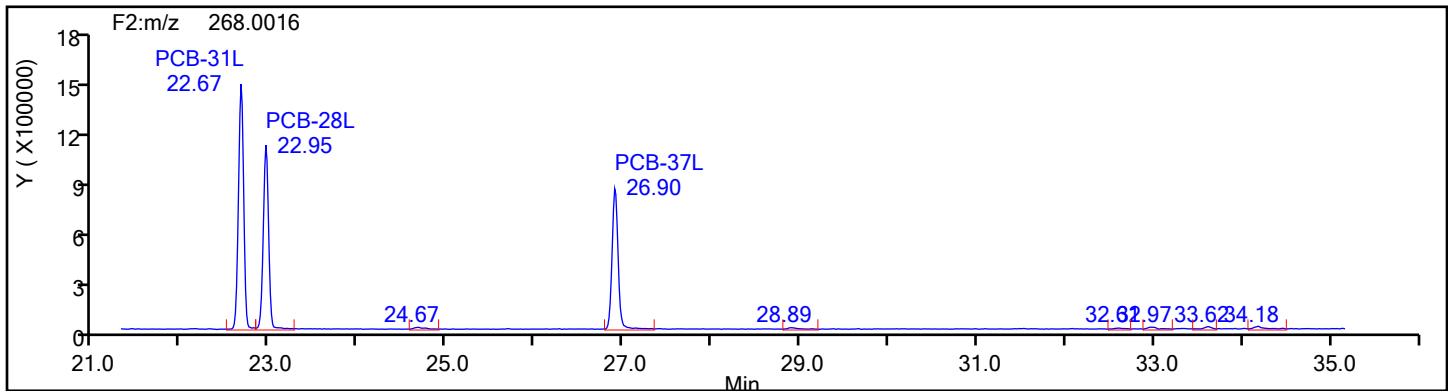
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

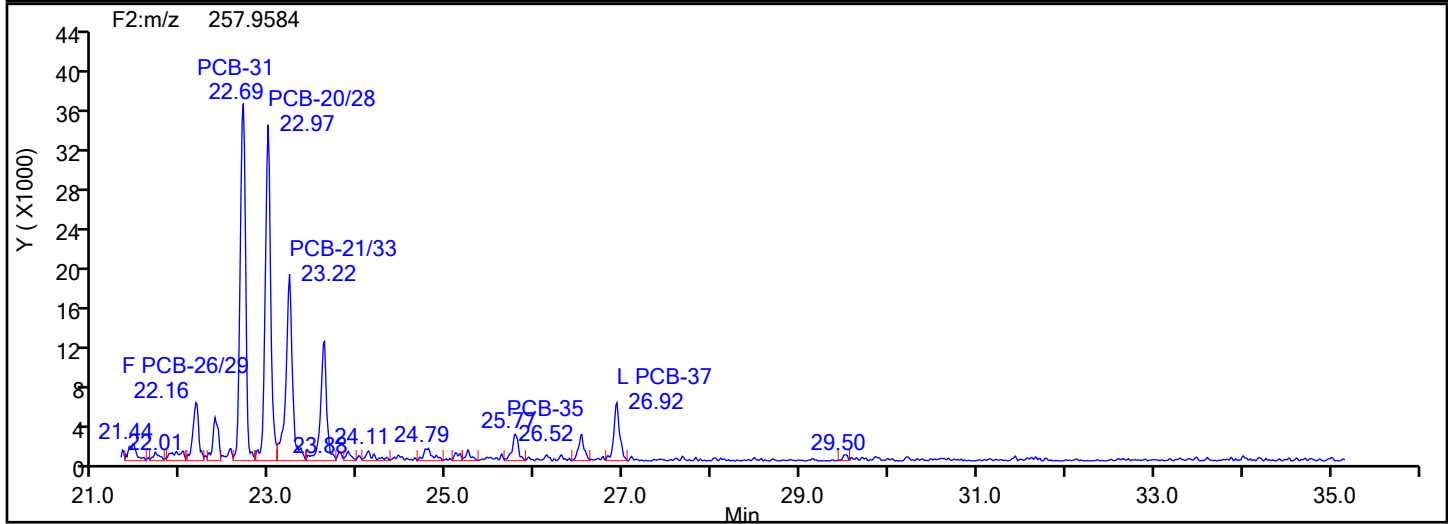
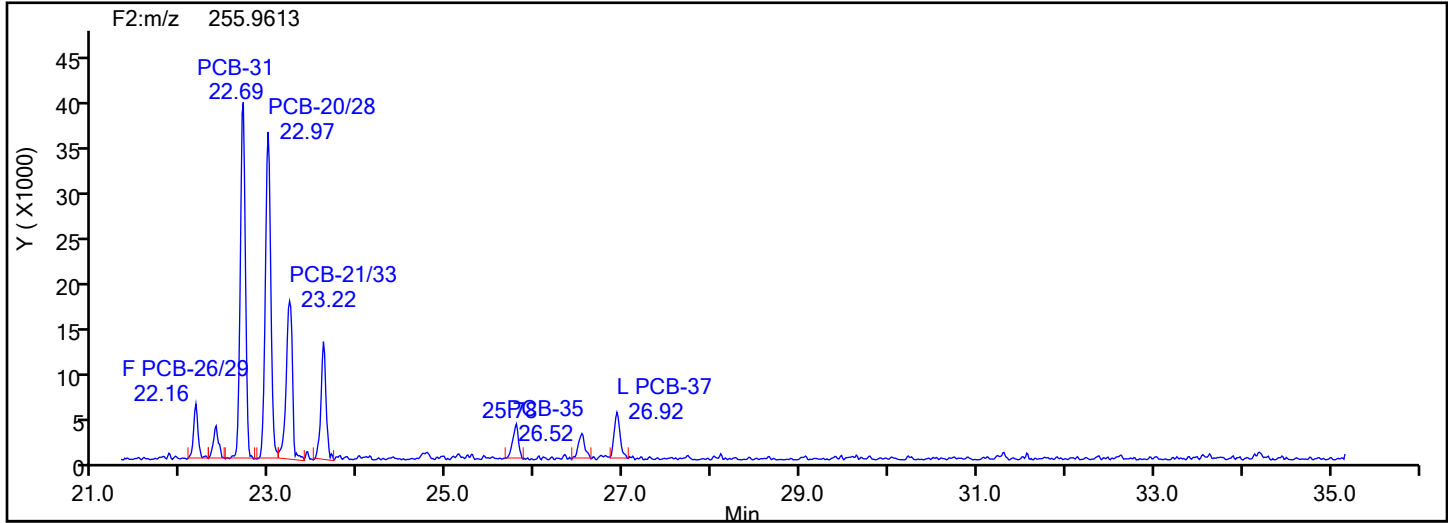


TriPCB F2 Standards

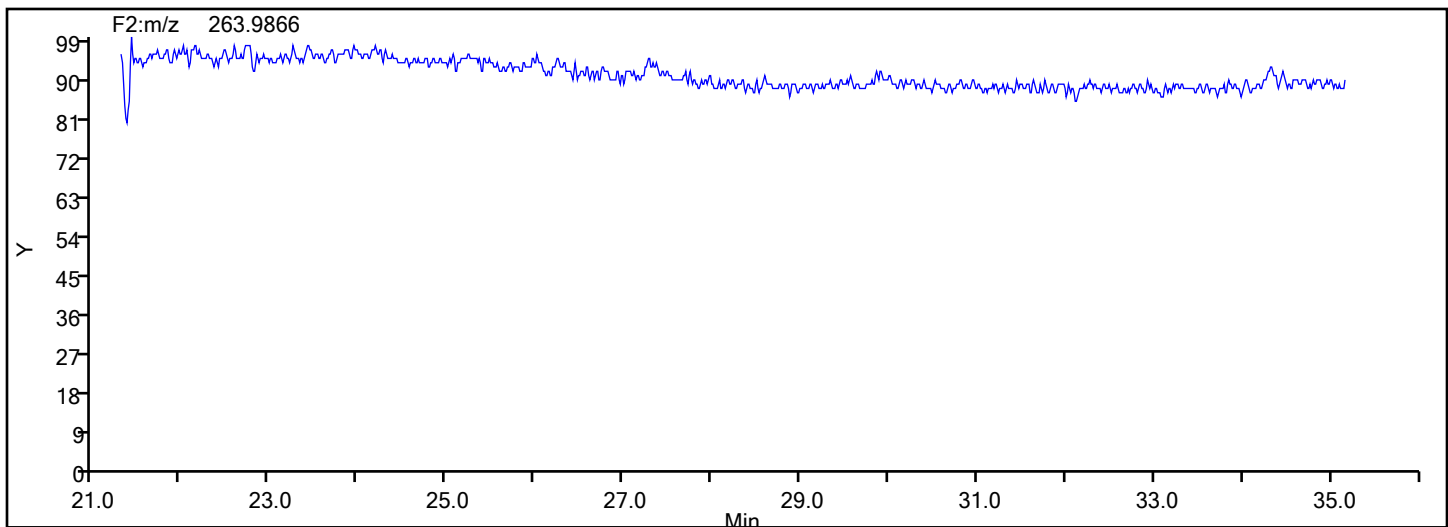


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

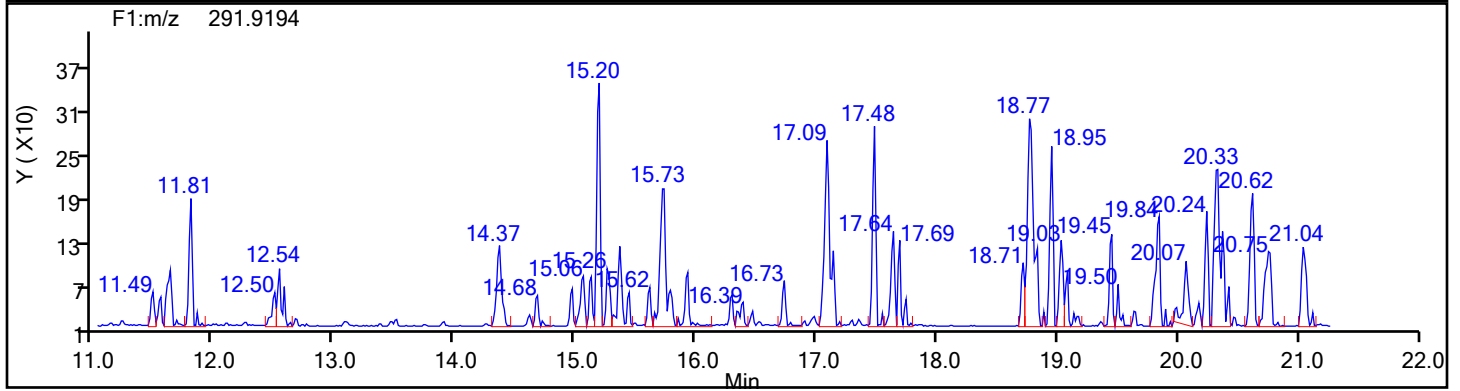
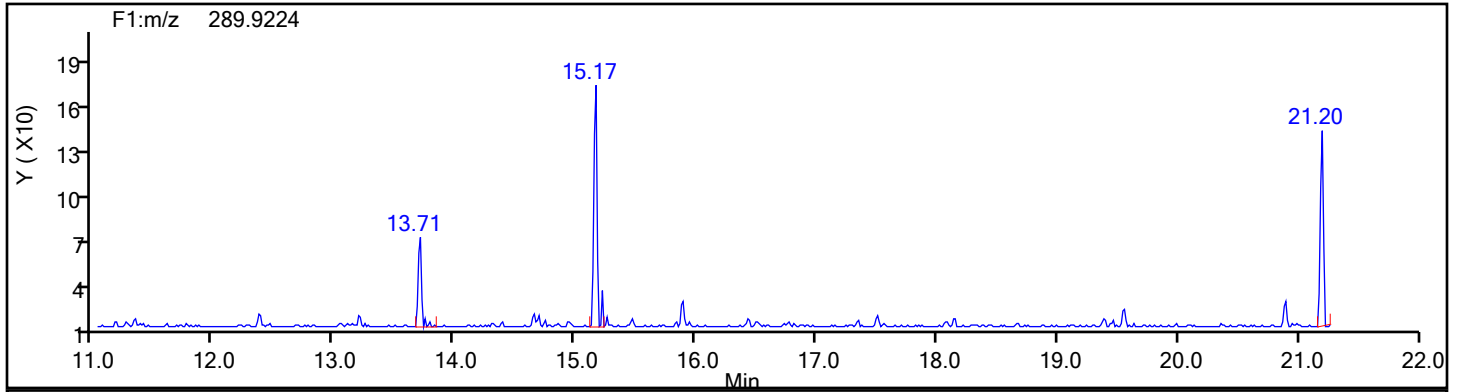


TriPCB F2 Lock Mass

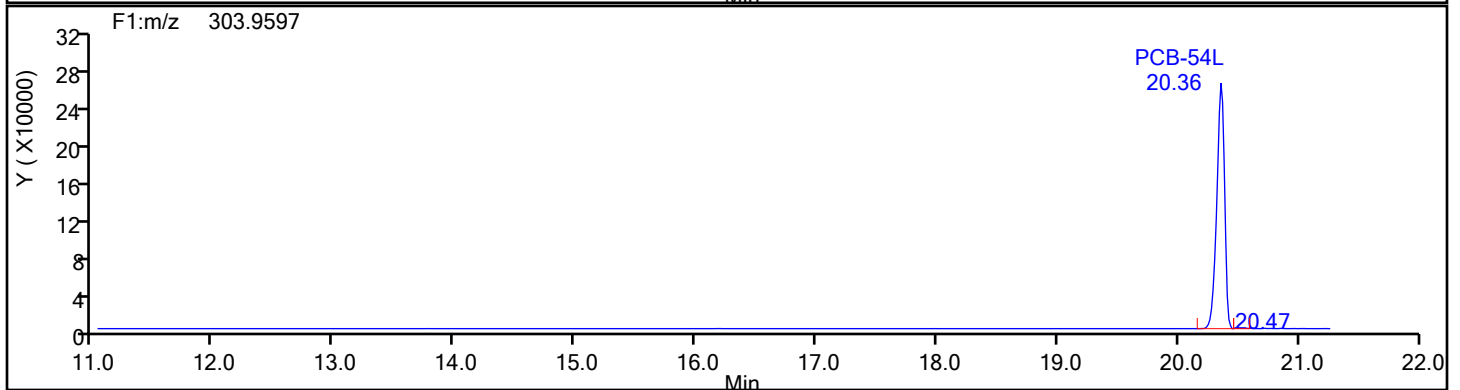
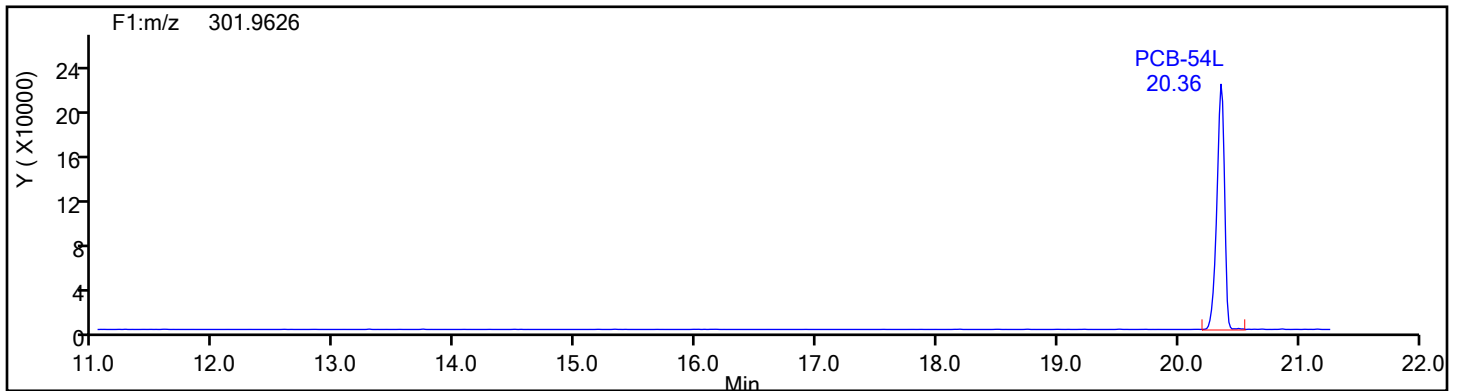


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

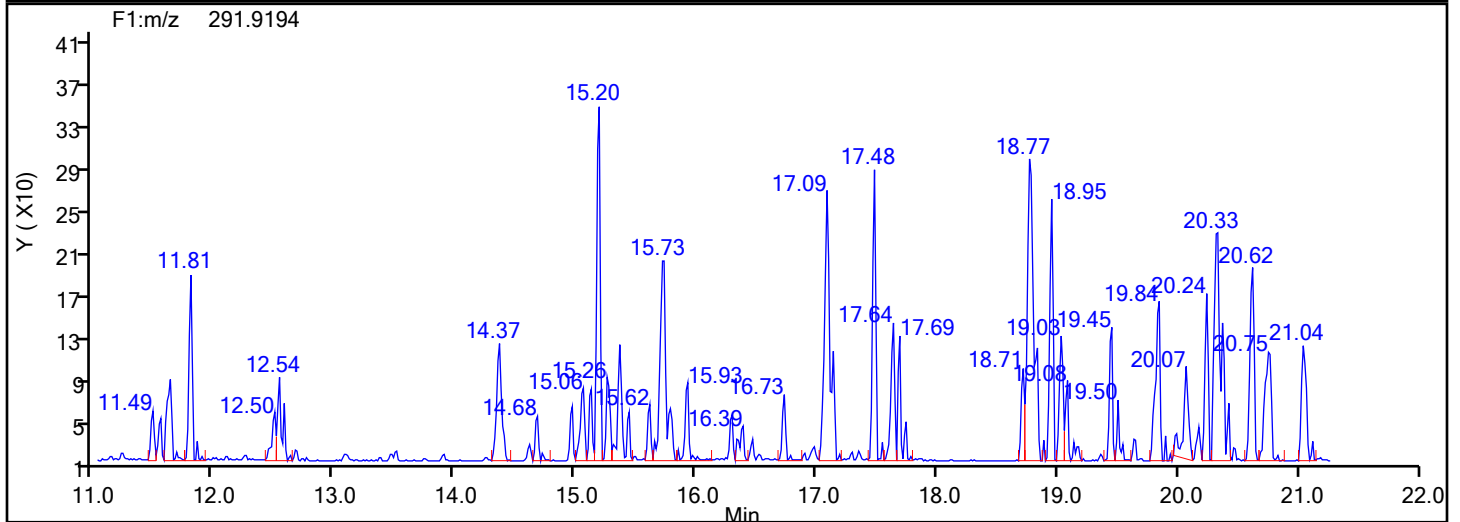
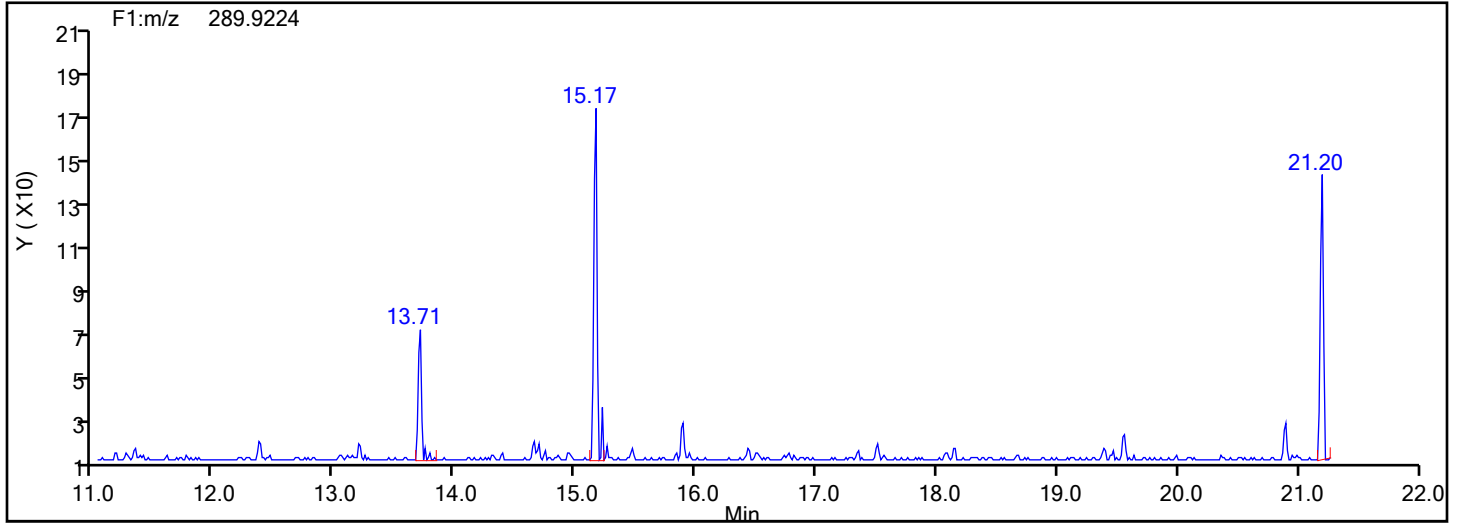


TePCB F1 Standards

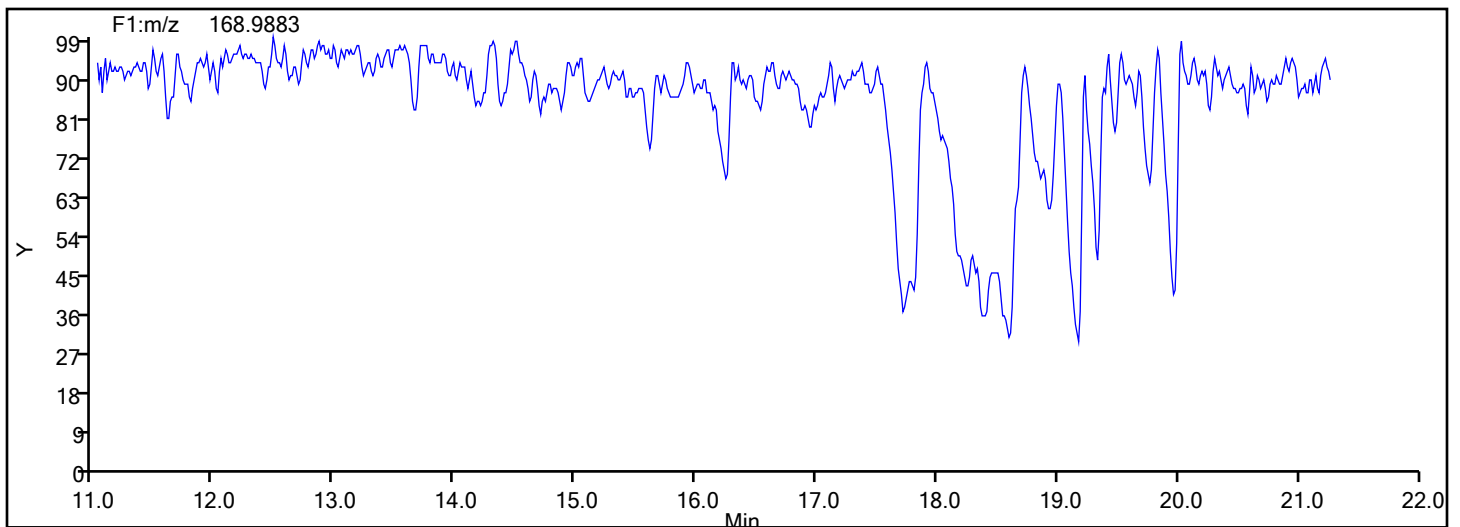


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

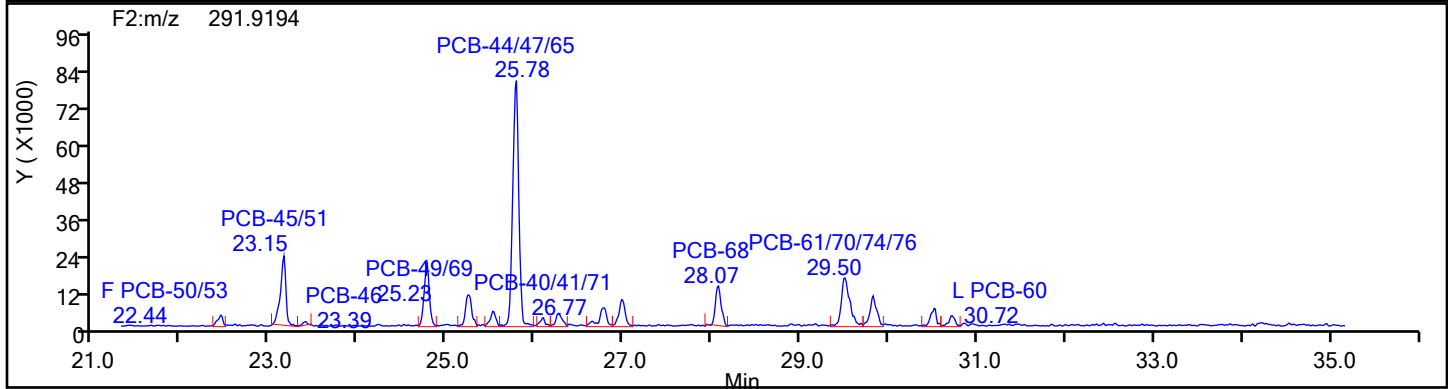
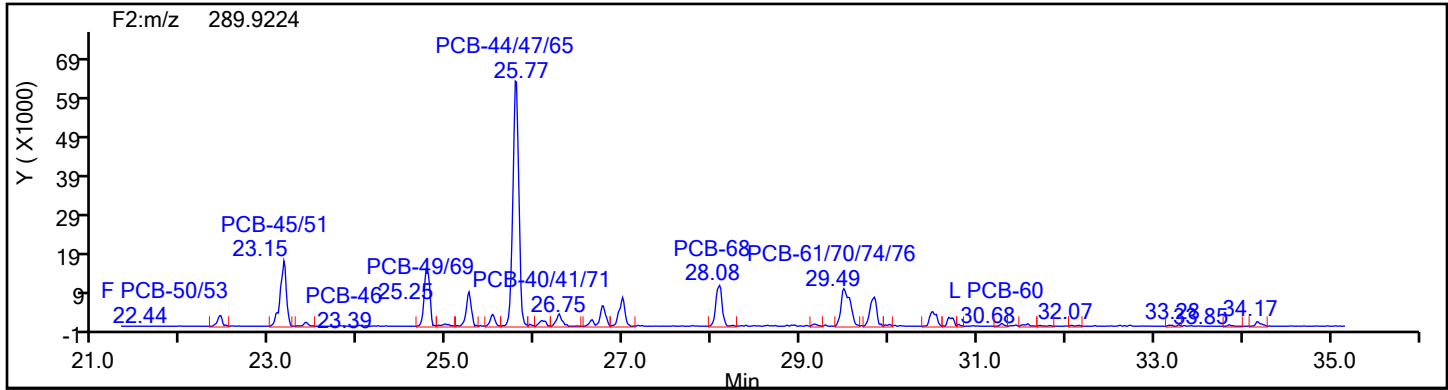


TePCB F1 Lock Mass

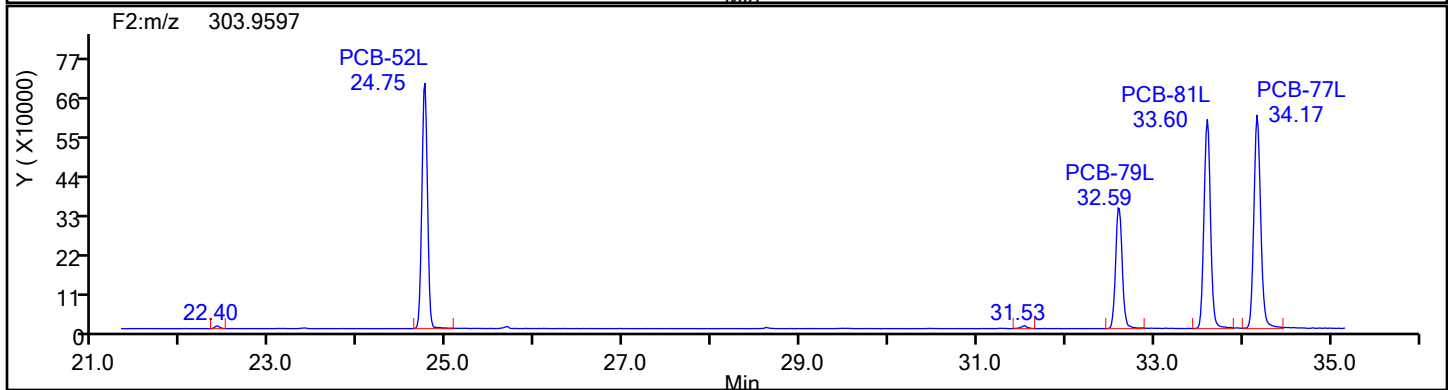
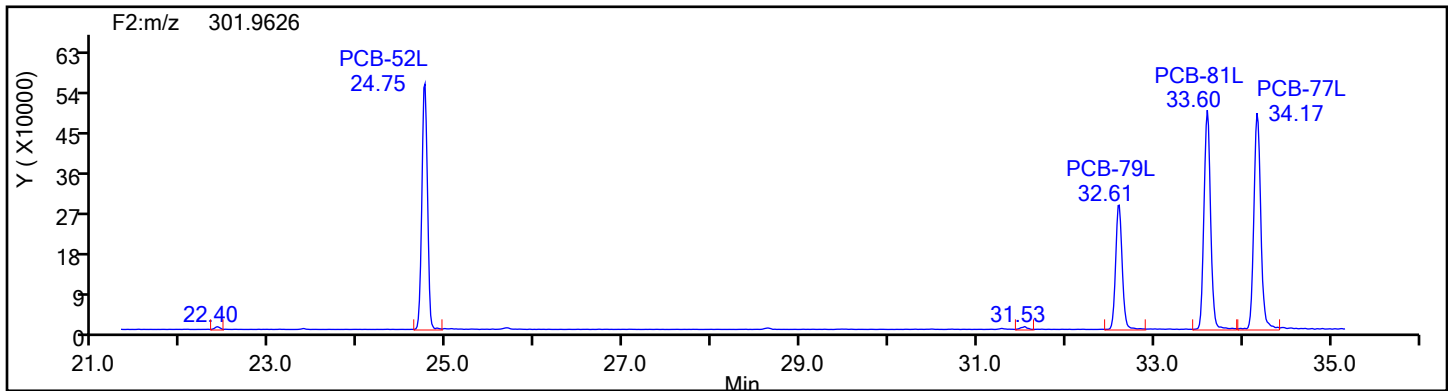


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

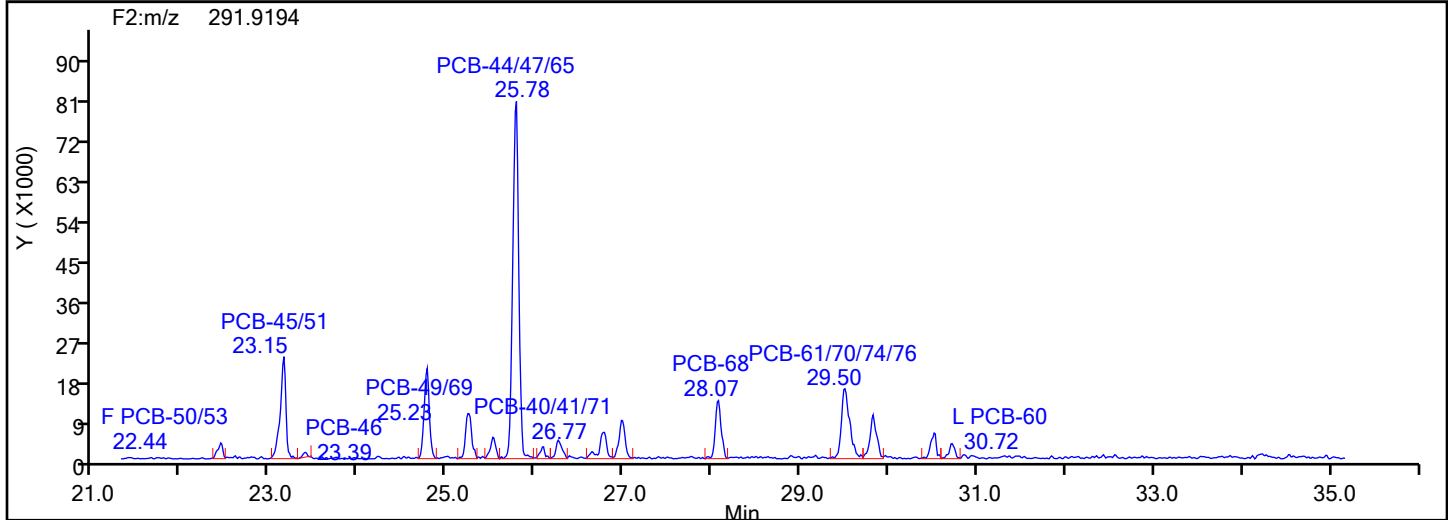
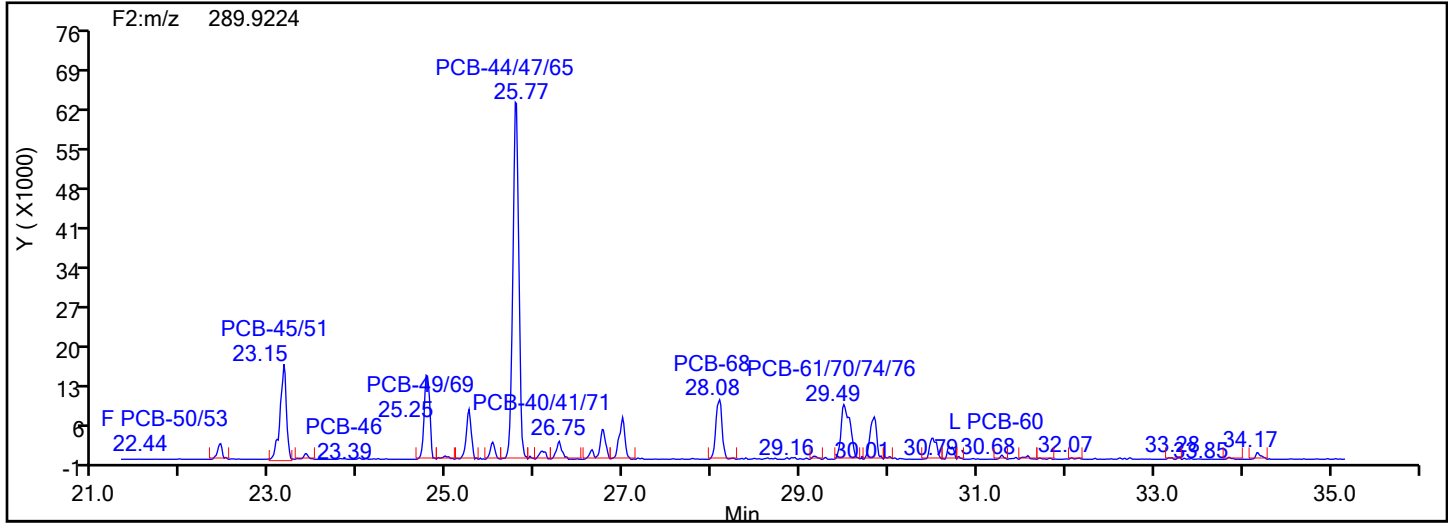


TePCB F2 Standards

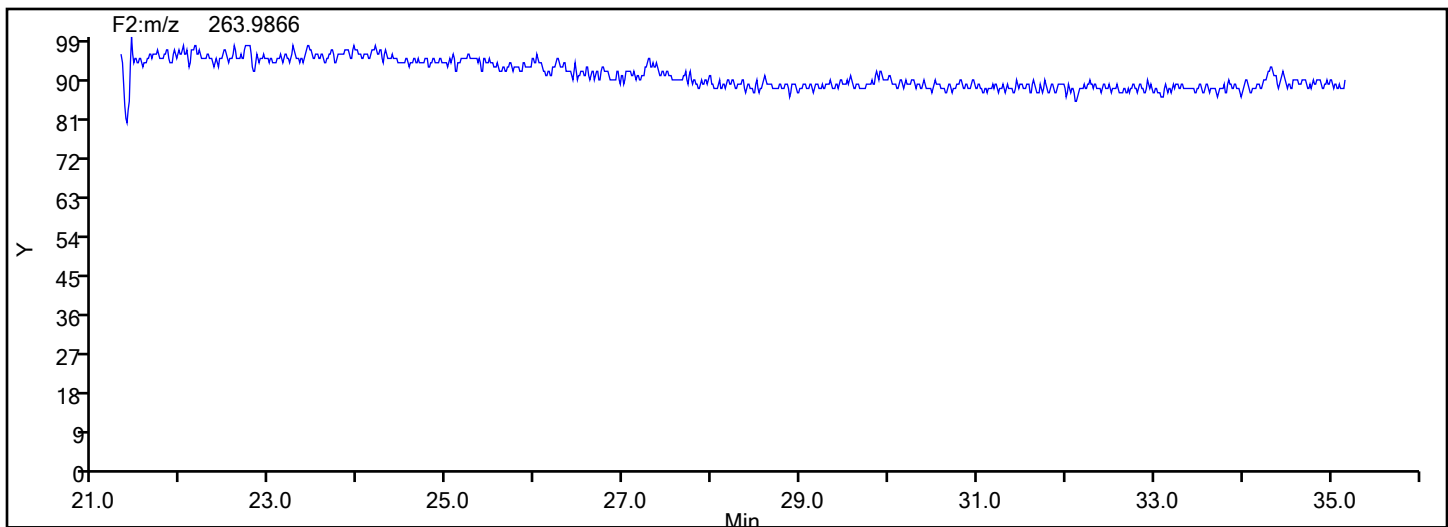


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

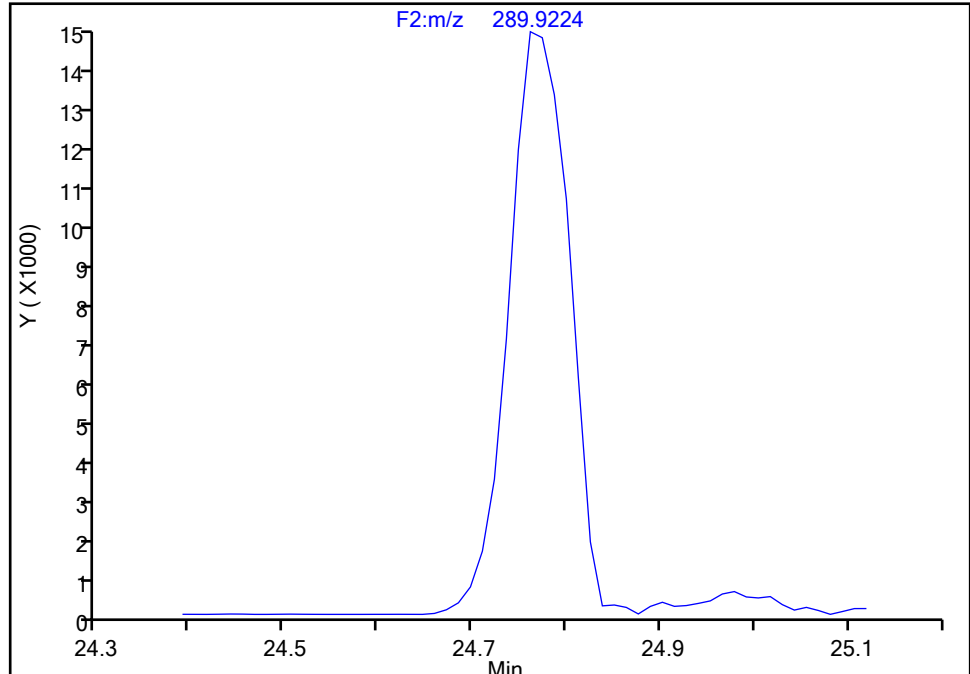
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Injection Date: 16-Jul-2024 07:01:00 Instrument ID: D2D
Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

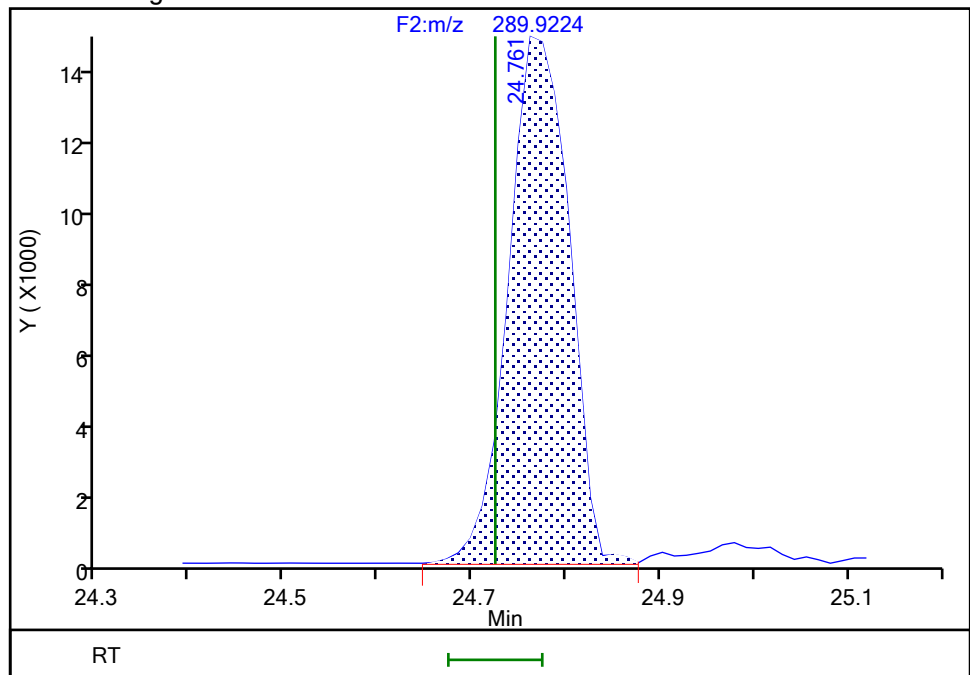
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Expected RT: 24.72

Processing Integration Results



RT: 24.76
Area: 66497
Amount: 2.817000
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 23:33:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

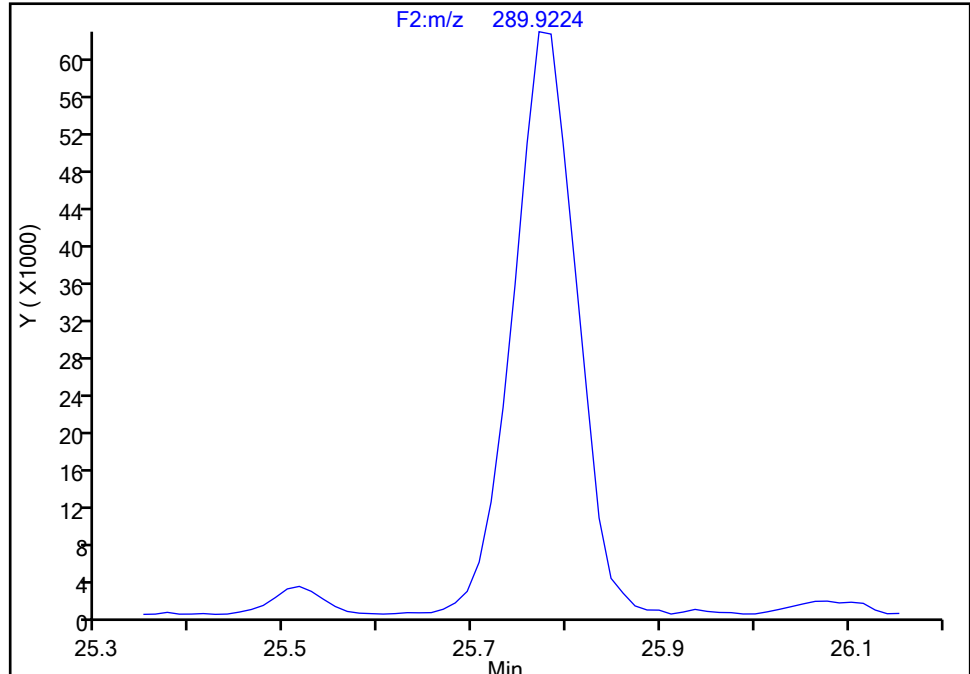
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

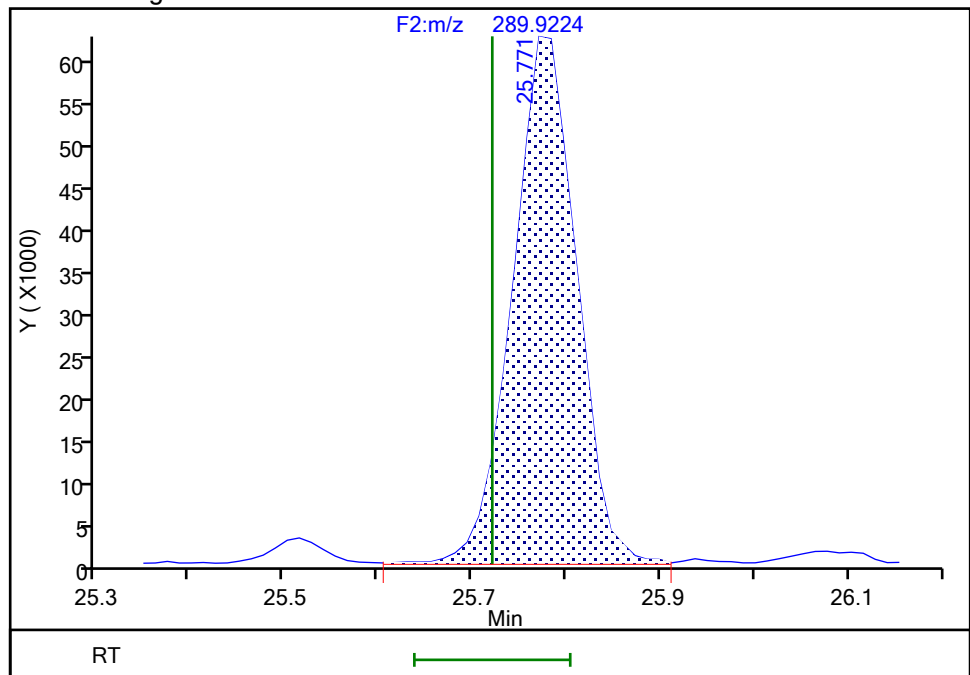
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Processing Integration Results



RT: 25.77
Area: 296892
Amount: 12.061967
Amount Units: pg/ul

Manual Integration Results



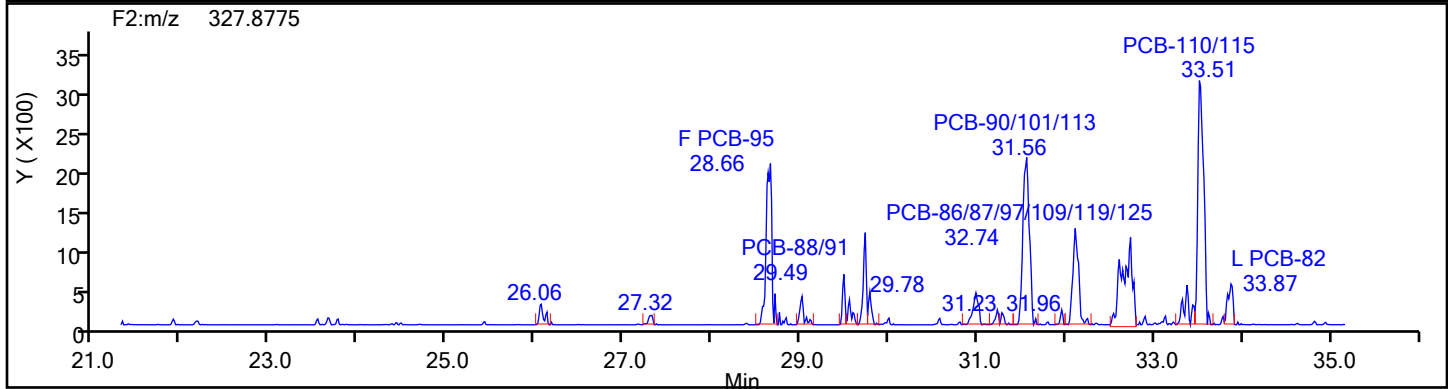
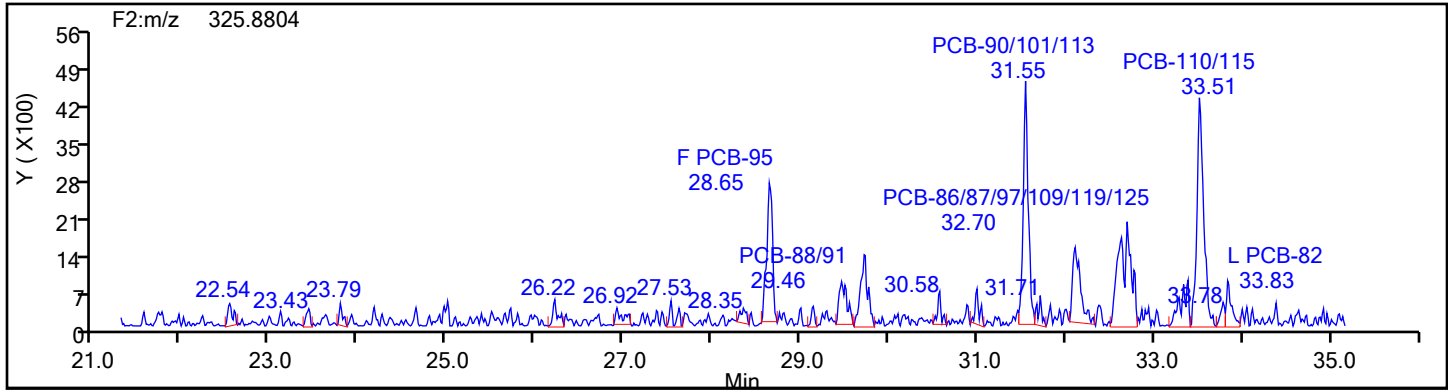
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Audit Action: Assigned Compound ID

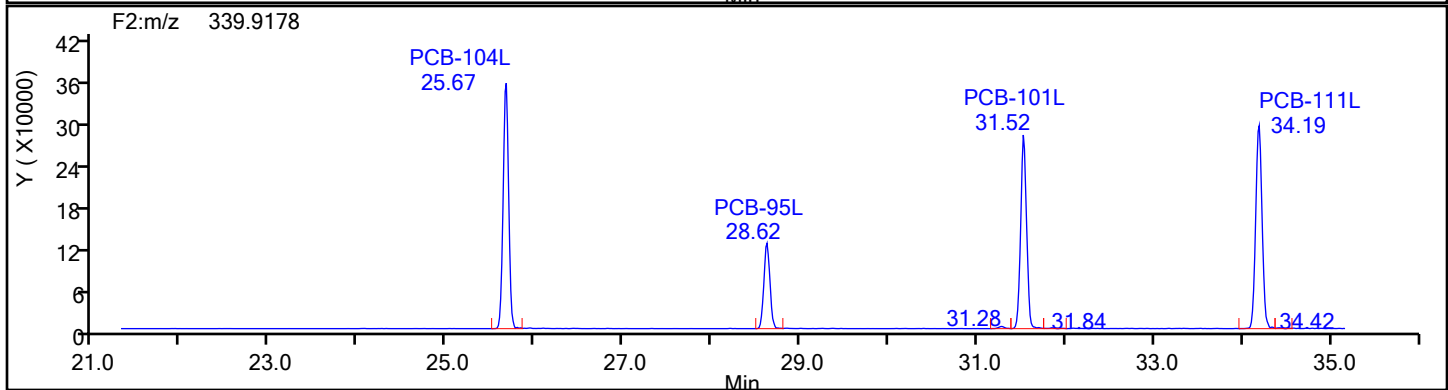
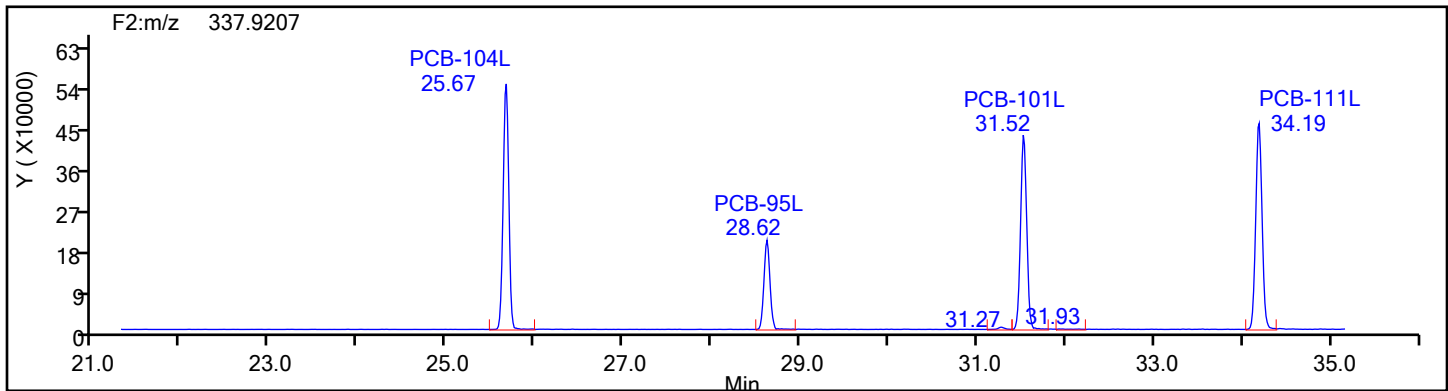
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 07:01:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

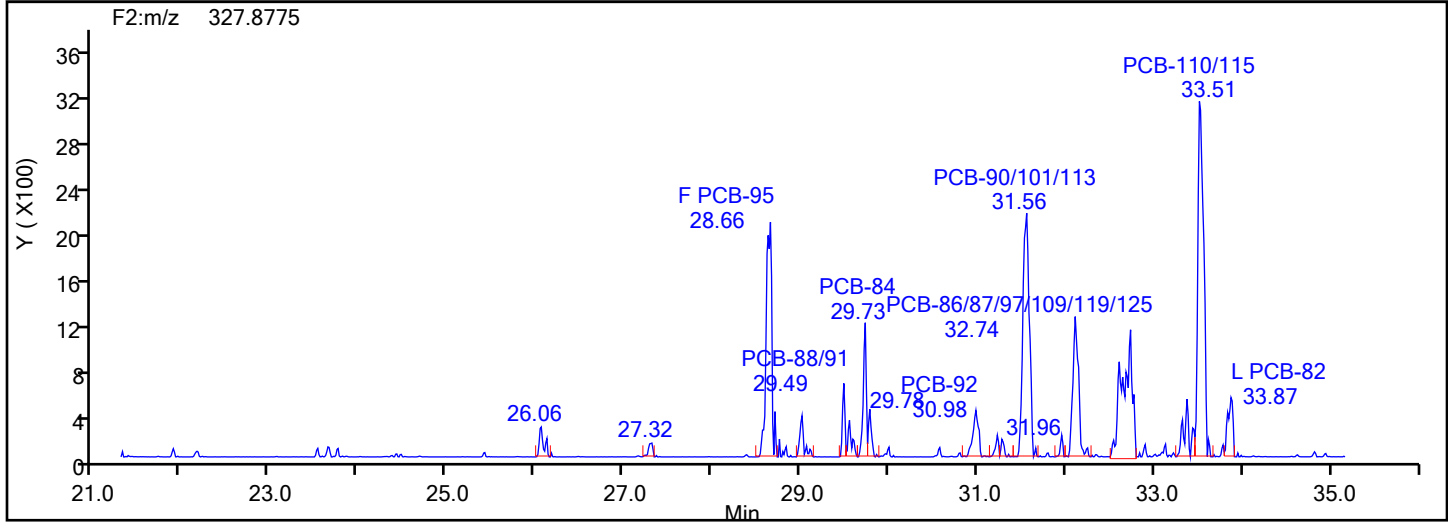
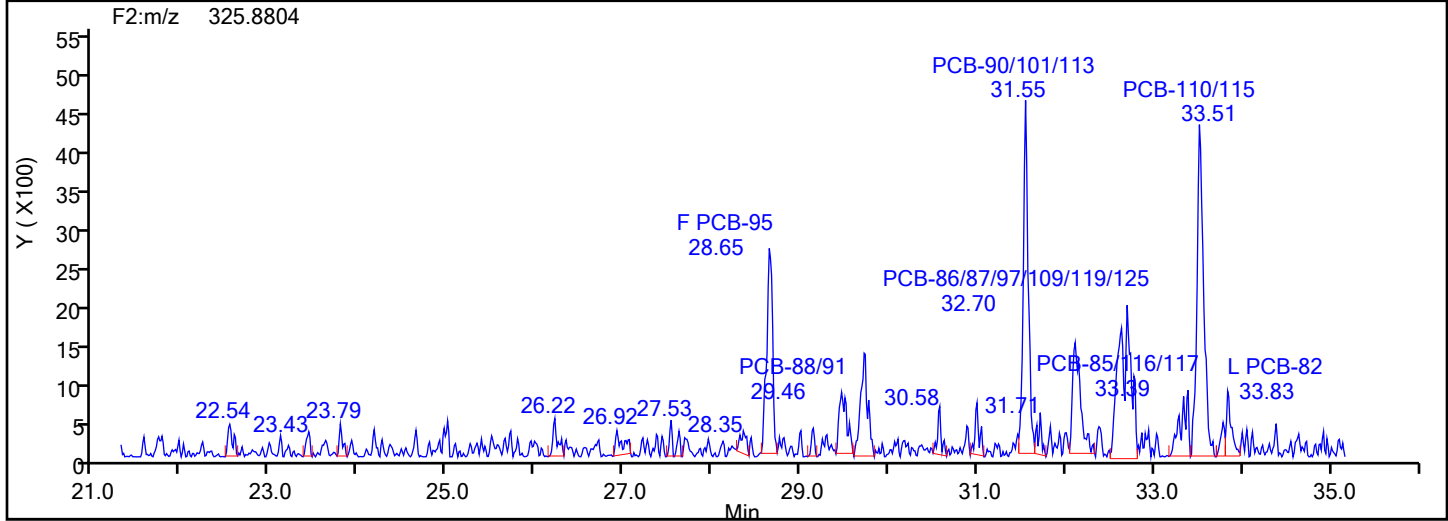


PePCB F2 Standards

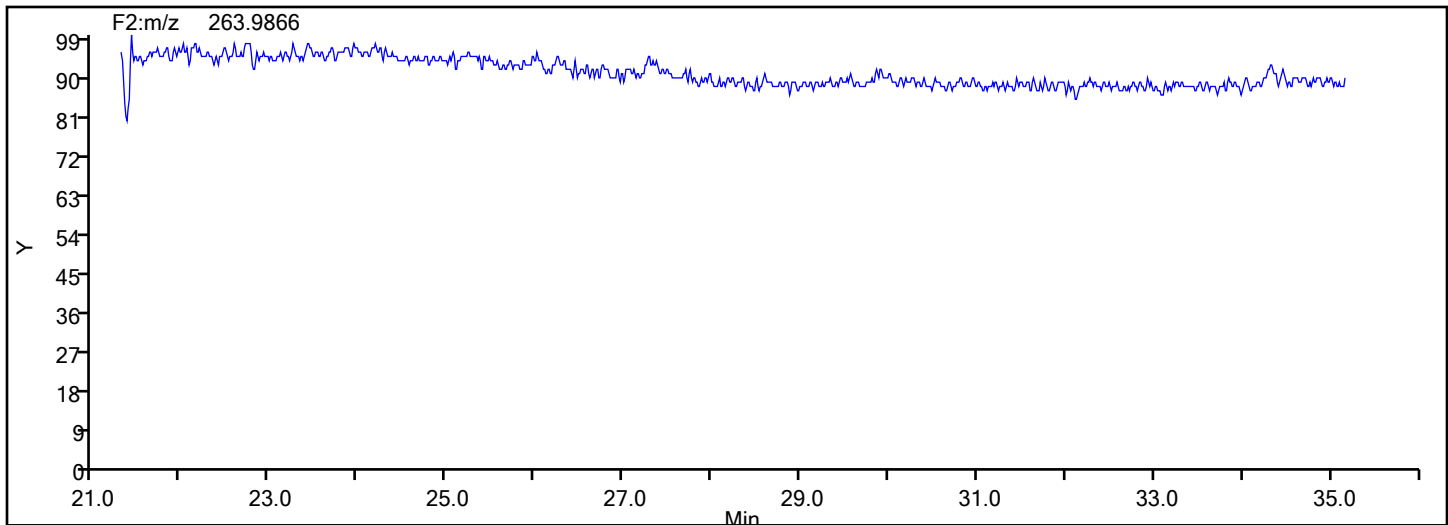


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

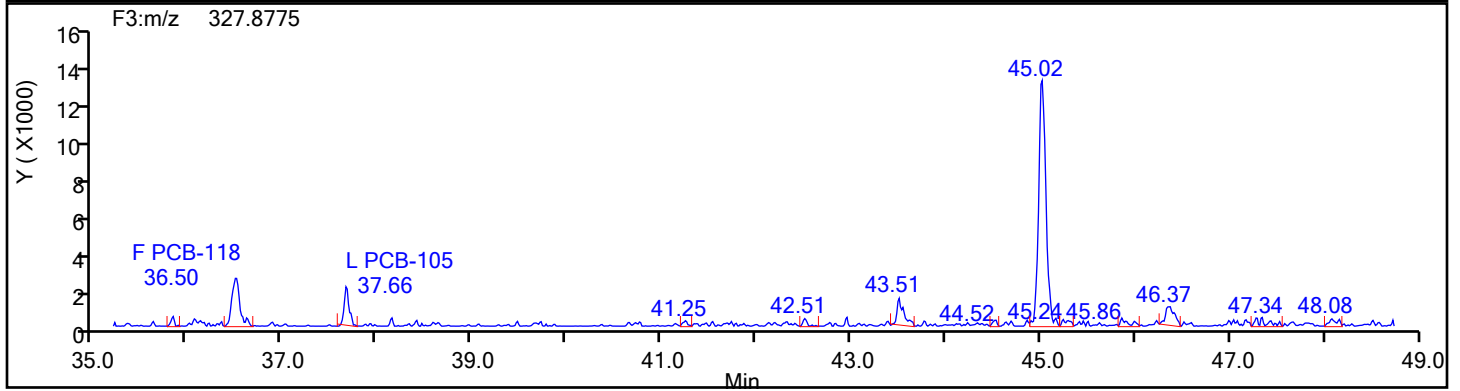
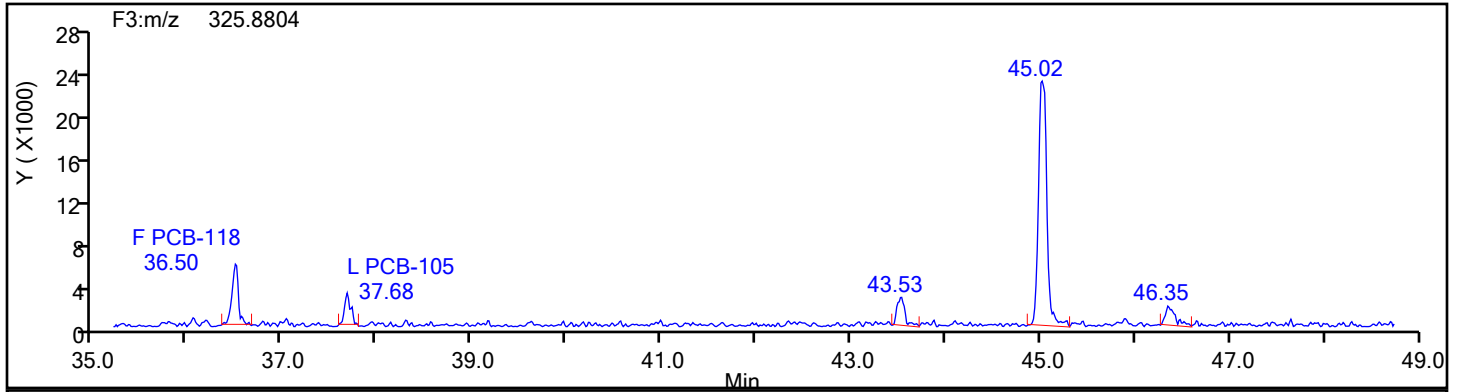


PePCB F2 Lock Mass

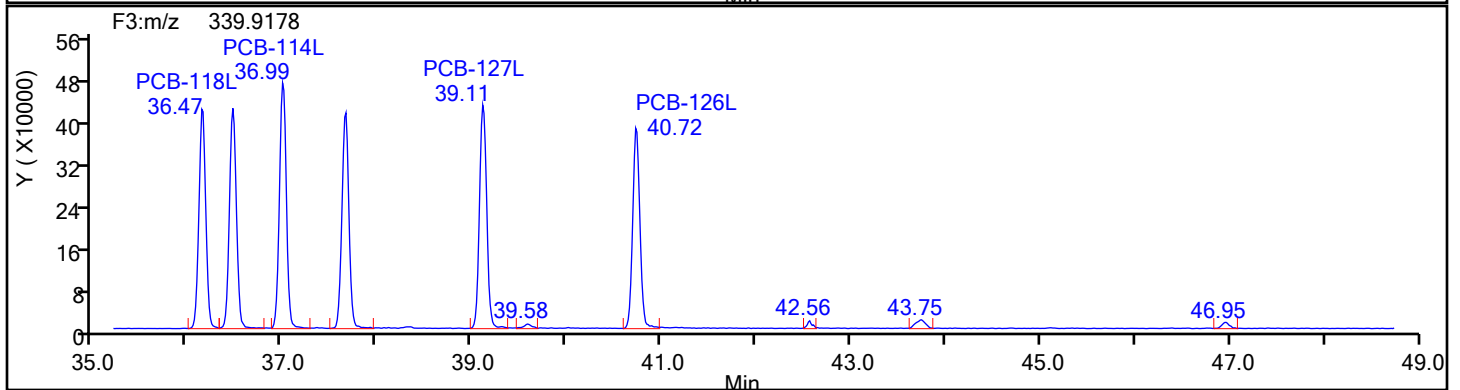
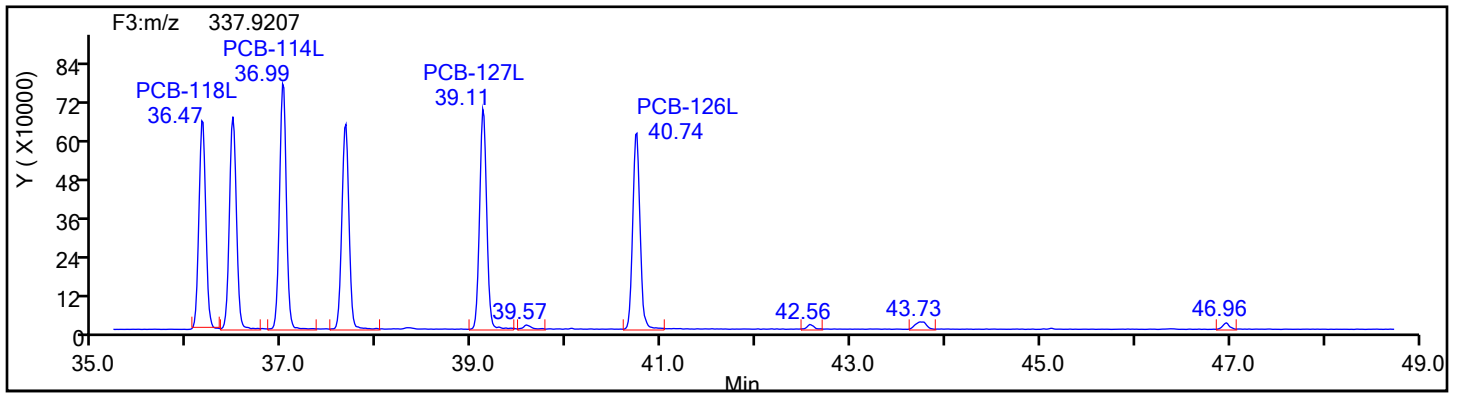


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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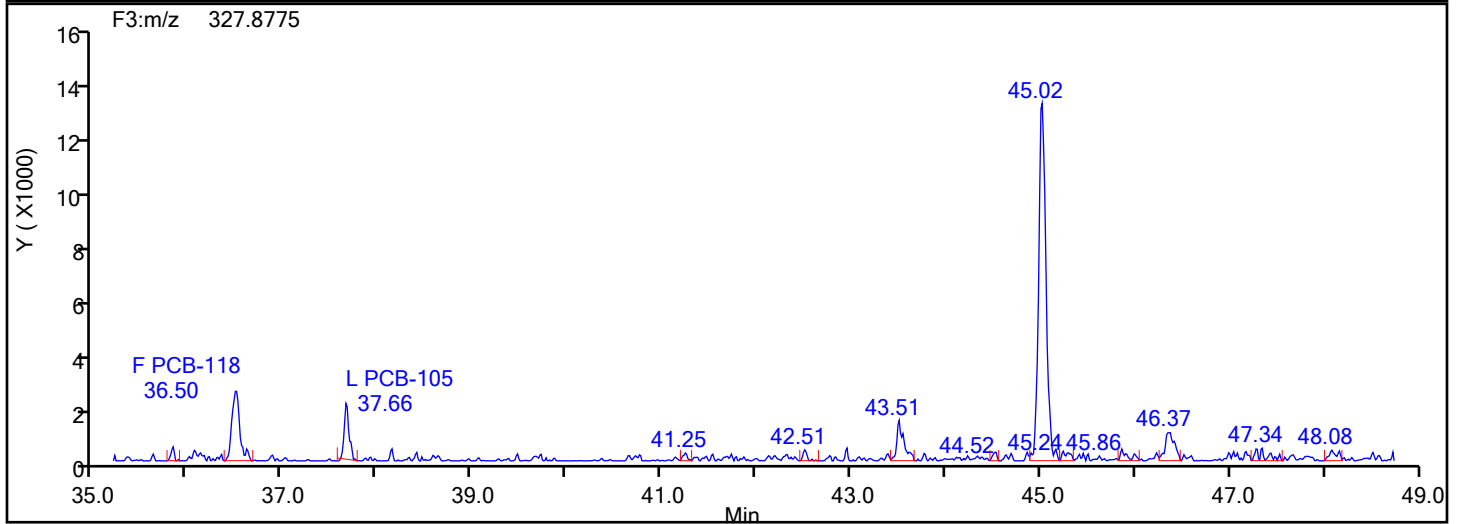
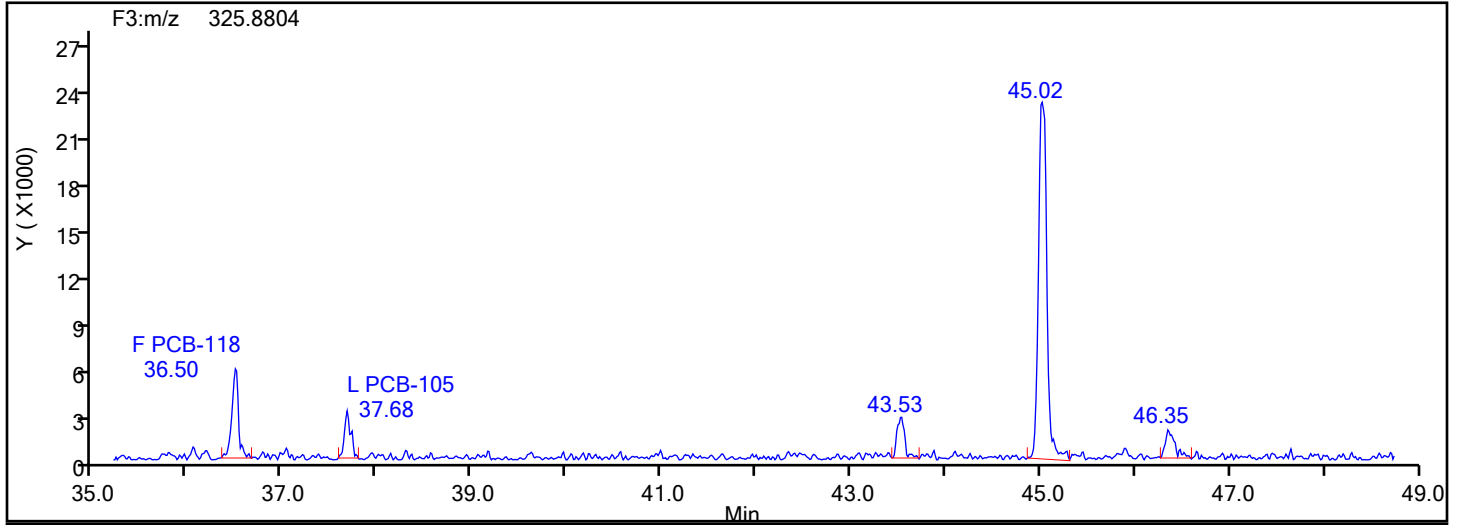


PePCB F3 Standards

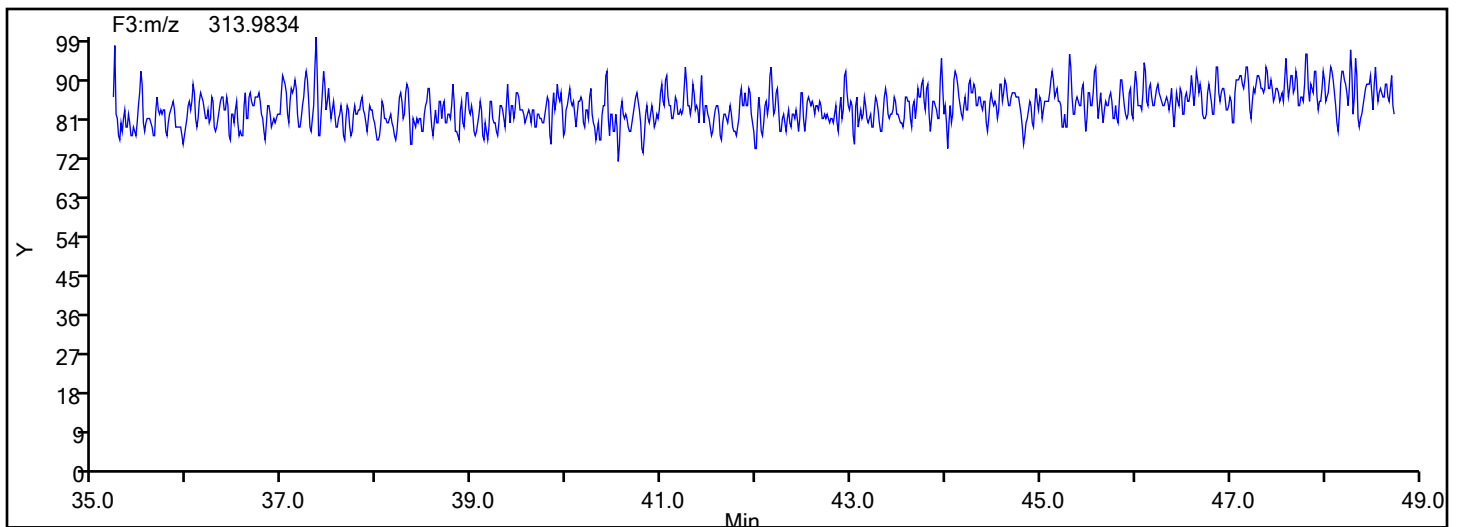


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

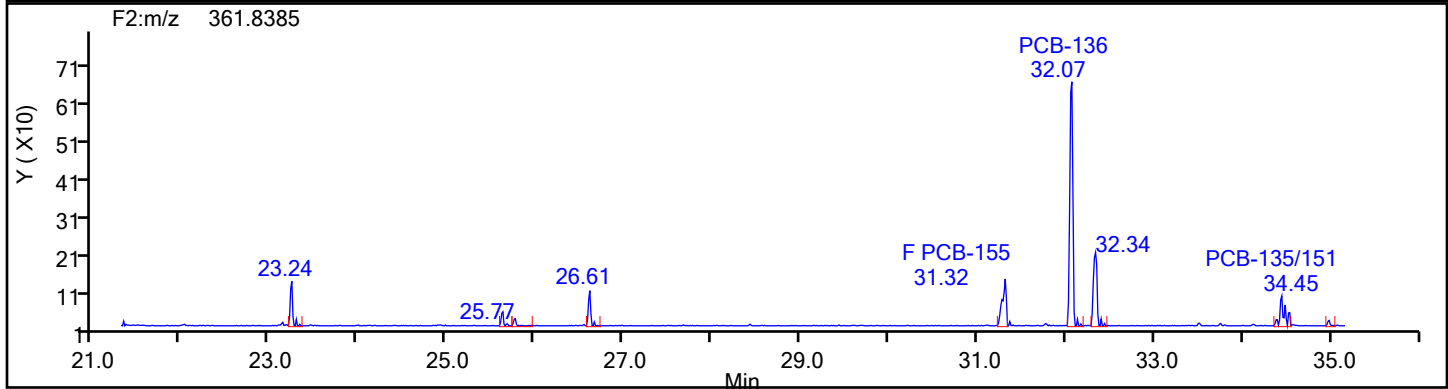
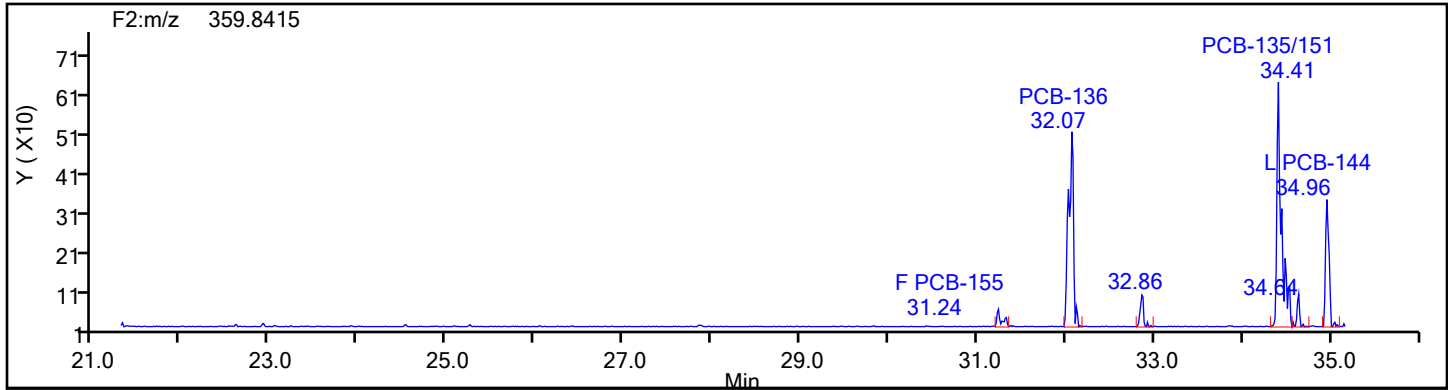


PePCB F3 Lock Mass

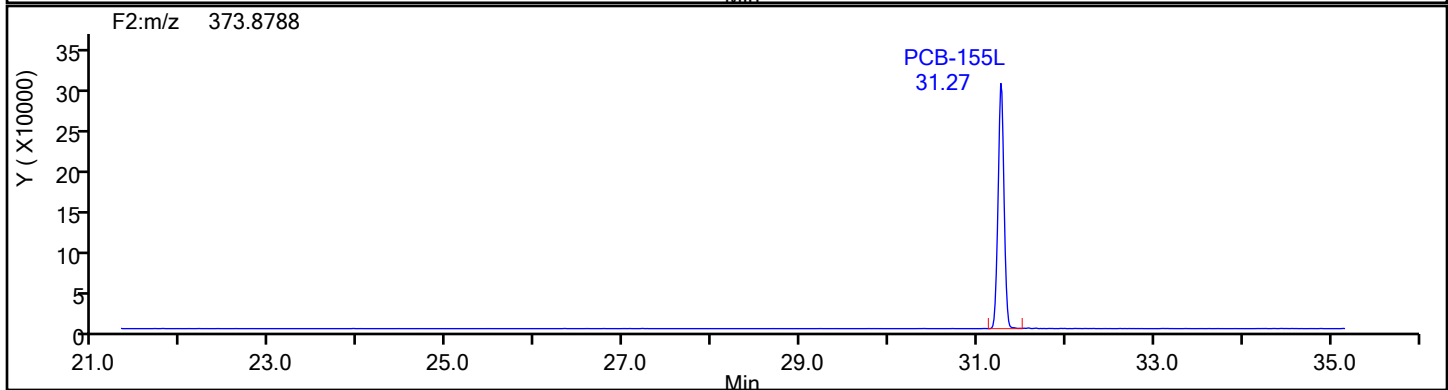
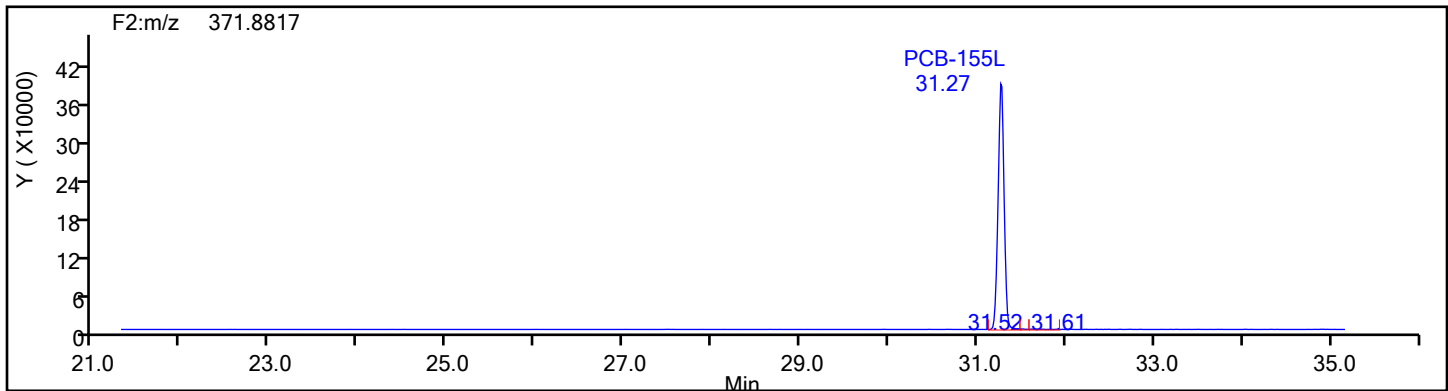


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

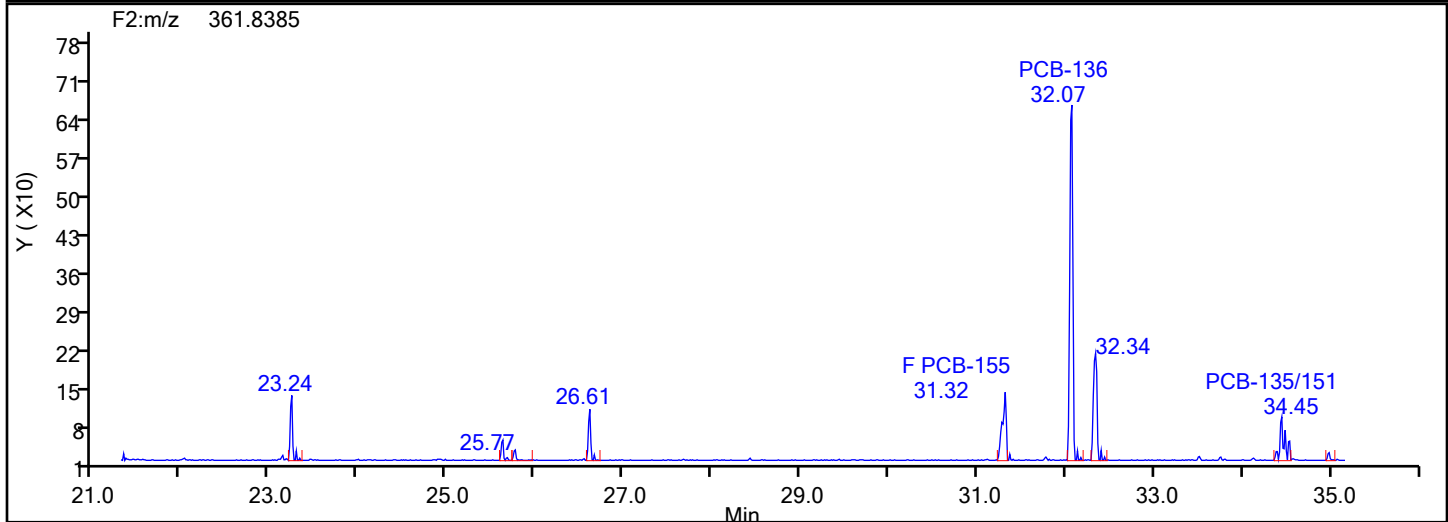
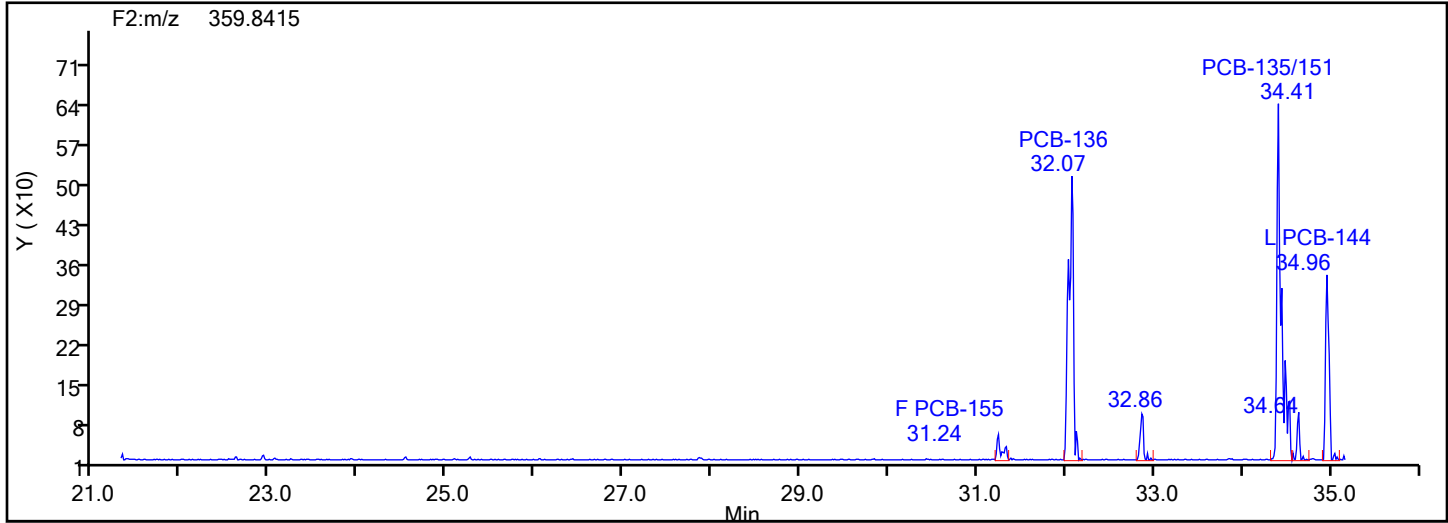


HxPCB F2 Standards

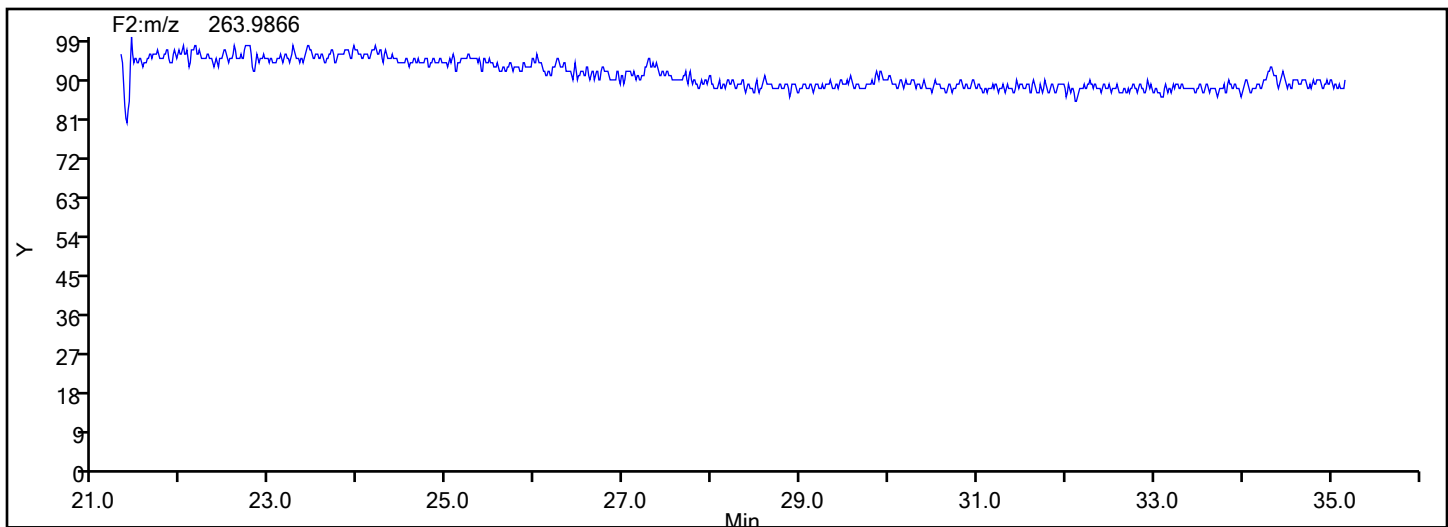


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

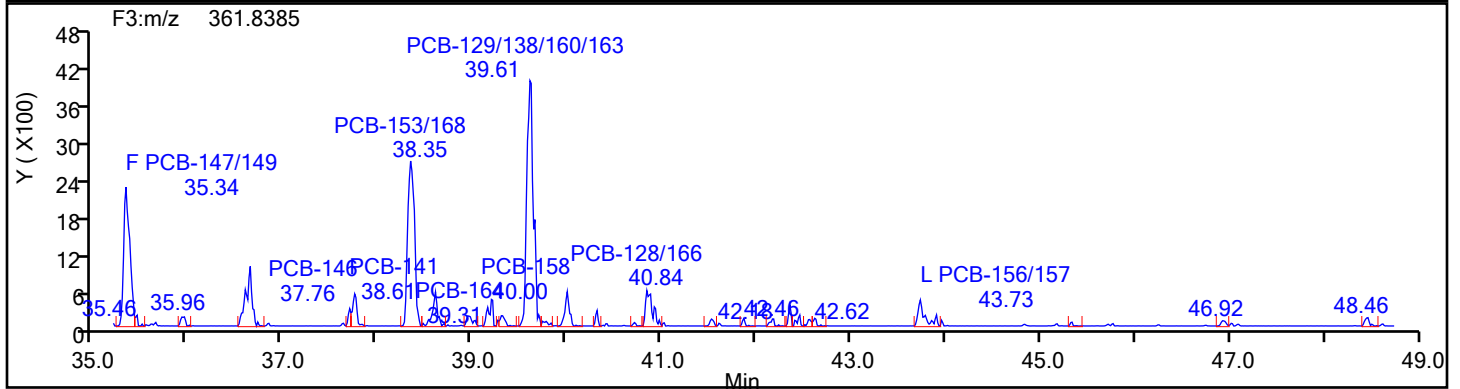
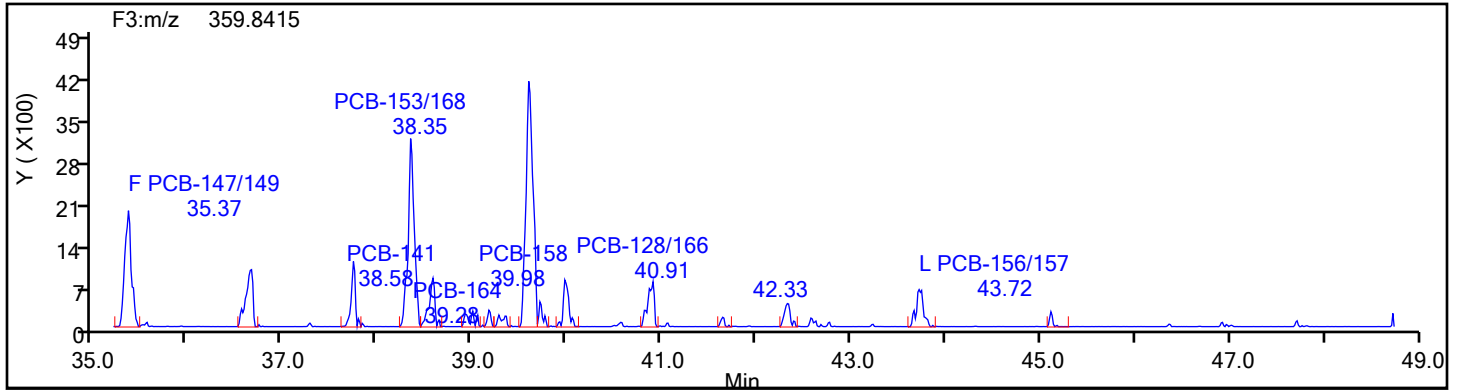


HxPCB F2 Lock Mass

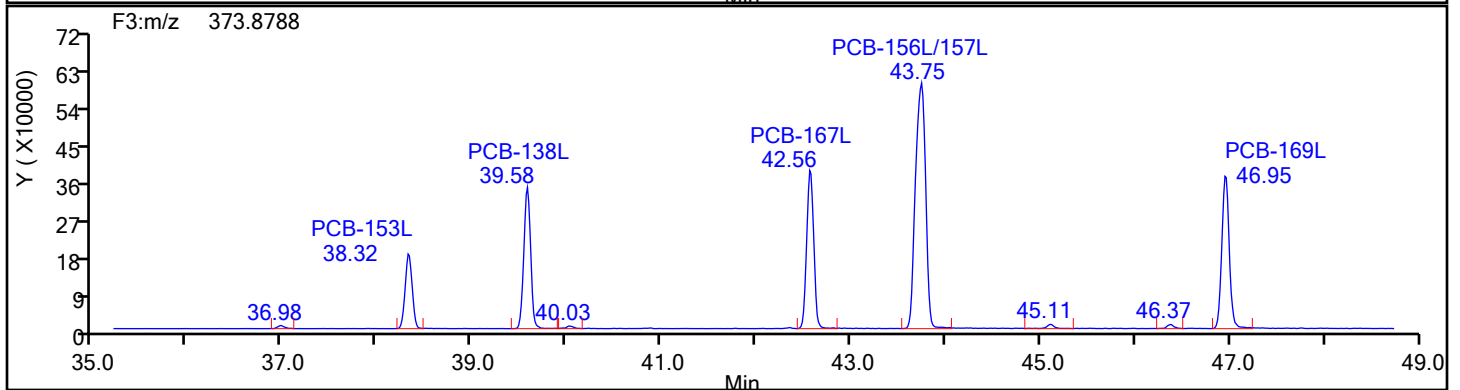
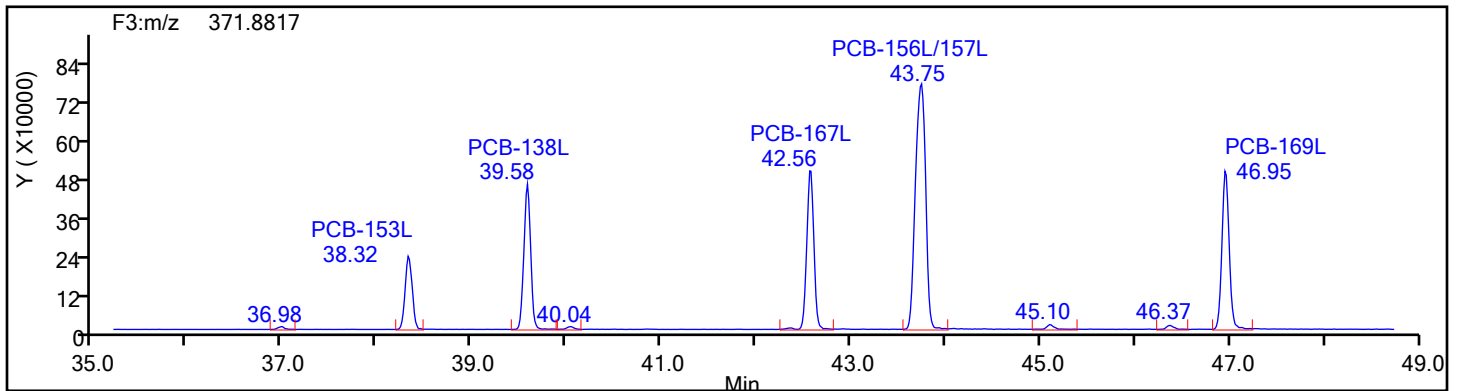


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

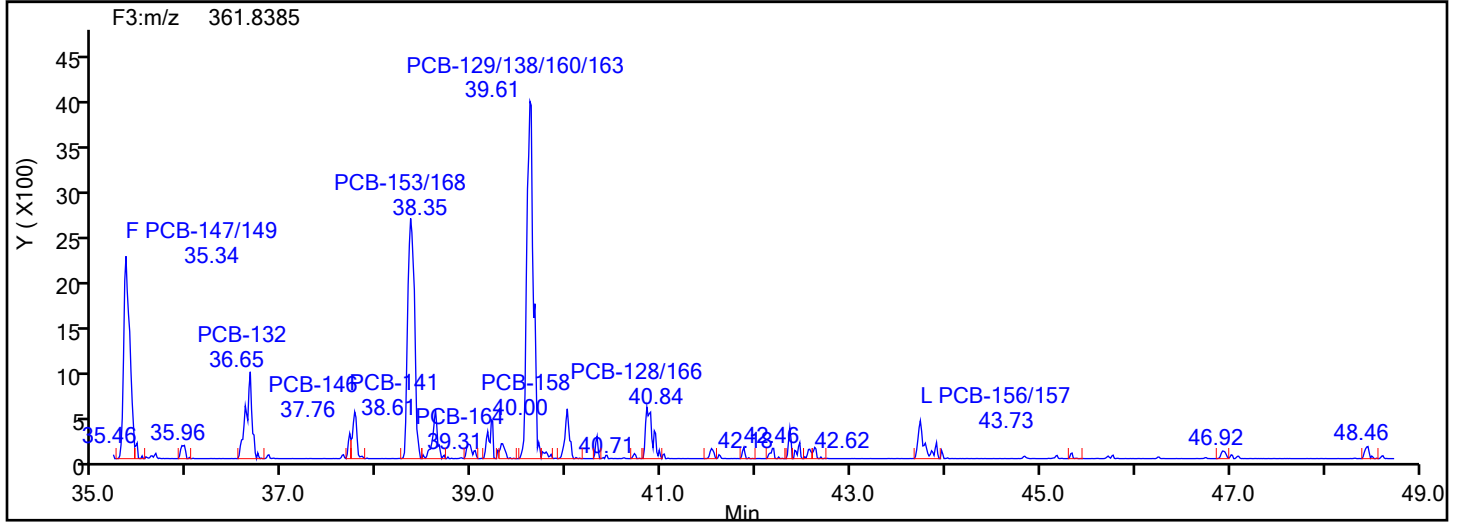
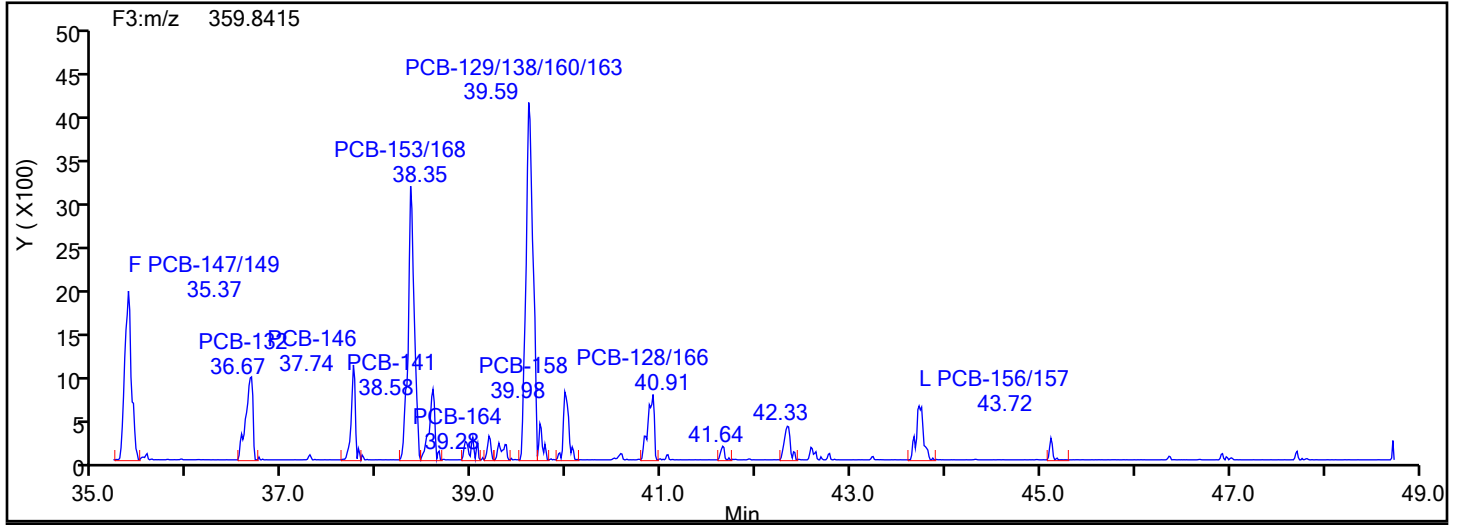


HxPCB F3 Standards

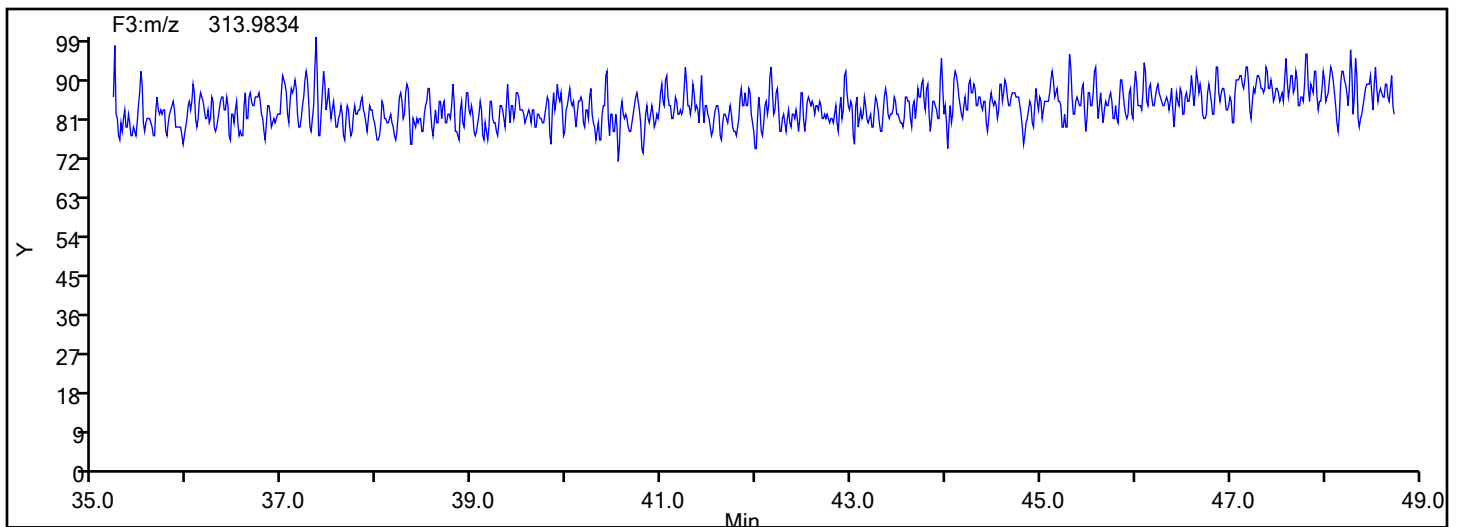


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

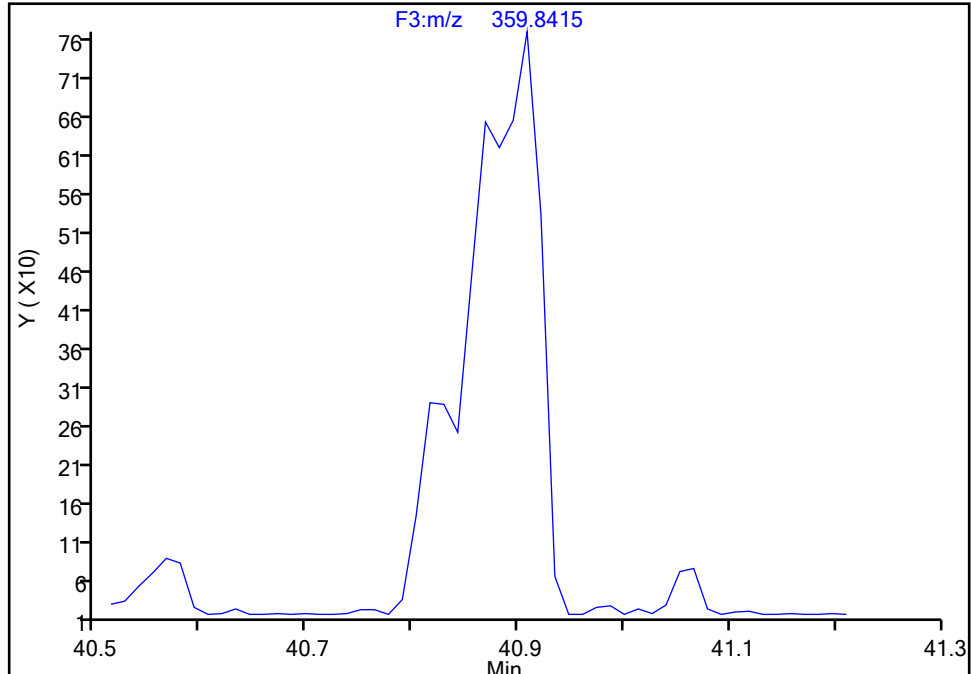
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Injection Date: 16-Jul-2024 07:01:00 Instrument ID: D2D
Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

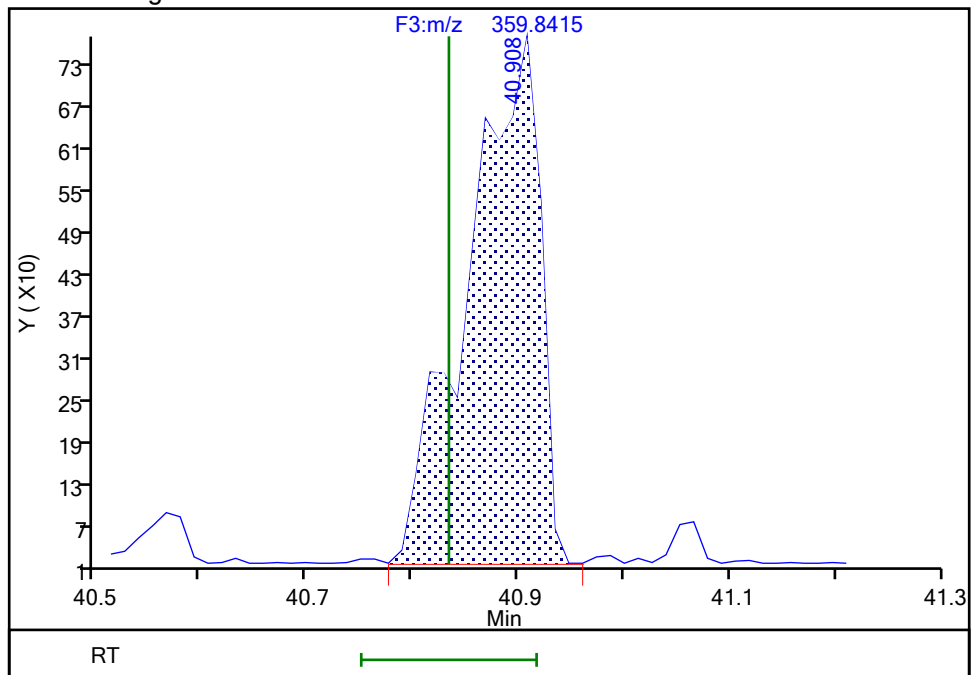
Not Detected
Expected RT: 40.83

Processing Integration Results



RT: 40.91
Area: 3573
Amount: 0.134909
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 23:42:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

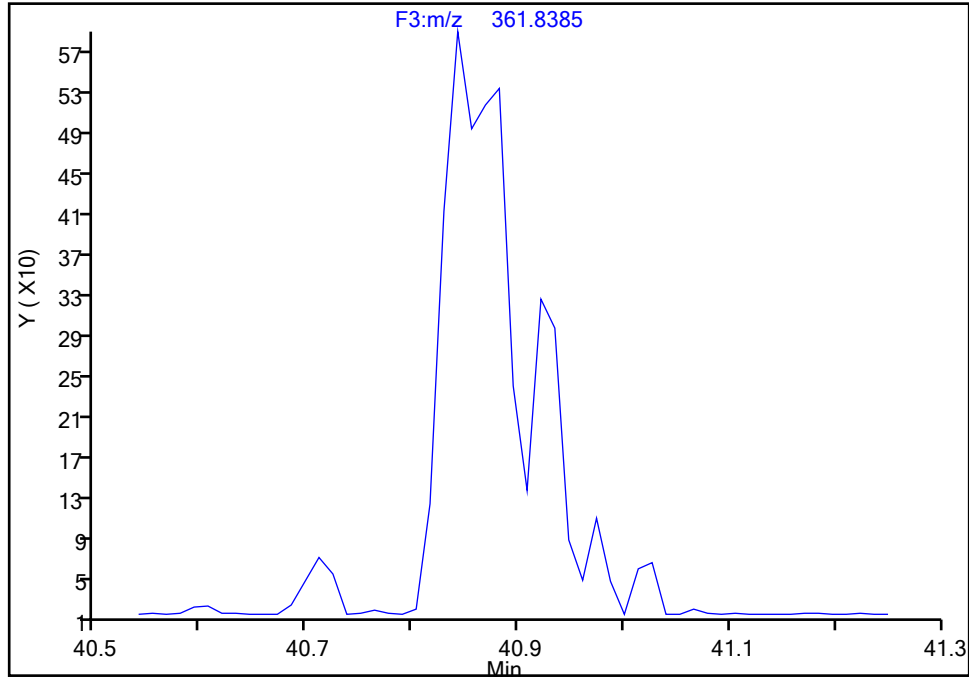
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 2

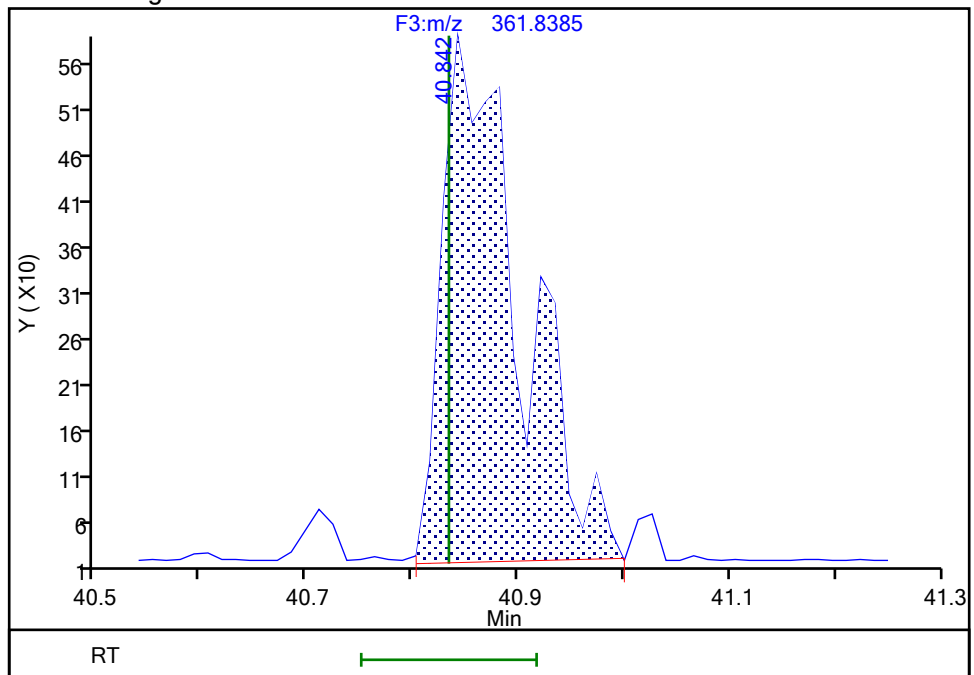
Not Detected
Expected RT: 40.83

Processing Integration Results



Manual Integration Results

RT: 40.84
Area: 2917
Amount: 0.134909
Amount Units: pg/ul



Reviewer: V4XA, 16-Jul-2024 23:42:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1369 of 3050

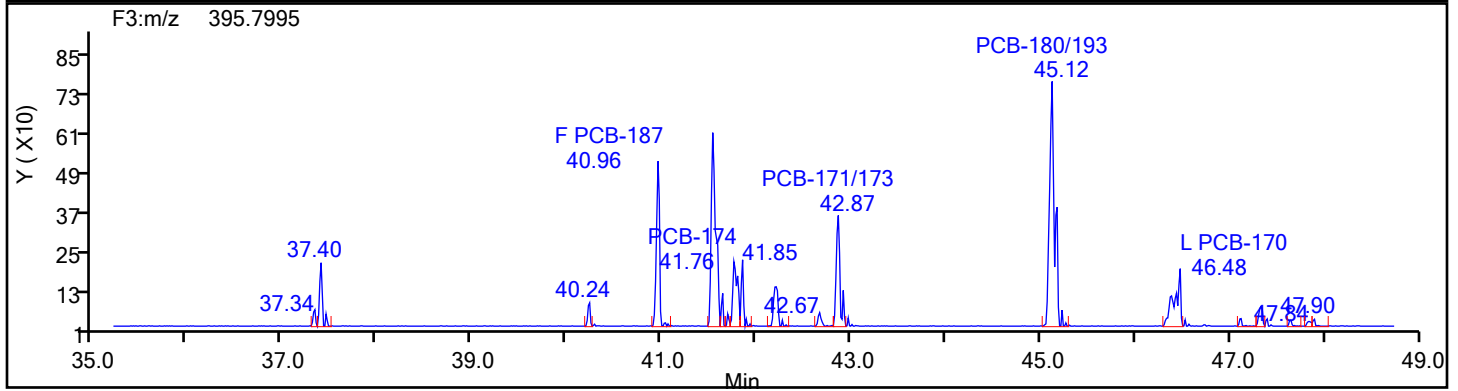
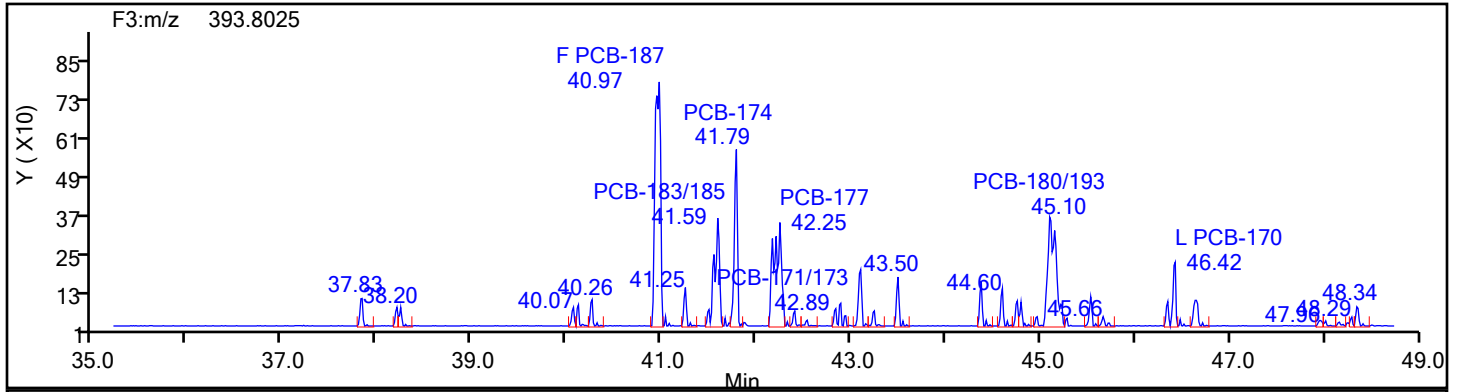
BASFWC-McIntosh-009370

9/6/2024

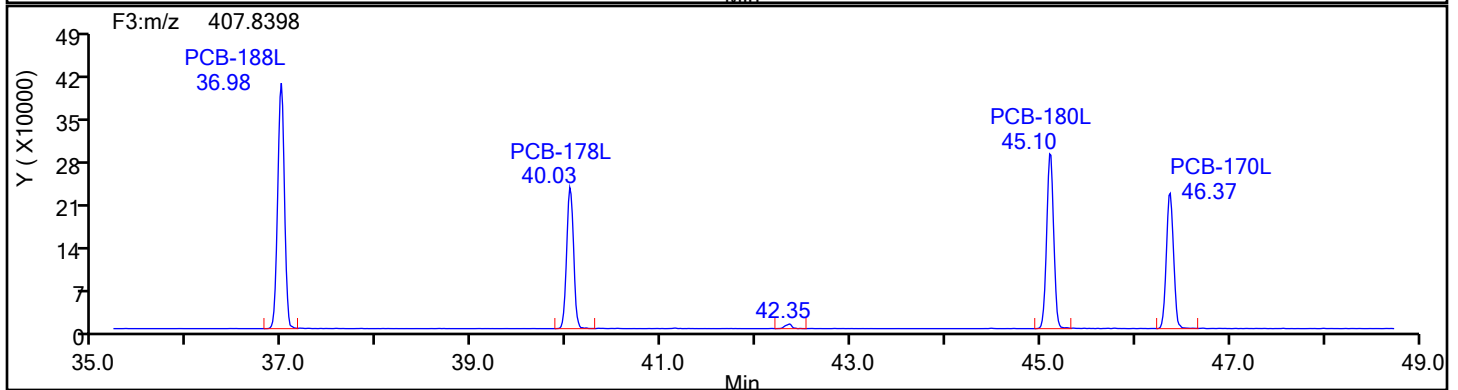
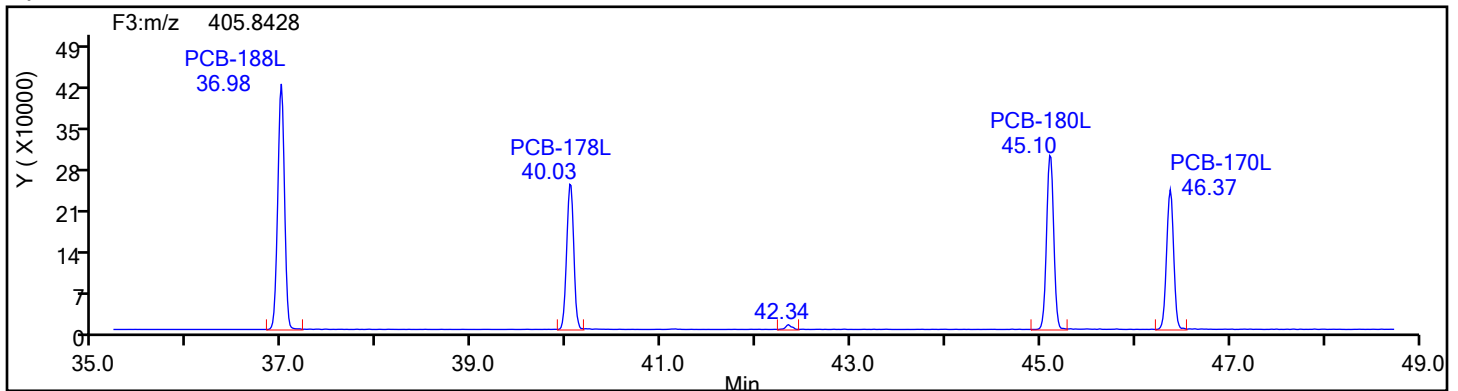
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

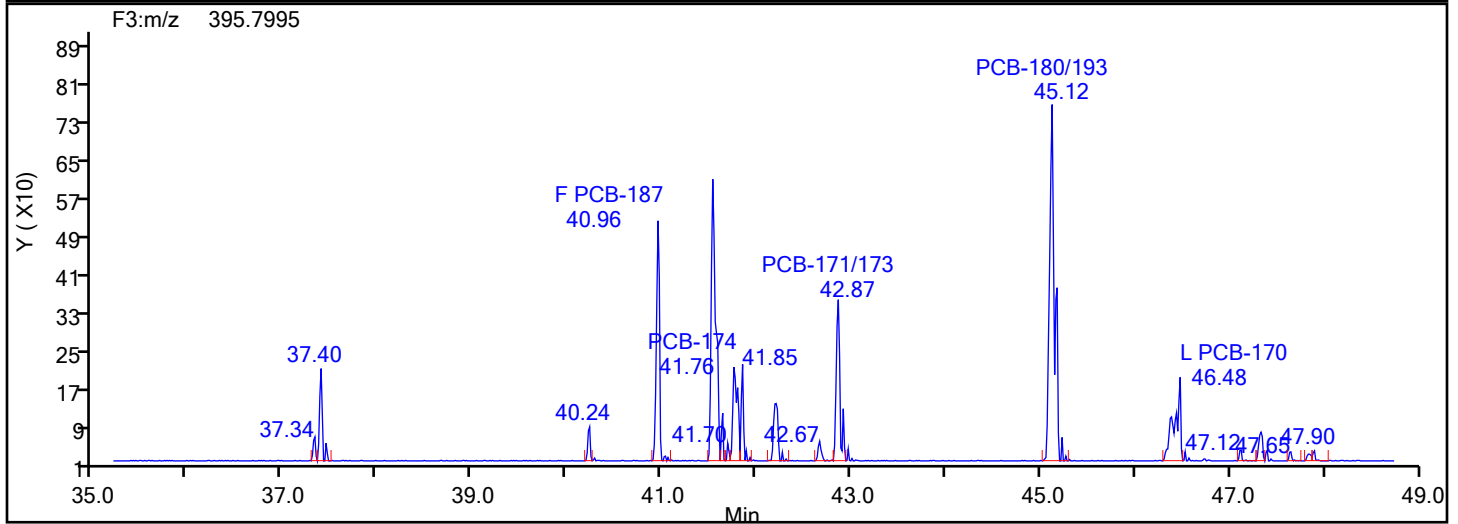
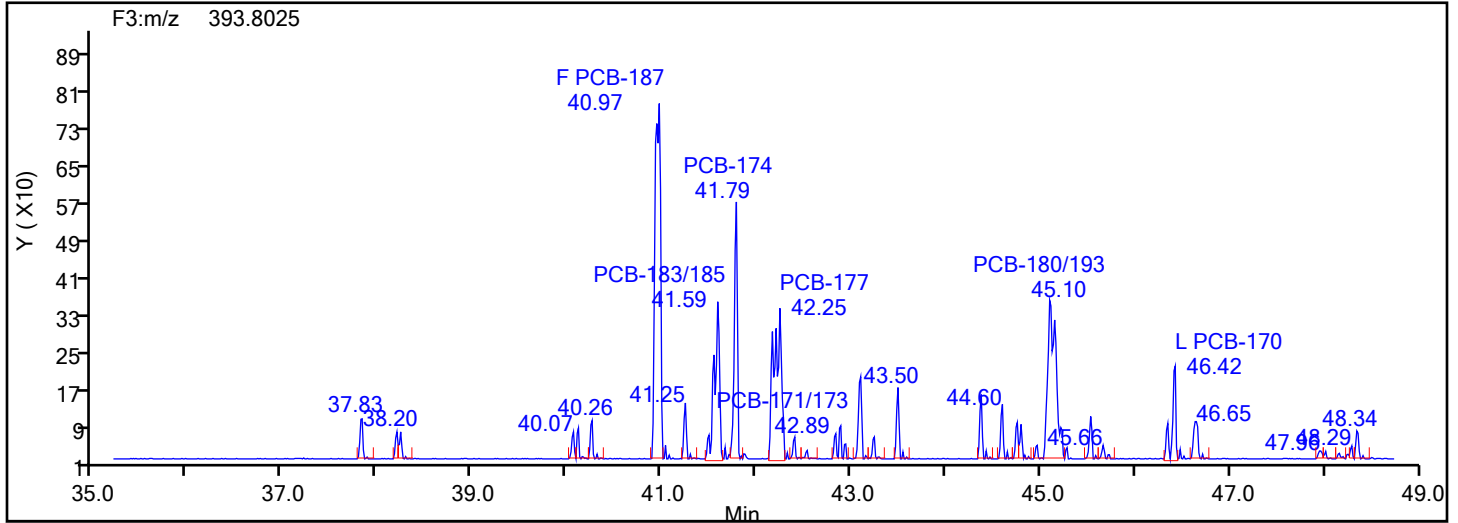


HpPCB F3 Standards

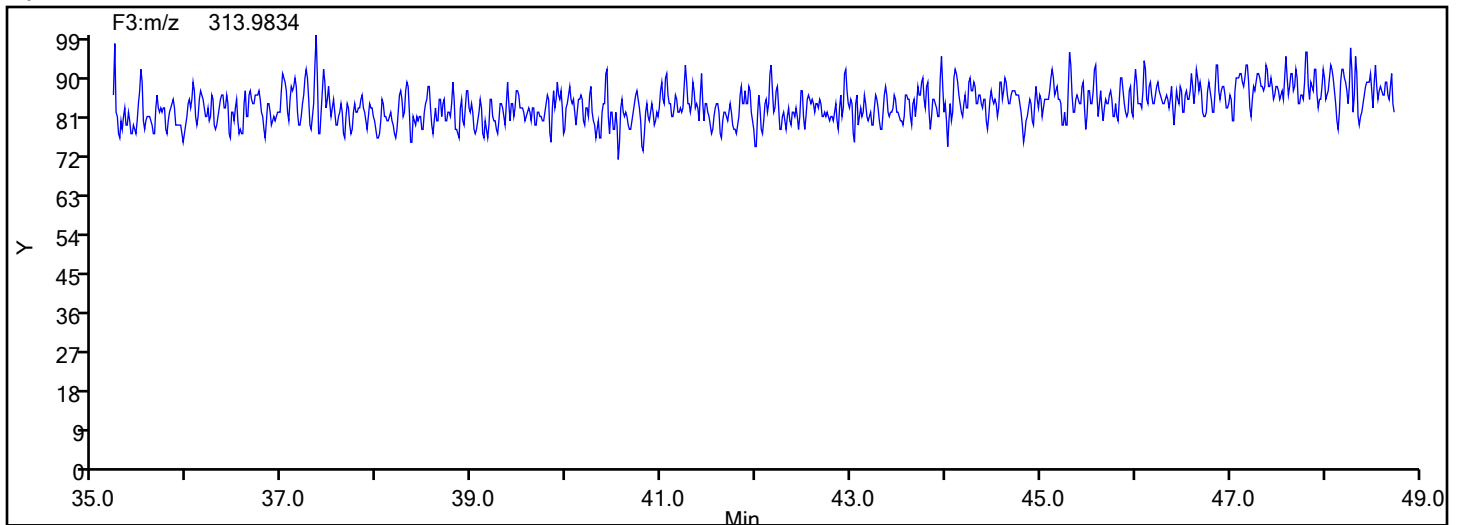


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

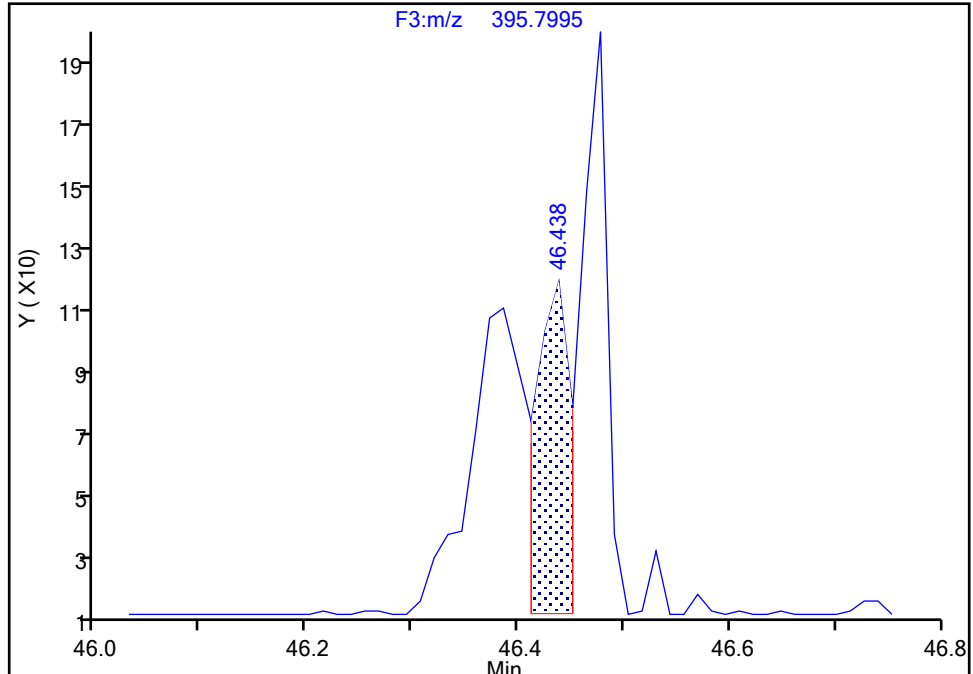
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 2

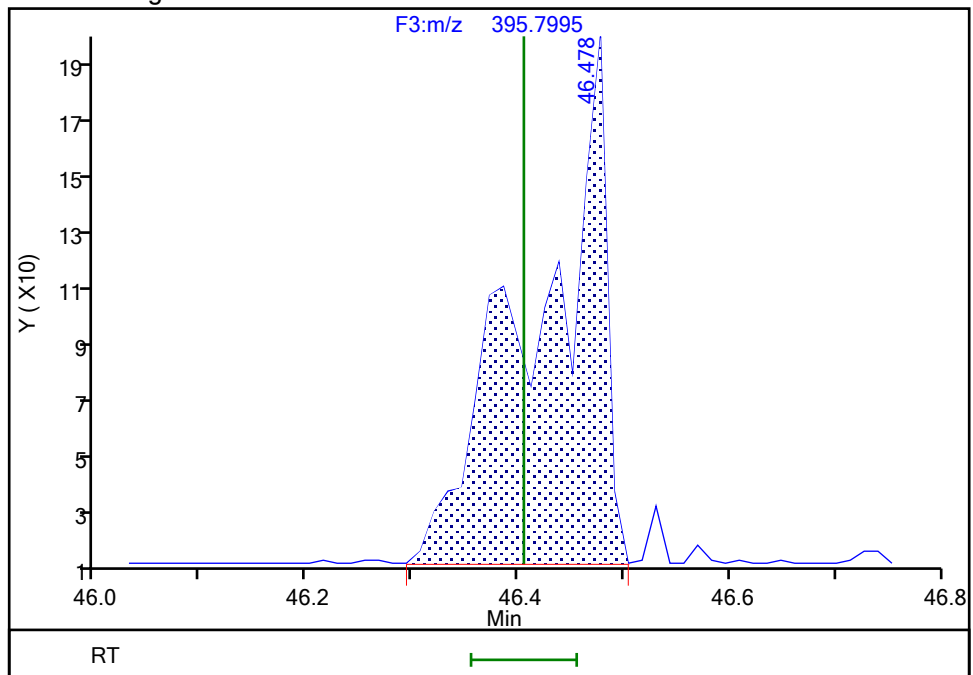
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Area: 192
Amount: 0.021785
Amount Units: pg/ul

Processing Integration Results



RT: 46.48
Area: 797
Amount: 0.047503
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 23:43:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

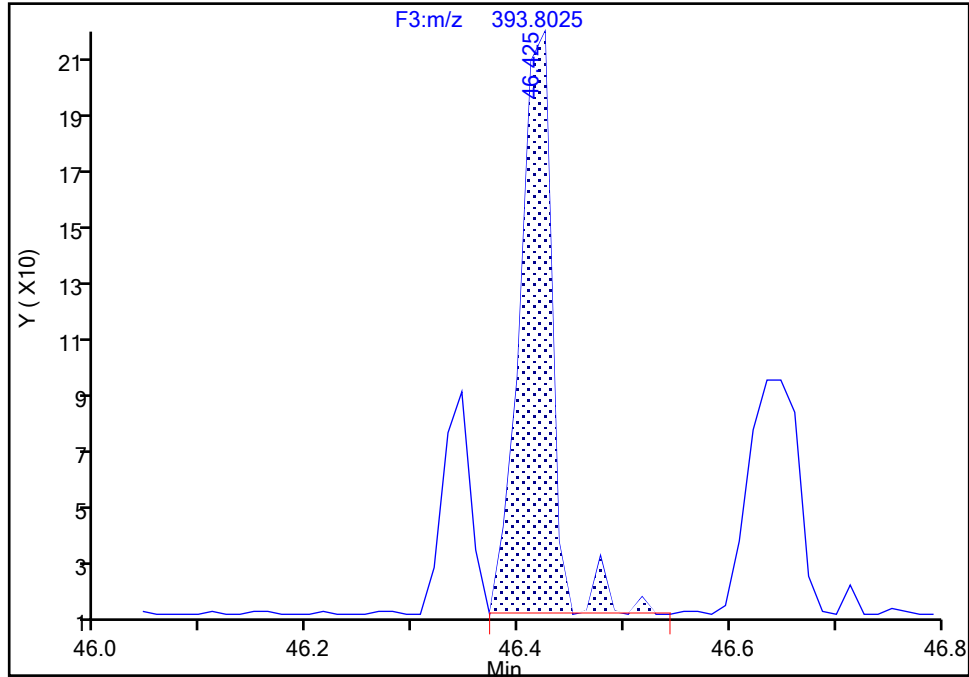
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Lims ID: 140-37232-A-5-D Lab Sample ID: 140-37232-5
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

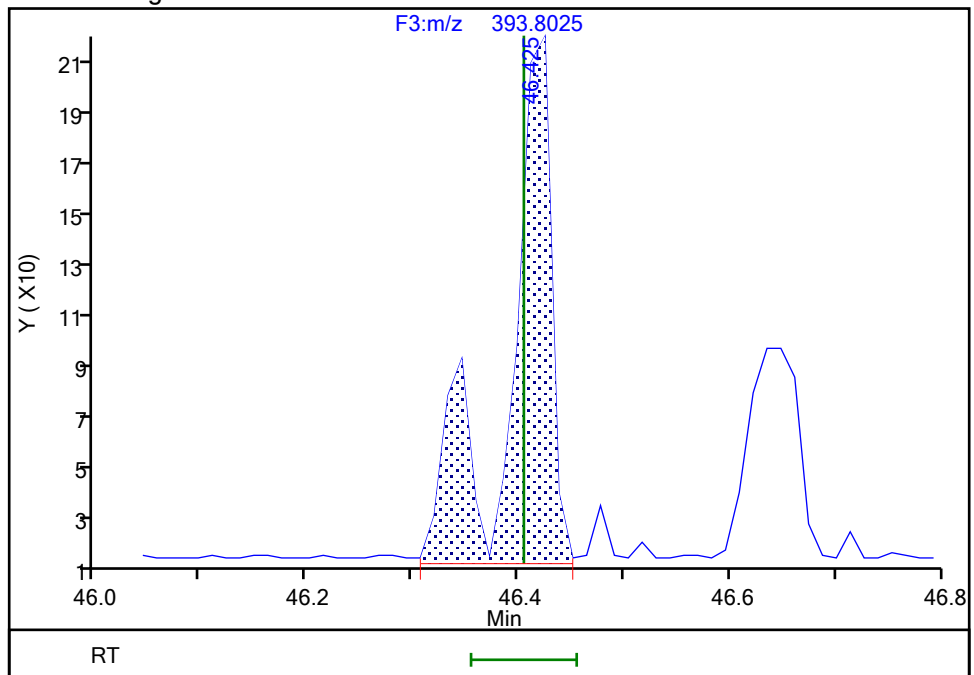
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Area: 434
Amount: 0.021785
Amount Units: pg/ul

Processing Integration Results



RT: 46.42
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Amount: 0.047503
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 23:44:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1373 of 3050

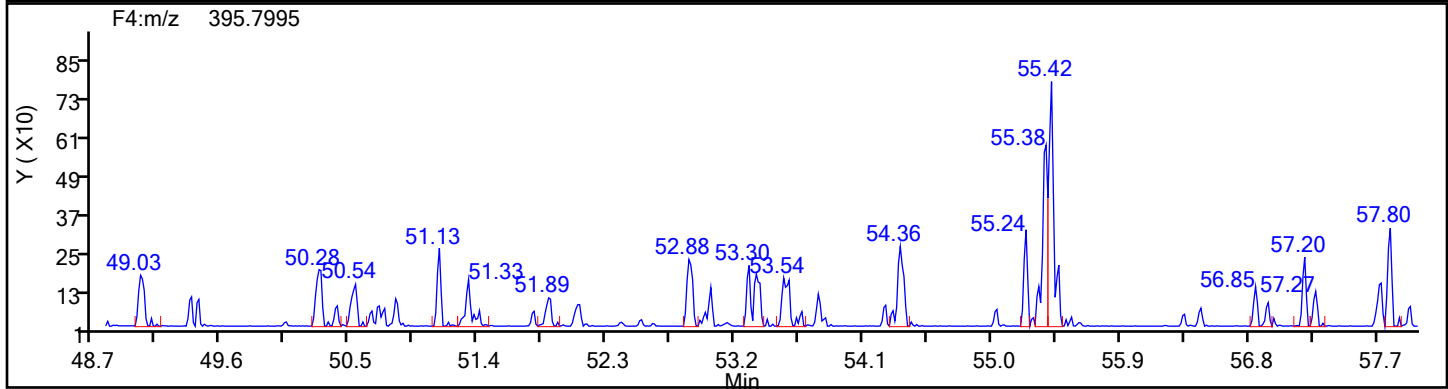
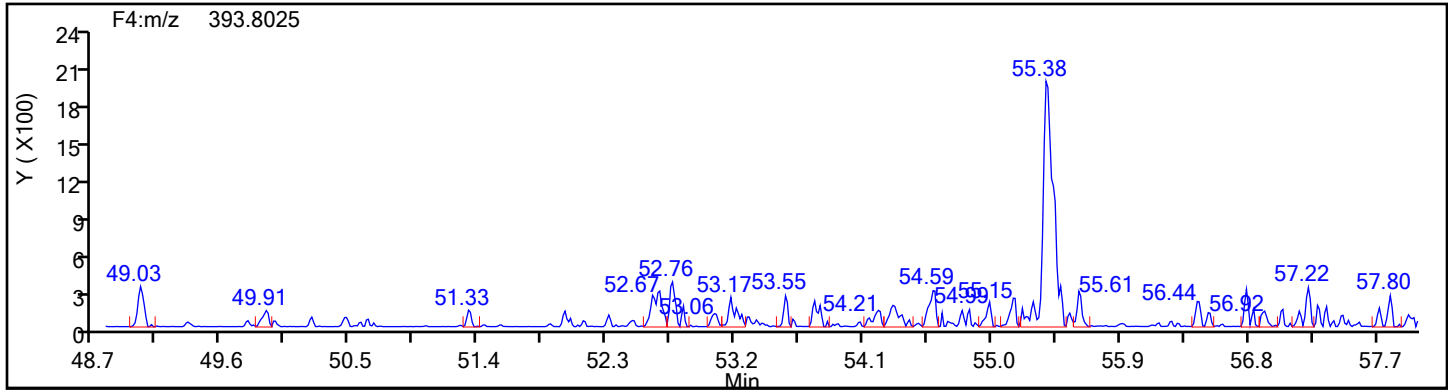
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9/6/2024

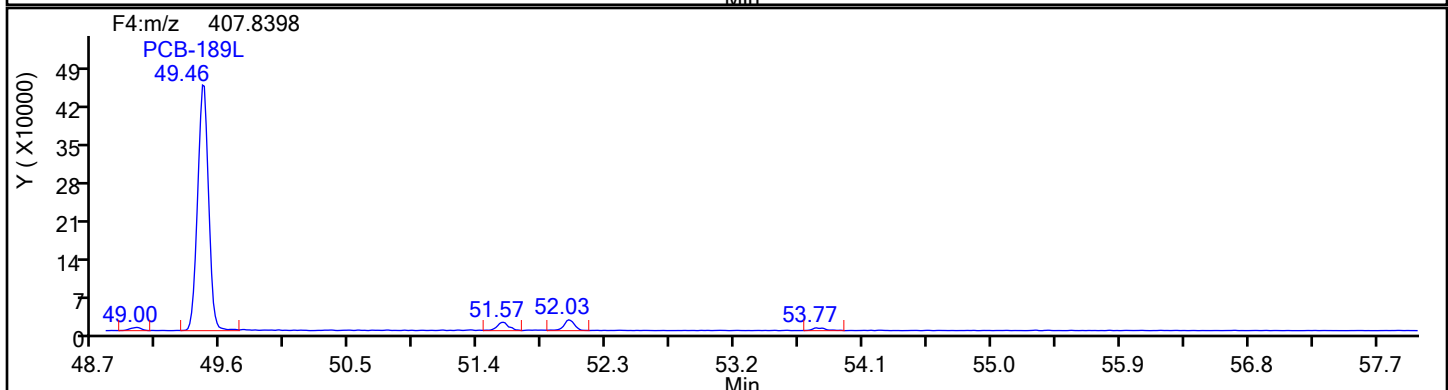
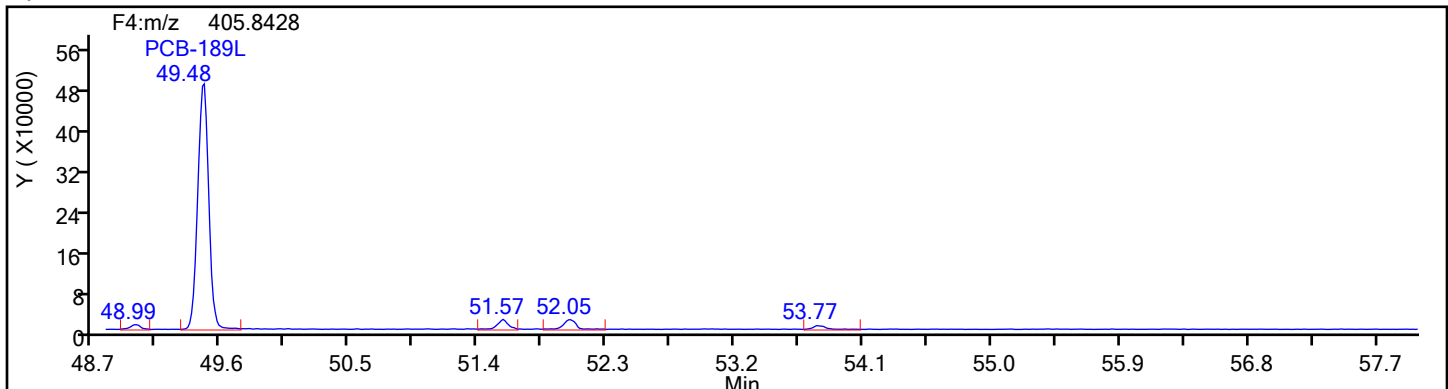
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

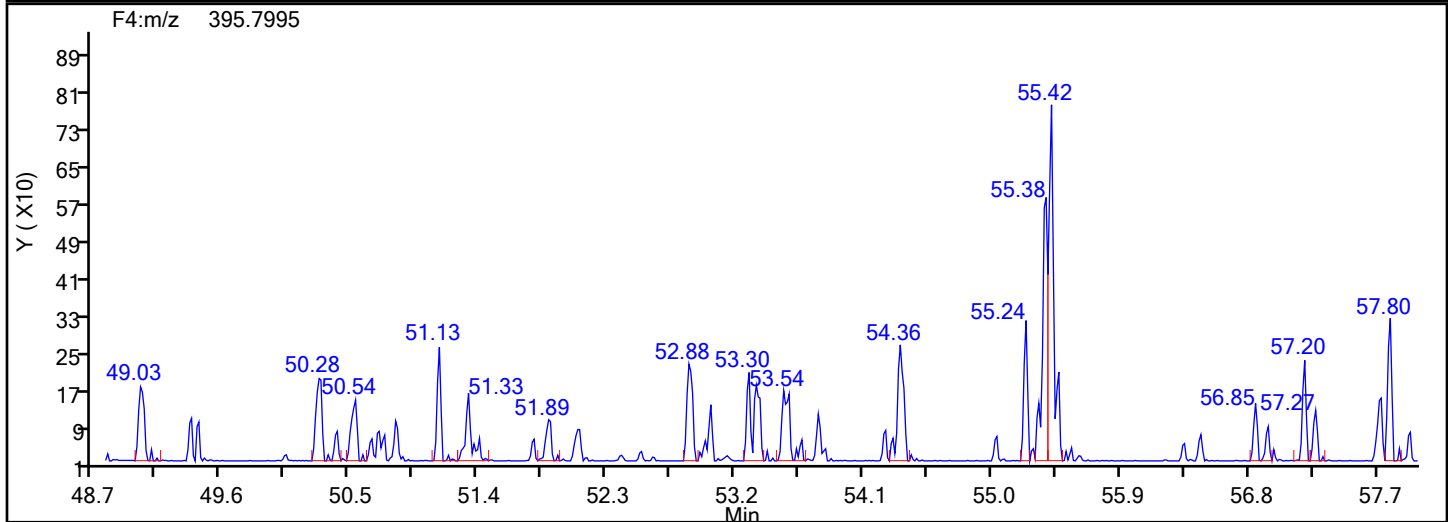
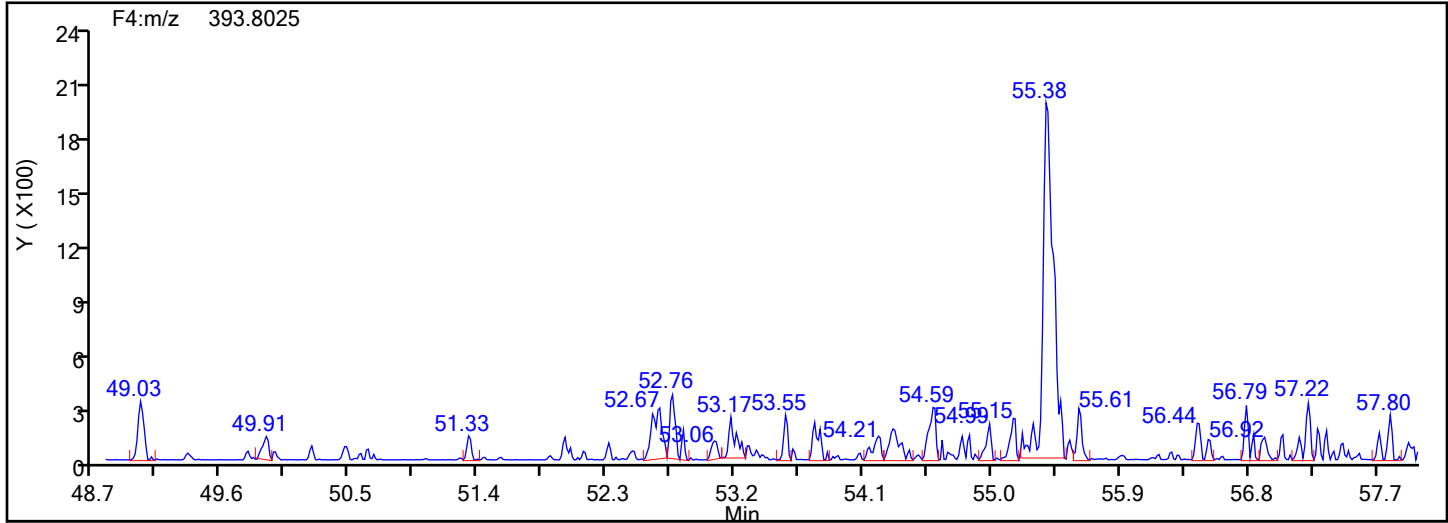


HpPCB F4 Standards

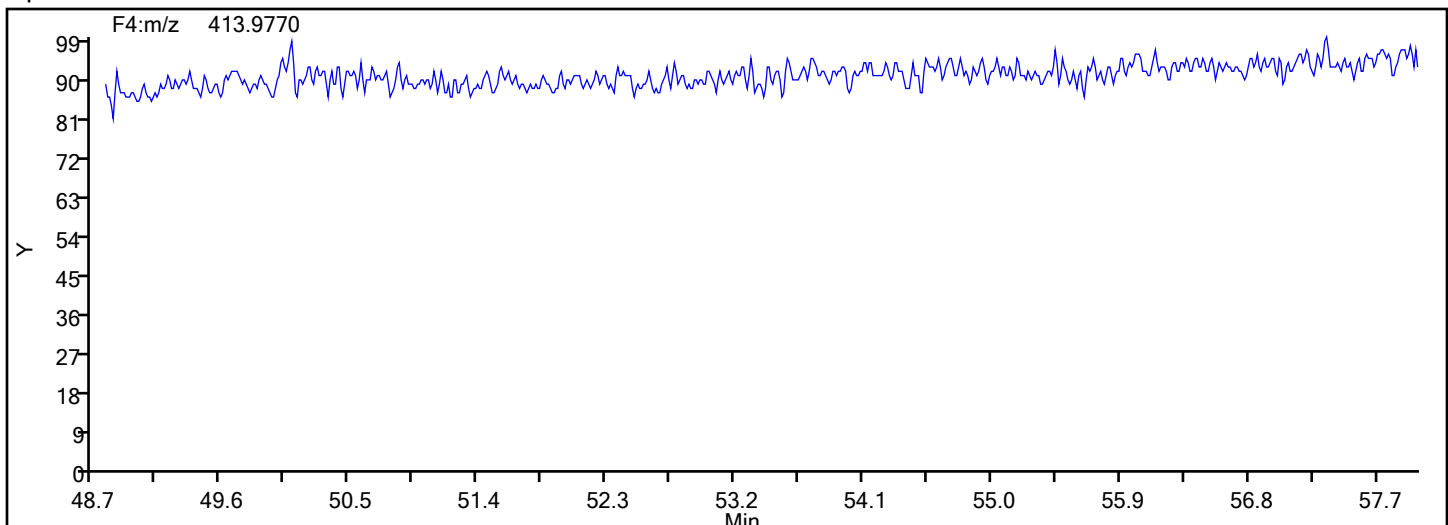


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

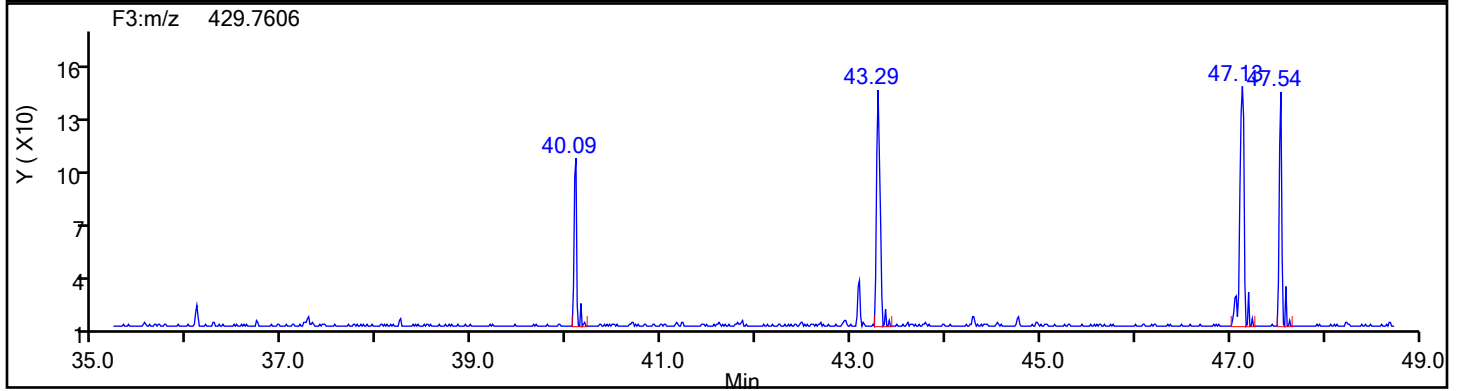
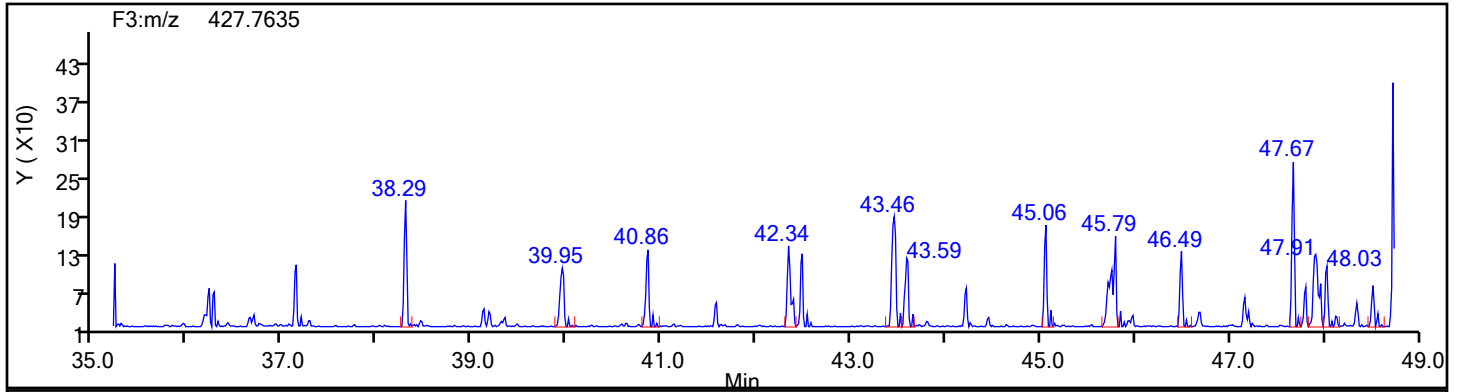


HpPCB F4 Lock Mass

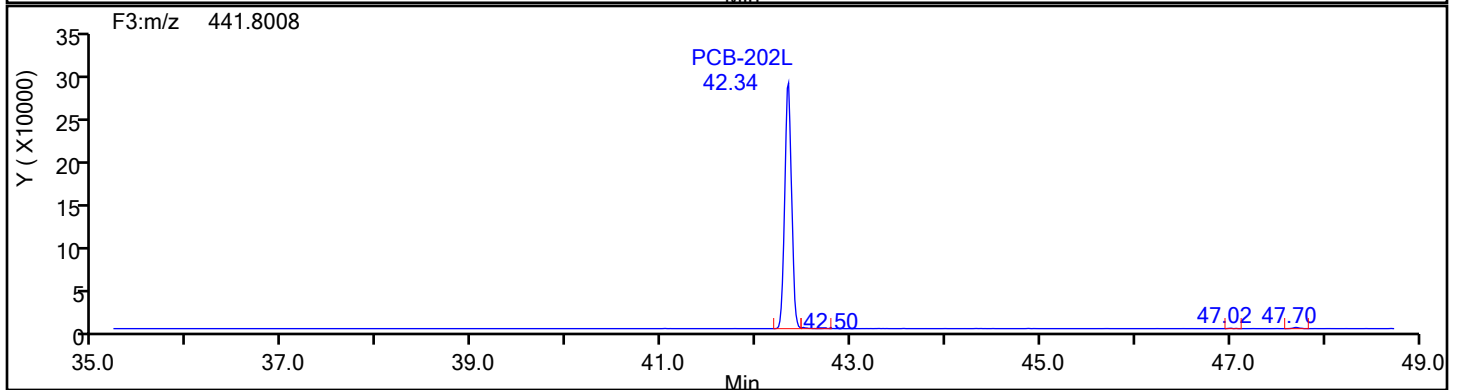
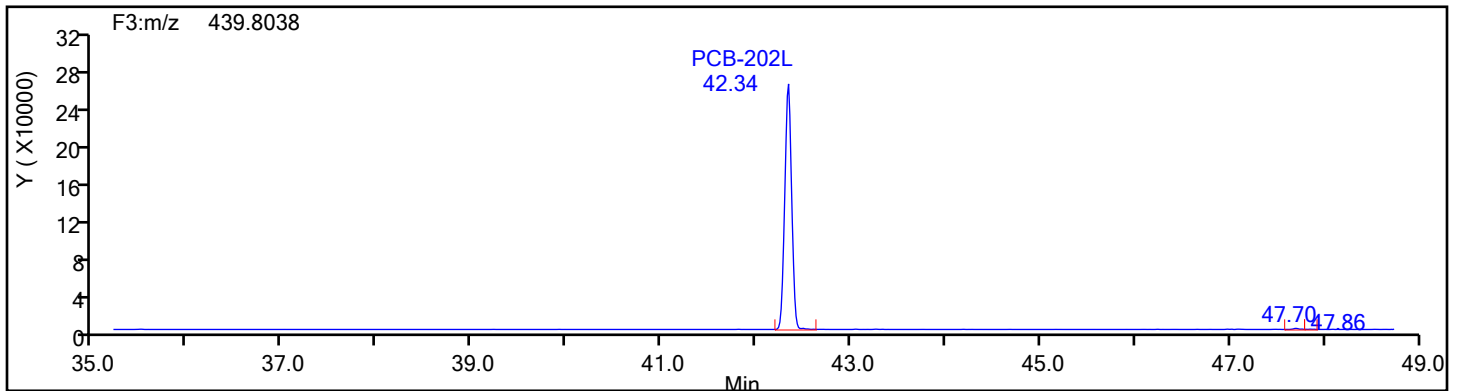


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

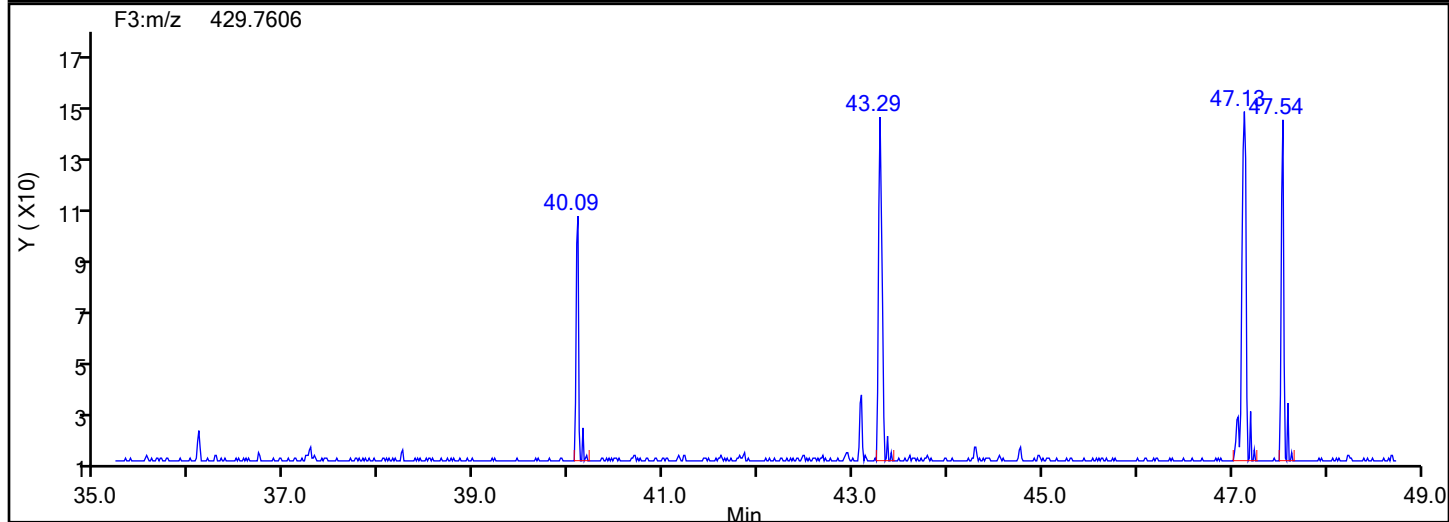
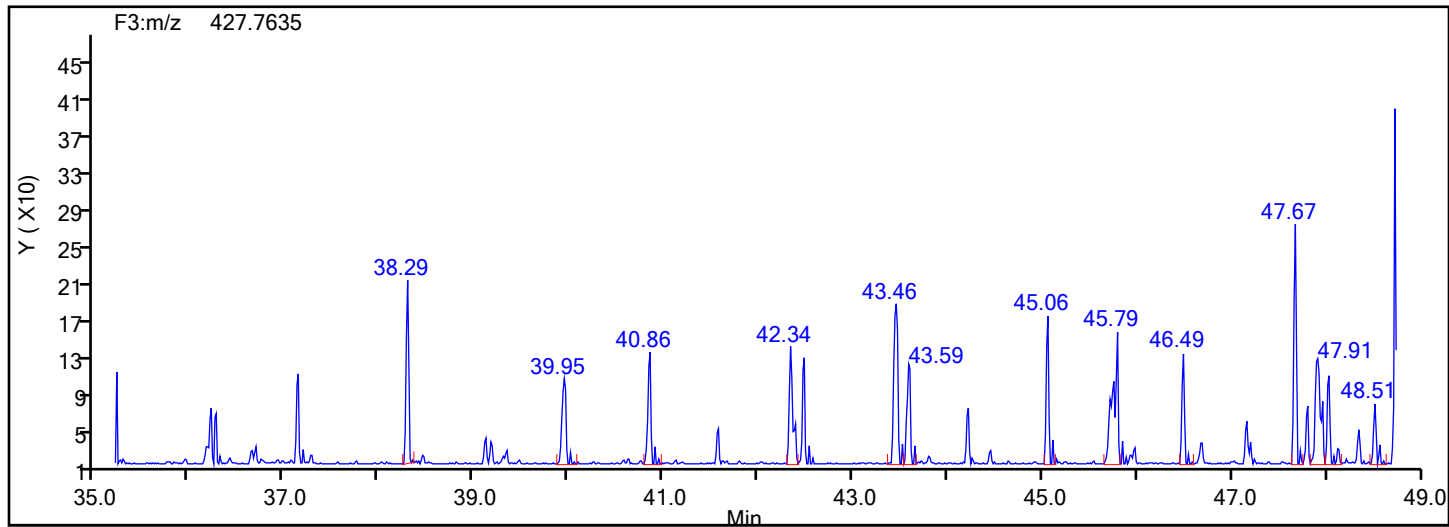


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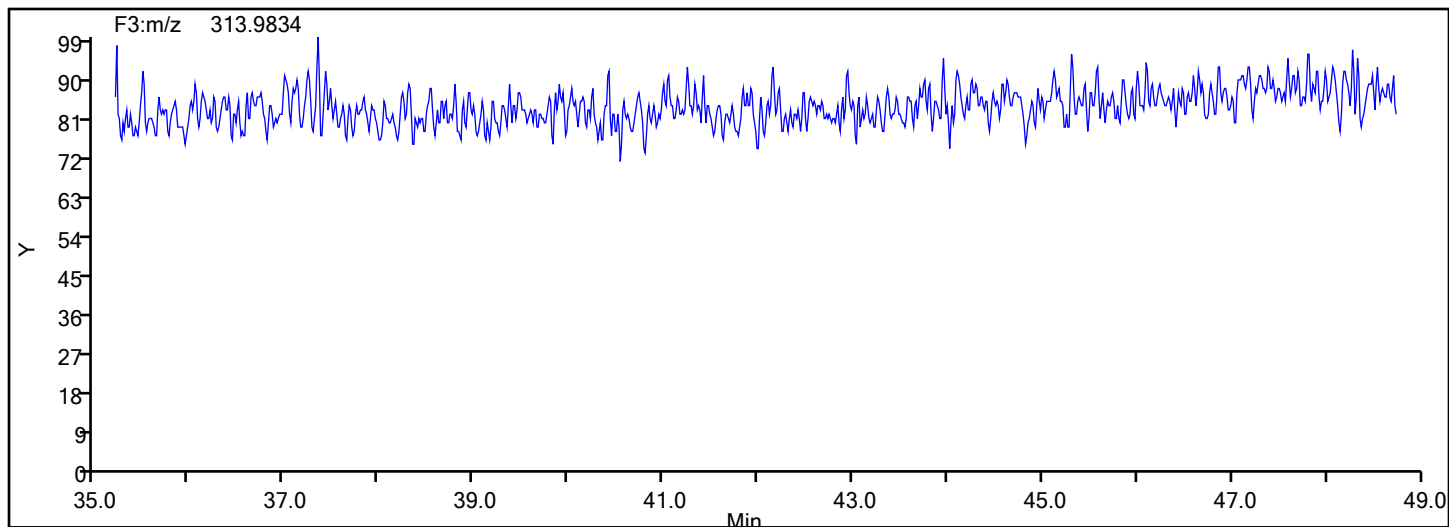


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

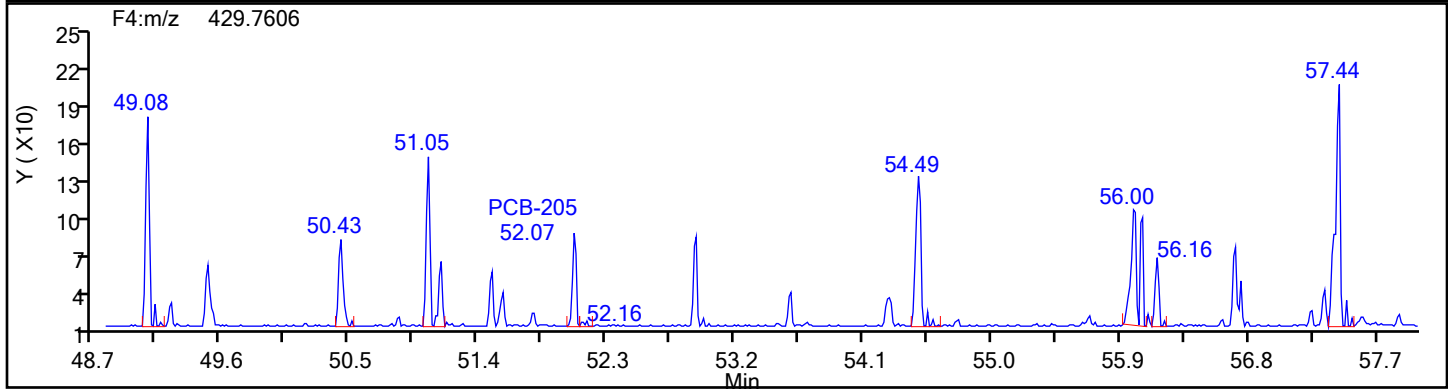
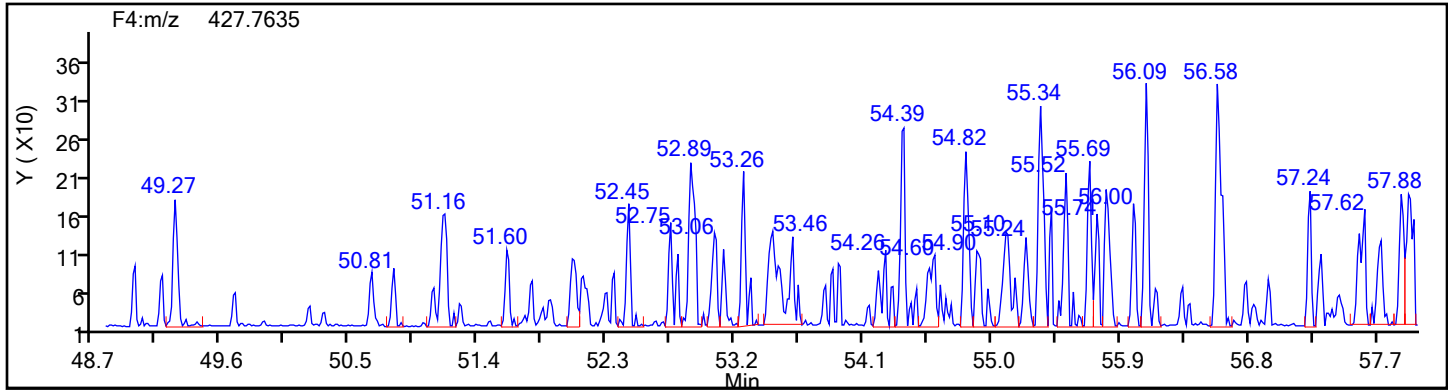


OcPCB F3 Lock Mass

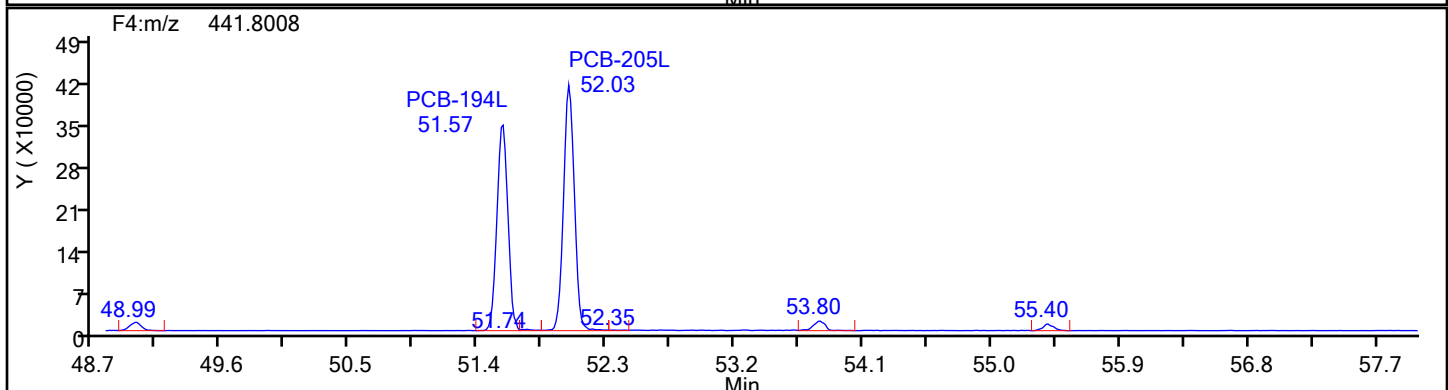
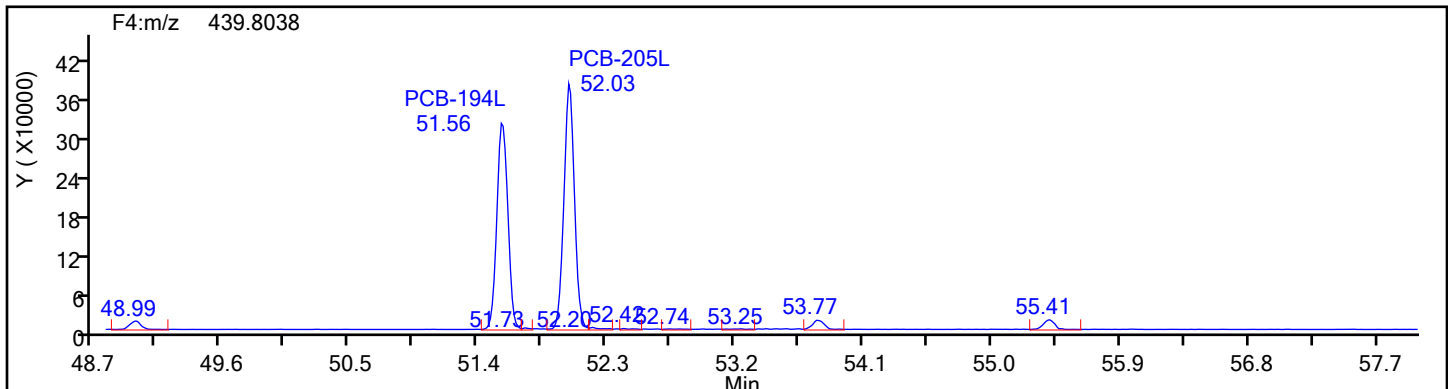


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

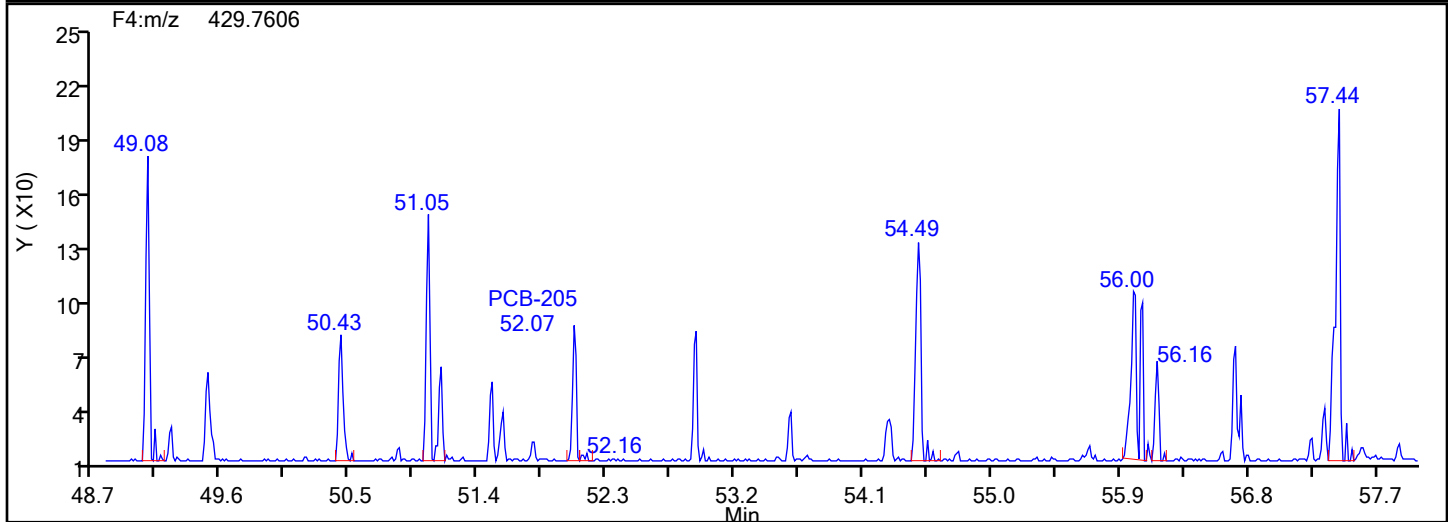
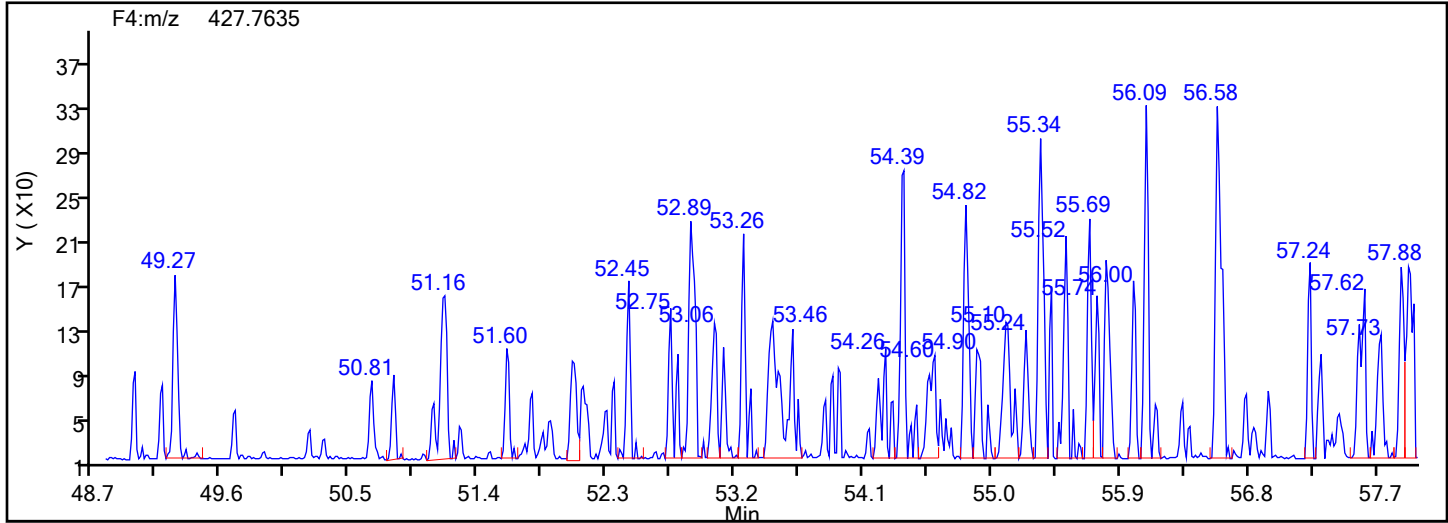


OcPCB F4 Standards

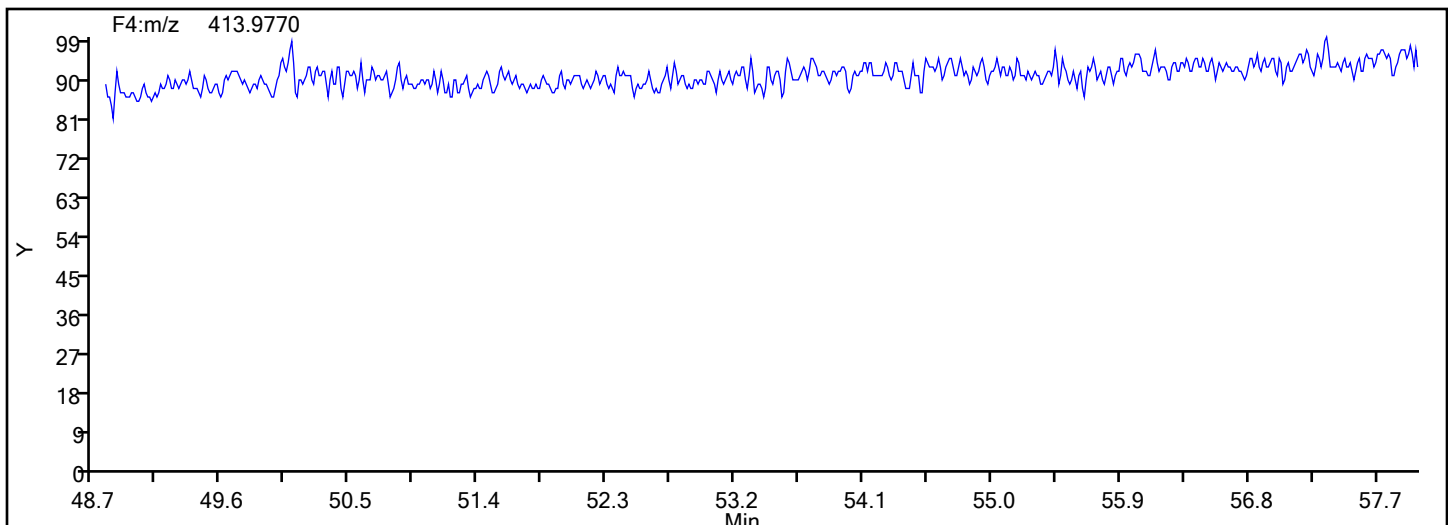


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
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OcPCB F4

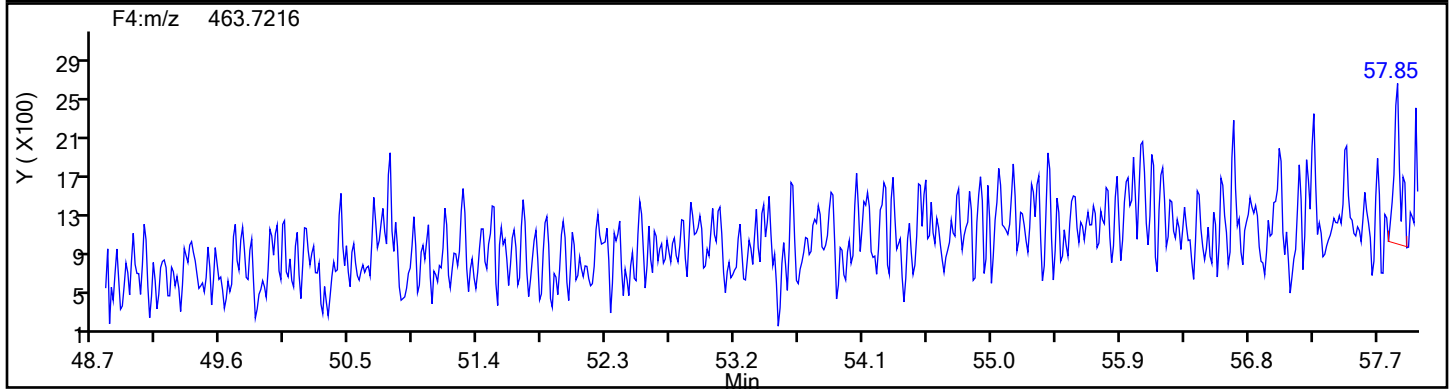
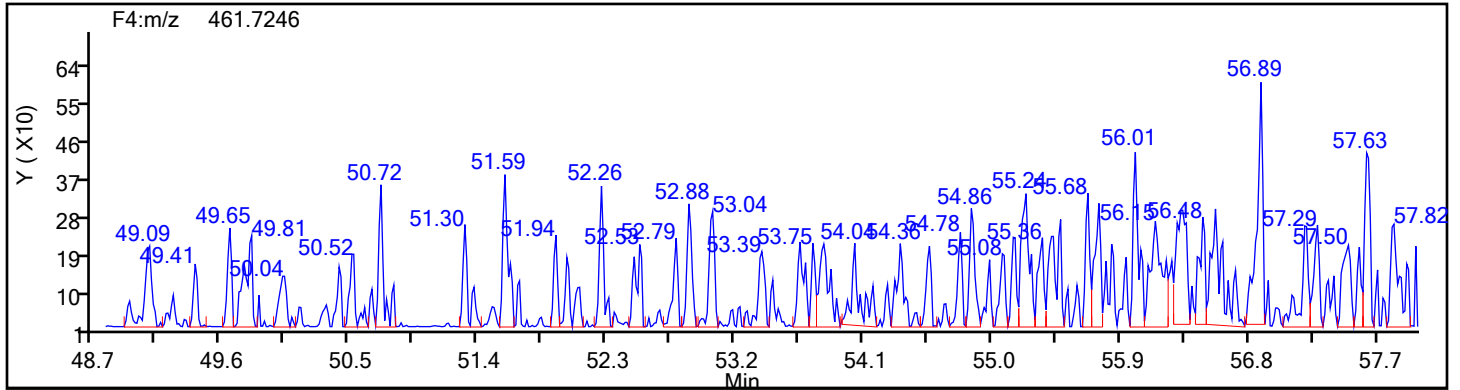


OcPCB F4 Lock Mass

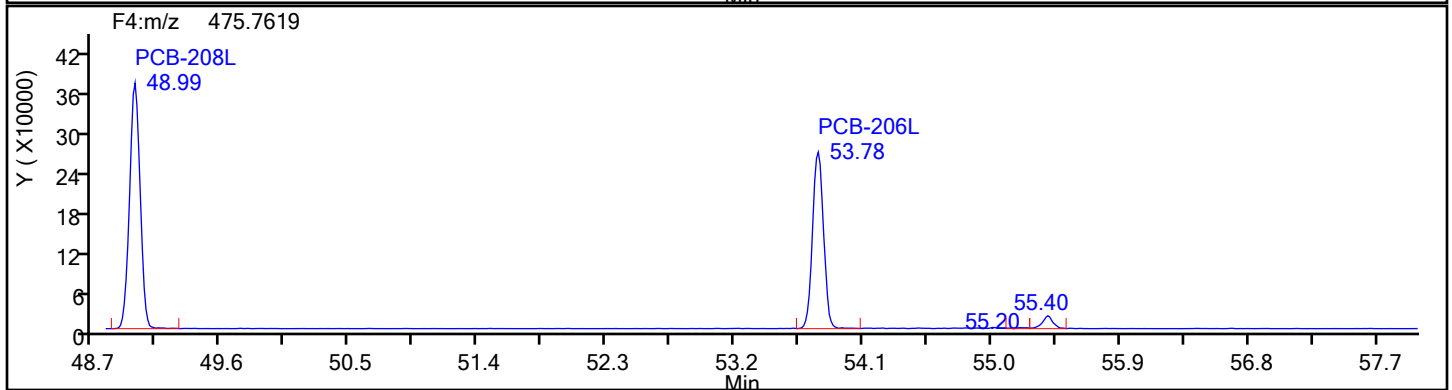
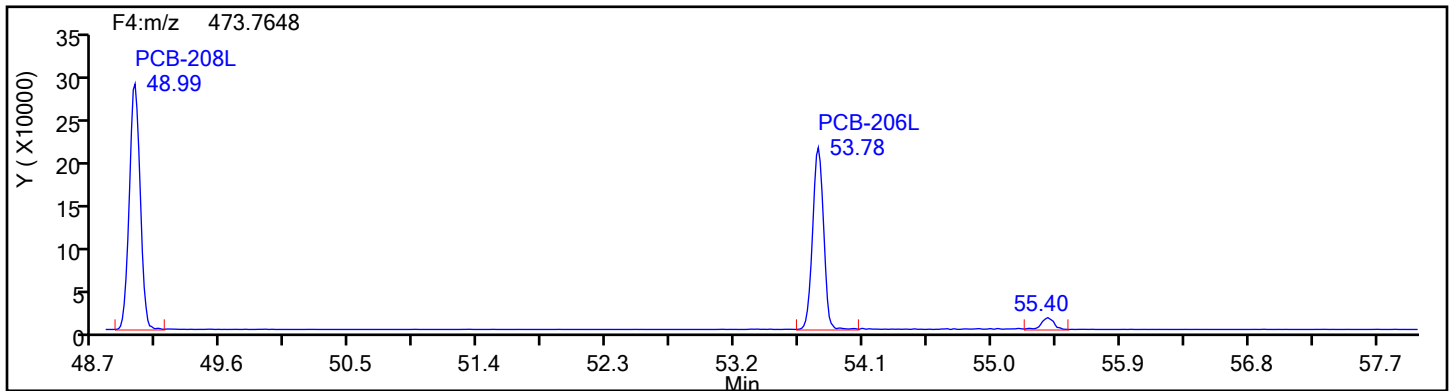


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

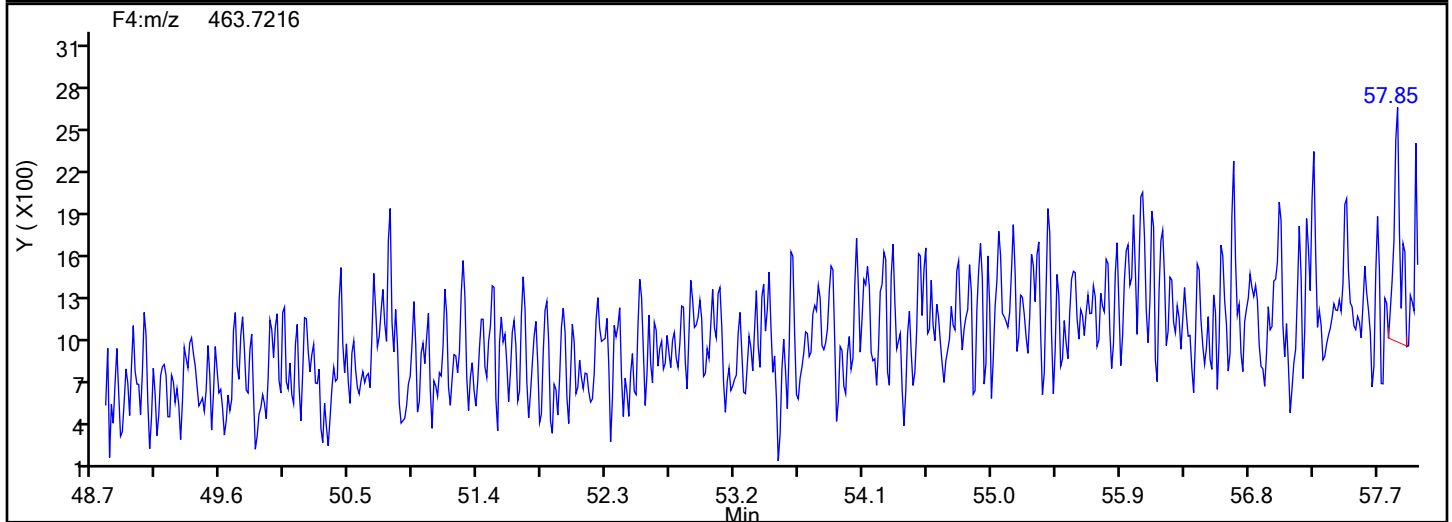
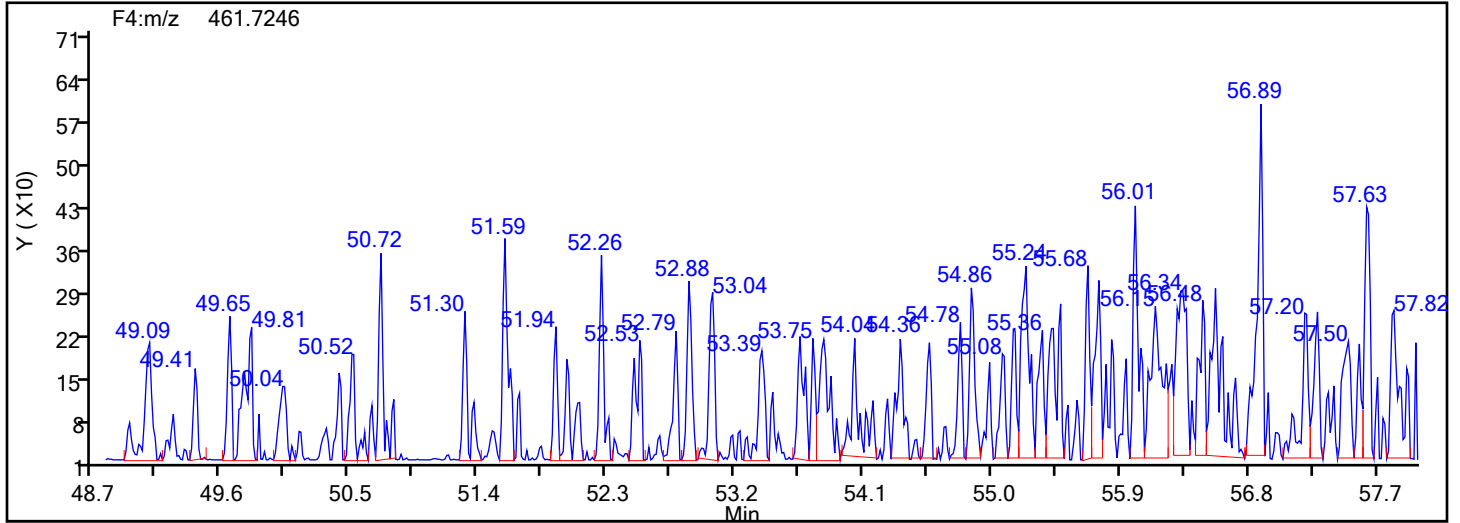


NoPCB F4 Standards

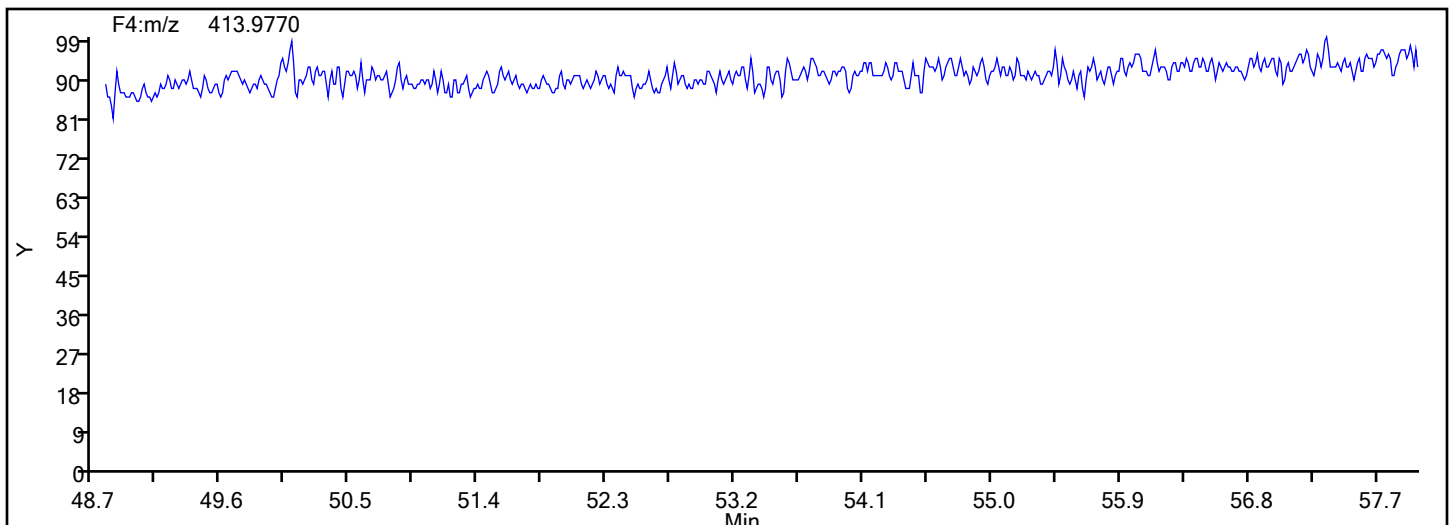


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
Injection Date: 16-Jul-2024 07:01:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

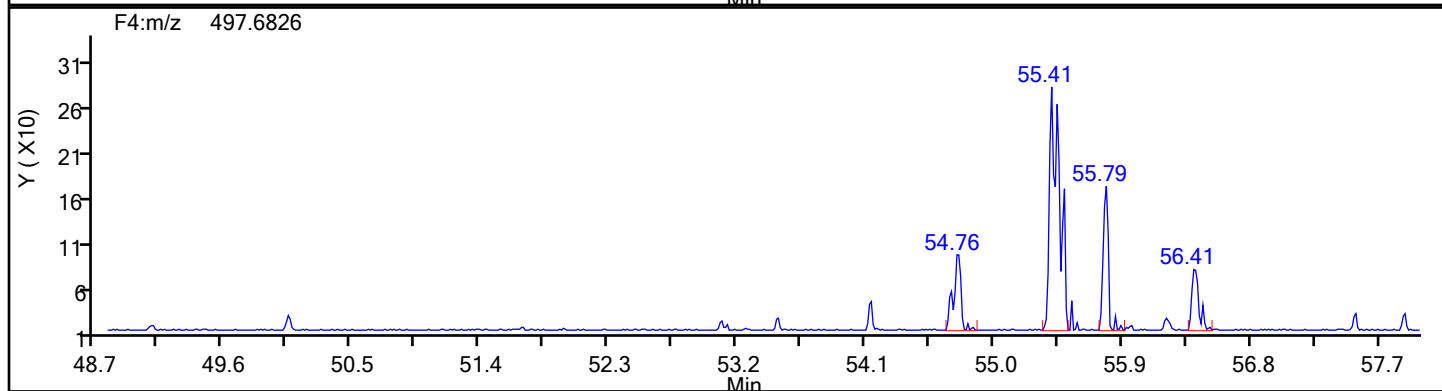
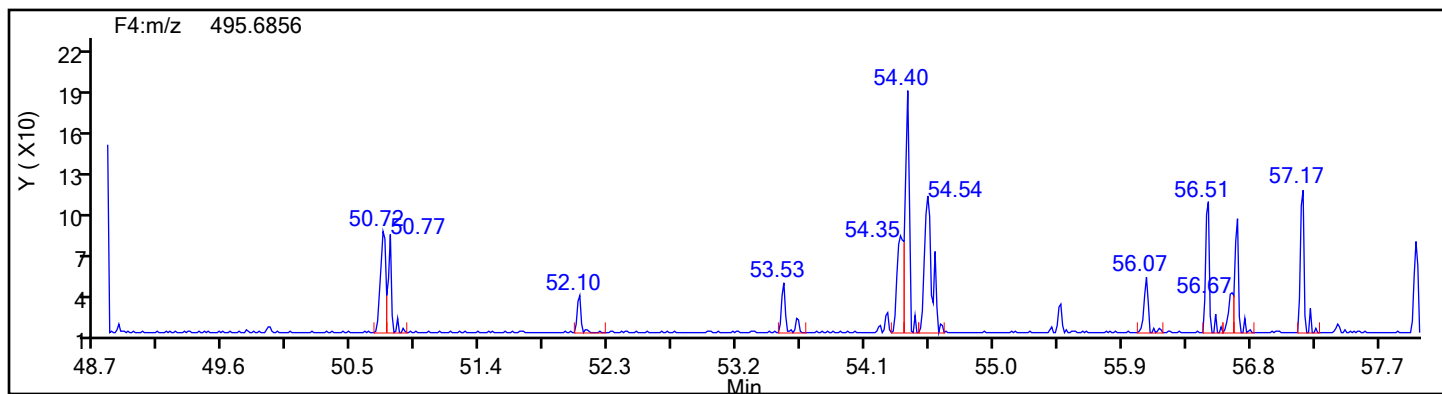


NoPCB F4 Lock Mass

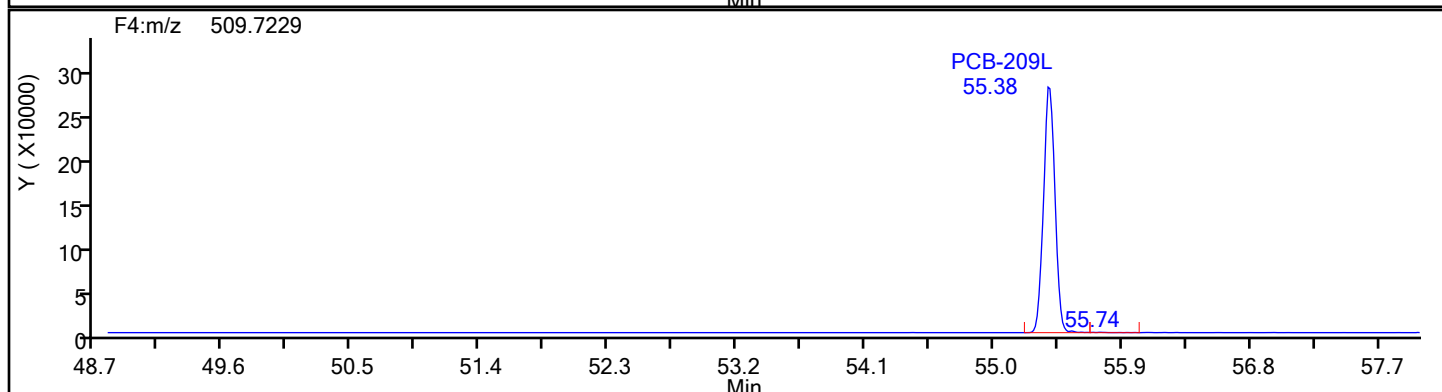
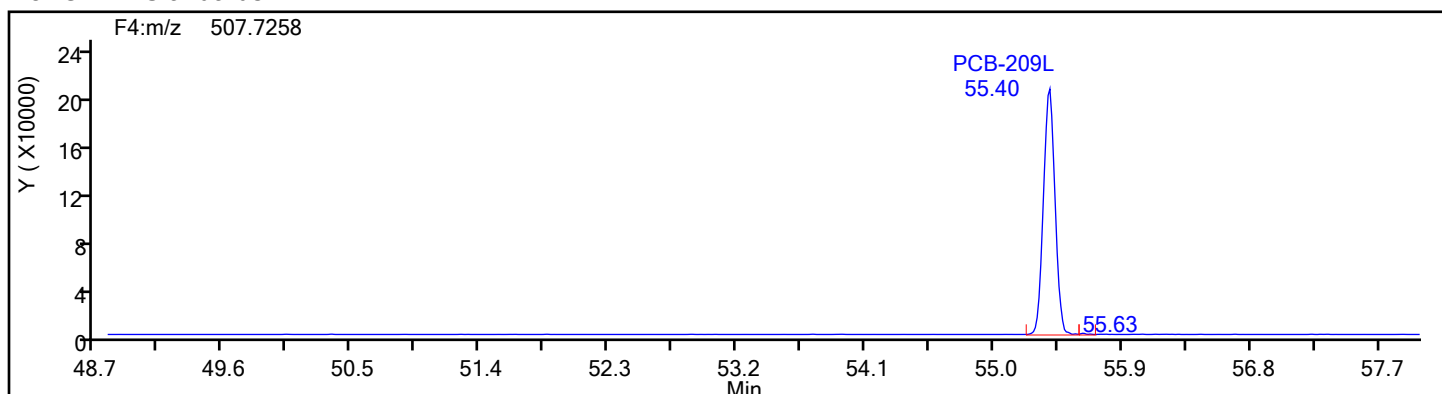


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
Injection Date: 16-Jul-2024 07:01:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

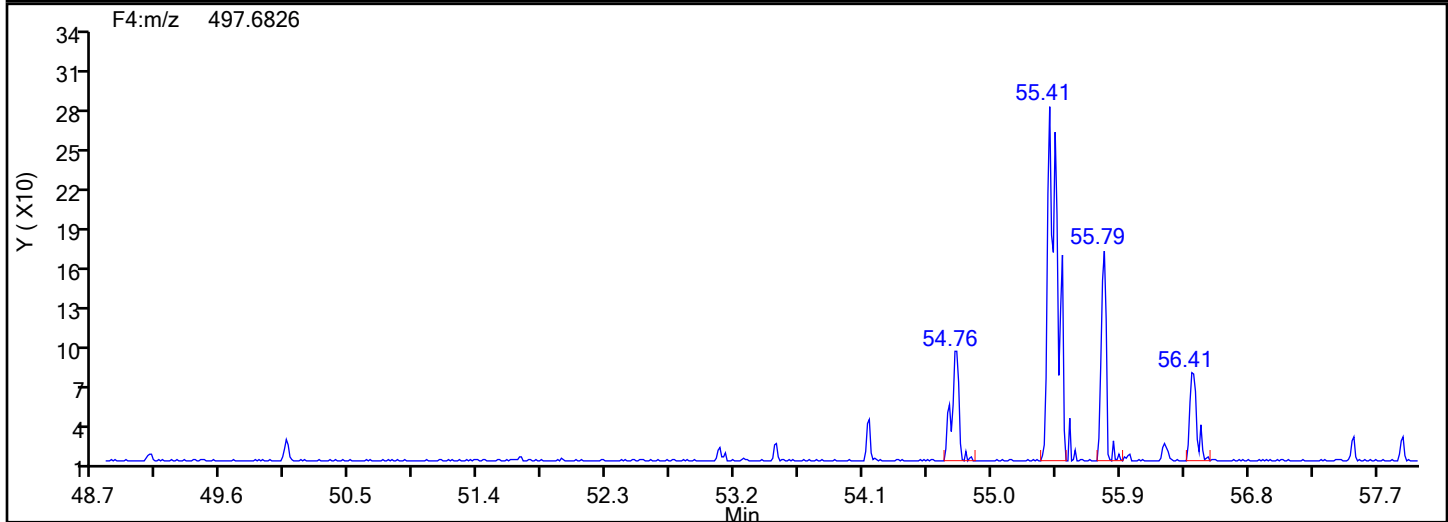
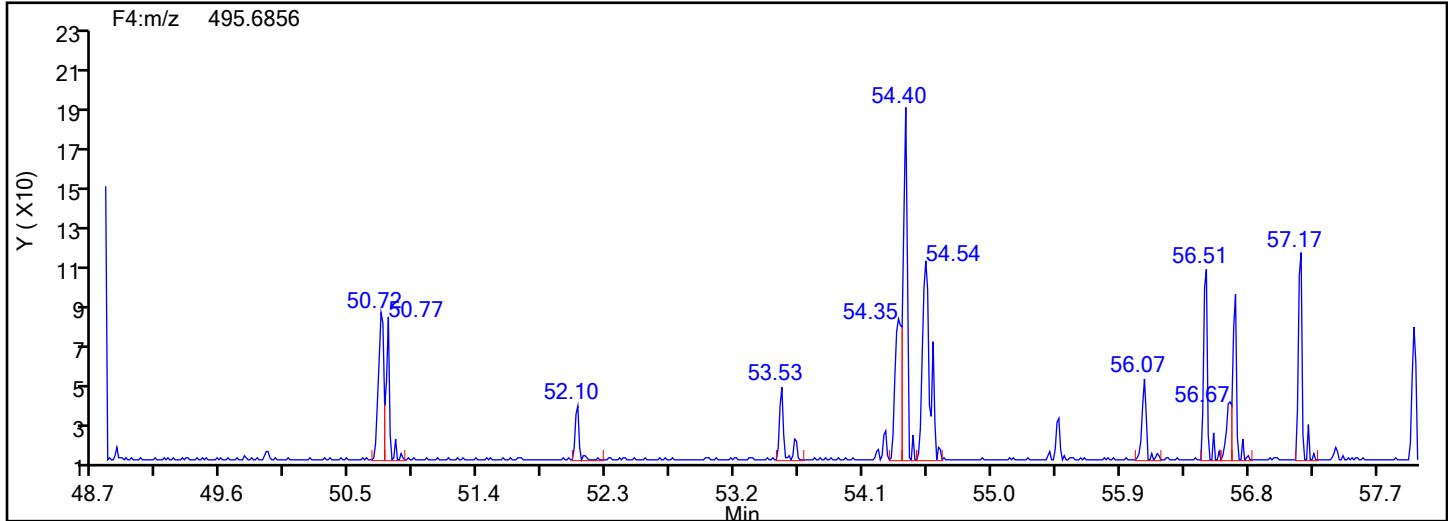


DePCB F4 Standards

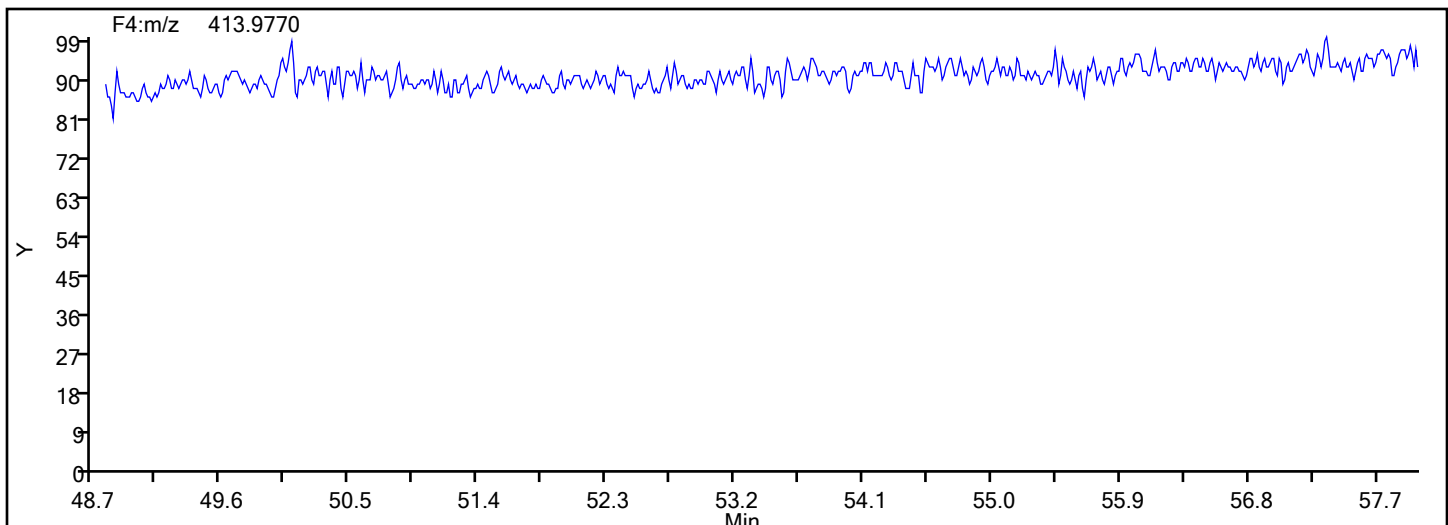


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
Injection Date: 16-Jul-2024 07:01:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Worklist#: 88780 Sample Line#: 10
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-5-d.d
Lims ID: 140-37232-A-5-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 07:01:00 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-010
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 23:58:17 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 23:58:17

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	48.4	96.78
PCB-28L	100.0	73.9	73.87
PCB-79L	50.0	56.3	112.51
PCB-95L	50.0	53.5	107.02
PCB-111L	100.0	81.5	81.49
PCB-153L	50.0	47.3	94.66
PCB-178L	100.0	78.5	78.48

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 6 - COMBINED</u>	Lab Sample ID: <u>140-37232-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-6-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 18:05</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 08:02</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.254	J	0.600	0.132	0.0137
37680-65-2	PCB-18	0.268	J C	0.600	0.285	0.00766
7012-37-5	PCB-28	0.731	B C20	0.600	0.252	0.0116
41464-39-5	PCB-44	1.81	C B	0.900	0.390	0.0127
35693-99-3	PCB-52	0.523		0.300	0.132	0.0135
32598-10-0	PCB-66	0.366		0.300	0.120	0.00984
32598-13-3	PCB-77	0.0649	J q	0.300	0.126	0.0110
70362-50-4	PCB-81	ND		0.300	0.0960	0.0120
37680-73-2	PCB-101	0.113	J C90 q	0.900	0.390	0.00426
32598-14-4	PCB-105	0.0427	J	0.300	0.102	0.0102
74472-37-0	PCB-114	ND		0.300	0.165	0.0105
31508-00-6	PCB-118	0.0909	J	0.300	0.183	0.0102
65510-44-3	PCB-123	ND		0.300	0.171	0.0112
57465-28-8	PCB-126	ND		0.300	0.123	0.0119
38380-07-3	PCB-128	0.00536	J C B q	0.600	0.204	0.00258
35065-28-2	PCB-138	0.0532	J C129 q	1.20	0.510	0.00268
35065-27-1	PCB-153	0.0504	J C B q	0.600	0.249	0.00232
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00269
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00269
52663-72-6	PCB-167	ND		0.300	0.180	0.00191
32774-16-6	PCB-169	ND		0.300	0.123	0.00197
35065-30-6	PCB-170	0.0197	J q	0.300	0.132	0.000665
35065-29-3	PCB-180	0.0149	J C q	0.600	0.204	0.000505
52663-68-0	PCB-187	0.00826	J q	0.300	0.126	0.000535
39635-31-9	PCB-189	ND		0.300	0.147	0.00434
52663-78-2	PCB-195	ND		0.300	0.159	0.00231
40186-72-9	PCB-206	ND		0.300	0.171	0.0314

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Lab Sample ID: 140-37232-6
Matrix: Air	Lab File ID: 140-37232-a-6-d.d
Analysis Method: 23	Date Collected: 06/13/2024 18:05
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 08:02
Con. Extract Vol.: 30(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25(mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	0.0102	J q	0.300	0.138	0.00234

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 6 - COMBINED</u>	Lab Sample ID: <u>140-37232-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-6-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/13/2024 18:05</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 08:02</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	56		20-145
208263-77-8	PCB-3L	64		20-145
234432-86-1	PCB-4L	64		20-145
208263-67-6	PCB-15L	75		20-145
234432-87-2	PCB-19L	71		20-145
208263-79-0	PCB-37L	70		20-145
234432-88-3	PCB-54L	90		20-145
105600-23-5	PCB-77L	78		20-145
208461-24-9	PCB-81L	77		20-145
234432-89-4	PCB-104L	89		20-145
208263-62-1	PCB-105L	95		20-145
208263-63-2	PCB-114L	97		20-145
104130-40-7	PCB-118L	88		20-145
208263-64-3	PCB-123L	88		20-145
208263-65-4	PCB-126L	92		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	96	C	20-145
235416-30-5	PCB-157L	96	C156	20-145
208263-69-8	PCB-167L	88		20-145
208263-70-1	PCB-169L	88		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	97		20-145
208263-73-4	PCB-189L	93		20-145
105600-26-8	PCB-202L	90		20-145
234446-64-1	PCB-205L	95		20-145
208263-75-6	PCB-206L	98		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	109		20-145

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Lab Sample ID: 140-37232-6
Matrix: Air	Lab File ID: 140-37232-a-6-d.d
Analysis Method: 23	Date Collected: 06/13/2024 18:05
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1(Sample)	Date Analyzed: 07/16/2024 08:02
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1(uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		20-130
235416-29-2	PCB-111L	80		20-130
232919-67-4	PCB-178L	82		20-130
STL01600	PCB-8L	101		70-130
STL01603	PCB-79L	115		70-130
STL01604	PCB-95L	115		70-130
STL01606	PCB-153L	100		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-6-d.d
Lims ID: 140-37232-A-6-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 08:02:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:00:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:00:42

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					4.692	4.692	0.0388	0.0388		
D PCB-1L	11:38	6011822	3.19	1.6108	55.6	55.6	0.4447	0.4447	55.60	
D PCB-3L	13:46	6813621	3.32	1.5891	63.9	63.9	0.4508	0.4508	63.87	
PCB-1	11:39	80438	2.68	1.2191	1.098	1.098	0.0383	0.0383		
PCB-2	13:36	154144	3.14	1.1805	2.036	2.036	0.0396	0.0396		
PCB-3	13:47	129598	3.33	1.2206	1.558	1.558	0.0384	0.0384		
S Total Dichlorobiphenyls					12.8	12.8	0.0525	0.0525		
D PCB-4L	14:01	2778065	1.57	0.6475	63.9	63.9	0.1952	0.1952	63.91	
* PCB-9L	16:00	6713055	1.58		100.0	100.0				
\$ PCB-8L	16:52	2501143	1.62	1.2066	50.7	50.7	0.1807	0.1807	101	a
D PCB-15L	20:05	5405085	1.60	1.0789	74.6	74.6	0.1172	0.1172	74.63	
PCB-4	14:02	12315	1.55	1.2818	0.3458	0.3458	0.0593	0.0593		M
PCB-10	14:13						0.0550	0.0550		
PCB-9	15:59						0.0509	0.0509		
PCB-7	16:11	17880	1.72	1.4134	0.3092	0.3092	0.0512	0.0512		
PCB-6	16:28	20583	1.79	1.5421	0.3262	0.3262	0.0469	0.0469		a
PCB-5	16:43						0.0540	0.0540		
PCB-8	16:53	55096	1.77	1.5889	0.8475	0.8475	0.0455	0.0455		a
PCB-14	18:26						0.0516	0.0516		
PCB-11	19:30	536489	1.65	1.2951	10.1	10.1	0.0559	0.0559		
PCB-12	19:43	19861	1.43	1.3358	0.3634	0.3634	0.0542	0.0542		a
PCB-13 (C12)	19:43	19861	1.43	1.3358	0.3634	0.3634	0.0542	0.0542		a
PCB-15	20:05	36742	1.44	1.2903	0.5268	0.5268	0.0535	0.0535		
S Total Trichlorobiphenyls					12.4	12.1	0.0365	0.0365		RQ
D PCB-19L	17:12	1938971	1.05	0.6285	70.5	70.5	0.4137	0.4137	70.52	
* PCB-32L	20:31	4374500	1.07		100.0	100.0				a
* PCB-31L	22:41	11948792	1.04		100.0	100.0				
\$ PCB-28L	22:58	9065239	1.07	1.0494	72.3	72.3	0.1105	0.1105	72.30	
D PCB-37L	26:55	7285250	1.06	0.8749	69.7	69.7	0.1325	0.1325	69.69	
PCB-19	17:12	3465	0.98	1.2809	0.1395	0.1395	0.0352	0.0352		
PCB-18	19:13	30525	1.04	1.7652	0.8918	0.8918	0.0255	0.0255		M
PCB-30 (C18)	19:13	30525	1.04	1.7652	0.8918	0.8918	0.0255	0.0255		M
PCB-17	19:35	18644	1.05	1.2430	0.7736	0.7736	0.0363	0.0363		a
PCB-27	19:48	3018	1.04	1.8327	0.1496	0.0849	0.0246	0.0246		RQMa

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.0269	0.0269		RQMU
PCB-16	20:02	11331	1.04	1.1286	0.6917	0.5178	0.0399	0.0399		RQa
PCB-32	20:31	16503	1.04	1.8324	0.5025	0.4645	0.0246	0.0246		RQ
PCB-34	21:36						0.0401	0.0401		
PCB-23	21:45						0.0419	0.0419		
PCB-26	22:11	40271	0.94	1.1255	0.4912	0.4912	0.0402	0.0402		
PCB-29 (C26)	22:11	40271	0.94	1.1255	0.4912	0.4912	0.0402	0.0402		
PCB-25	22:22	16953	1.04	1.2728	0.2167	0.1828	0.0356	0.0356		RQ
PCB-31	22:42	200419	1.07	1.1532	2.385	2.385	0.0392	0.0392		a
PCB-20	22:59	207912	0.95	1.1718	2.435	2.435	0.0386	0.0386		
PCB-28 (C20)	22:59	207912	0.95	1.1718	2.435	2.435	0.0386	0.0386		
PCB-21	23:14	139909	0.95	1.0746	1.787	1.787	0.0421	0.0421		a
PCB-33 (C21)	23:14	139909	0.95	1.0746	1.787	1.787	0.0421	0.0421		a
PCB-22	23:37	82897	0.98	1.1932	0.9536	0.9536	0.0379	0.0379		M
PCB-36	25:05						0.0409	0.0409		
PCB-39	25:27						0.0391	0.0391		
PCB-38	26:01						0.0417	0.0417		
PCB-35	26:33	15060	0.88	1.1297	0.1830	0.1830	0.0401	0.0401		M
PCB-37	26:57	70242	0.96	1.1435	0.8432	0.8432	0.0396	0.0396		M
S Total Tetrachlorobiphenyls					19.2	18.8	0.0376	0.0376		RQ
D PCB-54L	20:22	2188852	0.81	0.5562	90.0	90.0	0.0776	0.0776	89.96	
* PCB-52L	24:46	5689719	0.80		100.0	100.0				
\$ PCB-79L	32:38	3273358	0.81	1.0018	57.6	57.6	0.6426	0.6426	115	
D PCB-81L	33:37	5458160	0.81	1.2470	76.9	76.9	0.4306	0.4306	76.93	
D PCB-77L	34:11	5878343	0.83	1.3212	78.2	78.2	0.4064	0.4064	78.20	
PCB-54	20:24	614	0.77	1.2733	0.0245	0.0220	0.005641	0.005641		RQa
PCB-50	22:27	15005	0.77	0.8578	0.3556	0.3086	0.0481	0.0481		RQa
PCB-53 (C50)	22:27	15005	0.77	0.8578	0.3556	0.3086	0.0481	0.0481		RQa
PCB-45	23:09	86753	0.86	0.8264	1.852	1.852	0.0500	0.0500		a
PCB-51 (C45)	23:09	86753	0.86	0.8264	1.852	1.852	0.0500	0.0500		a
PCB-46	23:24	4874	0.77	0.7101	0.1356	0.1211	0.0581	0.0581		RQa
PCB-52	24:46	90809	0.81	0.9194	1.742	1.742	0.0449	0.0449		a
PCB-43	24:52						0.0400	0.0400		
PCB-73 (C43)	24:52						0.0400	0.0400		
PCB-49	25:15	52536	0.73	1.0685	0.8674	0.8674	0.0386	0.0386		a
PCB-69 (C49)	25:15	52536	0.73	1.0685	0.8674	0.8674	0.0386	0.0386		a
PCB-48	25:32	19492	0.77	0.8399	0.4593	0.4094	0.0492	0.0492		RQa
PCB-44	25:48	332237	0.79	0.9731	6.023	6.023	0.0424	0.0424		a
PCB-47 (C44)	25:48	332237	0.79	0.9731	6.023	6.023	0.0424	0.0424		a
PCB-65 (C44)	25:48	332237	0.79	0.9731	6.023	6.023	0.0424	0.0424		a
PCB-59	26:06	8603	0.77	1.1853	0.1399	0.1281	0.0348	0.0348		RQa
PCB-62 (C59)	26:06	8603	0.77	1.1853	0.1399	0.1281	0.0348	0.0348		RQa
PCB-75 (C59)	26:06	8603	0.77	1.1853	0.1399	0.1281	0.0348	0.0348		RQa
PCB-42	26:18	21444	0.77	0.8097	0.5690	0.4673	0.0510	0.0510		RQa
PCB-40	26:48	55700	0.72	0.8863	1.109	1.109	0.0466	0.0466		M
PCB-41 (C40)	26:48	55700	0.72	0.8863	1.109	1.109	0.0466	0.0466		M
PCB-71 (C40)	26:48	55700	0.72	0.8863	1.109	1.109	0.0466	0.0466		M
PCB-64	27:00	43054	0.77	1.1776	0.7242	0.6450	0.0351	0.0351		RQa
PCB-72	27:46						0.0377	0.0377		
PCB-68	28:07	54155	0.86	1.2533	0.7623	0.7623	0.0329	0.0329		
PCB-57	28:29						0.0382	0.0382		
PCB-58	28:44						0.0311	0.0311		
PCB-67	28:53						0.0290	0.0290		
PCB-63	29:08	3821	0.77	1.1240	0.0688	0.0600	0.0367	0.0367		RQ
PCB-61	29:31	134580	0.82	1.2612	1.882	1.882	0.0327	0.0327		
PCB-70 (C61)	29:31	134580	0.82	1.2612	1.882	1.882	0.0327	0.0327		
PCB-74 (C61)	29:31	134580	0.82	1.2612	1.882	1.882	0.0327	0.0327		
PCB-76 (C61)	29:31	134580	0.82	1.2612	1.882	1.882	0.0327	0.0327		
PCB-66	29:51	86968	0.76	1.2583	1.219	1.219	0.0328	0.0328		
PCB-55	29:59						0.0312	0.0312		
PCB-56	30:31	45922	0.72	1.2334	0.6568	0.6568	0.0335	0.0335		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:44	22496	0.78	1.1230	0.3534	0.3534	0.0368	0.0368		
PCB-80	31:06						0.0312	0.0312		
PCB-79	32:38						0.0287	0.0287		
PCB-78	33:11						0.0355	0.0355		
PCB-81	33:38						0.0398	0.0398		
PCB-77	34:12	13782	0.77	1.0836	0.2330	0.2164	0.0366	0.0366		RQM
S Total Pentachlorobiphenyls					3.409	2.719	0.0215	0.0215		RQ
D PCB-104L	25:41	3751207	1.63	1.2161	88.7	88.7	0.0451	0.0451	88.72	
\$ PCB-95L	28:38	1558650	1.62	0.7218	57.6	57.6	0.0637	0.0637	115	
* PCB-101L	31:33	3476886	1.60		100.0	100.0				
\$ PCB-111L	34:12	3825574	1.61	1.3699	80.3	80.3	0.0401	0.0401	80.32	
D PCB-123L	36:10	5206112	1.58	0.9731	88.3	88.3	1.101	1.101	88.32	
D PCB-118L	36:29	5366055	1.59	1.0102	87.7	87.7	1.061	1.061	87.70	
D PCB-114L	37:01	5821648	1.63	0.9949	96.6	96.6	1.077	1.077	96.60	
D PCB-105L	37:41	5460647	1.62	0.9514	94.8	94.8	1.126	1.126	94.75	
* PCB-127L	39:08	6057340	1.60		100.0	100.0				
D PCB-126L	40:45	5251686	1.59	0.9439	91.9	91.9	1.135	1.135	91.86	
PCB-104	25:40						0.0134	0.0134		
PCB-96	26:05	1361	1.55	1.0940	0.0510	0.0332	0.0124	0.0124		RQM
PCB-103	27:57						0.0155	0.0155		
PCB-94	28:11						0.0177	0.0177		
PCB-95	28:40	10013	1.55	0.8033	0.4785	0.3323	0.0169	0.0169		RQM
PCB-93	28:53	808	1.55	0.8429	0.0542	0.0256	0.0161	0.0161		RQM
PCB-100 (C93)	28:53	808	1.55	0.8429	0.0542	0.0256	0.0161	0.0161		RQM
PCB-98	29:00	487	1.55	0.8262	0.0630	0.0157	0.0164	0.0164		RQ
PCB-102 (C98)	29:00	487	1.55	0.8262	0.0630	0.0157	0.0164	0.0164		RQ
PCB-88	29:32	2478	1.55	0.8013	0.1674	0.0824	0.0169	0.0169		RQ
PCB-91 (C88)	29:32	2478	1.55	0.8013	0.1674	0.0824	0.0169	0.0169		RQ
PCB-84	29:44	5158	1.50	0.7299	0.1884	0.1884	0.0186	0.0186		M
PCB-89	30:11						0.0174	0.0174		
PCB-121	30:34						0.0105	0.0105		
PCB-92	31:02	4238	1.44	0.8546	0.1322	0.1322	0.0159	0.0159		M
PCB-90	31:34	13438	1.55	0.9550	0.4219	0.3751	0.0142	0.0142		RQ
PCB-101 (C90)	31:34	13438	1.55	0.9550	0.4219	0.3751	0.0142	0.0142		RQ
PCB-113 (C90)	31:34	13438	1.55	0.9550	0.4219	0.3751	0.0142	0.0142		RQ
PCB-83	32:08	4067	1.55	0.8385	0.3200	0.1293	0.0162	0.0162		RQM
PCB-99 (C83)	32:08	4067	1.55	0.8385	0.3200	0.1293	0.0162	0.0162		RQM
PCB-112	32:14						0.009605	0.009605		
PCB-86	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-87 (C86)	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-97 (C86)	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-109 (C86)	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-119 (C86)	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-125 (C86)	32:46	14764	1.55	1.0473	0.4130	0.3758	0.0129	0.0129		RQM
PCB-85	33:21	3828	1.55	1.0408	0.1270	0.0980	0.0130	0.0130		RQM
PCB-116 (C85)	33:21	3828	1.55	1.0408	0.1270	0.0980	0.0130	0.0130		RQM
PCB-117 (C85)	33:21	3828	1.55	1.0408	0.1270	0.0980	0.0130	0.0130		RQM
PCB-110	33:32	18321	1.44	1.1919	0.4098	0.4098	0.0114	0.0114		
PCB-115 (C110)	33:32	18321	1.44	1.1919	0.4098	0.4098	0.0114	0.0114		
PCB-82	33:52	2376	1.55	0.8303	0.1375	0.0763	0.0163	0.0163		RQ
PCB-111	34:12						0.0112	0.0112		
PCB-120	34:40						0.009181	0.009181		
PCB-108	35:49						0.0355	0.0355		
PCB-124 (C108)	35:49						0.0355	0.0355		
PCB-107	36:04						0.0334	0.0334		
PCB-123	36:11						0.0375	0.0375		
PCB-106	36:18						0.0373	0.0373		
PCB-118	36:31	19606	1.67	1.2055	0.3031	0.3031	0.0339	0.0339		
PCB-122	36:52						0.0423	0.0423		
PCB-114	37:02						0.0351	0.0351		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:43	9227	1.36	1.1879	0.1422	0.1422	0.0339	0.0339		
PCB-127	39:09						0.0355	0.0355		
PCB-126	40:47						0.0395	0.0395		
S Total Hexachlorobiphenyls					0.8735	0.6643	0.007894	0.007894		RQ
D PCB-155L	31:17	3223386	1.29	1.0851	85.4	85.4	0.0644	0.0644	85.44	
\$ PCB-153L	38:21	2156029	1.29	0.9169	50.2	50.2	0.8667	0.8667	100	
* PCB-138L	39:36	4145125	1.30		100.0	100.0				
D PCB-167L	42:36	4584344	1.28	1.2572	88.0	88.0	0.5632	0.5632	87.97	
D PCB-156L	43:45	9634668	1.27	1.2106	192.0	192.0	0.5849	0.5849	96.00	
D PCB-157L (C156L)	43:45	9634668	1.27	1.2106	192.0	192.0	0.5849	0.5849	96.00	
D PCB-169L	46:59	4528939	1.28	1.2439	87.8	87.8	0.5693	0.5693	87.84	
PCB-155	31:17	655	1.24	0.9444	0.0286	0.0215	0.004836	0.004836		RQ
PCB-152	31:31						0.004615	0.004615		
PCB-150	31:40						0.004507	0.004507		
PCB-136	32:06	739	1.24	1.0116	0.0385	0.0227	0.004515	0.004515		RQ
PCB-145	32:20						0.004716	0.004716		
PCB-148	33:50						0.006007	0.006007		
PCB-135	34:26	247	1.24	0.7256	0.0200	0.0106	0.006294	0.006294		RQ
PCB-151 (C135)	34:26	247	1.24	0.7256	0.0200	0.0106	0.006294	0.006294		RQ
PCB-154	34:41						0.005618	0.005618		
PCB-144	35:00						0.005816	0.005816		
PCB-147	35:25	5346	1.24	0.8950	0.1463	0.1274	0.009452	0.009452		RQM
PCB-149 (C147)	35:25	5346	1.24	0.8950	0.1463	0.1274	0.009452	0.009452		RQM
PCB-134	35:40						0.0106	0.0106		
PCB-143 (C134)	35:40						0.0106	0.0106		
PCB-139	35:57						0.009647	0.009647		
PCB-140 (C139)	35:57						0.009647	0.009647		
PCB-131	36:10						0.0113	0.0113		
PCB-142	36:19						0.0113	0.0113		
PCB-132	36:39	2550	1.24	0.7489	0.1216	0.0726	0.0113	0.0113		RQ
PCB-133	37:07						0.0104	0.0104		
PCB-165	37:30						0.008255	0.008255		
PCB-146	37:47						0.008778	0.008778		RQU
PCB-161	37:53						0.007494	0.007494		
PCB-153	38:23	8607	1.24	1.0938	0.1919	0.1679	0.007734	0.007734		RQ
PCB-168 (C153)	38:23	8607	1.24	1.0938	0.1919	0.1679	0.007734	0.007734		RQ
PCB-141	38:35	1303	1.24	0.8755	0.0409	0.0318	0.009662	0.009662		RQ
PCB-130	38:59						0.0120	0.0120		
PCB-137	39:11						0.0109	0.0109		
PCB-164	39:19						0.008148	0.008148		
PCB-129	39:38	7866	1.24	0.9464	0.2485	0.1773	0.008938	0.008938		RQ
PCB-138 (C129)	39:38	7866	1.24	0.9464	0.2485	0.1773	0.008938	0.008938		RQ
PCB-160 (C129)	39:38	7866	1.24	0.9464	0.2485	0.1773	0.008938	0.008938		RQ
PCB-163 (C129)	39:38	7866	1.24	0.9464	0.2485	0.1773	0.008938	0.008938		RQ
PCB-158	39:57	901	1.09	1.3110	0.0147	0.0147	0.006452	0.006452		M
PCB-128	40:56	823	1.24	0.9829	0.0224	0.0179	0.008606	0.008606		RQa
PCB-166 (C128)	40:56	823	1.24	0.9829	0.0224	0.0179	0.008606	0.008606		RQa
PCB-159	41:50						0.006105	0.006105		
PCB-162	42:08						0.006729	0.006729		
PCB-167	42:36						0.006357	0.006357		
PCB-156	43:46						0.008966	0.008966		
PCB-157 (C156)	43:46						0.008966	0.008966		
PCB-169	47:00						0.006564	0.006564		RQU
S Total Heptachlorobiphenyls					0.2329	0.2056	0.002410	0.002410		RQ
D PCB-188L	37:00	3834795	1.07	1.3133	97.5	97.5	0.0264	0.0264	97.49	
\$ PCB-178L	40:03	2543148	1.06	1.0313	82.3	82.3	0.0336	0.0336	82.33	
* PCB-180L	45:08	2995047	1.08		100.0	100.0				
D PCB-170L	46:23	2313684	1.09	0.8362	92.4	92.4	0.0414	0.0414	92.38	
D PCB-189L	49:30	5089689	1.05	1.4414	93.1	93.1	0.4780	0.4780	93.12	
PCB-188	37:01						0.001381	0.001381		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22						0.001376	0.001376		
PCB-184	37:52						0.001436	0.001436		
PCB-176	38:14						0.001593	0.001593		
PCB-186	38:42						0.001333	0.001333		
PCB-178	40:04						0.002195	0.002195		
PCB-175	40:42						0.002062	0.002062		
PCB-187	40:59	933	1.05	1.1018	0.0305	0.0275	0.001782	0.001782		RQ
PCB-182	41:09						0.002124	0.002124		
PCB-183	41:38	1897	0.90	0.9825	0.0628	0.0628	0.001999	0.001999		M
PCB-185 (C183)	41:38	1897	0.90	0.9825	0.0628	0.0628	0.001999	0.001999		M
PCB-174	41:50						0.002037	0.002037		
PCB-177	42:16						0.002009	0.002009		
PCB-181	42:39						0.002066	0.002066		
PCB-171	42:52						0.002103	0.002103		
PCB-173 (C171)	42:52						0.002103	0.002103		
PCB-172	44:30						0.002305	0.002305		
PCB-192	44:45						0.001459	0.001459		
PCB-180	45:08	1784	1.05	1.1676	0.0638	0.0497	0.001682	0.001682		RQM
PCB-193 (C180)	45:08	1784	1.05	1.1676	0.0638	0.0497	0.001682	0.001682		RQM
PCB-191	45:30						0.001523	0.001523		
PCB-170	46:23	1800	1.05	1.1865	0.0757	0.0656	0.002216	0.002216		RQM
PCB-190	46:55						0.001474	0.001474		
PCB-189	49:30						0.0145	0.0145		
S Total Octachlorobiphenyls					0.0149	0.0100	0.004748	0.004748		RQ
D PCB-202L	42:21	2648583	0.92	0.9818	90.1	90.1	0.0161	0.0161	90.07	
* PCB-194L	51:36	3791858	0.90		100.0	100.0				
D PCB-205L	52:04	4267226	0.91	1.1786	95.5	95.5	0.0702	0.0702	95.49	
PCB-202	42:23						0.003728	0.003728		
PCB-201	43:17						0.003959	0.003959		
PCB-204	43:57						0.003683	0.003683		
PCB-197	44:11						0.003371	0.003371		
PCB-200	44:19						0.003834	0.003834		
PCB-198	47:04						0.004440	0.004440		
PCB-199 (C198)	47:04						0.004440	0.004440		
PCB-196	47:44						0.004947	0.004947		
PCB-203	47:56						0.004156	0.004156		
PCB-195	49:16						0.007711	0.007711		
PCB-194	51:36	415	0.89	0.9735	0.0149	0.0100	0.006545	0.006545		RQ
PCB-205	52:04						0.005858	0.005858		
S Total Nonachlorobiphenyls							0.1048	0.1048		
D PCB-208L	49:01	3359365	0.79	0.9576	92.5	92.5	0.1731	0.1731	92.52	
D PCB-206L	53:48	2584559	0.79	0.6947	98.1	98.1	0.2386	0.2386	98.12	
PCB-208	49:02						0.0932	0.0932		
PCB-207	49:57						0.0877	0.0877		
PCB-206	53:49						0.1048	0.1048		
D PCB-209L	55:25	2748762	0.73	0.6669	108.7	108.7	0.0626	0.0626	109	
DCB Decachlorobiphenyl	55:27	1029	0.69	1.1004	0.0561	0.0340	0.007801	0.007801		RQ
S Polychlorinated biphenyls, Total					49.1	0.0340	0.0306	0.0306		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-6-d.d
Lims ID: 140-37232-A-6-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 08:02:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:00:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:00:42

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:39	-1	0.727	4577418	1692084	1404	3510	1205		
202.0766	11:38	11:39	-1	0.727	1434404	526120	3391	8477	155	3.19(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:48	-1	0.860	5237748	1696457	1404	3510	1208		
202.0766	13:46	13:48	-1	0.860	1575873	511664	3391	8477	151	3.32(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	0	1.001	58567	20827	197	492	106		
190.0363	11:38	11:37	-1	1.000	21871	8499	217	542	39	2.68(2.66-3.60)	
PCB-2											
188.0393	13:36	13:37	-1	0.988	116921	37462	197	492	190		
190.0363	13:36	13:37	-1	0.988	37223	12840	217	542	59	3.14(2.66-3.60)	
PCB-3											
188.0393	13:47	13:46	-1	1.001	99696	30976	197	492	157		
190.0363	13:47	13:46	-1	1.001	29902	8988	217	542	41	3.33(2.66-3.60)	
PCB-4L											
234.0406	14:01	14:03	-1	0.876	1696394	562346	700	1750	803		
236.0376	14:01	14:03	-1	0.876	1081671	361623	146	365	2477	1.57(1.33-1.79)	
PCB-9L											
234.0406	16:00	15:59	2		4112212	1024762	700	1750	1464		
236.0376	16:00	15:59	2		2600843	648495	146	365	4442	1.58(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	3	1.203	1545921	265663	700	1750	380		a
236.0376	16:53	16:52	4	1.204	955222	171373	146	365	1174	1.62(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:05	20:05	12	1.255	3327768	619408	700	1750	885		
236.0376	20:05	20:05	12	1.255	2077317	397176	146	365	2720	1.60(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	-1	1.001	7488	2357	162	405	15		M
223.9974	14:02	14:02	-1	1.001	4827	1286	119	297	11	1.55(1.33-1.79)	M
PCB-10											
222.0003	14:12						162	405			
223.9974	14:12						119	297			
PCB-9											
222.0003	15:59						162	405			
223.9974	15:59						119	297			
PCB-7											
222.0003	16:11	16:11	2	1.154	11316	2030	162	405	13		
223.9974	16:11	16:11	2	1.154	6564	1727	119	297	15	1.72(1.33-1.79)	
PCB-6											
222.0003	16:28	16:28	4	1.174	13206	3397	162	405	21		a
223.9974	16:28	16:28	4	1.174	7377	1625	119	297	14	1.79(1.33-1.79)	a
PCB-5											
222.0003	16:42						162	405			
223.9974	16:42						119	297			
PCB-8											
222.0003	16:53	16:53	3	1.204	35170	5962	162	405	37		a
223.9974	16:54	16:53	4	1.205	19926	3369	119	297	28	1.77(1.33-1.79)	a
PCB-14											
222.0003	18:37						162	405			
223.9974	18:37						119	297			
PCB-11											
222.0003	19:30	19:30	13	0.971	334243	68654	162	405	424		
223.9974	19:30	19:30	13	0.971	202246	39010	119	297	328	1.65(1.33-1.79)	
PCB-12											
222.0003	19:43	19:43	8	0.982	11695	1646	162	405	10		a
223.9974	19:45	19:43	10	0.984	8166	1436	119	297	12	1.43(1.33-1.79)	a
PCB-13 (C12)											
222.0003	19:43	19:43	8	0.982	11695	1646	162	405	10		a
223.9974	19:45	19:43	10	0.984	8166	1436	119	297	12	1.43(1.33-1.79)	a
PCB-15											
222.0003	20:05	20:07	11	1.000	21663	3440	162	405	21		
223.9974	20:04	20:07	10	0.999	15079	1791	119	297	15	1.44(1.33-1.79)	
PCB-19L											
268.0016	17:12	17:07	5	0.839	991126	208293	501	1252	416		
269.9986	17:12	17:07	5	0.839	947845	202103	632	1580	320	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:31	20:20	10		2261211	564077	501	1252	1126		a
269.9986	20:31	20:20	10		2113289	524977	632	1580	831	1.07(0.88-1.20)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:41	22:35	6		6102690	1471204	799	1997	1841		
269.9986	22:41	22:35	6		5846102	1410946	538	1345	2623	1.04(0.88-1.20)	
PCB-28L											
268.0016	22:58	22:57	5	1.012	4679486	1100073	799	1997	1377		
269.9986	22:58	22:57	5	1.012	4385753	1032798	538	1345	1920	1.07(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:58	2	1.187	3755452	756157	799	1997	946		
269.9986	26:55	26:58	2	1.187	3529798	706418	538	1345	1313	1.06(0.88-1.20)	
PCB-19											
255.9613	17:12	17:13	4	1.000	1718	440	39	97	11		
257.9584	17:11	17:13	2	0.998	1747	321	35	87	9	0.98(0.88-1.20)	
PCB-18											
255.9613	19:13	19:13	18	1.118	15564	2976	39	97	76		M
257.9584	19:13	19:13	18	1.118	14961	3195	35	87	91	1.04(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:13	19:13	18	1.118	15564	2976	39	97	76		M
257.9584	19:13	19:13	18	1.118	14961	3195	35	87	91	1.04(0.88-1.20)	M
PCB-17											
255.9613	19:35	19:35	11	1.138	9545	2087	39	97	54		a
257.9584	19:34	19:35	10	1.138	9099	2279	35	87	65	1.05(0.88-1.20)	a
PCB-27											
255.9613	19:48	19:48	11	1.151	1539	301	39	97	8		RQMa
257.9584	19:48	19:48	11	1.151	3777	629	35	87	18	0.41(0.88-1.20)	M
	Empc Correction				1479	289	35	87	8		a
PCB-24											
255.9613	19:48						39	97			RQMU
257.9584	19:48						35	87			
PCB-16											
255.9613	20:02	20:02	10	1.165	5777	1247	39	97	32		RQa
257.9584	20:02	20:02	10	1.165	9360	1641	35	87	47	0.62(0.88-1.20)	a
	Empc Correction				5554	1199	35	87	34		
PCB-32											
255.9613	20:31	20:31	9	1.193	9764	2560	39	97	66		RQ
	Empc Correction				8413	2197	39	97	56		
257.9584	20:32	20:31	10	1.193	8090	2113	35	87	60	1.21(0.88-1.20)	
PCB-34											
255.9613	21:42						122	305			
257.9584	21:42						143	357			
PCB-23											
255.9613	21:51						122	305			
257.9584	21:51						143	357			
PCB-26											
255.9613	22:11	22:04	6	1.290	19481	4042	122	305	33		
257.9584	22:09	22:04	4	1.287	20790	3724	143	357	26	0.94(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:11	22:04	6	1.290	19481	4042	122	305	33		
257.9584	22:09	22:04	4	1.287	20790	3724	143	357	26	0.94(0.88-1.20)	
PCB-25											
255.9613	22:22	22:24	4	0.831	8643	2054	122	305	17		RQ
257.9584	22:24	22:24	6	0.832	11450	2543	143	357	18	0.75(0.88-1.20)	
Empc Correction					8310	1975	143	357	14		
PCB-31											
255.9613	22:42	22:42	6	0.844	103394	23531	122	305	193		a
257.9584	22:42	22:42	6	0.844	97025	24019	143	357	168	1.07(0.88-1.20)	a
PCB-20											
255.9613	22:59	22:56	4	0.854	101497	21278	122	305	174		
257.9584	22:59	22:56	4	0.854	106415	23097	143	357	162	0.95(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:56	4	0.854	101497	21278	122	305	174		
257.9584	22:59	22:56	4	0.854	106415	23097	143	357	162	0.95(0.88-1.20)	
PCB-21											
255.9613	23:14	23:14	9	0.863	67989	14426	122	305	118		a
257.9584	23:14	23:14	9	0.863	71920	13856	143	357	97	0.95(0.88-1.20)	a
PCB-33 (C21)											
255.9613	23:14	23:14	9	0.863	67989	14426	122	305	118		a
257.9584	23:14	23:14	9	0.863	71920	13856	143	357	97	0.95(0.88-1.20)	a
PCB-22											
255.9613	23:37	23:37	4	0.877	40981	10029	122	305	82		M
257.9584	23:37	23:37	4	0.877	41916	8929	143	357	62	0.98(0.88-1.20)	M
PCB-36											
255.9613	25:06						122	305			
257.9584	25:06						143	357			
PCB-39											
255.9613	25:29						122	305			
257.9584	25:29						143	357			
PCB-38											
255.9613	26:02						122	305			
257.9584	26:02						143	357			
PCB-35											
255.9613	26:33	26:32	3	0.987	7064	2328	122	305	19		M
257.9584	26:32	26:32	3	0.986	7996	1635	143	357	11	0.88(0.88-1.20)	M
PCB-37											
255.9613	26:57	26:55	3	1.001	34358	5761	122	305	47		M
257.9584	26:55	26:55	1	1.000	35884	8047	143	357	56	0.96(0.88-1.20)	M
PCB-54L											
301.9626	20:22	20:13	11	0.822	980144	214261	138	345	1553		
303.9597	20:22	20:13	11	0.822	1208708	273025	50	125	5461	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:42	3		2523502	571646	1076	2690	531		
303.9597	24:46	24:42	3		3166217	726544	1712	4280	424	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:38	32:37	2	0.971	1465989	279711	1076	2690	260	0.81(0.65-0.89)	
303.9597	32:37	32:37	1	0.970	1807369	347428	1712	4280	203		
PCB-81L											
301.9626	33:37	33:39	1	1.358	2439526	468148	1076	2690	435	0.81(0.65-0.89)	
303.9597	33:38	33:39	2	1.358	3018634	570692	1712	4280	333		
PCB-77L											
301.9626	34:11	34:14	1	1.381	2660981	515986	1076	2690	480	0.83(0.65-0.89)	
303.9597	34:11	34:14	1	1.381	3217362	610686	1712	4280	357		
PCB-54											
289.9224	20:24	20:24	13	1.000	337	136	7	17	19	0.97(0.65-0.89)	RQa
	Empc Correction				267	114	7	17	16		a
291.9194	20:21	20:24	10	0.997	347	149	7	17	21		
PCB-50											
289.9224	22:27	22:27	6	1.102	6528	1609	41	102	39	0.61(0.65-0.89)	RQa
291.9194	22:26	22:27	5	1.102	10761	2278	138	345	17		a
	Empc Correction				8477	2089	138	345	15		
PCB-53 (C50)											
289.9224	22:27	22:27	6	1.102	6528	1609	41	102	39	0.61(0.65-0.89)	RQa
291.9194	22:26	22:27	5	1.102	10761	2278	138	345	17		a
	Empc Correction				8477	2089	138	345	15		
PCB-45											
289.9224	23:09	23:09	4	1.137	40103	7613	41	102	186	0.86(0.65-0.89)	a
291.9194	23:10	23:09	5	1.137	46650	9385	138	345	68		a
PCB-51 (C45)											
289.9224	23:09	23:09	4	1.137	40103	7613	41	102	186	0.86(0.65-0.89)	a
291.9194	23:10	23:09	5	1.137	46650	9385	138	345	68		a
PCB-46											
289.9224	23:24	23:24	4	1.149	2703	746	41	102	18	0.98(0.65-0.89)	RQa
	Empc Correction				2120	565	41	102	14		a
291.9194	23:24	23:24	3	1.149	2754	734	138	345	5		
PCB-52											
289.9224	24:46	24:46	3	1.216	40759	8828	41	102	215	0.81(0.65-0.89)	a
291.9194	24:46	24:46	3	1.216	50050	10580	138	345	77		a
PCB-43											
289.9224	25:06						41	102			
291.9194	25:06						138	345			
PCB-73 (C43)											
289.9224	25:06						41	102			
291.9194	25:06						138	345			
PCB-49											
289.9224	25:15	25:15	6	1.240	22245	4443	41	102	108	0.73(0.65-0.89)	a
291.9194	25:15	25:15	6	1.240	30291	6948	138	345	50		a
PCB-69 (C49)											
289.9224	25:15	25:15	6	1.240	22245	4443	41	102	108	0.73(0.65-0.89)	a
291.9194	25:15	25:15	6	1.240	30291	6948	138	345	50		a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											RQa
289.9224	25:32	25:32	3	1.254	8480	1793	41	102	44		a
291.9194	25:32	25:32	3	1.253	13385	3875	138	345	28	0.63(0.65-0.89)	
Empc Correction					11012	2328	138	345	17		
PCB-44											a
289.9224	25:48	25:48	4	1.267	146874	28190	41	102	688		a
291.9194	25:47	25:48	3	1.266	185363	36564	138	345	265	0.79(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:48	25:48	4	1.267	146874	28190	41	102	688		a
291.9194	25:47	25:48	3	1.266	185363	36564	138	345	265	0.79(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:48	25:48	4	1.267	146874	28190	41	102	688		a
291.9194	25:47	25:48	3	1.266	185363	36564	138	345	265	0.79(0.65-0.89)	
PCB-59											RQa
289.9224	26:06	26:06	3	1.282	4538	1089	41	102	27		a
Empc Correction					3742	839	41	102	20		
291.9194	26:03	26:06	0	1.279	4861	1090	138	345	8	0.93(0.65-0.89)	
PCB-62 (C59)											RQa
289.9224	26:06	26:06	3	1.282	4538	1089	41	102	27		a
Empc Correction					3742	839	41	102	20		
291.9194	26:03	26:06	0	1.279	4861	1090	138	345	8	0.93(0.65-0.89)	
PCB-75 (C59)											RQa
289.9224	26:06	26:06	3	1.282	4538	1089	41	102	27		a
Empc Correction					3742	839	41	102	20		
291.9194	26:03	26:06	0	1.279	4861	1090	138	345	8	0.93(0.65-0.89)	
PCB-42											RQa
289.9224	26:18	26:18	3	1.291	9329	2170	41	102	53		a
291.9194	26:18	26:18	3	1.291	16785	3021	138	345	22	0.56(0.65-0.89)	
Empc Correction					12115	2818	138	345	20		
PCB-40											M
289.9224	26:48	26:47	3	1.316	23343	3858	41	102	94		M
291.9194	26:47	26:47	2	1.315	32357	5976	138	345	43	0.72(0.65-0.89)	M
PCB-41 (C40)											M
289.9224	26:48	26:47	3	1.316	23343	3858	41	102	94		M
291.9194	26:47	26:47	2	1.315	32357	5976	138	345	43	0.72(0.65-0.89)	M
PCB-71 (C40)											M
289.9224	26:48	26:47	3	1.316	23343	3858	41	102	94		M
291.9194	26:47	26:47	2	1.315	32357	5976	138	345	43	0.72(0.65-0.89)	M
PCB-64											RQa
289.9224	27:00	27:00	3	1.326	18730	3677	41	102	90		a
291.9194	27:00	27:00	3	1.326	29608	6005	138	345	44	0.63(0.65-0.89)	
Empc Correction					24324	4775	138	345	35		
PCB-72											
289.9224	27:47						41	102			
291.9194	27:47						138	345			
PCB-68											
289.9224	28:07	28:04	3	0.836	25085	5294	41	102	129		
291.9194	28:06	28:04	2	0.836	29070	6912	138	345	50	0.86(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:29						41	102			
291.9194	28:29						138	345			
PCB-58											
289.9224	28:45						41	102			
291.9194	28:45						138	345			
PCB-67											
289.9224	28:54						41	102			
291.9194	28:54						138	345			
PCB-63											
289.9224	29:08	29:09	-1	0.867	2224	429	41	102	10		RQ
	Empc Correction				1662	421	41	102	10		
291.9194	29:11	29:09	2	0.868	2159	548	138	345	4	1.03(0.65-0.89)	
PCB-61											
289.9224	29:31	29:30	1	0.878	60455	9112	41	102	222		
291.9194	29:32	29:30	2	0.879	74125	11006	138	345	80	0.82(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:31	29:30	1	0.878	60455	9112	41	102	222		
291.9194	29:32	29:30	2	0.879	74125	11006	138	345	80	0.82(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:31	29:30	1	0.878	60455	9112	41	102	222		
291.9194	29:32	29:30	2	0.879	74125	11006	138	345	80	0.82(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:31	29:30	1	0.878	60455	9112	41	102	222		
291.9194	29:32	29:30	2	0.879	74125	11006	138	345	80	0.82(0.65-0.89)	
PCB-66											
289.9224	29:51	29:50	2	0.888	37419	8596	41	102	210		
291.9194	29:50	29:50	1	0.887	49549	10057	138	345	73	0.76(0.65-0.89)	
PCB-55											
289.9224	29:59						41	102			
291.9194	29:59						138	345			
PCB-56											
289.9224	30:31	30:30	2	0.908	19288	4108	41	102	100		
291.9194	30:31	30:30	2	0.908	26634	6223	138	345	45	0.72(0.65-0.89)	
PCB-60											
289.9224	30:44	30:43	2	0.914	9859	2420	41	102	59		
291.9194	30:44	30:43	2	0.914	12637	2942	138	345	21	0.78(0.65-0.89)	
PCB-80											
289.9224	31:06						41	102			
291.9194	31:06						138	345			
PCB-79											
289.9224	32:39						41	102			
291.9194	32:39						138	345			
PCB-78											
289.9224	33:12						41	102			
291.9194	33:12						138	345			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:39						41	102			
291.9194	33:39						138	345			
PCB-77											
289.9224	34:12	34:13	0	1.000	7057	1532	41	102	37		RQM
	Empc Correction				5995	1058	41	102	26		
291.9194	34:13	34:13	1	1.001	7787	1375	138	345	10	0.91(0.65-0.89)	M
PCB-104L											
337.9207	25:41	25:38	3	0.814	2324438	537436	98	245	5484		
339.9178	25:41	25:38	3	0.814	1426769	325825	61	152	5341	1.63(1.32-1.78)	
PCB-95L											
337.9207	28:38	28:36	2	1.115	963018	198592	98	245	2026		
339.9178	28:38	28:36	2	1.115	595632	127035	61	152	2083	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:33	31:31	2		2139120	440869	98	245	4499		
339.9178	31:33	31:31	2		1337766	282270	61	152	4627	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	1	1.084	2362161	471337	98	245	4810		
339.9178	34:12	34:11	1	1.084	1463413	287344	61	152	4711	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:10	36:09	1	1.147	3187094	642391	3123	7807	206		
339.9178	36:10	36:09	1	1.147	2019018	407729	1786	4465	228	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	0	1.157	3295218	632965	3123	7807	203		
339.9178	36:30	36:29	1	1.157	2070837	399466	1786	4465	224	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:01	37:00	1	1.174	3605843	686641	3123	7807	220		
339.9178	37:01	37:00	0	1.173	2215805	423848	1786	4465	237	1.63(1.32-1.78)	
PCB-105L											
337.9207	37:41	37:40	0	1.195	3375637	654317	3123	7807	210		
339.9178	37:41	37:40	0	1.195	2085010	394151	1786	4465	221	1.62(1.32-1.78)	
PCB-127L											
337.9207	39:08	39:07	1		3727307	706851	3123	7807	226		
339.9178	39:08	39:07	1		2330033	438264	1786	4465	245	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:45	40:45	0	1.292	3222236	595493	3123	7807	191		
339.9178	40:45	40:45	0	1.292	2029450	376981	1786	4465	211	1.59(1.32-1.78)	
PCB-104											
325.8804	25:42						41	102			
327.8775	25:42						6	15			
PCB-96											
325.8804	26:05	26:05	2	1.015	1560	415	41	102	10		RQM
	Empc Correction				827	376	41	102	9		M
327.8775	26:05	26:05	2	1.015	534	243	6	15	41	2.92(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	28:00						41	102			
327.8775	28:00						6	15			
PCB-94											
325.8804	28:14						41	102			
327.8775	28:14						6	15			
PCB-95											
325.8804	28:40	28:40	2	1.116	10493	1845	41	102	45		RQM
	Empc Correction				6086	1889	41	102	46		M
327.8775	28:41	28:40	3	1.117	3927	1219	6	15	203	2.67(1.32-1.78)	
PCB-93											
325.8804	28:53	28:51	2	1.124	1396	322	41	102	8		RQM
	Empc Correction				491	175	41	102	4		
327.8775	28:51	28:51	1	1.123	317	113	6	15	19	4.40(1.32-1.78)	M
PCB-100 (C93)											
325.8804	28:53	28:51	2	1.124	1396	322	41	102	8		RQM
	Empc Correction				491	175	41	102	4		
327.8775	28:51	28:51	1	1.123	317	113	6	15	19	4.40(1.32-1.78)	M
PCB-98											
325.8804	29:00	29:02	1	1.129	1760	305	41	102	7		RQ
	Empc Correction				296	105	41	102	3		
327.8775	28:59	29:02	0	1.129	191	68	6	15	11	9.21(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:00	29:02	1	1.129	1760	305	41	102	7		RQ
	Empc Correction				296	105	41	102	3		
327.8775	28:59	29:02	0	1.129	191	68	6	15	11	9.21(1.32-1.78)	
PCB-88											
325.8804	29:32	29:30	2	1.150	4061	799	41	102	19		RQ
	Empc Correction				1506	396	41	102	10		
327.8775	29:31	29:30	2	1.149	972	256	6	15	43	4.18(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:32	29:30	2	1.150	4061	799	41	102	19		RQ
	Empc Correction				1506	396	41	102	10		
327.8775	29:31	29:30	2	1.149	972	256	6	15	43	4.18(1.32-1.78)	
PCB-84											
325.8804	29:44	29:47	0	1.158	3097	589	41	102	14		M
327.8775	29:47	29:47	3	1.160	2061	500	6	15	83	1.50(1.32-1.78)	M
PCB-89											
325.8804	30:14						41	102			
327.8775	30:14						6	15			
PCB-121											
325.8804	30:33						41	102			
327.8775	30:33						6	15			
PCB-92											
325.8804	31:02	30:57	4	0.858	2504	472	41	102	12		M
327.8775	30:57	30:57	-1	0.856	1734	327	6	15	55	1.44(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-90											RQ
325.8804	31:34	31:33	2	1.229	9843	2164	41	102	53		
	Empc Correction				8168	2627	41	102	64		
327.8775	31:34	31:33	2	1.229	5270	1695	6	15	283	1.87(1.32-1.78)	
PCB-101 (C90)											RQ
325.8804	31:34	31:33	2	1.229	9843	2164	41	102	53		
	Empc Correction				8168	2627	41	102	64		
327.8775	31:34	31:33	2	1.229	5270	1695	6	15	283	1.87(1.32-1.78)	
PCB-113 (C90)											RQ
325.8804	31:34	31:33	2	1.229	9843	2164	41	102	53		
	Empc Correction				8168	2627	41	102	64		
327.8775	31:34	31:33	2	1.229	5270	1695	6	15	283	1.87(1.32-1.78)	
PCB-83											RQM
325.8804	32:08	32:10	1	1.251	8470	1422	41	102	35		
	Empc Correction				2472	525	41	102	13		
327.8775	32:10	32:10	2	1.252	1595	339	6	15	57	5.31(1.32-1.78)	M
PCB-99 (C83)											RQM
325.8804	32:08	32:10	1	1.251	8470	1422	41	102	35		
	Empc Correction				2472	525	41	102	13		
327.8775	32:10	32:10	2	1.252	1595	339	6	15	57	5.31(1.32-1.78)	M
PCB-112											
325.8804	32:17						41	102			
327.8775	32:17						6	15			
PCB-86											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	
PCB-87 (C86)											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	
PCB-97 (C86)											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	
PCB-109 (C86)											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	
PCB-119 (C86)											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	
PCB-125 (C86)											RQM
325.8804	32:46	32:46	9	1.276	10436	1032	41	102	25		M
	Empc Correction				8974	1475	41	102	36		
327.8775	32:39	32:46	2	1.271	5790	952	6	15	159	1.80(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-85											RQM
325.8804	33:21	33:24	2	1.299	2327	466	41	102	11		
327.8775	33:24	33:24	5	1.301	2631	624	6	15	104	0.88(1.32-1.78)	M
Empc Correction					1501	300	6	15	50		
PCB-116 (C85)											RQM
325.8804	33:21	33:24	2	1.299	2327	466	41	102	11		
327.8775	33:24	33:24	5	1.301	2631	624	6	15	104	0.88(1.32-1.78)	M
Empc Correction					1501	300	6	15	50		
PCB-117 (C85)											RQM
325.8804	33:21	33:24	2	1.299	2327	466	41	102	11		
327.8775	33:24	33:24	5	1.301	2631	624	6	15	104	0.88(1.32-1.78)	M
Empc Correction					1501	300	6	15	50		
PCB-110											
325.8804	33:32	33:32	-1	1.306	10807	1958	41	102	48		
327.8775	33:32	33:32	-1	1.306	7514	1578	6	15	263	1.44(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:32	33:32	-1	1.306	10807	1958	41	102	48		
327.8775	33:32	33:32	-1	1.306	7514	1578	6	15	263	1.44(1.32-1.78)	
PCB-82											RQ
325.8804	33:52	33:53	1	1.319	3351	708	41	102	17		
Empc Correction					1444	621	41	102	15		
327.8775	33:51	33:53	0	1.318	932	401	6	15	67	3.60(1.32-1.78)	
PCB-111											
325.8804	34:16						41	102			
327.8775	34:16						6	15			
PCB-120											
325.8804	34:43						41	102			
327.8775	34:43						6	15			
PCB-108											
325.8804	35:53						114	285			
327.8775	35:53						55	137			
PCB-124 (C108)											
325.8804	35:53						114	285			
327.8775	35:53						55	137			
PCB-107											
325.8804	36:07						114	285			
327.8775	36:07						55	137			
PCB-123											
325.8804	36:12						114	285			
327.8775	36:12						55	137			
PCB-106											
325.8804	36:19						114	285			
327.8775	36:19						55	137			
PCB-118											
325.8804	36:31	36:30	0	1.001	12266	2913	114	285	26		
327.8775	36:30	36:30	0	1.000	7340	1294	55	137	24	1.67(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-122											
325.8804	36:52						114	285			
327.8775	36:52						55	137			
PCB-114											
325.8804	37:03						114	285			
327.8775	37:03						55	137			
PCB-105											
325.8804	37:43	37:42	2	1.001	5309	983	114	285	9		
327.8775	37:42	37:42	0	1.000	3918	984	55	137	18	1.36(1.32-1.78)	
PCB-127											
325.8804	39:09						114	285			
327.8775	39:09						55	137			
PCB-126											
325.8804	40:47						114	285			
327.8775	40:47						55	137			
PCB-155L											
371.8817	31:17	31:15	2	0.790	1818421	367736	103	257	3570		
373.8788	31:17	31:15	2	0.790	1404965	289155	99	247	2921	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:21	38:19	1	0.900	1213886	238652	1616	4040	148		
373.8788	38:21	38:19	1	0.900	942143	190506	714	1785	267	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:36	39:36	0		2344143	468777	1616	4040	290		
373.8788	39:36	39:36	0		1800982	353875	714	1785	496	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:36	42:34	0	1.076	2573277	491776	1616	4040	304		
373.8788	42:35	42:34	-1	1.075	2011067	382221	714	1785	535	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:45	43:43	1	1.105	5394745	690234	1616	4040	427		
373.8788	43:45	43:43	1	1.105	4239923	555200	714	1785	778	1.27(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:45	43:43	1	1.105	5394745	690234	1616	4040	427		
373.8788	43:45	43:43	1	1.105	4239923	555200	714	1785	778	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:59	46:57	1	1.186	2545985	451633	1616	4040	279		
373.8788	46:59	46:57	1	1.186	1982954	360692	714	1785	505	1.28(1.05-1.43)	
PCB-155											
359.8415	31:17	31:19	-1	1.000	363	186	6	15	31		RQ
361.8385	31:17	31:19	0	1.000	509	223	6	15	37	0.71(1.05-1.43)	
Empc Correction					292	149	6	15	25		
PCB-152											
359.8415	31:33						6	15			
361.8385	31:33						6	15			
PCB-150											
359.8415	31:42						6	15			
361.8385	31:42						6	15			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											RQ
359.8415	32:06	32:06	2	1.026	927	298	6	15	50		
	Empc Correction				409	142	6	15	24		
361.8385	32:07	32:06	4	1.027	330	115	6	15	19	2.81(1.05-1.43)	
PCB-145											
359.8415	32:22						6	15			
361.8385	32:22						6	15			
PCB-148											
359.8415	33:52						6	15			
361.8385	33:52						6	15			
PCB-135											RQ
359.8415	34:26	34:27	0	1.100	137	44	6	15	7		
361.8385	34:28	34:27	2	1.101	330	101	6	15	17	0.42(1.05-1.43)	
	Empc Correction				110	35	6	15	6		
PCB-151 (C135)											RQ
359.8415	34:26	34:27	0	1.100	137	44	6	15	7		
361.8385	34:28	34:27	2	1.101	330	101	6	15	17	0.42(1.05-1.43)	
	Empc Correction				110	35	6	15	6		
PCB-154											
359.8415	34:42						6	15			
361.8385	34:42						6	15			
PCB-144											
359.8415	35:02						6	15			
361.8385	35:02						6	15			
PCB-147											RQM
359.8415	35:25	35:21	3	1.132	3749	694	23	57	30		
	Empc Correction				2959	891	23	57	39		
361.8385	35:21	35:21	0	1.130	2387	719	2	5	360	1.57(1.05-1.43)	M
PCB-149 (C147)											RQM
359.8415	35:25	35:21	3	1.132	3749	694	23	57	30		
	Empc Correction				2959	891	23	57	39		
361.8385	35:21	35:21	0	1.130	2387	719	2	5	360	1.57(1.05-1.43)	M
PCB-134											
359.8415	35:42						23	57			
361.8385	35:42						2	5			
PCB-143 (C134)											
359.8415	35:42						23	57			
361.8385	35:42						2	5			
PCB-139											
359.8415	35:58						23	57			
361.8385	35:58						2	5			
PCB-140 (C139)											
359.8415	35:58						23	57			
361.8385	35:58						2	5			
PCB-131											
359.8415	36:12						23	57			
361.8385	36:12						2	5			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-142											
359.8415	36:21						23	57			
361.8385	36:21						2	5			
PCB-132											
359.8415	36:39	36:39	1	1.172	1412	441	23	57	19		RQ
361.8385	36:40	36:39	2	1.172	2856	596	2	5	298	0.49(1.05-1.43)	
	Empc Correction				1138	355	2	5	178		
PCB-133											
359.8415	37:09						23	57			
361.8385	37:09						2	5			
PCB-165											
359.8415	37:31						23	57			
361.8385	37:31						2	5			
PCB-146											
359.8415	37:45						23	57			RQU
361.8385	37:45						2	5			
PCB-161											
359.8415	37:53						23	57			
361.8385	37:53						2	5			
PCB-153											
359.8415	38:23	38:20	0	0.901	4765	1177	23	57	51		RQ
361.8385	38:23	38:20	0	0.901	5072	1121	2	5	561	0.94(1.05-1.43)	
	Empc Correction				3842	949	2	5	475		
PCB-168 (C153)											
359.8415	38:23	38:20	0	0.901	4765	1177	23	57	51		RQ
361.8385	38:23	38:20	0	0.901	5072	1121	2	5	561	0.94(1.05-1.43)	
	Empc Correction				3842	949	2	5	475		
PCB-141											
359.8415	38:35	38:35	0	0.906	1098	230	23	57	10		RQ
	Empc Correction				721	220	23	57	10		
361.8385	38:36	38:35	2	0.906	582	178	2	5	89	1.89(1.05-1.43)	
PCB-130											
359.8415	39:00						23	57			
361.8385	39:00						2	5			
PCB-137											
359.8415	39:11						23	57			
361.8385	39:11						2	5			
PCB-164											
359.8415	39:19						23	57			
361.8385	39:19						2	5			
PCB-129											
359.8415	39:38	39:38	0	0.931	7513	1622	23	57	71		RQ
	Empc Correction				4354	829	23	57	36		
361.8385	39:39	39:38	1	0.931	3512	669	2	5	335	2.14(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.931	7513	1622	23	57	71		RQ
	Empc Correction				4354	829	23	57	36		
361.8385	39:39	39:38	1	0.931	3512	669	2	5	335	2.14(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-160 (C129)											RQ
359.8415	39:38	39:38	0	0.931	7513	1622	23	57	71		
	Empc Correction				4354	829	23	57	36		
361.8385	39:39	39:38	1	0.931	3512	669	2	5	335	2.14(1.05-1.43)	
PCB-163 (C129)											RQ
359.8415	39:38	39:38	0	0.931	7513	1622	23	57	71		
	Empc Correction				4354	829	23	57	36		
361.8385	39:39	39:38	1	0.931	3512	669	2	5	335	2.14(1.05-1.43)	
PCB-158											M
359.8415	39:57	39:57	-3	0.938	470	177	23	57	8		M
361.8385	40:00	39:57	0	0.939	431	129	2	5	65	1.09(1.05-1.43)	M
PCB-128											RQa
359.8415	40:56	40:56	6	0.961	456	103	23	57	4		a
361.8385	40:55	40:56	4	0.961	576	246	2	5	123	0.79(1.05-1.43)	
	Empc Correction				367	83	2	5	42		
PCB-166 (C128)											RQa
359.8415	40:56	40:56	6	0.961	456	103	23	57	4		a
361.8385	40:55	40:56	4	0.961	576	246	2	5	123	0.79(1.05-1.43)	
	Empc Correction				367	83	2	5	42		
PCB-159											
359.8415	41:51						23	57			
361.8385	41:51						2	5			
PCB-162											
359.8415	42:08						23	57			
361.8385	42:08						2	5			
PCB-167											
359.8415	42:36						23	57			
361.8385	42:36						2	5			
PCB-156											
359.8415	43:41						23	57			
361.8385	43:41						2	5			
PCB-157 (C156)											
359.8415	43:41						23	57			
361.8385	43:41						2	5			
PCB-169											RQU
359.8415	46:59						23	57			
361.8385	46:59						2	5			
PCB-188L											
405.8428	37:00	36:58	1	0.820	1983978	399902	42	105	9521		
407.8398	37:00	36:58	1	0.820	1850817	365892	39	97	9382	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:03	40:01	0	0.887	1310916	253722	42	105	6041		
407.8398	40:04	40:01	1	0.888	1232232	242265	39	97	6212	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:08	45:07	1		1552913	302808	42	105	7210		
407.8398	45:08	45:07	1		1442134	280684	39	97	7197	1.08(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-170L											
405.8428	46:23	46:22	0	1.028	1207317	235894	42	105	5617		
407.8398	46:23	46:22	0	1.028	1106367	220458	39	97	5653	1.09(0.89-1.21)	
PCB-189L											
405.8428	49:30	49:27	1	1.097	2609990	486465	1055	2637	461		
407.8398	49:29	49:27	0	1.096	2479699	461069	894	2235	516	1.05(0.89-1.21)	
PCB-188											
393.8025	37:02						1	2			
395.7995	37:02						4	10			
PCB-179											
393.8025	37:24						1	2			
395.7995	37:24						4	10			
PCB-184											
393.8025	37:53						1	2			
395.7995	37:53						4	10			
PCB-176											
393.8025	38:16						1	2			
395.7995	38:16						4	10			
PCB-186											
393.8025	38:43						1	2			
395.7995	38:43						4	10			
PCB-178											
393.8025	40:05						1	2			
395.7995	40:05						4	10			
PCB-175											
393.8025	40:43						1	2			
395.7995	40:43						4	10			
PCB-187											
393.8025	40:59	40:54	1	1.108	478	126	1	2	126		RQ
395.7995	41:01	40:54	3	1.109	556	275	4	10	69	0.86(0.89-1.21)	
	Empc Correction				455	120	4	10	30		
PCB-182											
393.8025	41:11						1	2			
395.7995	41:11						4	10			
PCB-183											
393.8025	41:38	41:38	4	1.125	898	338	1	2	338		M
395.7995	41:34	41:38	0	1.124	999	309	4	10	77	0.90(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:38	41:38	4	1.125	898	338	1	2	338		M
395.7995	41:34	41:38	0	1.124	999	309	4	10	77	0.90(0.89-1.21)	M
PCB-174											
393.8025	41:50						1	2			
395.7995	41:50						4	10			
PCB-177											
393.8025	42:17						1	2			
395.7995	42:17						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-181											
393.8025	42:40						1	2			
395.7995	42:40						4	10			
PCB-171											
393.8025	42:55						1	2			
395.7995	42:55						4	10			
PCB-173 (C171)											
393.8025	42:55						1	2			
395.7995	42:55						4	10			
PCB-172											
393.8025	44:31						1	2			
395.7995	44:31						4	10			
PCB-192											
393.8025	44:47						1	2			
395.7995	44:47						4	10			
PCB-180											
393.8025	45:08	45:09	2	0.912	914	229	1	2	229		RQM
395.7995	45:09	45:09	3	0.912	1376	310	4	10	78	0.66(0.89-1.21)	M
Empc Correction					870	218	4	10	55		
PCB-193 (C180)											
393.8025	45:08	45:09	2	0.912	914	229	1	2	229		RQM
395.7995	45:09	45:09	3	0.912	1376	310	4	10	78	0.66(0.89-1.21)	M
Empc Correction					870	218	4	10	55		
PCB-191											
393.8025	45:31						1	2			
395.7995	45:31						4	10			
PCB-170											
393.8025	46:23	46:23	-1	0.937	922	165	1	2	165		RQM
395.7995	46:23	46:23	-1	0.937	1157	409	4	10	102	0.80(0.89-1.21)	M
Empc Correction					878	157	4	10	39		
PCB-190											
393.8025	46:56						1	2			
395.7995	46:56						4	10			
PCB-189											
393.8025	49:31						18	45			
395.7995	49:31						35	87			
PCB-202L											
439.8038	42:21	42:19	1	0.821	1272484	246435	15	37	16429		
441.8008	42:21	42:19	1	0.821	1376099	271447	22	55	12339	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:35	0		1800415	336153	98	245	3430		
441.8008	51:36	51:35	0		1991443	370974	136	340	2728	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:04	52:02	1	1.009	2027282	374216	98	245	3819		
441.8008	52:04	52:02	1	1.009	2239944	410487	136	340	3018	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-202											
427.7635	42:24						6	15			
429.7606	42:24						2	5			
PCB-201											
427.7635	43:18						6	15			
429.7606	43:18						2	5			
PCB-204											
427.7635	43:58						6	15			
429.7606	43:58						2	5			
PCB-197											
427.7635	44:12						6	15			
429.7606	44:12						2	5			
PCB-200											
427.7635	44:20						6	15			
429.7606	44:20						2	5			
PCB-198											
427.7635	47:05						6	15			
429.7606	47:05						2	5			
PCB-199 (C198)											
427.7635	47:05						6	15			
429.7606	47:05						2	5			
PCB-196											
427.7635	47:45						6	15			
429.7606	47:45						2	5			
PCB-203											
427.7635	47:57						6	15			
429.7606	47:57						2	5			
PCB-195											
427.7635	49:17						11	27			
429.7606	49:17						9	22			
PCB-194											
427.7635	51:36	51:35	0	0.991	397	102	11	27	9		RQ
	Empc Correction				195	93	11	27	8		
429.7606	51:35	51:35	-1	0.991	220	105	9	22	12	1.80(0.76-1.02)	
PCB-205											
427.7635	52:06						11	27			
429.7606	52:06						9	22			
PCB-208L											
473.7648	49:01	48:59	0	0.950	1485736	278837	213	532	1309		
475.7619	49:01	48:59	0	0.950	1873629	359669	256	640	1405	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:47	0	1.043	1143617	219467	213	532	1030		
475.7619	53:48	53:47	0	1.043	1440942	264586	256	640	1034	0.79(0.65-0.89)	
PCB-208											
461.7246	49:02						70	175			
463.7216	49:02						201	502			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-207

461.7246	49:57						70	175			
463.7216	49:57						201	502			

PCB-206

461.7246	53:50						70	175			
463.7216	53:50						201	502			

PCB-209L

507.7258	55:25	55:23	1	1.074	1155615	206751	55	137	3759		
509.7229	55:25	55:23	1	1.074	1593147	282495	63	157	4484	0.73(0.59-0.79)	

DCB Decachlorobiphenyl

RQ

495.6856	55:27	55:27	0	1.000	1087	559	8	20	70		
	Empc Correction				420	130	8	20	16		
497.6826	55:27	55:27	1	1.001	609	189	9	22	21	1.78(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

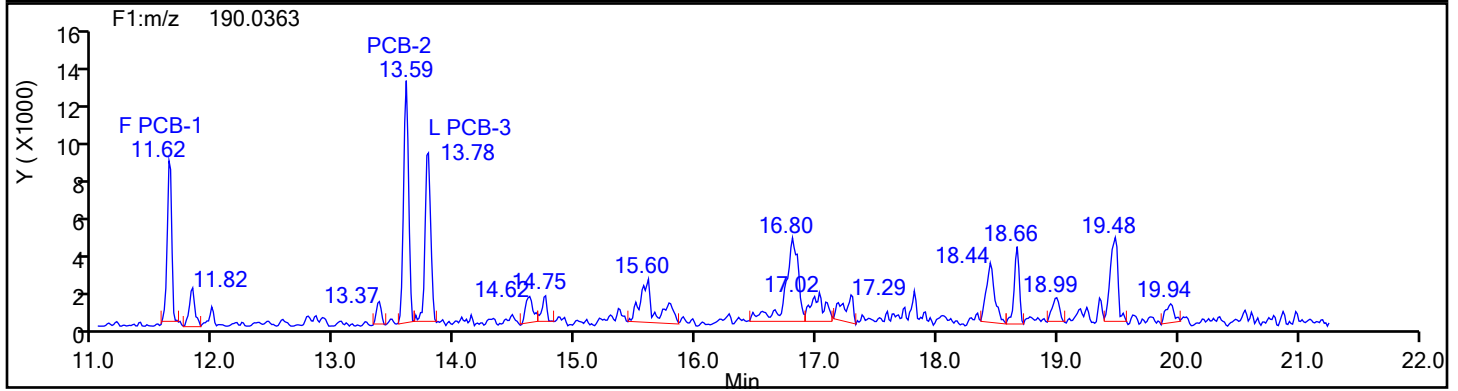
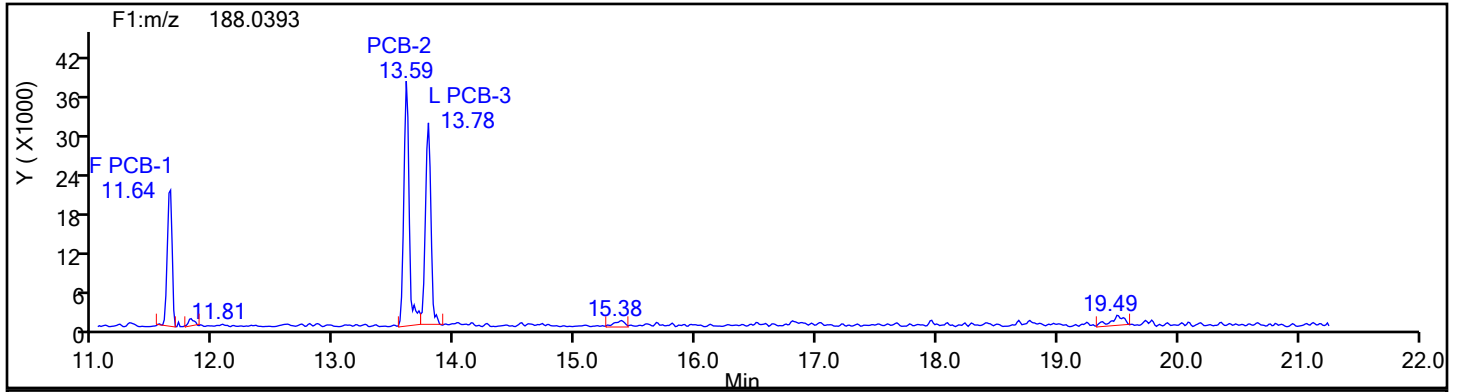
M - Manually Integrated

U - Marked Undetected

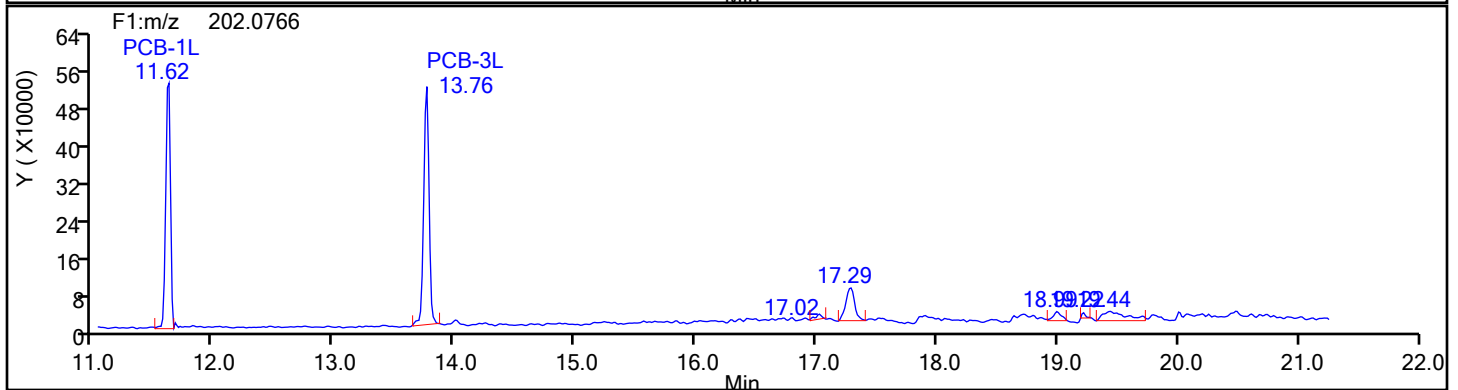
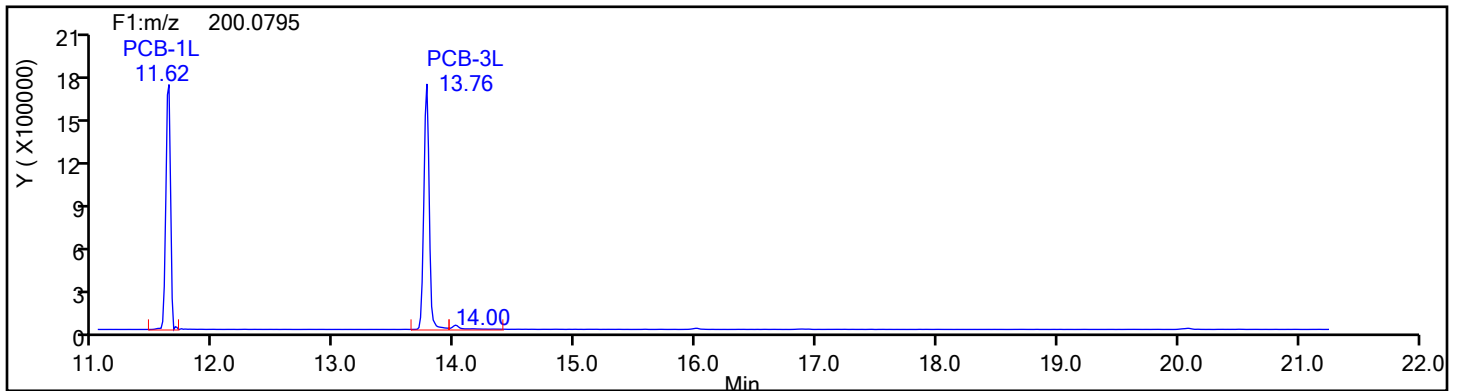
a - User Assigned ID

Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

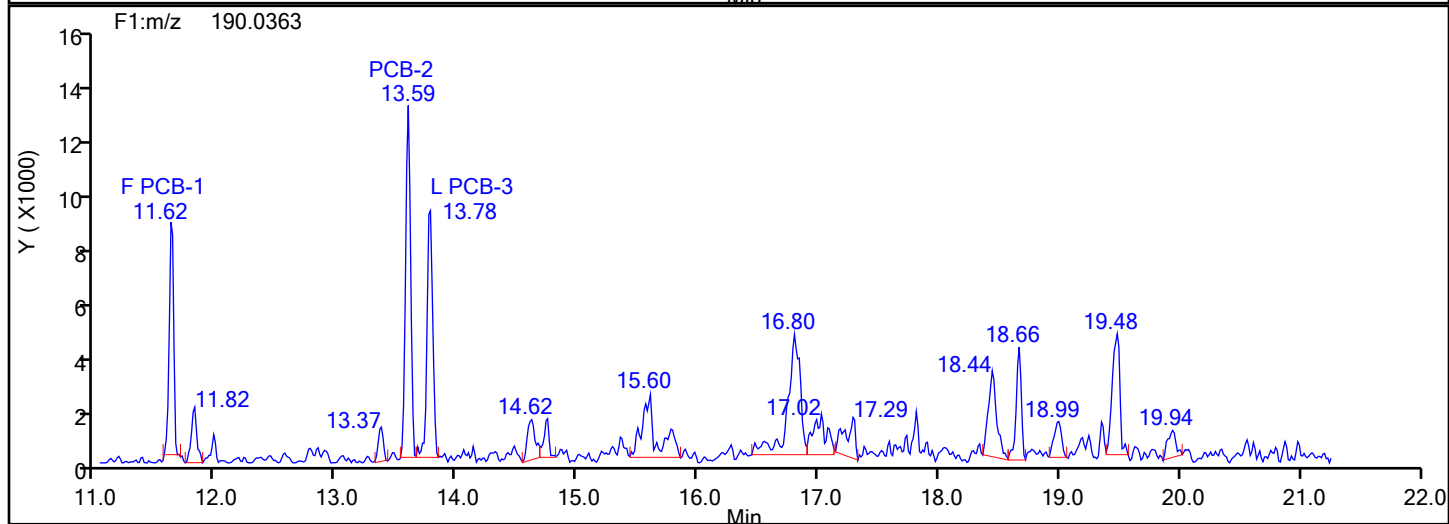
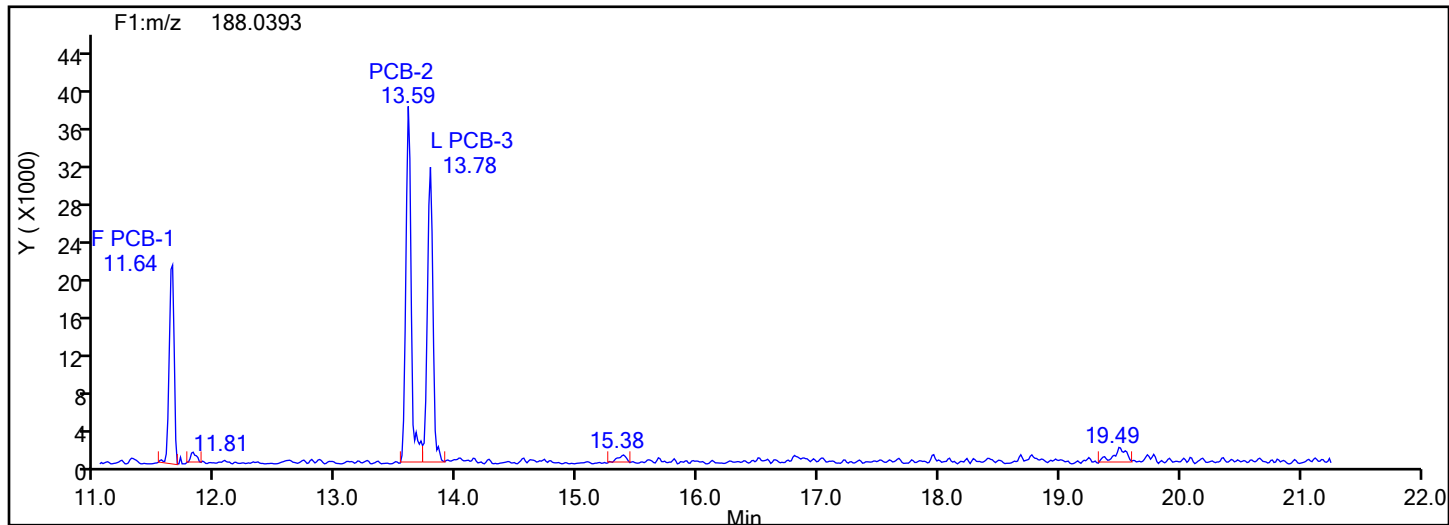


MoPCB F1 Standards

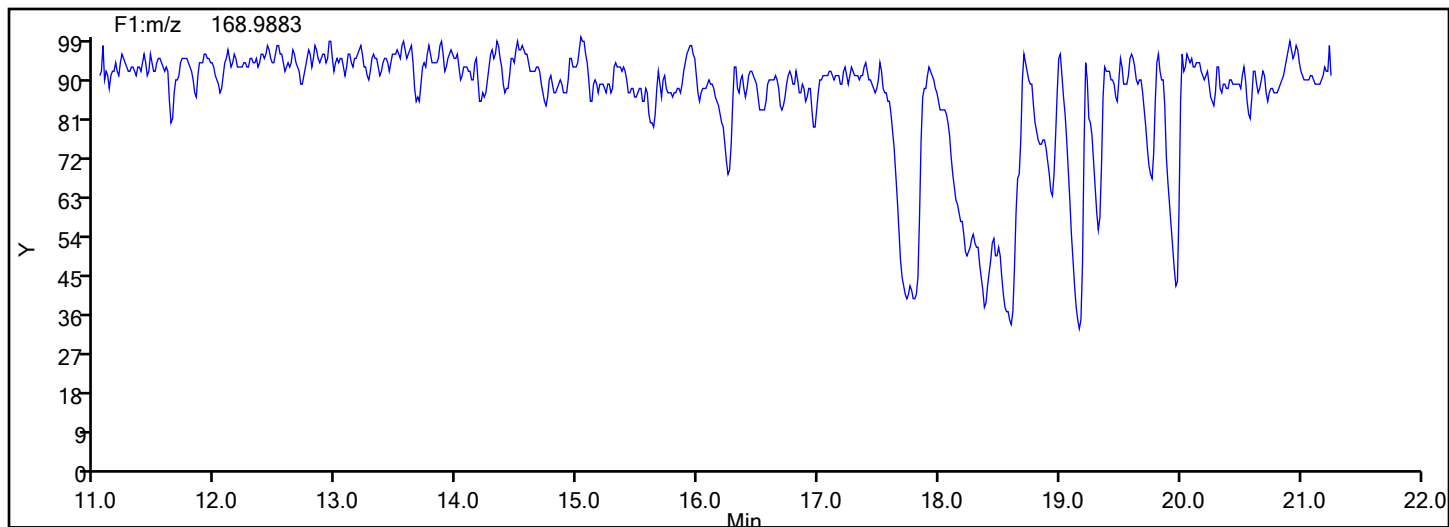


Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

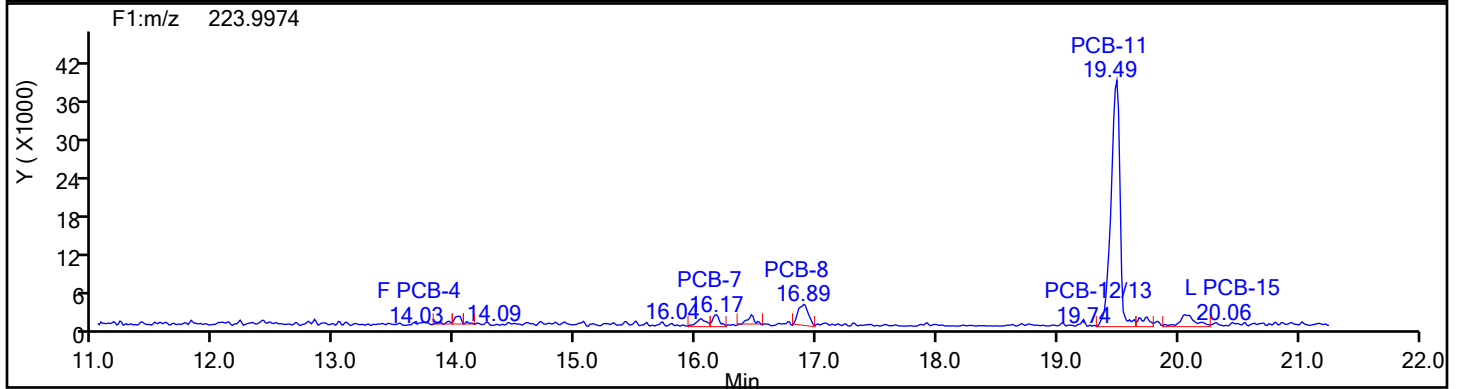
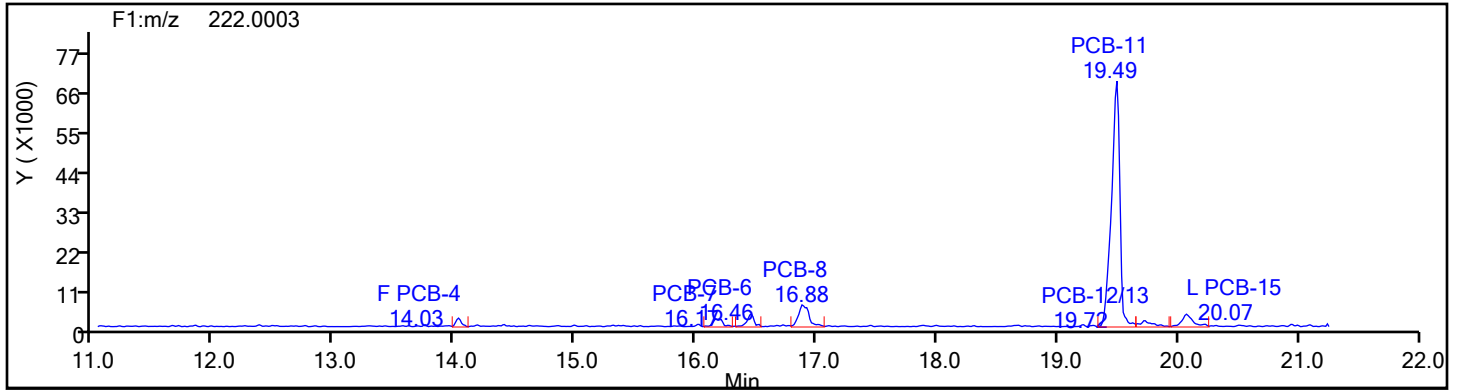


MoPCB F1 Lock Mass

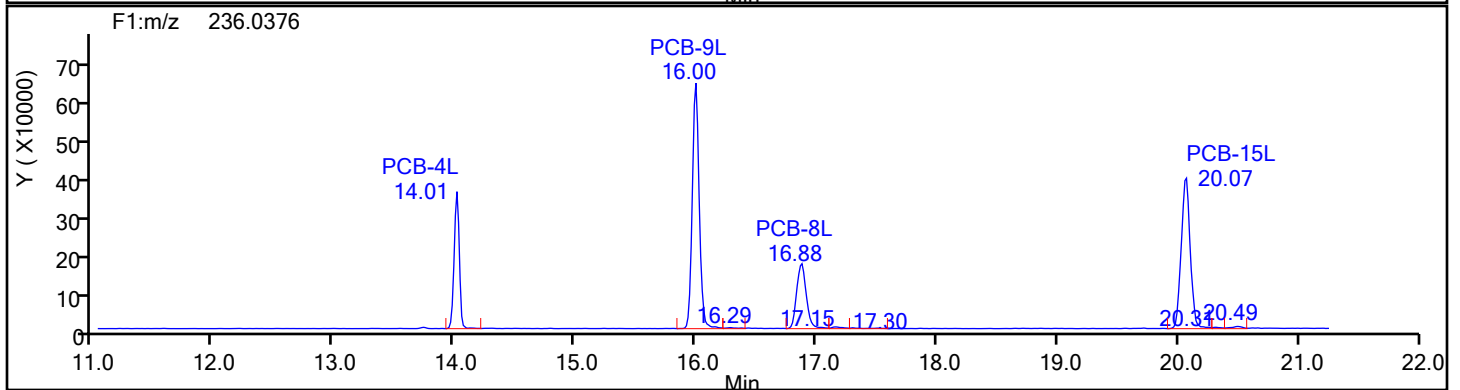
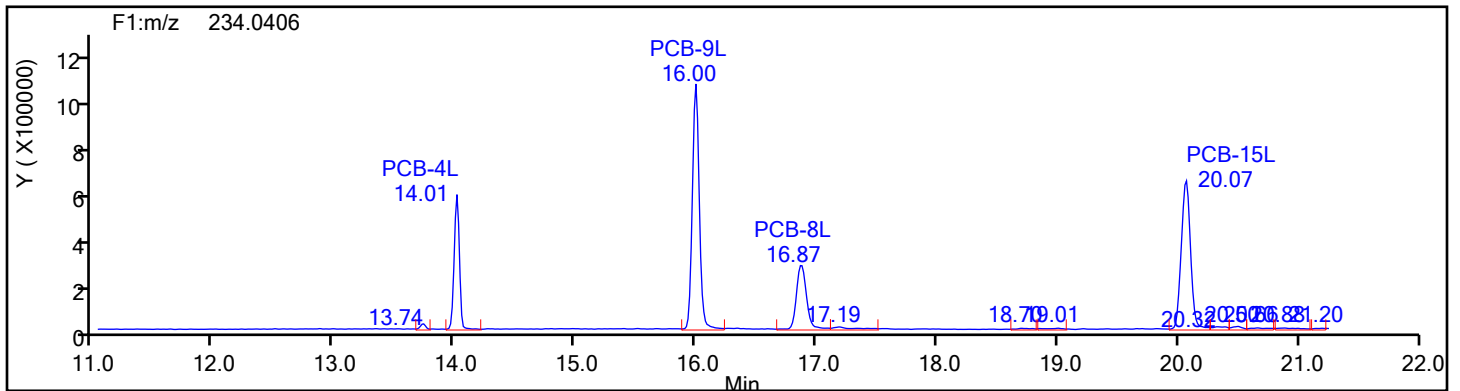


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

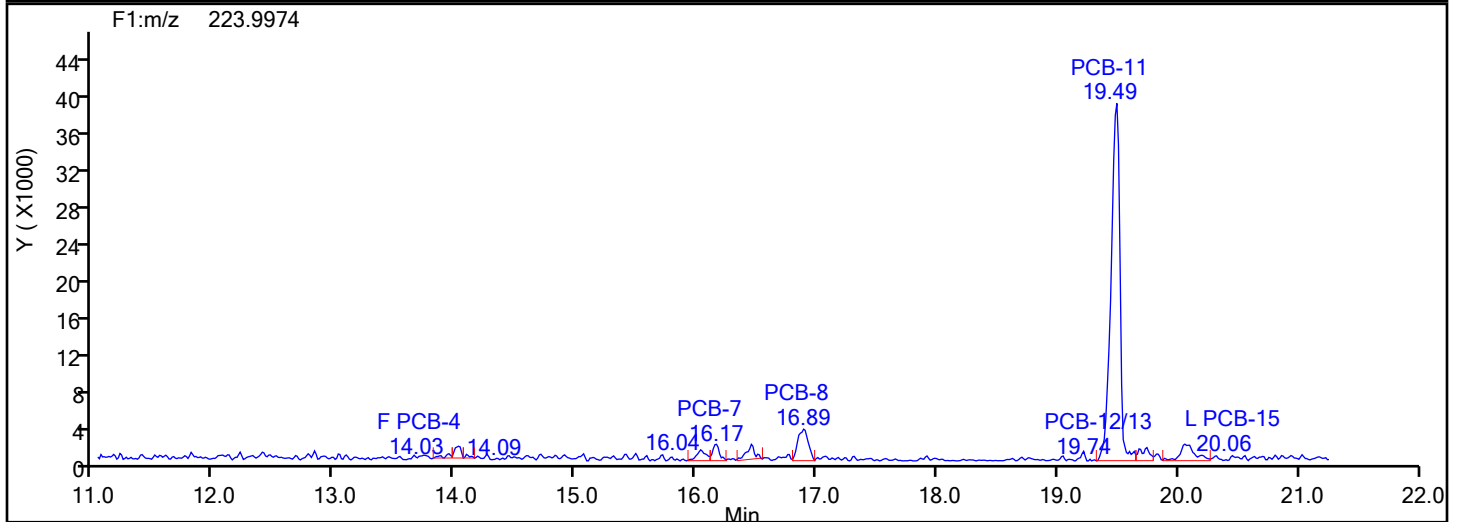
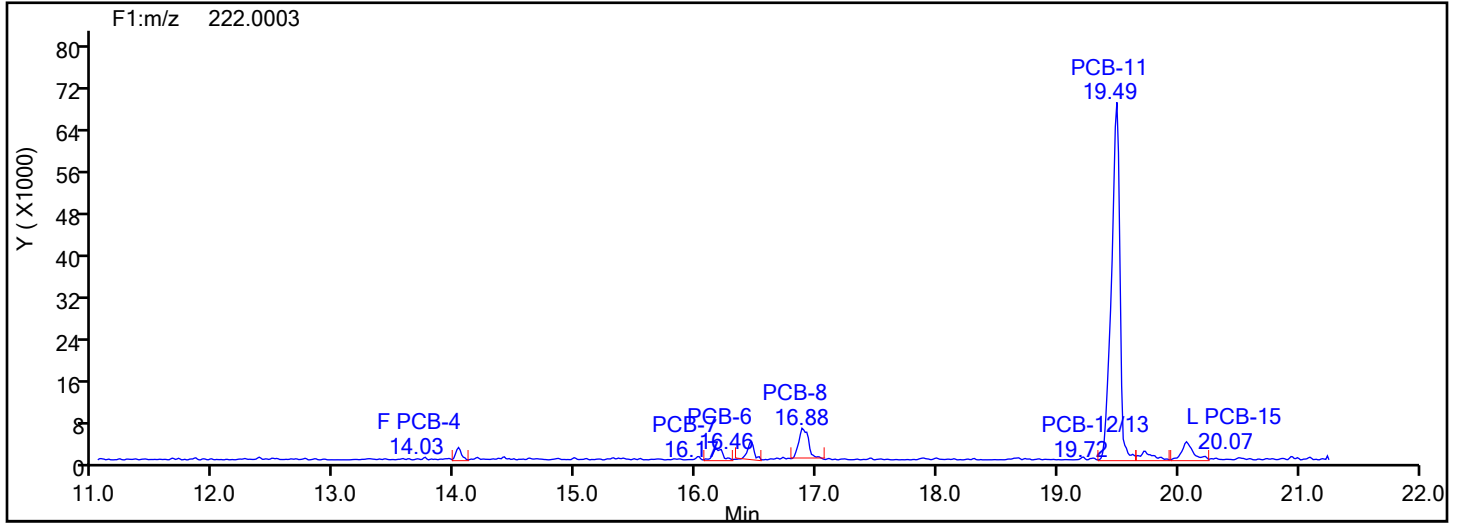


DiPCB F1 Standards

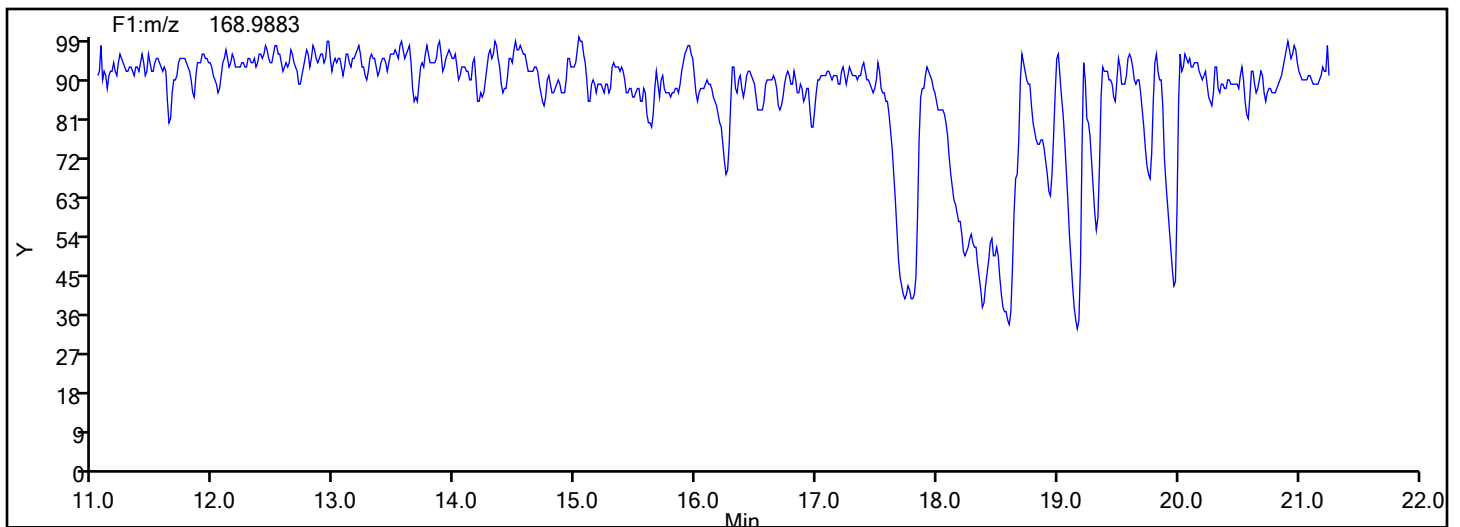


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

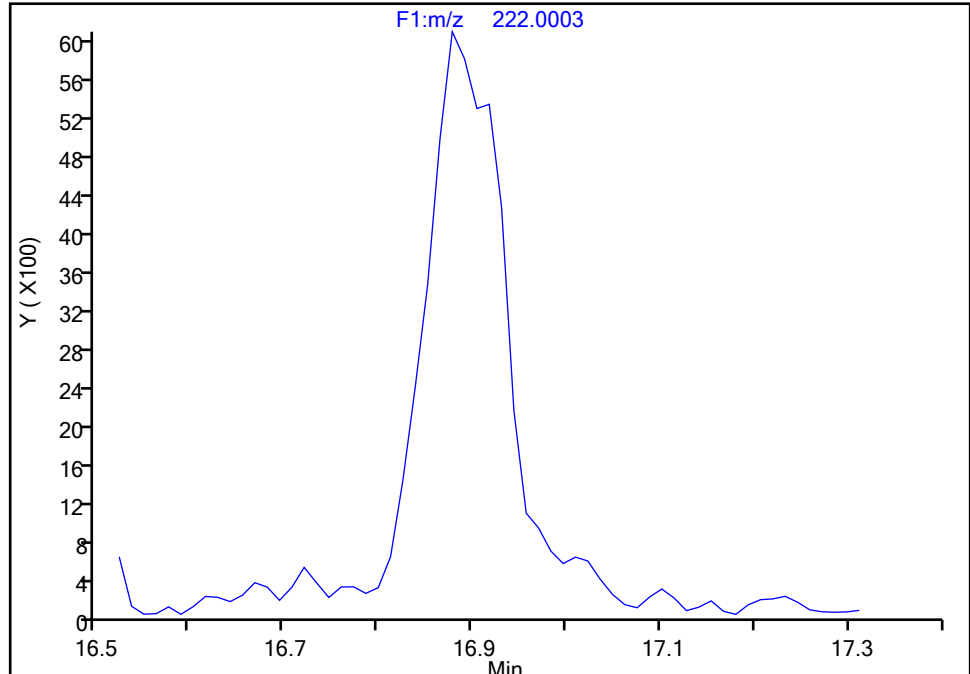
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Injection Date: 16-Jul-2024 08:02:00 Instrument ID: D2D
Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

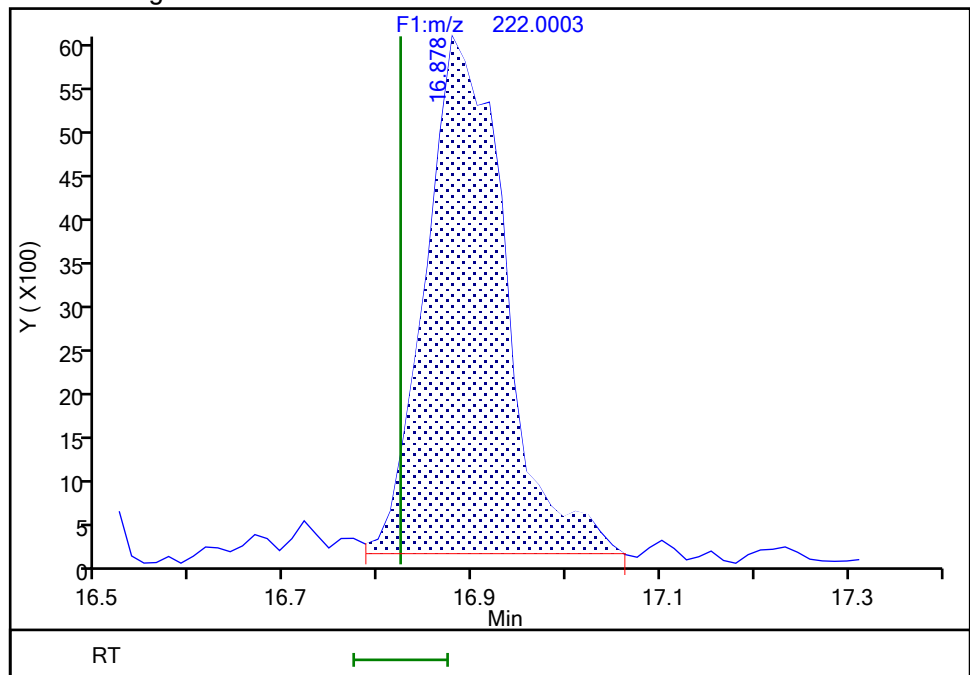
Not Detected
Expected RT: 16.82

Processing Integration Results



RT: 16.88
Area: 35170
Amount: 0.847498
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:07:56 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

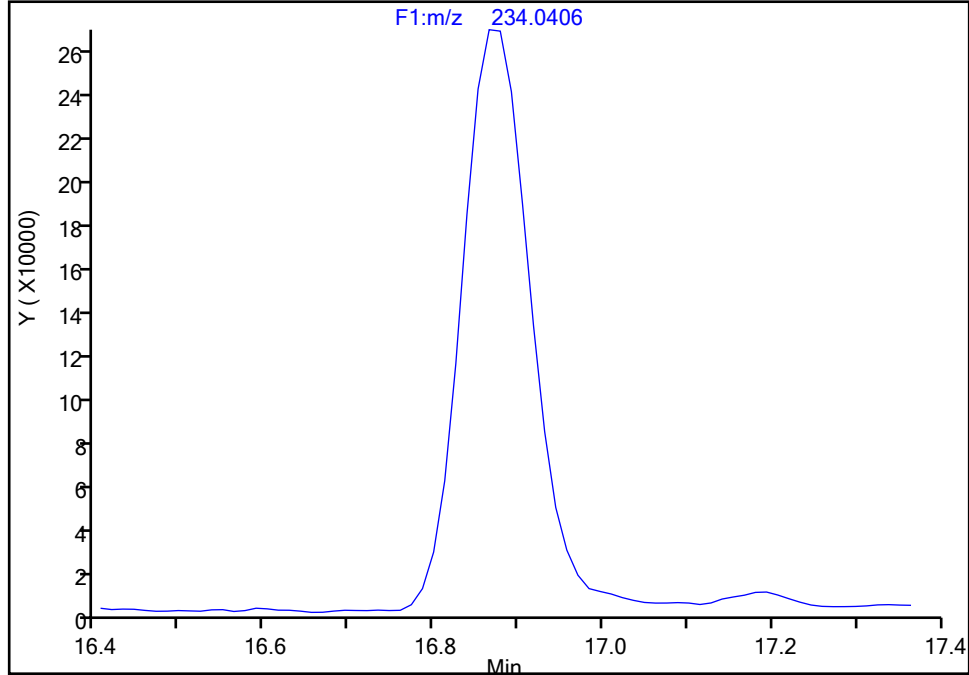
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

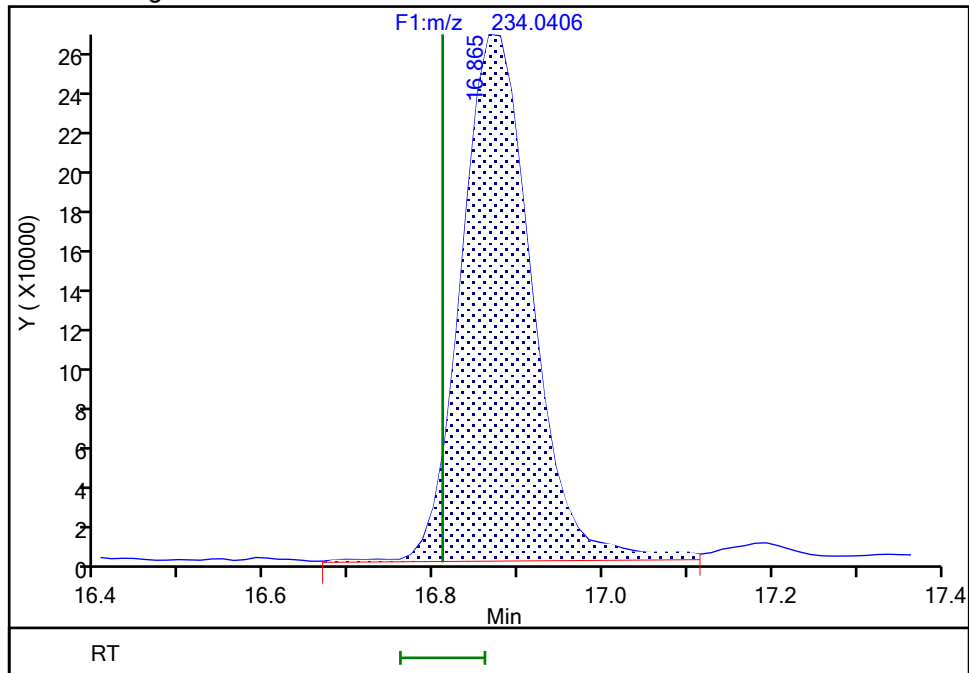
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.87
Area: 1545921
Amount: 50.661777
Amount Units: pg/ul

Manual Integration Results



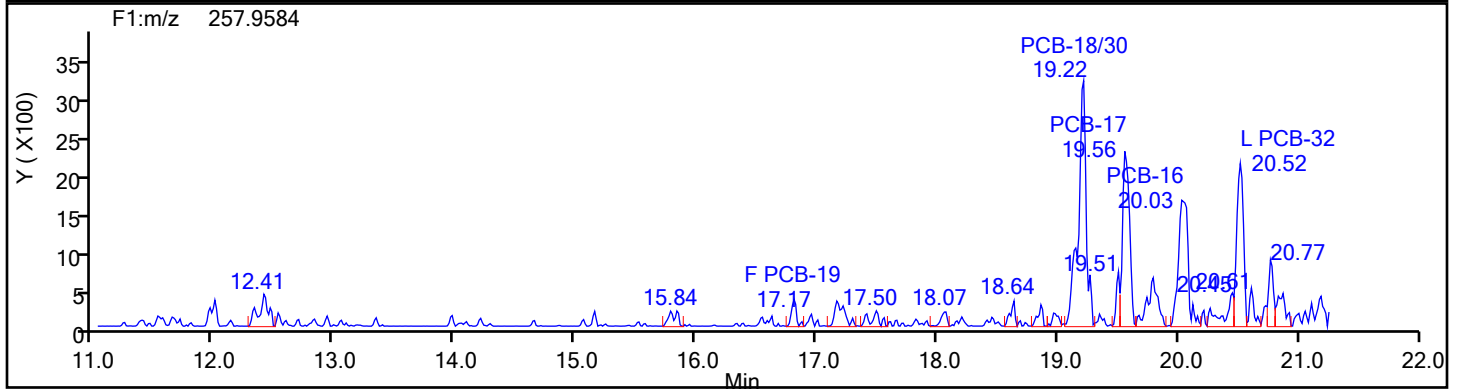
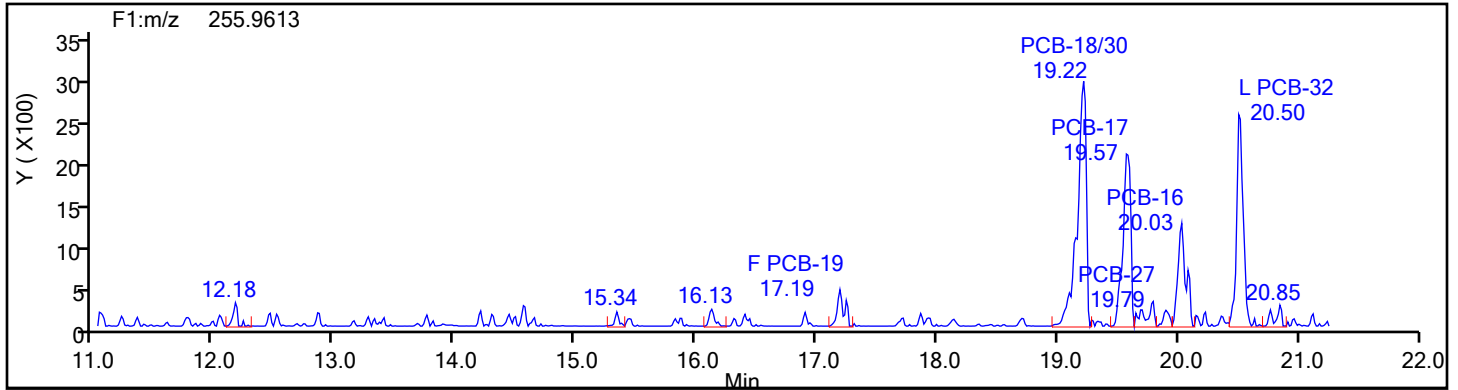
Reviewer: V4XA, 17-Jul-2024 00:06:55 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

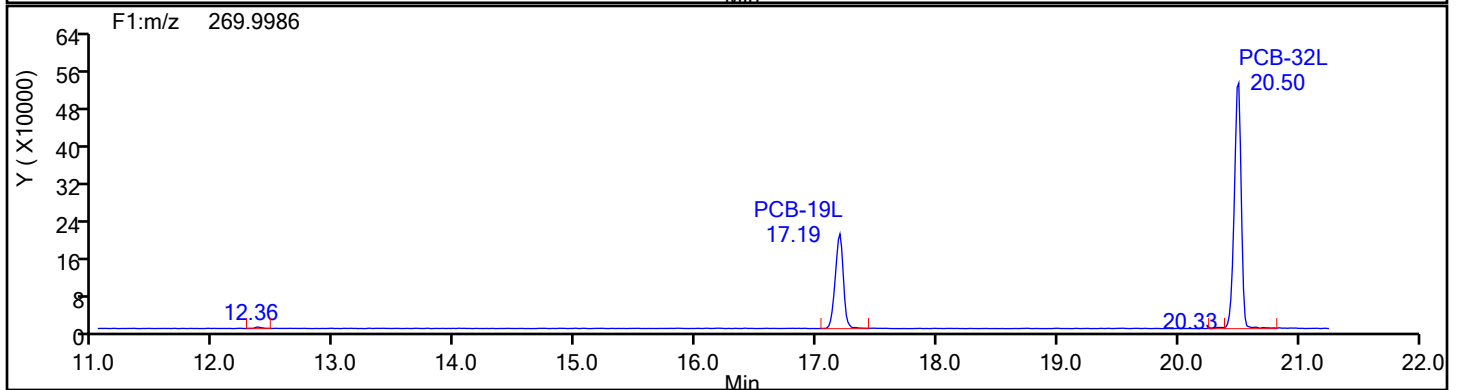
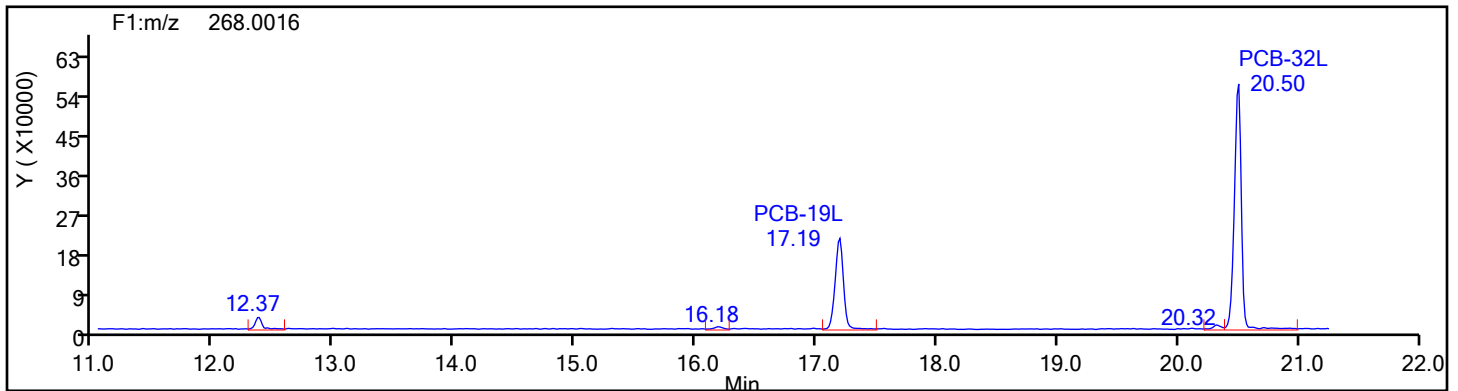
Audit Reason: Peak assignment corrected

Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

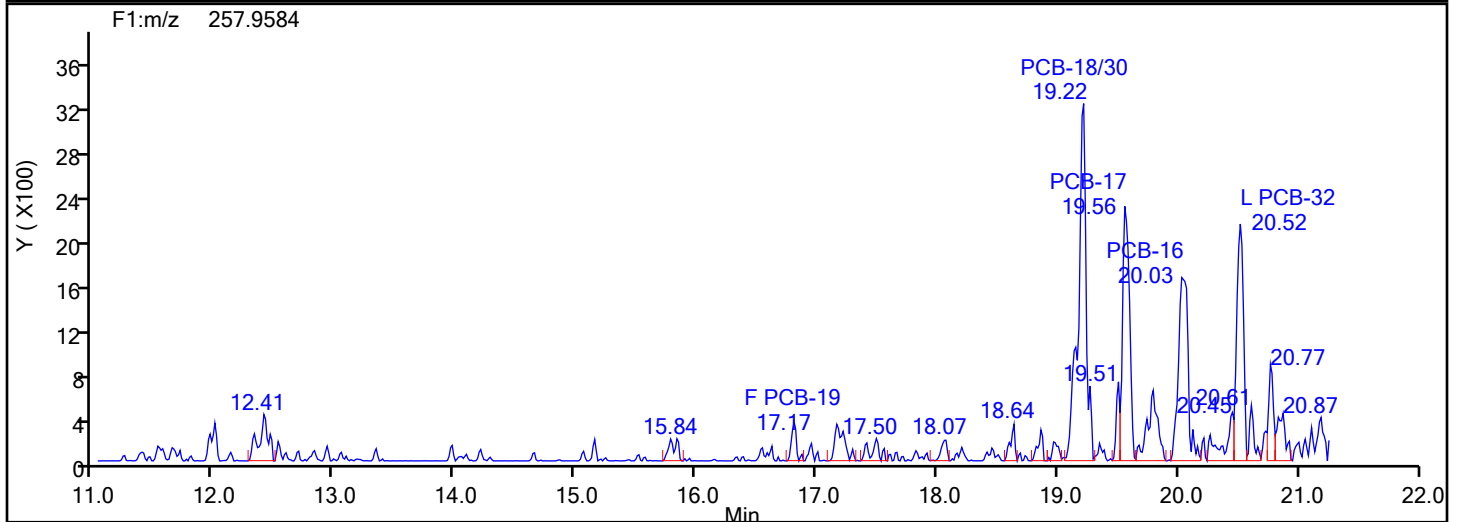
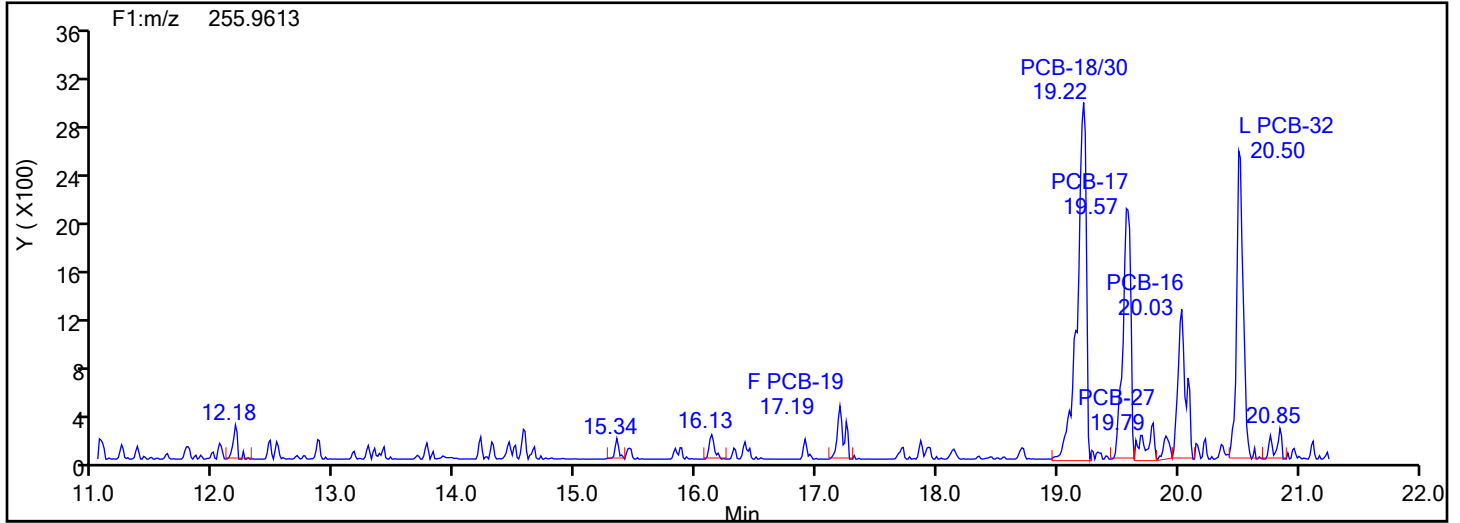


TriPCB F1 Standards

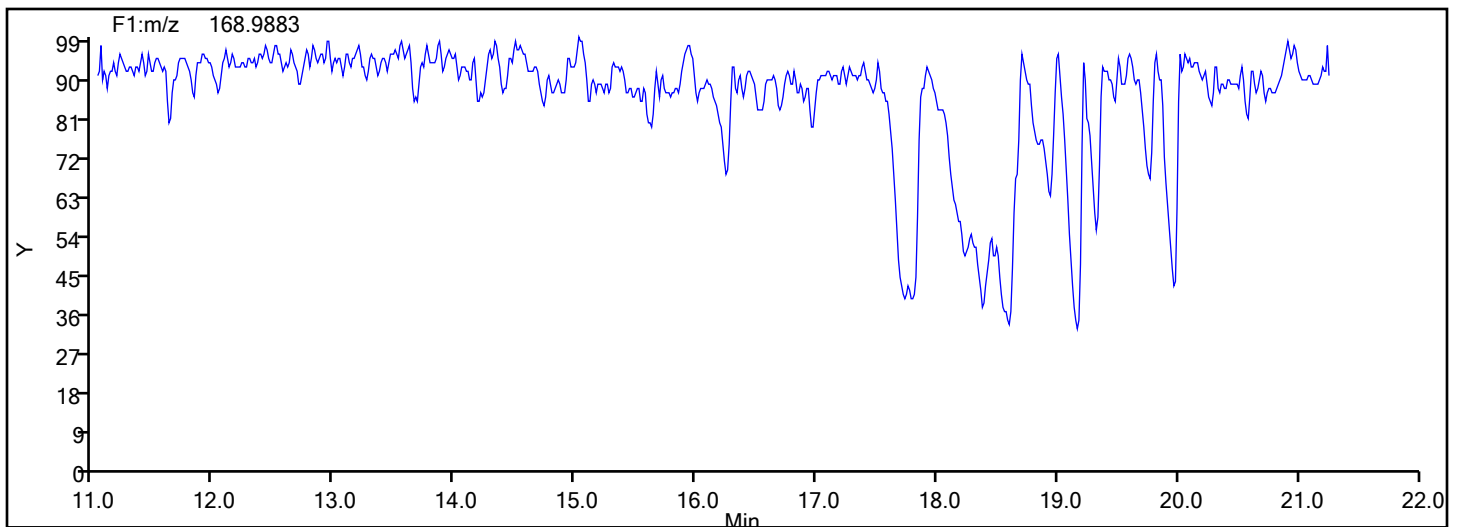


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

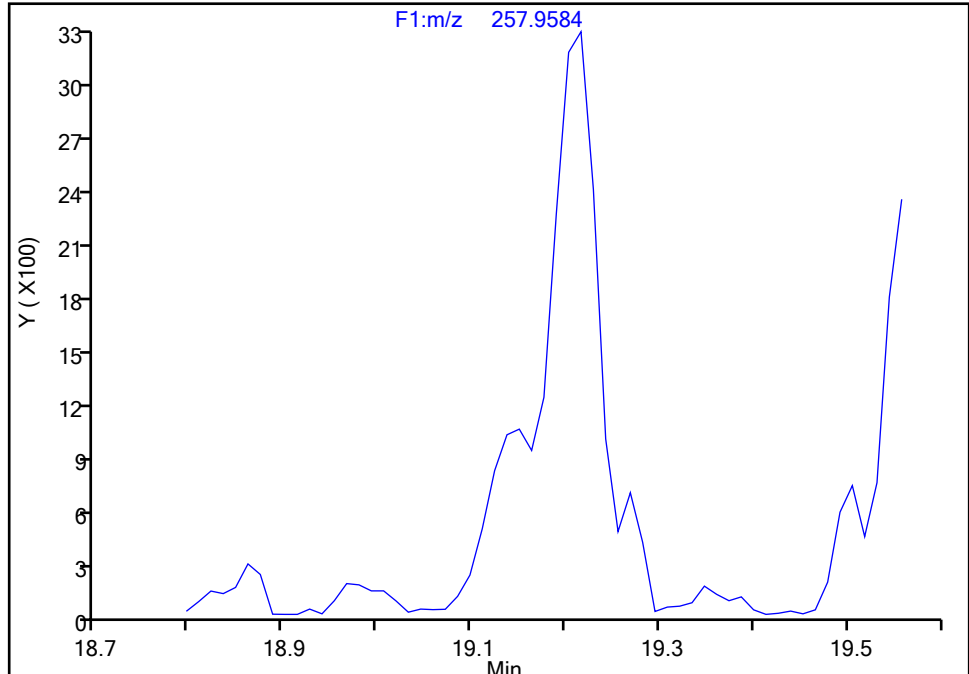
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Injection Date: 16-Jul-2024 08:02:00 Instrument ID: D2D
Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

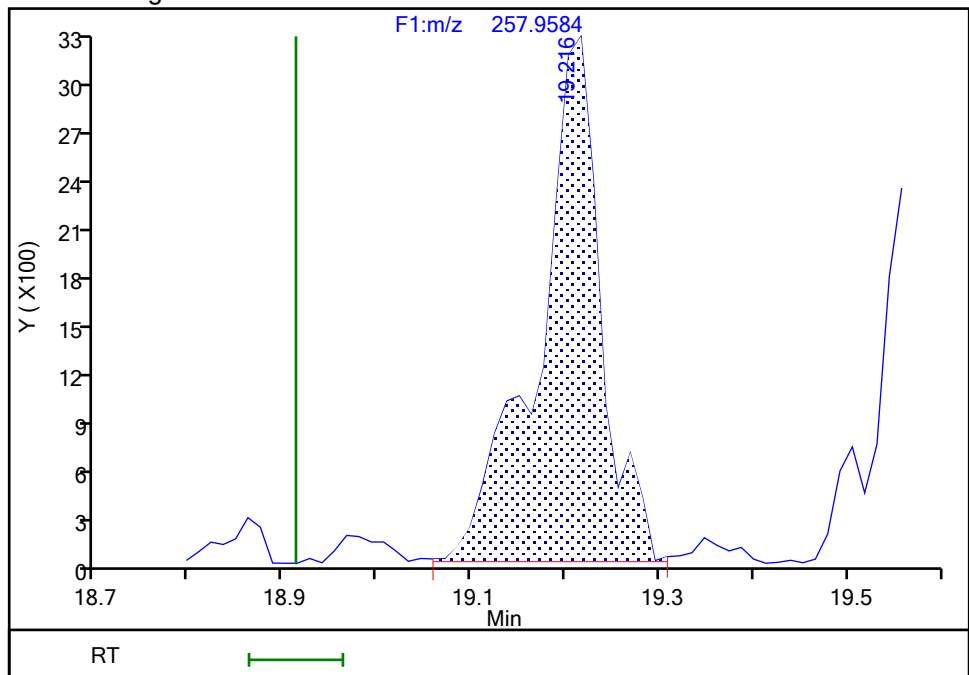
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.22
Area: 14961
Amount: 0.891838
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:08:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

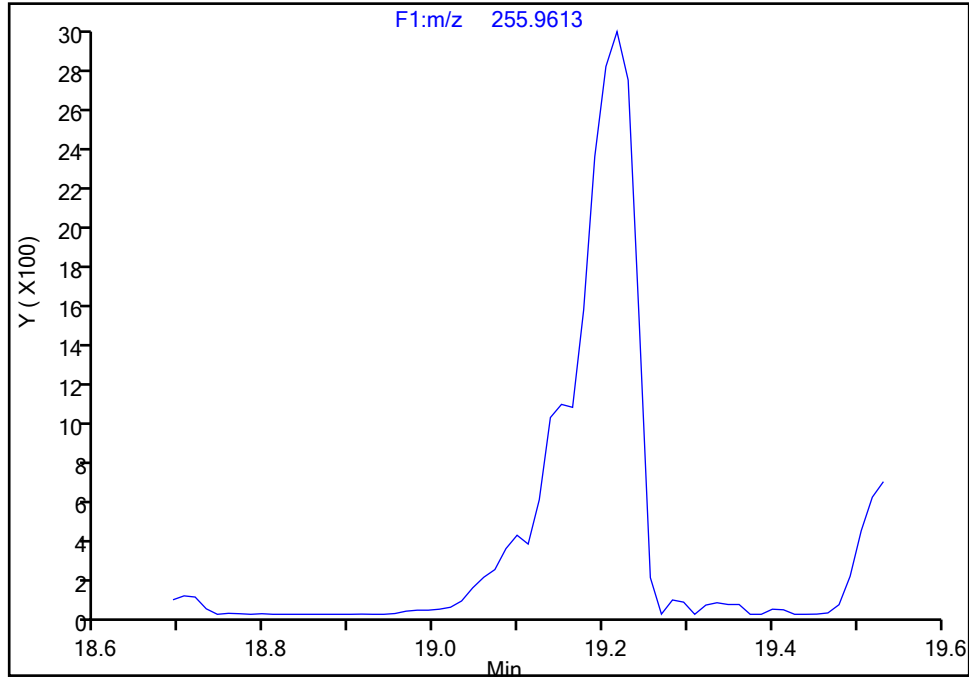
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

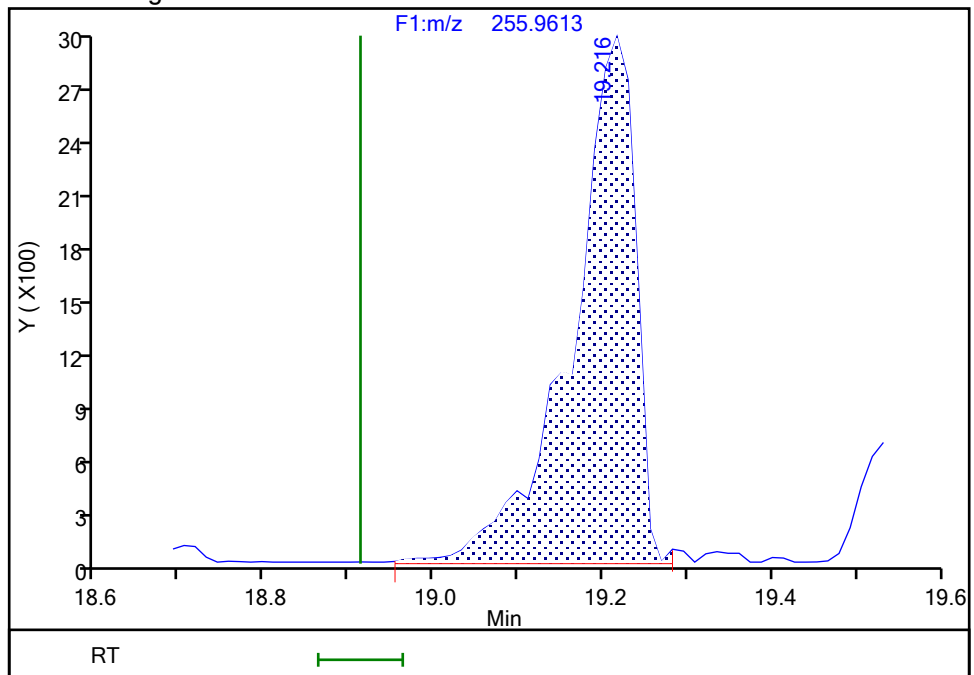
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.22
Area: 15564
Amount: 0.891838
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:09:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1423 of 3050

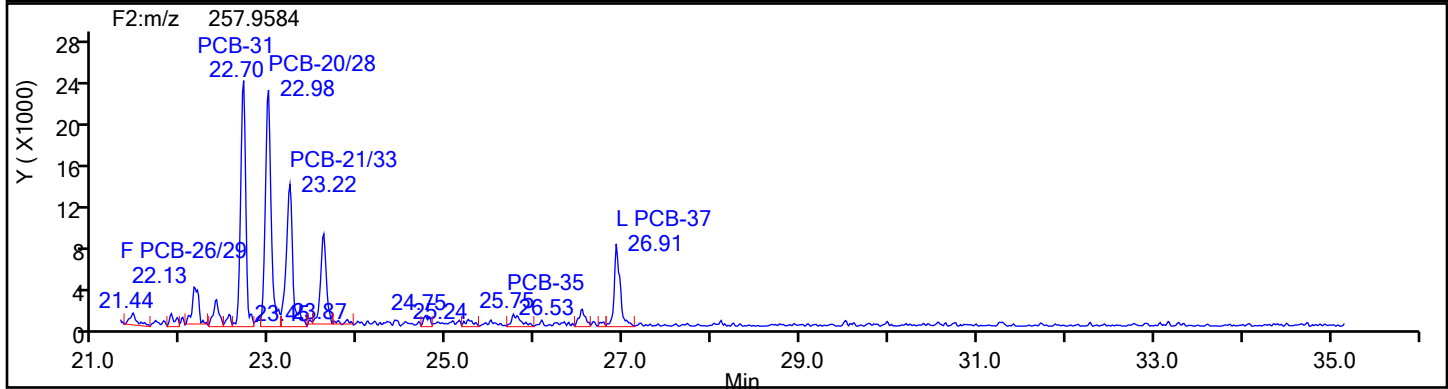
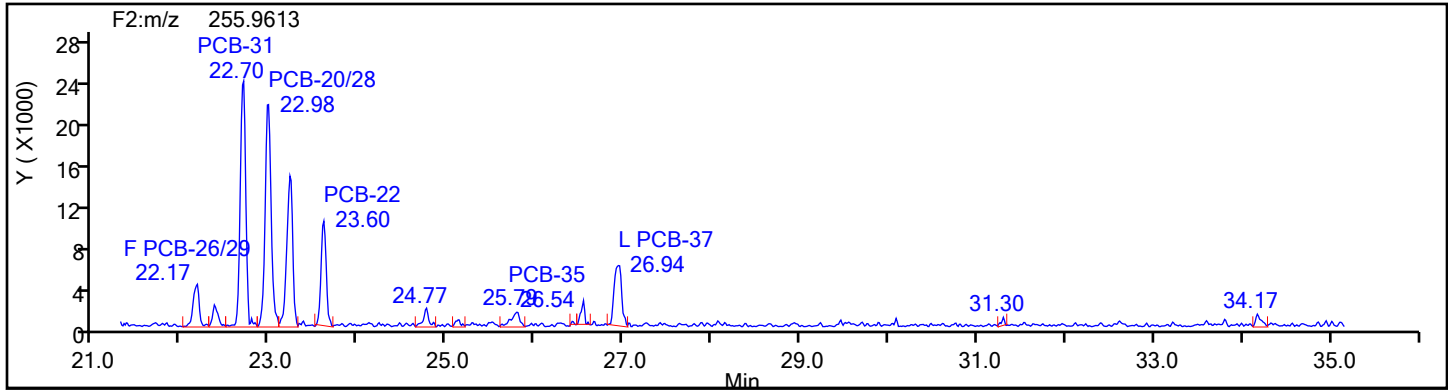
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9/6/2024

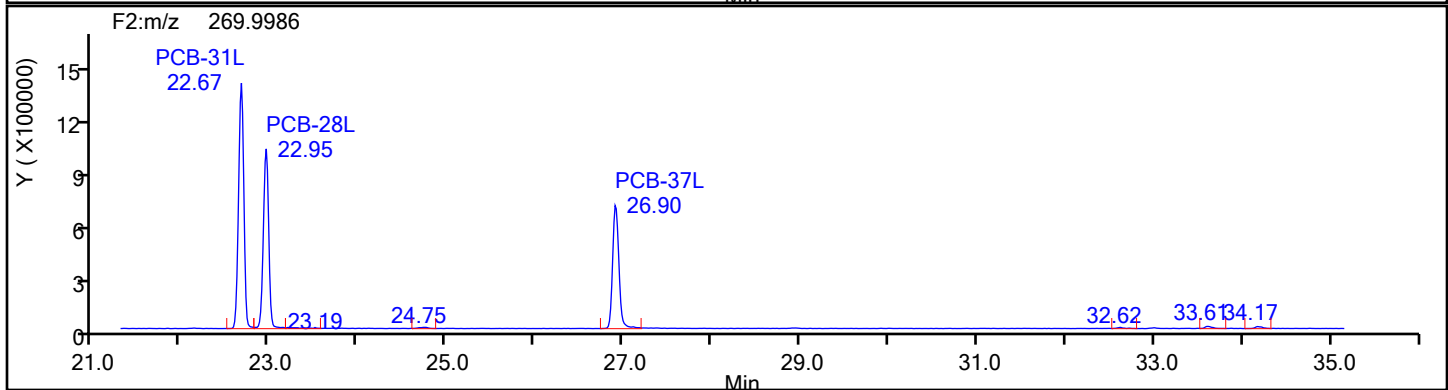
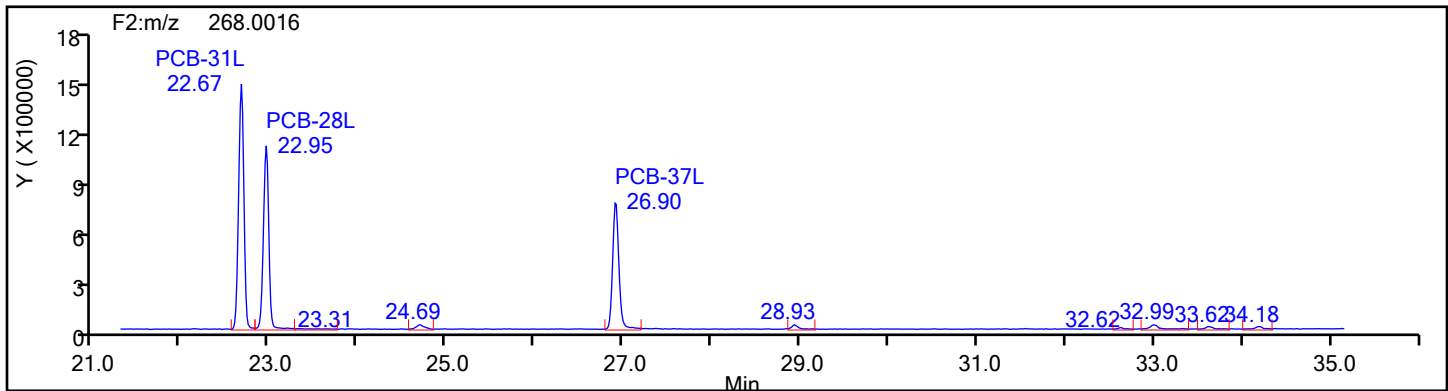
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

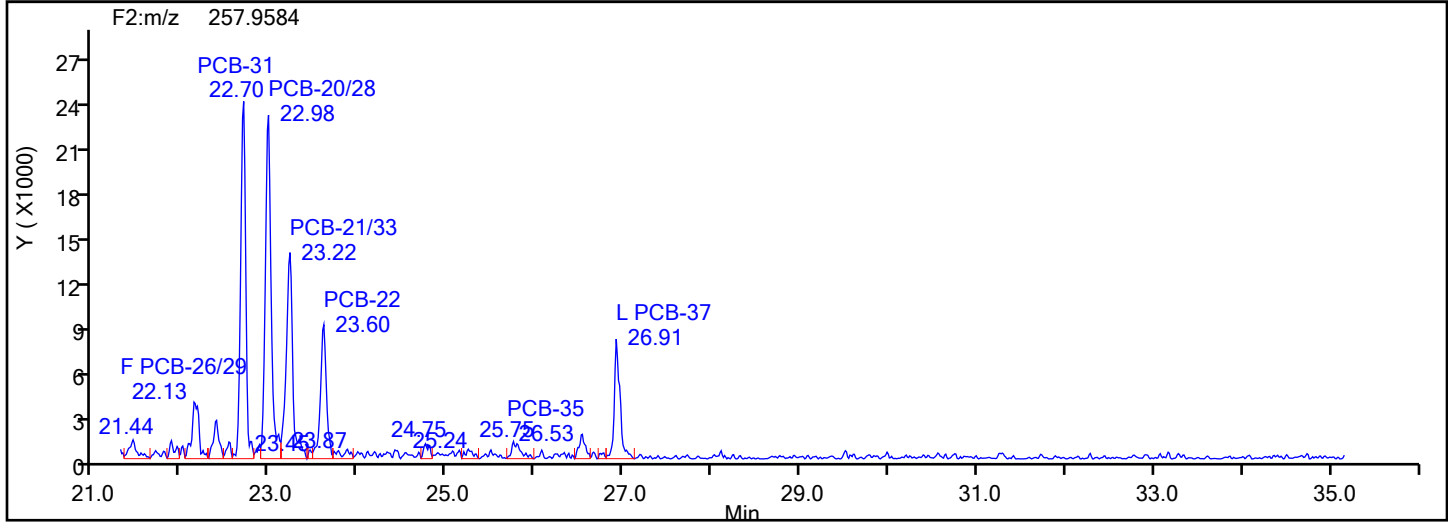
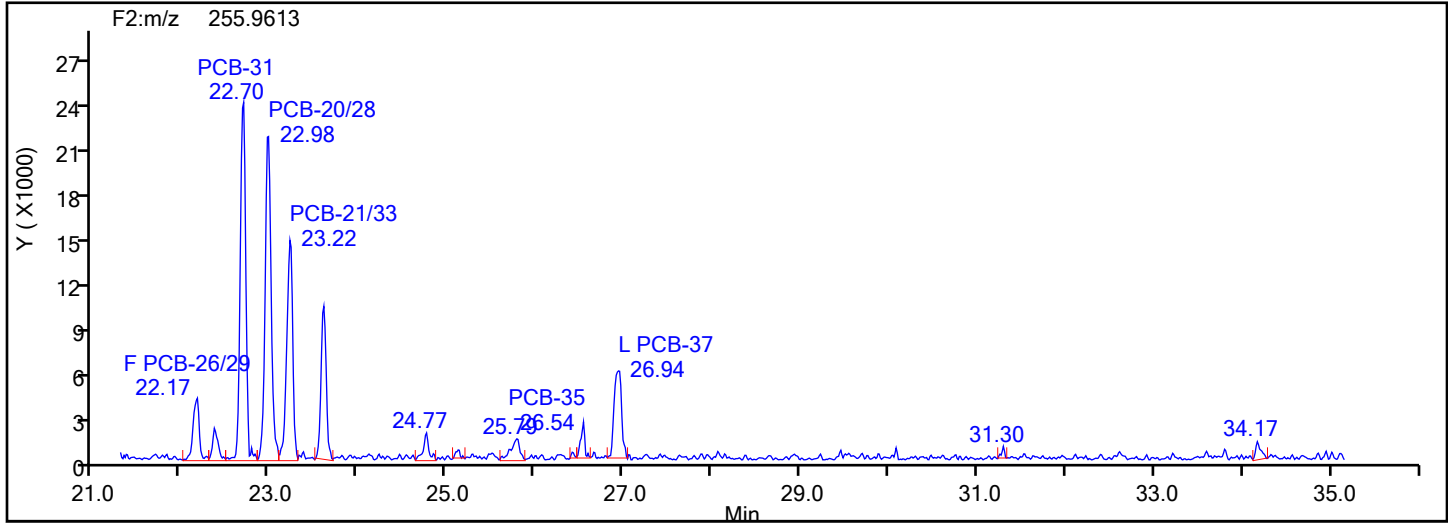


TriPCB F2 Standards

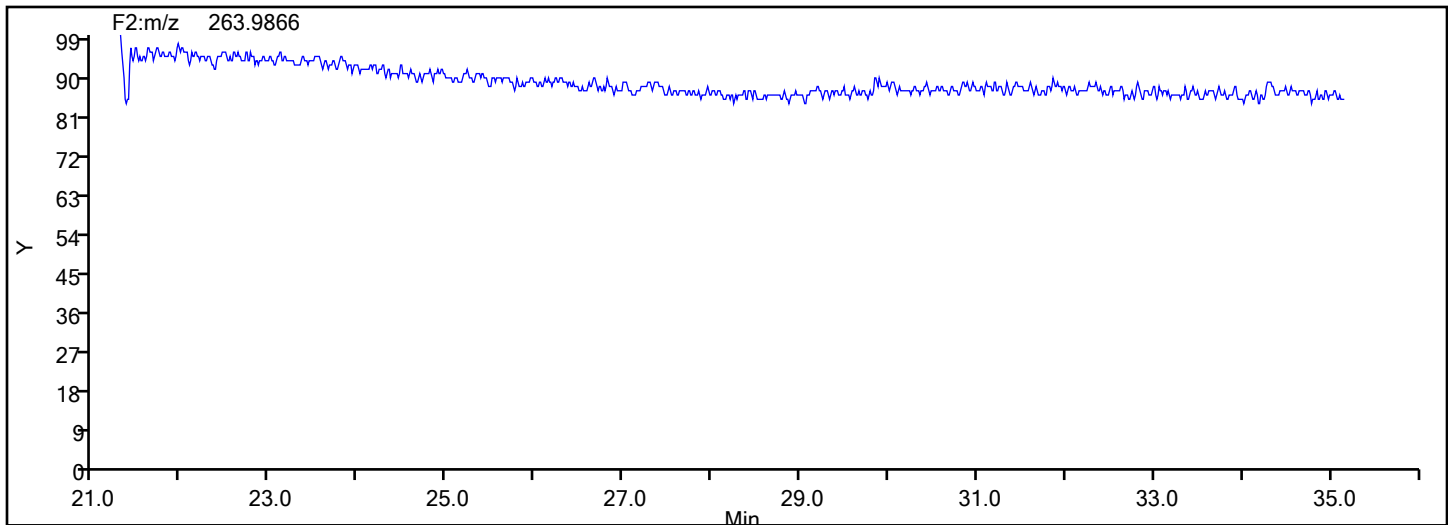


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

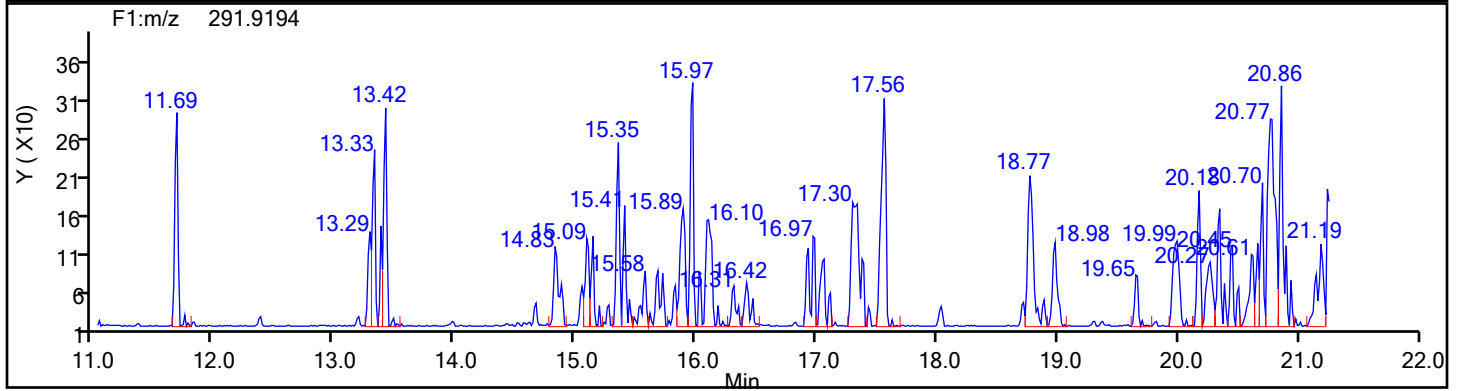
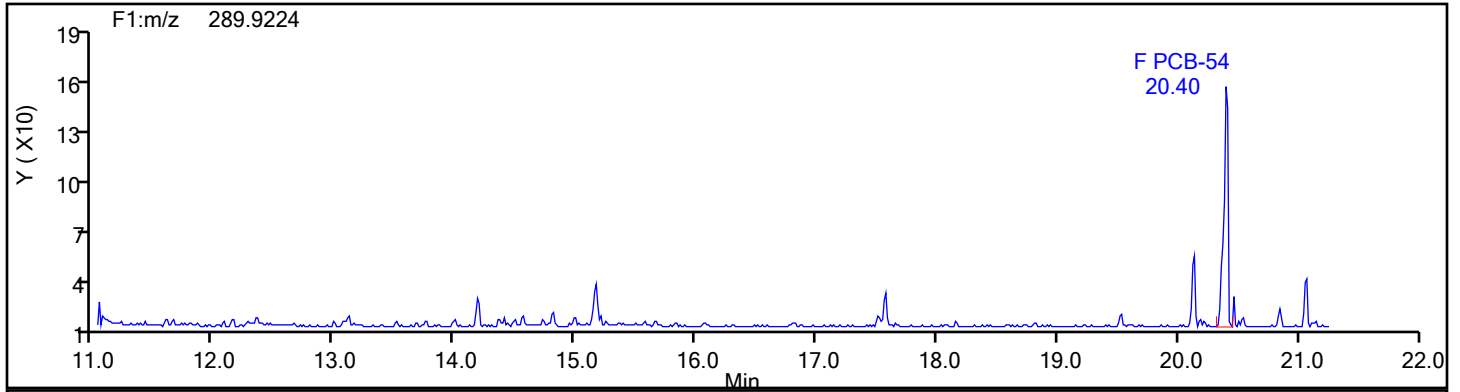


TriPCB F2 Lock Mass

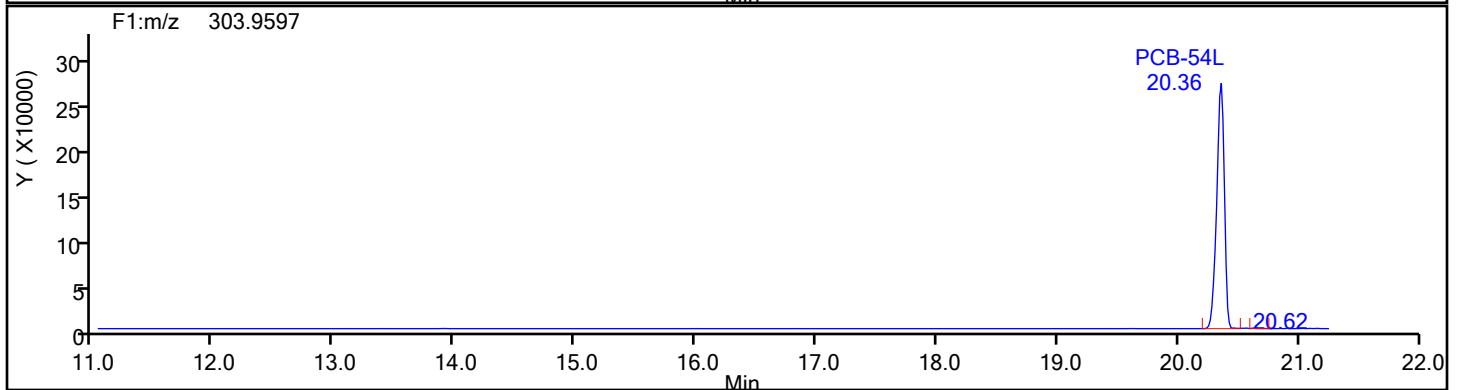
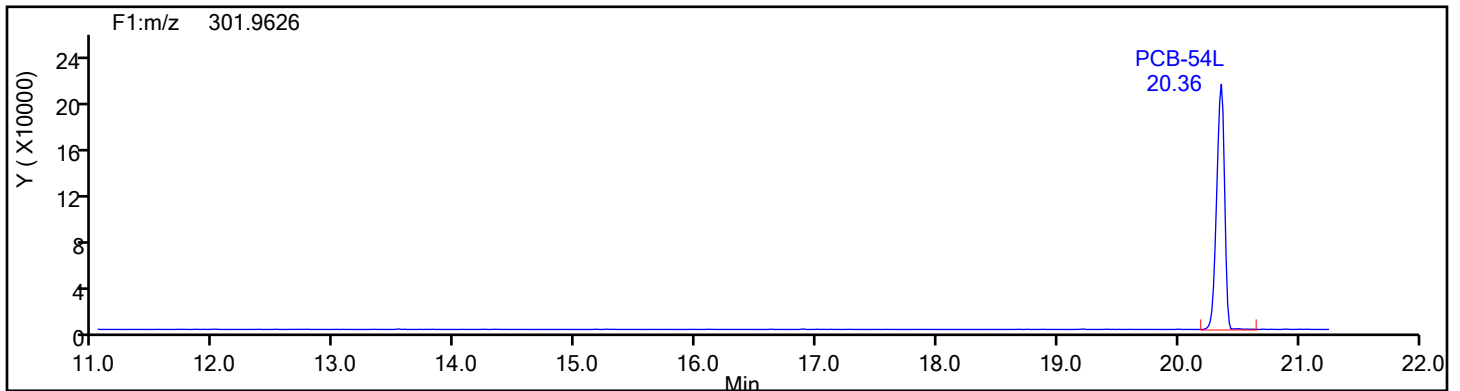


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

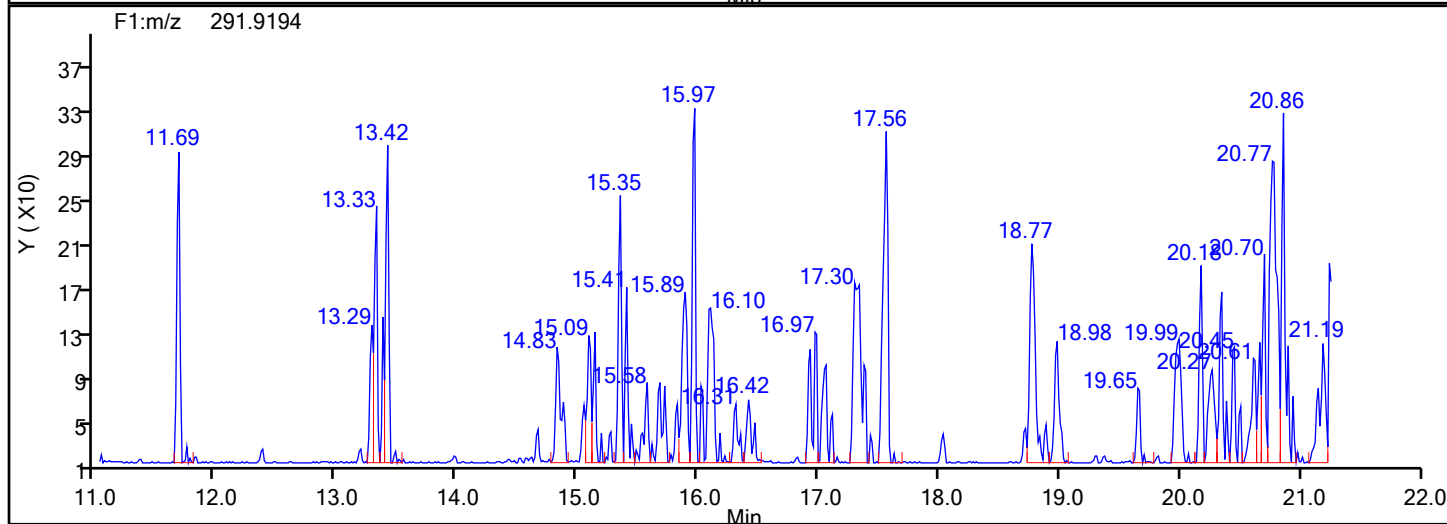
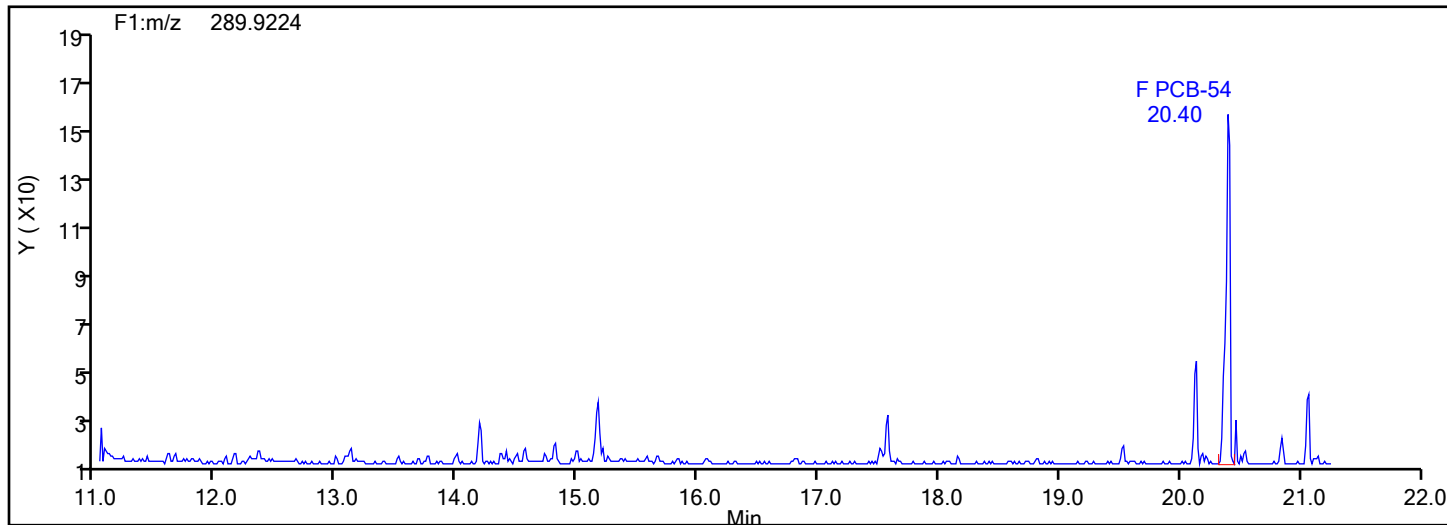


TePCB F1 Standards

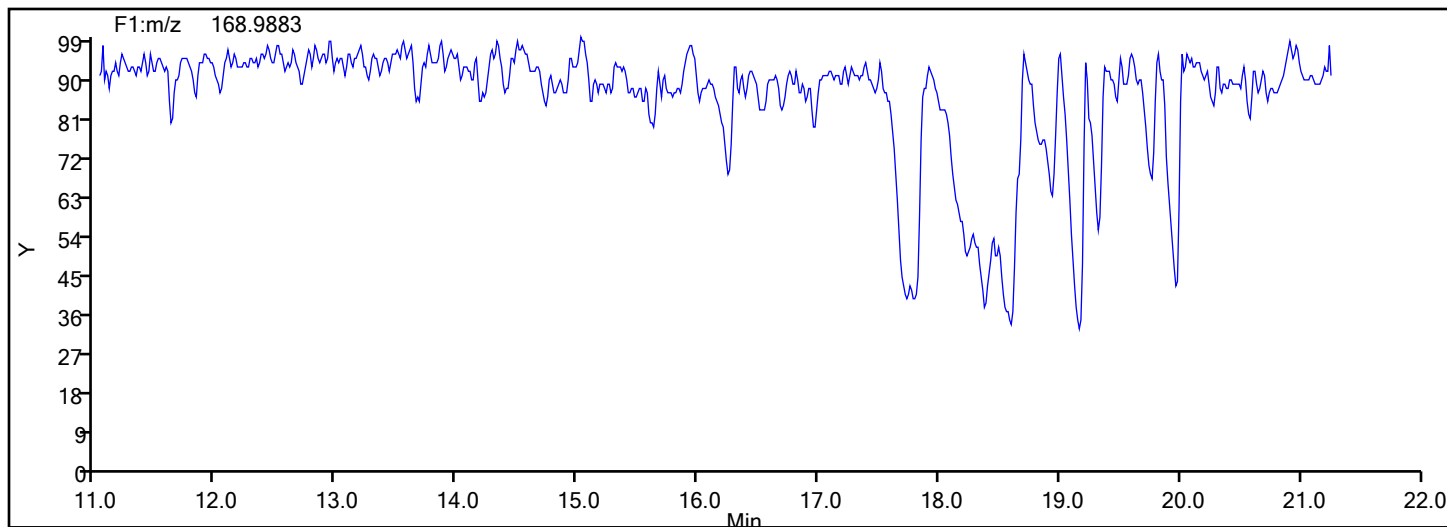


Eurofins Knoxville

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TePCB F1

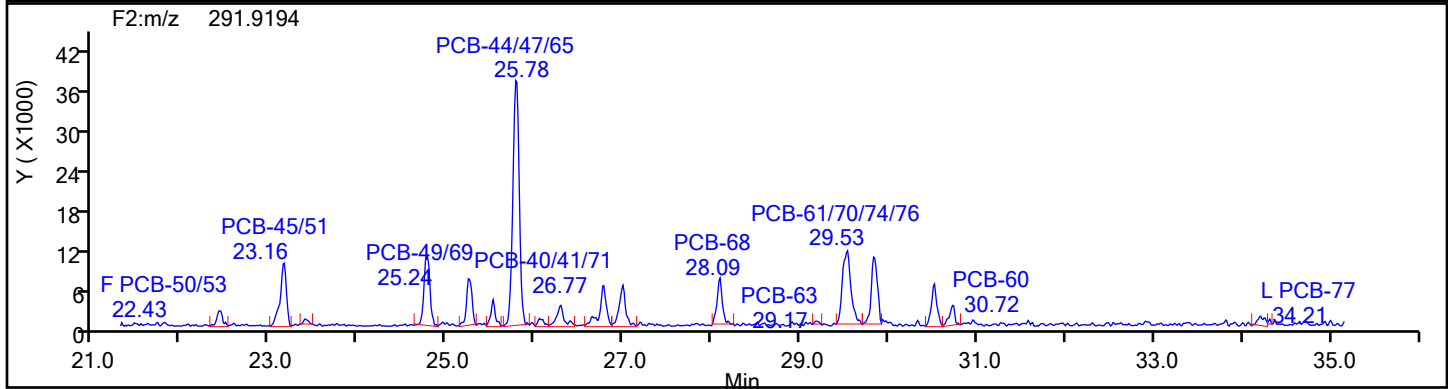
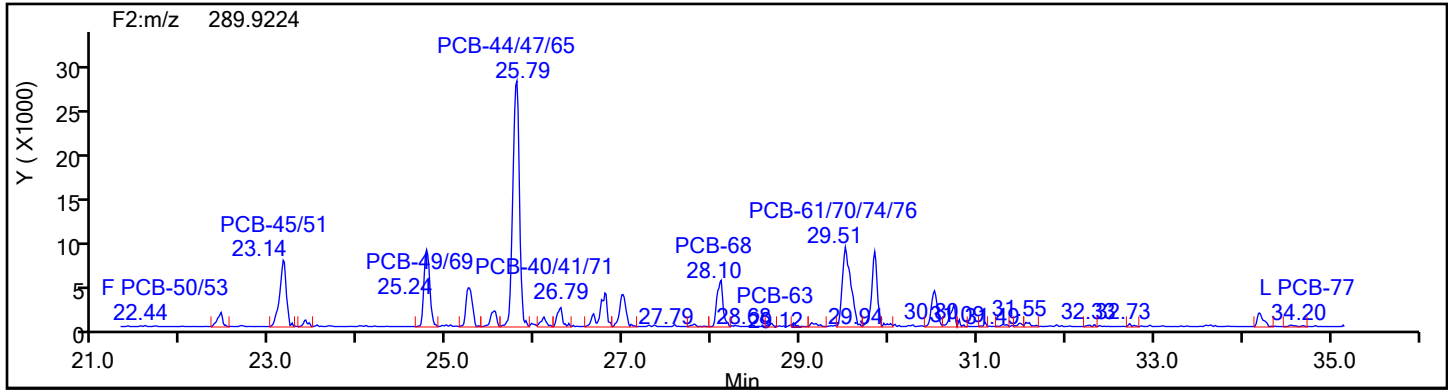


TePCB F1 Lock Mass

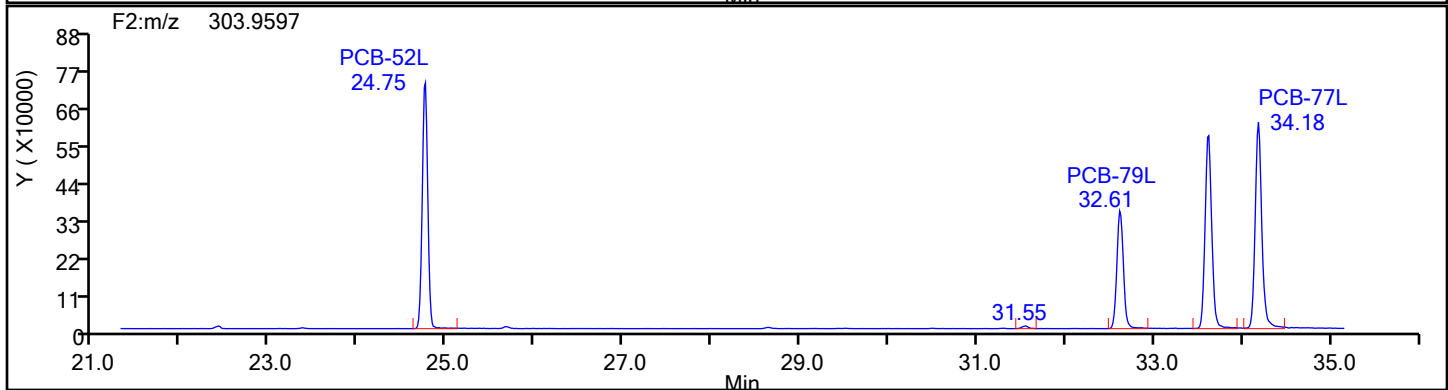
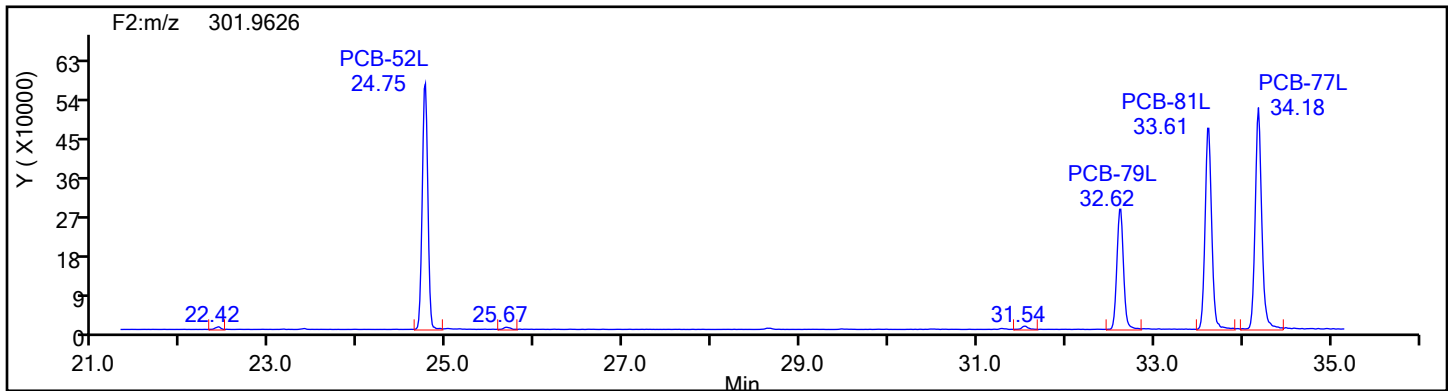


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

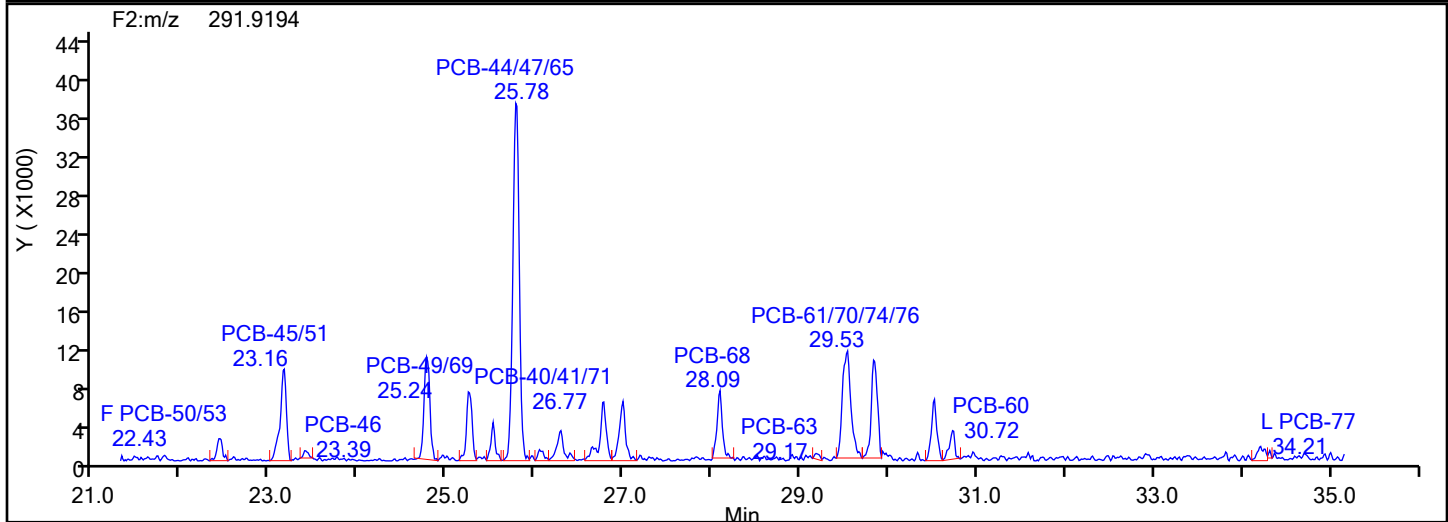
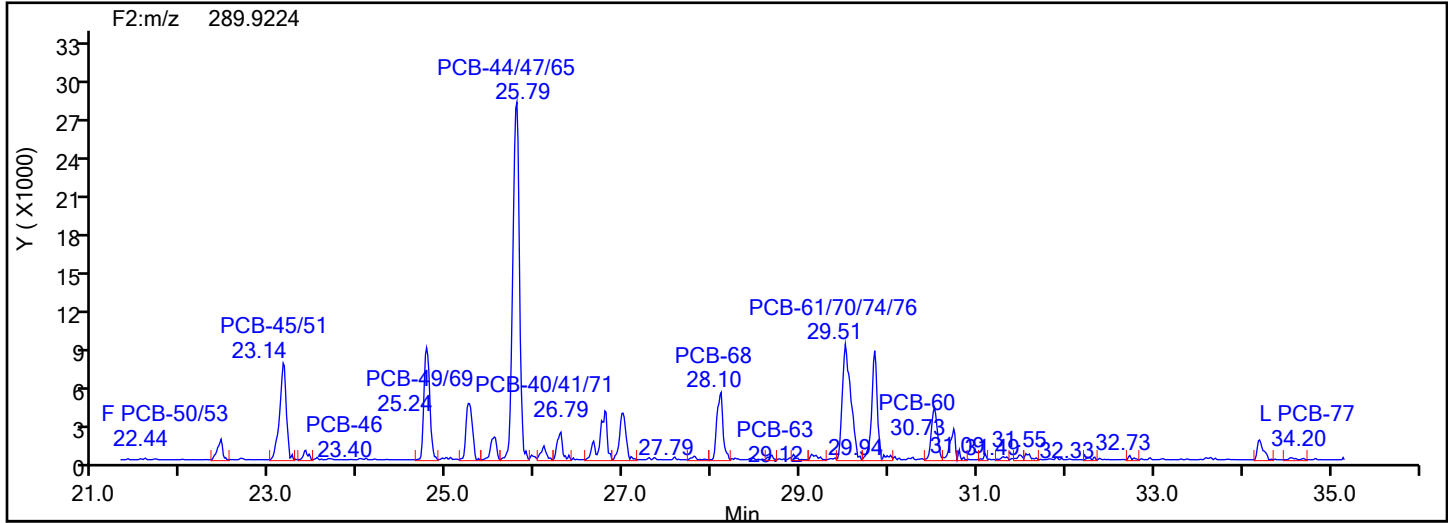


TePCB F2 Standards

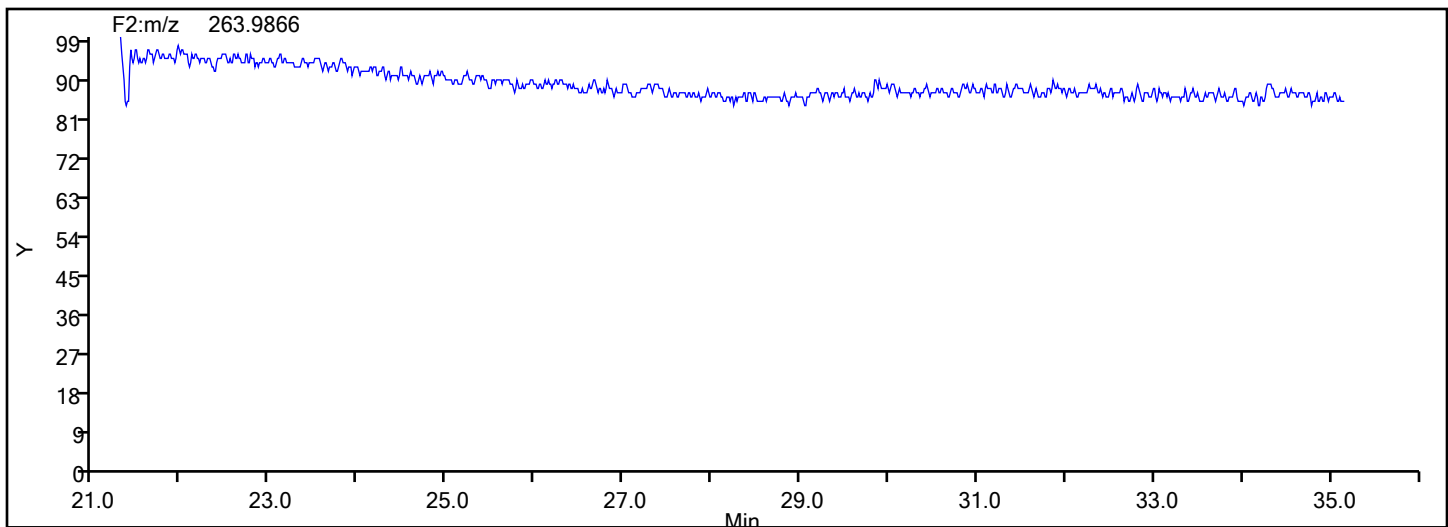


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

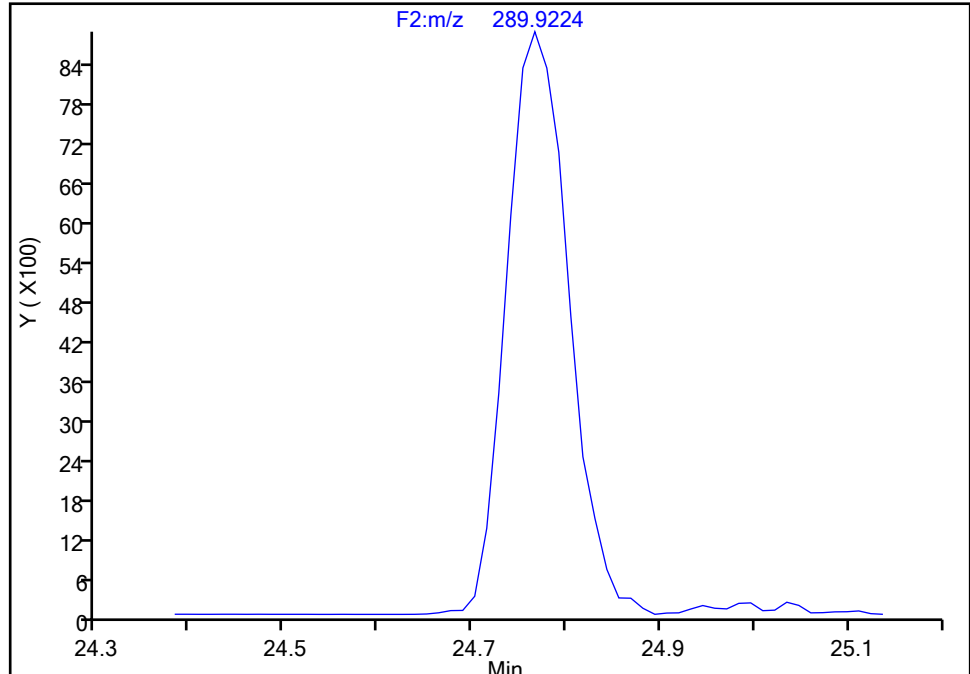
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

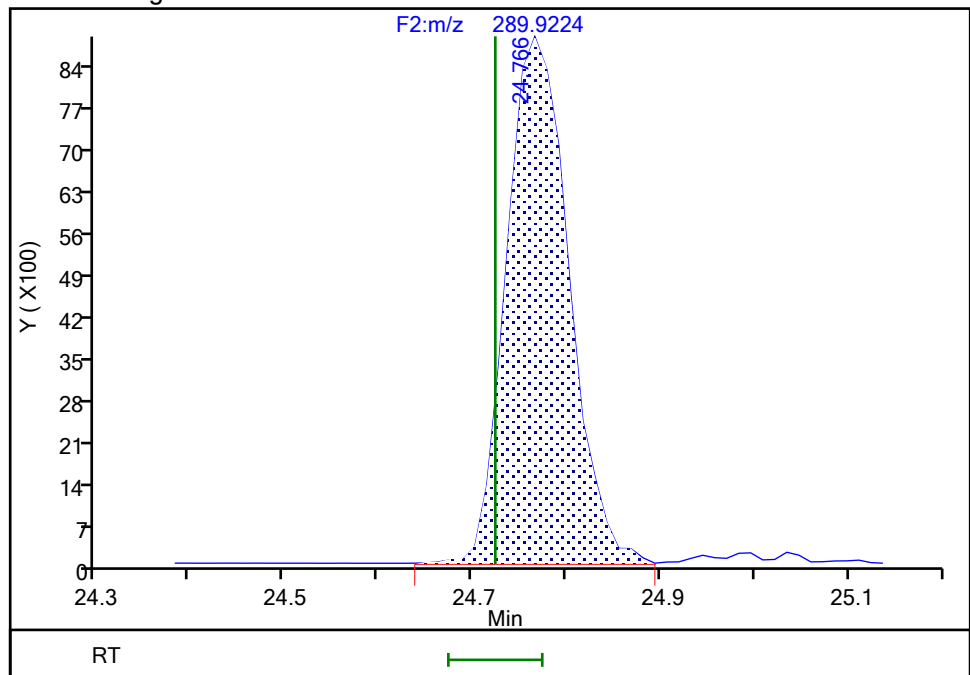
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.77
Area: 40759
Amount: 1.742463
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:11:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

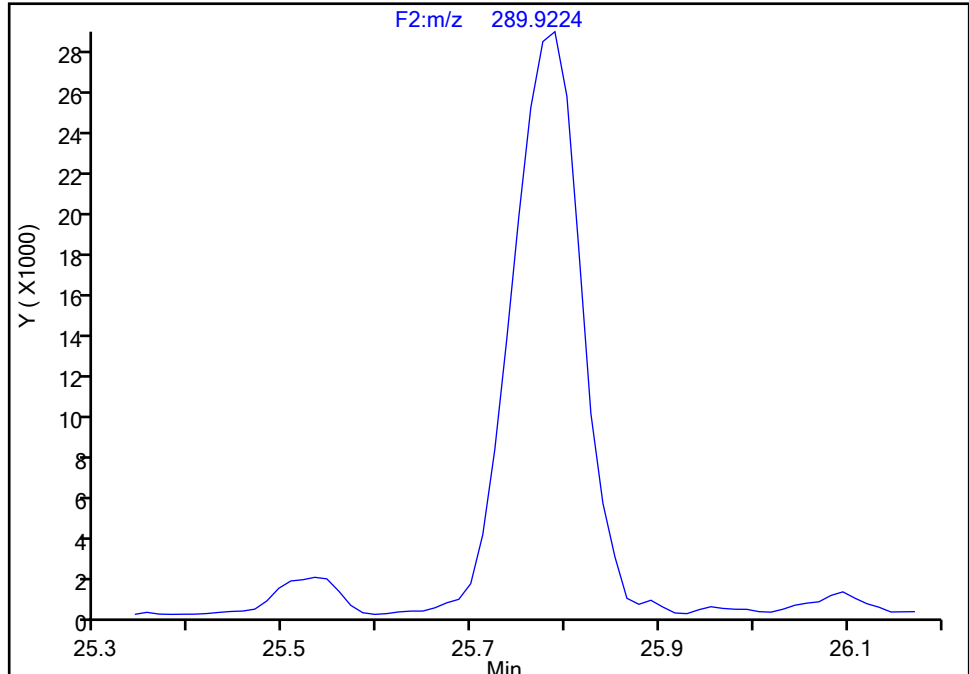
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

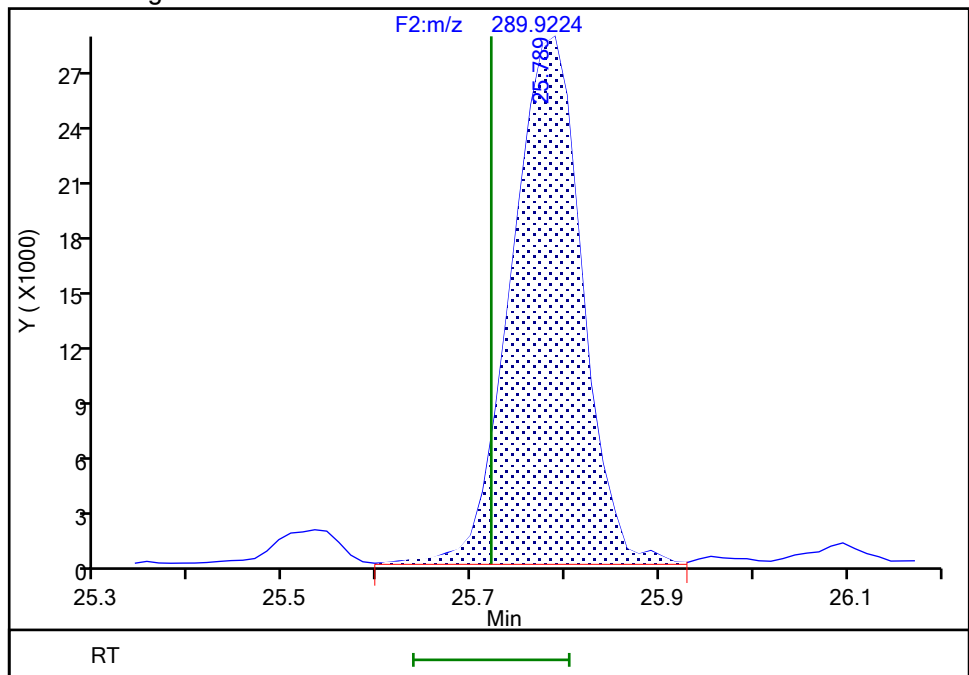
Not Detected
Expected RT: 25.72

Processing Integration Results



RT: 25.79
Area: 146874
Amount: 6.023407
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:11:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

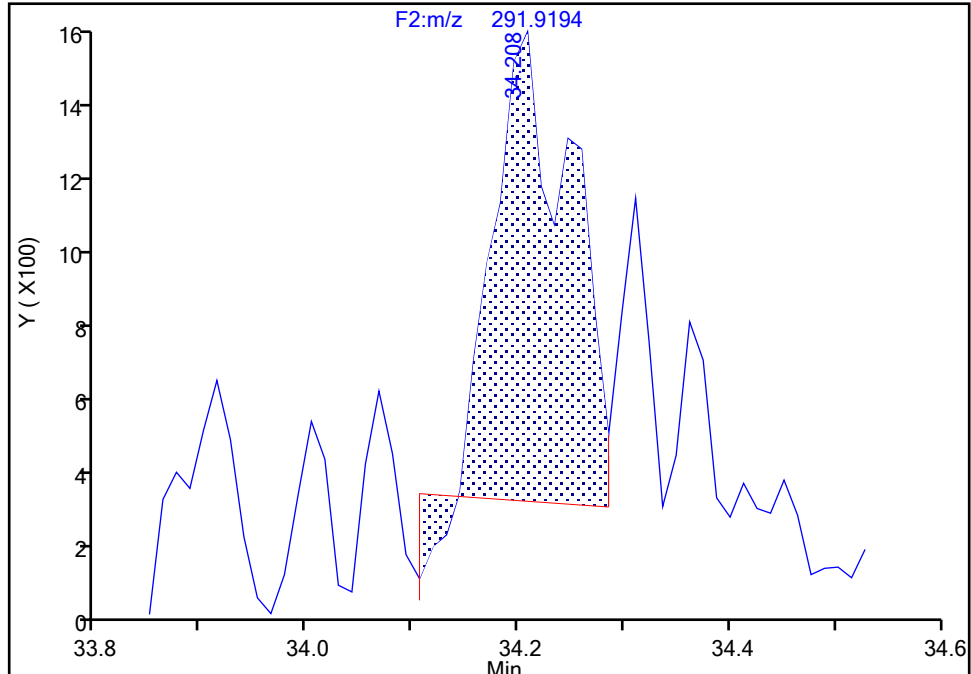
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

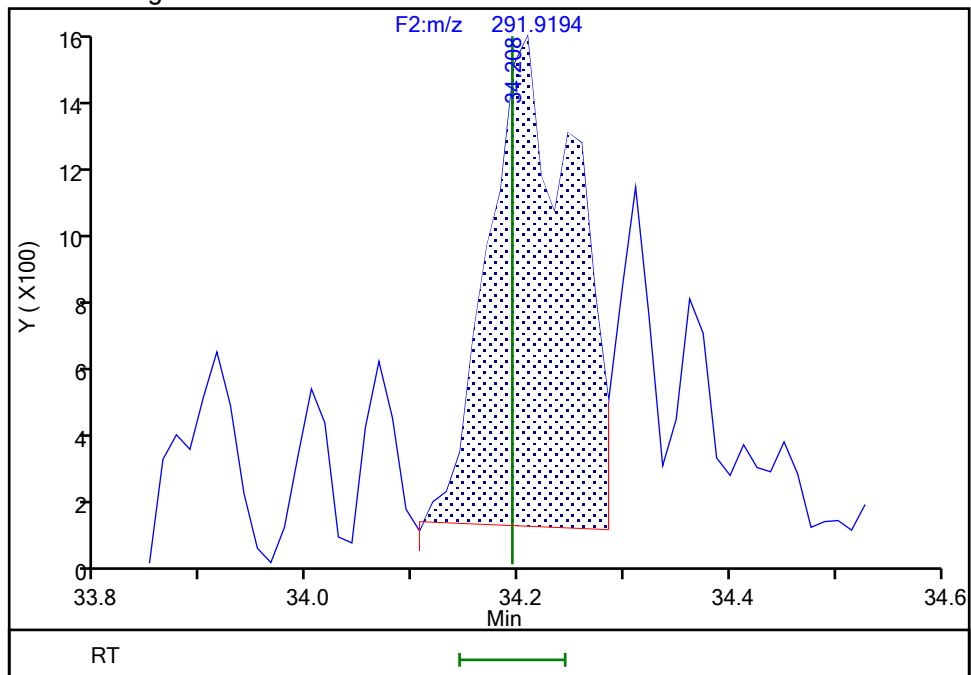
RT: 34.21
Area: 5817
Amount: 0.202114
Amount Units: pg/ul

Processing Integration Results



RT: 34.21
Area: 7787
Amount: 0.233042
Amount Units: pg/ul

Manual Integration Results



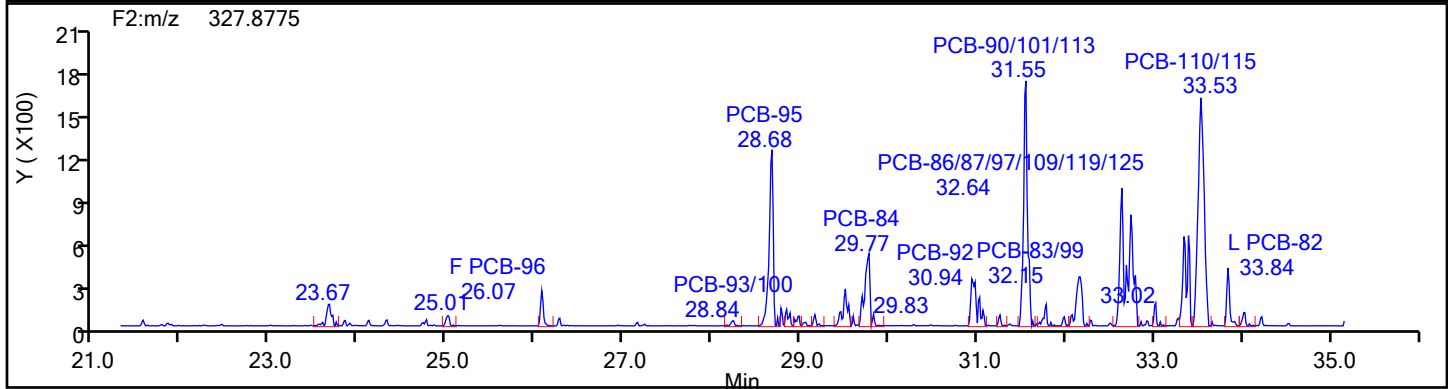
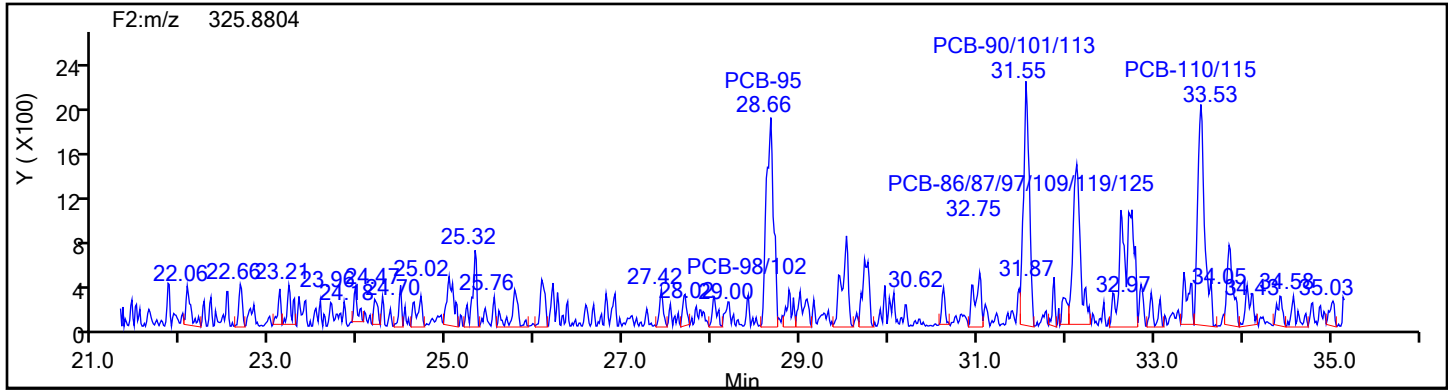
Reviewer: V4XA, 17-Jul-2024 00:15:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

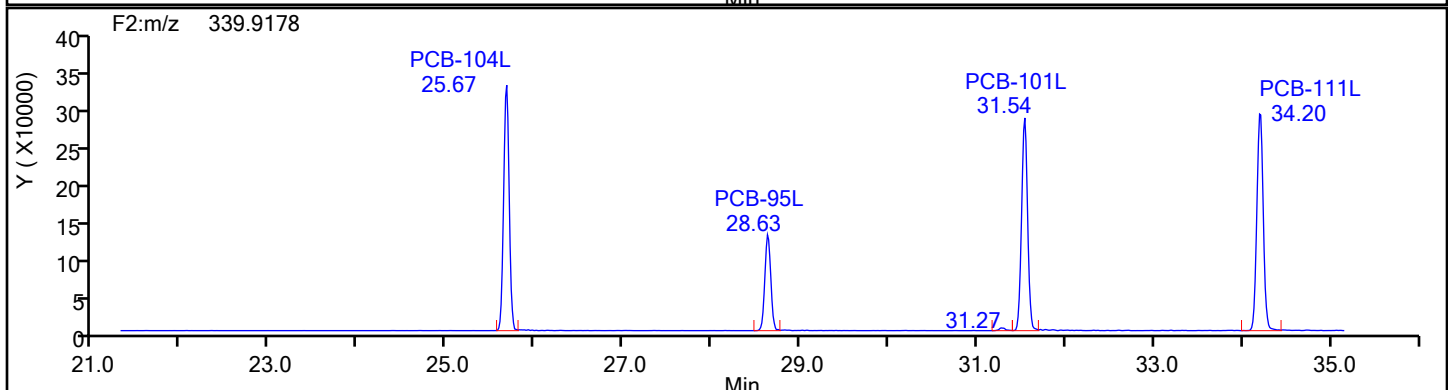
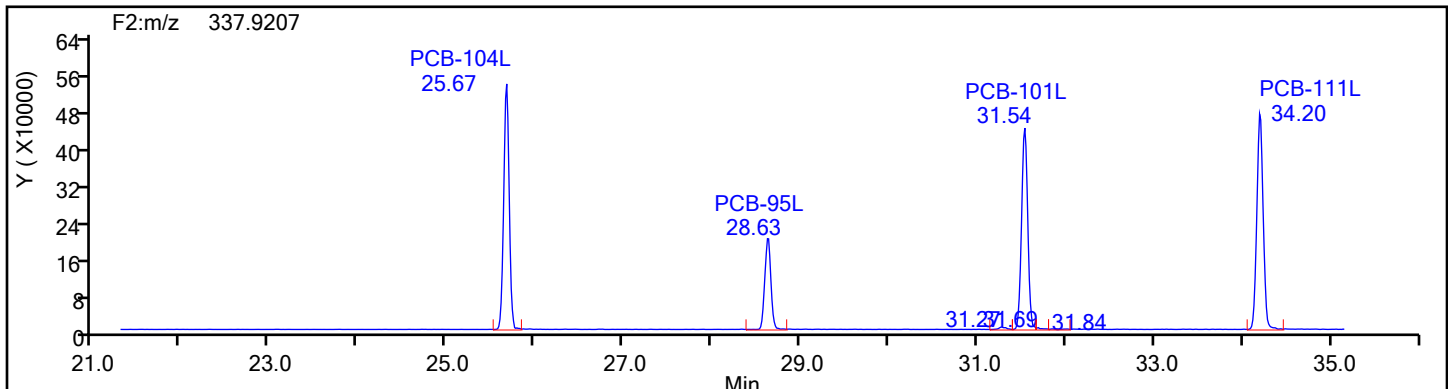
Audit Reason: Baseline

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

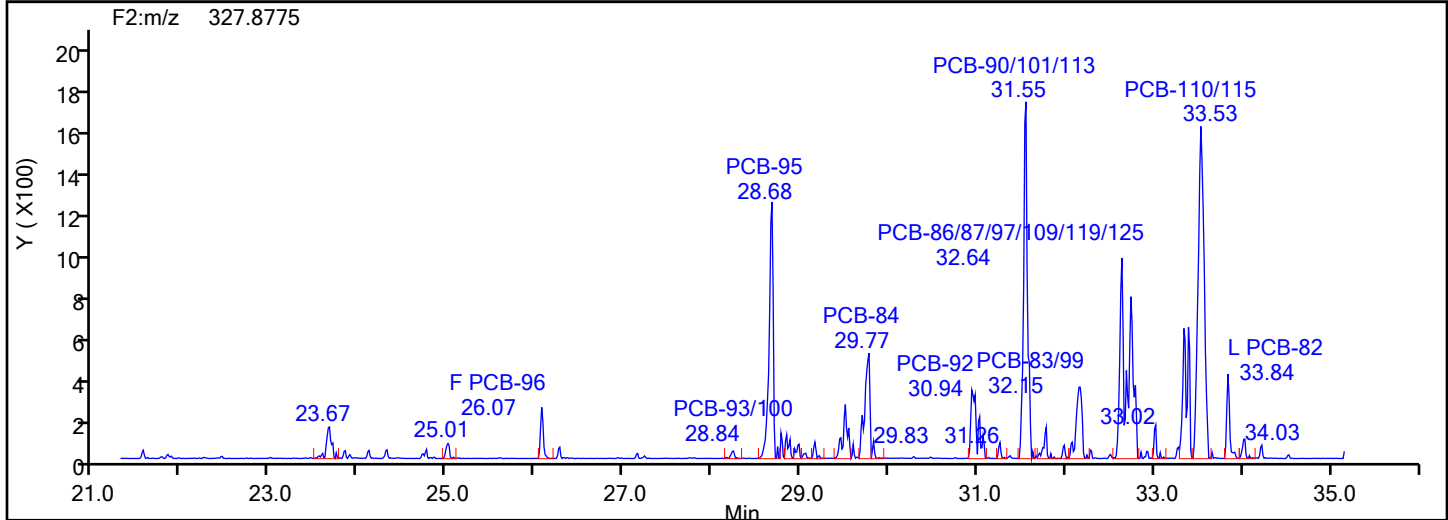
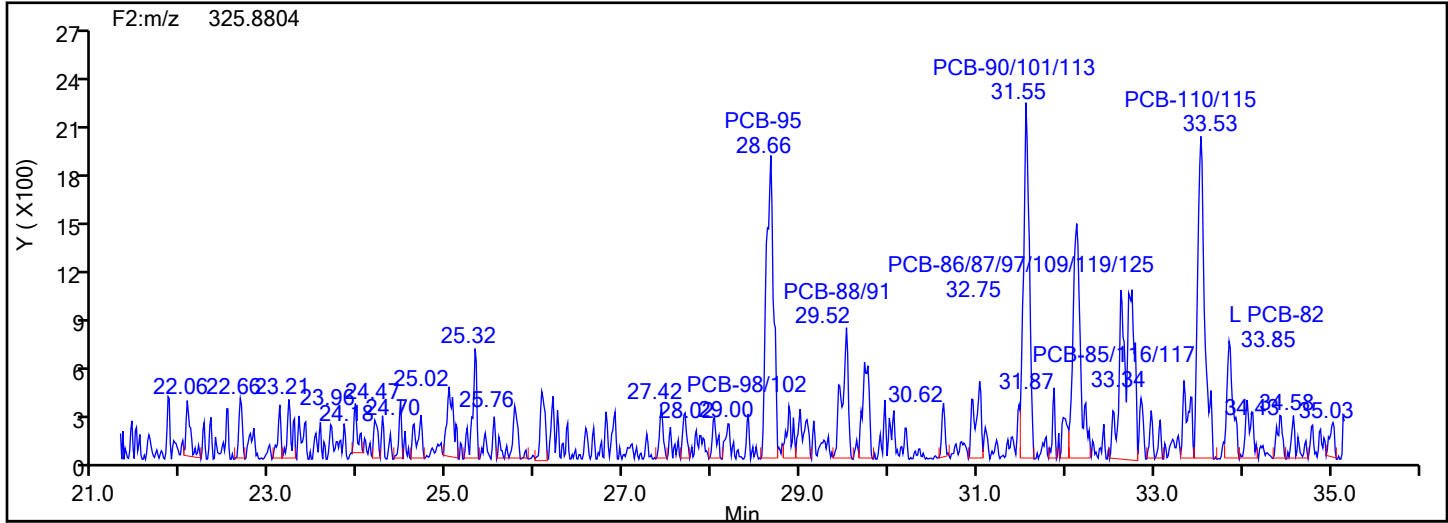


PePCB F2 Standards

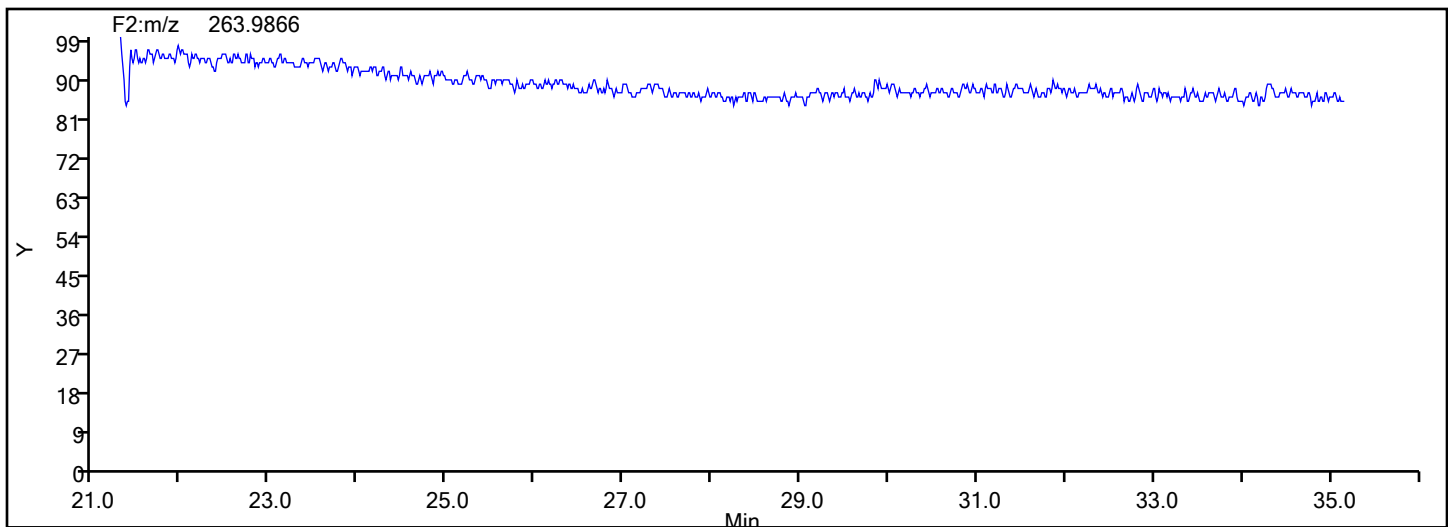


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

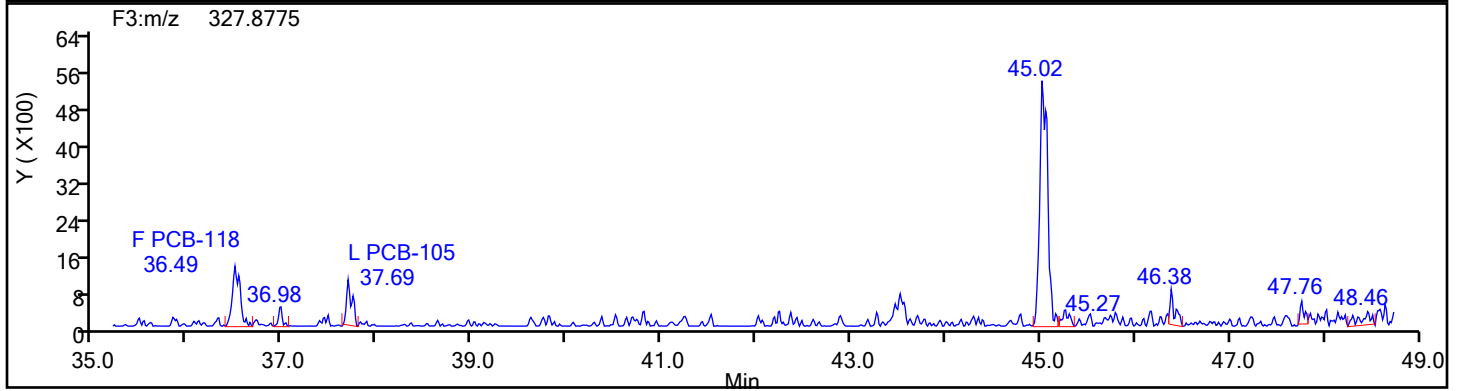
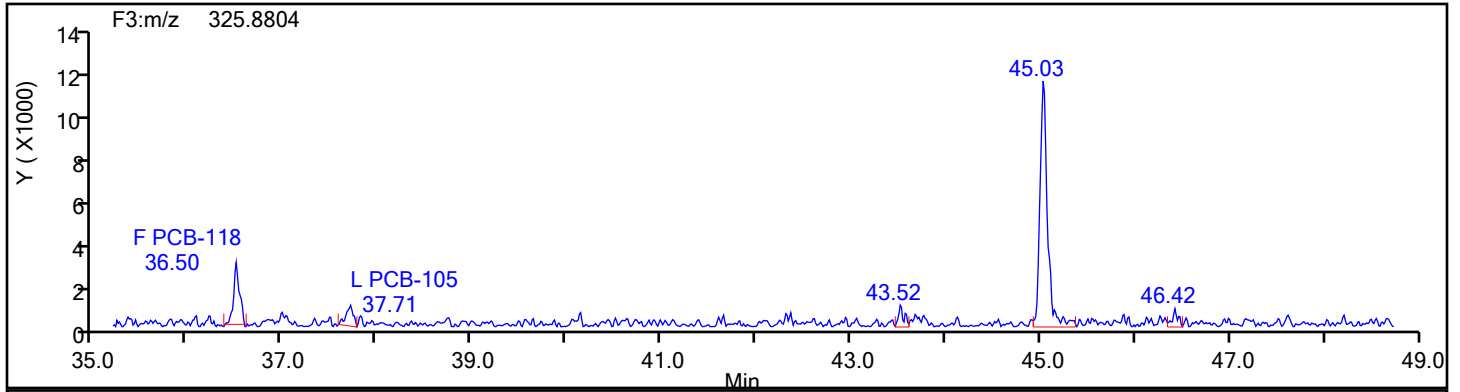


PePCB F2 Lock Mass

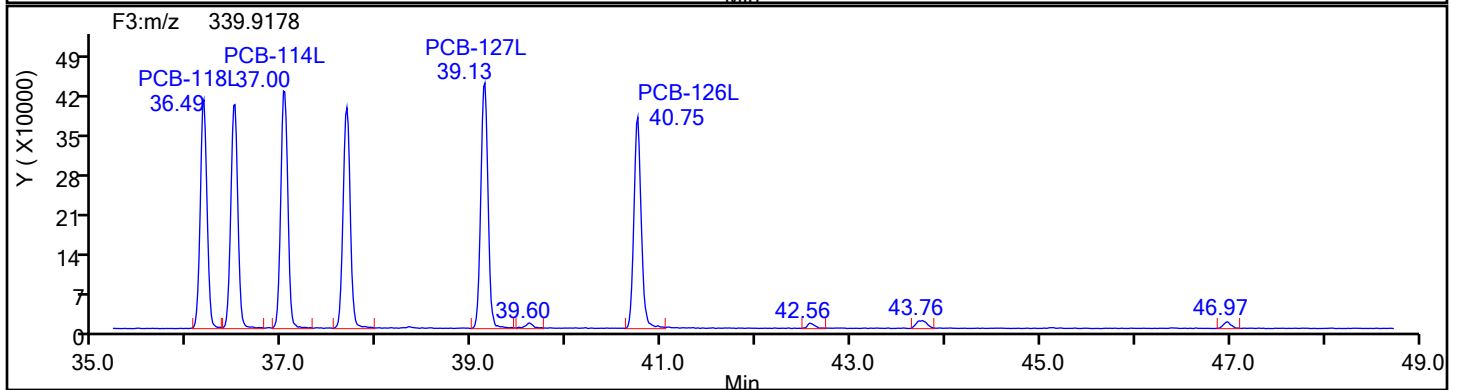
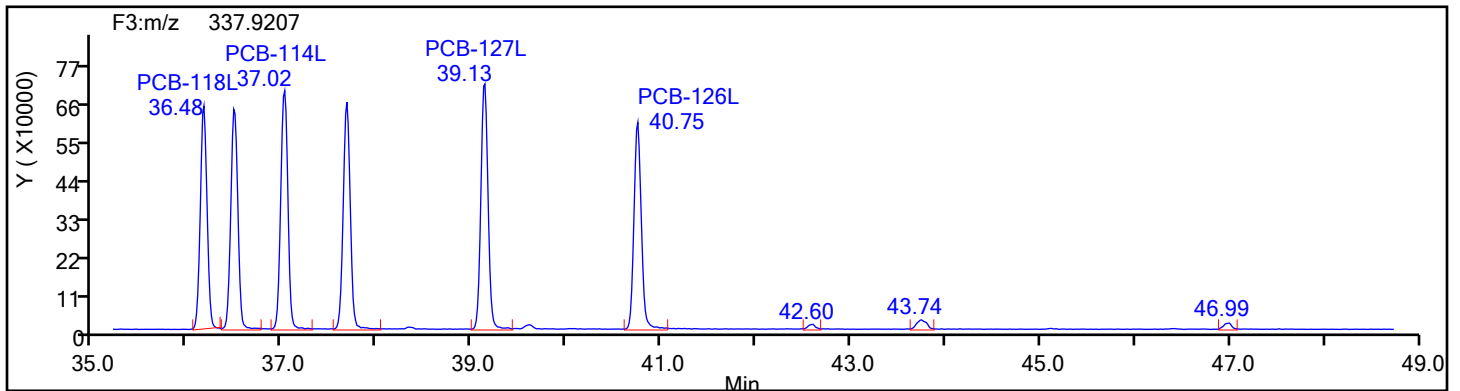


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

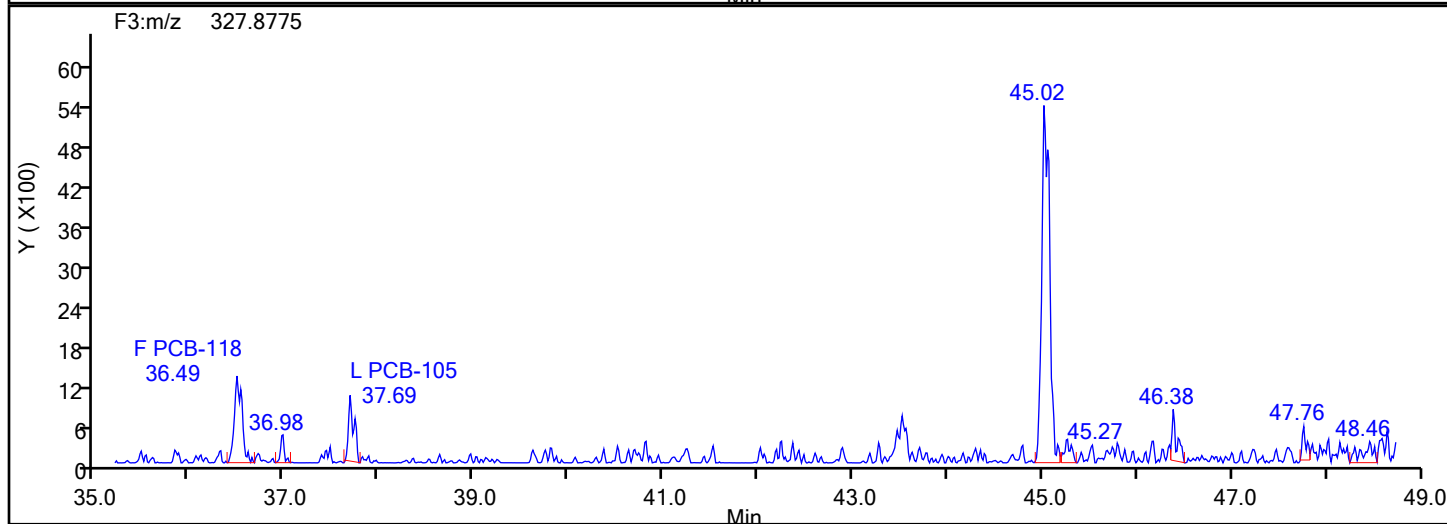
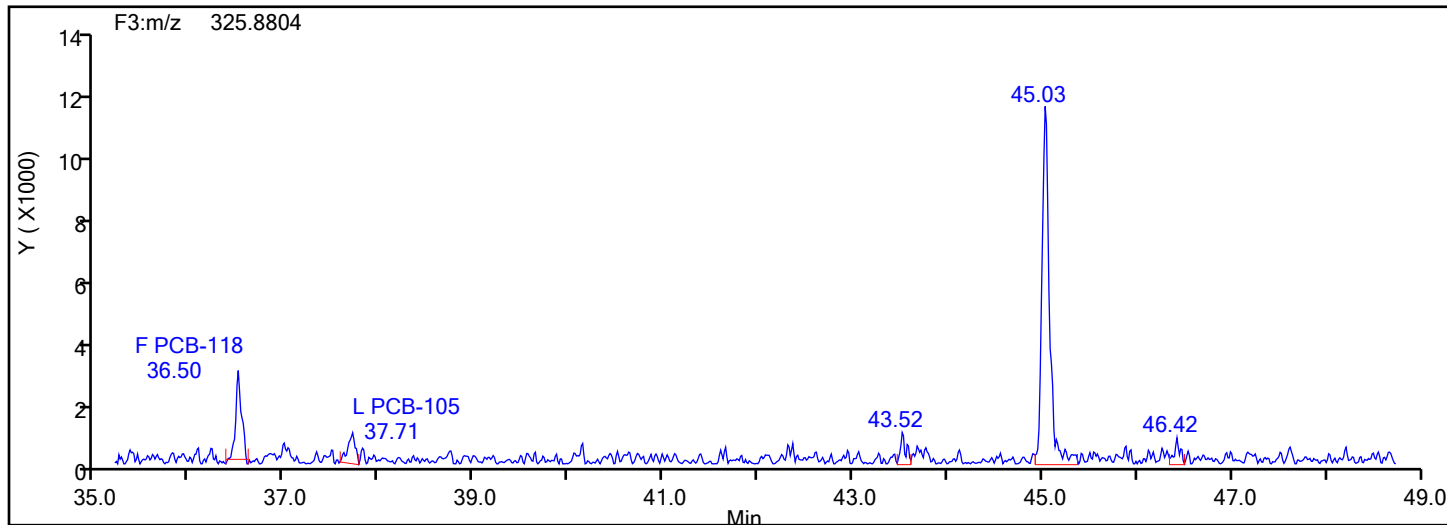


PePCB F3 Standards

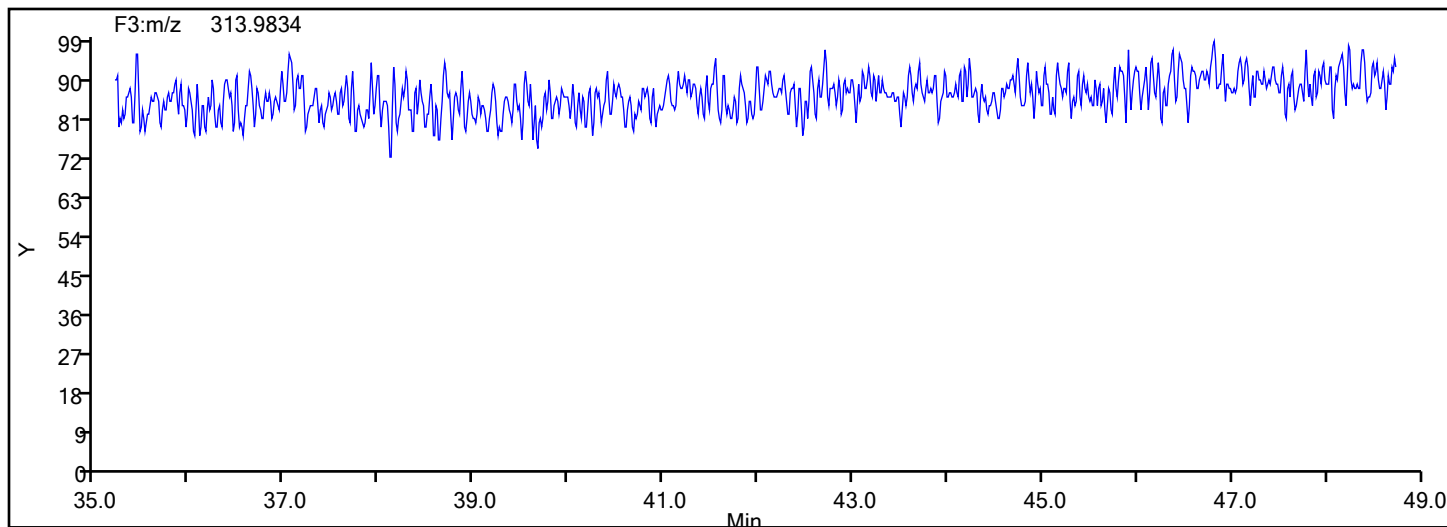


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

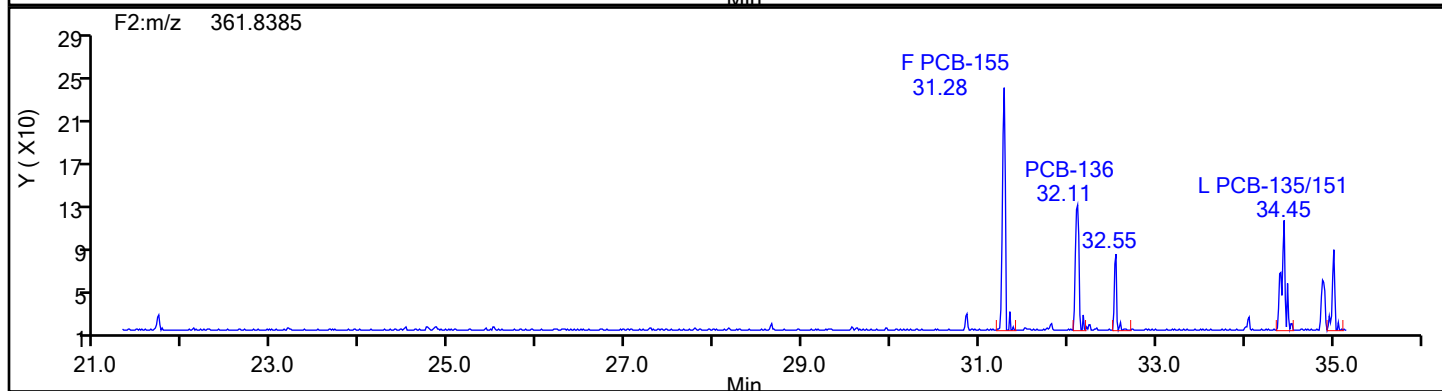
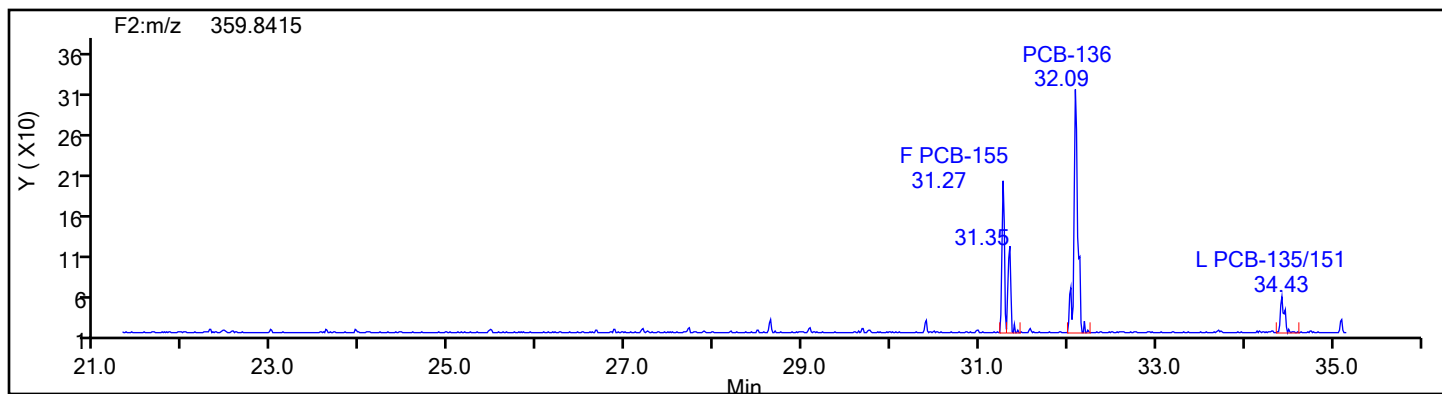


PePCB F3 Lock Mass

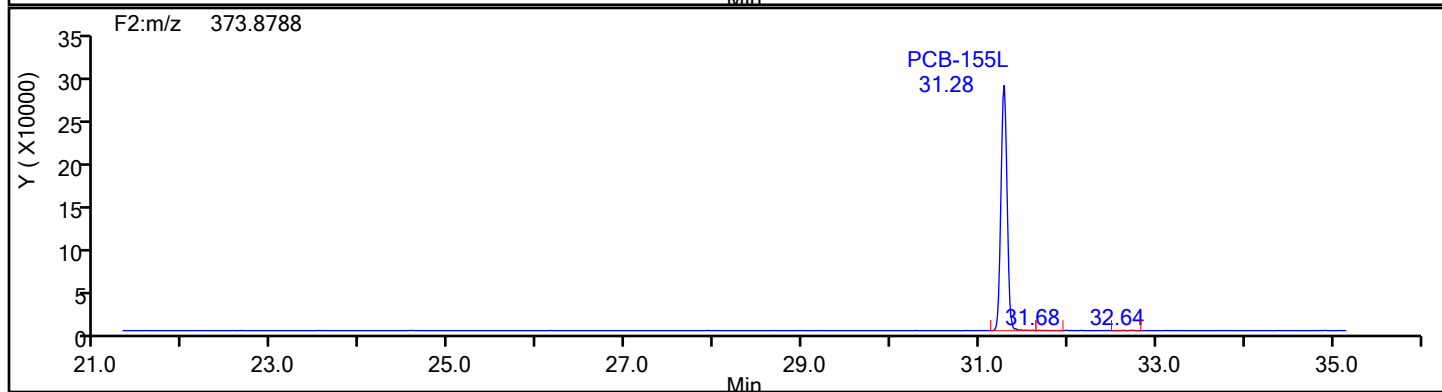
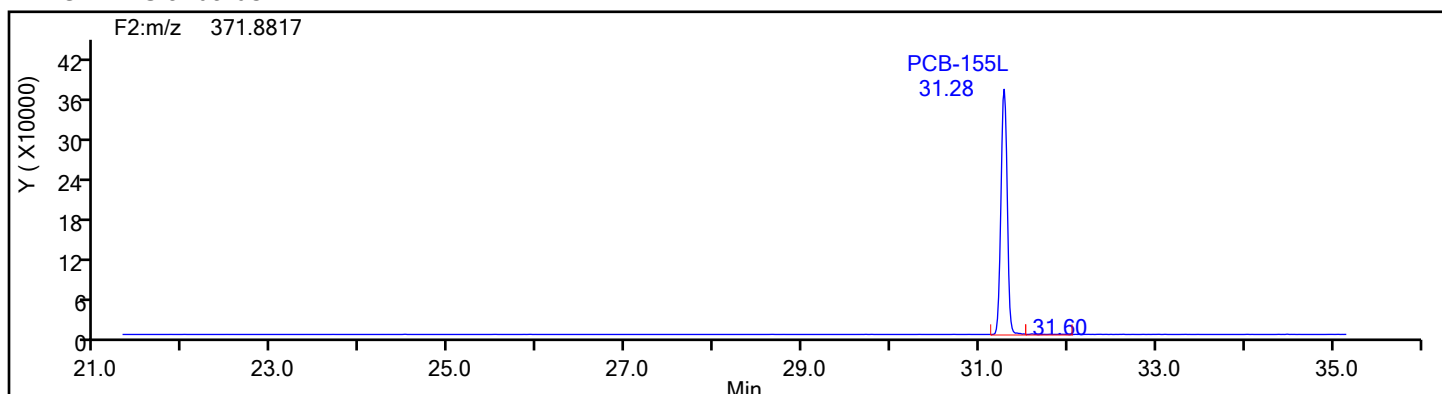


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

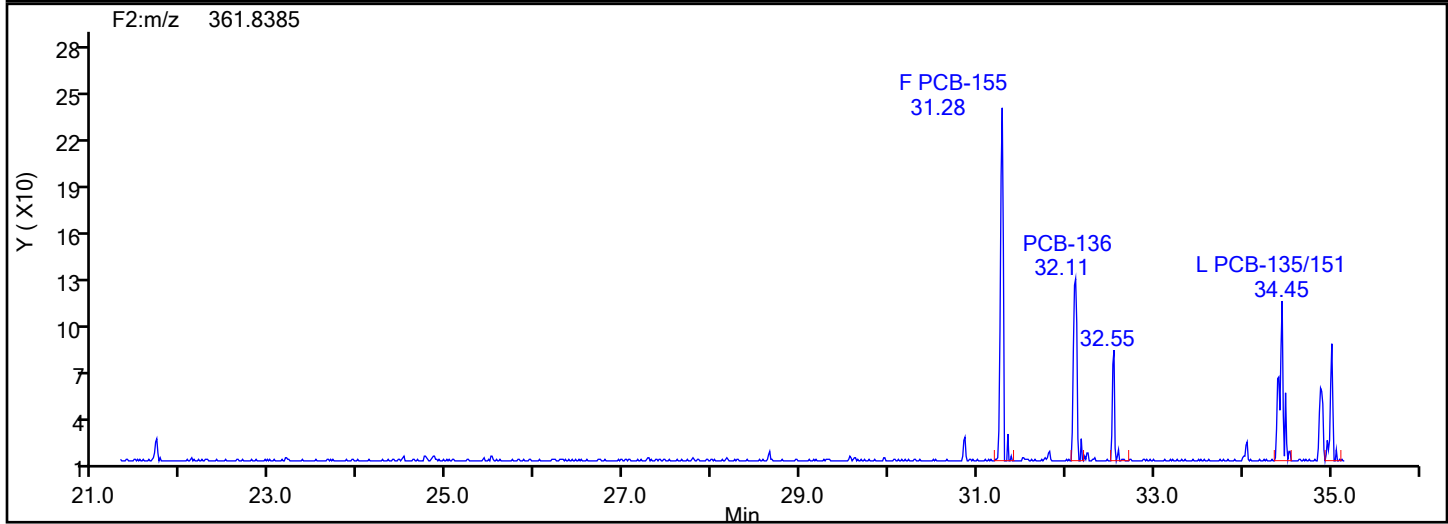
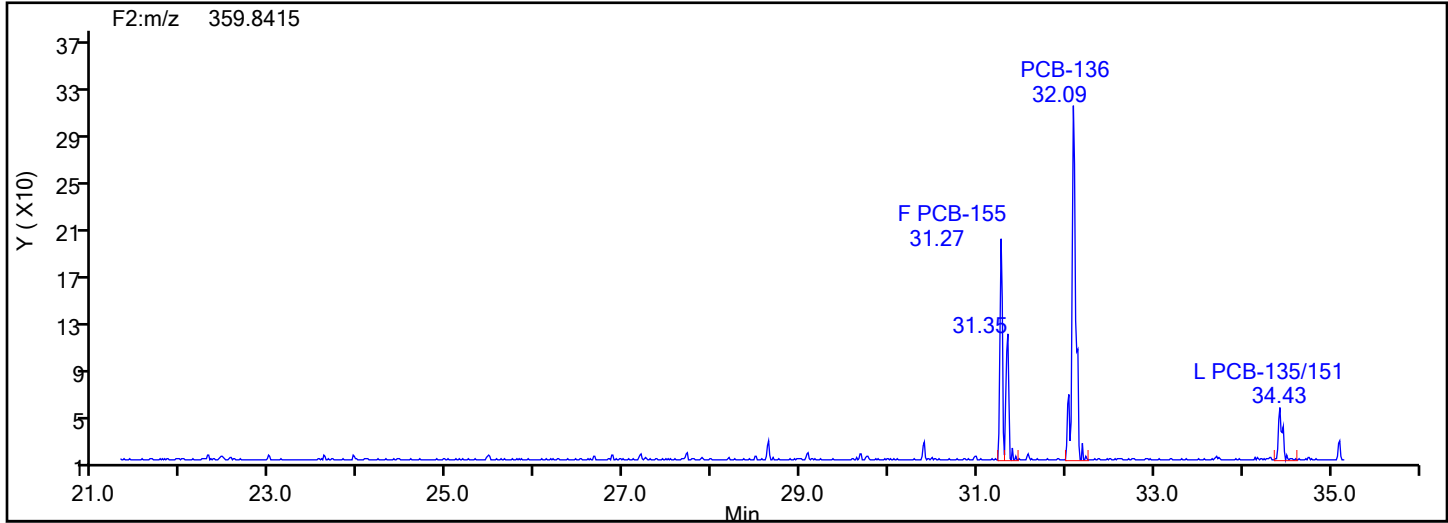


HxPCB F2 Standards

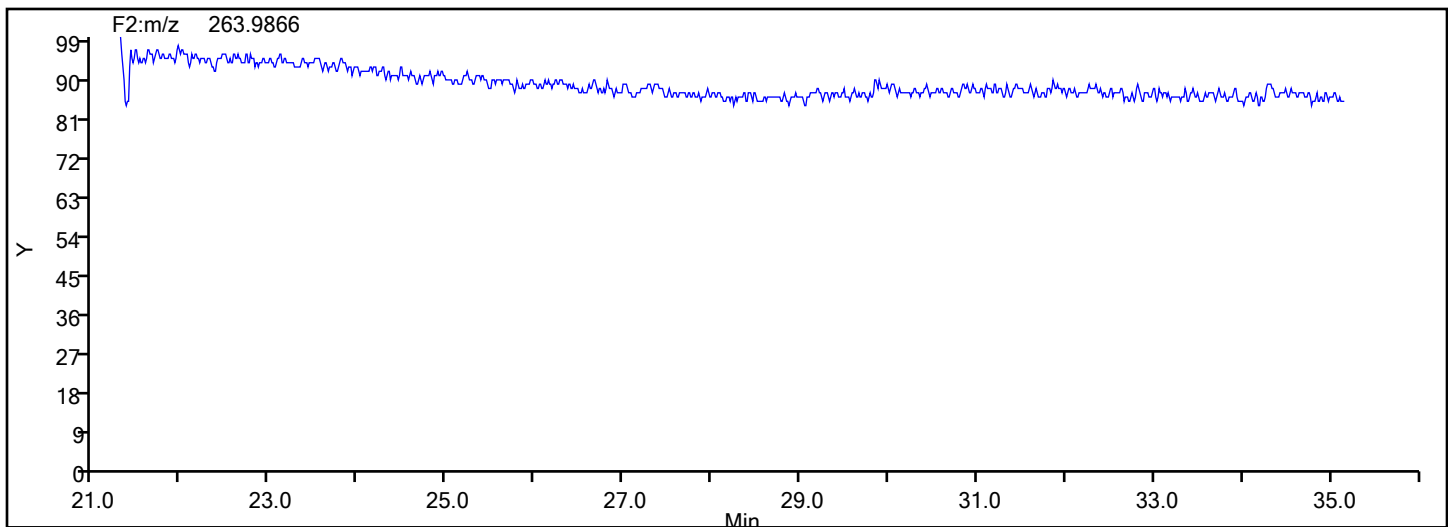


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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HxPCB F2

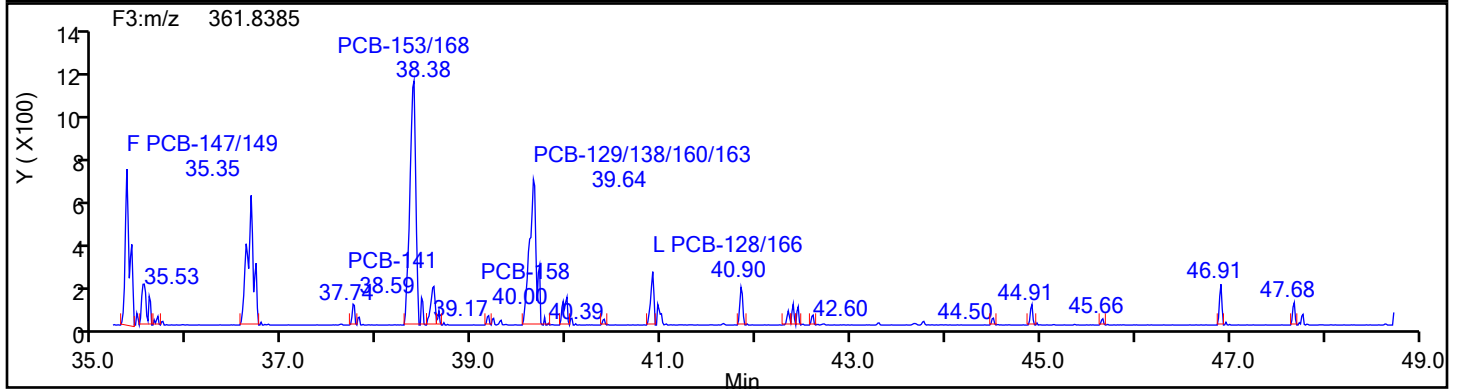
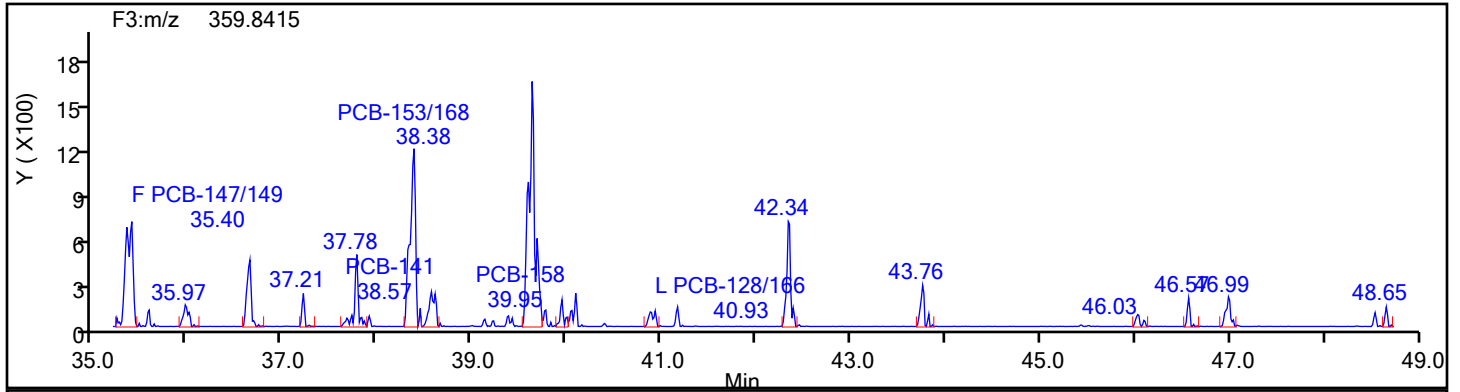


HxPCB F2 Lock Mass

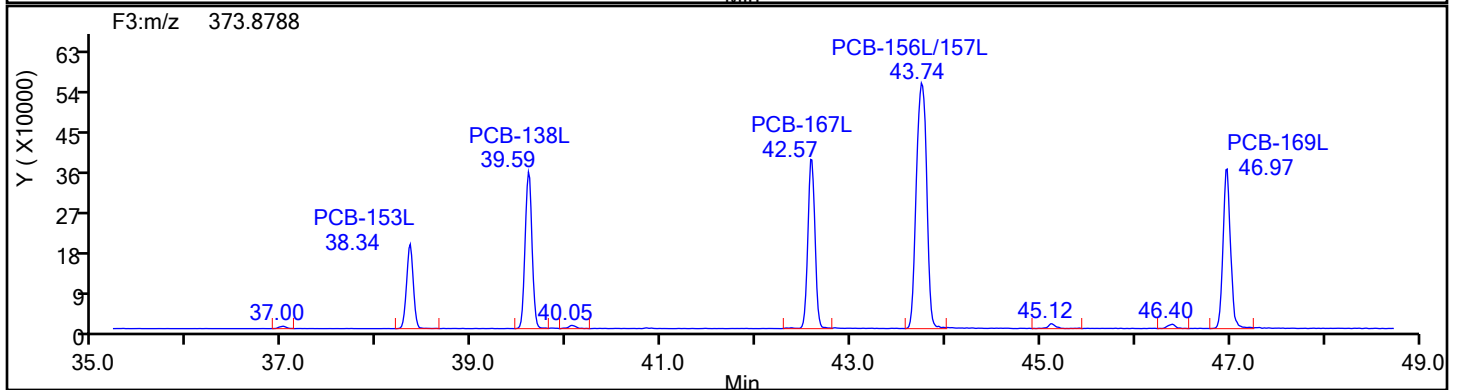
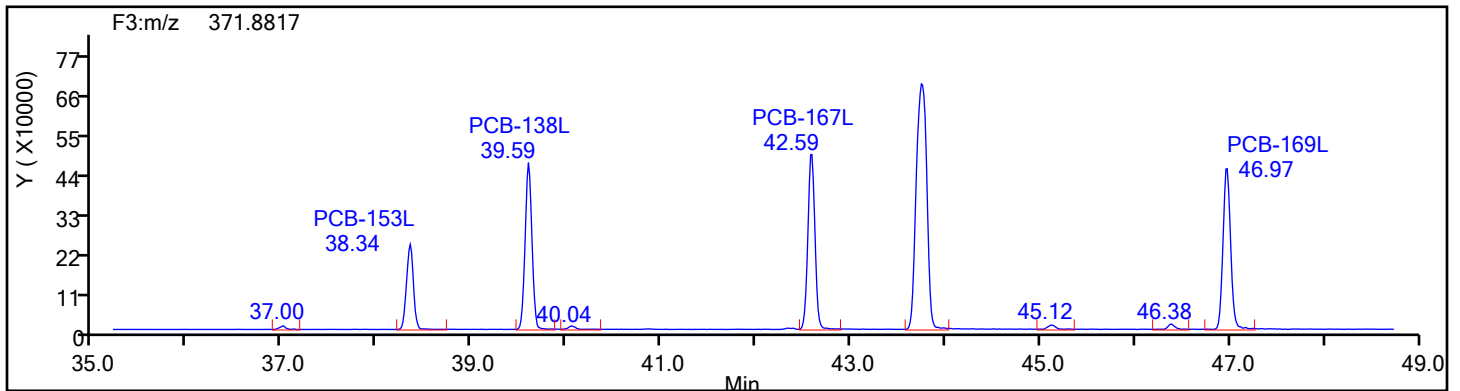


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

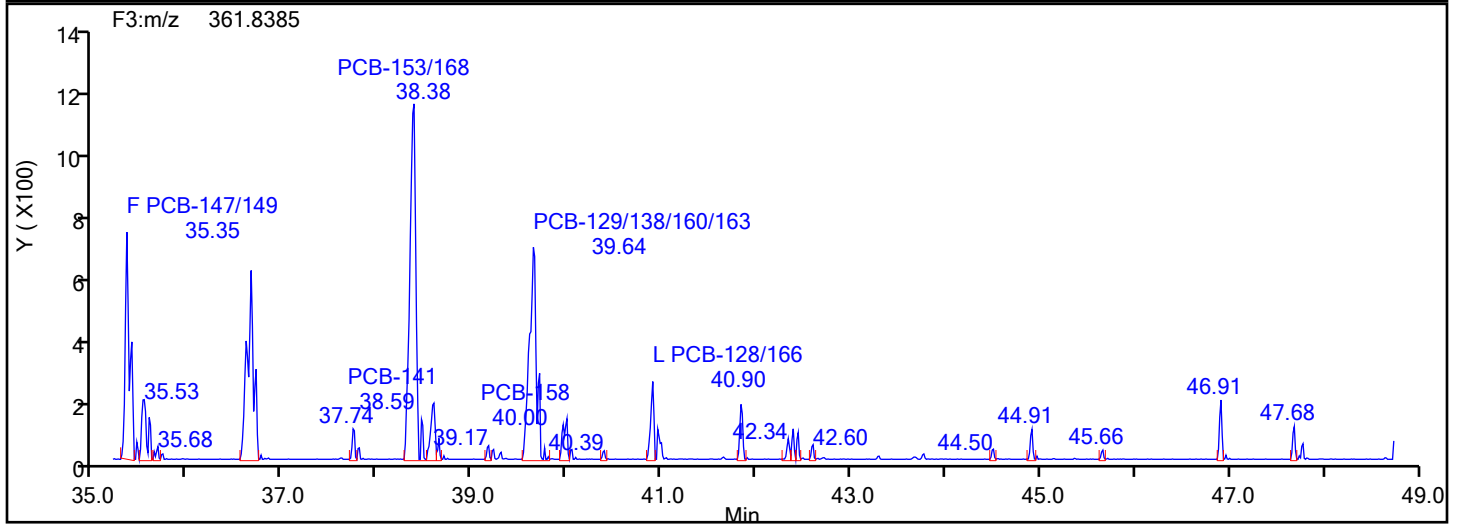
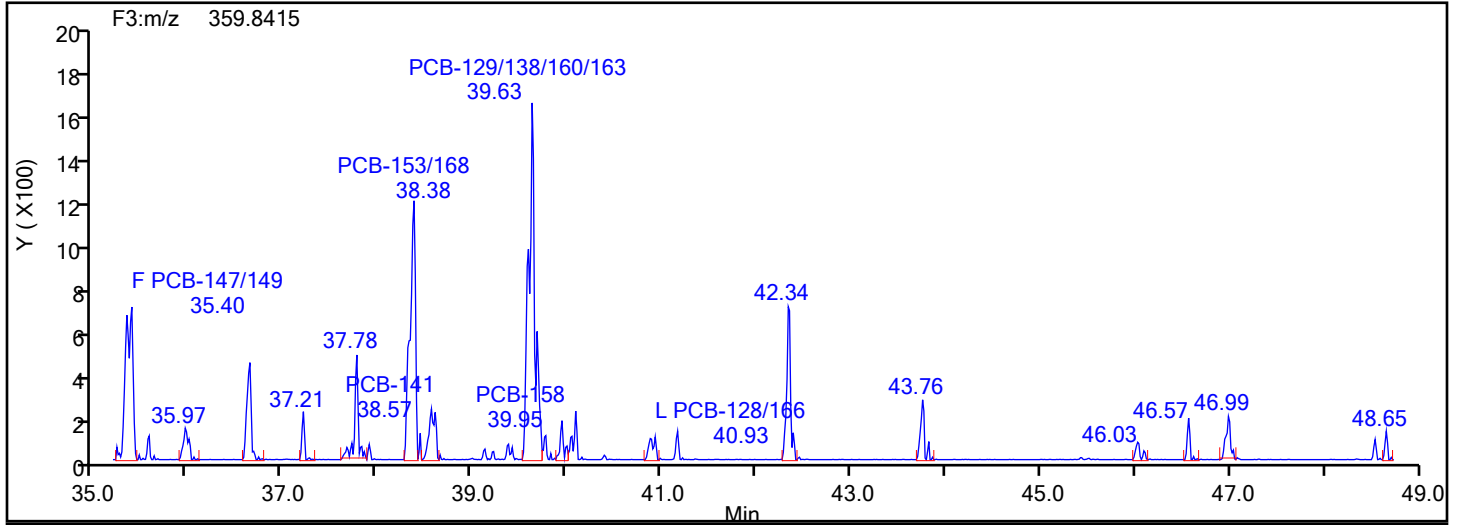


HxPCB F3 Standards

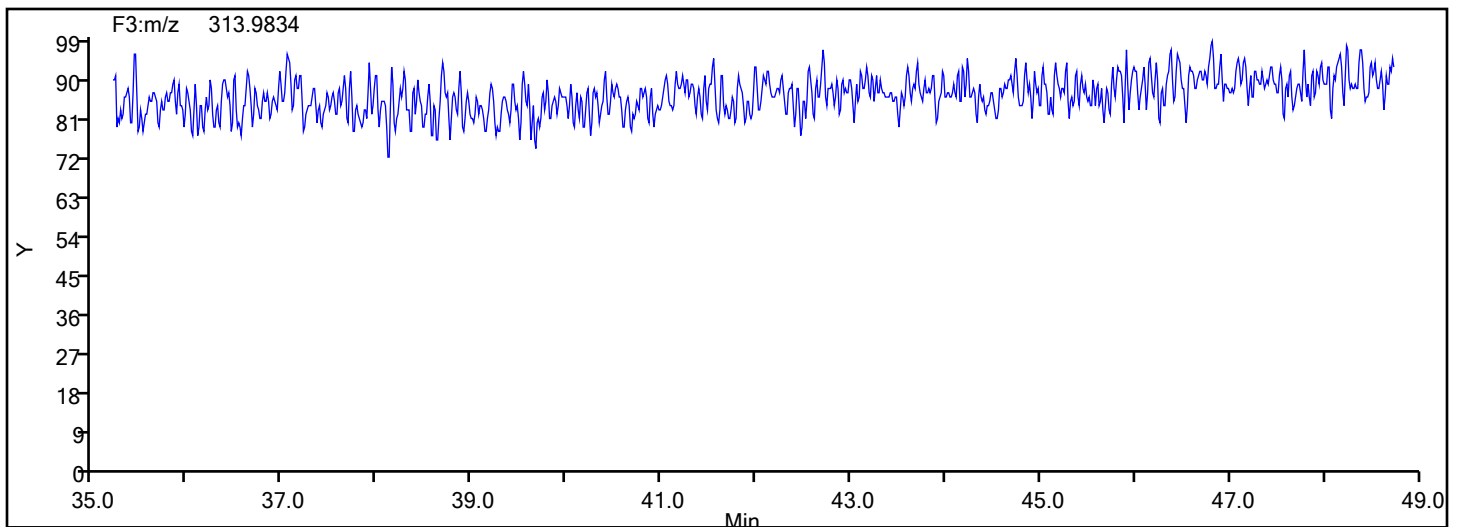


Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

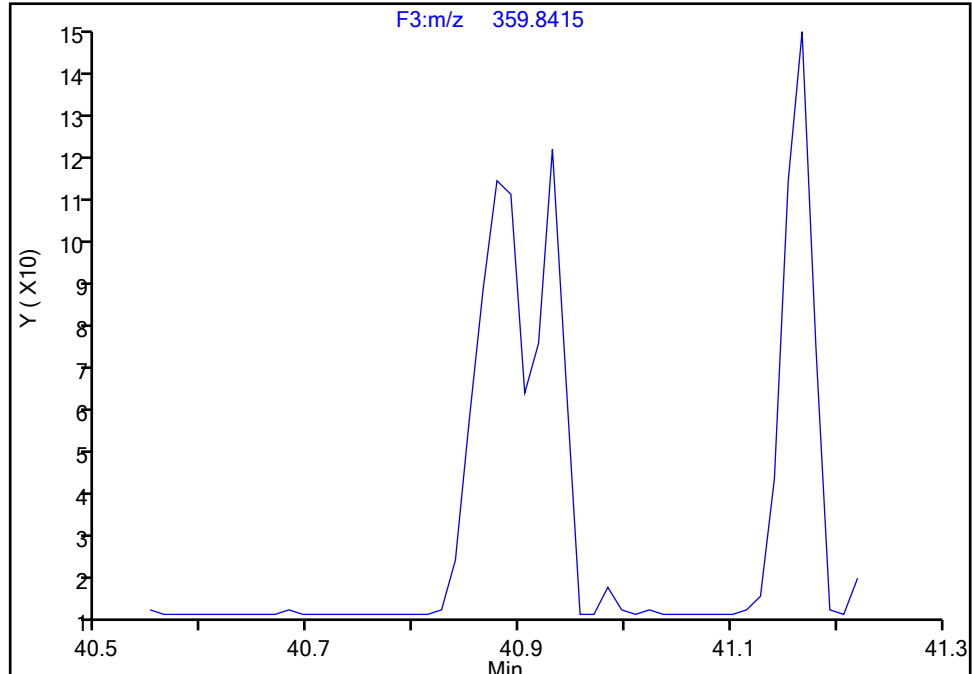
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Injection Date: 16-Jul-2024 08:02:00 Instrument ID: D2D
Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

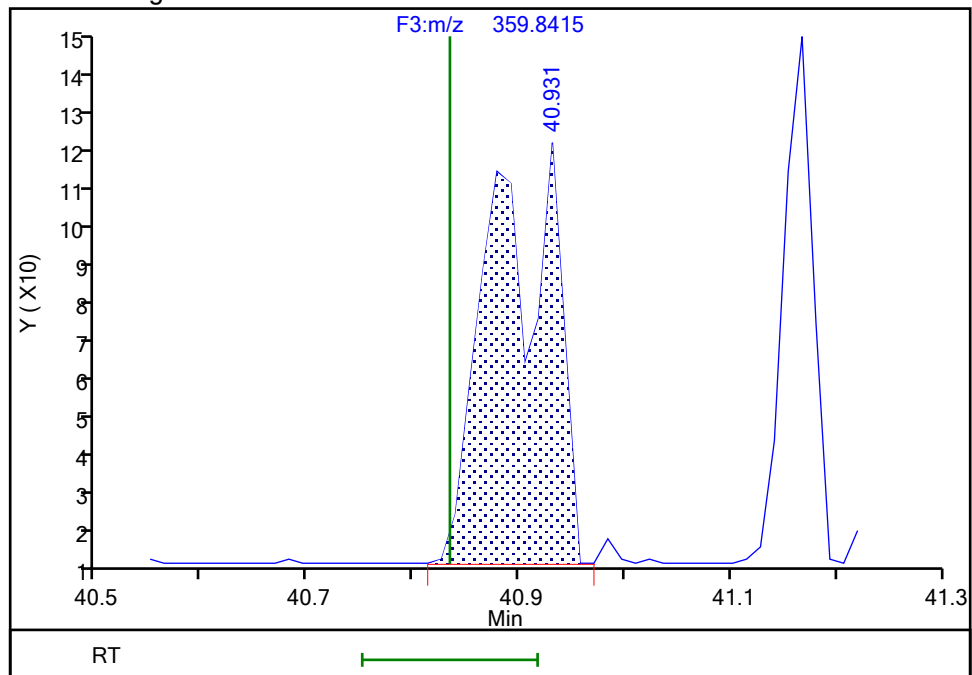
Not Detected
Expected RT: 40.83

Processing Integration Results



RT: 40.93
Area: 456
Amount: 0.022401
Amount Units: pg/ul

Manual Integration Results



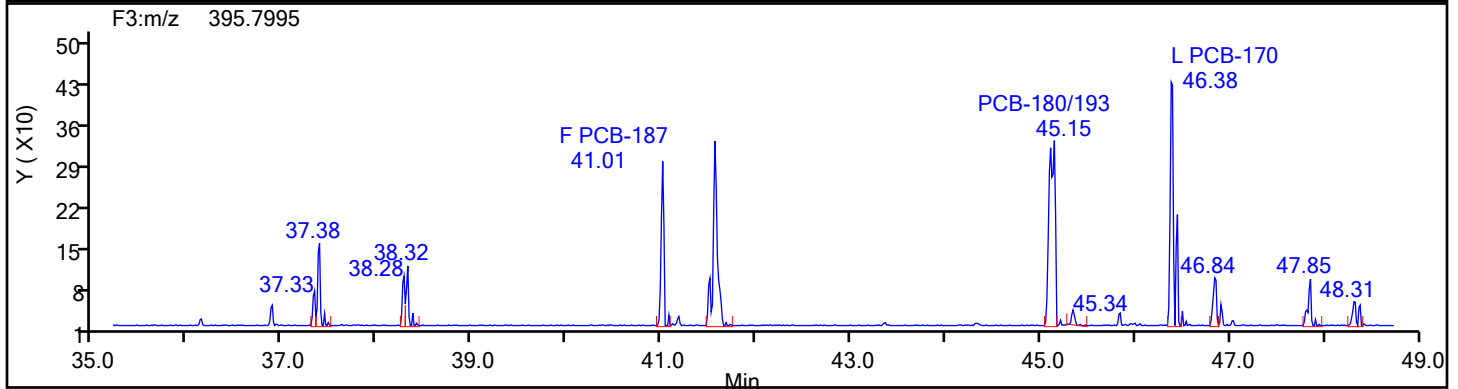
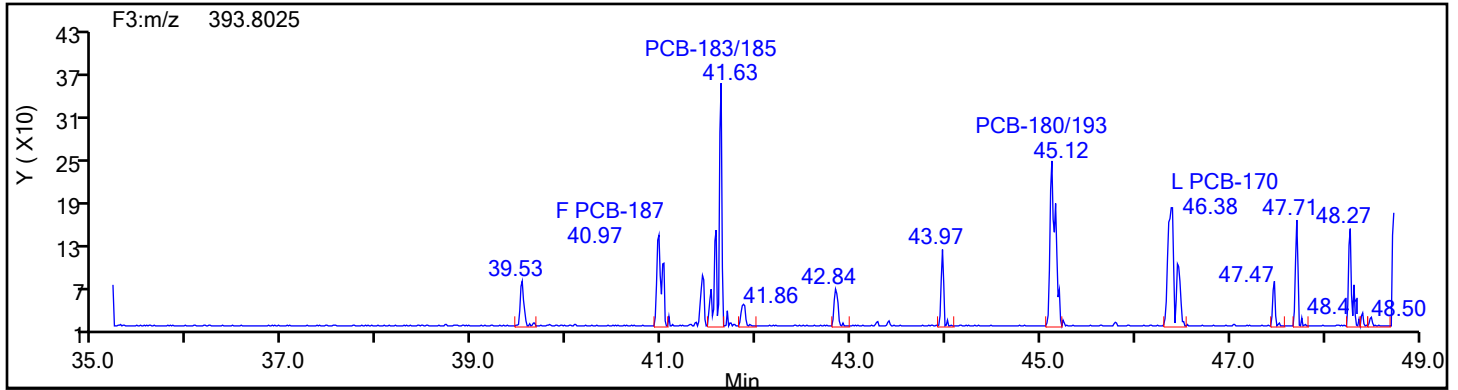
Reviewer: V4XA, 17-Jul-2024 00:19:01 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

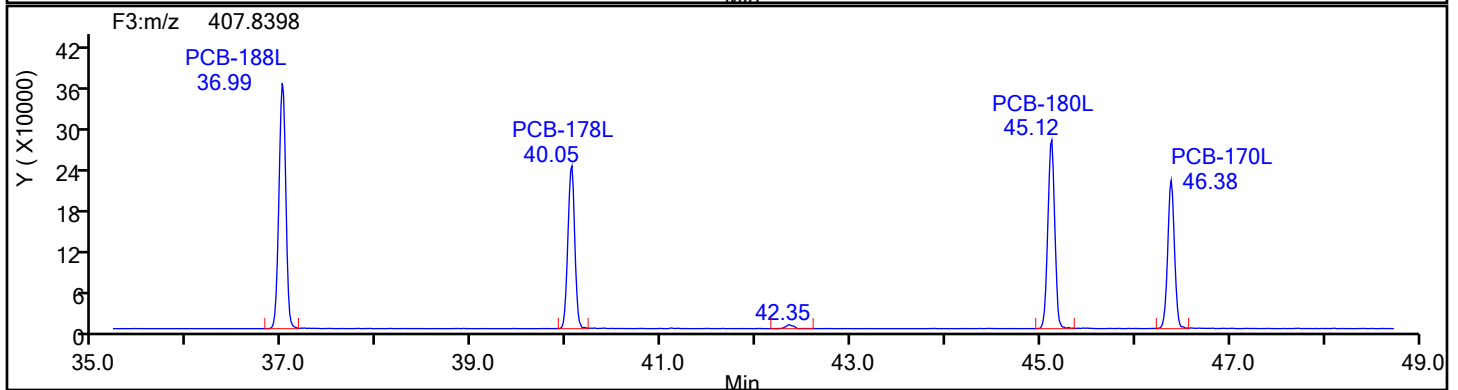
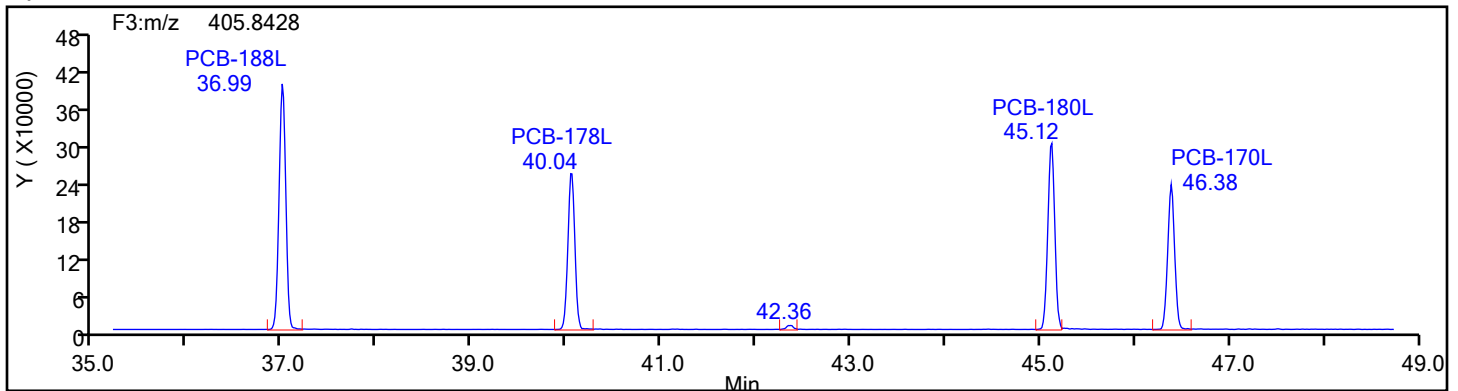
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

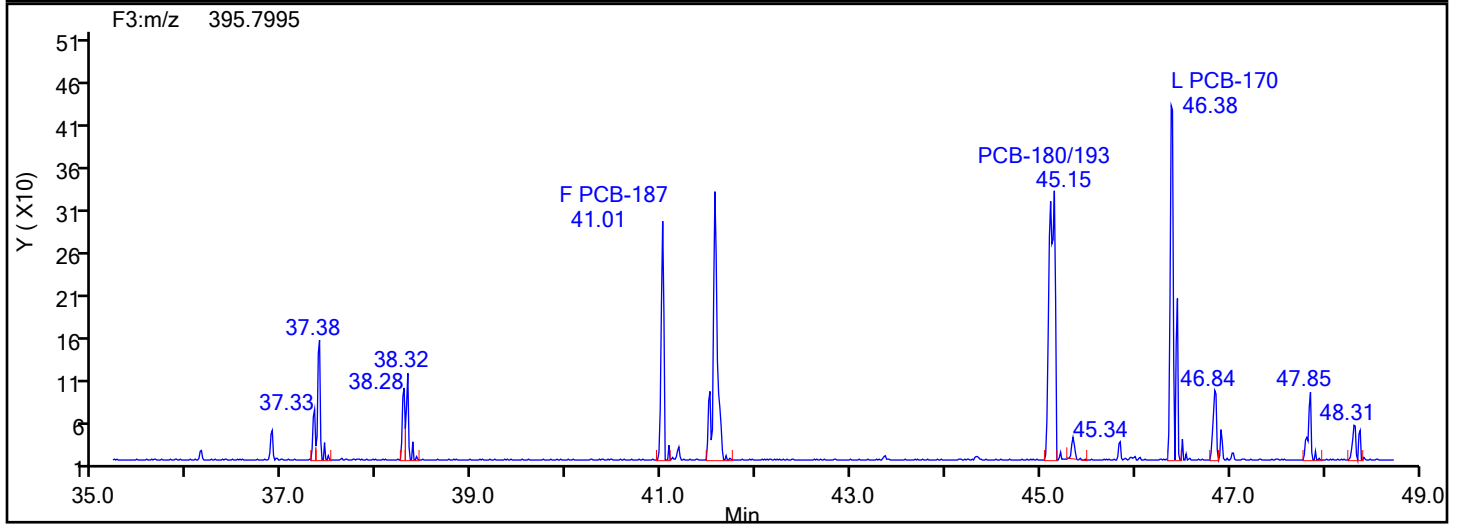
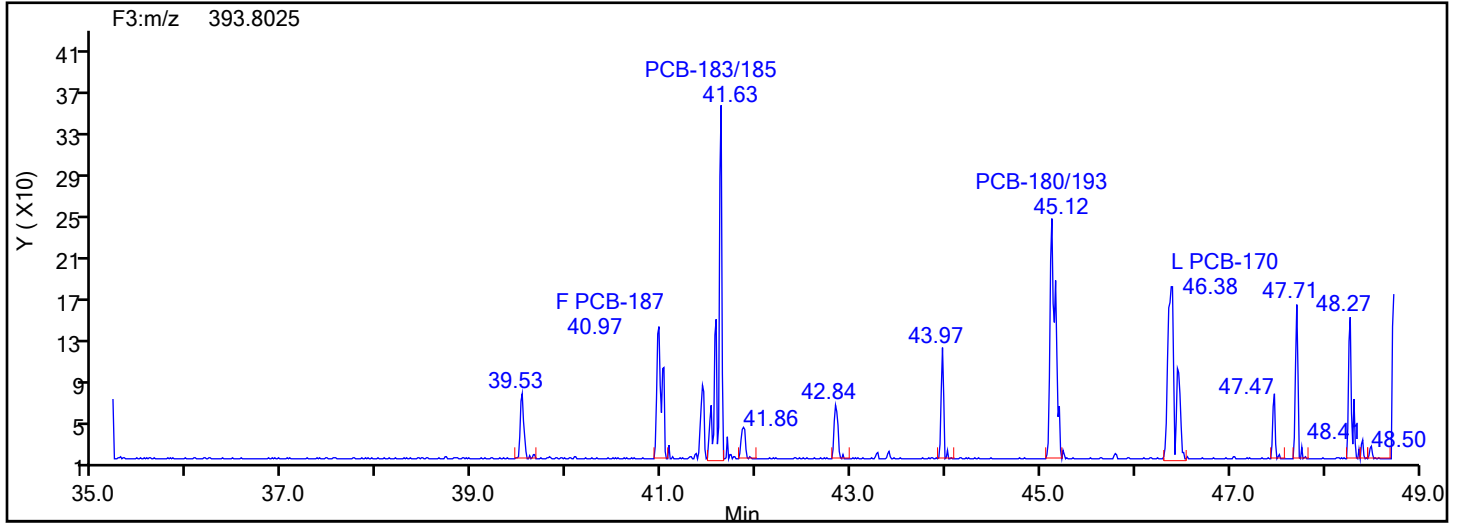


HpPCB F3 Standards

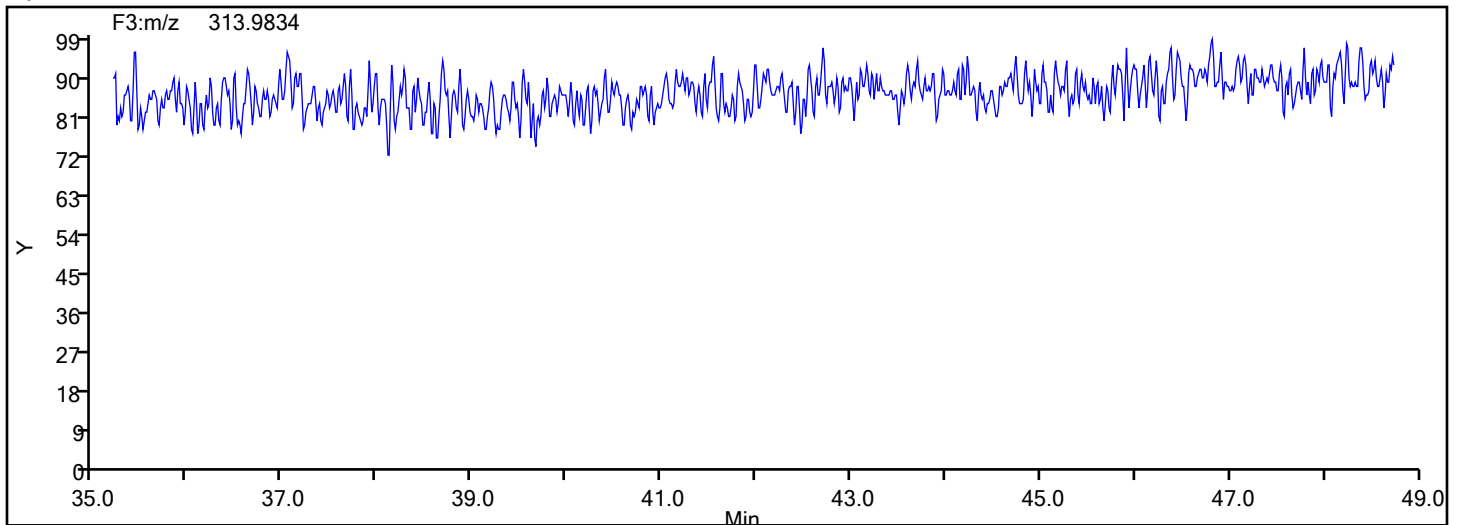


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

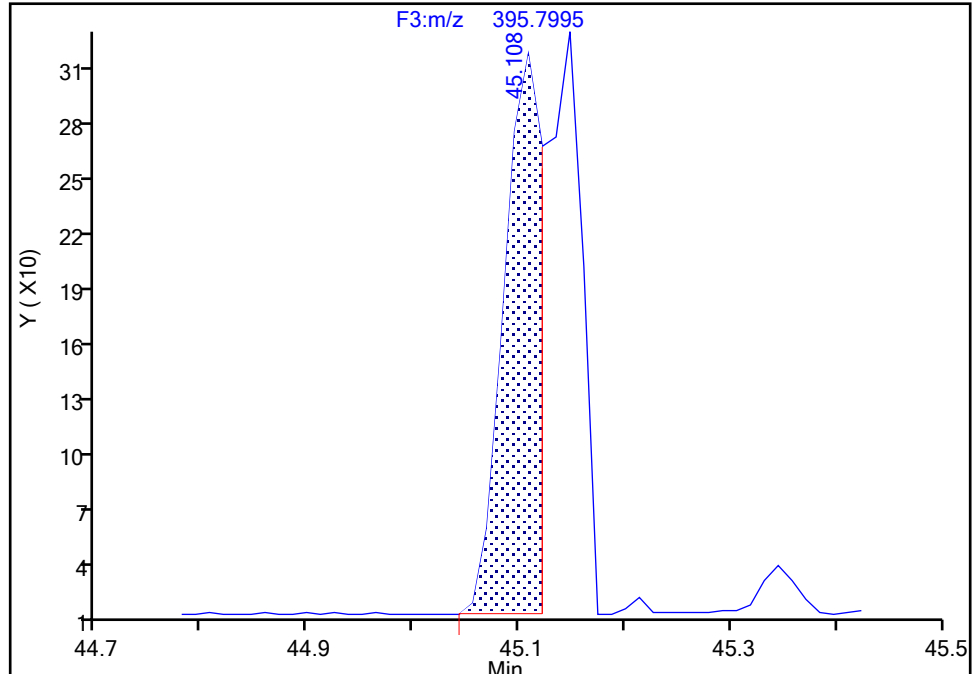
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Injection Date: 16-Jul-2024 08:02:00 Instrument ID: D2D
Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-180/193, CAS: STL01824

Signal: 2

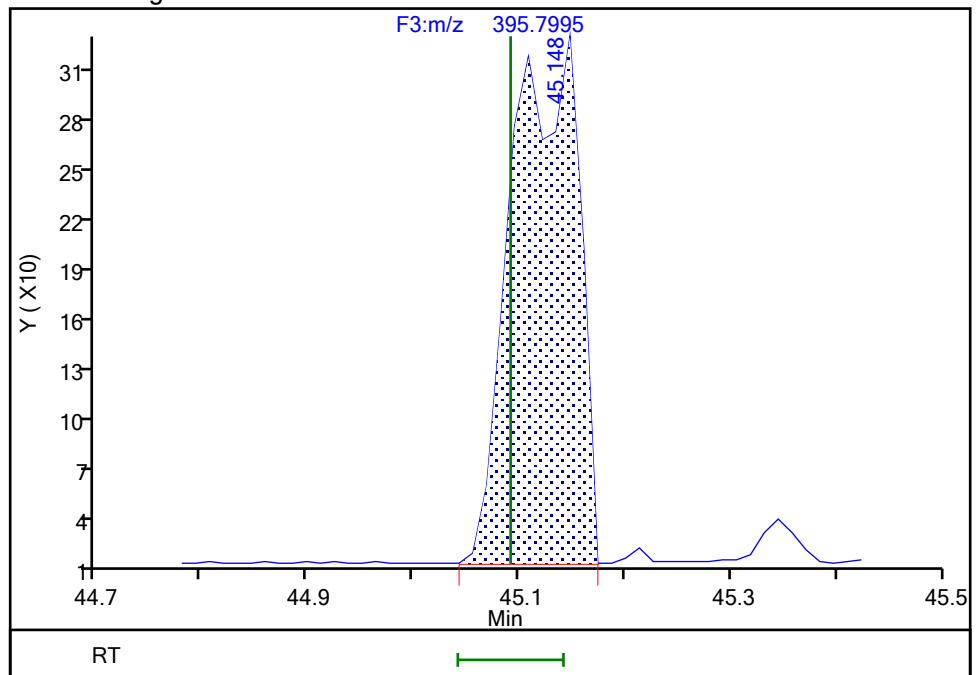
RT: 45.11
Area: 688
Amount: 0.044631
Amount Units: pg/ul

Processing Integration Results



RT: 45.15
Area: 1376
Amount: 0.063798
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:19:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

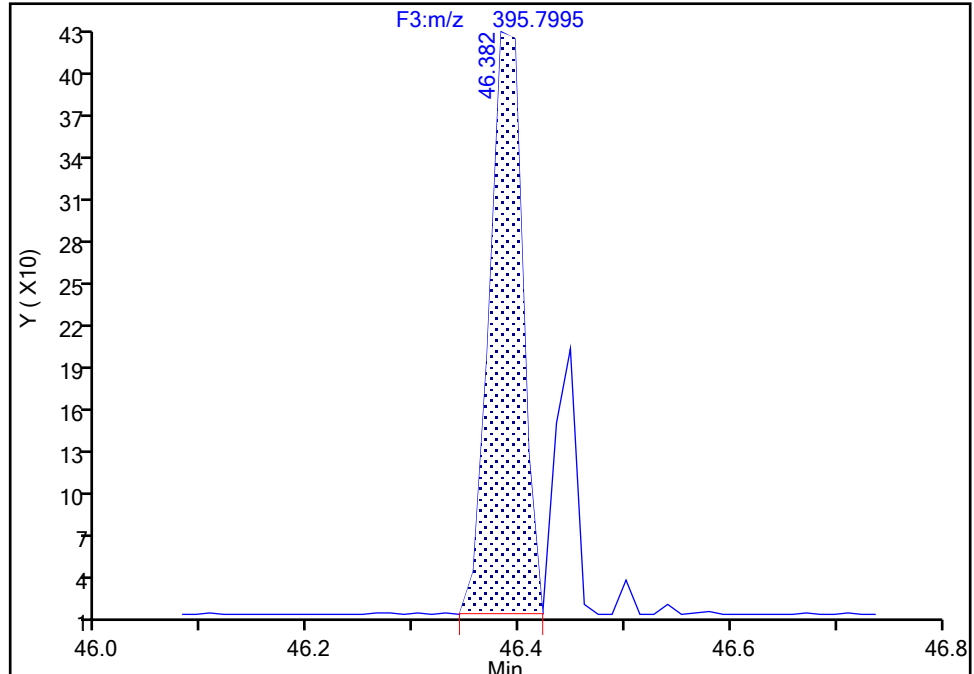
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Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 2

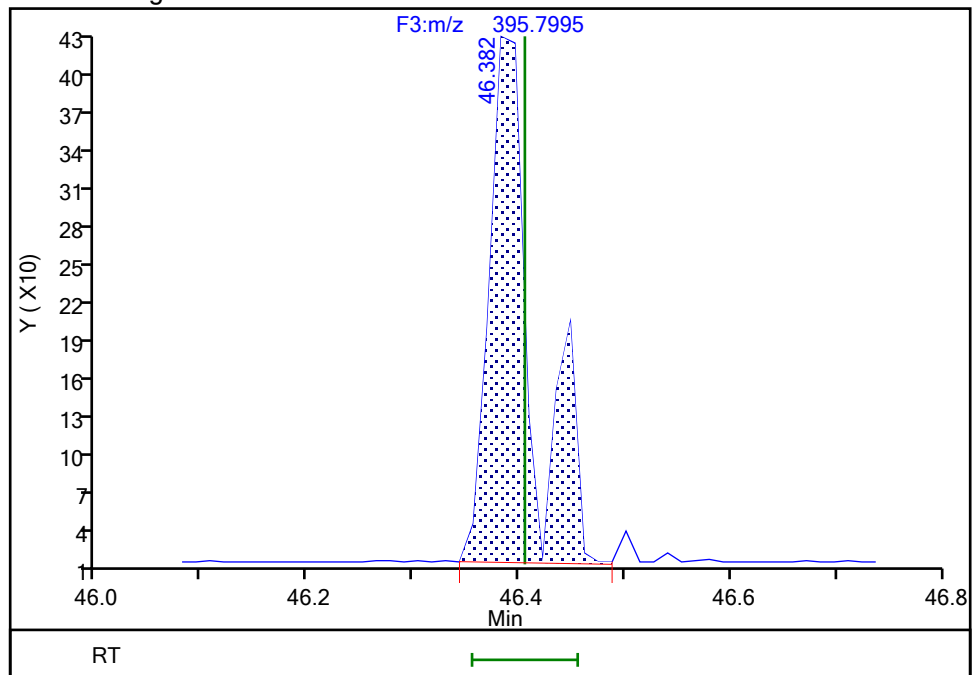
RT: 46.38
Area: 895
Amount: 0.045352
Amount Units: pg/ul

Processing Integration Results



RT: 46.38
Area: 1157
Amount: 0.075732
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:20:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

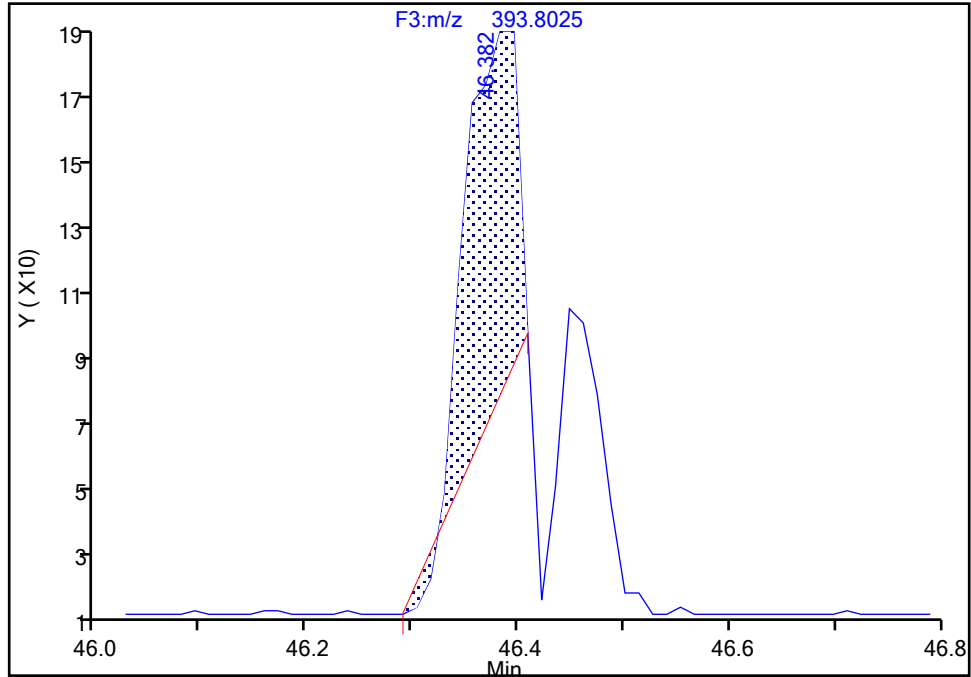
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Injection Date: 16-Jul-2024 08:02:00 Instrument ID: D2D
Lims ID: 140-37232-A-6-D Lab Sample ID: 140-37232-6
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

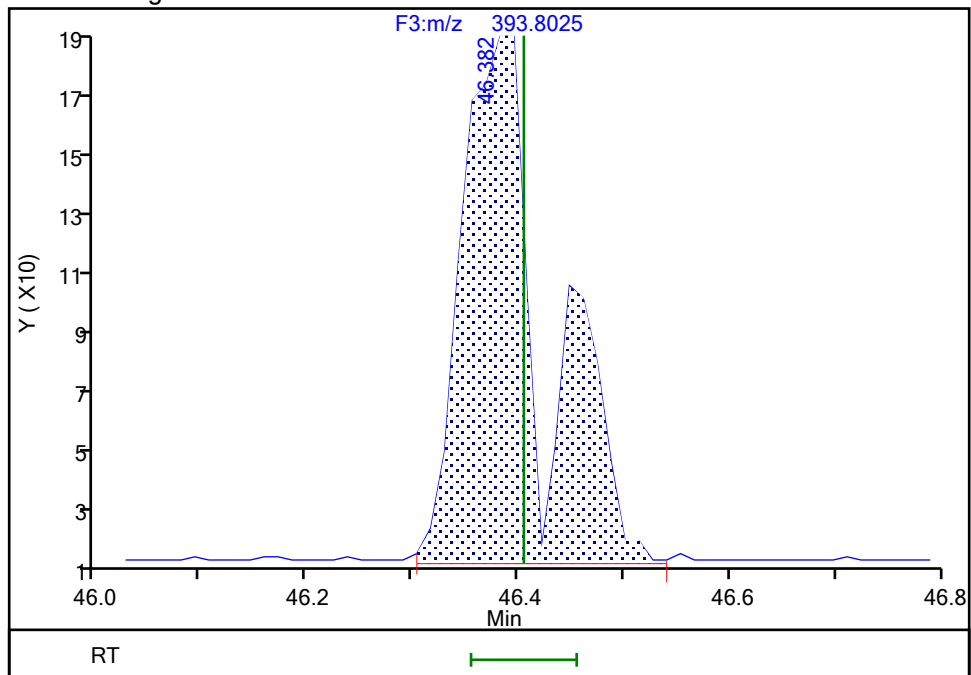
RT: 46.38
Area: 350
Amount: 0.045352
Amount Units: pg/ul

Processing Integration Results



RT: 46.38
Area: 922
Amount: 0.075732
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 00:20:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1446 of 3050

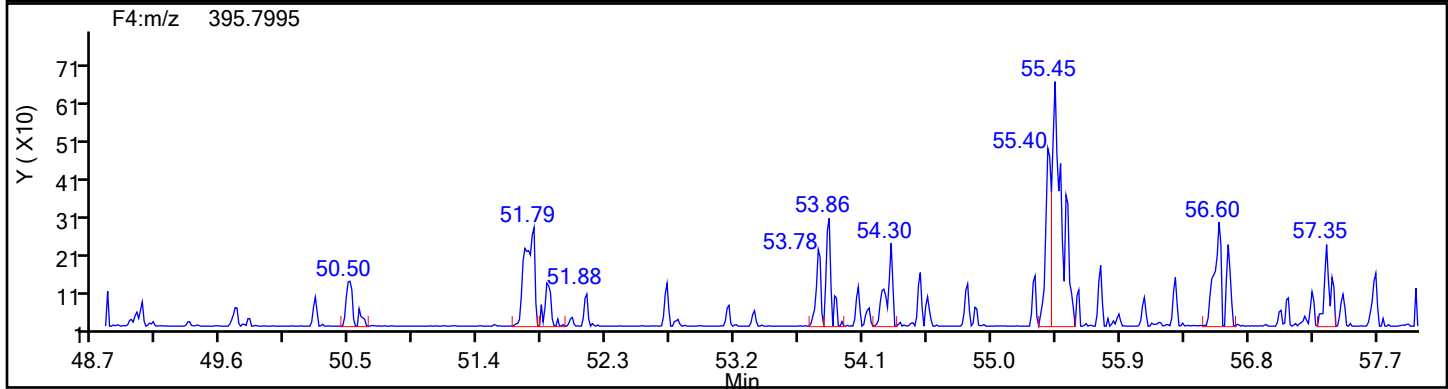
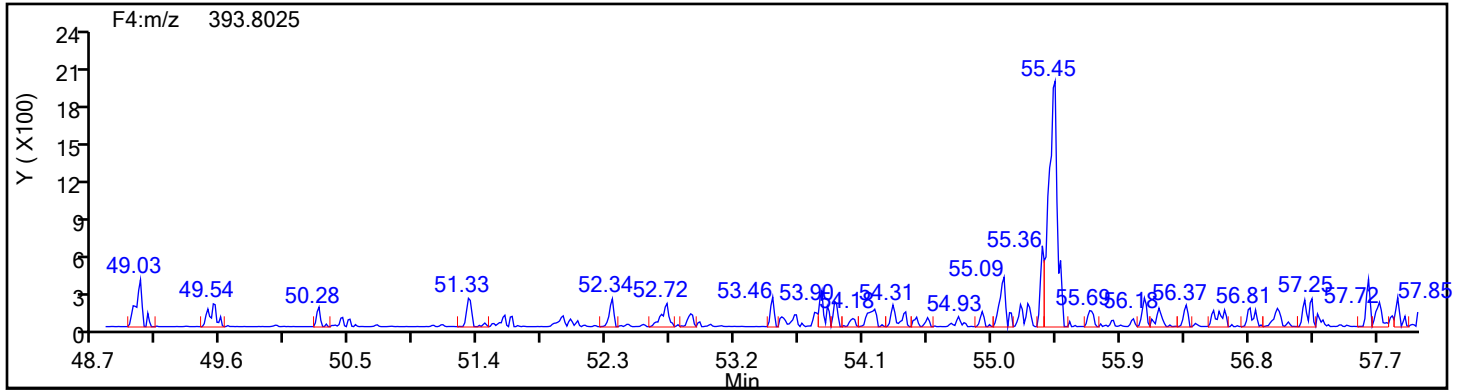
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9/6/2024

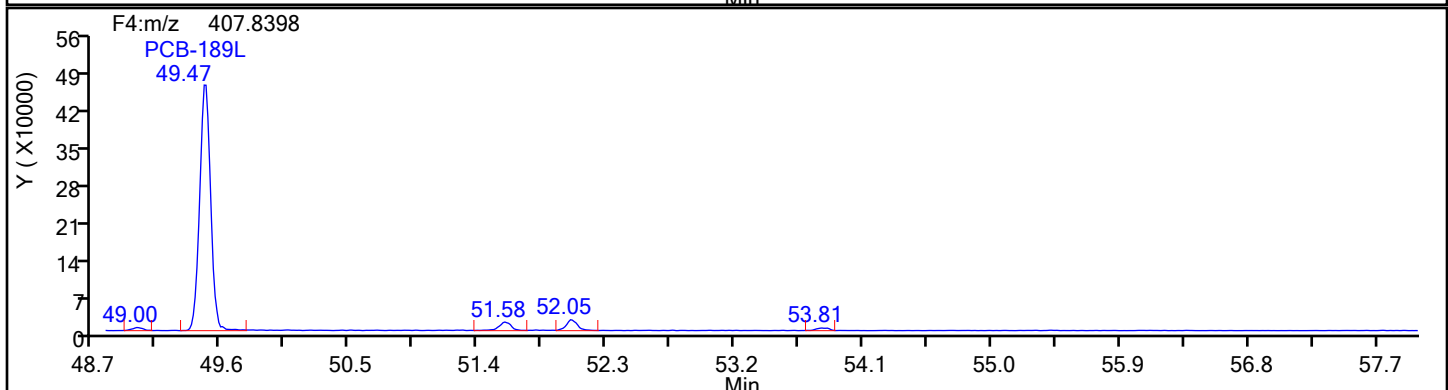
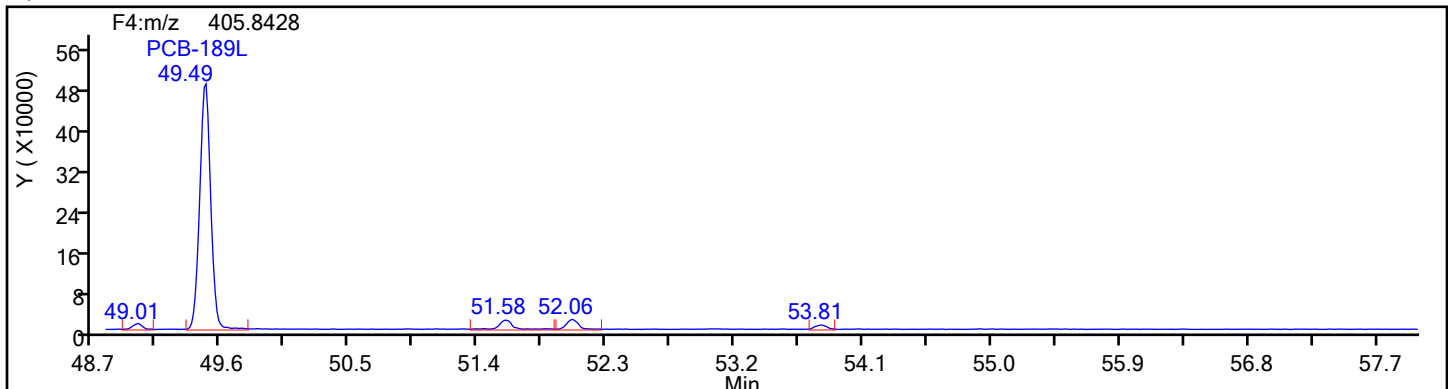
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

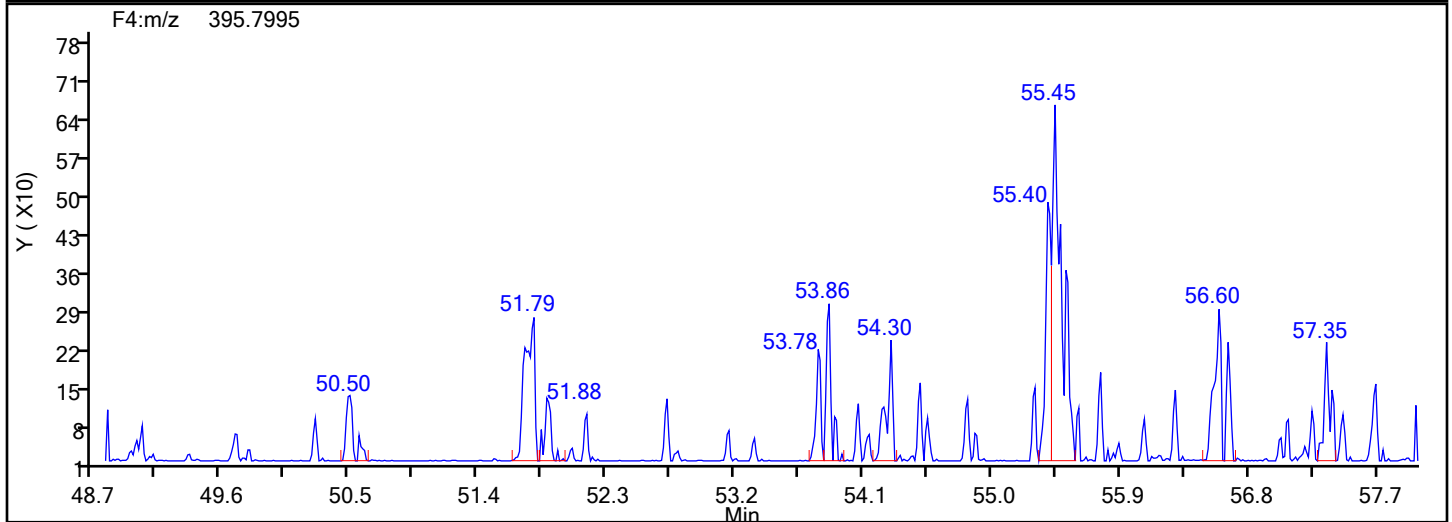
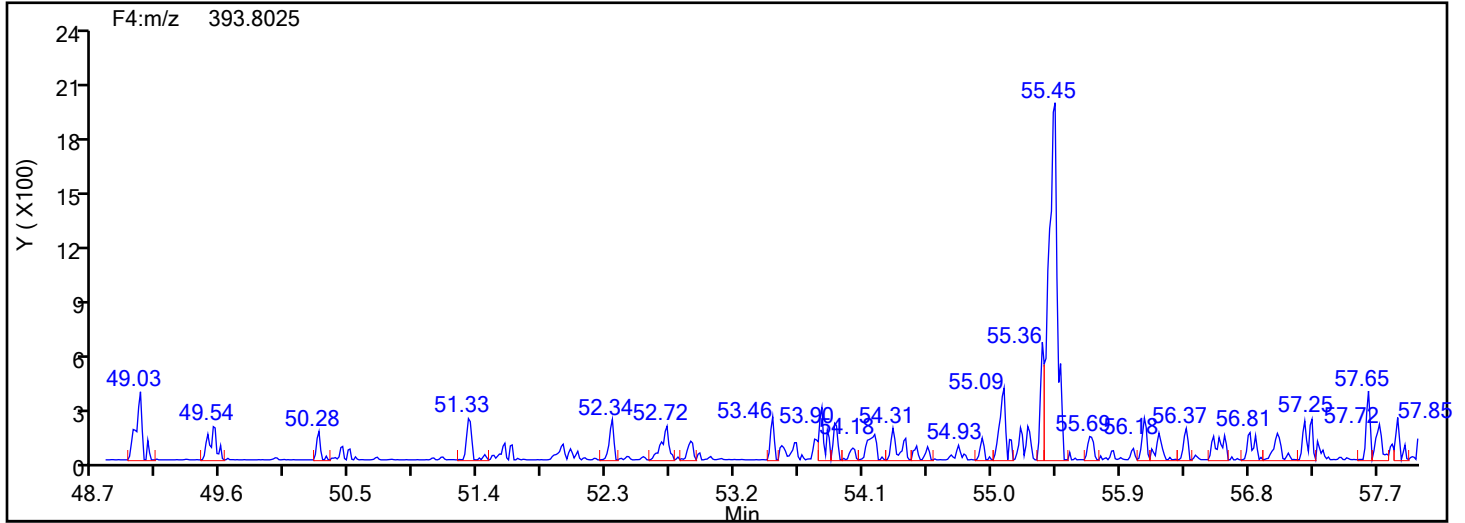


HpPCB F4 Standards

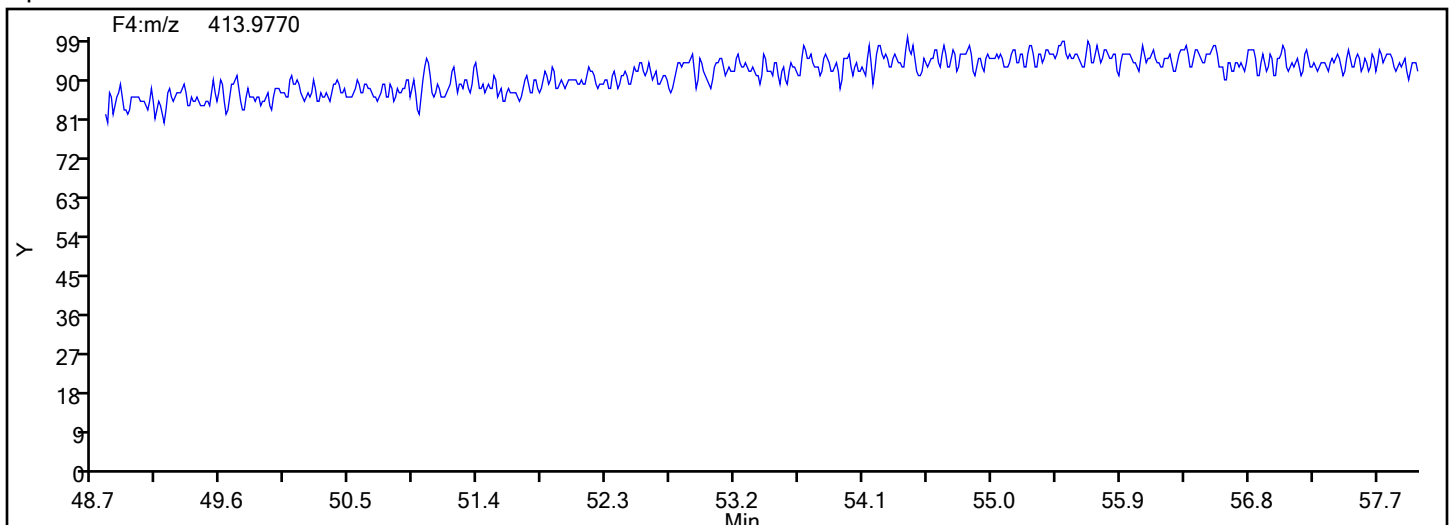


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

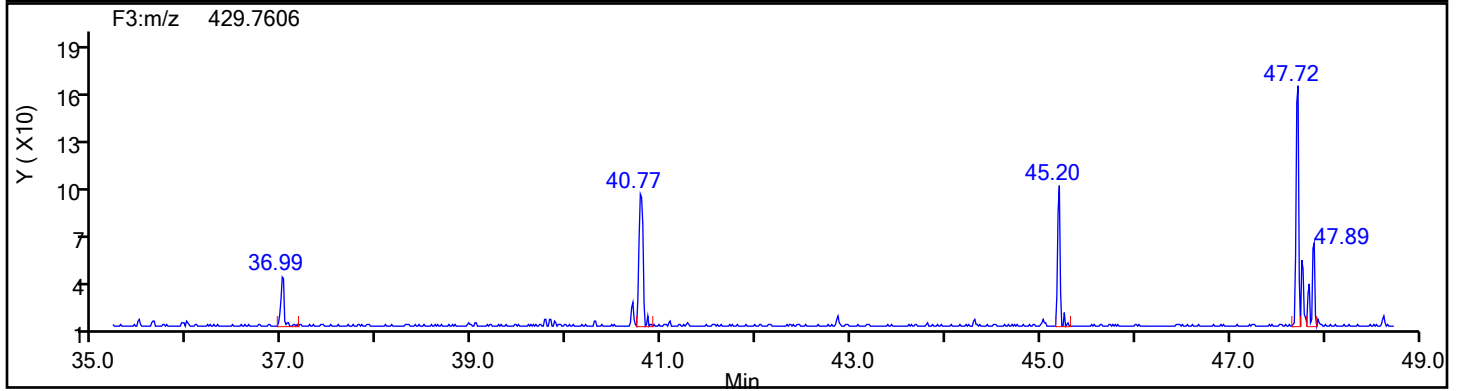
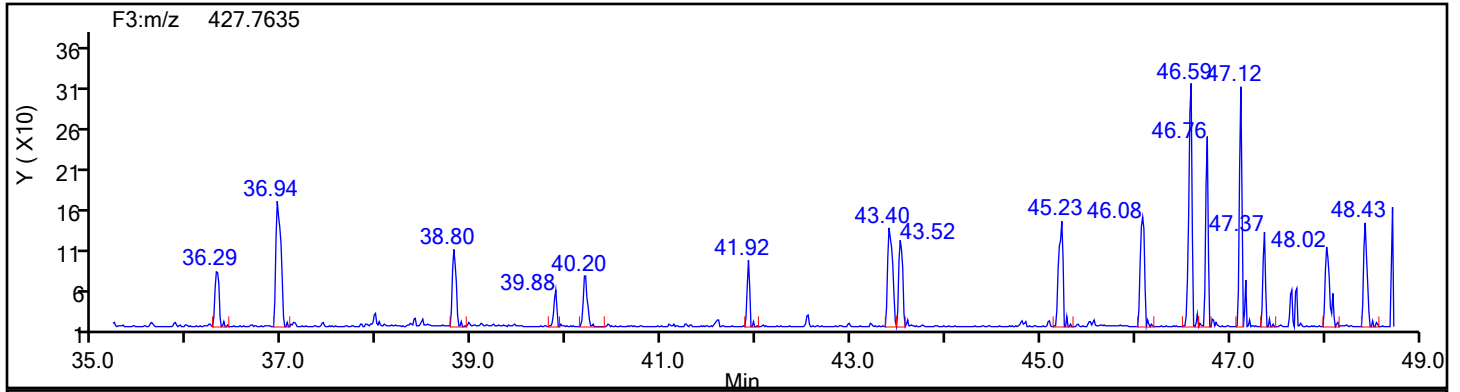


HpPCB F4 Lock Mass

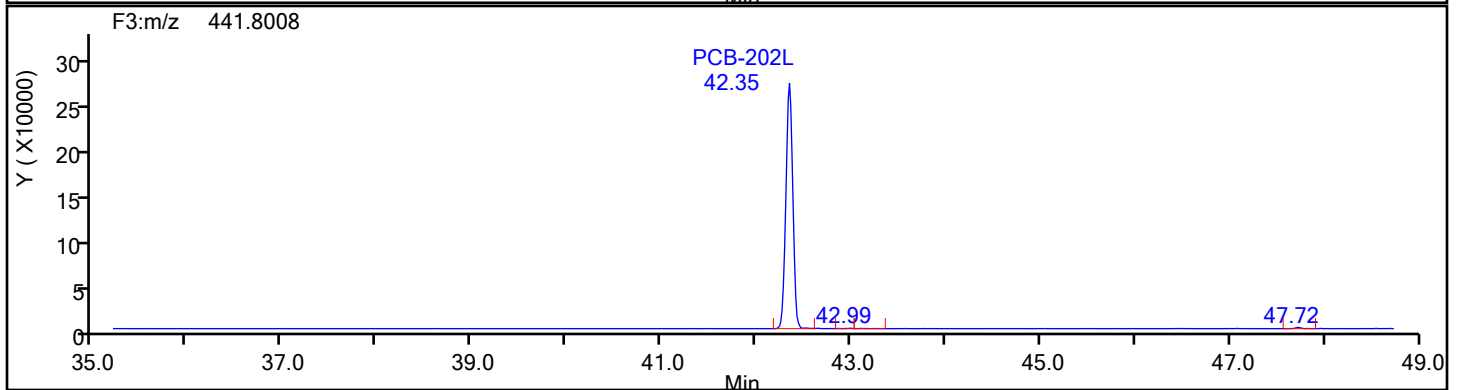
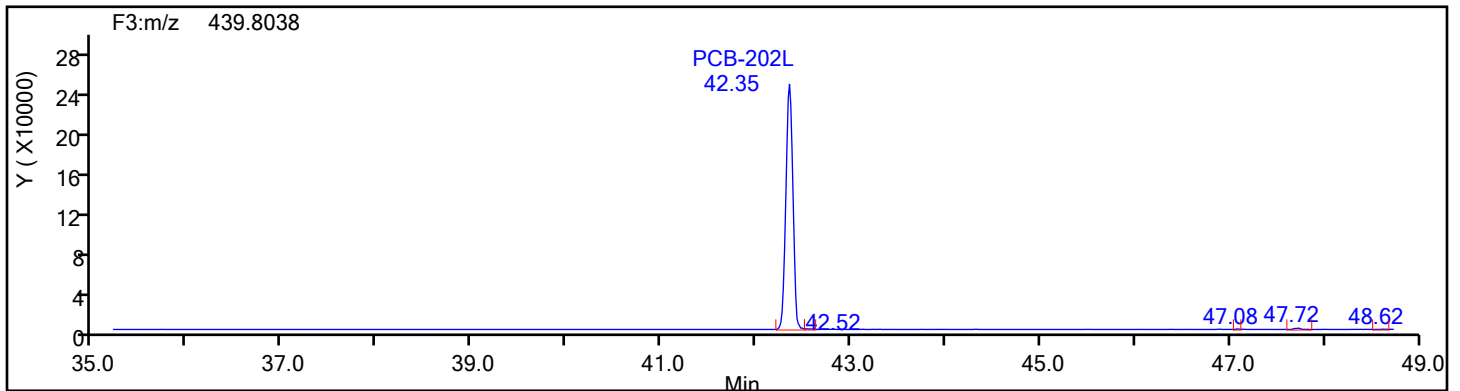


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

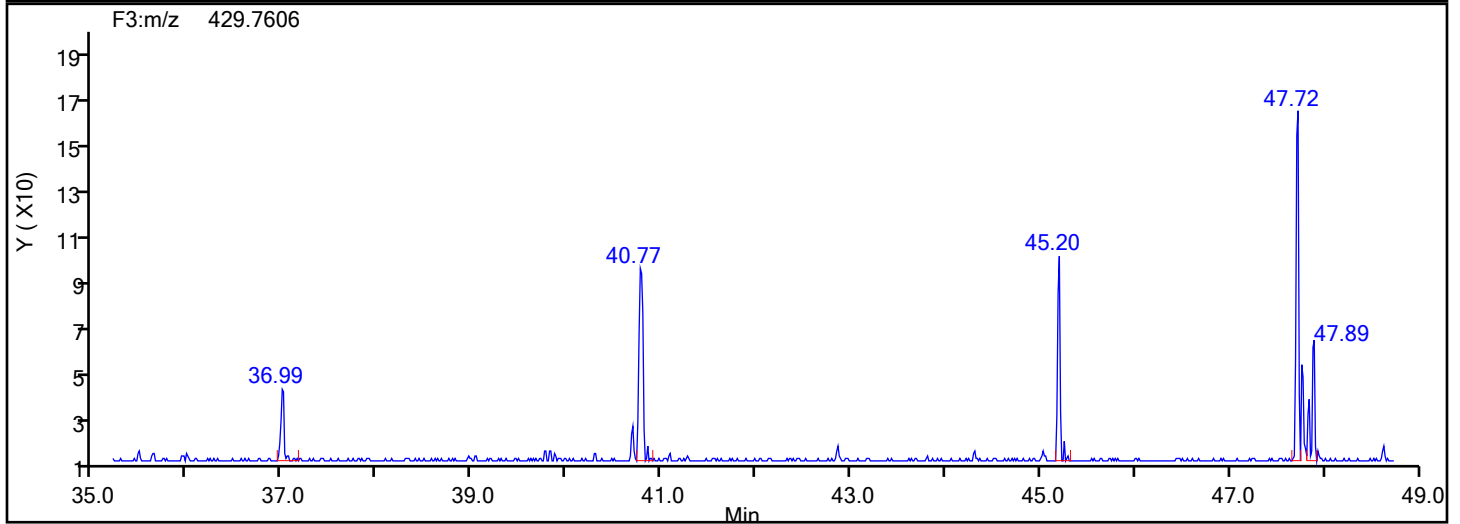
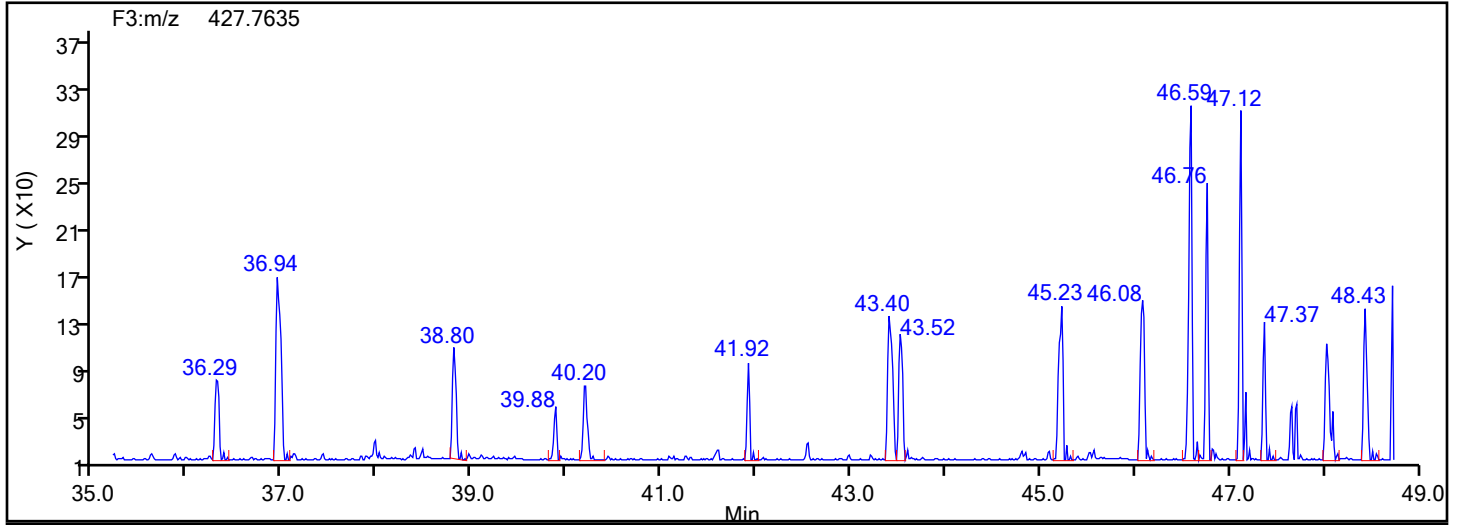


OcPCB F3 Standards

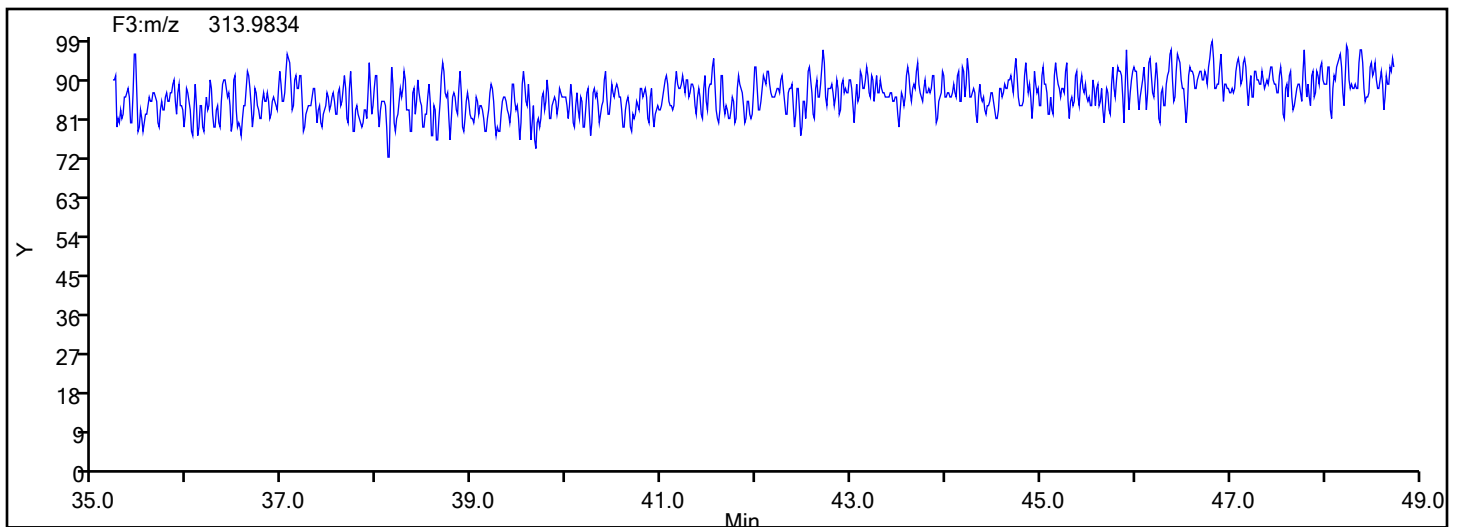


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

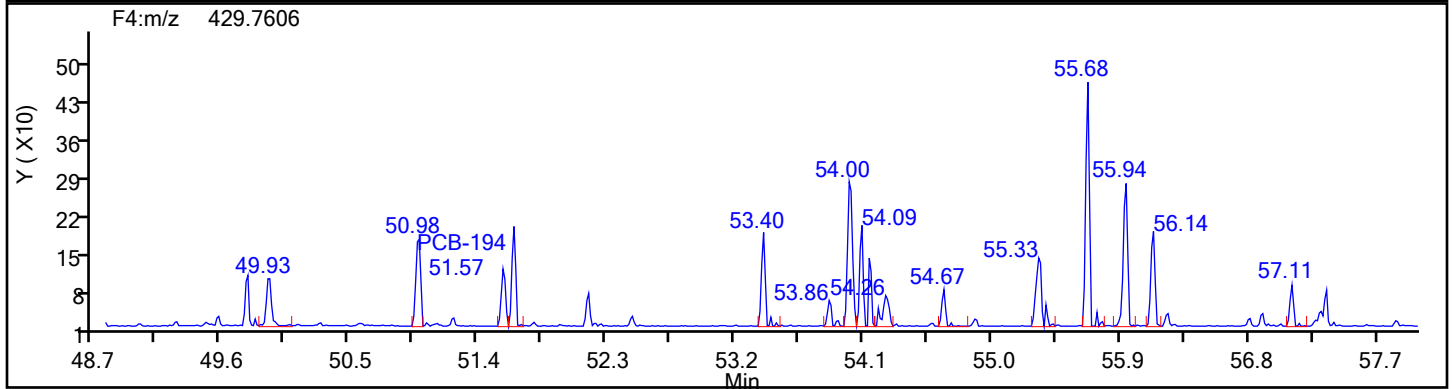
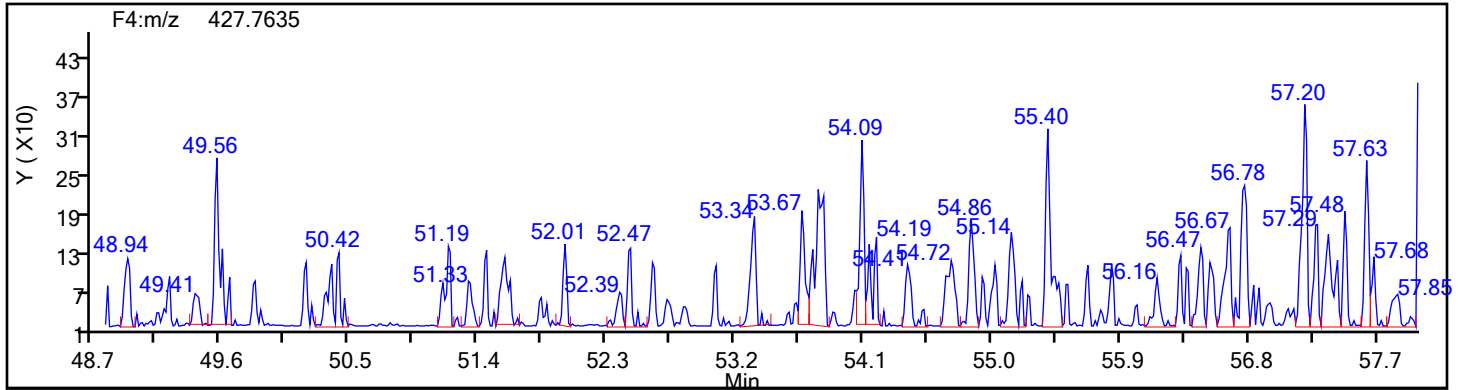


OcPCB F3 Lock Mass

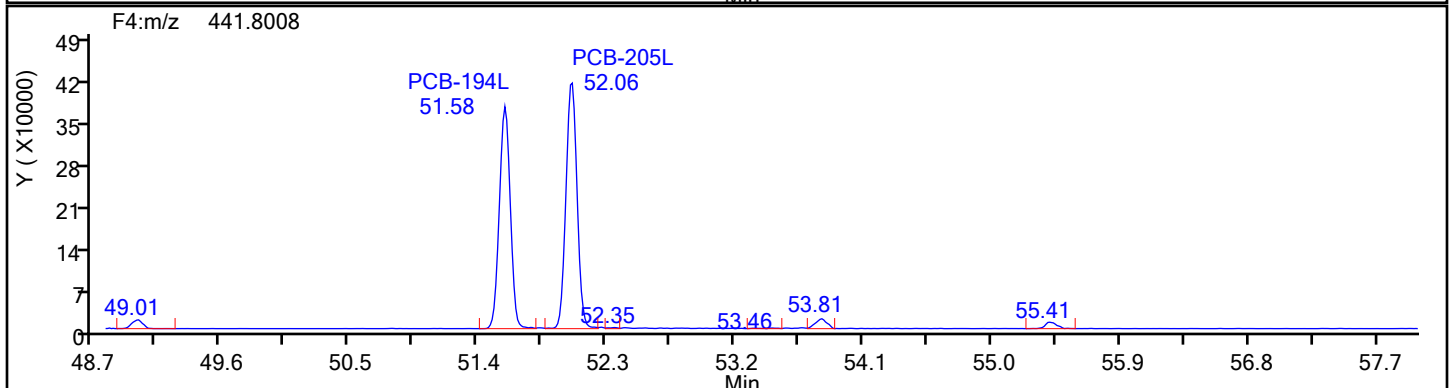
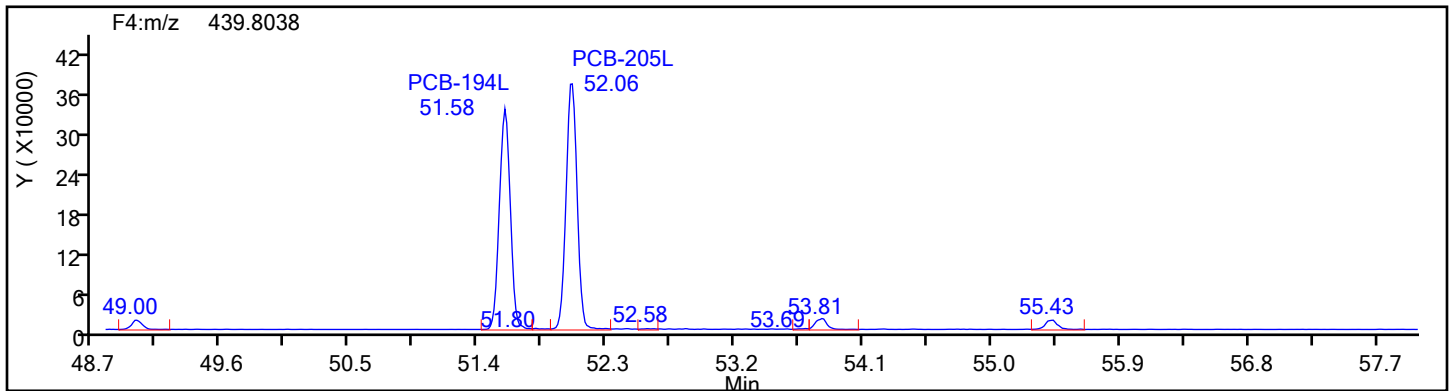


Eurofins Knoxville

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Injection Date: 16-Jul-2024 08:02:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

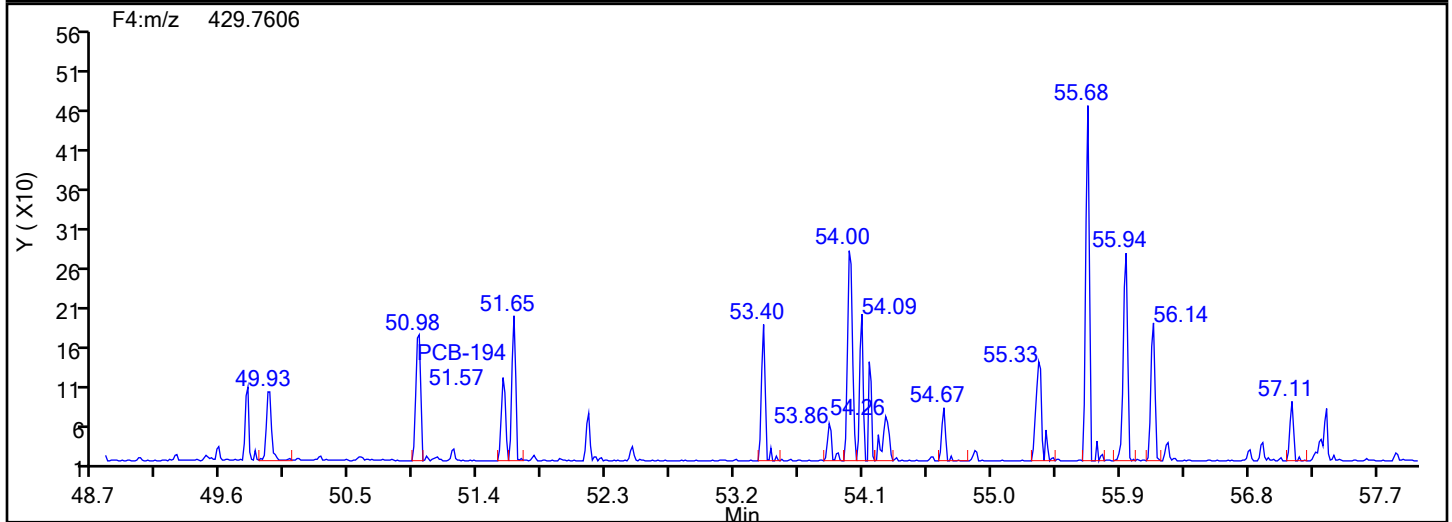
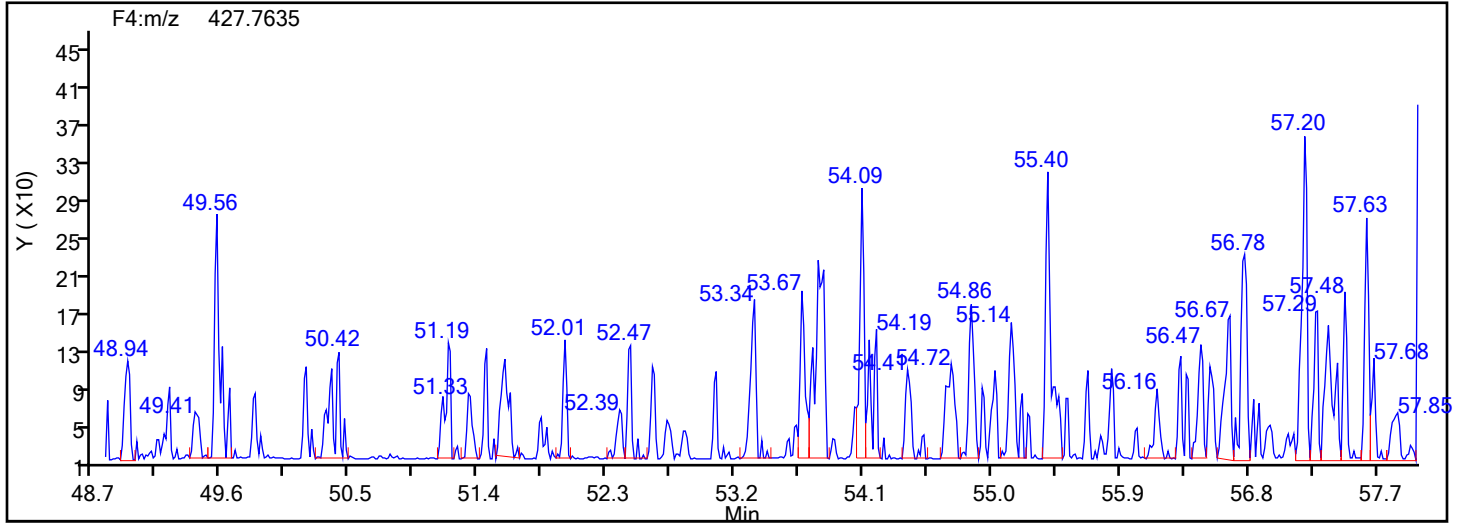


OcPCB F4 Standards

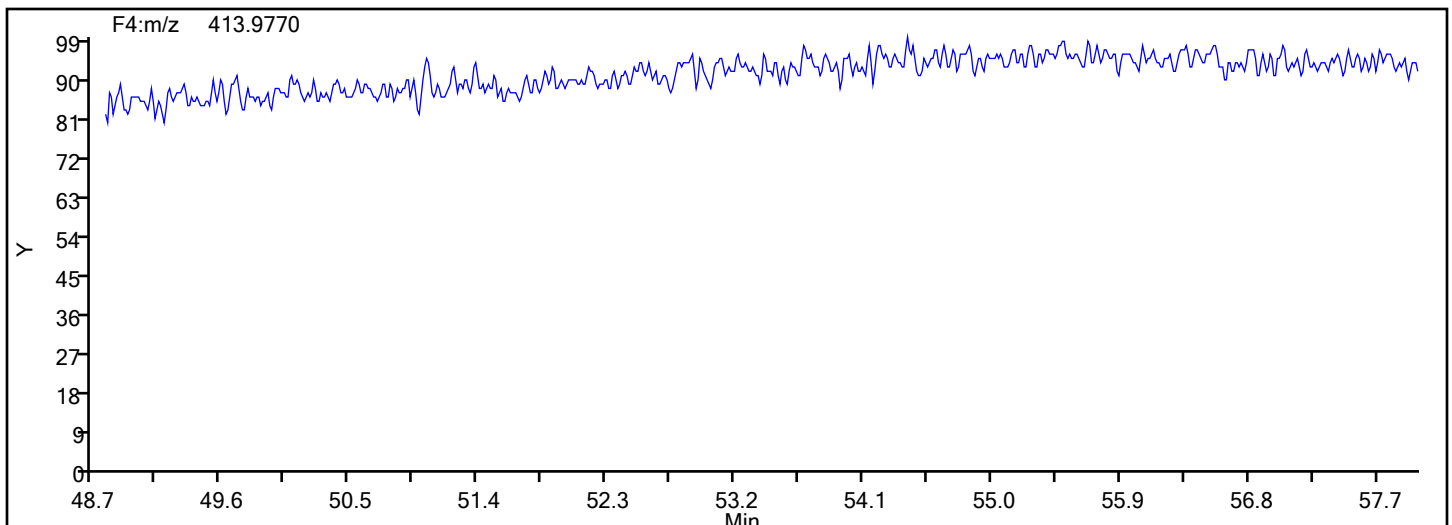


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

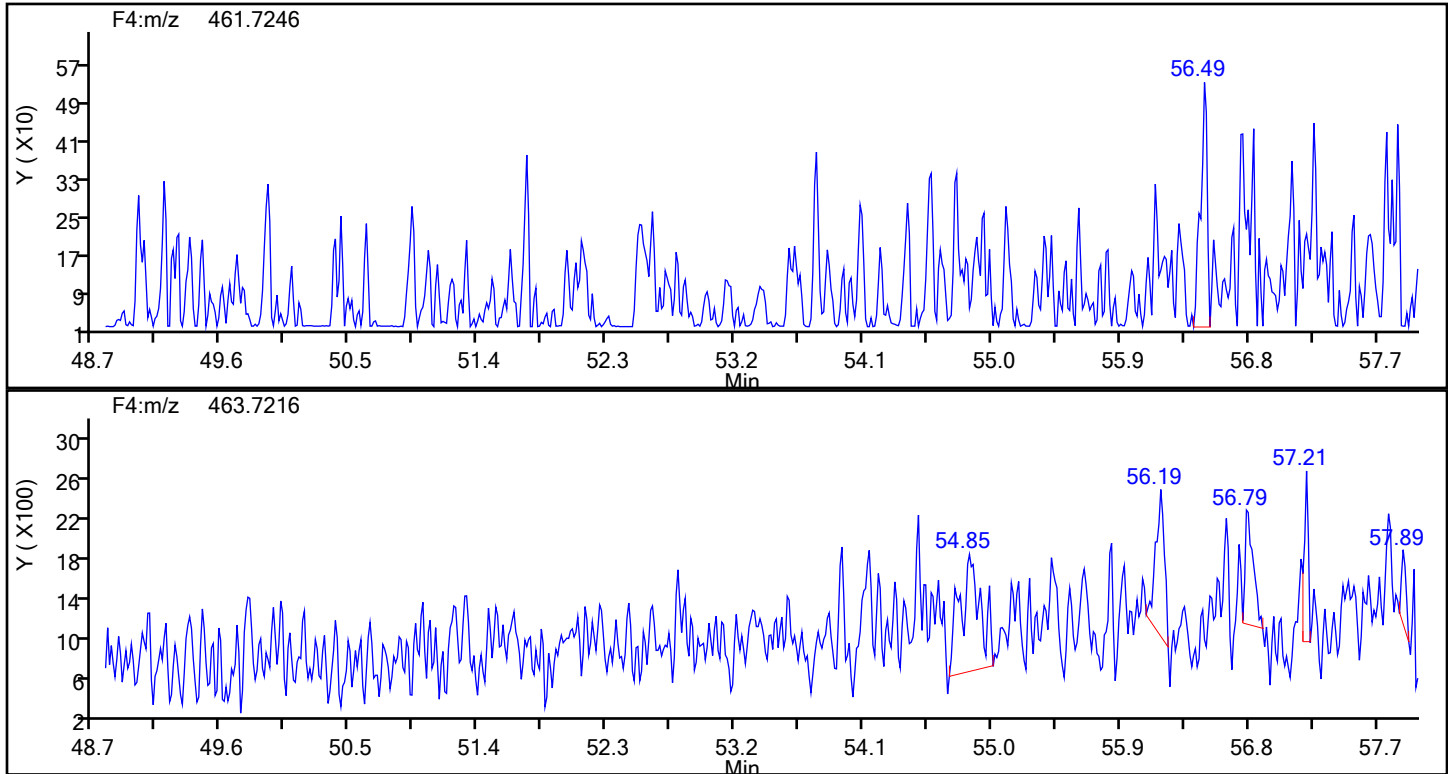


OcPCB F4 Lock Mass

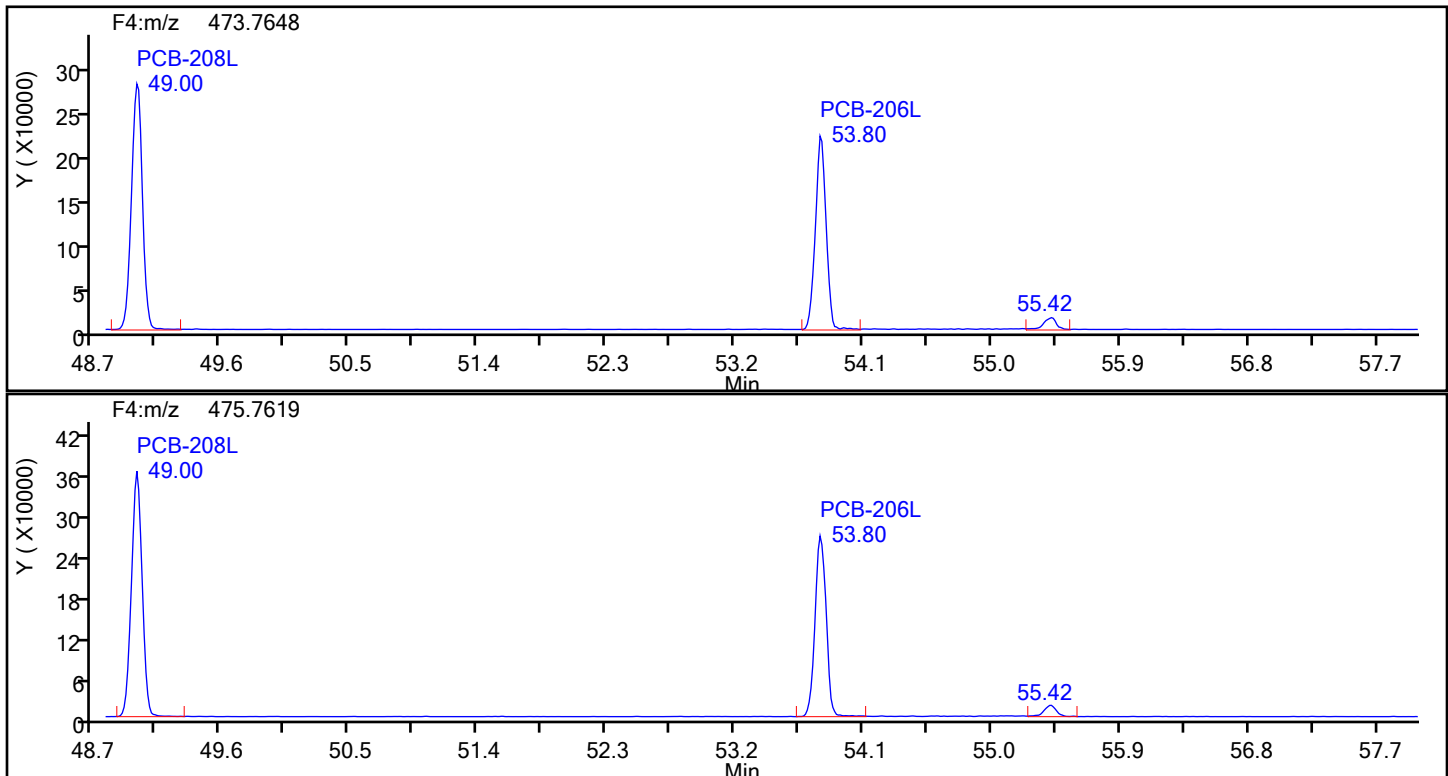


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

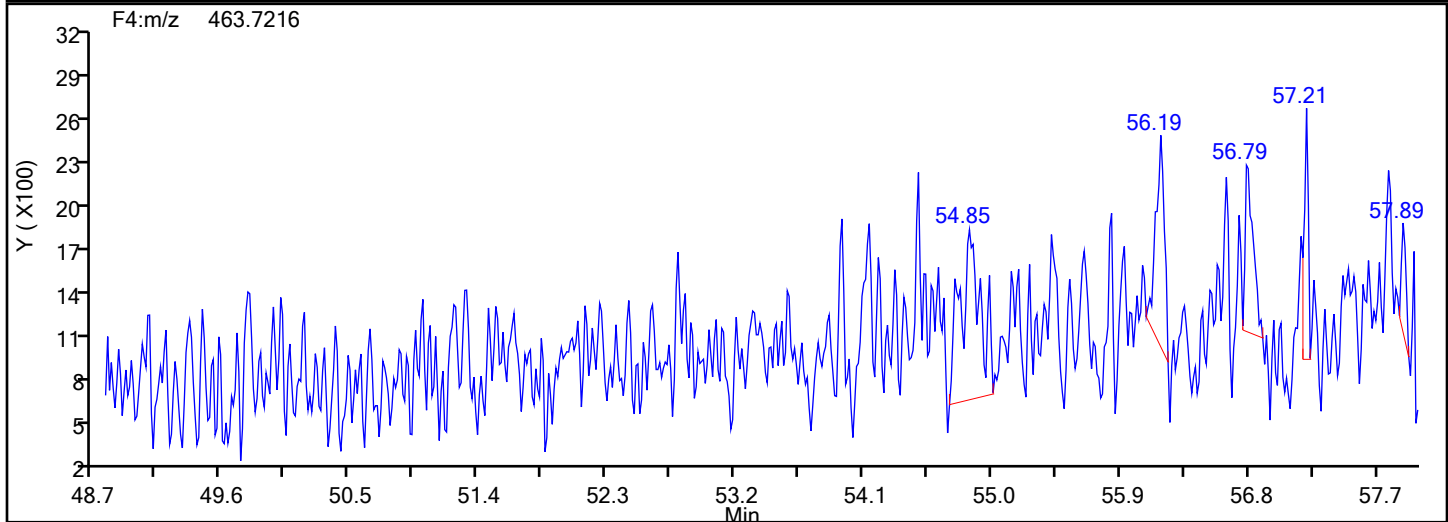
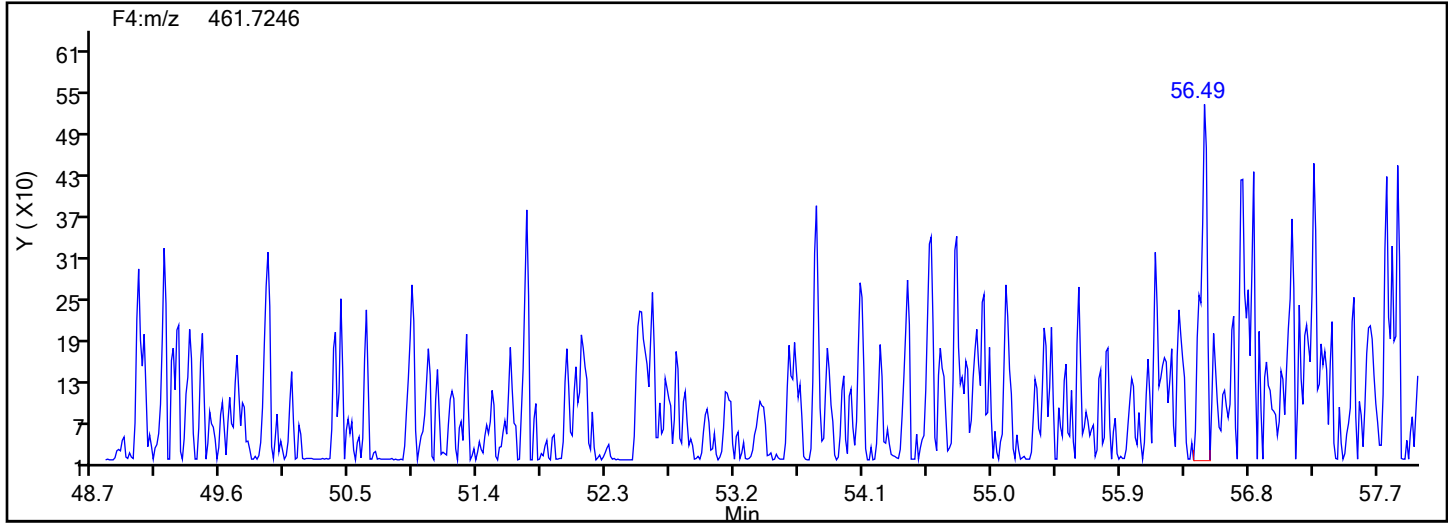


NoPCB F4 Standards

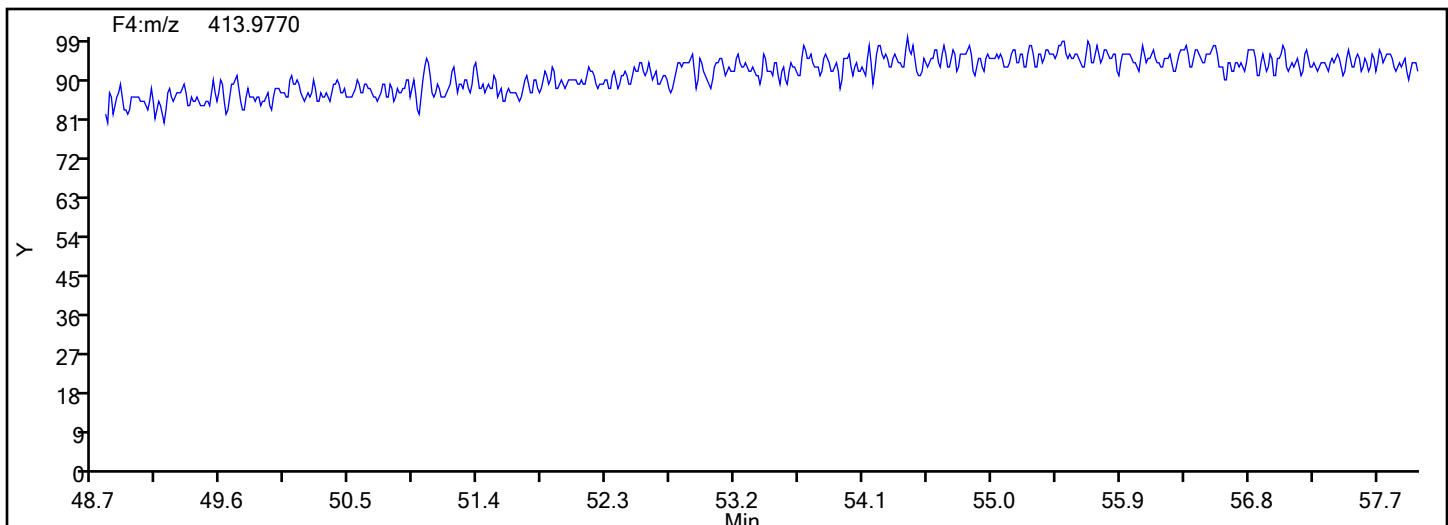


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

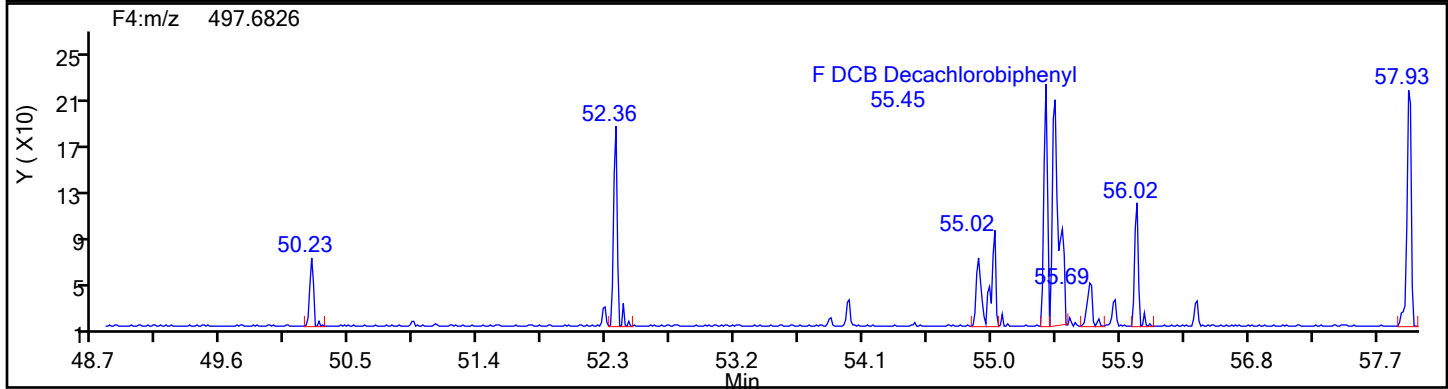
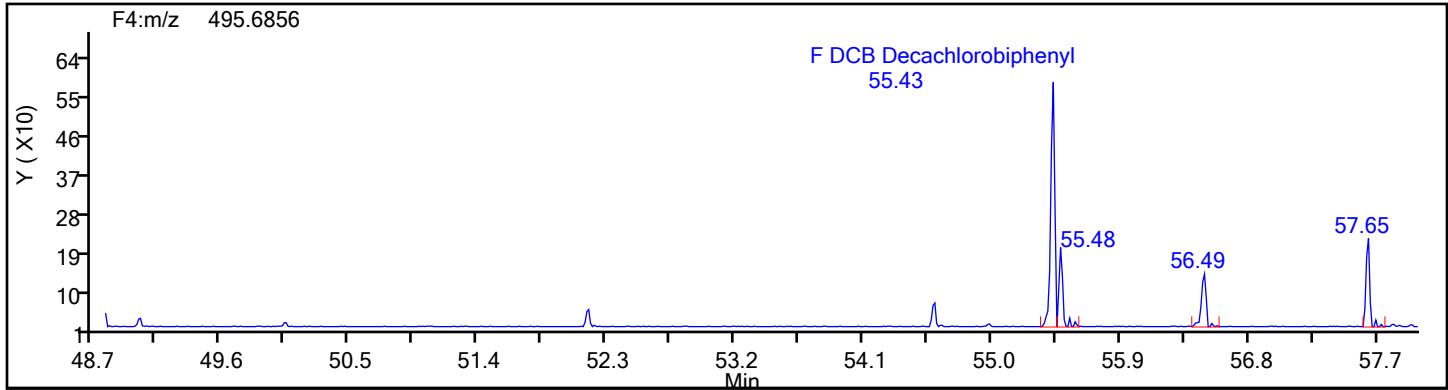


NoPCB F4 Lock Mass

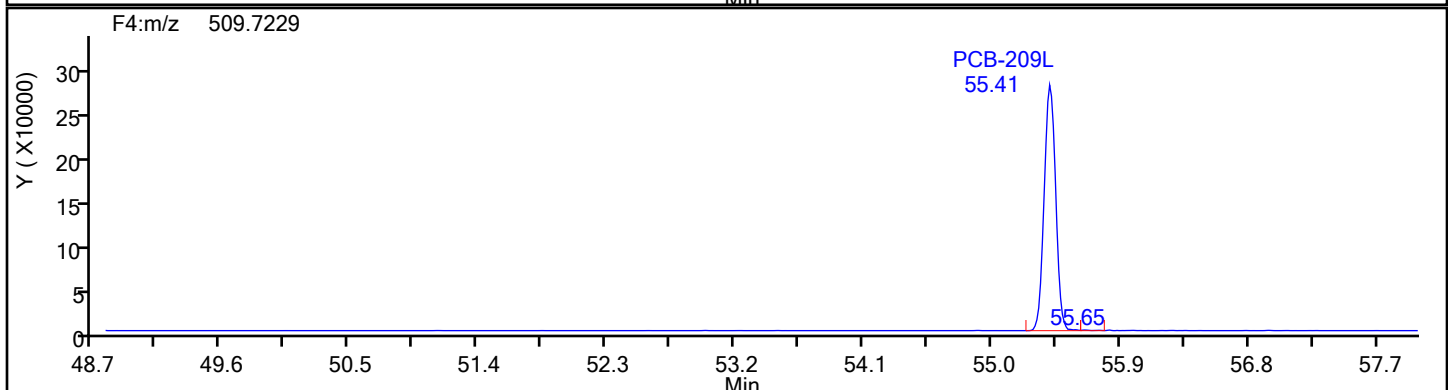
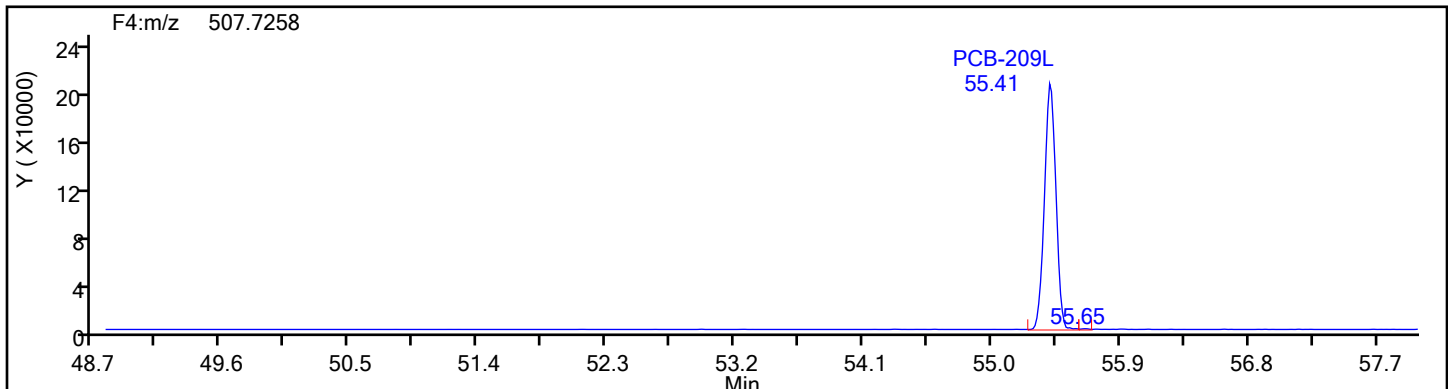


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

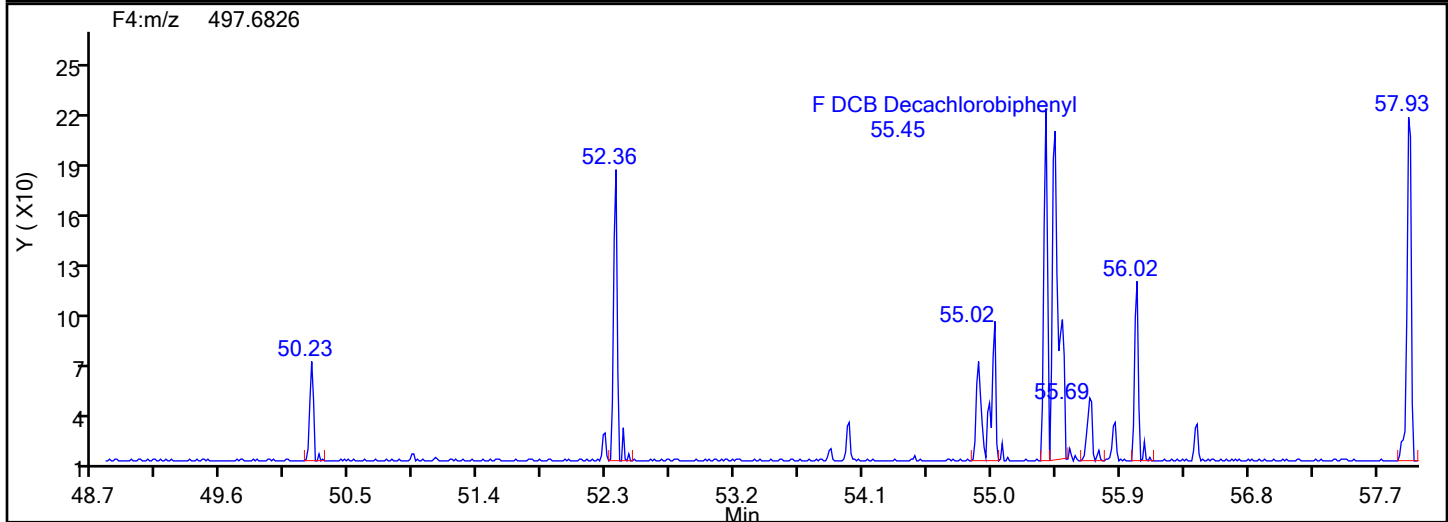
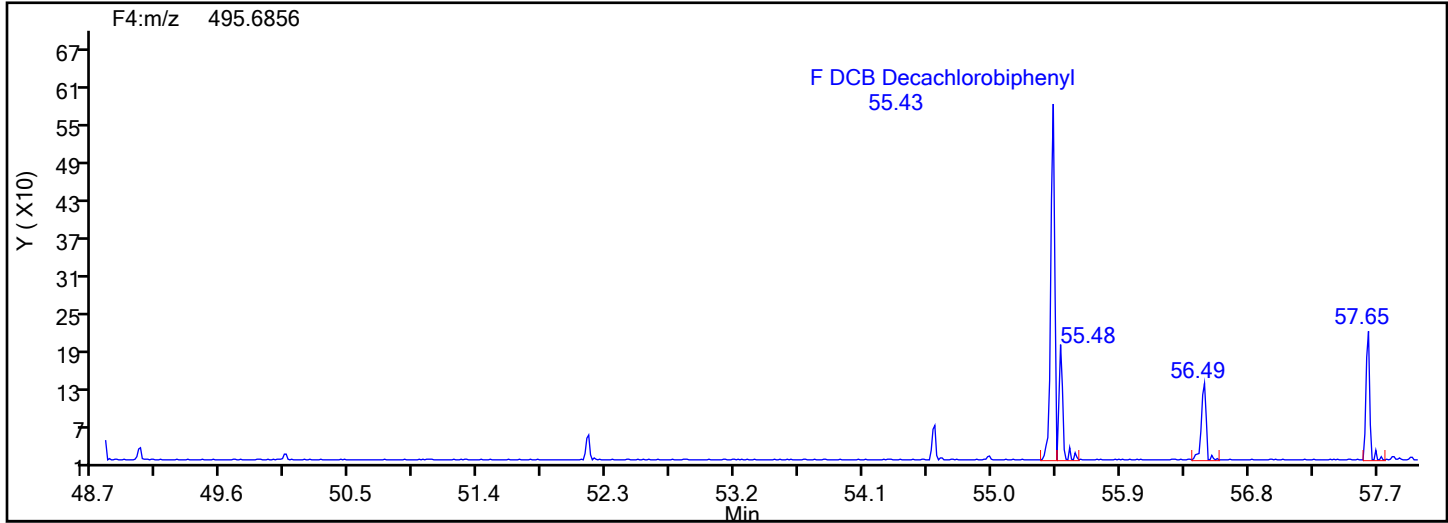


DePCB F4 Standards

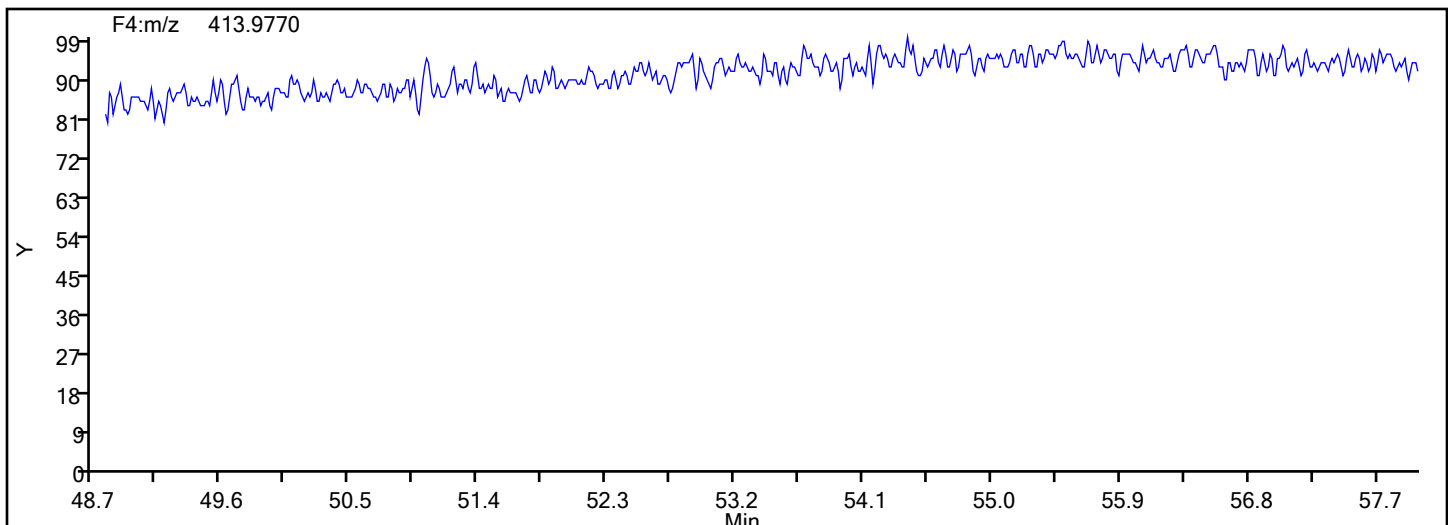


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Worklist#: 88780 Sample Line#: 11
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-6-d.d
Lims ID: 140-37232-A-6-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 08:02:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-011
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:00:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:00:42

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	50.7	101.32
PCB-28L	100.0	72.3	72.30
PCB-79L	50.0	57.6	115.29
PCB-95L	50.0	57.6	115.13
PCB-111L	100.0	80.3	80.32
PCB-153L	50.0	50.2	100.34
PCB-178L	100.0	82.3	82.33

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 7 - COMBINED</u>	Lab Sample ID: <u>140-37232-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-7-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 13:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 09:03</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.371	J	0.600	0.132	0.0189
37680-65-2	PCB-18	0.370	J C S	0.600	0.285	0.00904
7012-37-5	PCB-28	0.855	B C20	0.600	0.252	0.0124
41464-39-5	PCB-44	2.42	C B	0.900	0.390	0.0188
35693-99-3	PCB-52	0.718		0.300	0.132	0.0199
32598-10-0	PCB-66	0.347		0.300	0.120	0.0146
32598-13-3	PCB-77	0.0399	J q	0.300	0.126	0.0166
70362-50-4	PCB-81	ND		0.300	0.0960	0.0173
37680-73-2	PCB-101	0.217	J C90	0.900	0.390	0.00619
32598-14-4	PCB-105	0.0579	J q	0.300	0.102	0.0149
74472-37-0	PCB-114	ND		0.300	0.165	0.0144
31508-00-6	PCB-118	0.144	J	0.300	0.183	0.0148
65510-44-3	PCB-123	ND		0.300	0.171	0.0162
57465-28-8	PCB-126	ND		0.300	0.123	0.0179
38380-07-3	PCB-128	0.0264	J C B	0.600	0.204	0.00748
35065-28-2	PCB-138	0.171	J C129	1.20	0.510	0.00777
35065-27-1	PCB-153	0.0882	J C B q	0.600	0.249	0.00672
38380-08-4	PCB-156	0.0146	J C q	0.600	0.255	0.00774
69782-90-7	PCB-157	0.0146	J C156 q	0.600	0.255	0.00774
52663-72-6	PCB-167	ND		0.300	0.180	0.00563
32774-16-6	PCB-169	ND		0.300	0.123	0.00564
35065-30-6	PCB-170	0.0129	J	0.300	0.132	0.000282
35065-29-3	PCB-180	0.0237	J C	0.600	0.204	0.000207
52663-68-0	PCB-187	0.0122	J	0.300	0.126	0.000219
39635-31-9	PCB-189	ND		0.300	0.147	0.00233
52663-78-2	PCB-195	ND		0.300	0.159	0.00545
40186-72-9	PCB-206	ND		0.300	0.171	0.0334
2051-24-3	PCB-209	0.0174	J q	0.300	0.138	0.000853

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN 7 - COMBINED</u>	Lab Sample ID: <u>140-37232-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-7-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 13:15</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 09:03</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	55		20-145
208263-77-8	PCB-3L	64		20-145
234432-86-1	PCB-4L	64		20-145
208263-67-6	PCB-15L	70		20-145
234432-87-2	PCB-19L	71		20-145
208263-79-0	PCB-37L	70		20-145
234432-88-3	PCB-54L	89		20-145
105600-23-5	PCB-77L	76		20-145
208461-24-9	PCB-81L	76		20-145
234432-89-4	PCB-104L	91		20-145
208263-62-1	PCB-105L	92		20-145
208263-63-2	PCB-114L	98		20-145
104130-40-7	PCB-118L	89		20-145
208263-64-3	PCB-123L	89		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	98	C	20-145
235416-30-5	PCB-157L	98	C156	20-145
208263-69-8	PCB-167L	87		20-145
208263-70-1	PCB-169L	89		20-145
160901-80-4	PCB-170L	91		20-145
234432-91-8	PCB-188L	98		20-145
208263-73-4	PCB-189L	93		20-145
105600-26-8	PCB-202L	87		20-145
234446-64-1	PCB-205L	91		20-145
208263-75-6	PCB-206L	95		20-145
234432-92-9	PCB-208L	93		20-145
105600-27-9	PCB-209L	104		20-145

FORM I

Lab Name: Eurofins Knoxville	Job No.: 140-37232-1
SDG No.:	
Client Sample ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Lab Sample ID: 140-37232-7
Matrix: Air	Lab File ID: 140-37232-a-7-d.d
Analysis Method: 23	Date Collected: 06/14/2024 13:15
Extract. Method: Combined Prep	Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1 (Sample)	Date Analyzed: 07/16/2024 09:03
Con. Extract Vol.: 30 (mL)	Dilution Factor: 1
Injection Volume: 1 (uL)	GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: % Solids:	GPC Cleanup: (Y/N) N
Cleanup Factor:	Level: (low/med) Low
Analysis Batch No.: 88780	Units: ng/Sample
Preparation Batch No.: 88193	Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		20-130
235416-29-2	PCB-111L	81		20-130
232919-67-4	PCB-178L	82		20-130
STL01600	PCB-8L	100		70-130
STL01603	PCB-79L	117		70-130
STL01604	PCB-95L	115		70-130
STL01606	PCB-153L	100		70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
 Lims ID: 140-37232-A-7-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
 Sample Type: Client
 Inject. Date: 16-Jul-2024 09:03:00 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033514-012
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 17-Jul-2024 01:15:12 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:15:12

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.225	2.164	0.0334	0.0334		RQ
D PCB-1L	11:38	5958973	3.19	1.6108	54.9	54.9	0.4786	0.4786	54.92	
D PCB-3L	13:46	6875124	3.28	1.5891	64.2	64.2	0.4852	0.4852	64.23	
PCB-1	11:39	62922	3.13	1.2191	0.9274	0.8661	0.0322	0.0322		RQM
PCB-2	13:36	42693	2.76	1.1805	0.5636	0.5636	0.0341	0.0341		
PCB-3	13:47	61578	3.29	1.2206	0.7338	0.7338	0.0339	0.0339		
S Total Dichlorobiphenyls					15.7	15.6	0.0725	0.0725		RQ
D PCB-4L	14:02	2783102	1.62	0.6475	63.8	63.8	0.1769	0.1769	63.81	
* PCB-9L	16:01	6735863	1.61		100.0	100.0				
\$ PCB-8L	16:54	2369454	1.60	1.2066	50.0	50.0	0.1538	0.1538	99.95	a
D PCB-15L	20:07	5076105	1.62	1.0789	69.8	69.8	0.1062	0.1062	69.85	a
PCB-4	14:03	20494	1.56	1.2818	0.6683	0.5745	0.0802	0.0802		RQ
PCB-10	14:13						0.0759	0.0759		
PCB-9	15:59						0.0702	0.0702		
PCB-7	16:12	26089	1.36	1.4134	0.4697	0.4697	0.0706	0.0706		M
PCB-6	16:29	32058	1.70	1.5421	0.5290	0.5290	0.0647	0.0647		a
PCB-5	16:43						0.0745	0.0745		
PCB-8	16:56	77193	1.68	1.5889	1.236	1.236	0.0628	0.0628		a
PCB-14	18:26						0.0712	0.0712		
PCB-11	19:32	609914	1.53	1.2951	12.0	12.0	0.0771	0.0771		a
PCB-12	19:46	18298	1.52	1.3358	0.3486	0.3486	0.0747	0.0747		a
PCB-13 (C12)	19:46	18298	1.52	1.3358	0.3486	0.3486	0.0747	0.0747		a
PCB-15	20:06	32821	1.52	1.2903	0.5011	0.5011	0.0752	0.0752		Ma
S Total Trichlorobiphenyls					14.9	14.7	0.0402	0.0402		RQ
D PCB-19L	17:14	1917719	1.06	0.6285	70.8	70.8	0.4562	0.4562	70.83	
* PCB-32L	20:32	4307298	1.06		100.0	100.0				
* PCB-31L	22:42	12018843	1.05		100.0	100.0				
\$ PCB-28L	22:59	9129906	1.06	1.0494	72.4	72.4	0.1095	0.1095	72.39	
D PCB-37L	26:56	7390216	1.04	0.8749	70.3	70.3	0.1313	0.1313	70.28	
PCB-19	17:14	4205	1.04	1.2809	0.2216	0.1712	0.0415	0.0415		RQ
PCB-18	19:16	41750	1.17	1.7652	1.233	1.233	0.0301	0.0301		M
PCB-30 (C18)	19:16	41750	1.17	1.7652	1.233	1.233	0.0301	0.0301		M
PCB-17	19:38	29898	1.11	1.2430	1.254	1.254	0.0428	0.0428		a
PCB-27	19:50	5612	1.04	1.8327	0.1597	0.1597	0.0290	0.0290		a

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:50						0.0317	0.0317		U
PCB-16	20:05	24273	1.03	1.1286	1.122	1.122	0.0471	0.0471		a
PCB-32	20:33	22848	1.04	1.8324	0.7431	0.6502	0.0290	0.0290		RQa
PCB-34	21:36						0.0429	0.0429		
PCB-23	21:45						0.0447	0.0447		
PCB-26	22:11	42050	0.88	1.1255	0.5056	0.5056	0.0430	0.0430		M
PCB-29 (C26)	22:11	42050	0.88	1.1255	0.5056	0.5056	0.0430	0.0430		M
PCB-25	22:25	22132	0.92	1.2728	0.2353	0.2353	0.0380	0.0380		Ma
PCB-31	22:43	272617	0.99	1.1532	3.199	3.199	0.0420	0.0420		a
PCB-20	23:00	246755	1.01	1.1718	2.849	2.849	0.0413	0.0413		
PCB-28 (C20)	23:00	246755	1.01	1.1718	2.849	2.849	0.0413	0.0413		
PCB-21	23:15	145359	0.90	1.0746	1.830	1.830	0.0450	0.0450		Ma
PCB-33 (C21)	23:15	145359	0.90	1.0746	1.830	1.830	0.0450	0.0450		Ma
PCB-22	23:38	84845	0.95	1.1932	0.9621	0.9621	0.0406	0.0406		M
PCB-36	25:05						0.0437	0.0437		
PCB-39	25:27						0.0418	0.0418		
PCB-38	26:01						0.0446	0.0446		
PCB-35	26:33	13975	1.04	1.1297	0.1856	0.1674	0.0428	0.0428		RQ
PCB-37	26:56	33629	0.89	1.1435	0.3979	0.3979	0.0423	0.0423		
S Total Tetrachlorobiphenyls					23.9	23.6	0.0555	0.0555		RQ
D PCB-54L	20:24	2142903	0.80	0.5562	89.4	89.4	0.0734	0.0734	89.44	a
* PCB-52L	24:46	5782718	0.80		100.0	100.0				
\$ PCB-79L	32:38	3301553	0.80	1.0018	58.5	58.5	0.5233	0.5233	117	
D PCB-81L	33:37	5457330	0.80	1.2470	75.7	75.7	0.3371	0.3371	75.68	
D PCB-77L	34:11	5817965	0.81	1.3212	76.2	76.2	0.3182	0.3182	76.15	
PCB-54	20:12						0.006163	0.006163		
PCB-50	22:28	22811	0.87	0.8578	0.4717	0.4717	0.0713	0.0713		a
PCB-53 (C50)	22:28	22811	0.87	0.8578	0.4717	0.4717	0.0713	0.0713		a
PCB-45	23:10	127491	0.74	0.8264	2.736	2.736	0.0740	0.0740		a
PCB-51 (C45)	23:10	127491	0.74	0.8264	2.736	2.736	0.0740	0.0740		a
PCB-46	23:20						0.0861	0.0861		
PCB-52	24:48	124130	0.84	0.9194	2.395	2.395	0.0665	0.0665		a
PCB-43	24:52						0.0591	0.0591		
PCB-73 (C43)	24:52						0.0591	0.0591		
PCB-49	25:17	74985	0.83	1.0685	1.245	1.245	0.0572	0.0572		a
PCB-69 (C49)	25:17	74985	0.83	1.0685	1.245	1.245	0.0572	0.0572		a
PCB-48	25:33	25541	0.85	0.8399	0.5394	0.5394	0.0728	0.0728		a
PCB-44	25:49	441647	0.72	0.9731	8.050	8.050	0.0628	0.0628		a
PCB-47 (C44)	25:49	441647	0.72	0.9731	8.050	8.050	0.0628	0.0628		a
PCB-65 (C44)	25:49	441647	0.72	0.9731	8.050	8.050	0.0628	0.0628		a
PCB-59	26:07	12428	0.77	1.1853	0.2102	0.1860	0.0516	0.0516		RQ
PCB-62 (C59)	26:07	12428	0.77	1.1853	0.2102	0.1860	0.0516	0.0516		RQ
PCB-75 (C59)	26:07	12428	0.77	1.1853	0.2102	0.1860	0.0516	0.0516		RQ
PCB-42	26:18	33427	0.67	0.8097	0.7323	0.7323	0.0755	0.0755		
PCB-40	26:47	51772	0.77	0.8863	1.118	1.036	0.0690	0.0690		RQM
PCB-41 (C40)	26:47	51772	0.77	0.8863	1.118	1.036	0.0690	0.0690		RQM
PCB-71 (C40)	26:47	51772	0.77	0.8863	1.118	1.036	0.0690	0.0690		RQM
PCB-64	27:00	59972	0.78	1.1776	0.9034	0.9034	0.0519	0.0519		M
PCB-72	27:46						0.0559	0.0559		
PCB-68	28:05	71214	0.77	1.2533	1.083	1.008	0.0488	0.0488		RQ
PCB-57	28:29						0.0565	0.0565		
PCB-58	28:44						0.0461	0.0461		
PCB-67	28:53						0.0430	0.0430		
PCB-63	29:11	5103	0.77	1.1240	0.0936	0.0805	0.0544	0.0544		RQ
PCB-61	29:32	147901	0.78	1.2612	2.080	2.080	0.0485	0.0485		
PCB-70 (C61)	29:32	147901	0.78	1.2612	2.080	2.080	0.0485	0.0485		
PCB-74 (C61)	29:32	147901	0.78	1.2612	2.080	2.080	0.0485	0.0485		
PCB-76 (C61)	29:32	147901	0.78	1.2612	2.080	2.080	0.0485	0.0485		
PCB-66	29:52	82155	0.70	1.2583	1.158	1.158	0.0486	0.0486		M
PCB-55	29:59						0.0462	0.0462		
PCB-56	30:32	34847	0.77	1.2334	0.5651	0.5011	0.0496	0.0496		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:43	22303	0.75	1.1230	0.3523	0.3523	0.0544	0.0544		
PCB-80	31:06						0.0462	0.0462		
PCB-79	32:38						0.0425	0.0425		
PCB-78	33:11						0.0526	0.0526		
PCB-81	33:38						0.0576	0.0576		
PCB-77	34:11	8381	0.77	1.0836	0.2049	0.1329	0.0554	0.0554		RQM
S Total Pentachlorobiphenyls					4.291	3.946	0.0311	0.0311		RQ
D PCB-104L	25:41	3861866	1.62	1.2161	91.4	91.4	0.0839	0.0839	91.39	
\$ PCB-95L	28:38	1598564	1.58	0.7218	57.3	57.3	0.1154	0.1154	115	
* PCB-101L	31:33	3474778	1.65		100.0	100.0				
\$ PCB-111L	34:13	3843279	1.61	1.3699	80.7	80.7	0.0745	0.0745	80.74	
D PCB-123L	36:10	5373195	1.55	0.9731	89.4	89.4	1.085	1.085	89.44	
D PCB-118L	36:29	5522949	1.62	1.0102	88.6	88.6	1.045	1.045	88.56	
D PCB-114L	37:02	6016466	1.59	0.9949	98.0	98.0	1.061	1.061	97.96	
D PCB-105L	37:41	5405110	1.62	0.9514	92.0	92.0	1.110	1.110	92.02	
* PCB-127L	39:09	6173693	1.60		100.0	100.0				
D PCB-126L	40:46	5134972	1.60	0.9439	88.1	88.1	1.119	1.119	88.12	
PCB-104	25:40						0.0195	0.0195		
PCB-96	26:03						0.0180	0.0180		
PCB-103	27:57						0.0225	0.0225		
PCB-94	28:11						0.0258	0.0258		
PCB-95	28:41	15840	1.55	0.8033	0.6177	0.5106	0.0245	0.0245		RQ
PCB-93	28:50						0.0234	0.0234		
PCB-100 (C93)	28:50						0.0234	0.0234		
PCB-98	29:03	2887	1.76	0.8262	0.0905	0.0905	0.0239	0.0239		M
PCB-102 (C98)	29:03	2887	1.76	0.8262	0.0905	0.0905	0.0239	0.0239		M
PCB-88	29:32	3539	1.37	0.8013	0.1144	0.1144	0.0246	0.0246		
PCB-91 (C88)	29:32	3539	1.37	0.8013	0.1144	0.1144	0.0246	0.0246		
PCB-84	29:45	5809	1.55	0.7299	0.2617	0.2061	0.0270	0.0270		RQ
PCB-89	30:11						0.0253	0.0253		
PCB-121	30:34						0.0152	0.0152		
PCB-92	30:59	4534	1.40	0.8546	0.1374	0.1374	0.0231	0.0231		
PCB-90	31:34	26659	1.62	0.9550	0.7228	0.7228	0.0206	0.0206		M
PCB-101 (C90)	31:34	26659	1.62	0.9550	0.7228	0.7228	0.0206	0.0206		M
PCB-113 (C90)	31:34	26659	1.62	0.9550	0.7228	0.7228	0.0206	0.0206		M
PCB-83	32:09	10477	1.55	0.8385	0.3870	0.3235	0.0235	0.0235		RQM
PCB-99 (C83)	32:09	10477	1.55	0.8385	0.3870	0.3235	0.0235	0.0235		RQM
PCB-112	32:15	415	1.55	1.4111	0.0131	0.007615	0.0140	0.0140		RQMa
PCB-86	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-87 (C86)	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-97 (C86)	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-109 (C86)	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-119 (C86)	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-125 (C86)	32:45	17457	1.55	1.0473	0.4824	0.4316	0.0188	0.0188		RQM
PCB-85	33:21	2238	1.55	1.0408	0.0923	0.0557	0.0189	0.0189		RQ
PCB-116 (C85)	33:21	2238	1.55	1.0408	0.0923	0.0557	0.0189	0.0189		RQ
PCB-117 (C85)	33:21	2238	1.55	1.0408	0.0923	0.0557	0.0189	0.0189		RQ
PCB-110	33:33	26024	1.33	1.1919	0.5654	0.5654	0.0165	0.0165		
PCB-115 (C110)	33:33	26024	1.33	1.1919	0.5654	0.5654	0.0165	0.0165		
PCB-82	33:54	3463	1.48	0.8303	0.1080	0.1080	0.0237	0.0237		
PCB-111	34:12						0.0163	0.0163		
PCB-120	34:40						0.0133	0.0133		
PCB-108	35:49						0.0512	0.0512		
PCB-124 (C108)	35:49						0.0512	0.0512		
PCB-107	36:04						0.0482	0.0482		
PCB-123	36:11						0.0540	0.0540		
PCB-106	36:18						0.0539	0.0539		
PCB-118	36:31	31896	1.68	1.2055	0.4791	0.4791	0.0494	0.0494		
PCB-122	36:52						0.0611	0.0611		
PCB-114	37:02						0.0479	0.0479		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:42	12385	1.55	1.1879	0.2191	0.1929	0.0497	0.0497		RQ
PCB-127	39:09						0.0513	0.0513		
PCB-126	40:47						0.0596	0.0596		
S Total Hexachlorobiphenyls					1.797	1.603	0.0213	0.0213		RQ
D PCB-155L	31:18	3194417	1.30	1.0851	84.7	84.7	0.0488	0.0488	84.72	
\$ PCB-153L	38:21	2171663	1.29	0.9169	50.1	50.1	0.6788	0.6788	100	
* PCB-138L	39:36	4143924	1.25		100.0	100.0				
D PCB-167L	42:36	4522916	1.25	1.2572	86.8	86.8	0.4582	0.4582	86.81	
D PCB-156L	43:46	9803349	1.26	1.2106	195.4	195.4	0.4759	0.4759	97.71	
D PCB-157L (C156L)	43:46	9803349	1.26	1.2106	195.4	195.4	0.4759	0.4759	97.71	
D PCB-169L	46:58	4593136	1.30	1.2439	89.1	89.1	0.4631	0.4631	89.11	
PCB-155	31:17						0.008848	0.008848		
PCB-152	31:31						0.008445	0.008445		
PCB-150	31:40						0.008247	0.008247		
PCB-136	32:03						0.008261	0.008261		
PCB-145	32:20						0.008628	0.008628		
PCB-148	33:50						0.0110	0.0110		
PCB-135	34:31	2980	1.24	0.7256	0.1817	0.1286	0.0115	0.0115		RQM
PCB-151 (C135)	34:31	2980	1.24	0.7256	0.1817	0.1286	0.0115	0.0115		RQM
PCB-154	34:41						0.0103	0.0103		
PCB-144	35:00						0.0106	0.0106		
PCB-147	35:24	10272	1.24	0.8950	0.2717	0.2427	0.0274	0.0274		RQ
PCB-149 (C147)	35:24	10272	1.24	0.8950	0.2717	0.2427	0.0274	0.0274		RQ
PCB-134	35:40						0.0308	0.0308		
PCB-143 (C134)	35:40						0.0308	0.0308		
PCB-139	35:57						0.0279	0.0279		
PCB-140 (C139)	35:57						0.0279	0.0279		
PCB-131	36:10						0.0327	0.0327		
PCB-142	36:19						0.0326	0.0326		
PCB-132	36:39	4650	1.24	0.7489	0.1652	0.1313	0.0327	0.0327		RQ
PCB-133	37:07						0.0303	0.0303		
PCB-165	37:30						0.0239	0.0239		
PCB-146	37:46	2304	1.24	0.9637	0.0564	0.0505	0.0254	0.0254		RQ
PCB-161	37:53						0.0217	0.0217		
PCB-153	38:23	15217	1.24	1.0938	0.3362	0.2941	0.0224	0.0224		RQ
PCB-168 (C153)	38:23	15217	1.24	1.0938	0.3362	0.2941	0.0224	0.0224		RQ
PCB-141	38:34						0.0280	0.0280		
PCB-130	38:59						0.0347	0.0347		
PCB-137	39:11						0.0315	0.0315		
PCB-164	39:19						0.0236	0.0236		
PCB-129	39:38	25460	1.32	0.9464	0.5688	0.5688	0.0259	0.0259		
PCB-138 (C129)	39:38	25460	1.32	0.9464	0.5688	0.5688	0.0259	0.0259		
PCB-160 (C129)	39:38	25460	1.32	0.9464	0.5688	0.5688	0.0259	0.0259		
PCB-163 (C129)	39:38	25460	1.32	0.9464	0.5688	0.5688	0.0259	0.0259		
PCB-158	40:02	3088	1.24	1.3110	0.0652	0.0498	0.0187	0.0187		RQ
PCB-128	40:55	4090	1.27	0.9829	0.0880	0.0880	0.0249	0.0249		
PCB-166 (C128)	40:55	4090	1.27	0.9829	0.0880	0.0880	0.0249	0.0249		
PCB-159	41:50						0.0177	0.0177		
PCB-162	42:08						0.0195	0.0195		
PCB-167	42:36						0.0188	0.0188		
PCB-156	43:48	2656	1.24	1.1104	0.0638	0.0488	0.0258	0.0258		RQM
PCB-157 (C156)	43:48	2656	1.24	1.1104	0.0638	0.0488	0.0258	0.0258		RQM
PCB-169	46:59						0.0188	0.0188		
S Total Heptachlorobiphenyls					0.3382	0.3296	0.001075	0.001075		RQ
D PCB-188L	37:00	3936569	1.08	1.3133	98.1	98.1	0.0282	0.0282	98.10	
\$ PCB-178L	40:04	2578272	1.06	1.0313	81.8	81.8	0.0359	0.0359	81.82	
* PCB-180L	45:07	3055540	1.09		100.0	100.0				
D PCB-170L	46:24	2337350	1.06	0.8362	91.5	91.5	0.0443	0.0443	91.48	
D PCB-189L	49:30	5155503	1.07	1.4414	93.2	93.2	0.4694	0.4694	93.16	
PCB-188	37:01						0.000554	0.000554		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:24	2214	1.05	1.4276	0.0580	0.0494	0.000563	0.000563		RQ
PCB-184	37:52						0.000588	0.000588		
PCB-176	38:14						0.000652	0.000652		
PCB-186	38:42						0.000546	0.000546		
PCB-178	40:04						0.000899	0.000899		
PCB-175	40:42						0.000844	0.000844		
PCB-187	41:02	1409	1.14	1.1018	0.0408	0.0408	0.000730	0.000730		
PCB-182	41:09						0.000870	0.000870		
PCB-183	41:37	2887	1.01	0.9825	0.0937	0.0937	0.000819	0.000819		
PCB-185 (C183)	41:37	2887	1.01	0.9825	0.0937	0.0937	0.000819	0.000819		
PCB-174	41:50						0.000834	0.000834		
PCB-177	42:19	731	1.01	0.9773	0.0238	0.0238	0.000823	0.000823		
PCB-181	42:39						0.000846	0.000846		
PCB-171	42:52						0.000861	0.000861		
PCB-173 (C171)	42:52						0.000861	0.000861		
PCB-172	44:30						0.000944	0.000944		
PCB-192	44:45						0.000598	0.000598		
PCB-180	45:10	2889	1.19	1.1676	0.0789	0.0789	0.000689	0.000689		
PCB-193 (C180)	45:10	2889	1.19	1.1676	0.0789	0.0789	0.000689	0.000689		
PCB-191	45:30						0.000624	0.000624		
PCB-170	46:24	1193	1.11	1.1865	0.0430	0.0430	0.000940	0.000940		
PCB-190	46:55						0.000604	0.000604		
PCB-189	49:30						0.007751	0.007751		
S Total Octachlorobiphenyls					0.0290	0.0263	0.007516	0.007516		RQ
D PCB-202L	42:22	2614706	0.92	0.9818	87.2	87.2	0.0207	0.0207	87.16	
* PCB-194L	51:36	3839267	0.93		100.0	100.0				
D PCB-205L	52:04	4127633	0.92	1.1786	91.2	91.2	0.0548	0.0548	91.22	
PCB-202	42:23						0.004096	0.004096		
PCB-201	43:17						0.004350	0.004350		
PCB-204	43:57						0.004046	0.004046		
PCB-197	44:11						0.003703	0.003703		
PCB-200	44:19						0.004213	0.004213		
PCB-198	47:04						0.004878	0.004878		
PCB-199 (C198)	47:04						0.004878	0.004878		
PCB-196	47:44						0.005435	0.005435		
PCB-203	47:56	639	0.89	0.9292	0.0290	0.0263	0.004566	0.004566		RQ
PCB-195	49:16						0.0182	0.0182		
PCB-194	51:36						0.0154	0.0154		
PCB-205	52:04						0.0138	0.0138		
S Total Nonachlorobiphenyls							0.1114	0.1114		
D PCB-208L	49:01	3423094	0.80	0.9576	93.1	93.1	0.1683	0.1683	93.11	
D PCB-206L	53:48	2545827	0.78	0.6947	95.5	95.5	0.2320	0.2320	95.45	
PCB-208	49:02						0.0948	0.0948		
PCB-207	49:57						0.0909	0.0909		
PCB-206	53:49						0.1114	0.1114		
D PCB-209L	55:25	2672099	0.71	0.6669	104.4	104.4	0.0558	0.0558	104	
DCB Decachlorobiphenyl	55:26	1710	0.69	1.1004	0.0962	0.0582	0.002843	0.002843		RQM
S Polychlorinated biphenyls, Total					61.1	0.0582	0.0382	0.0382		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
 Lims ID: 140-37232-A-7-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
 Sample Type: Client
 Inject. Date: 16-Jul-2024 09:03:00 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033514-012
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 17-Jul-2024 01:15:12 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:15:12

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:39	-1	0.726	4536543	1760146	1162	2905	1515		
202.0766	11:38	11:39	-1	0.726	1422430	549701	3401	8502	162	3.19(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:48	-1	0.860	5268224	1669808	1162	2905	1437		
202.0766	13:46	13:48	-1	0.860	1606900	521763	3401	8502	153	3.28(2.66-3.60)	
PCB-1											
188.0393	11:39	11:39	0	1.001	47687	18721	168	420	111		RQM
190.0363	11:39	11:39	0	1.001	19688	7437	195	487	38	2.42(2.66-3.60)	M
Empc Correction					15235	5981	195	487	31		
PCB-2											
188.0393	13:36	13:37	-1	0.988	31349	10098	168	420	60		
190.0363	13:36	13:37	-1	0.988	11344	3308	195	487	17	2.76(2.66-3.60)	
PCB-3											
188.0393	13:47	13:46	-1	1.001	47234	15154	168	420	90		
190.0363	13:47	13:46	-1	1.001	14344	4421	195	487	23	3.29(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:03	0	0.876	1719377	545674	508	1270	1074		
236.0376	14:02	14:03	0	0.876	1063725	341678	170	425	2010	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		4158567	915370	508	1270	1802		
236.0376	16:01	15:59	2		2577296	564149	170	425	3319	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:54	16:54	5	1.204	1459046	224885	508	1270	443		a
236.0376	16:54	16:54	5	1.204	910408	146169	170	425	860	1.60(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											a
234.0406	20:07	20:07	14	1.256	3140349	570837	508	1270	1124		a
236.0376	20:07	20:07	14	1.256	1935756	368553	170	425	2168	1.62(1.33-1.79)	
PCB-4											RQ
222.0003	14:03	14:02	0	1.001	12489	3486	128	320	27		
223.9974	14:02	14:02	-1	1.000	11353	3075	237	592	13	1.10(1.33-1.79)	
Empc Correction					8005	2234	237	592	9		
PCB-10											
222.0003	14:13						128	320			
223.9974	14:13						237	592			
PCB-9											
222.0003	16:00						128	320			
223.9974	16:00						237	592			
PCB-7											M
222.0003	16:12	16:13	3	1.155	15011	3640	128	320	28		a
223.9974	16:13	16:13	4	1.155	11078	2066	237	592	9	1.36(1.33-1.79)	M
PCB-6											a
222.0003	16:29	16:29	5	1.174	20167	4404	128	320	34		a
223.9974	16:29	16:29	5	1.174	11891	2120	237	592	9	1.70(1.33-1.79)	
PCB-5											
222.0003	16:43						128	320			
223.9974	16:43						237	592			
PCB-8											a
222.0003	16:56	16:56	6	1.206	48415	7286	128	320	57		a
223.9974	16:54	16:56	4	1.204	28778	5301	237	592	22	1.68(1.33-1.79)	
PCB-14											
222.0003	18:39						128	320			
223.9974	18:39						237	592			
PCB-11											a
222.0003	19:32	19:32	16	0.971	369061	77417	128	320	605		a
223.9974	19:32	19:32	16	0.971	240853	46448	237	592	196	1.53(1.33-1.79)	
PCB-12											a
222.0003	19:46	19:46	10	0.982	11039	1824	128	320	14		a
223.9974	19:47	19:46	12	0.984	7259	1126	237	592	5	1.52(1.33-1.79)	
PCB-13 (C12)											a
222.0003	19:46	19:46	10	0.982	11039	1824	128	320	14		a
223.9974	19:47	19:46	12	0.984	7259	1126	237	592	5	1.52(1.33-1.79)	
PCB-15											Ma
222.0003	20:06	20:06	13	0.999	19785	2646	128	320	21		M
223.9974	20:08	20:06	14	1.001	13036	2881	237	592	12	1.52(1.33-1.79)	M
PCB-19L											
268.0016	17:14	17:07	6	0.839	984764	181342	573	1432	316		
269.9986	17:14	17:07	6	0.839	932955	175732	664	1660	265	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:32	20:20	12		2220978	558119	573	1432	974		
269.9986	20:32	20:20	12		2086320	520198	664	1660	783	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:42	22:35	7		6150042	1509725	932	2330	1620		
269.9986	22:42	22:35	7		5868801	1455789	431	1077	3378	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:59	22:57	6	1.012	4696827	1076715	932	2330	1155		
269.9986	22:59	22:57	6	1.012	4433079	1012388	431	1077	2349	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:58	3	1.186	3761323	801326	932	2330	860		
269.9986	26:56	26:58	3	1.186	3628893	773434	431	1077	1795	1.04(0.88-1.20)	
PCB-19											
255.9613	17:14	17:13	6	1.001	2144	792	32	80	25		RQ
257.9584	17:14	17:13	6	1.001	3299	543	44	110	12	0.65(0.88-1.20)	
Empc Correction					2061	761	44	110	17		
PCB-18											
255.9613	19:16	19:16	20	1.118	22522	5180	32	80	162		M
257.9584	19:16	19:16	20	1.118	19228	4047	44	110	92	1.17(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:16	19:16	20	1.118	22522	5180	32	80	162		M
257.9584	19:16	19:16	20	1.118	19228	4047	44	110	92	1.17(0.88-1.20)	M
PCB-17											
255.9613	19:38	19:38	14	1.140	15711	3040	32	80	95		a
257.9584	19:38	19:38	14	1.140	14187	3169	44	110	72	1.11(0.88-1.20)	a
PCB-27											
255.9613	19:50	19:50	13	1.152	2863	852	32	80	27		a
257.9584	19:50	19:50	13	1.152	2749	711	44	110	16	1.04(0.88-1.20)	a
PCB-24											
255.9613	19:48						32	80			U
257.9584	19:48						44	110			
PCB-16											
255.9613	20:05	20:05	13	1.166	12318	2607	32	80	81		a
257.9584	20:05	20:05	13	1.166	11955	2493	44	110	57	1.03(0.88-1.20)	a
PCB-32											
255.9613	20:33	20:33	11	1.193	11648	3217	32	80	101		RQa
257.9584	20:32	20:33	10	1.192	14466	3192	44	110	73	0.81(0.88-1.20)	a
Empc Correction					11200	3093	44	110	70		
PCB-34											
255.9613	21:44						184	460			
257.9584	21:44						121	302			
PCB-23											
255.9613	21:53						184	460			
257.9584	21:53						121	302			
PCB-26											
255.9613	22:11	22:10	7	1.288	19723	4230	184	460	23		M
257.9584	22:10	22:10	6	1.287	22327	6060	121	302	50	0.88(0.88-1.20)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											M
255.9613	22:11	22:10	7	1.288	19723	4230	184	460	23		
257.9584	22:10	22:10	6	1.287	22327	6060	121	302	50	0.88(0.88-1.20)	M
PCB-25											Ma
255.9613	22:25	22:24	7	0.832	10596	2015	184	460	11		a
257.9584	22:24	22:24	6	0.832	11536	3053	121	302	25	0.92(0.88-1.20)	M
PCB-31											a
255.9613	22:43	22:43	7	0.844	135309	33382	184	460	181		a
257.9584	22:43	22:43	6	0.843	137308	30793	121	302	254	0.99(0.88-1.20)	
PCB-20											
255.9613	23:00	22:56	5	0.854	124084	26056	184	460	142		
257.9584	23:00	22:56	5	0.854	122671	27189	121	302	225	1.01(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:56	5	0.854	124084	26056	184	460	142		
257.9584	23:00	22:56	5	0.854	122671	27189	121	302	225	1.01(0.88-1.20)	
PCB-21											Ma
255.9613	23:15	23:15	10	0.863	68713	16281	184	460	88		a
257.9584	23:15	23:15	10	0.863	76646	13914	121	302	115	0.90(0.88-1.20)	M
PCB-33 (C21)											Ma
255.9613	23:15	23:15	10	0.863	68713	16281	184	460	88		a
257.9584	23:15	23:15	10	0.863	76646	13914	121	302	115	0.90(0.88-1.20)	M
PCB-22											M
255.9613	23:38	23:39	5	0.878	41400	9657	184	460	52		
257.9584	23:39	23:39	6	0.878	43445	8284	121	302	68	0.95(0.88-1.20)	M
PCB-36											
255.9613	25:07						184	460			
257.9584	25:07						121	302			
PCB-39											
255.9613	25:30						184	460			
257.9584	25:30						121	302			
PCB-38											
255.9613	26:03						184	460			
257.9584	26:03						121	302			
PCB-35											RQ
255.9613	26:33	26:32	3	0.986	7125	1882	184	460	10		
257.9584	26:33	26:32	3	0.986	8370	1757	121	302	15	0.85(0.88-1.20)	
Empc Correction					6850	1809	121	302	15		
PCB-37											
255.9613	26:56	26:55	2	1.000	15859	3188	184	460	17		
257.9584	26:57	26:55	3	1.001	17770	3908	121	302	32	0.89(0.88-1.20)	
PCB-54L											a
301.9626	20:24	20:24	13	0.824	954604	210766	124	310	1700		a
303.9597	20:24	20:24	13	0.824	1188299	260754	52	130	5015	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:42	4		2570062	577587	962	2405	600		
303.9597	24:46	24:42	4		3212656	742689	1258	3145	590	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:38	32:37	1	0.970	1468498	286394	962	2405	298		
303.9597	32:38	32:37	1	0.970	1833055	363634	1258	3145	289	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:37	33:39	1	1.358	2424454	463492	962	2405	482		
303.9597	33:37	33:39	1	1.358	3032876	575684	1258	3145	458	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:11	34:14	1	1.380	2603862	487177	962	2405	506		
303.9597	34:12	34:14	1	1.381	3214103	590749	1258	3145	470	0.81(0.65-0.89)	
PCB-54											
289.9224	20:24						6	15			
291.9194	20:24						9	22			
PCB-50											
289.9224	22:28	22:28	7	1.101	10617	2672	81	202	33		a
291.9194	22:28	22:28	7	1.101	12194	2785	178	445	16	0.87(0.65-0.89)	a
PCB-53 (C50)											
289.9224	22:28	22:28	7	1.101	10617	2672	81	202	33		a
291.9194	22:28	22:28	7	1.101	12194	2785	178	445	16	0.87(0.65-0.89)	a
PCB-45											
289.9224	23:10	23:10	5	1.136	54410	10119	81	202	125		a
291.9194	23:11	23:10	6	1.136	73081	14663	178	445	82	0.74(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:10	23:10	5	1.136	54410	10119	81	202	125		a
291.9194	23:11	23:10	6	1.136	73081	14663	178	445	82	0.74(0.65-0.89)	a
PCB-46											
289.9224	23:36						81	202			
291.9194	23:36						178	445			
PCB-52											
289.9224	24:48	24:48	4	1.215	56517	12912	81	202	159		a
291.9194	24:48	24:48	4	1.215	67613	15969	178	445	90	0.84(0.65-0.89)	a
PCB-43											
289.9224	25:09						81	202			
291.9194	25:09						178	445			
PCB-73 (C43)											
289.9224	25:09						81	202			
291.9194	25:09						178	445			
PCB-49											
289.9224	25:17	25:17	8	1.239	33949	7952	81	202	98		a
291.9194	25:16	25:17	7	1.238	41036	8428	178	445	47	0.83(0.65-0.89)	a
PCB-69 (C49)											
289.9224	25:17	25:17	8	1.239	33949	7952	81	202	98		a
291.9194	25:16	25:17	7	1.238	41036	8428	178	445	47	0.83(0.65-0.89)	a
PCB-48											
289.9224	25:33	25:33	4	1.252	11750	2888	81	202	36		a
291.9194	25:33	25:33	4	1.252	13791	2938	178	445	17	0.85(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											a
289.9224	25:49	25:49	5	1.265	184484	39575	81	202	489		a
291.9194	25:48	25:49	4	1.265	257163	53629	178	445	301	0.72(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:49	25:49	5	1.265	184484	39575	81	202	489		a
291.9194	25:48	25:49	4	1.265	257163	53629	178	445	301	0.72(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:49	25:49	5	1.265	184484	39575	81	202	489		a
291.9194	25:48	25:49	4	1.265	257163	53629	178	445	301	0.72(0.65-0.89)	
PCB-59											RQ
289.9224	26:07	26:06	4	1.280	7024	1111	81	202	14		
	Empc Correction				5406	1354	81	202	17		
291.9194	26:05	26:06	2	1.278	7022	1759	178	445	10	1.00(0.65-0.89)	
PCB-62 (C59)											RQ
289.9224	26:07	26:06	4	1.280	7024	1111	81	202	14		
	Empc Correction				5406	1354	81	202	17		
291.9194	26:05	26:06	2	1.278	7022	1759	178	445	10	1.00(0.65-0.89)	
PCB-75 (C59)											RQ
289.9224	26:07	26:06	4	1.280	7024	1111	81	202	14		
	Empc Correction				5406	1354	81	202	17		
291.9194	26:05	26:06	2	1.278	7022	1759	178	445	10	1.00(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	3	1.289	13410	3539	81	202	44		
291.9194	26:18	26:18	3	1.289	20017	3566	178	445	20	0.67(0.65-0.89)	
PCB-40											RQM
289.9224	26:47	26:47	2	1.313	26613	4604	81	202	57		M
	Empc Correction				22522	4247	81	202	52		
291.9194	26:47	26:47	2	1.313	29250	5516	178	445	31	0.91(0.65-0.89)	M
PCB-41 (C40)											RQM
289.9224	26:47	26:47	2	1.313	26613	4604	81	202	57		M
	Empc Correction				22522	4247	81	202	52		
291.9194	26:47	26:47	2	1.313	29250	5516	178	445	31	0.91(0.65-0.89)	M
PCB-71 (C40)											RQM
289.9224	26:47	26:47	2	1.313	26613	4604	81	202	57		M
	Empc Correction				22522	4247	81	202	52		
291.9194	26:47	26:47	2	1.313	29250	5516	178	445	31	0.91(0.65-0.89)	M
PCB-64											M
289.9224	27:00	27:00	2	1.323	26358	4674	81	202	58		
291.9194	27:00	27:00	2	1.323	33614	6821	178	445	38	0.78(0.65-0.89)	M
PCB-72											
289.9224	27:48						81	202			
291.9194	27:48						178	445			
PCB-68											RQ
289.9224	28:05	28:04	1	0.835	36255	7944	81	202	98		
	Empc Correction				30980	6907	81	202	85		
291.9194	28:06	28:04	2	0.836	40234	8971	178	445	50	0.90(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:30						81	202			
291.9194	28:30						178	445			
PCB-58											
289.9224	28:45						81	202			
291.9194	28:45						178	445			
PCB-67											
289.9224	28:54						81	202			
291.9194	28:54						178	445			
PCB-63											
289.9224	29:11	29:09	1	0.868	2220	866	81	202	11		RQ
291.9194	29:11	29:09	1	0.868	3713	642	178	445	4	0.60(0.65-0.89)	
	Empc Correction				2883	1124	178	445	6		
PCB-61											
289.9224	29:32	29:30	2	0.878	64925	8981	81	202	111		
291.9194	29:32	29:30	2	0.878	82976	12412	178	445	70	0.78(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:32	29:30	2	0.878	64925	8981	81	202	111		
291.9194	29:32	29:30	2	0.878	82976	12412	178	445	70	0.78(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:32	29:30	2	0.878	64925	8981	81	202	111		
291.9194	29:32	29:30	2	0.878	82976	12412	178	445	70	0.78(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:32	29:30	2	0.878	64925	8981	81	202	111		
291.9194	29:32	29:30	2	0.878	82976	12412	178	445	70	0.78(0.65-0.89)	
PCB-66											
289.9224	29:52	29:50	3	0.888	33849	6558	81	202	81		M
291.9194	29:50	29:50	1	0.887	48306	8701	178	445	49	0.70(0.65-0.89)	M
PCB-55											
289.9224	30:00						81	202			
291.9194	30:00						178	445			
PCB-56											
289.9224	30:32	30:30	2	0.908	19605	3500	81	202	43		RQ
	Empc Correction				15159	3662	81	202	45		
291.9194	30:32	30:30	2	0.908	19688	4757	178	445	27	1.00(0.65-0.89)	
PCB-60											
289.9224	30:43	30:43	1	0.913	9590	1655	81	202	20		
291.9194	30:45	30:43	3	0.914	12713	2584	178	445	15	0.75(0.65-0.89)	
PCB-80											
289.9224	31:07						81	202			
291.9194	31:07						178	445			
PCB-79											
289.9224	32:39						81	202			
291.9194	32:39						178	445			
PCB-78											
289.9224	33:12						81	202			
291.9194	33:12						178	445			

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:39						81	202			
291.9194	33:39						178	445			
PCB-77											
289.9224	34:11	34:18	-1	1.000	3646	756	81	202	9		RQM
291.9194	34:18	34:18	6	1.003	9272	1051	178	445	6	0.39(0.65-0.89)	M
Empc Correction					4735	981	178	445	6		
PCB-104L											
337.9207	25:41	25:38	3	0.814	2389366	543666	133	332	4088		
339.9178	25:41	25:38	3	0.814	1472500	329089	158	395	2083	1.62(1.32-1.78)	
PCB-95L											
337.9207	28:38	28:36	2	1.115	978849	200867	133	332	1510		
339.9178	28:38	28:36	2	1.115	619715	129651	158	395	821	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:33	31:31	2		2161983	447756	133	332	3367		
339.9178	31:33	31:31	2		1312795	264576	158	395	1675	1.65(1.32-1.78)	
PCB-111L											
337.9207	34:13	34:11	1	1.084	2371287	480583	133	332	3613		
339.9178	34:13	34:11	1	1.084	1471992	303502	158	395	1921	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:10	36:09	1	1.146	3266323	649341	3299	8247	197		
339.9178	36:10	36:09	1	1.146	2106872	425237	1799	4497	236	1.55(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	1	1.156	3414545	644979	3299	8247	196		
339.9178	36:29	36:29	1	1.156	2108404	399522	1799	4497	222	1.62(1.32-1.78)	
PCB-114L											
337.9207	37:02	37:00	1	1.174	3694888	731154	3299	8247	222		
339.9178	37:02	37:00	1	1.174	2321578	467446	1799	4497	260	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:41	37:40	1	1.194	3341065	649181	3299	8247	197		
339.9178	37:41	37:40	1	1.194	2064045	404687	1799	4497	225	1.62(1.32-1.78)	
PCB-127L											
337.9207	39:09	39:07	1		3796801	741566	3299	8247	225		
339.9178	39:09	39:07	1		2376892	465544	1799	4497	259	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:46	40:45	0	1.292	3162191	588225	3299	8247	178		
339.9178	40:46	40:45	0	1.292	1972781	361948	1799	4497	201	1.60(1.32-1.78)	
PCB-104											
325.8804	25:43						52	130			
327.8775	25:43						17	42			
PCB-96											
325.8804	26:06						52	130			
327.8775	26:06						17	42			

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	28:00						52	130			
327.8775	28:00						17	42			
PCB-94											
325.8804	28:14						52	130			
327.8775	28:14						17	42			
PCB-95											
325.8804	28:41	28:40	3	1.116	12949	2568	52	130	49		RQ
	Empc Correction				9628	2011	52	130	39		
327.8775	28:40	28:40	2	1.116	6212	1298	17	42	76	2.08(1.32-1.78)	
PCB-93											
325.8804	28:53						52	130			
327.8775	28:53						17	42			
PCB-100 (C93)											
325.8804	28:53						52	130			
327.8775	28:53						17	42			
PCB-98											
325.8804	29:03	29:03	4	1.131	1841	855	52	130	16		M
327.8775	29:02	29:03	3	1.130	1046	236	17	42	14	1.76(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:03	29:03	4	1.131	1841	855	52	130	16		M
327.8775	29:02	29:03	3	1.130	1046	236	17	42	14	1.76(1.32-1.78)	M
PCB-88											
325.8804	29:32	29:30	3	1.150	2044	1028	52	130	20		
327.8775	29:32	29:30	3	1.150	1495	490	17	42	29	1.37(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:32	29:30	3	1.150	2044	1028	52	130	20		
327.8775	29:32	29:30	3	1.150	1495	490	17	42	29	1.37(1.32-1.78)	
PCB-84											
325.8804	29:45	29:47	1	1.158	3531	1297	52	130	25		RQ
327.8775	29:44	29:47	0	1.157	3845	754	17	42	44	0.92(1.32-1.78)	
	Empc Correction				2278	836	17	42	49		
PCB-89											
325.8804	30:14						52	130			
327.8775	30:14						17	42			
PCB-121											
325.8804	30:38						52	130			
327.8775	30:38						17	42			
PCB-92											
325.8804	30:59	30:57	1	0.856	2646	855	52	130	16		
327.8775	30:59	30:57	1	0.857	1888	395	17	42	23	1.40(1.32-1.78)	
PCB-90											
325.8804	31:34	31:34	3	1.229	16498	3611	52	130	69		M
327.8775	31:32	31:34	1	1.228	10161	2014	17	42	118	1.62(1.32-1.78)	M
PCB-101 (C90)											
325.8804	31:34	31:34	3	1.229	16498	3611	52	130	69		M
327.8775	31:32	31:34	1	1.228	10161	2014	17	42	118	1.62(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											M
325.8804	31:34	31:34	3	1.229	16498	3611	52	130	69		M
327.8775	31:32	31:34	1	1.228	10161	2014	17	42	118	1.62(1.32-1.78)	
PCB-83											RQM
325.8804	32:09	32:10	1	1.251	8423	2101	52	130	40		M
	Empc Correction				6368	1188	52	130	23		
327.8775	32:10	32:10	3	1.252	4109	767	17	42	45	2.05(1.32-1.78)	M
PCB-99 (C83)											RQM
325.8804	32:09	32:10	1	1.251	8423	2101	52	130	40		M
	Empc Correction				6368	1188	52	130	23		
327.8775	32:10	32:10	3	1.252	4109	767	17	42	45	2.05(1.32-1.78)	M
PCB-112											RQM
325.8804	32:15	32:15	1	1.256	551	249	52	130	5		Ma
	Empc Correction				252	117	52	130	2		M
327.8775	32:14	32:15	0	1.255	163	76	17	42	4	3.38(1.32-1.78)	
PCB-86											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-87 (C86)											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-97 (C86)											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-109 (C86)											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-119 (C86)											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:45	32:45	8	1.275	12664	1539	52	130	30		M
	Empc Correction				10611	1785	52	130	34		
327.8775	32:45	32:45	9	1.275	6846	1152	17	42	68	1.85(1.32-1.78)	M
PCB-85											RQ
325.8804	33:21	33:24	2	1.299	2833	753	52	130	14		
	Empc Correction				1360	489	52	130	9		
327.8775	33:21	33:24	1	1.298	878	316	17	42	19	3.23(1.32-1.78)	
PCB-116 (C85)											RQ
325.8804	33:21	33:24	2	1.299	2833	753	52	130	14		
	Empc Correction				1360	489	52	130	9		
327.8775	33:21	33:24	1	1.298	878	316	17	42	19	3.23(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-117 (C85)											RQ
325.8804	33:21	33:24	2	1.299	2833	753	52	130	14		
	Empc Correction				1360	489	52	130	9		
327.8775	33:21	33:24	1	1.298	878	316	17	42	19	3.23(1.32-1.78)	
PCB-110											
325.8804	33:33	33:32	0	1.306	14849	2995	52	130	58		
327.8775	33:33	33:32	0	1.306	11175	2148	17	42	126	1.33(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:33	33:32	0	1.306	14849	2995	52	130	58		
327.8775	33:33	33:32	0	1.306	11175	2148	17	42	126	1.33(1.32-1.78)	
PCB-82											
325.8804	33:54	33:53	4	1.320	2064	551	52	130	11		
327.8775	33:54	33:53	4	1.320	1399	381	17	42	22	1.48(1.32-1.78)	
PCB-111											
325.8804	34:16						52	130			
327.8775	34:16						17	42			
PCB-120											
325.8804	34:44						52	130			
327.8775	34:44						17	42			
PCB-108											
325.8804	35:53						169	422			
327.8775	35:53						80	200			
PCB-124 (C108)											
325.8804	35:53						169	422			
327.8775	35:53						80	200			
PCB-107											
325.8804	36:08						169	422			
327.8775	36:08						80	200			
PCB-123											
325.8804	36:12						169	422			
327.8775	36:12						80	200			
PCB-106											
325.8804	36:19						169	422			
327.8775	36:19						80	200			
PCB-118											
325.8804	36:31	36:30	1	1.001	19991	3571	169	422	21		
327.8775	36:31	36:30	1	1.001	11905	2478	80	200	31	1.68(1.32-1.78)	
PCB-122											
325.8804	36:52						169	422			
327.8775	36:52						80	200			
PCB-114											
325.8804	37:03						169	422			
327.8775	37:03						80	200			
PCB-105											RQ
325.8804	37:42	37:42	1	1.000	9212	1993	169	422	12		
	Empc Correction				7528	1793	169	422	11		
327.8775	37:42	37:42	1	1.000	4857	1157	80	200	14	1.90(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-127											
325.8804	39:09						169	422			
327.8775	39:09						80	200			
PCB-126											
325.8804	40:47						169	422			
327.8775	40:47						80	200			
PCB-155L											
371.8817	31:18	31:15	2	0.790	1808513	388139	47	117	8258		
373.8788	31:18	31:15	2	0.790	1385904	293964	104	260	2827	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:21	38:19	1	0.900	1222274	241243	1099	2747	220		
373.8788	38:20	38:19	1	0.900	949389	188713	781	1952	242	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:36	39:36	1		2299870	451867	1099	2747	411		
373.8788	39:36	39:36	1		1844054	363984	781	1952	466	1.25(1.05-1.43)	
PCB-167L											
371.8817	42:36	42:34	0	1.076	2516063	490705	1099	2747	447		
373.8788	42:36	42:34	0	1.076	2006853	392965	781	1952	503	1.25(1.05-1.43)	
PCB-156L											
371.8817	43:46	43:43	2	1.105	5462347	712592	1099	2747	648		
373.8788	43:46	43:43	2	1.105	4341002	578107	781	1952	740	1.26(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:46	43:43	2	1.105	5462347	712592	1099	2747	648		
373.8788	43:46	43:43	2	1.105	4341002	578107	781	1952	740	1.26(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:57	0	1.186	2593099	473361	1099	2747	431		
373.8788	46:58	46:57	0	1.186	2000037	372667	781	1952	477	1.30(1.05-1.43)	
PCB-155											
359.8415	31:19						17	42			
361.8385	31:19						6	15			
PCB-152											
359.8415	31:33						17	42			
361.8385	31:33						6	15			
PCB-150											
359.8415	31:42						17	42			
361.8385	31:42						6	15			
PCB-136											
359.8415	32:06						17	42			
361.8385	32:06						6	15			
PCB-145											
359.8415	32:22						17	42			
361.8385	32:22						6	15			
PCB-148											
359.8415	33:52						17	42			
361.8385	33:52						6	15			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-135											RQM
359.8415	34:31	34:28	5	1.103	1650	306	17	42	18		
361.8385	34:28	34:28	2	1.101	2562	689	6	15	115	0.64(1.05-1.43)	M
Empc Correction					1330	246	6	15	41		
PCB-151 (C135)											RQM
359.8415	34:31	34:28	5	1.103	1650	306	17	42	18		
361.8385	34:28	34:28	2	1.101	2562	689	6	15	115	0.64(1.05-1.43)	M
Empc Correction					1330	246	6	15	41		
PCB-154											
359.8415	34:43						17	42			
361.8385	34:43						6	15			
PCB-144											
359.8415	35:02						17	42			
361.8385	35:02						6	15			
PCB-147											RQ
359.8415	35:24	35:21	2	1.131	6917	1510	18	45	84		
Empc Correction					5686	1176	18	45	65		
361.8385	35:25	35:21	3	1.131	4586	949	56	140	17	1.51(1.05-1.43)	
PCB-149 (C147)											RQ
359.8415	35:24	35:21	2	1.131	6917	1510	18	45	84		
Empc Correction					5686	1176	18	45	65		
361.8385	35:25	35:21	3	1.131	4586	949	56	140	17	1.51(1.05-1.43)	
PCB-134											
359.8415	35:42						18	45			
361.8385	35:42						56	140			
PCB-143 (C134)											
359.8415	35:42						18	45			
361.8385	35:42						56	140			
PCB-139											
359.8415	36:00						18	45			
361.8385	36:00						56	140			
PCB-140 (C139)											
359.8415	36:00						18	45			
361.8385	36:00						56	140			
PCB-131											
359.8415	36:12						18	45			
361.8385	36:12						56	140			
PCB-142											
359.8415	36:21						18	45			
361.8385	36:21						56	140			
PCB-132											RQ
359.8415	36:39	36:39	1	1.171	3776	941	18	45	52		
Empc Correction					2574	589	18	45	33		
361.8385	36:37	36:39	-1	1.170	2076	475	56	140	8	1.82(1.05-1.43)	
PCB-133											
359.8415	37:09						18	45			
361.8385	37:09						56	140			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-165											
359.8415	37:31						18	45			
361.8385	37:31						56	140			
PCB-146											
359.8415	37:46	37:45	1	0.886	1543	417	18	45	23		RQ
	Empc Correction				1275	334	18	45	19		
361.8385	37:45	37:45	0	0.886	1029	270	56	140	5	1.50(1.05-1.43)	
PCB-161											
359.8415	37:54						18	45			
361.8385	37:54						56	140			
PCB-153											
359.8415	38:23	38:20	0	0.901	8424	1469	18	45	82		RQ
361.8385	38:24	38:20	1	0.901	8969	1523	56	140	27	0.94(1.05-1.43)	
	Empc Correction				6793	1184	56	140	21		
PCB-168 (C153)											
359.8415	38:23	38:20	0	0.901	8424	1469	18	45	82		RQ
361.8385	38:24	38:20	1	0.901	8969	1523	56	140	27	0.94(1.05-1.43)	
	Empc Correction				6793	1184	56	140	21		
PCB-141											
359.8415	38:35						18	45			
361.8385	38:35						56	140			
PCB-130											
359.8415	39:00						18	45			
361.8385	39:00						56	140			
PCB-137											
359.8415	39:12						18	45			
361.8385	39:12						56	140			
PCB-164											
359.8415	39:19						18	45			
361.8385	39:19						56	140			
PCB-129											
359.8415	39:38	39:38	0	0.930	14468	2795	18	45	155		
361.8385	39:39	39:38	1	0.931	10992	2755	56	140	49	1.32(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.930	14468	2795	18	45	155		
361.8385	39:39	39:38	1	0.931	10992	2755	56	140	49	1.32(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:38	39:38	0	0.930	14468	2795	18	45	155		
361.8385	39:39	39:38	1	0.931	10992	2755	56	140	49	1.32(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:38	39:38	0	0.930	14468	2795	18	45	155		
361.8385	39:39	39:38	1	0.931	10992	2755	56	140	49	1.32(1.05-1.43)	
PCB-158											
359.8415	40:02	39:57	2	0.940	2664	948	18	45	53		RQ
	Empc Correction				1709	481	18	45	27		
361.8385	40:02	39:57	2	0.940	1379	388	56	140	7	1.93(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-128											
359.8415	40:55	40:56	4	0.961	2286	579	18	45	32		
361.8385	40:56	40:56	5	0.961	1804	441	56	140	8	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:55	40:56	4	0.961	2286	579	18	45	32		
361.8385	40:56	40:56	5	0.961	1804	441	56	140	8	1.27(1.05-1.43)	
PCB-159											
359.8415	41:51						18	45			
361.8385	41:51						56	140			
PCB-162											
359.8415	42:08						18	45			
361.8385	42:08						56	140			
PCB-167											
359.8415	42:36						18	45			
361.8385	42:36						56	140			
PCB-156											
359.8415	43:48	43:48	1	1.001	2288	450	18	45	25		RQM
	Empc Correction				1470	518	18	45	29		M
361.8385	43:44	43:48	-2	0.999	1186	418	56	140	7	1.93(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:48	43:48	1	1.001	2288	450	18	45	25		RQM
	Empc Correction				1470	518	18	45	29		M
361.8385	43:44	43:48	-2	0.999	1186	418	56	140	7	1.93(1.05-1.43)	
PCB-169											
359.8415	47:00						18	45			
361.8385	47:00						56	140			
PCB-188L											
405.8428	37:00	36:58	1	0.820	2041927	412834	56	140	7372		
407.8398	37:00	36:58	1	0.820	1894642	382330	33	82	11586	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:04	40:01	1	0.888	1328740	266172	56	140	4753		
407.8398	40:03	40:01	1	0.888	1249532	244423	33	82	7407	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:07	0		1596971	315037	56	140	5626		
407.8398	45:08	45:07	1		1458569	284026	33	82	8607	1.09(0.89-1.21)	
PCB-170L											
405.8428	46:24	46:22	0	1.028	1201818	225355	56	140	4024		
407.8398	46:24	46:22	0	1.028	1135532	222913	33	82	6755	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:30	49:27	1	1.097	2661671	493668	1167	2917	423		
407.8398	49:30	49:27	1	1.097	2493832	470590	726	1815	648	1.07(0.89-1.21)	
PCB-188											
393.8025	37:02						1	2			
395.7995	37:02						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											RQ
393.8025	37:24	37:24	1	1.011	1134	380	1	2	380		
395.7995	37:23	37:24	1	1.010	1464	496	1	2	496	0.77(0.89-1.21)	
Empc Correction					1080	361	1	2	361		
PCB-184											
393.8025	37:53						1	2			
395.7995	37:53						1	2			
PCB-176											
393.8025	38:16						1	2			
395.7995	38:16						1	2			
PCB-186											
393.8025	38:43						1	2			
395.7995	38:43						1	2			
PCB-178											
393.8025	40:05						1	2			
395.7995	40:05						1	2			
PCB-175											
393.8025	40:43						1	2			
395.7995	40:43						1	2			
PCB-187											
393.8025	41:02	40:54	4	1.109	750	212	1	2	212		
395.7995	41:01	40:54	4	1.109	659	201	1	2	201	1.14(0.89-1.21)	
PCB-182											
393.8025	41:11						1	2			
395.7995	41:11						1	2			
PCB-183											
393.8025	41:37	41:38	3	1.125	1449	396	1	2	396		
395.7995	41:34	41:38	0	1.123	1438	323	1	2	323	1.01(0.89-1.21)	
PCB-185 (C183)											
393.8025	41:37	41:38	3	1.125	1449	396	1	2	396		
395.7995	41:34	41:38	0	1.123	1438	323	1	2	323	1.01(0.89-1.21)	
PCB-174											
393.8025	41:50						1	2			
395.7995	41:50						1	2			
PCB-177											
393.8025	42:19	42:17	4	1.144	368	180	1	2	180		
395.7995	42:19	42:17	3	1.143	363	112	1	2	112	1.01(0.89-1.21)	
PCB-181											
393.8025	42:40						1	2			
395.7995	42:40						1	2			
PCB-171											
393.8025	42:55						1	2			
395.7995	42:55						1	2			
PCB-173 (C171)											
393.8025	42:55						1	2			
395.7995	42:55						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:31						1	2			
395.7995	44:31						1	2			
PCB-192											
393.8025	44:46						1	2			
395.7995	44:46						1	2			
PCB-180											
393.8025	45:10	45:09	4	0.912	1570	559	1	2	559		
395.7995	45:09	45:09	3	0.912	1319	449	1	2	449	1.19(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:10	45:09	4	0.912	1570	559	1	2	559		
395.7995	45:09	45:09	3	0.912	1319	449	1	2	449	1.19(0.89-1.21)	
PCB-191											
393.8025	45:31						1	2			
395.7995	45:31						1	2			
PCB-170											
393.8025	46:24	46:23	0	0.938	628	287	1	2	287		
395.7995	46:27	46:23	2	0.938	565	154	1	2	154	1.11(0.89-1.21)	
PCB-190											
393.8025	46:56						1	2			
395.7995	46:56						1	2			
PCB-189											
393.8025	49:31						10	25			
395.7995	49:31						19	47			
PCB-202L											
439.8038	42:22	42:19	1	0.821	1251049	252019	11	27	22911		
441.8008	42:22	42:19	1	0.821	1363657	266504	38	95	7013	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:36	51:35	1		1845164	335369	77	192	4355		
441.8008	51:36	51:35	0		1994103	363949	104	260	3500	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:04	52:02	1	1.009	1976077	369770	77	192	4802		
441.8008	52:04	52:02	1	1.009	2151556	396232	104	260	3810	0.92(0.76-1.02)	
PCB-202											
427.7635	42:24						8	20			
429.7606	42:24						1	2			
PCB-201											
427.7635	43:18						8	20			
429.7606	43:18						1	2			
PCB-204											
427.7635	43:59						8	20			
429.7606	43:59						1	2			
PCB-197											
427.7635	44:12						8	20			
429.7606	44:12						1	2			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:20						8	20			
429.7606	44:20						1	2			
PCB-198											
427.7635	47:06						8	20			
429.7606	47:06						1	2			
PCB-199 (C198)											
427.7635	47:06						8	20			
429.7606	47:06						1	2			
PCB-196											
427.7635	47:45						8	20			
429.7606	47:45						1	2			
PCB-203											
427.7635	47:56	47:57	0	0.921	301	111	8	20	14		RQ
429.7606	47:57	47:57	0	0.921	403	184	1	2	184	0.75(0.76-1.02)	
	Empc Correction				338	124	1	2	124		
PCB-195											
427.7635	49:17						28	70			
429.7606	49:17						18	45			
PCB-194											
427.7635	51:37						28	70			
429.7606	51:37						18	45			
PCB-205											
427.7635	52:05						28	70			
429.7606	52:05						18	45			
PCB-208L											
473.7648	49:01	48:59	0	0.950	1516494	297778	226	565	1318		
475.7619	49:01	48:59	0	0.950	1906600	365137	225	562	1623	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:47	0	1.043	1119310	211629	226	565	936		
475.7619	53:48	53:47	0	1.043	1426517	269196	225	562	1196	0.78(0.65-0.89)	
PCB-208											
461.7246	49:02						59	147			
463.7216	49:02						227	567			
PCB-207											
461.7246	49:57						59	147			
463.7216	49:57						227	567			
PCB-206											
461.7246	53:50						59	147			
463.7216	53:50						227	567			
PCB-209L											
507.7258	55:25	55:23	1	1.074	1109602	198236	66	165	3004		
509.7229	55:25	55:23	1	1.074	1562497	281205	38	95	7400	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:26	55:30	-1	1.000	1817	416	5	12	83		RQM
	Empc Correction				698	162	5	12	32		M
497.6826	55:30	55:30	4	1.002	1012	235	1	2	235	1.80(0.59-0.79)	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

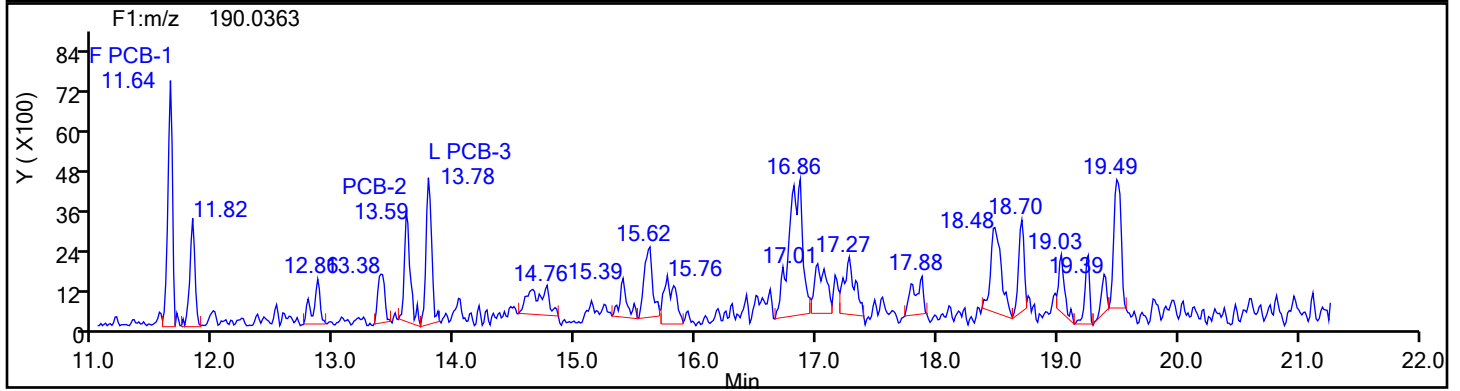
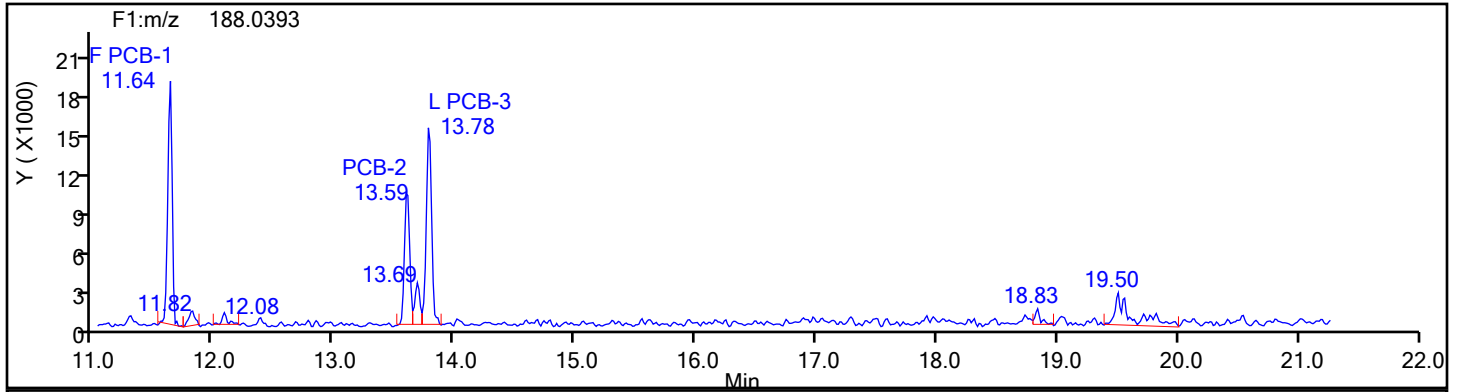
M - Manually Integrated

U - Marked Undetected

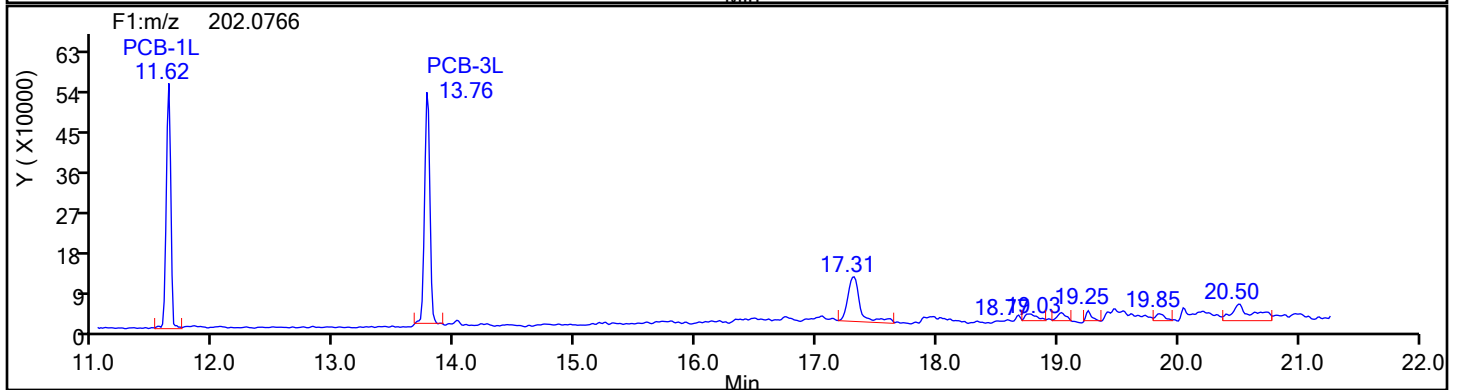
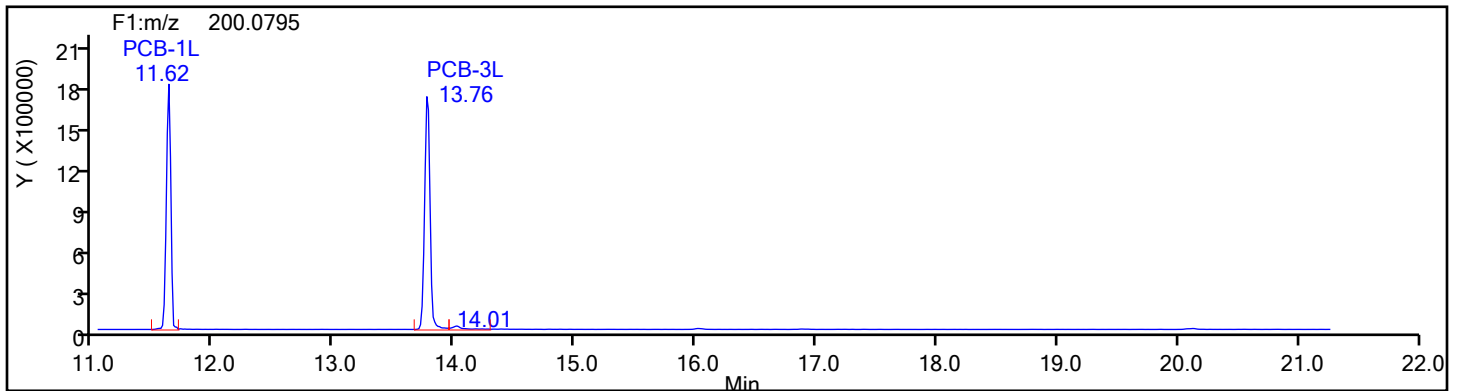
a - User Assigned ID

Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

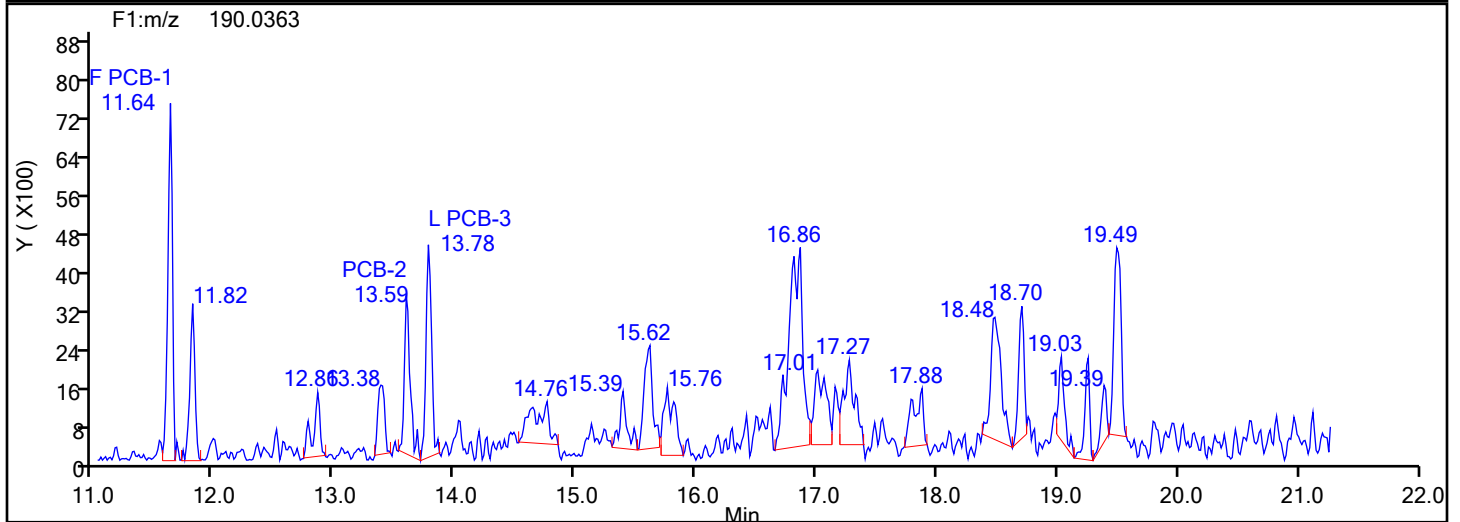
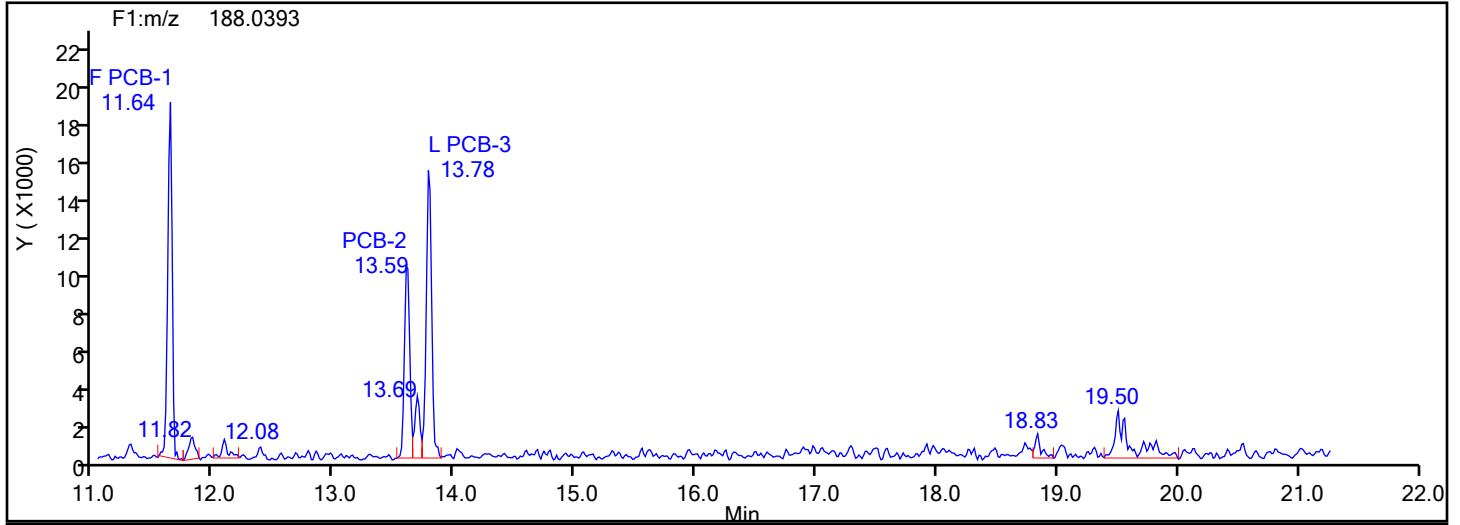


MoPCB F1 Standards

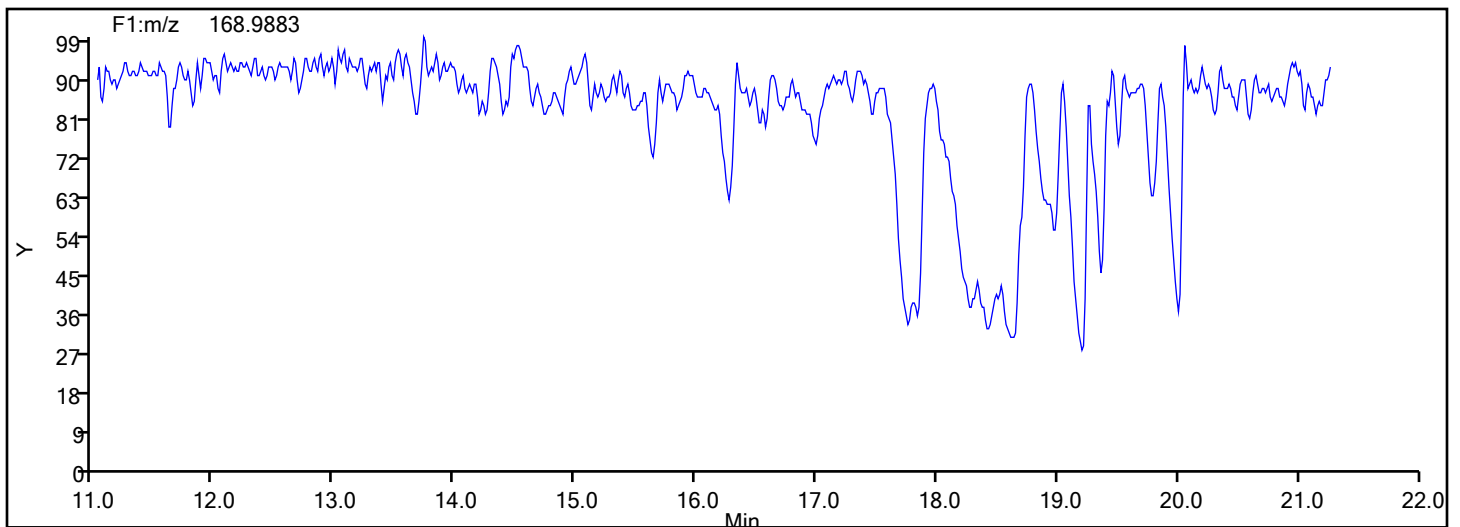


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

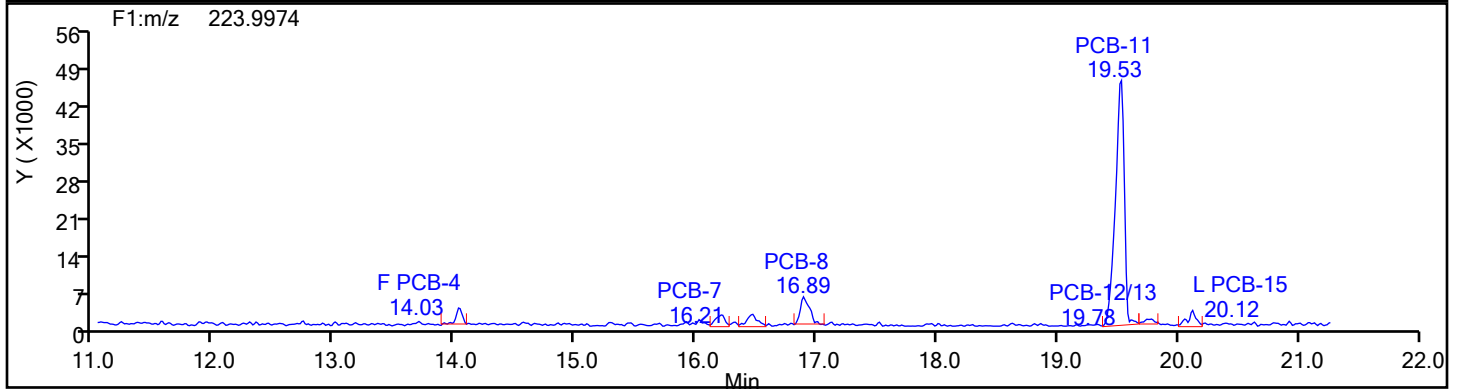
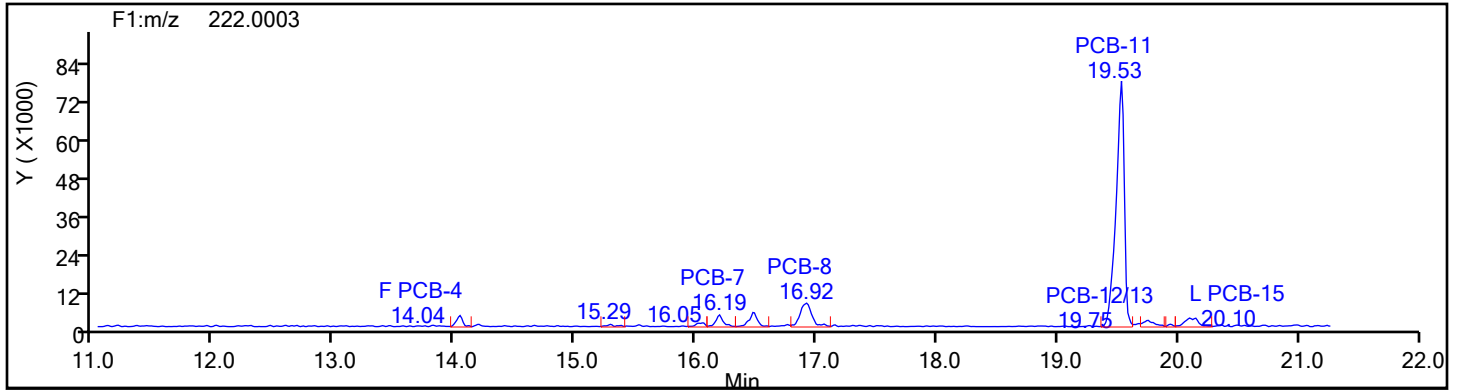


MoPCB F1 Lock Mass

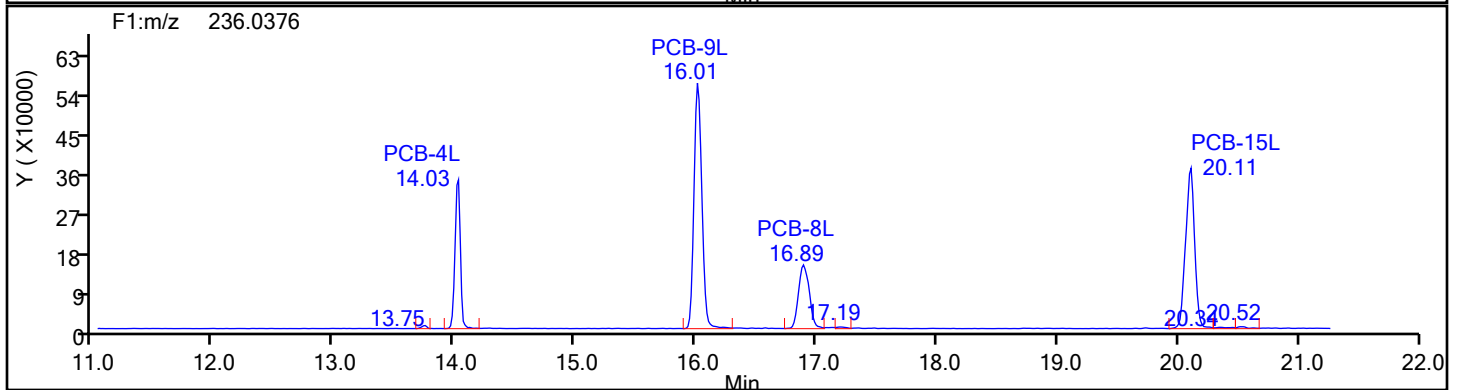
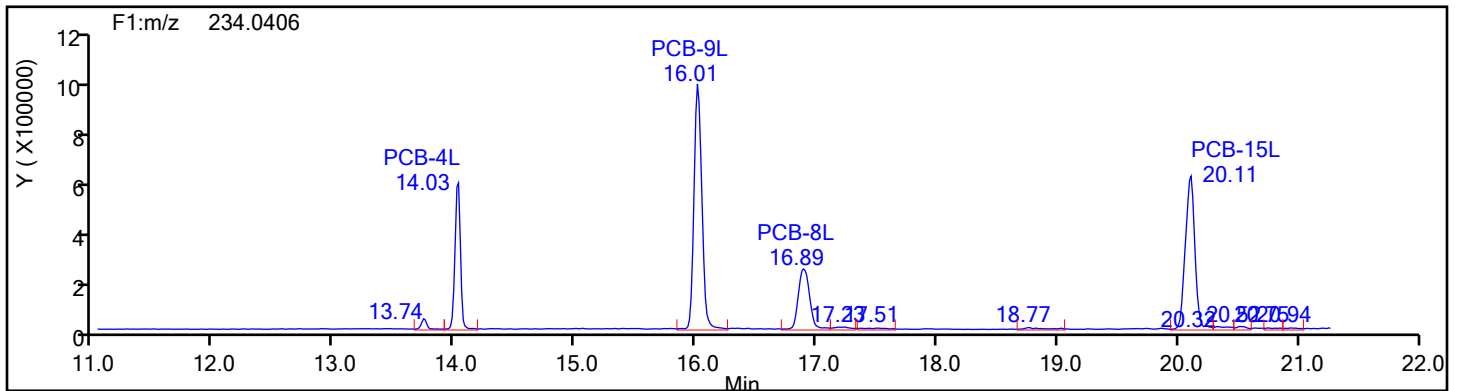


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

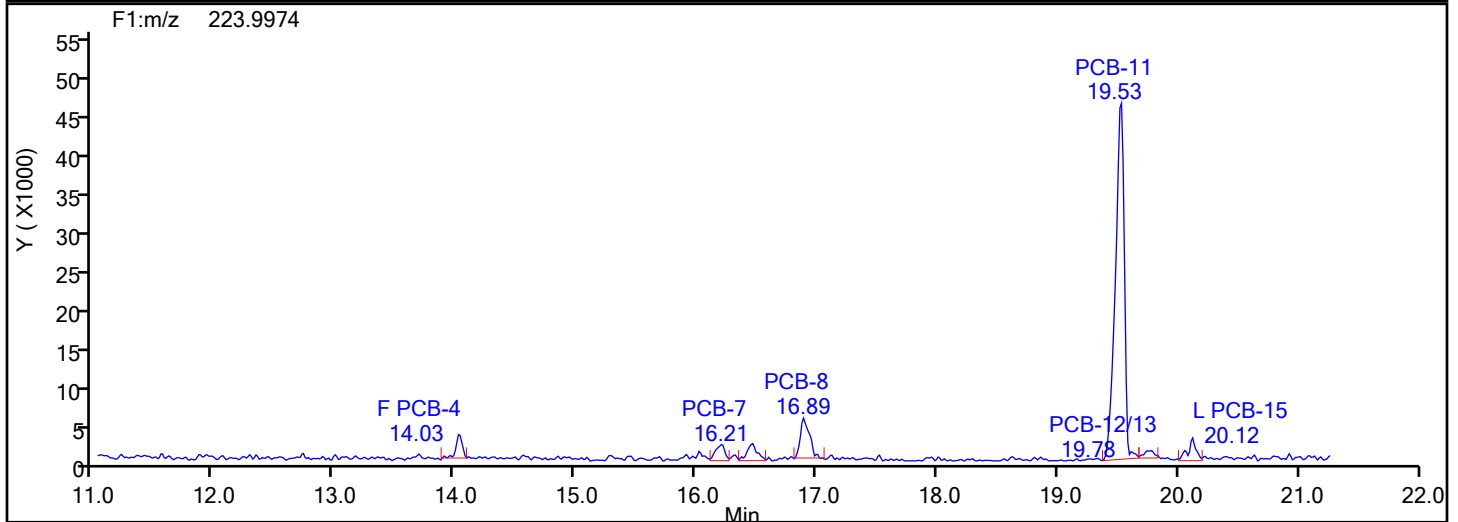
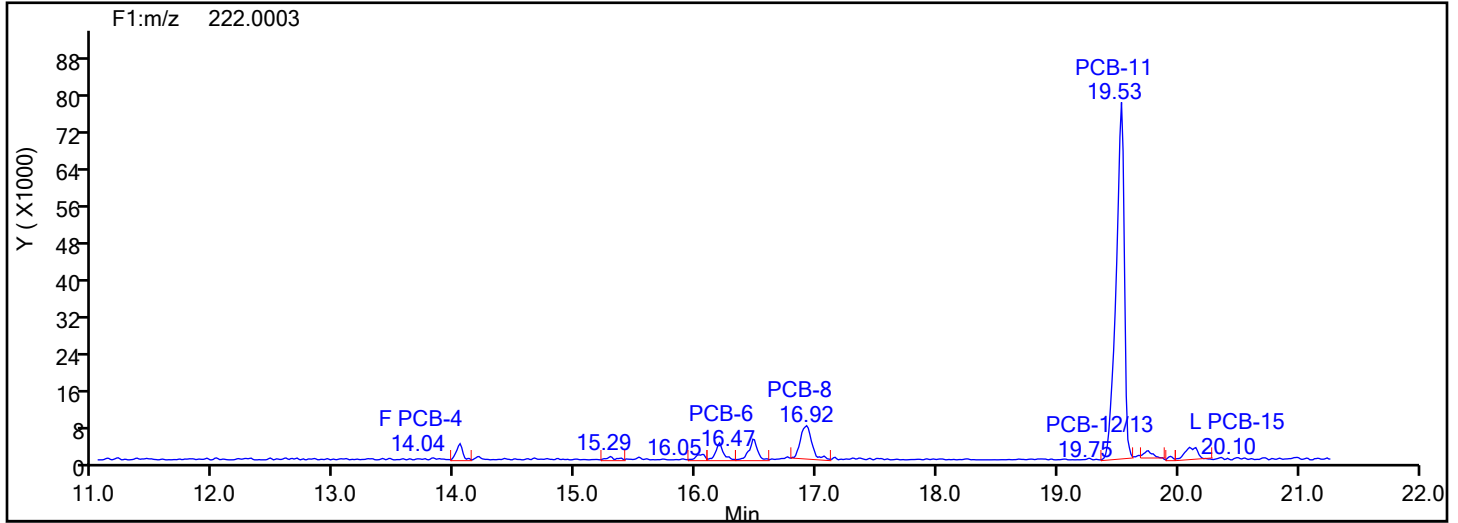


DiPCB F1 Standards

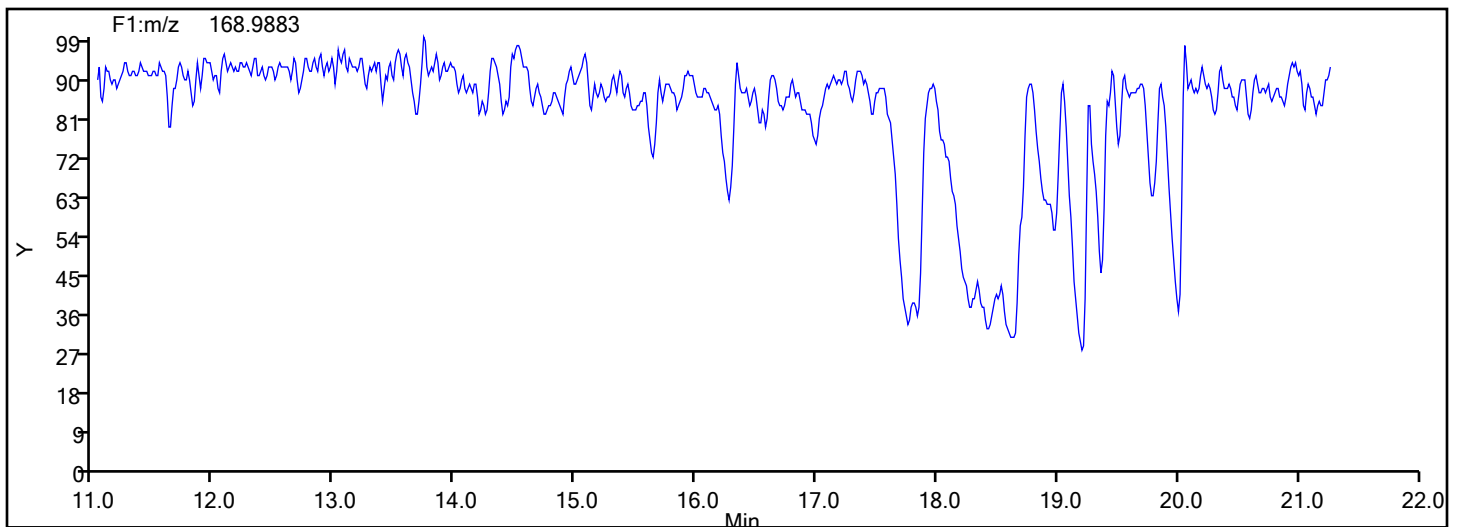


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

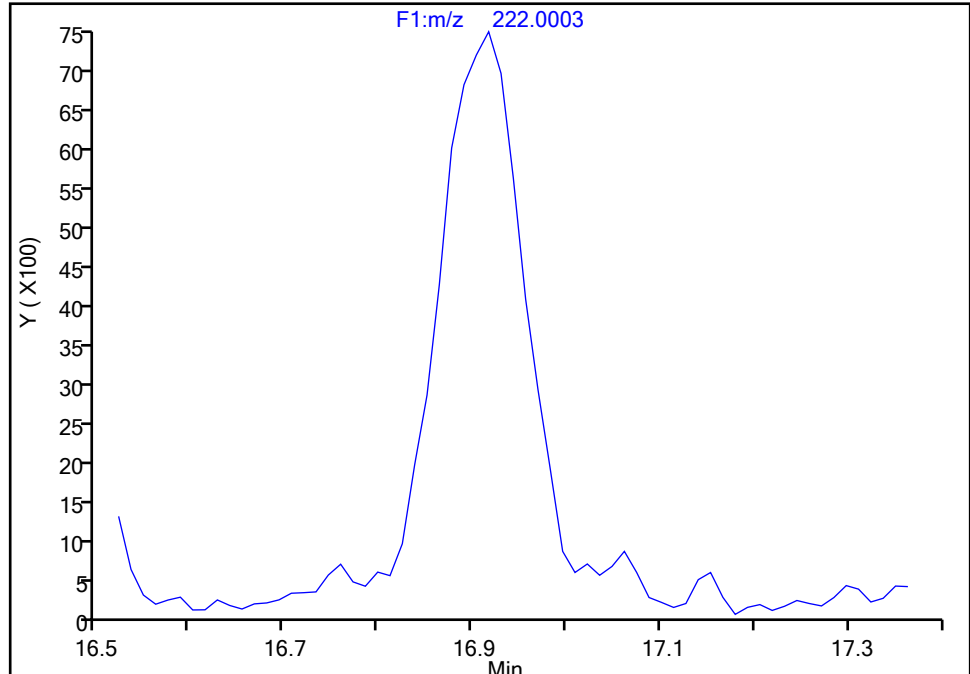
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Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

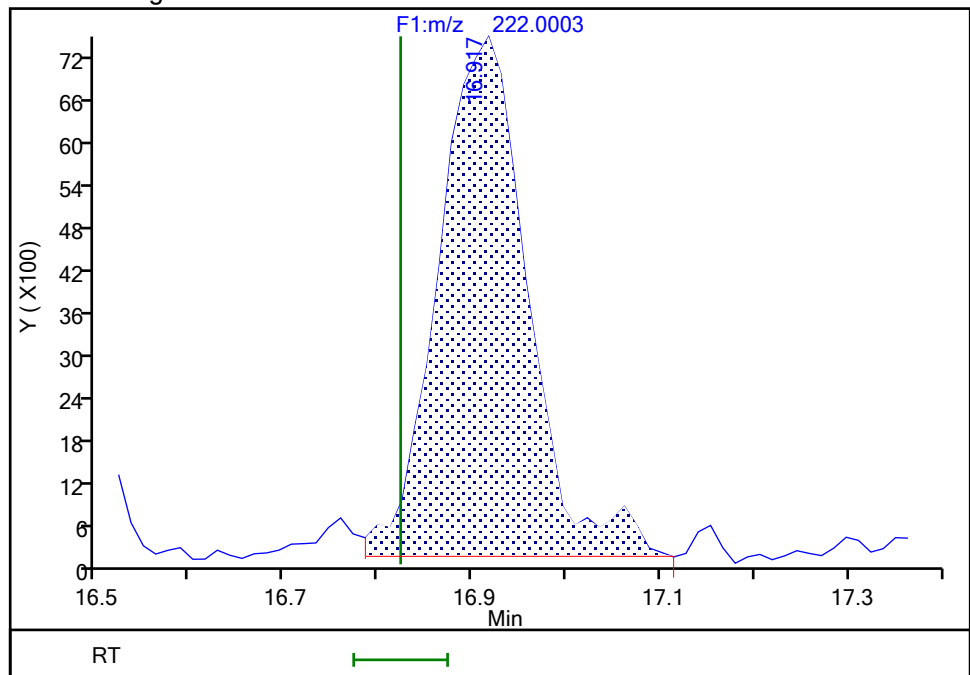
Not Detected
Expected RT: 16.82

Processing Integration Results



RT: 16.92
Area: 48415
Amount: 1.236341
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:03:12 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

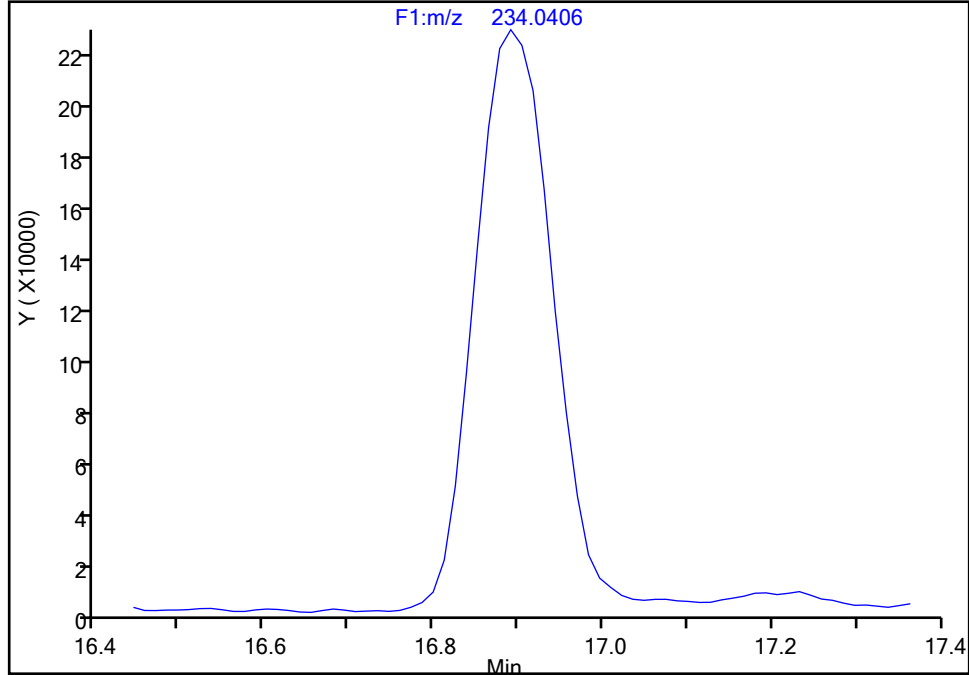
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

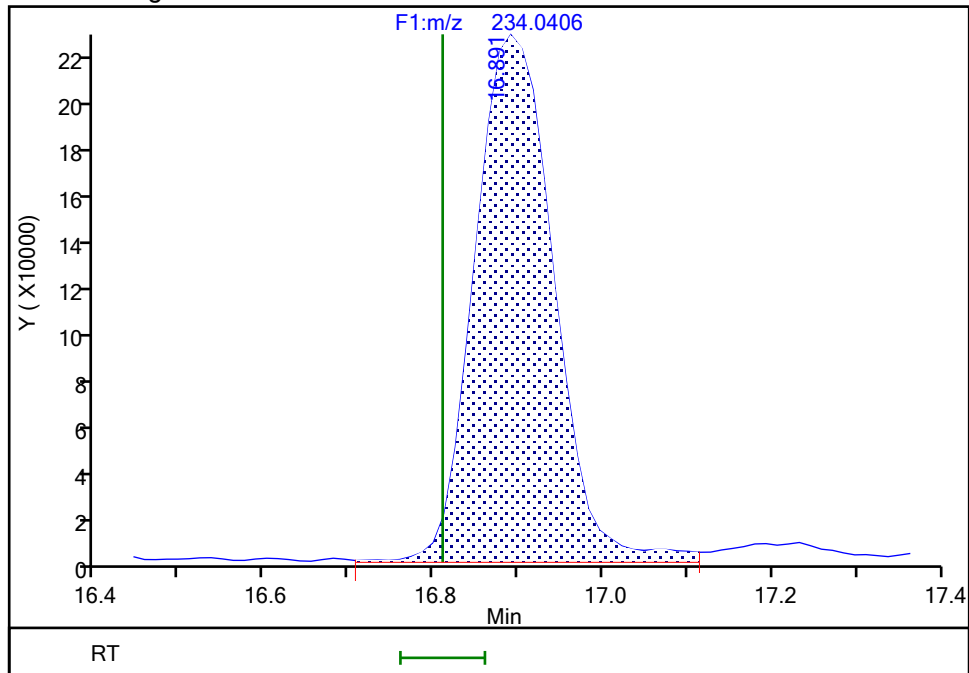
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.89
Area: 1459046
Amount: 49.972609
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:02:06 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

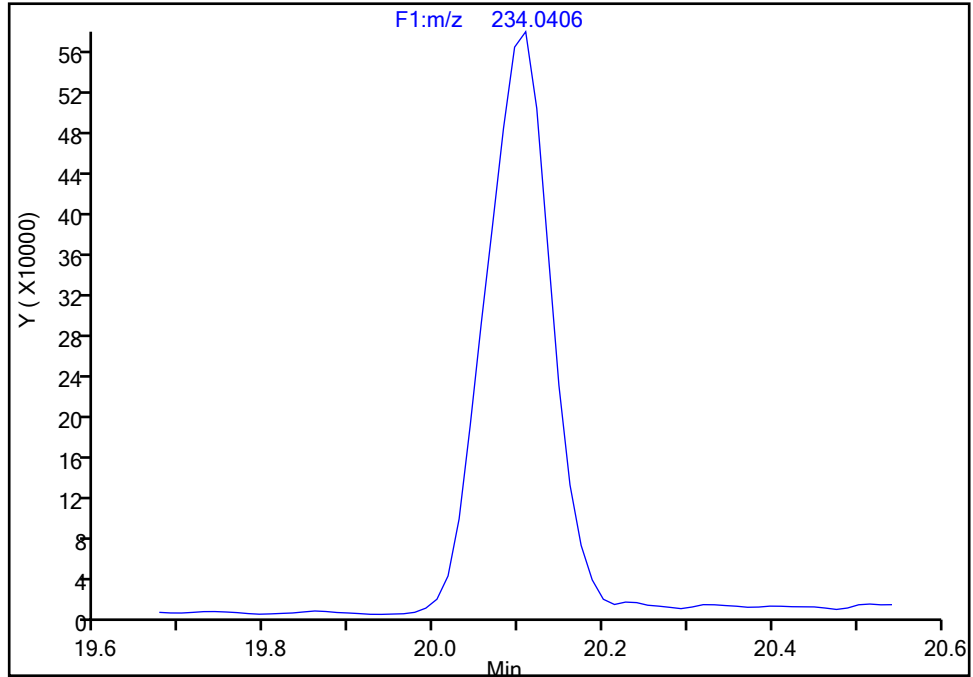
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Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-15L, CAS: 208263-67-6

Signal: 1

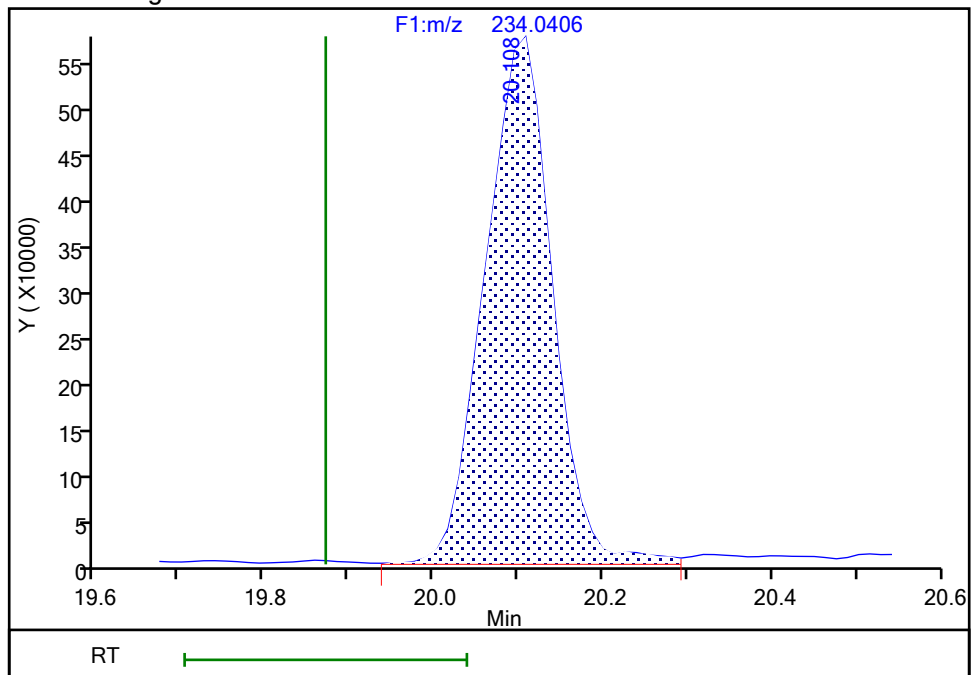
Not Detected
Expected RT: 19.87

Processing Integration Results



RT: 20.11
Area: 3140349
Amount: 69.846151
Amount Units: pg/ul

Manual Integration Results



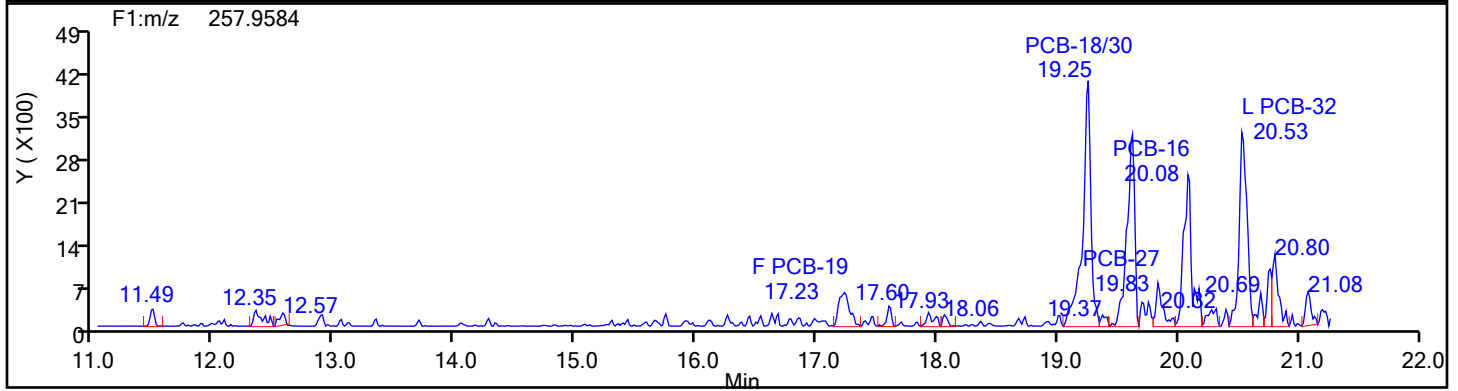
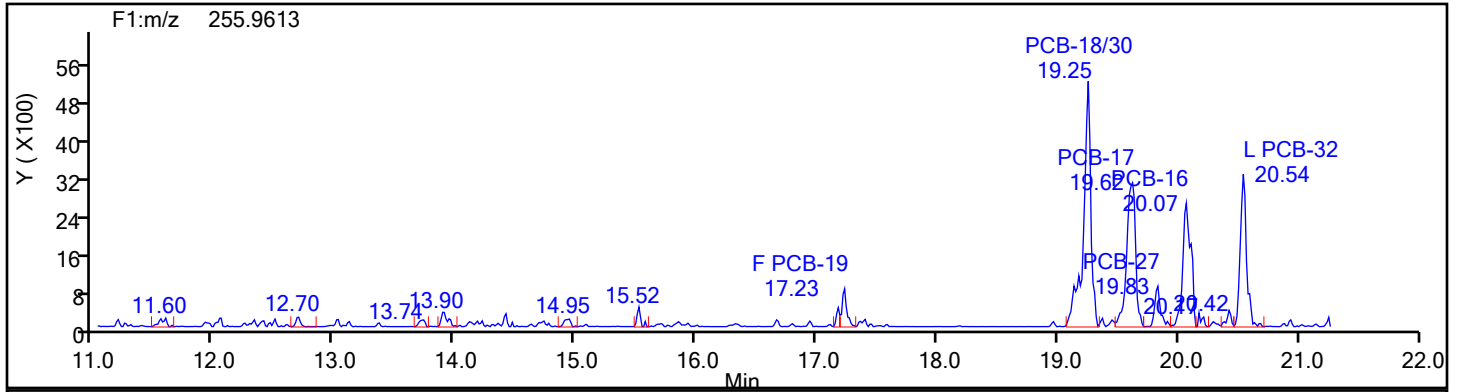
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Audit Action: Assigned Compound ID

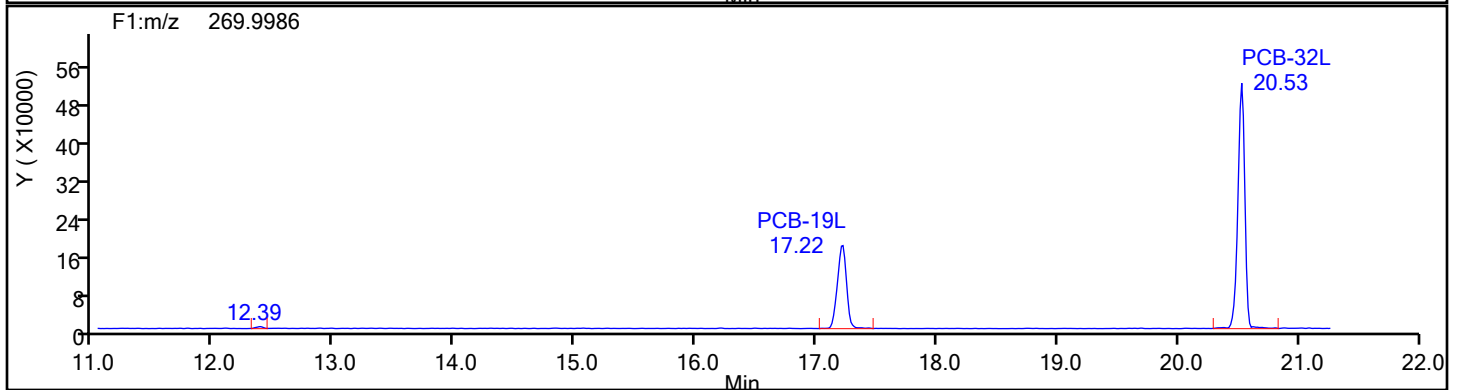
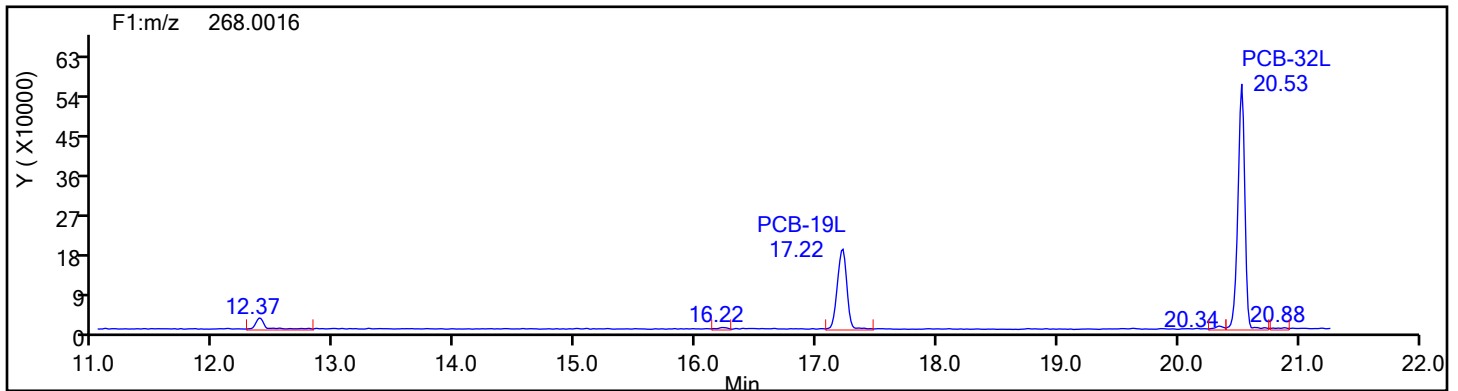
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

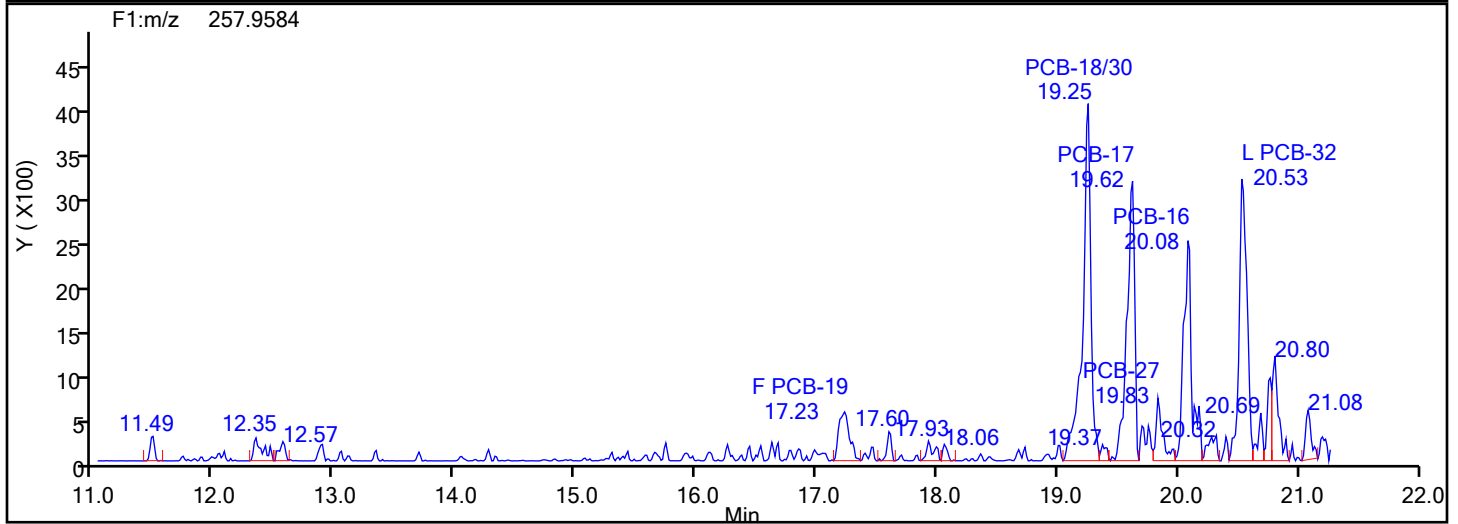
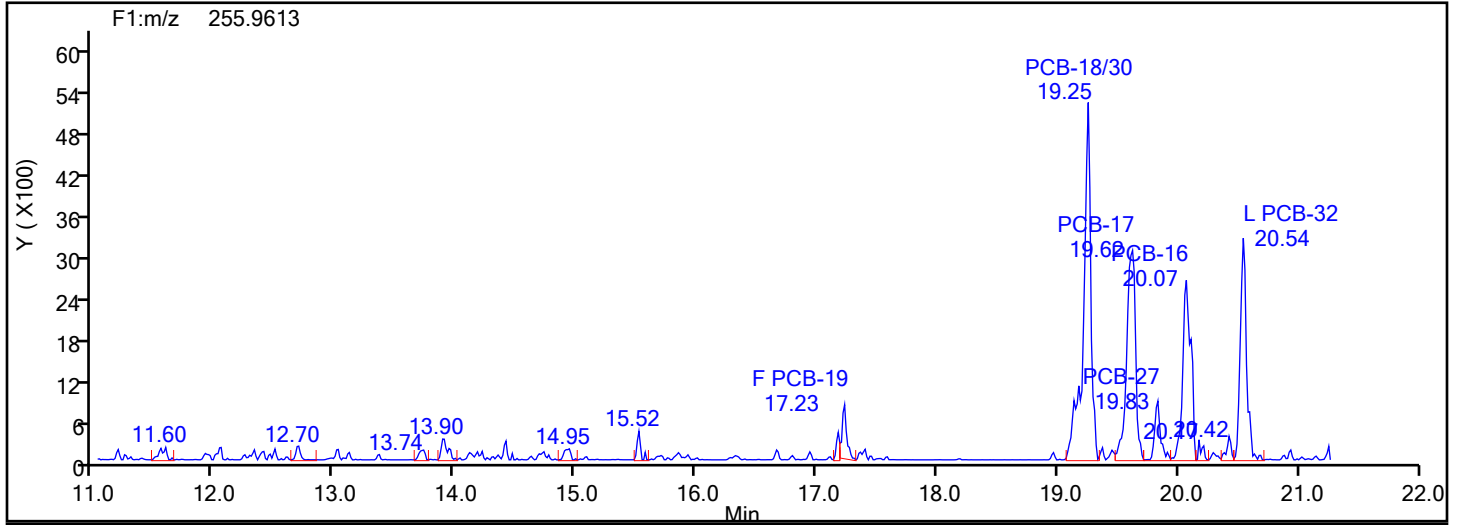


TriPCB F1 Standards

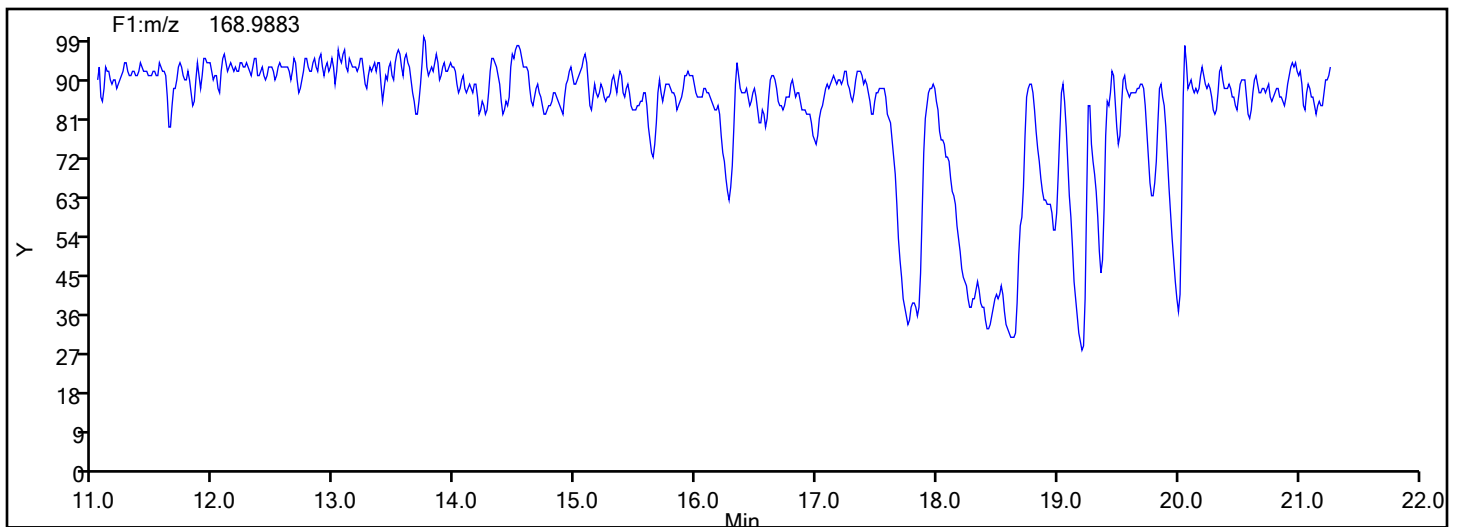


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

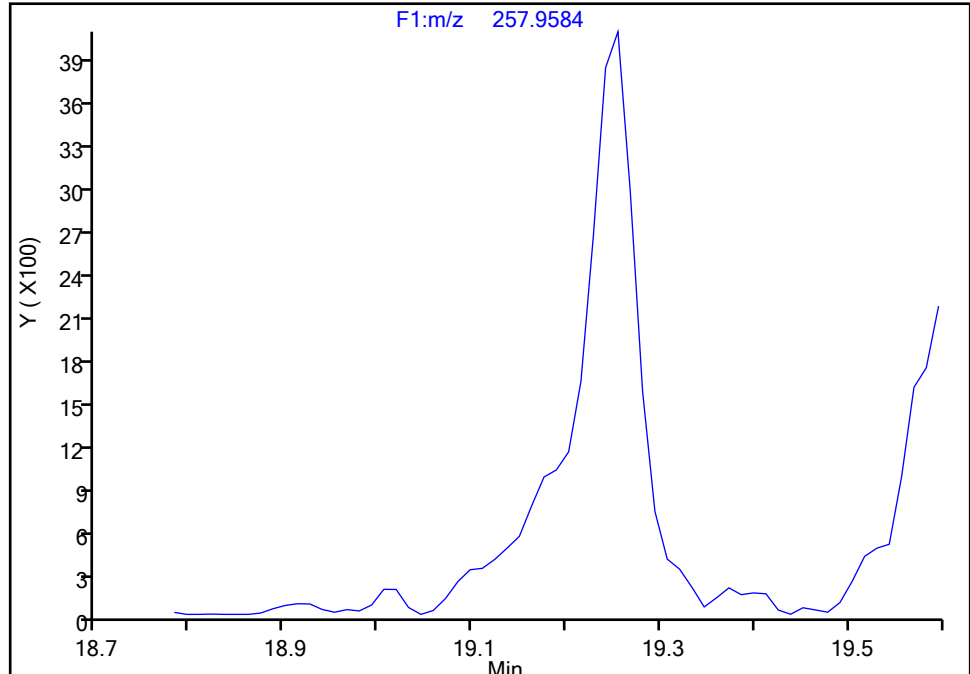
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

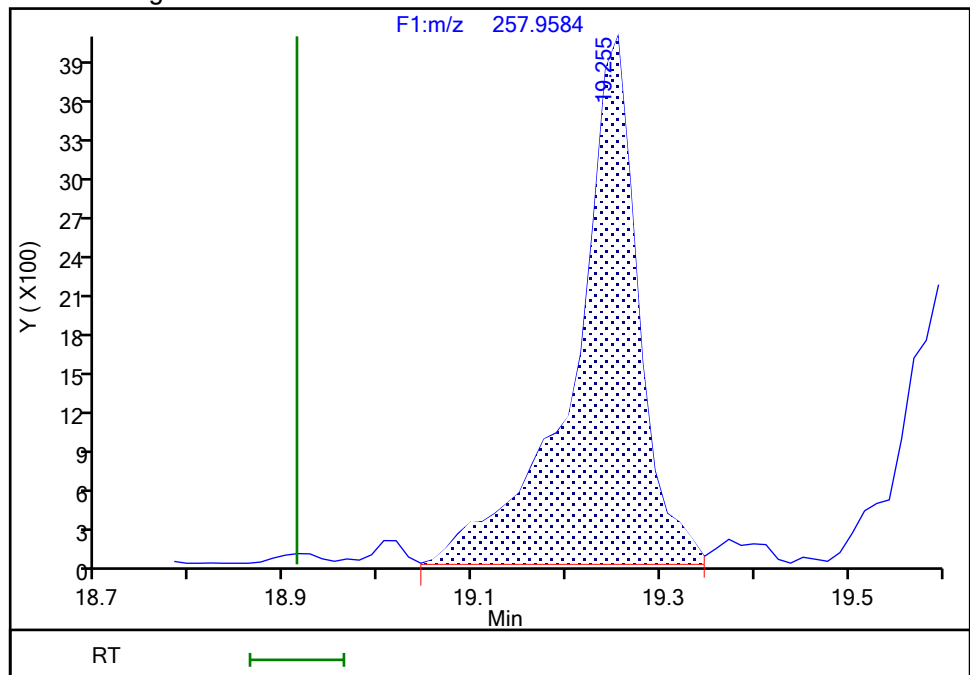
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.25
Area: 19228
Amount: 1.233312
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:04:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

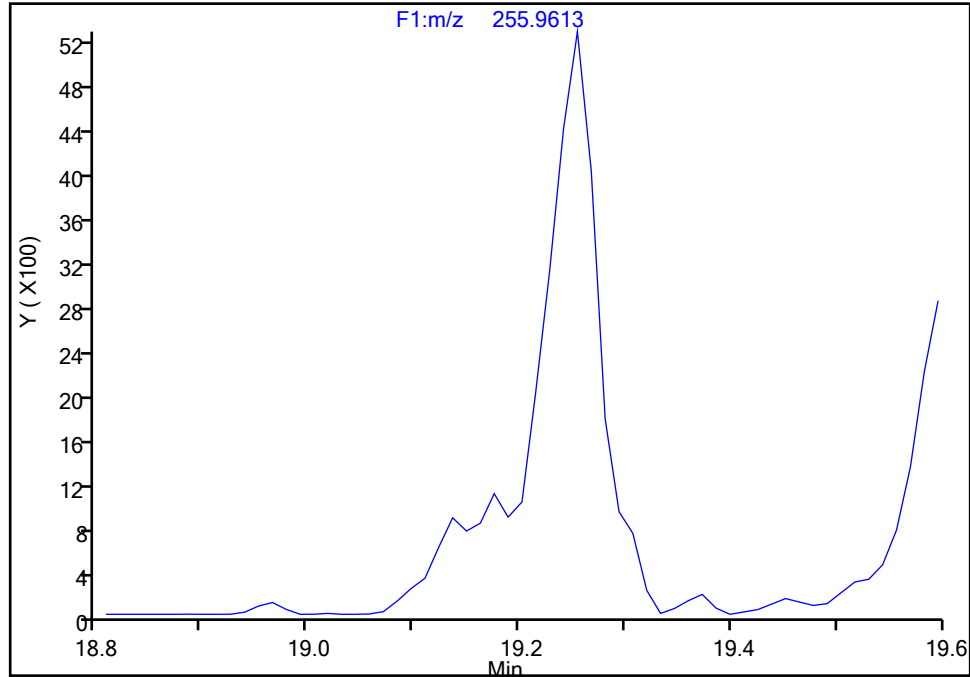
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Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

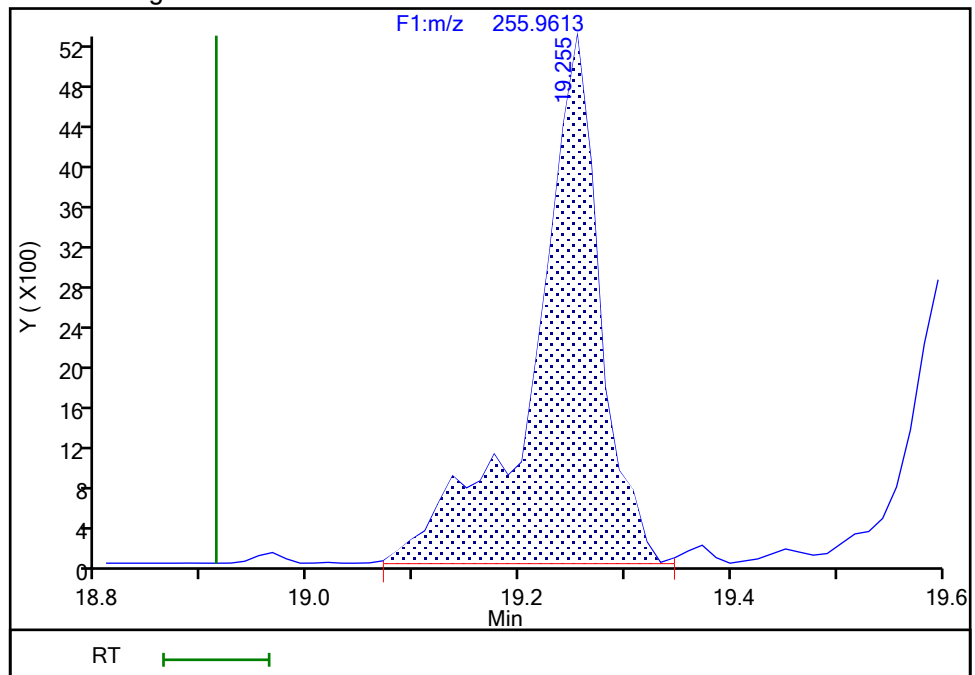
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.25
Area: 22522
Amount: 1.233312
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:04:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1496 of 3050

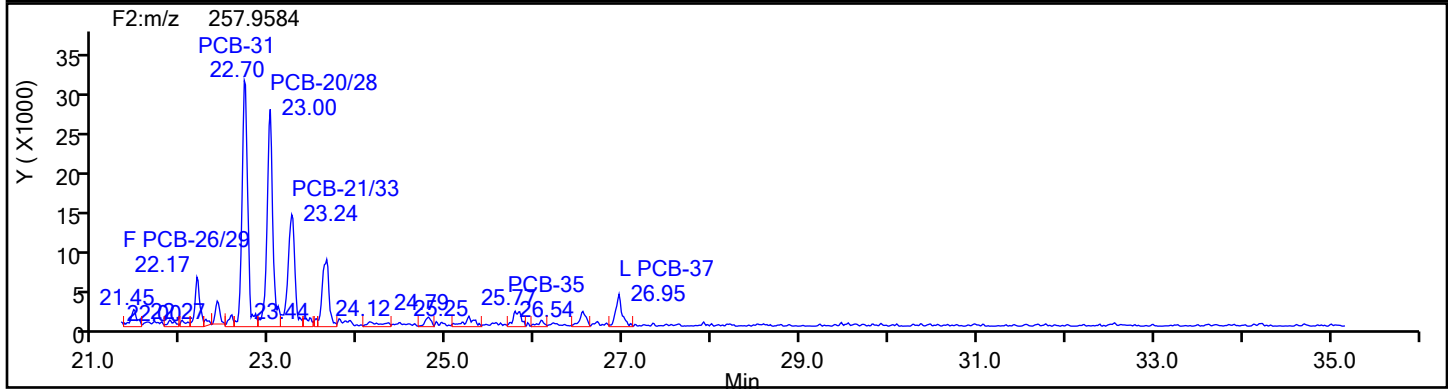
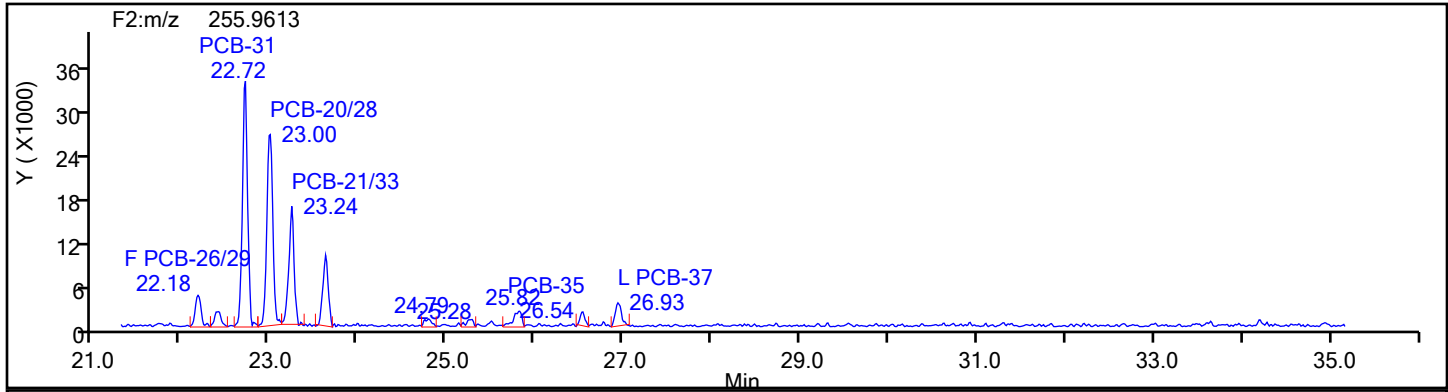
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9/6/2024

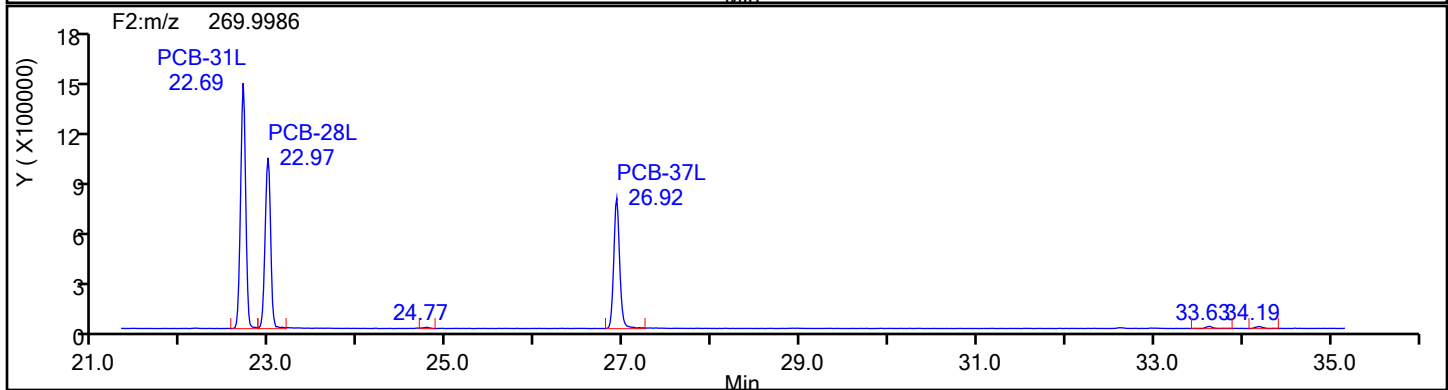
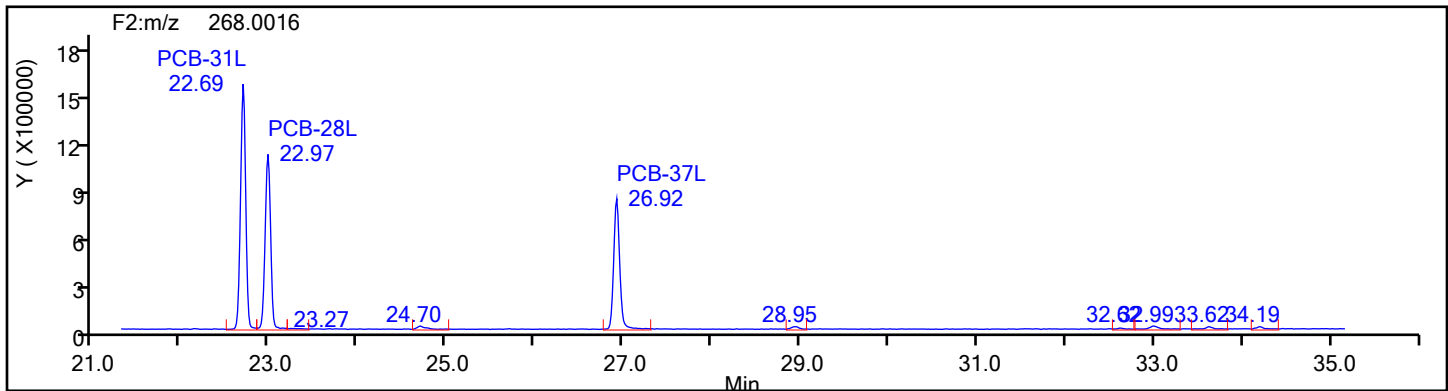
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

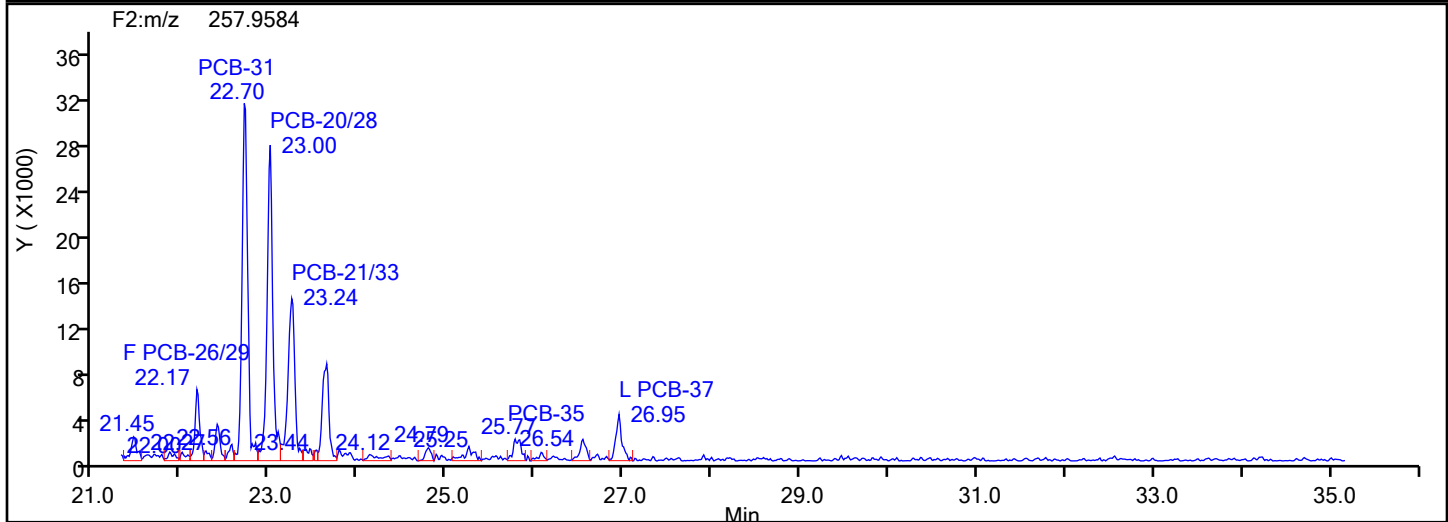
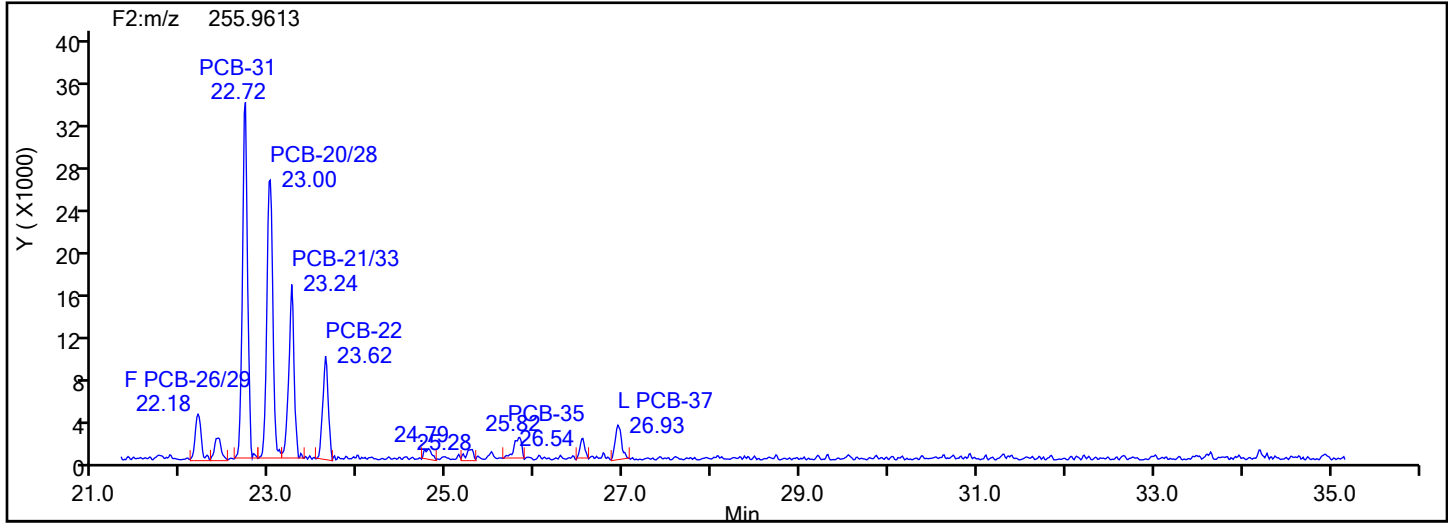


TriPCB F2 Standards

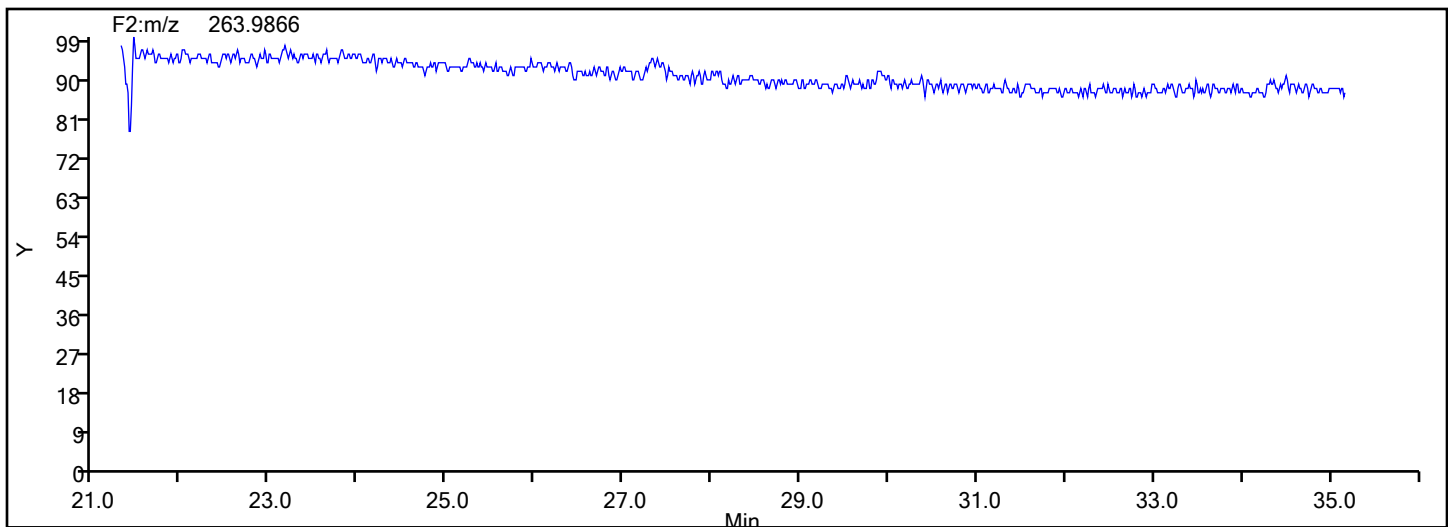


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

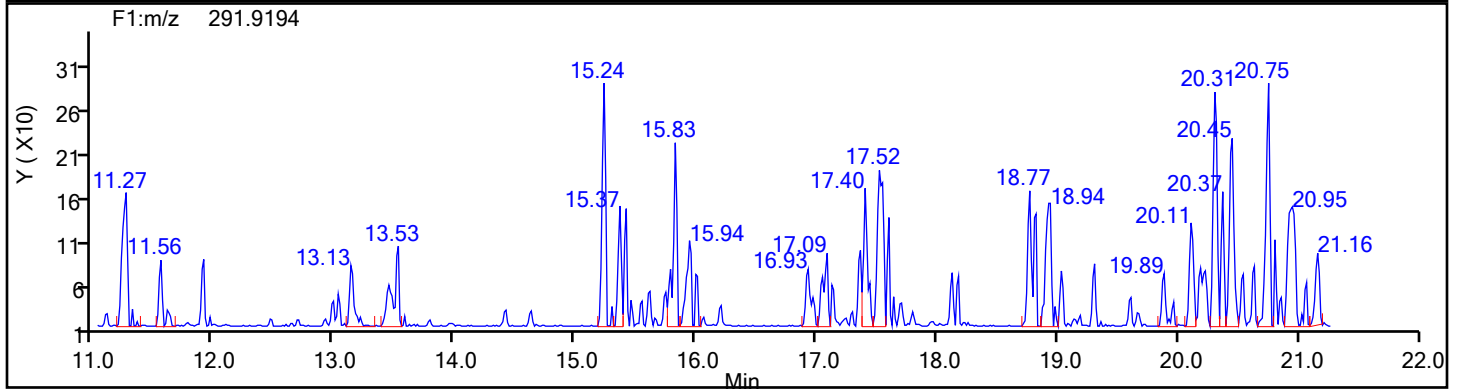
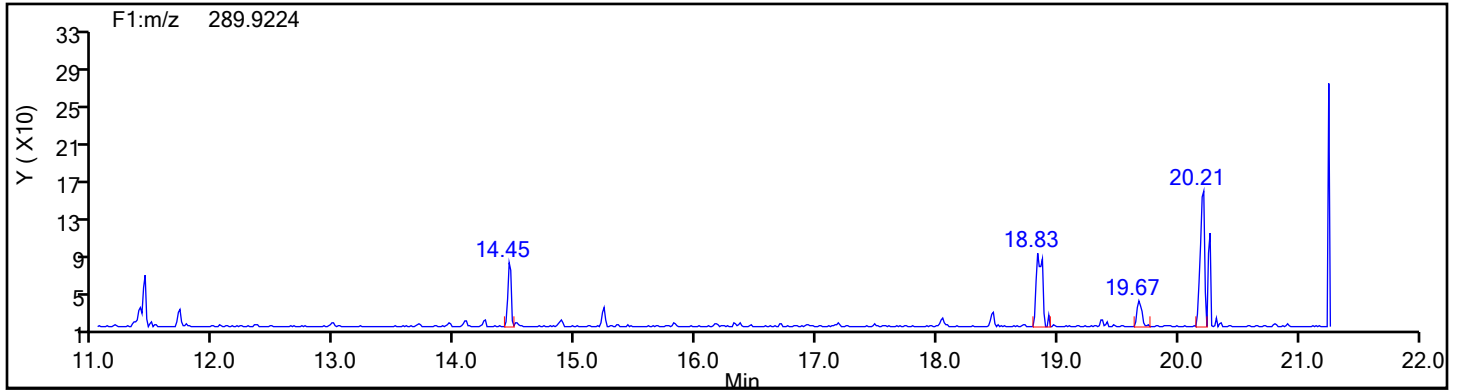


TriPCB F2 Lock Mass

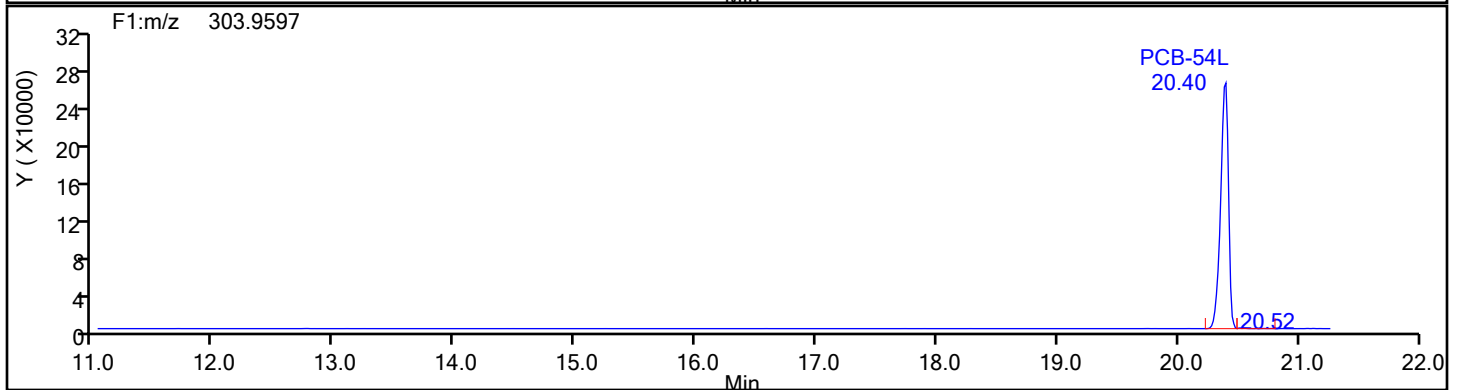
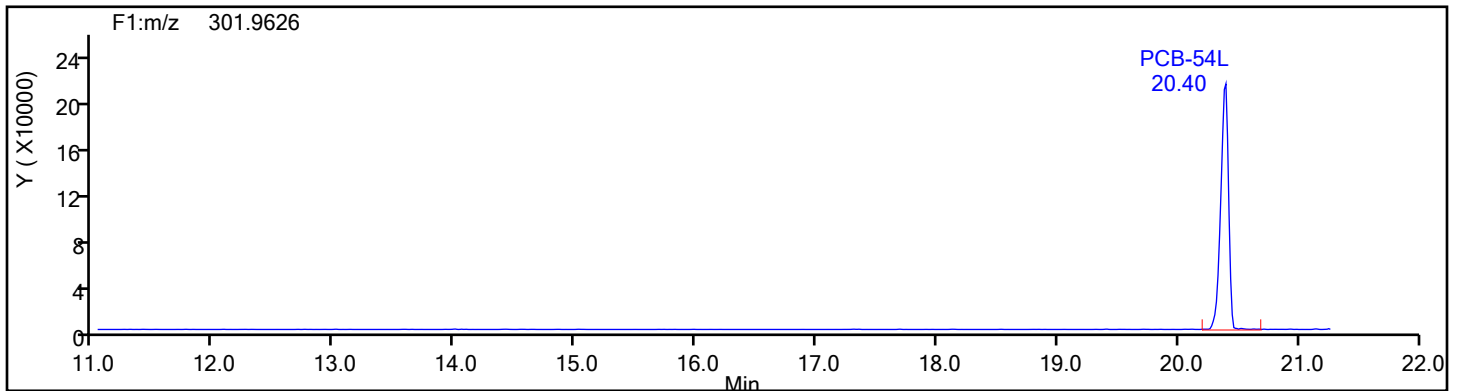


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

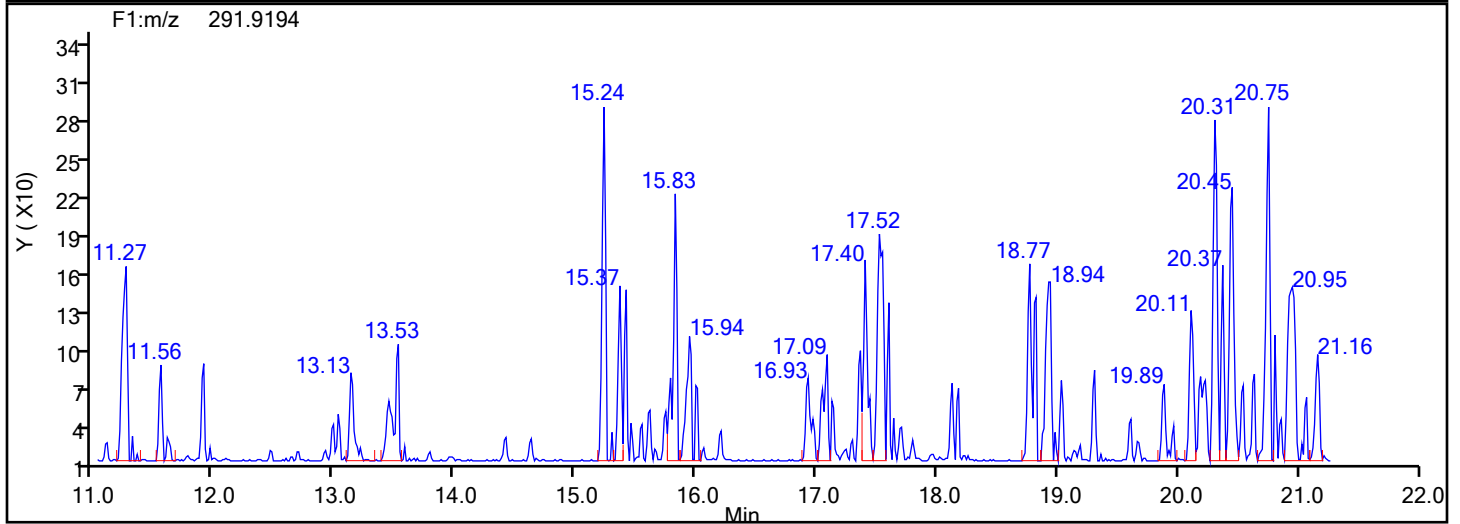
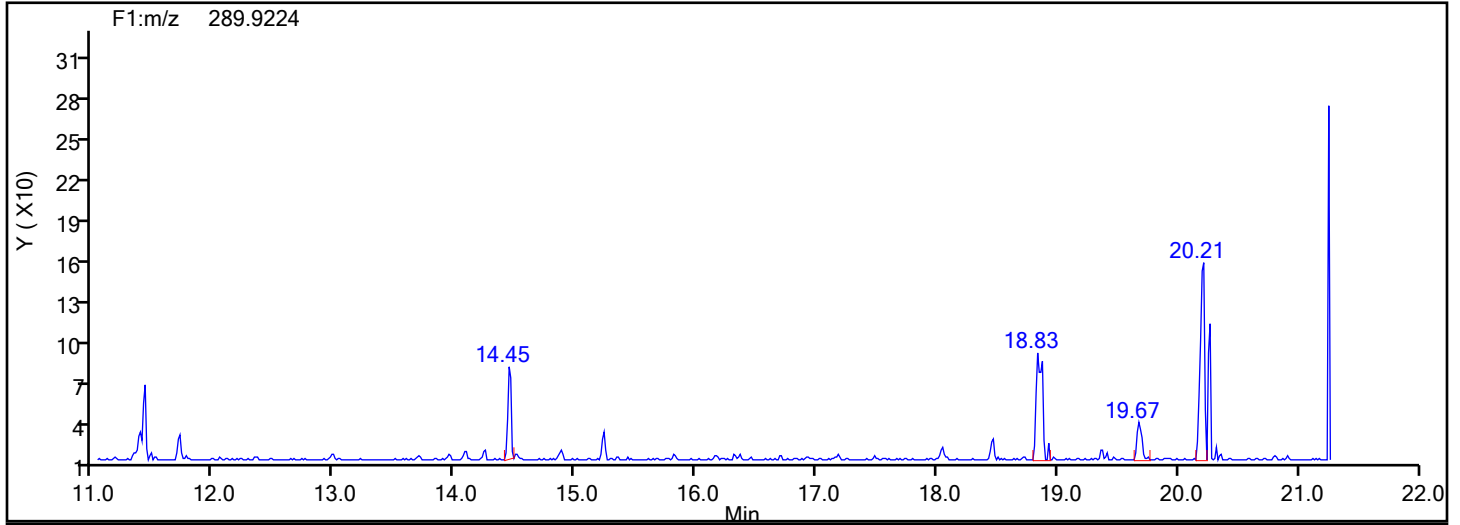


TePCB F1 Standards

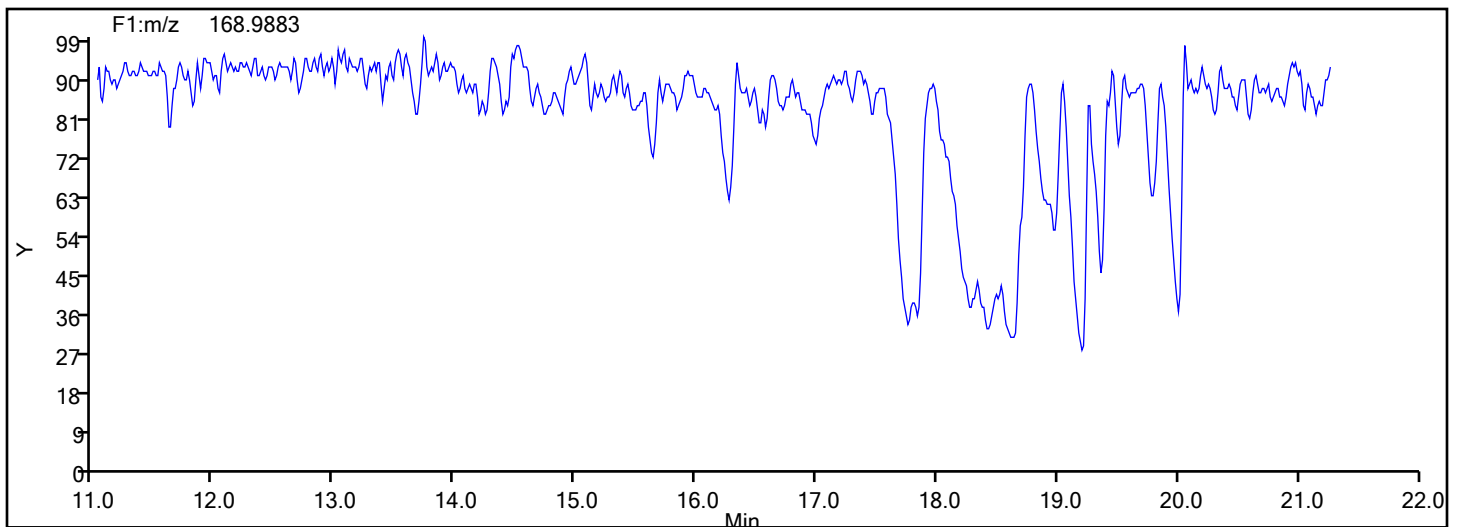


Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

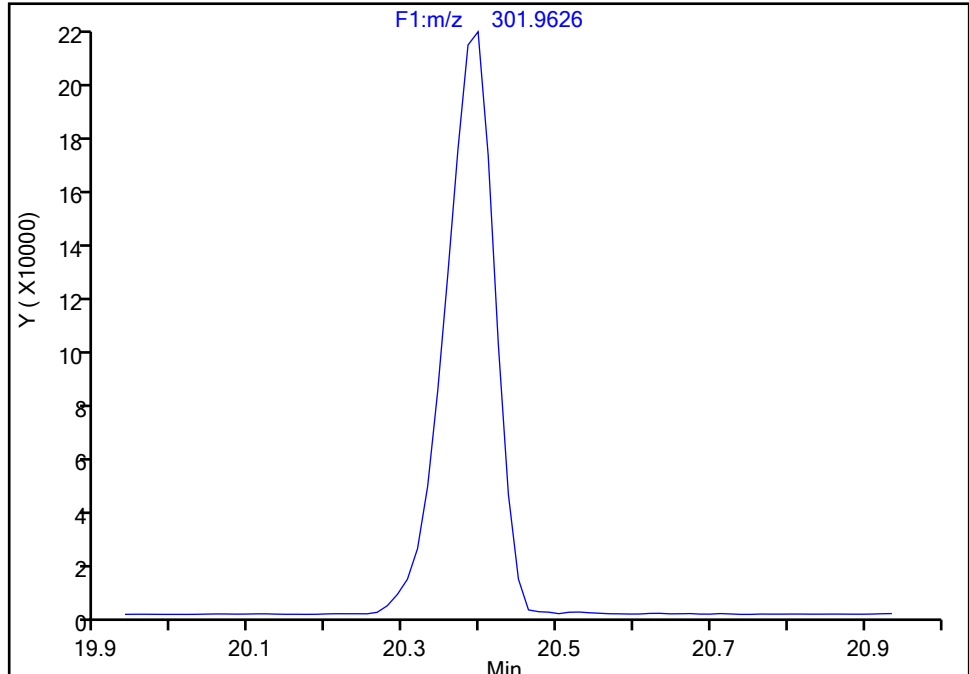
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 1

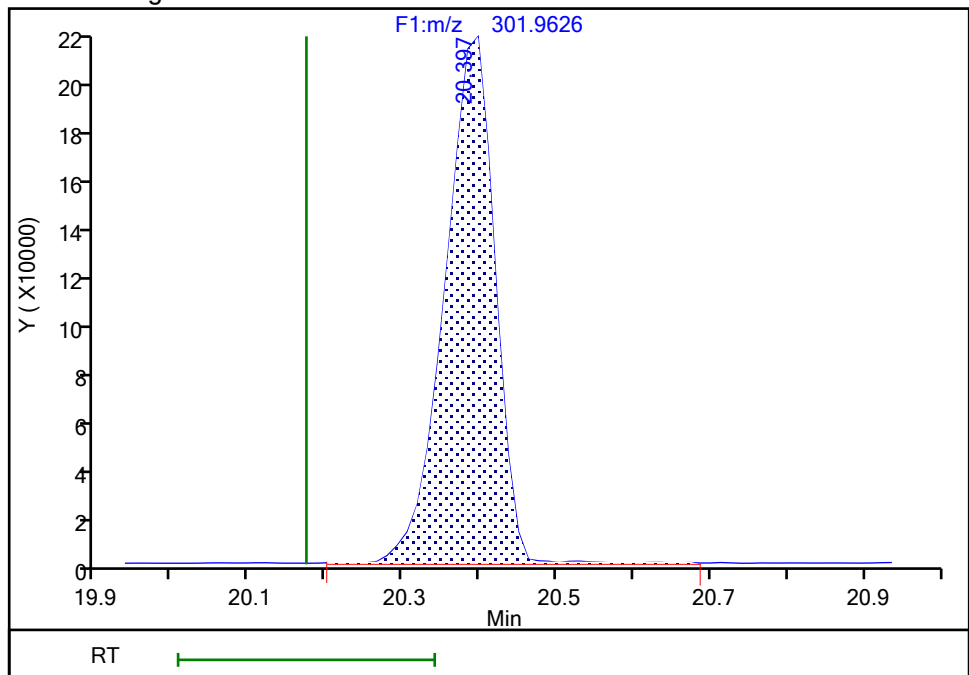
Not Detected
Expected RT: 20.17

Processing Integration Results



RT: 20.40
Area: 954604
Amount: 89.443479
Amount Units: pg/ul

Manual Integration Results



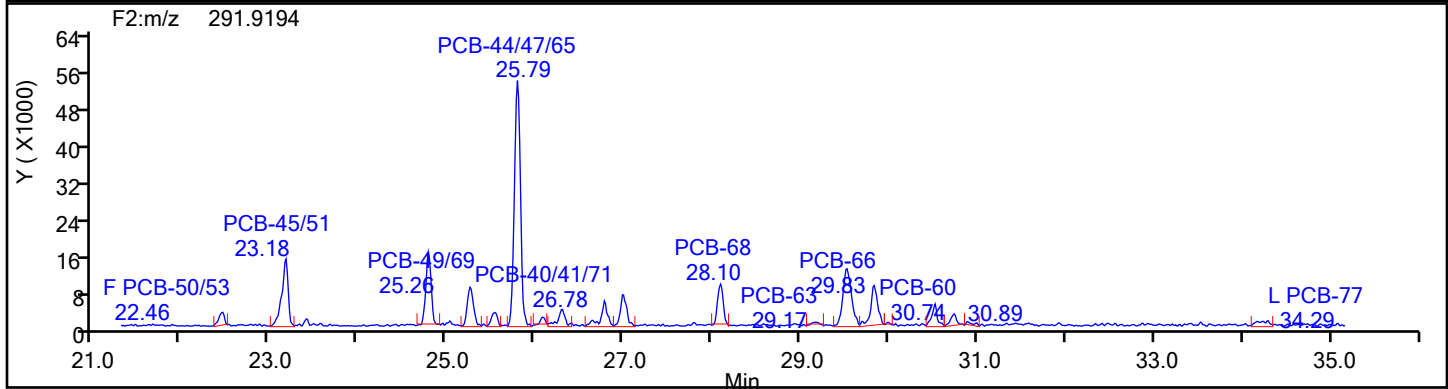
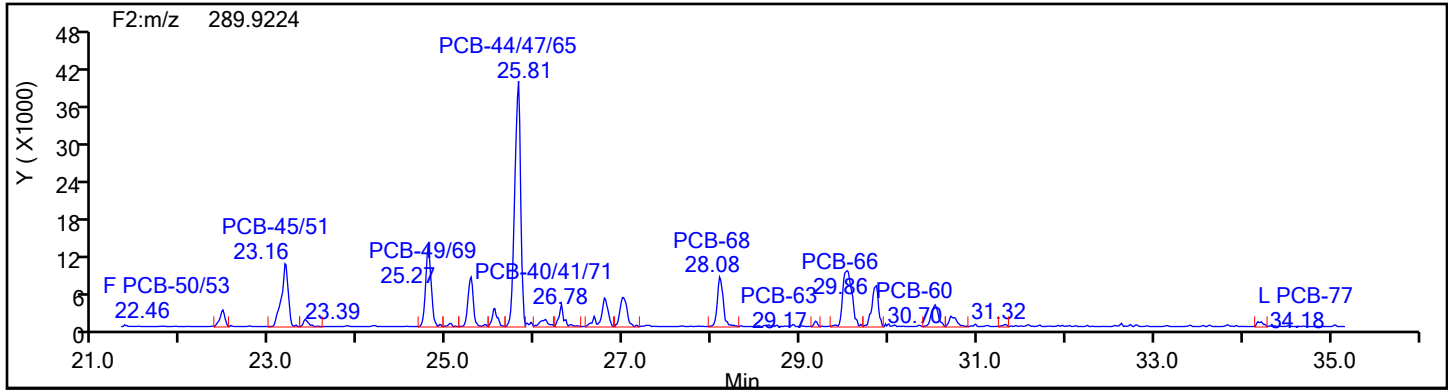
Reviewer: V4XA, 17-Jul-2024 01:07:54 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

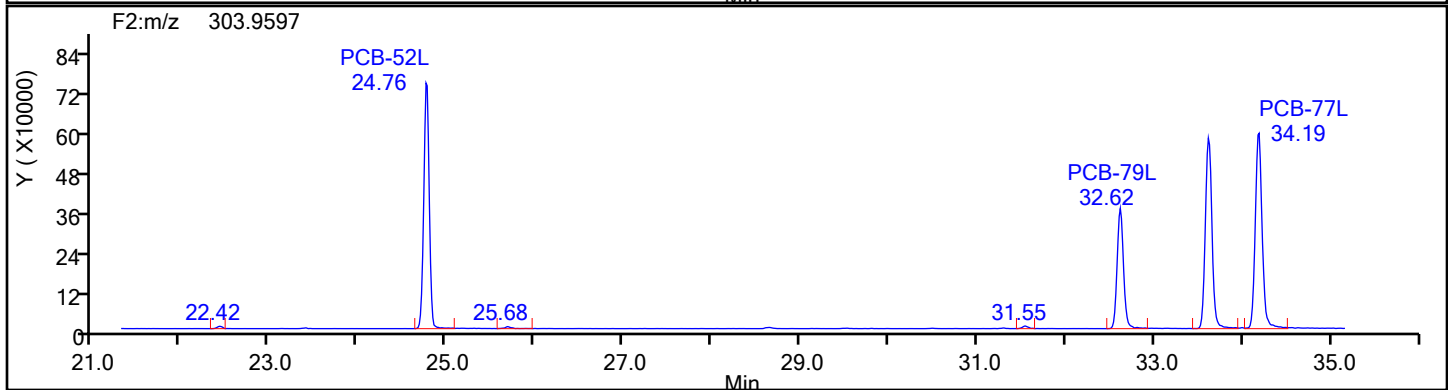
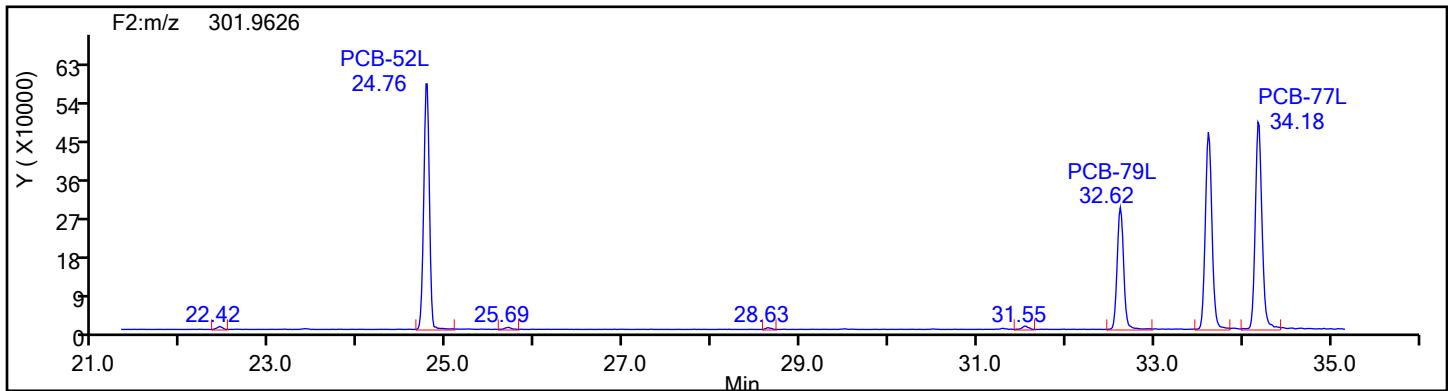
Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

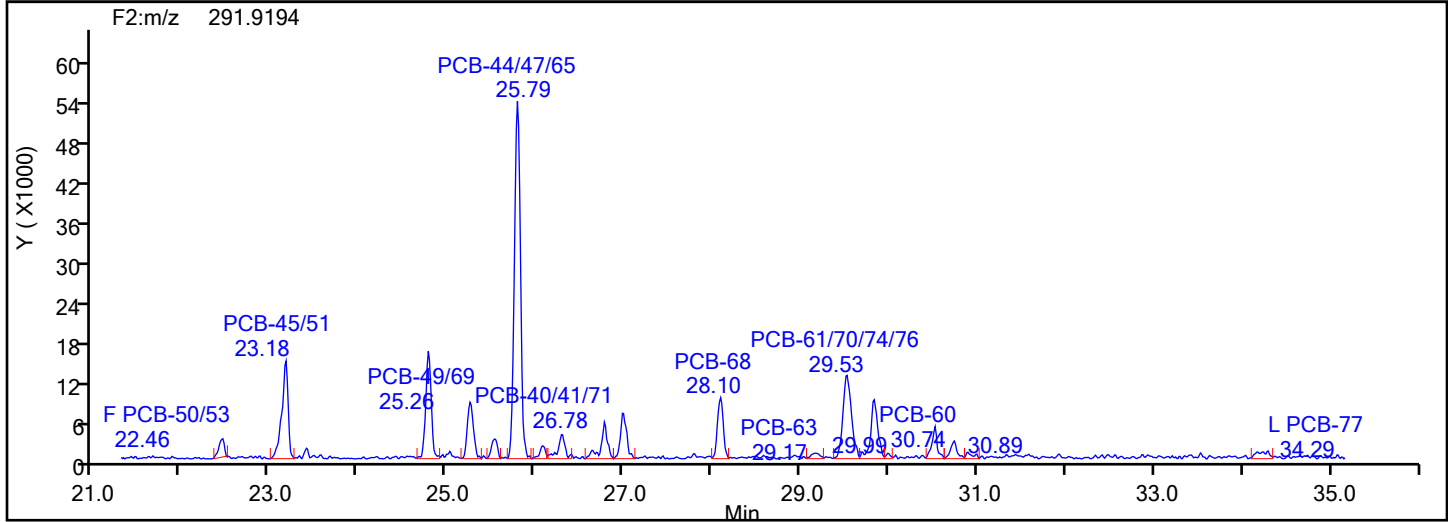
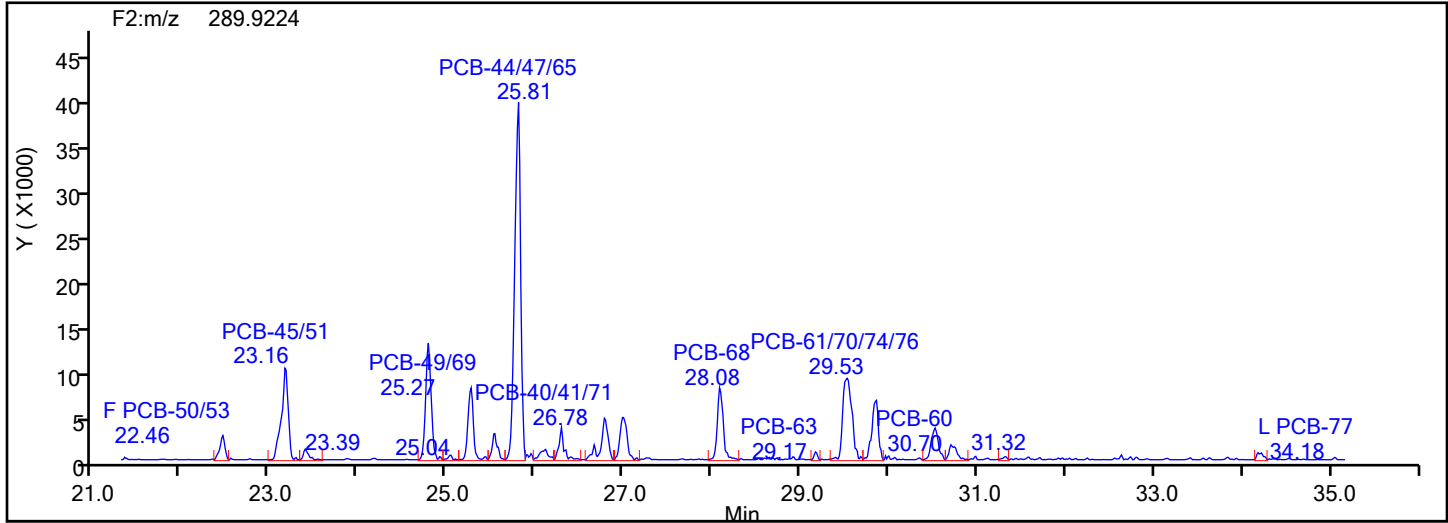


TePCB F2 Standards

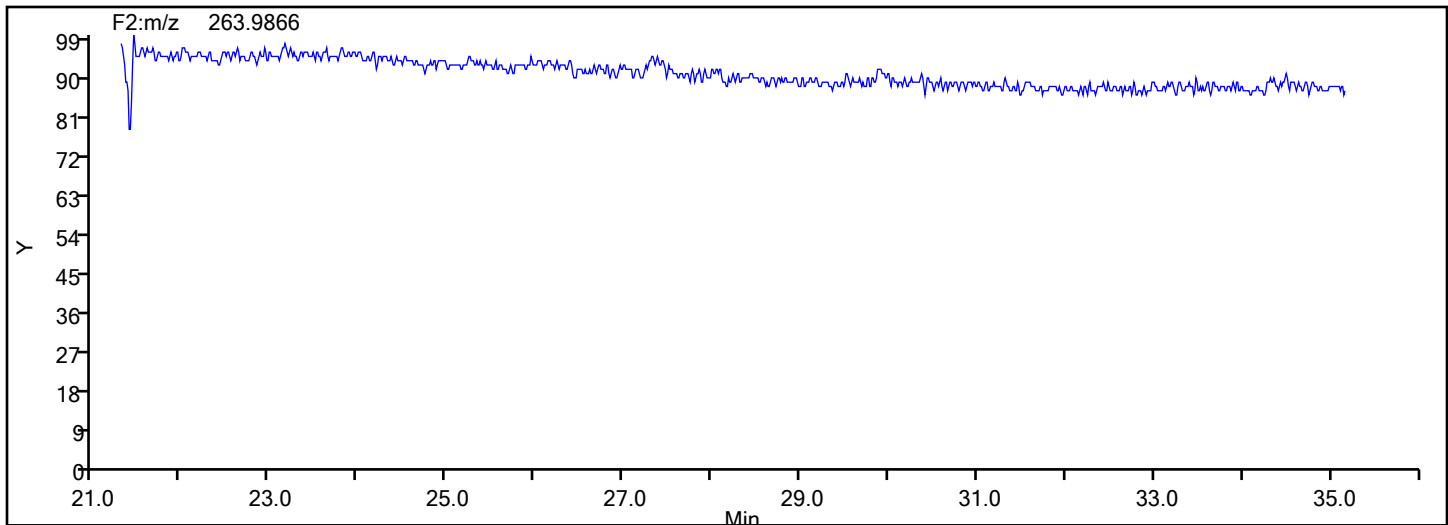


Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

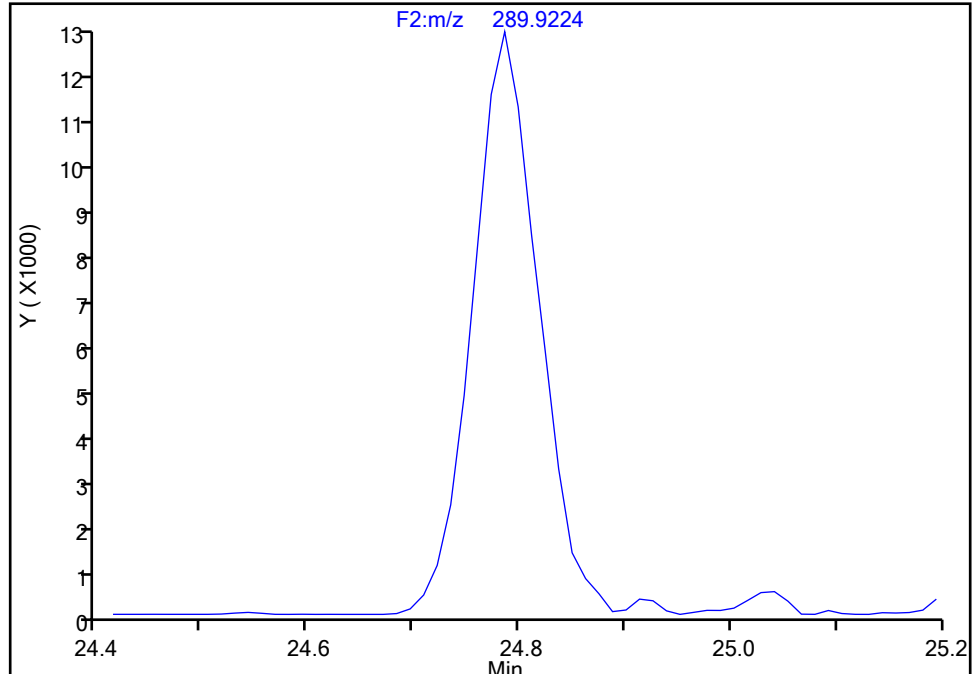
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

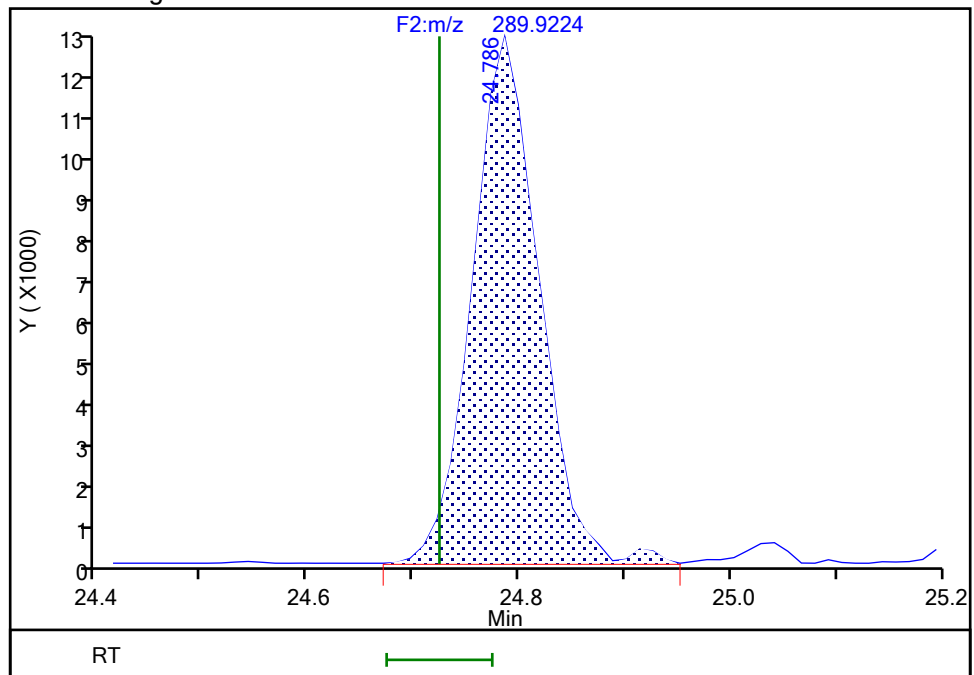
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.79
Area: 56517
Amount: 2.394763
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:08:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

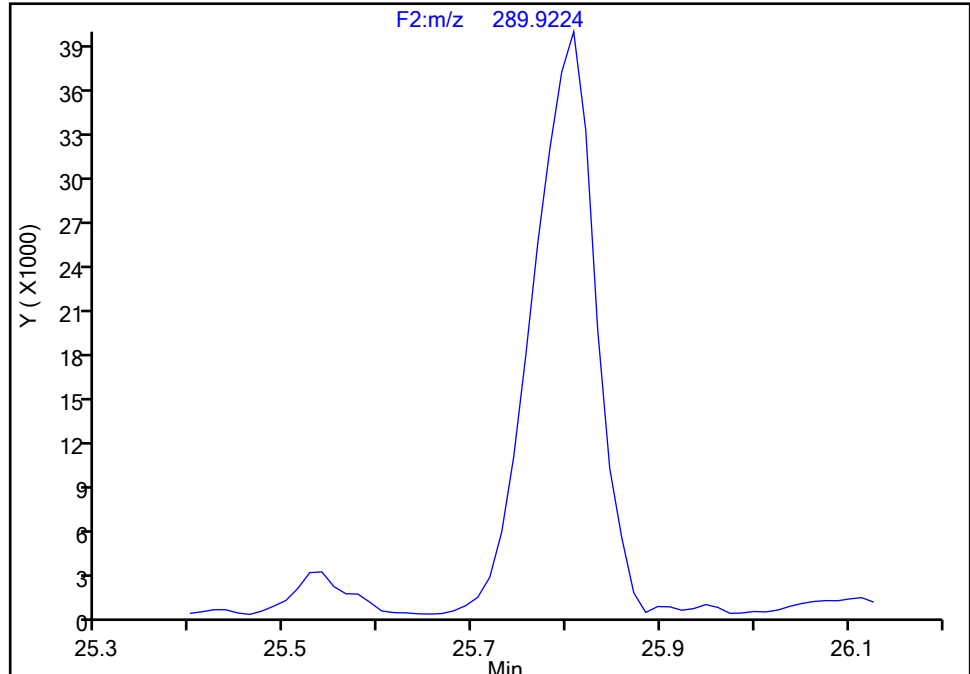
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

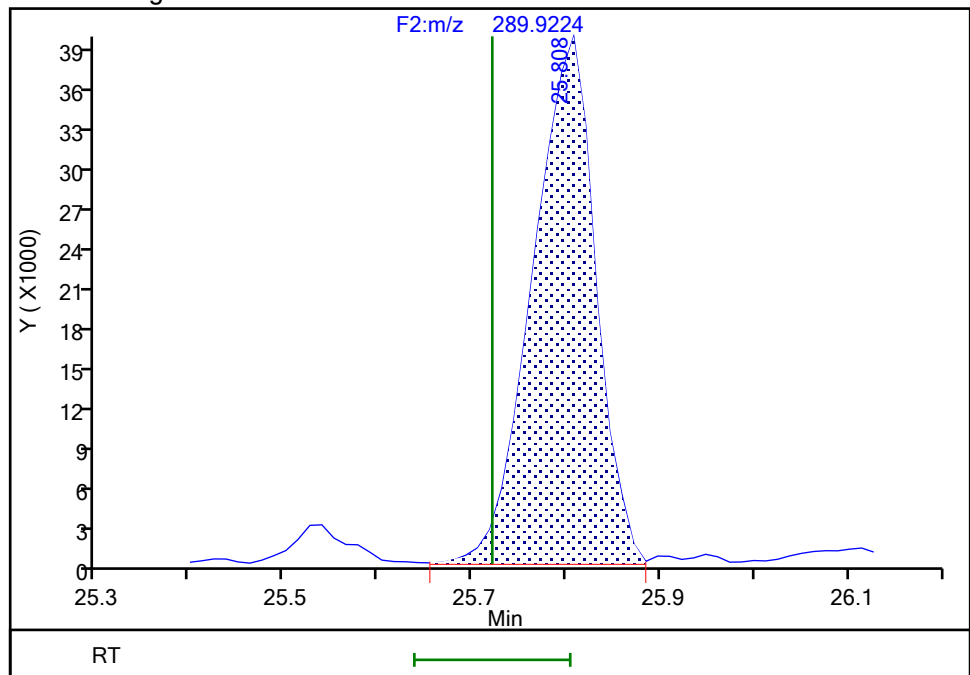
Not Detected
Expected RT: 25.72

Processing Integration Results



RT: 25.81
Area: 184484
Amount: 8.050459
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:08:35 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

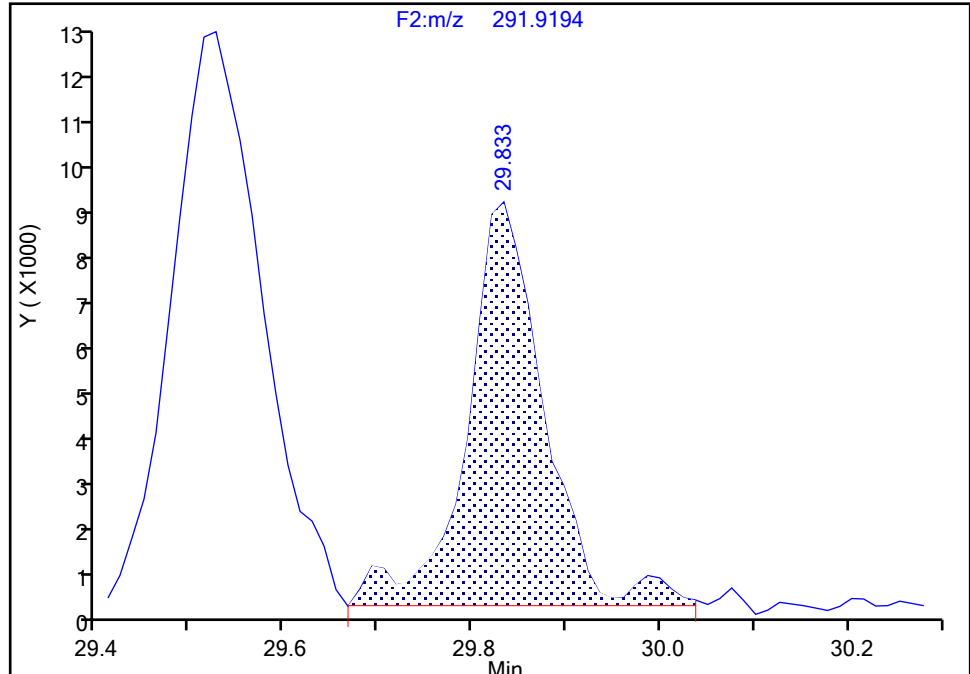
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-66, CAS: 32598-10-0

Signal: 2

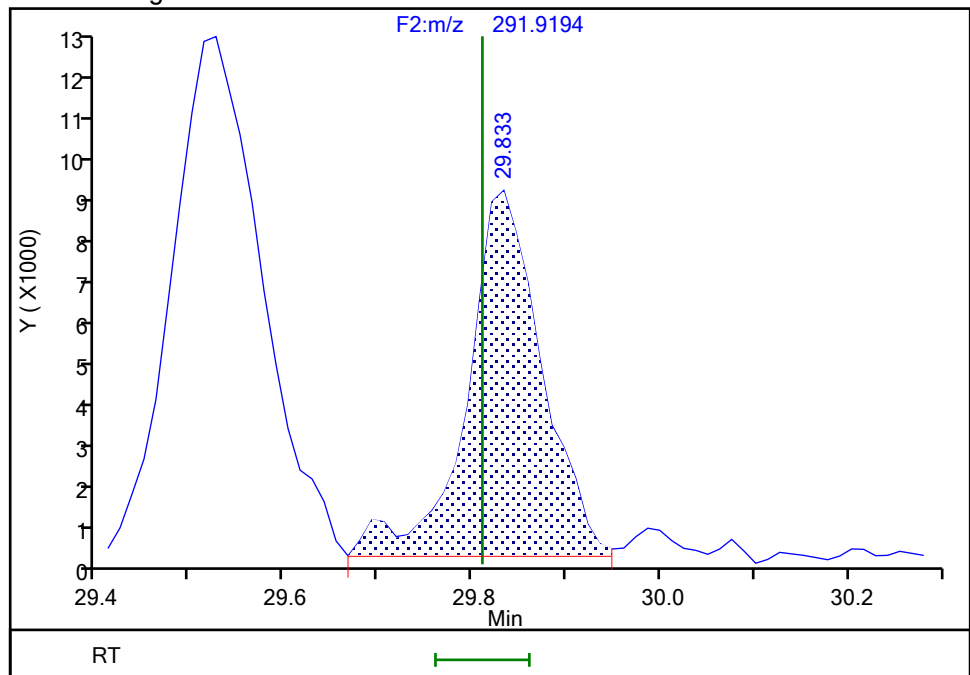
RT: 29.83
Area: 50266
Amount: 1.185790
Amount Units: pg/ul

Processing Integration Results



RT: 29.83
Area: 48306
Amount: 1.158159
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:09:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

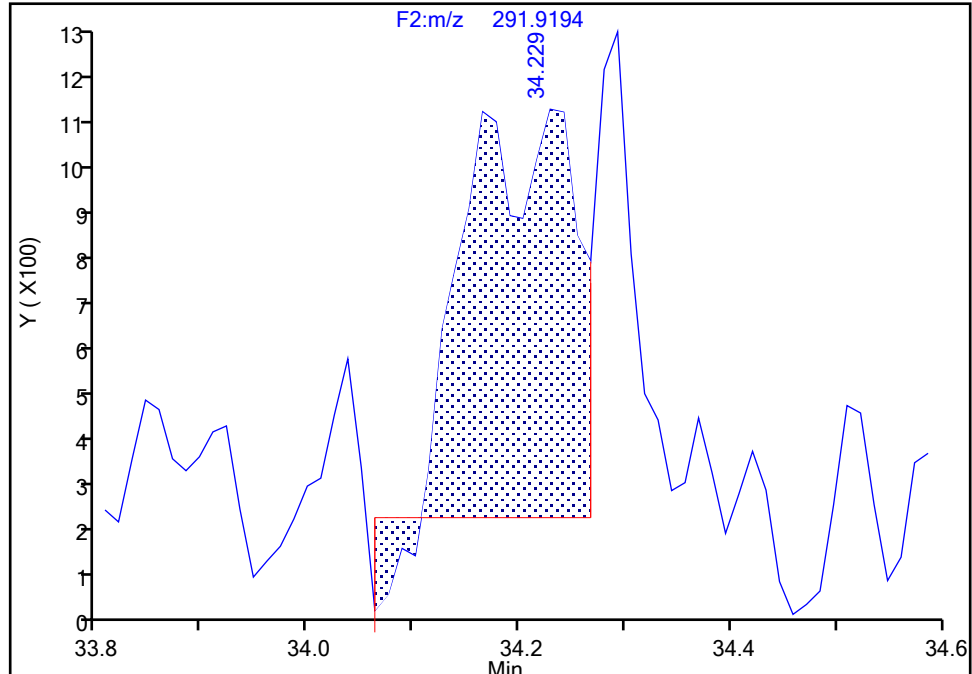
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

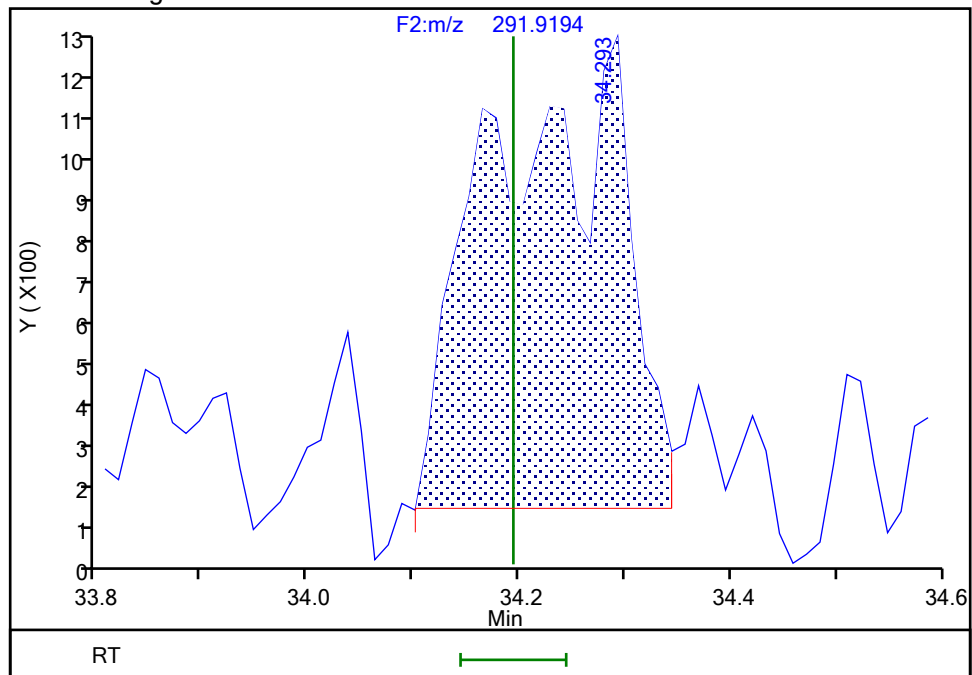
RT: 34.23
Area: 5537
Amount: 0.145664
Amount Units: pg/ul

Processing Integration Results



RT: 34.29
Area: 9272
Amount: 0.204909
Amount Units: pg/ul

Manual Integration Results



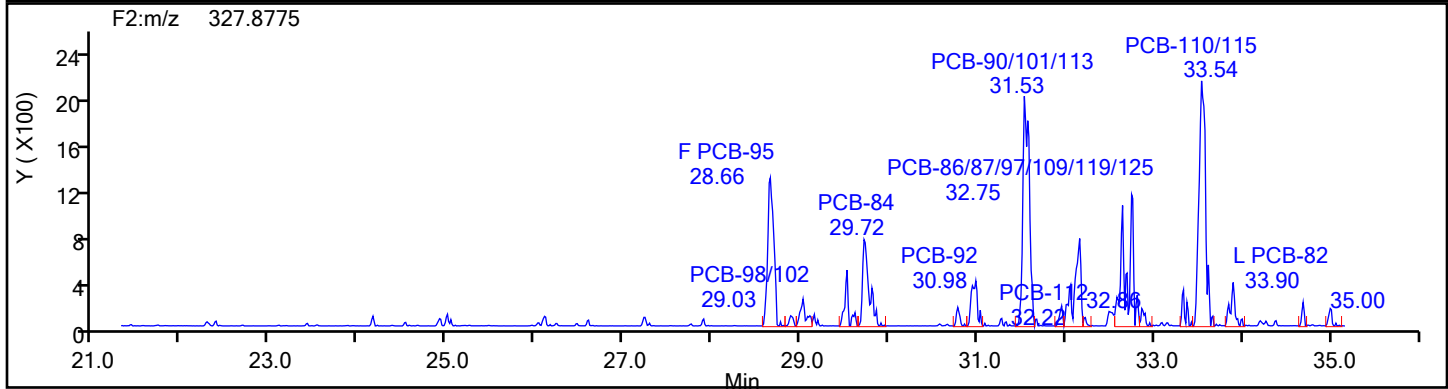
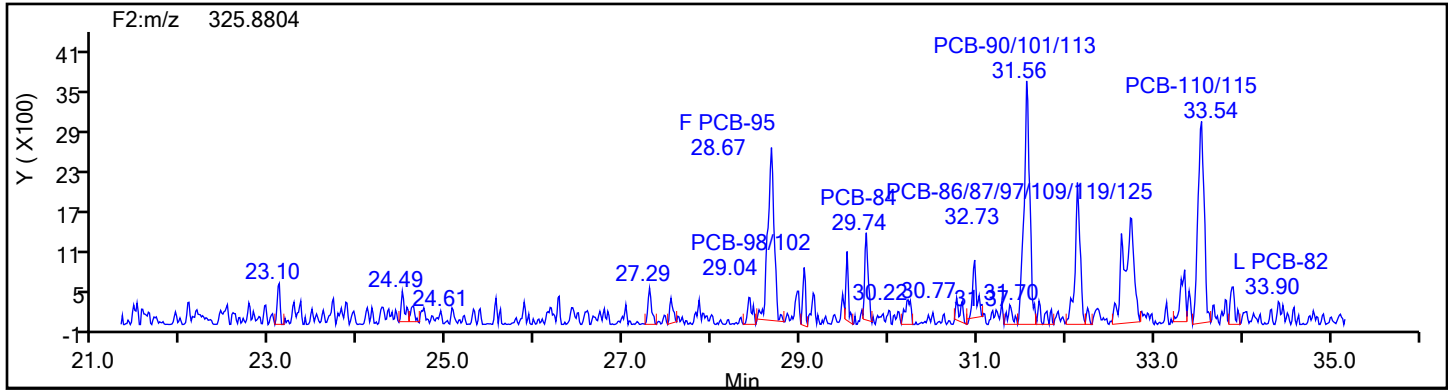
Reviewer: V4XA, 17-Jul-2024 01:09:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

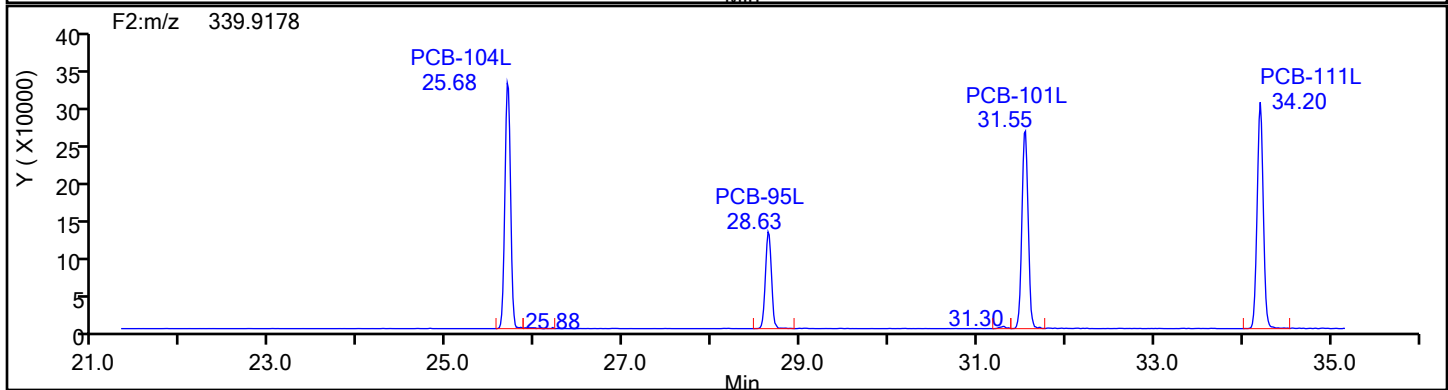
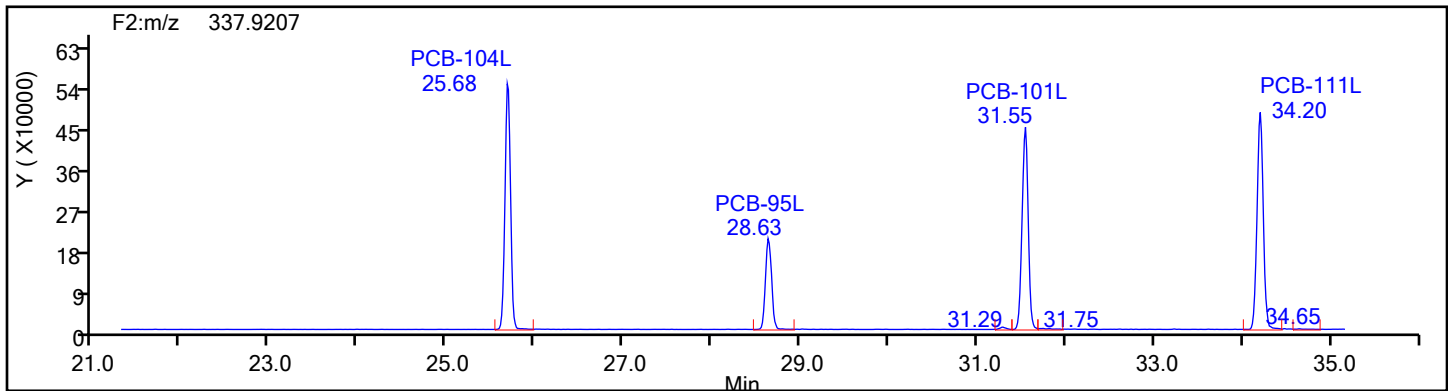
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

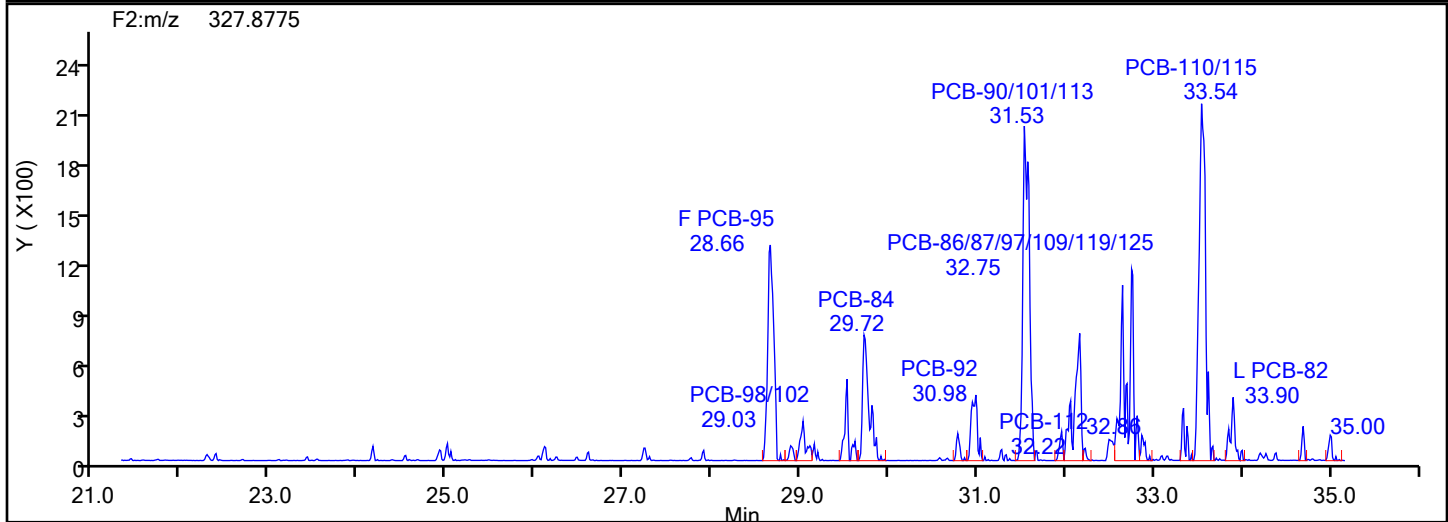
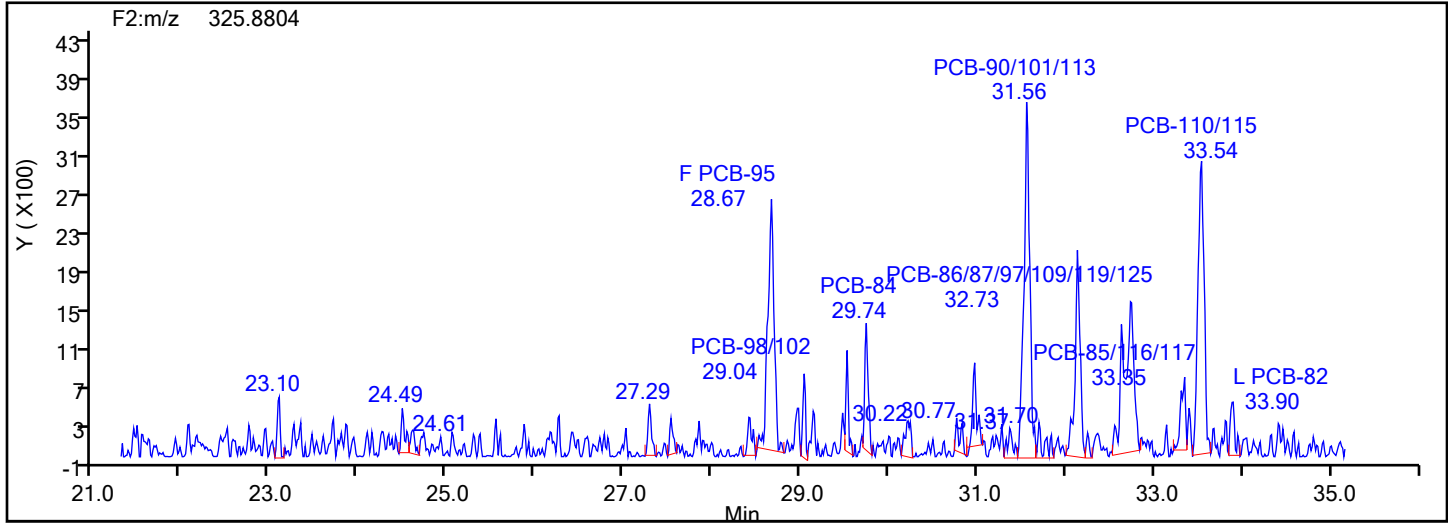


PePCB F2 Standards

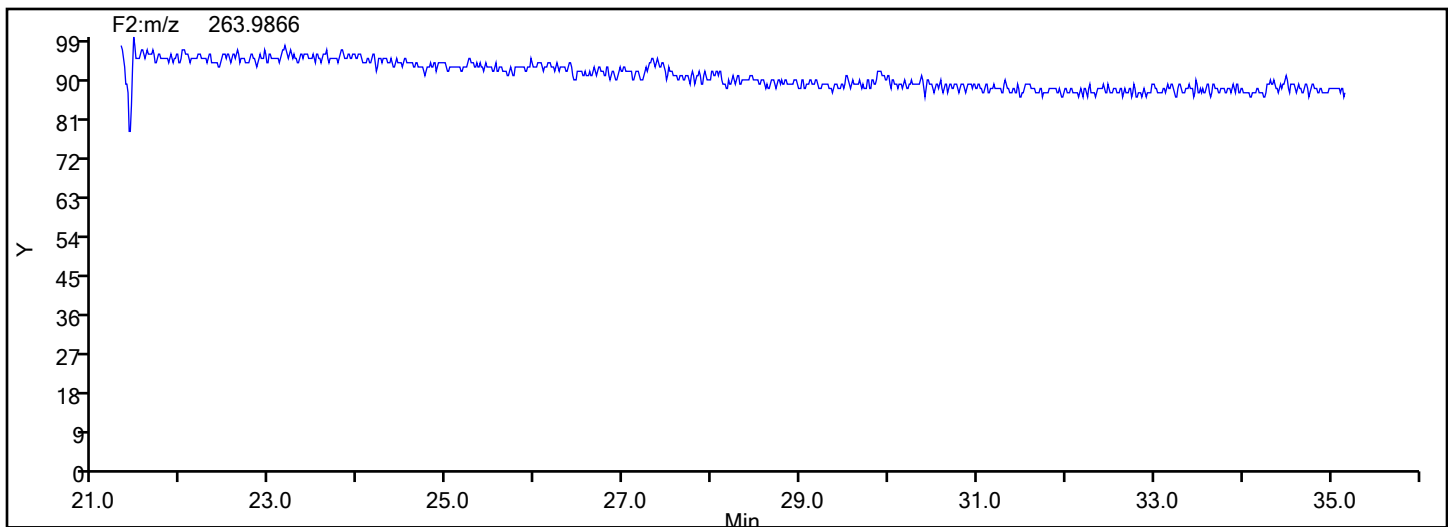


Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

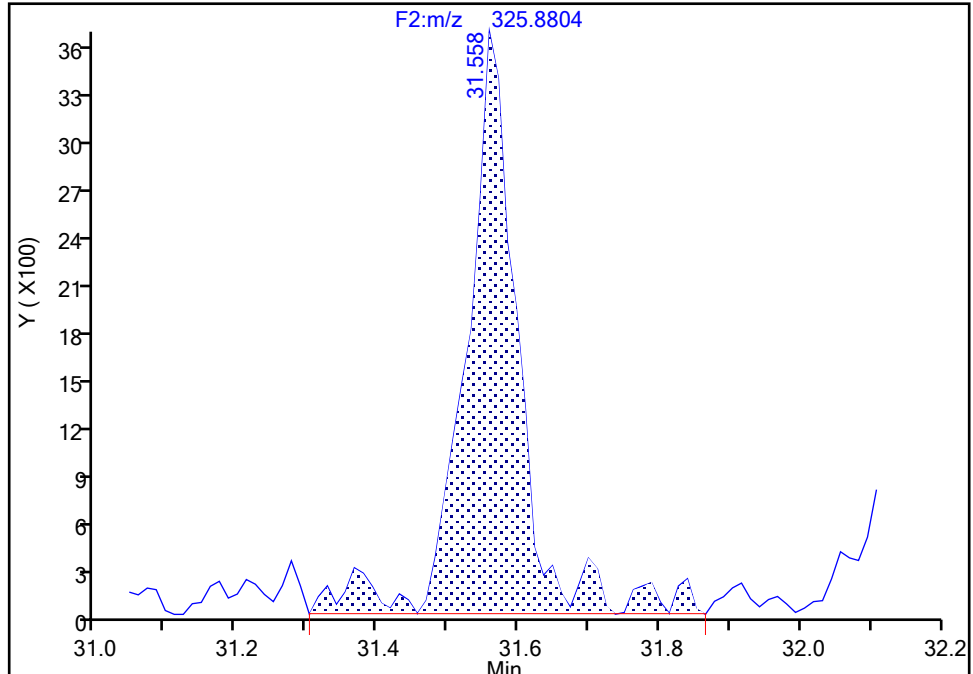
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

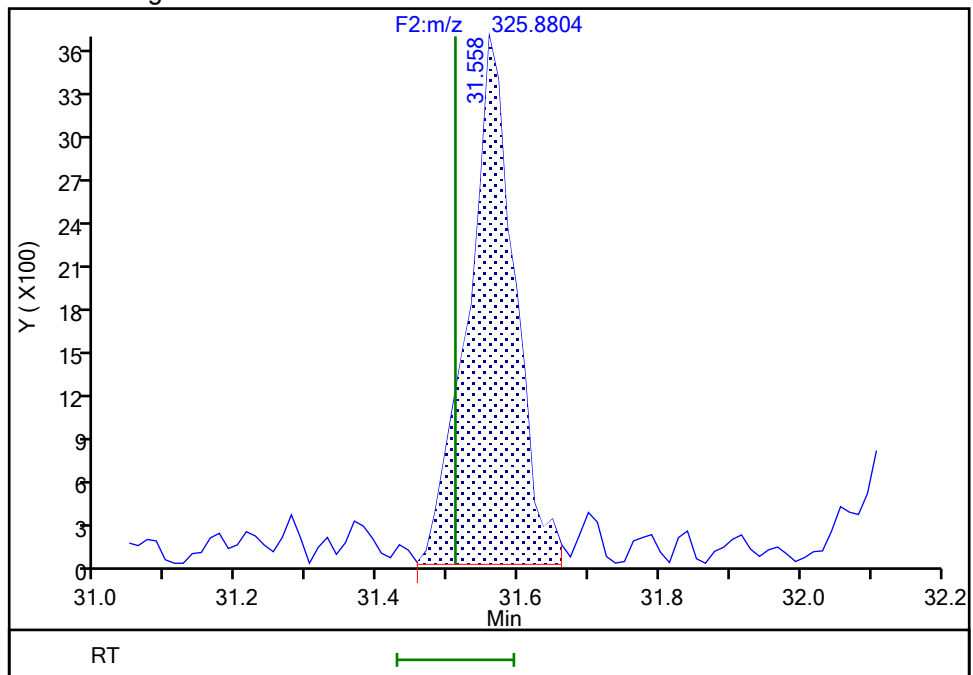
RT: 31.56
Area: 19222
Amount: 0.796707
Amount Units: pg/ul

Processing Integration Results



RT: 31.56
Area: 16498
Amount: 0.722847
Amount Units: pg/ul

Manual Integration Results



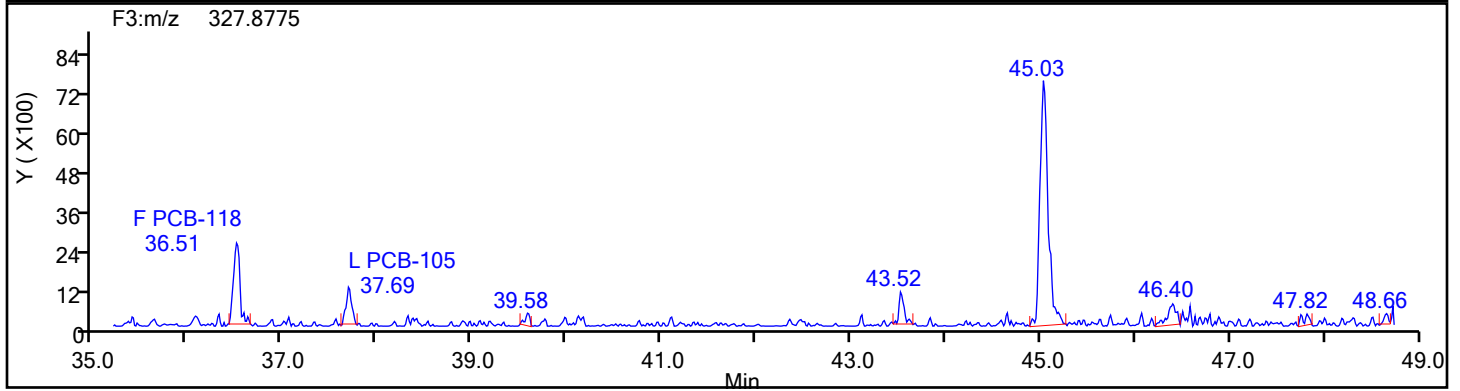
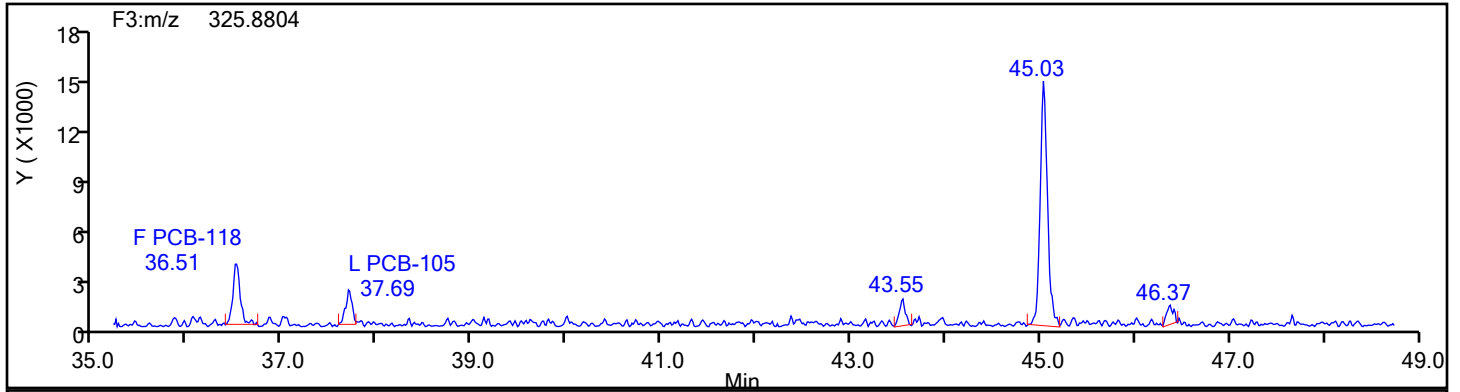
Reviewer: V4XA, 17-Jul-2024 01:10:30 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

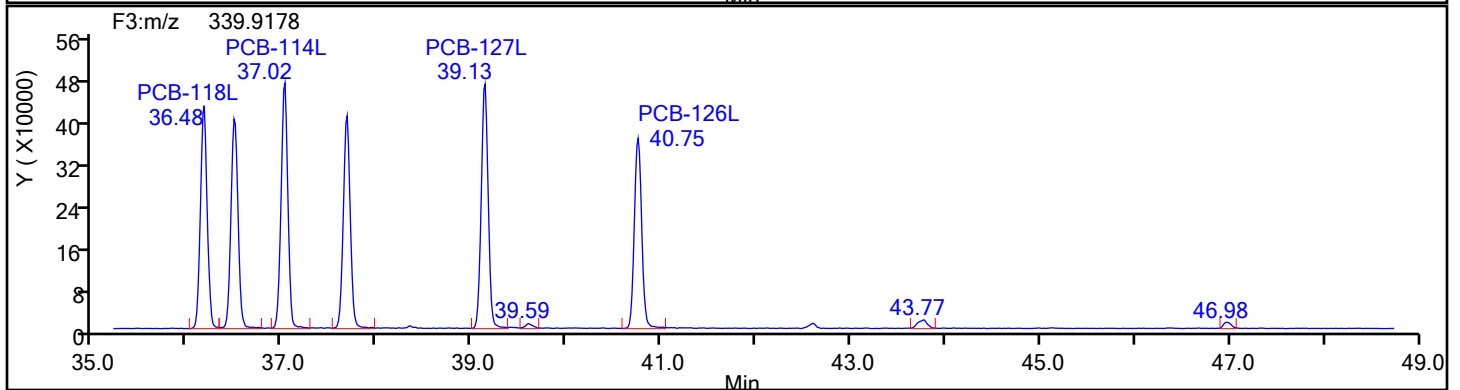
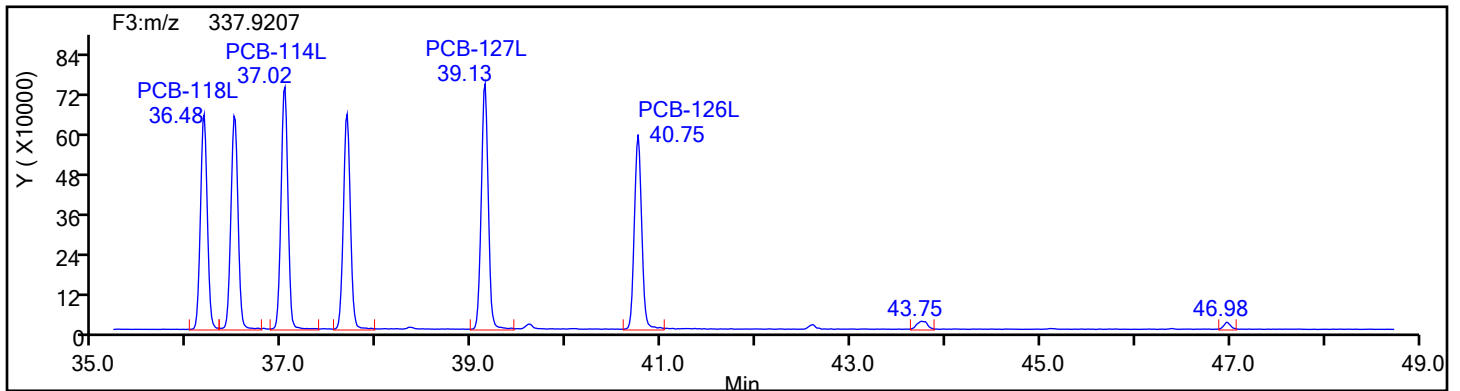
Audit Reason: Split Peak

Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

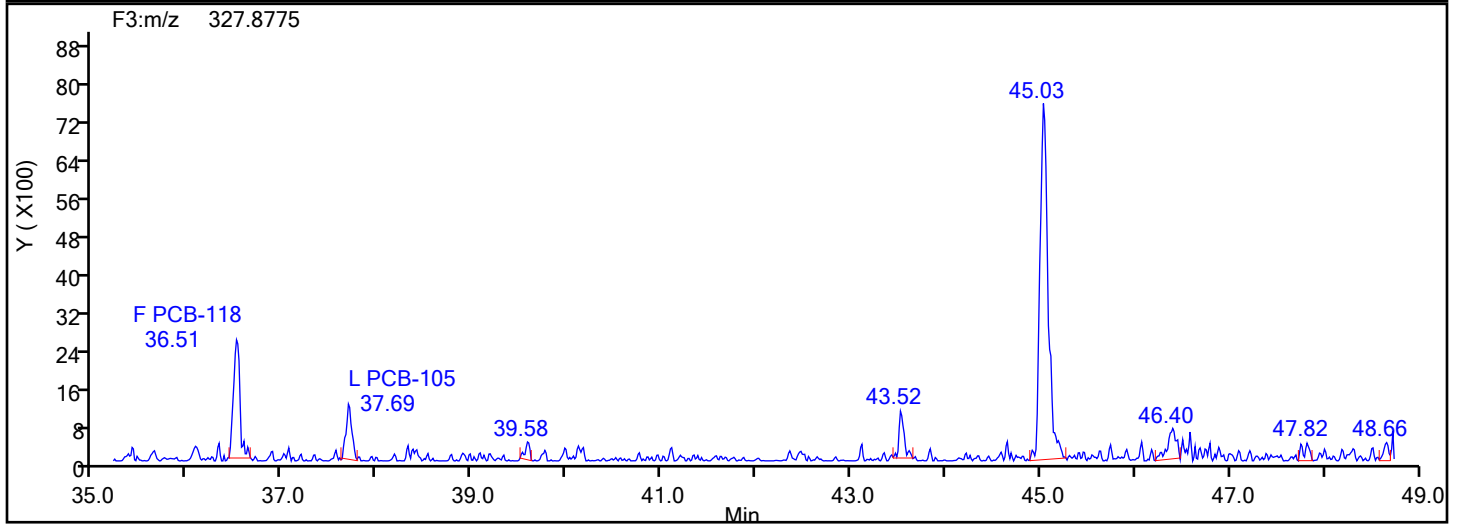
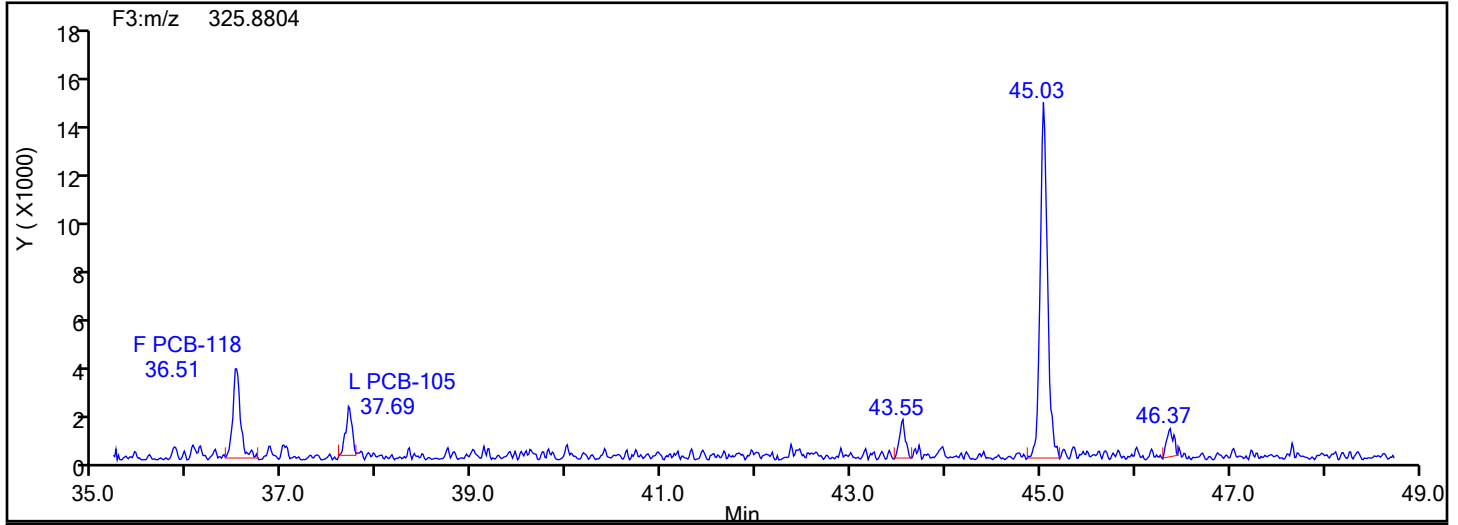


PePCB F3 Standards

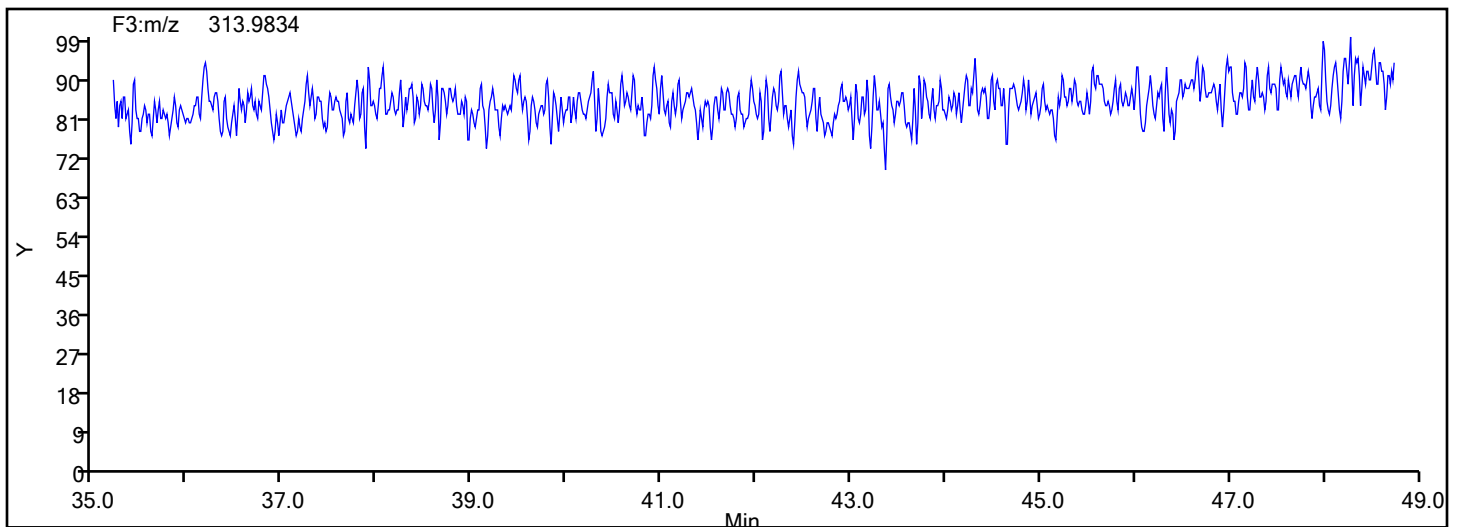


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

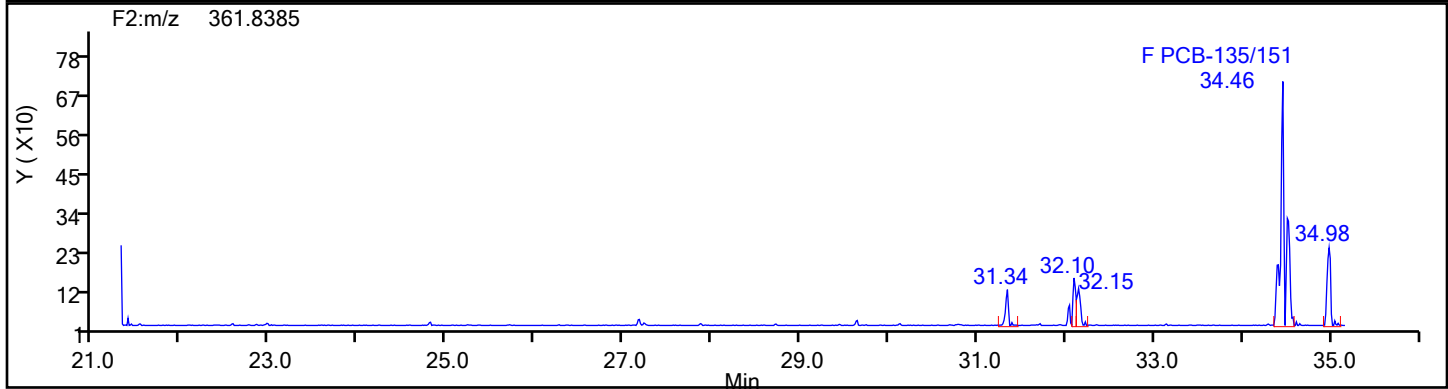
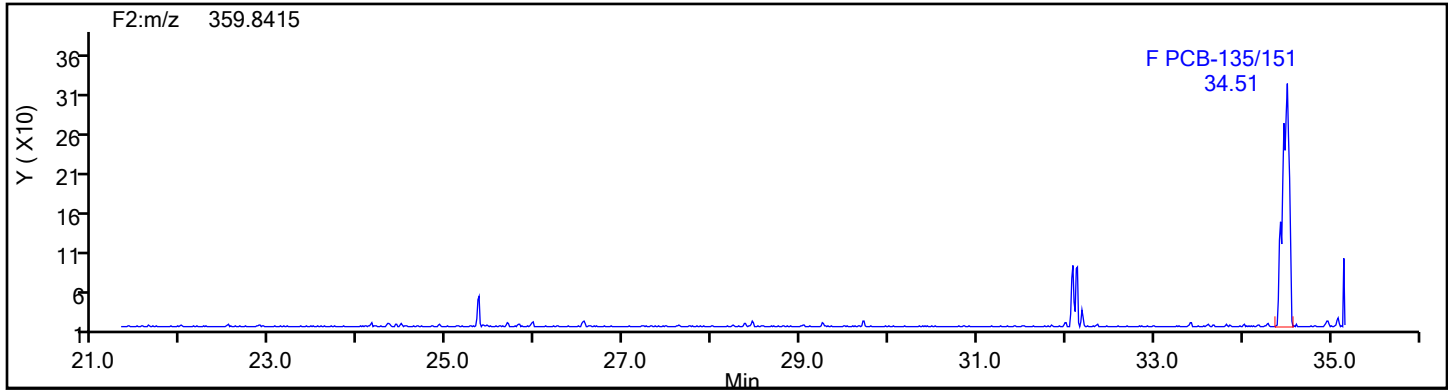


PePCB F3 Lock Mass

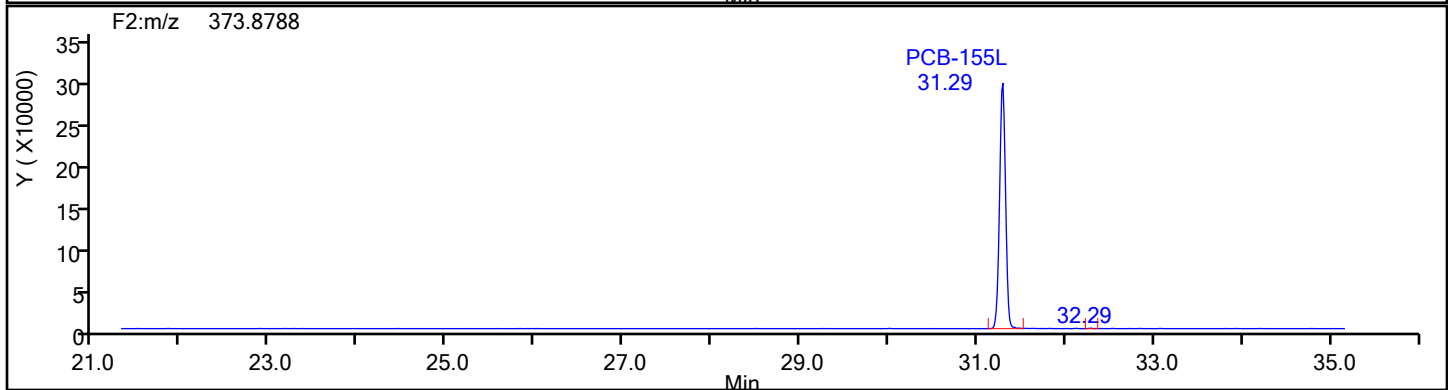
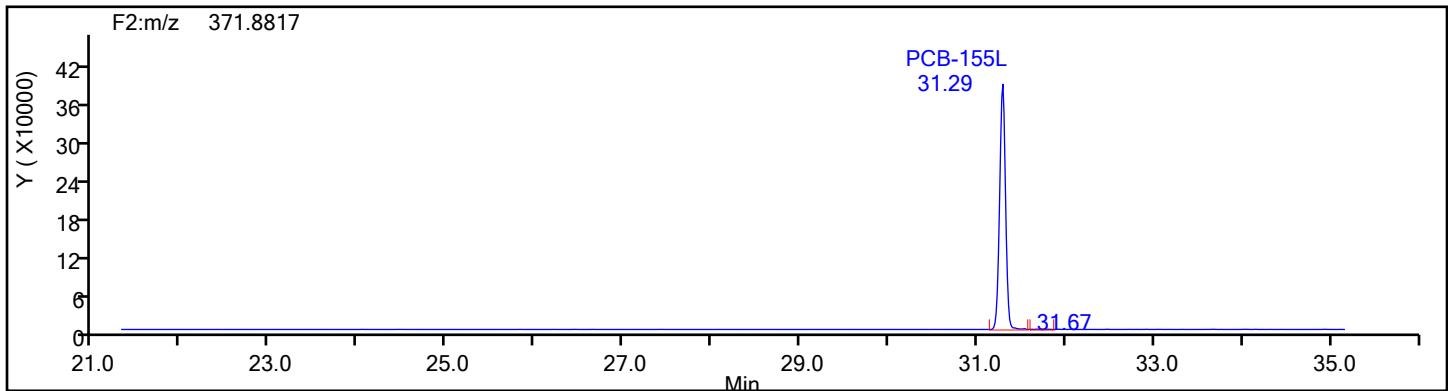


Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

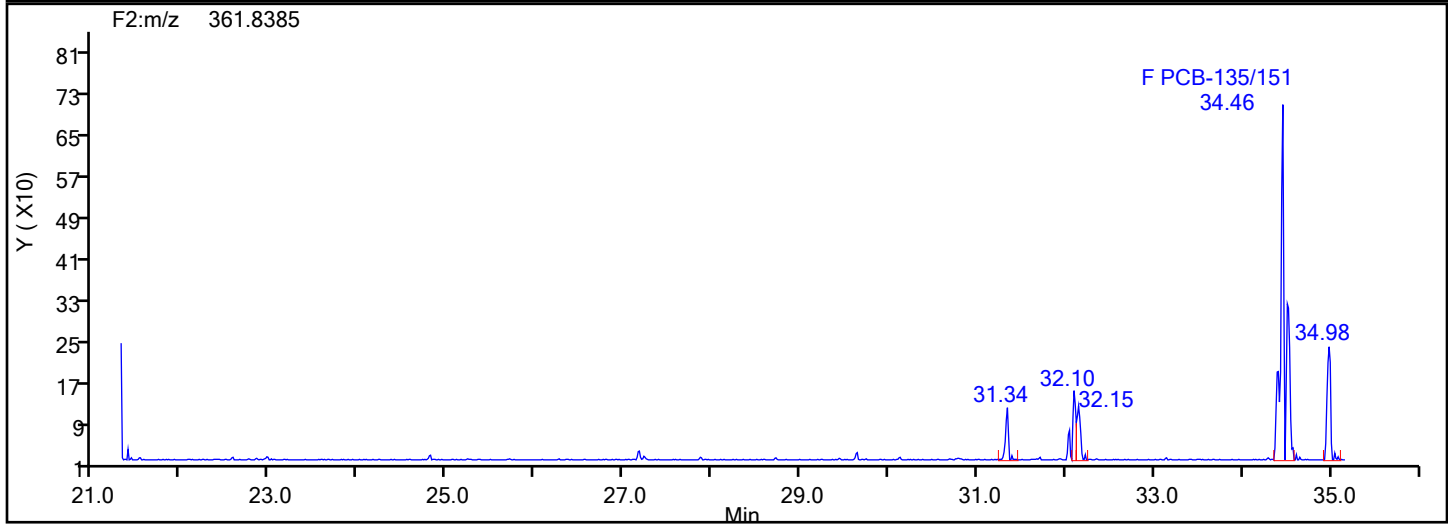
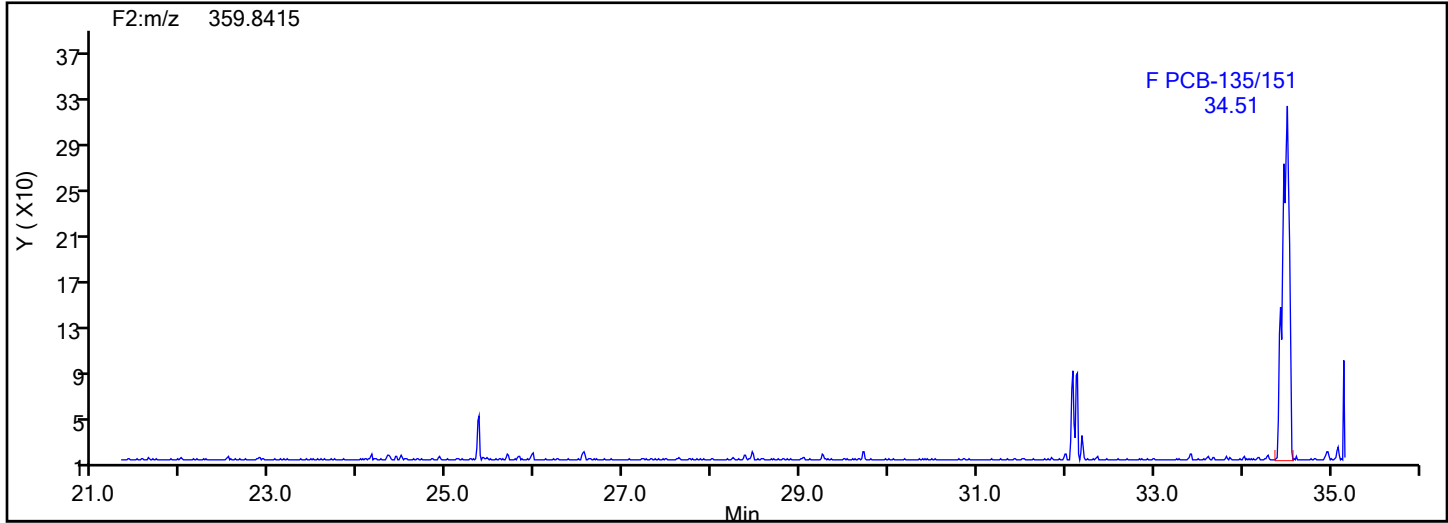


HxPCB F2 Standards

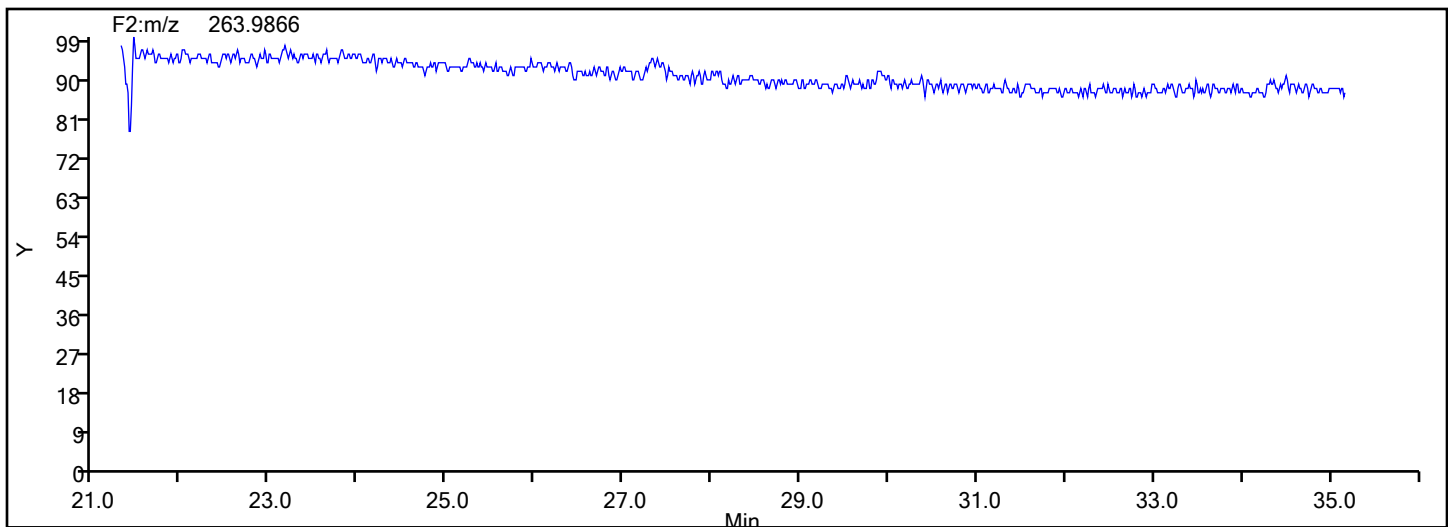


Eurofins Knoxville

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Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

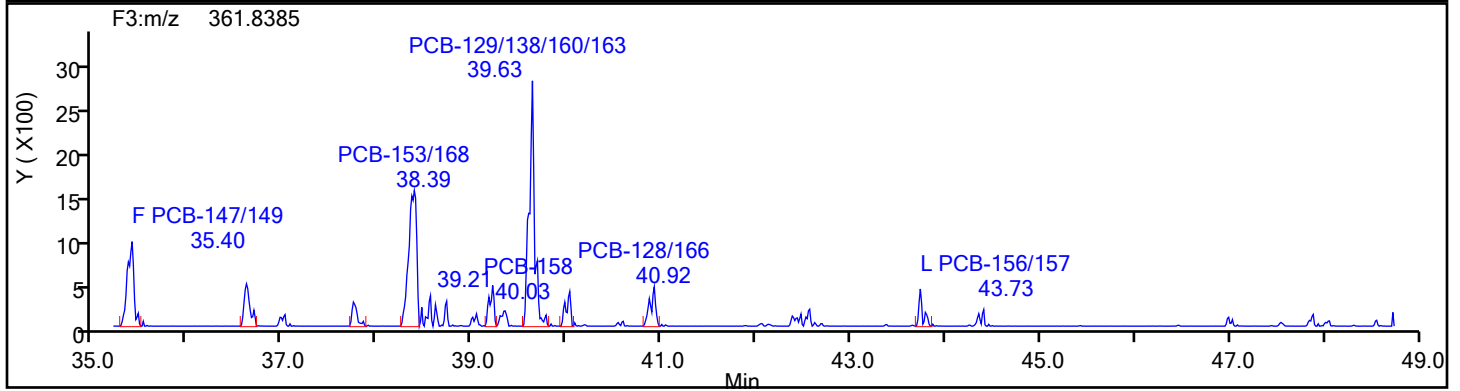
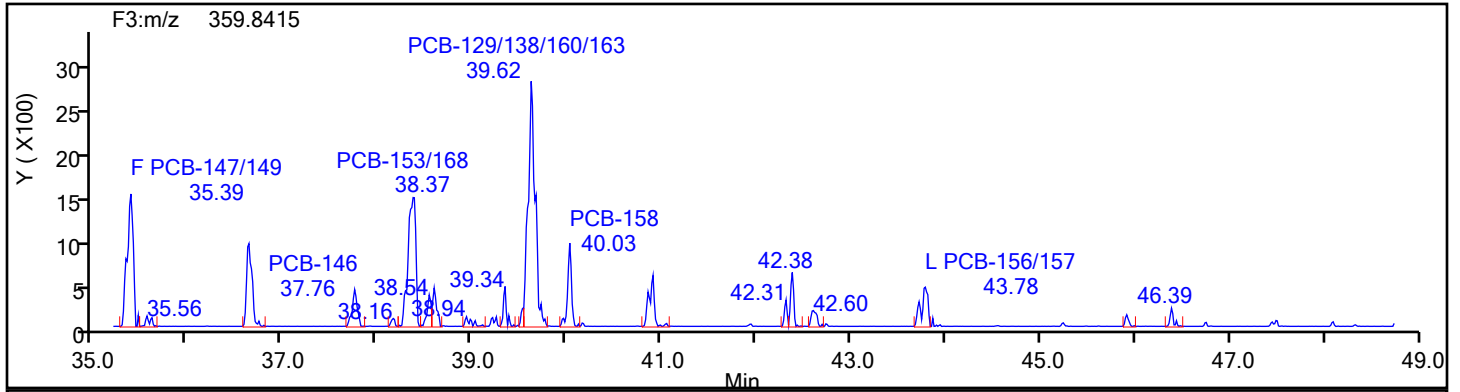


HxPCB F2 Lock Mass

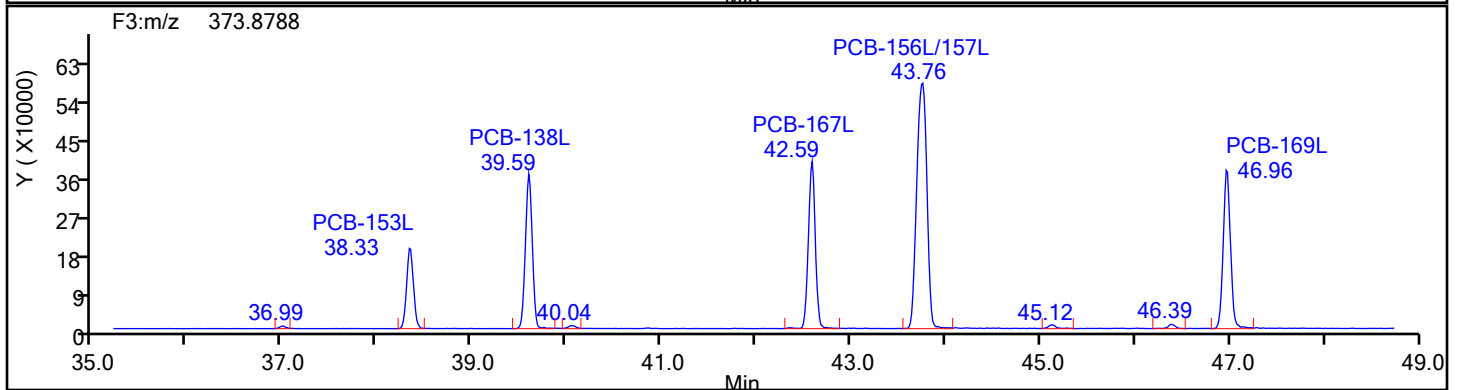
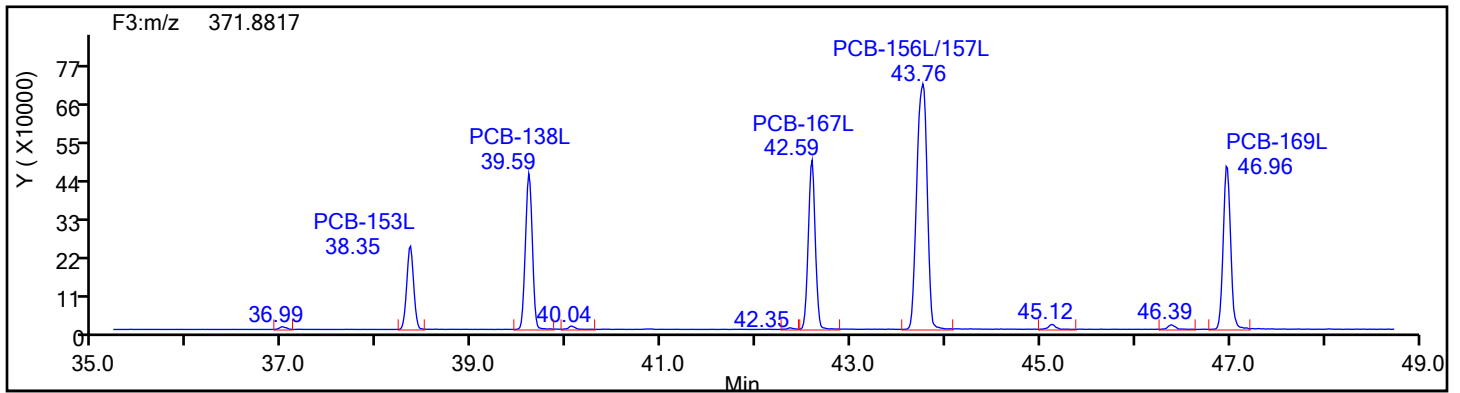


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

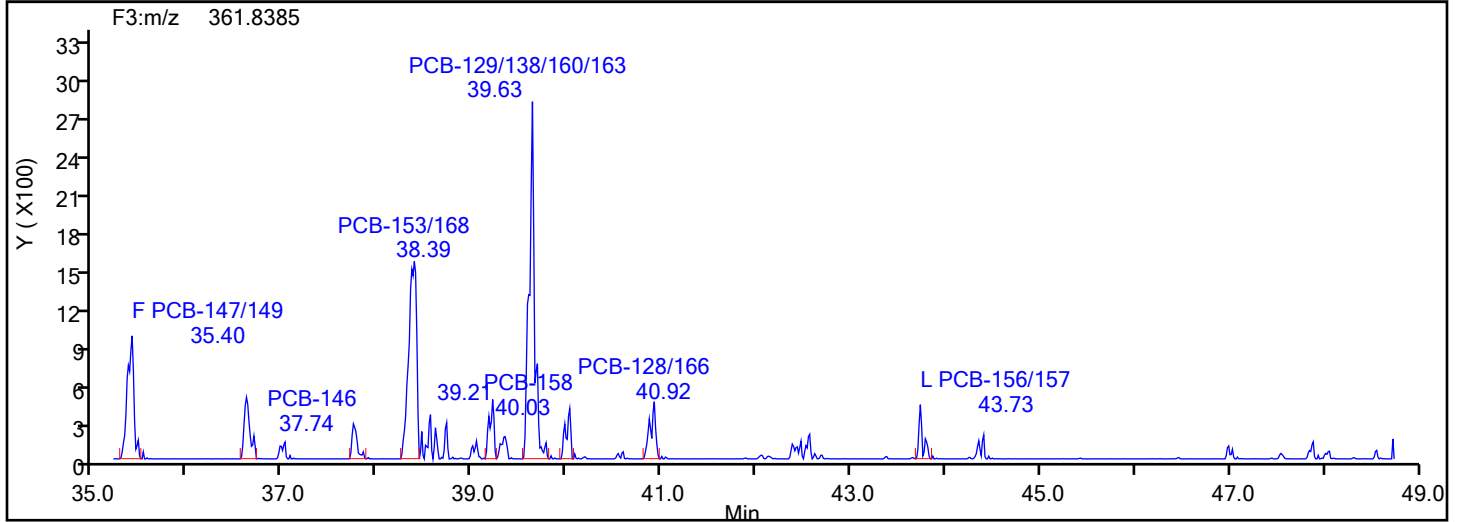
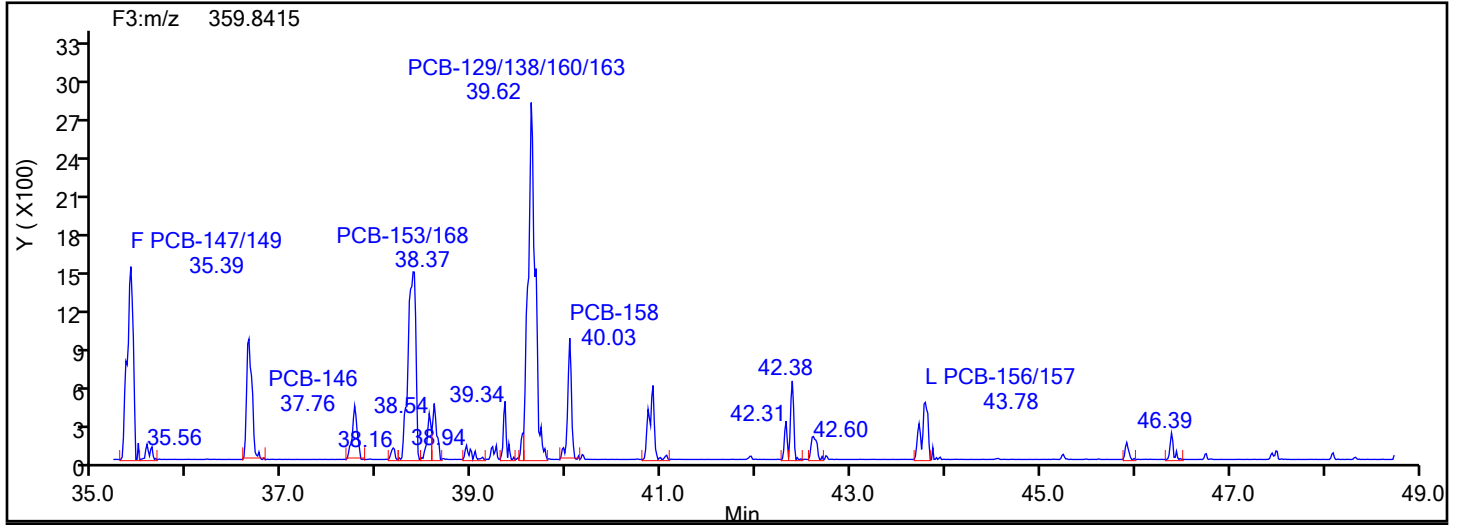


HxPCB F3 Standards

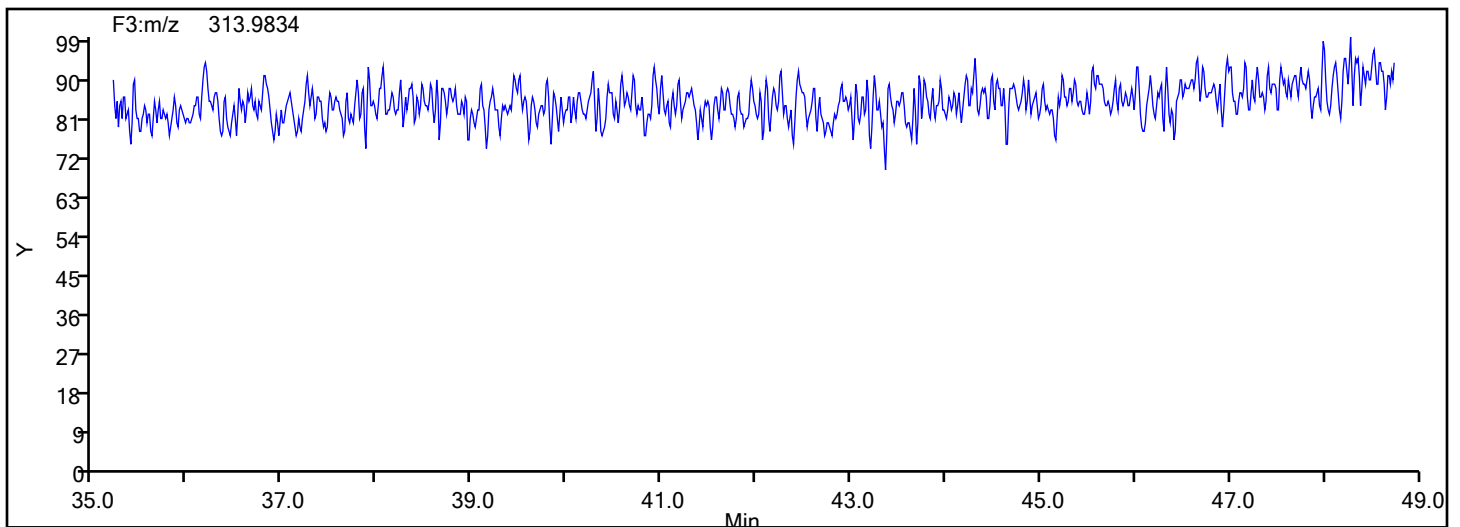


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
Injection Date: 16-Jul-2024 09:03:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

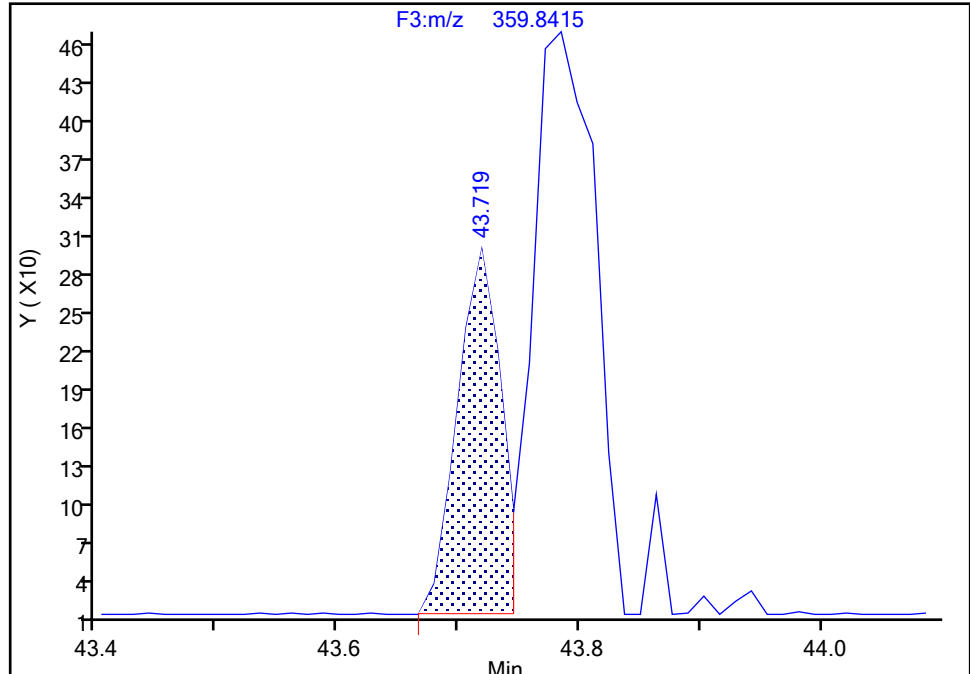
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-156/157, CAS: STL01792

Signal: 1

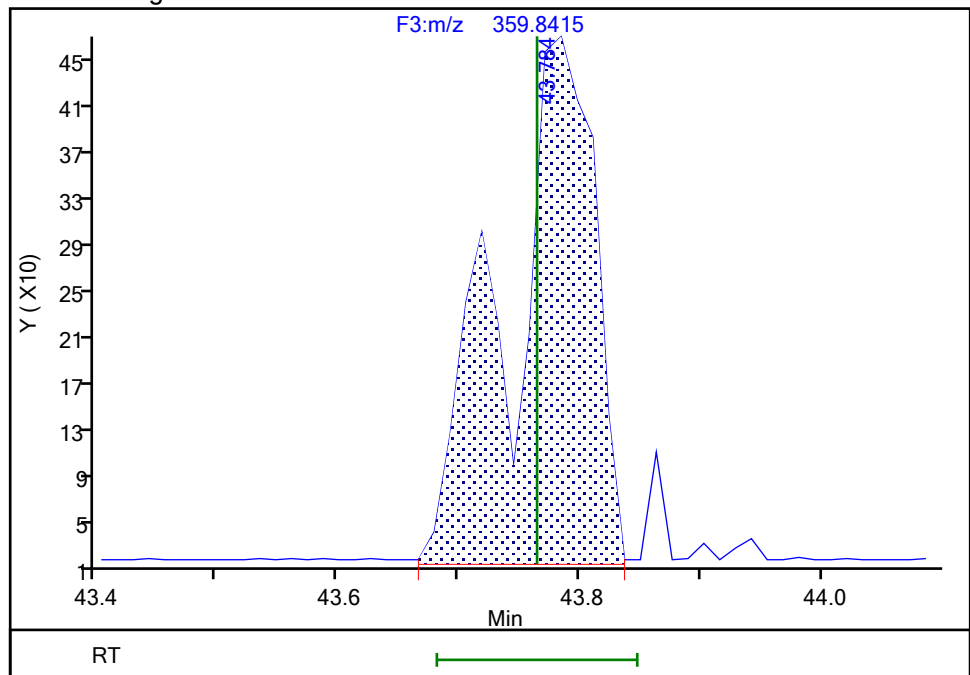
RT: 43.72
Area: 688
Amount: 0.034430
Amount Units: pg/ul

Processing Integration Results



RT: 43.78
Area: 2288
Amount: 0.063826
Amount Units: pg/ul

Manual Integration Results



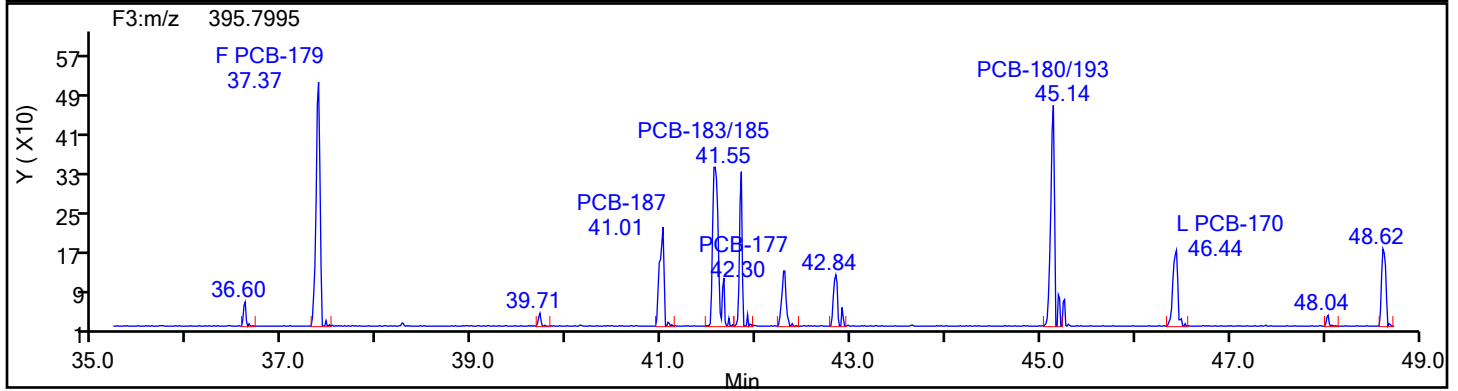
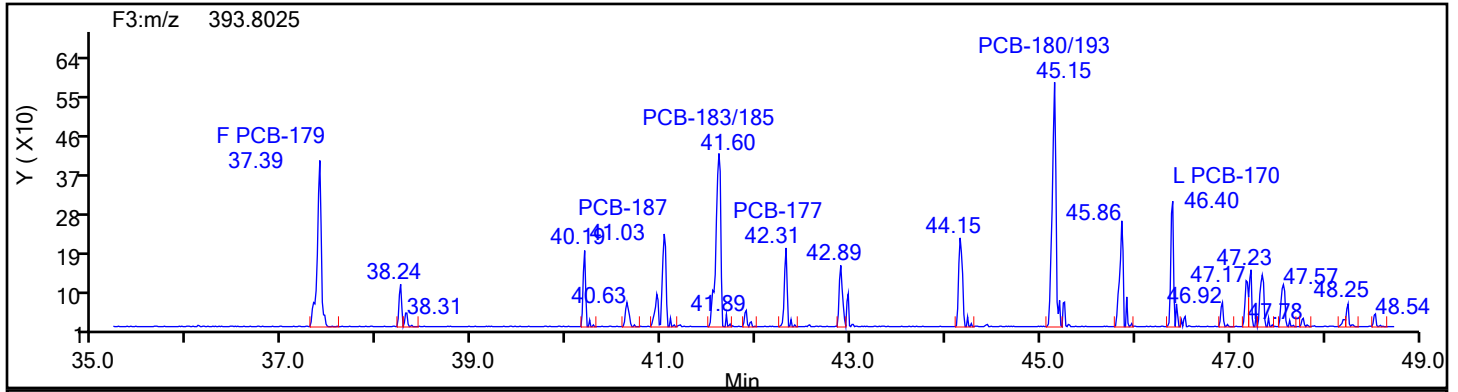
Reviewer: V4XA, 17-Jul-2024 01:12:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

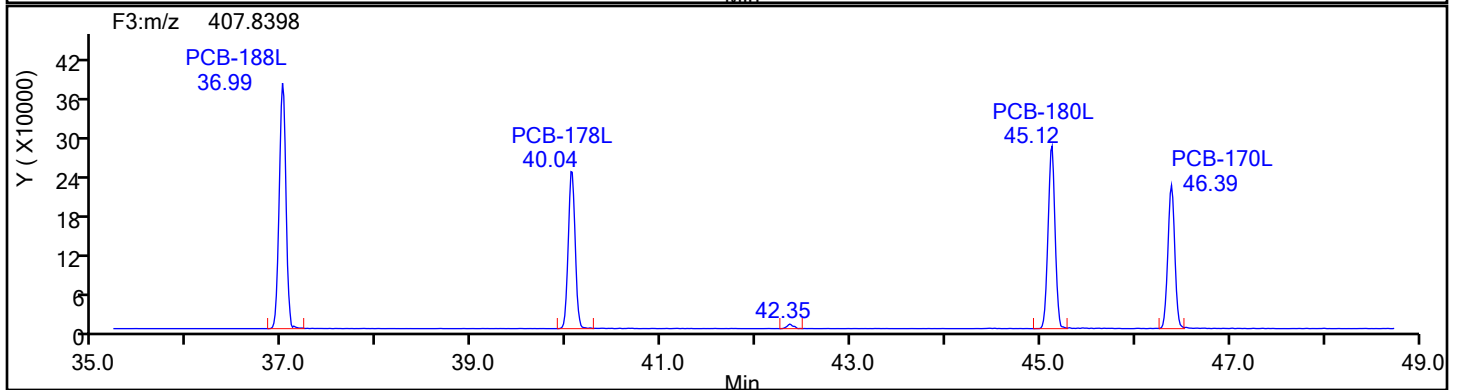
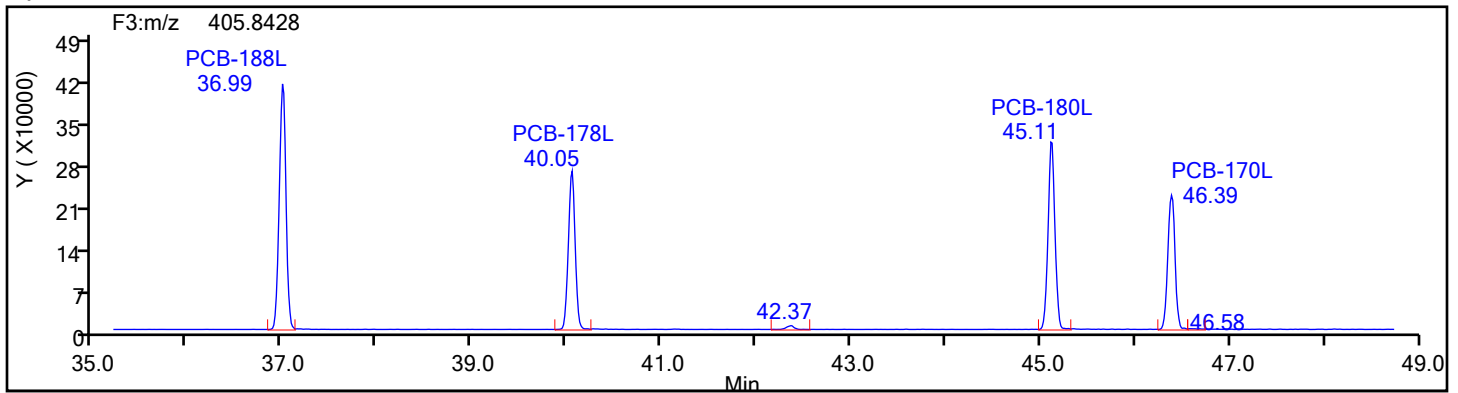
Audit Reason: Baseline

Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

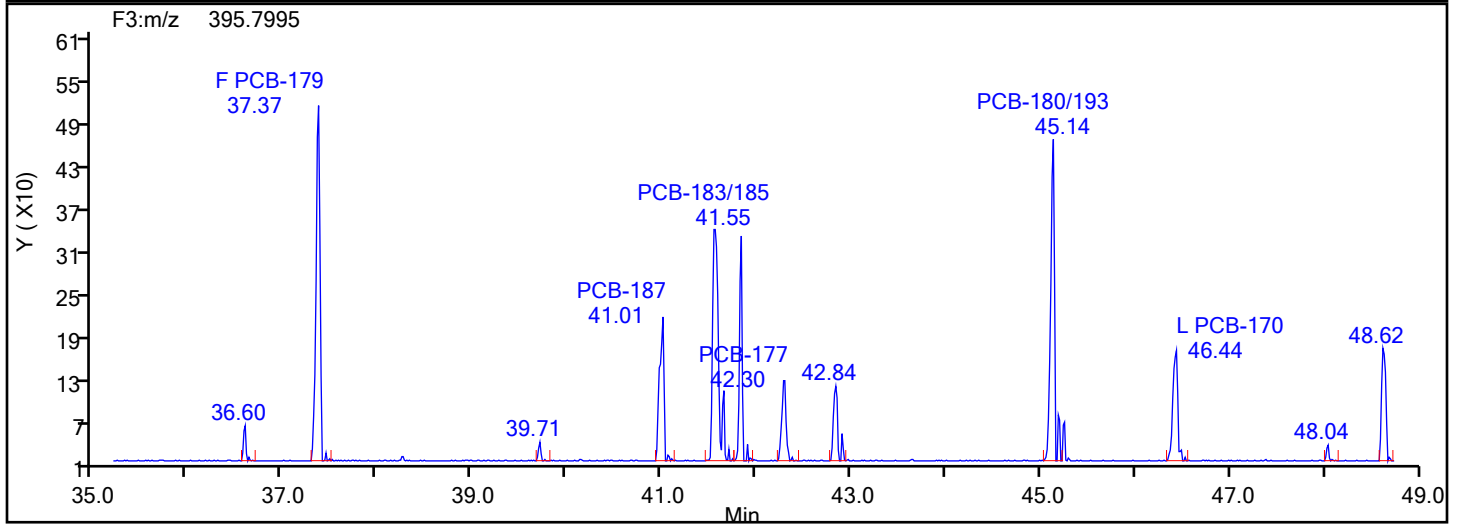
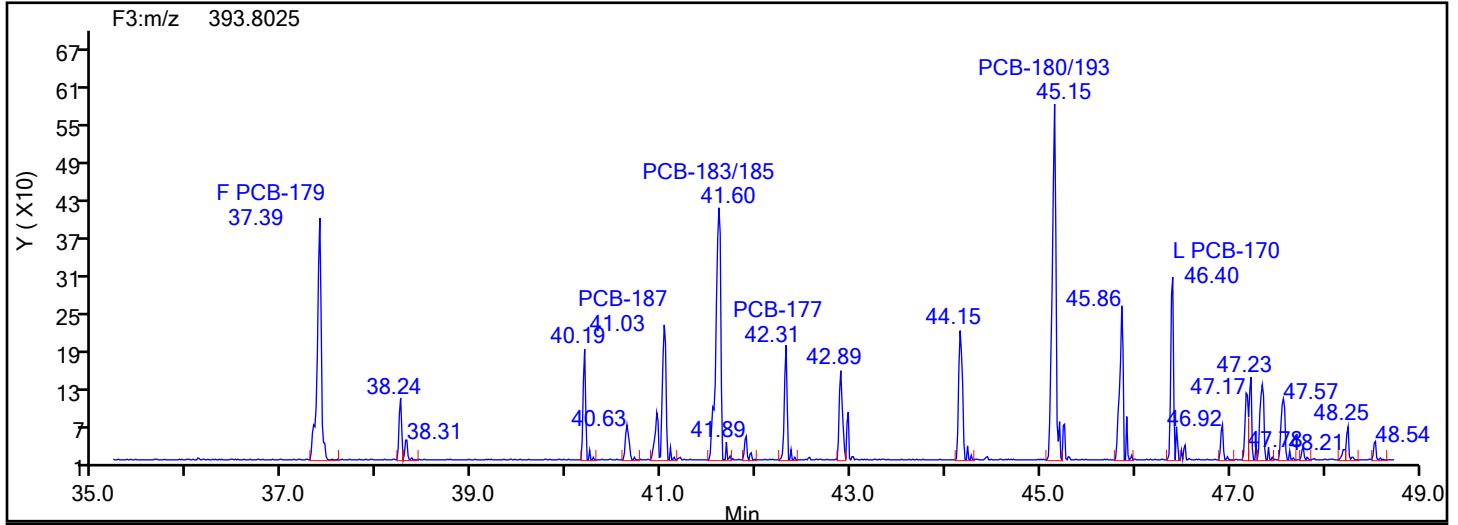


HpPCB F3 Standards

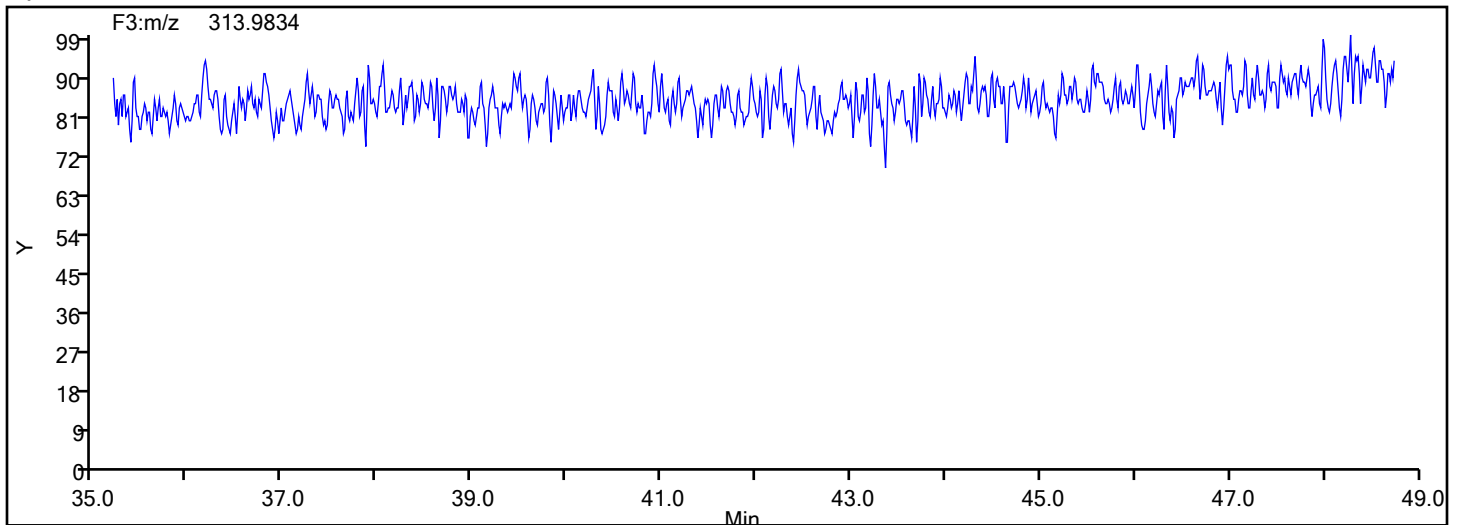


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

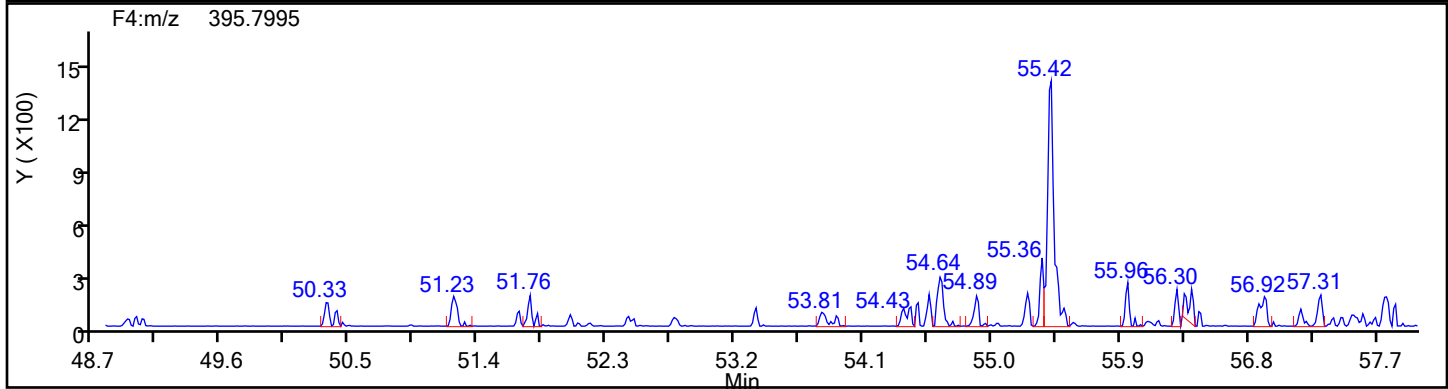
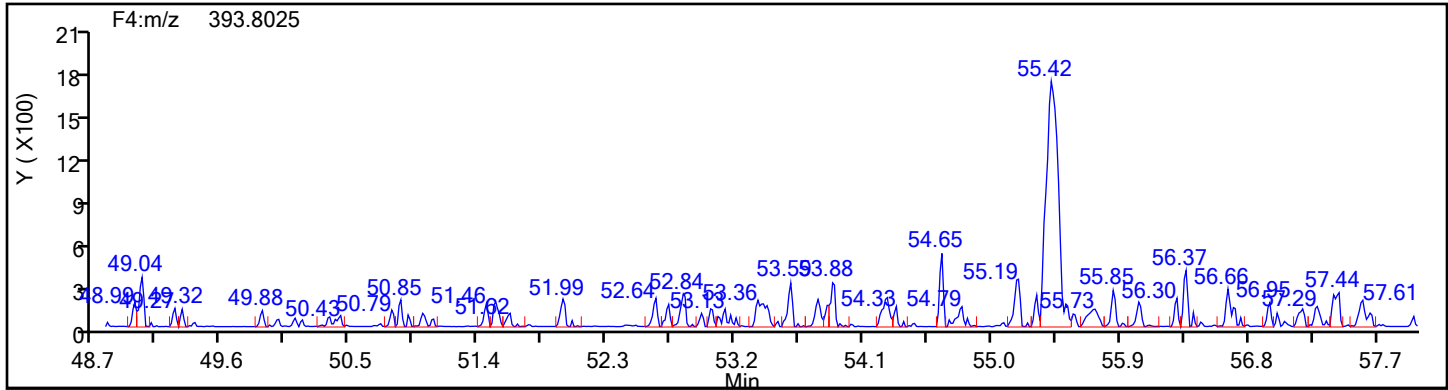


HpPCB F3 Lock Mass

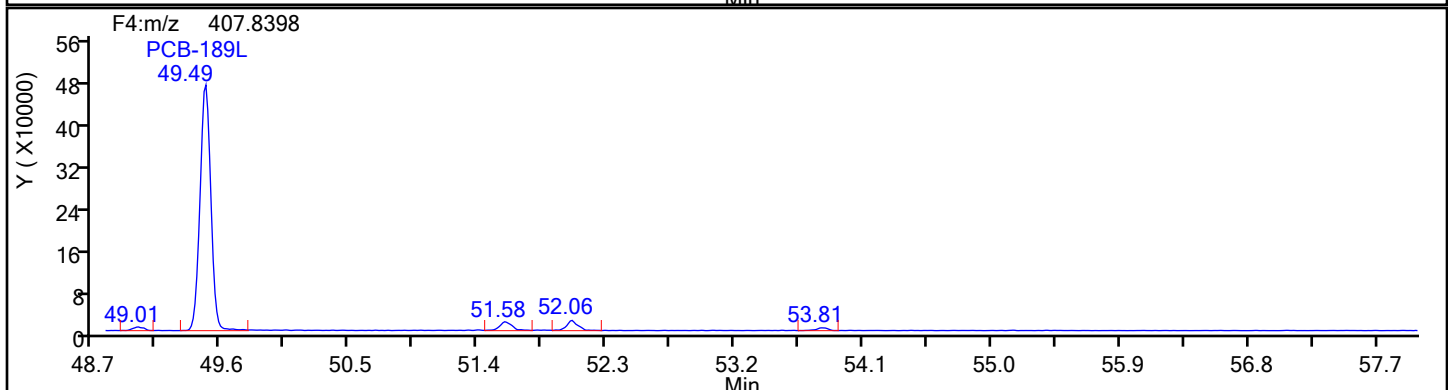
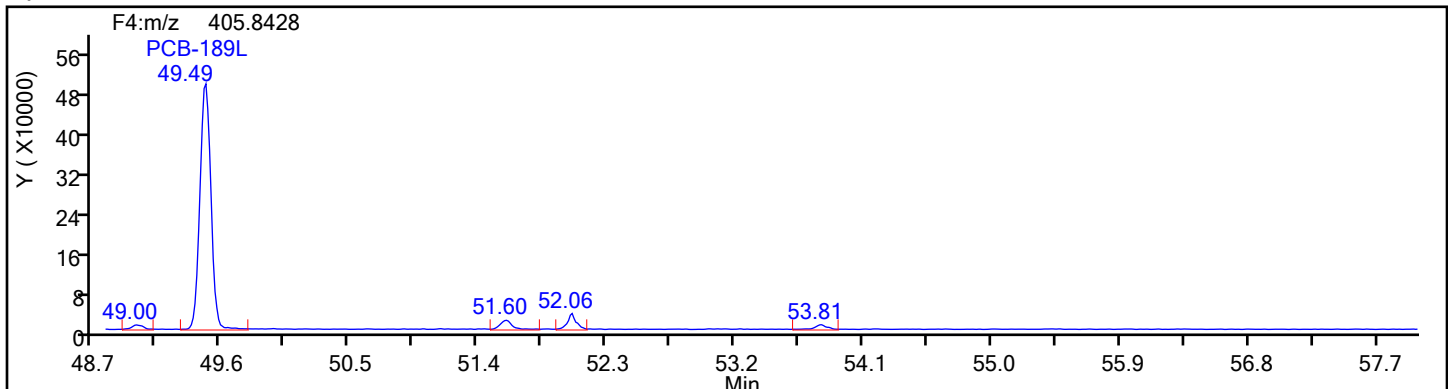


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

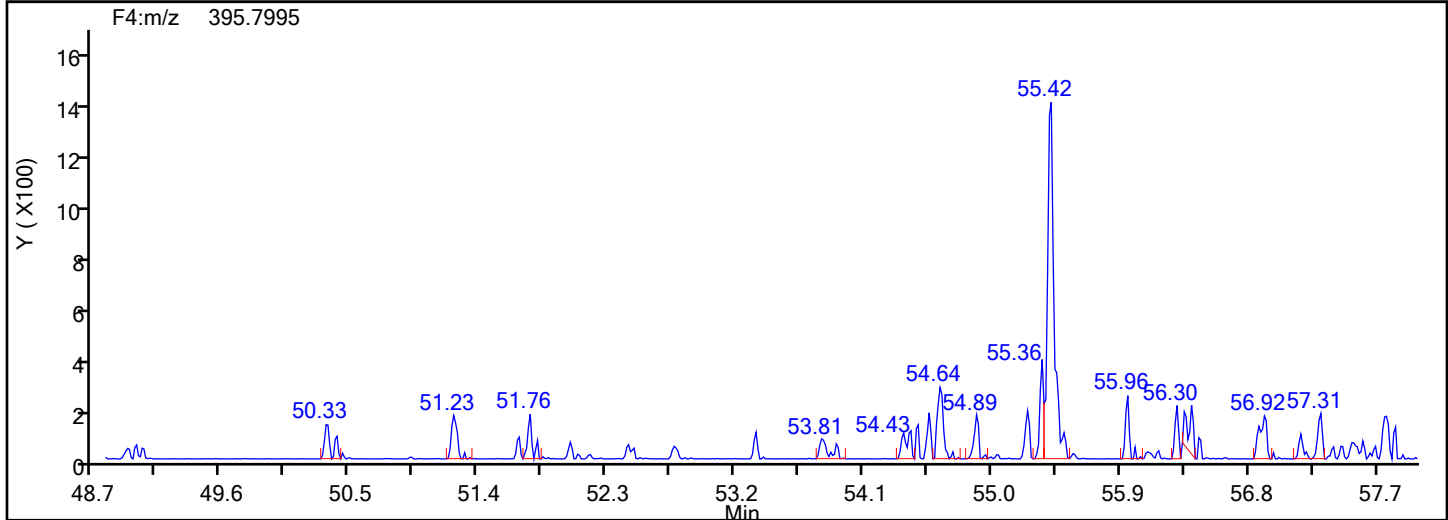
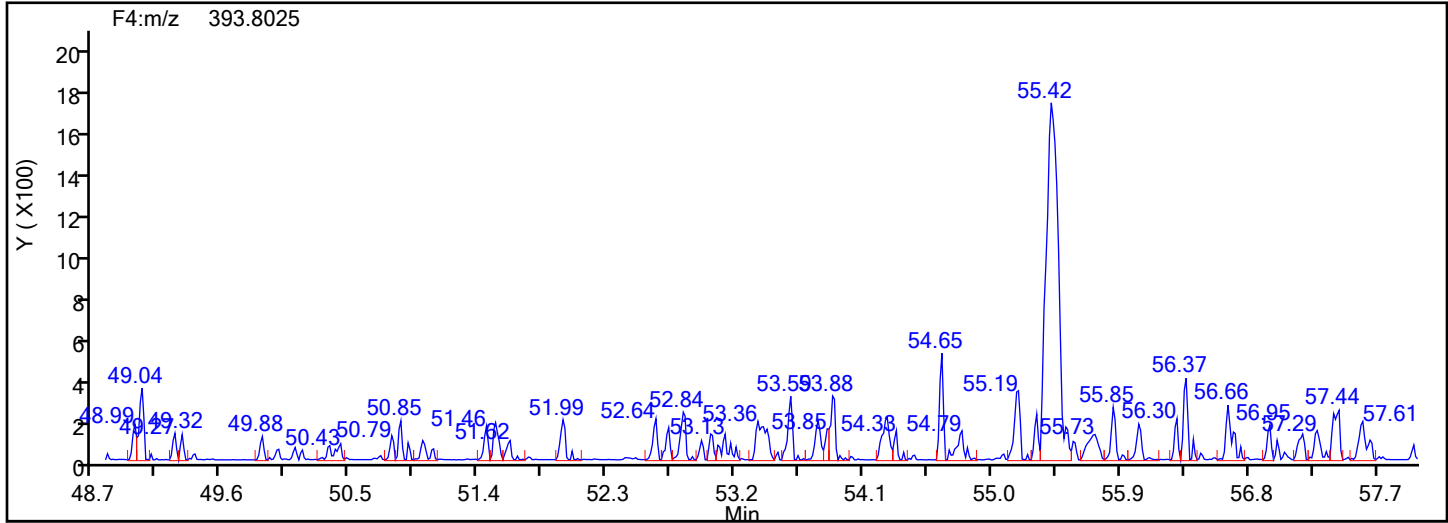


HpPCB F4 Standards

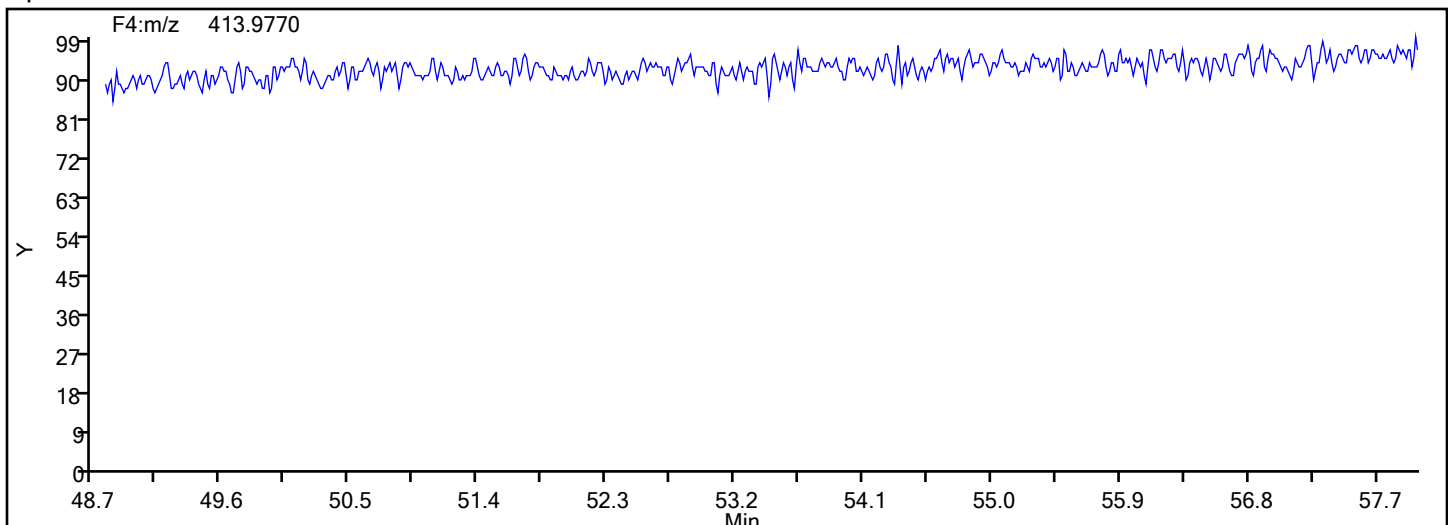


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

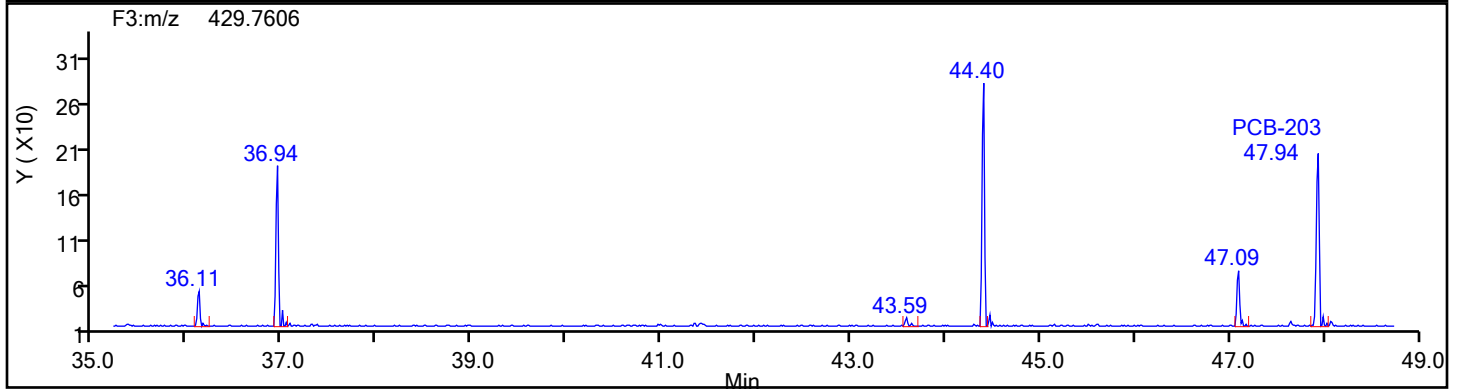
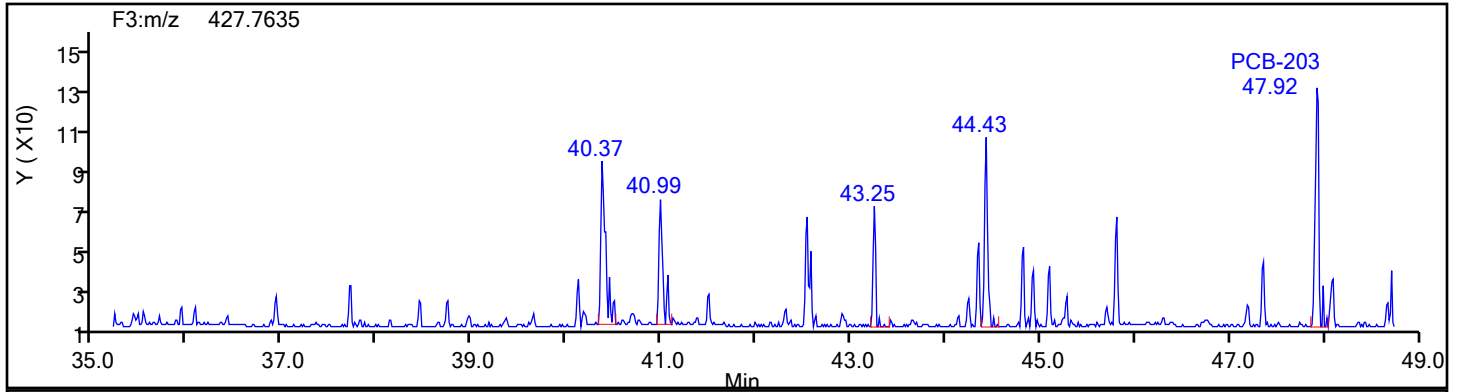


HpPCB F4 Lock Mass

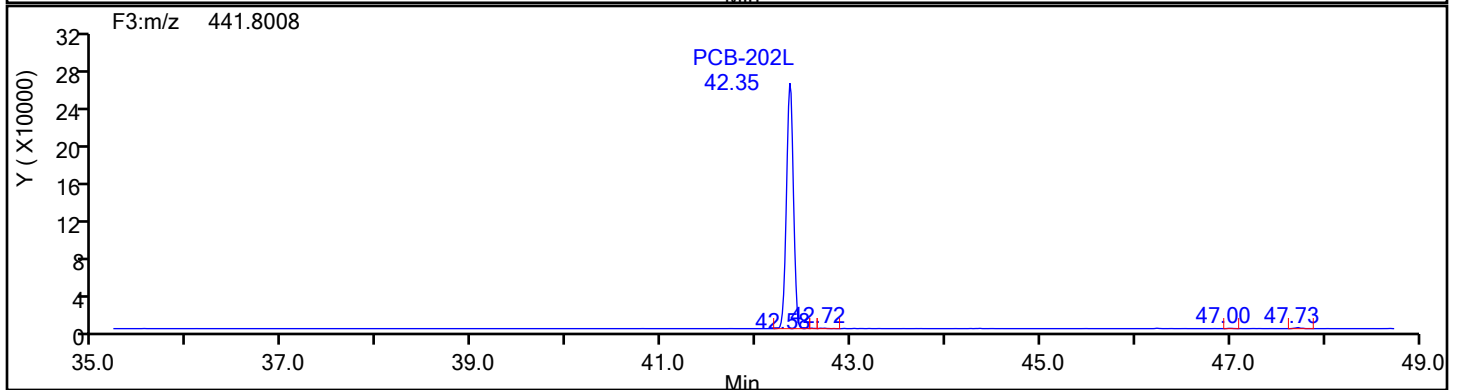
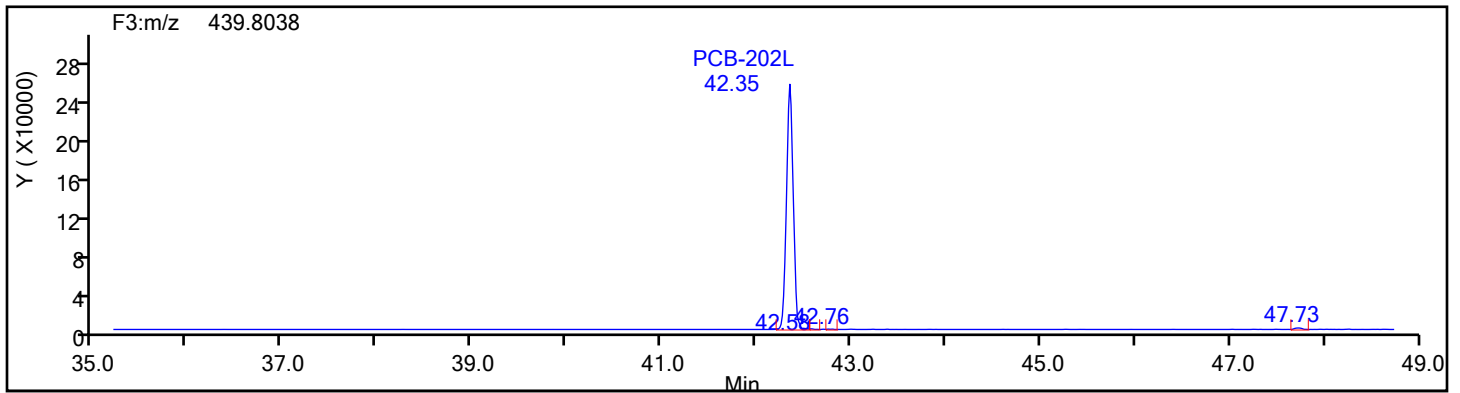


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

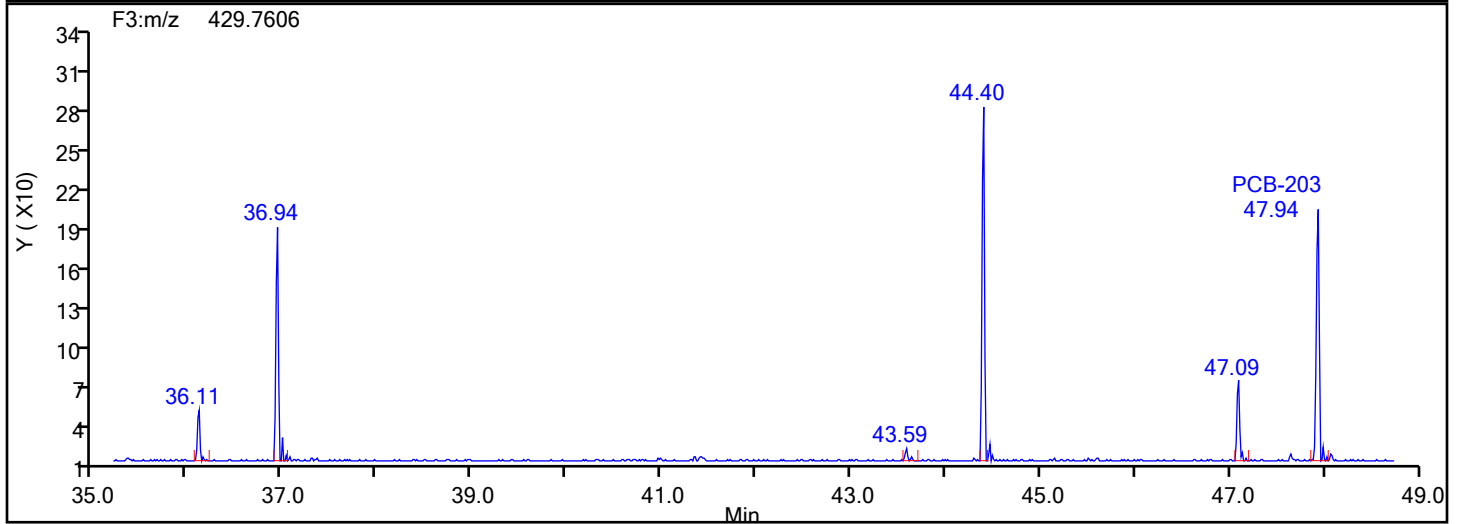
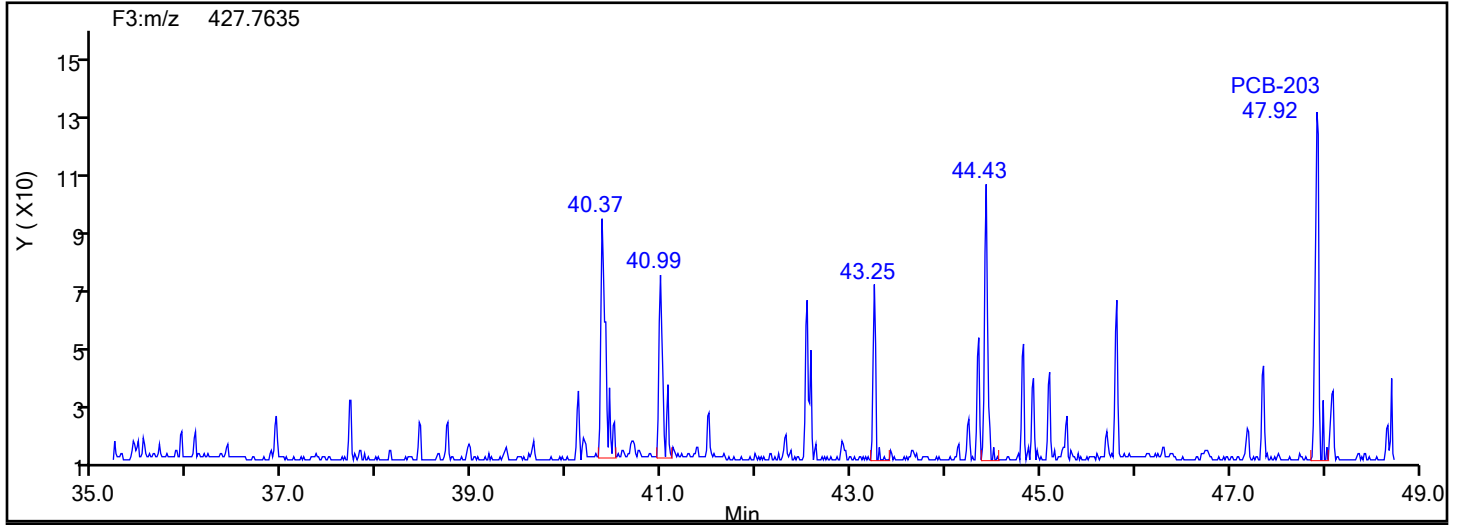


OcPCB F3 Standards

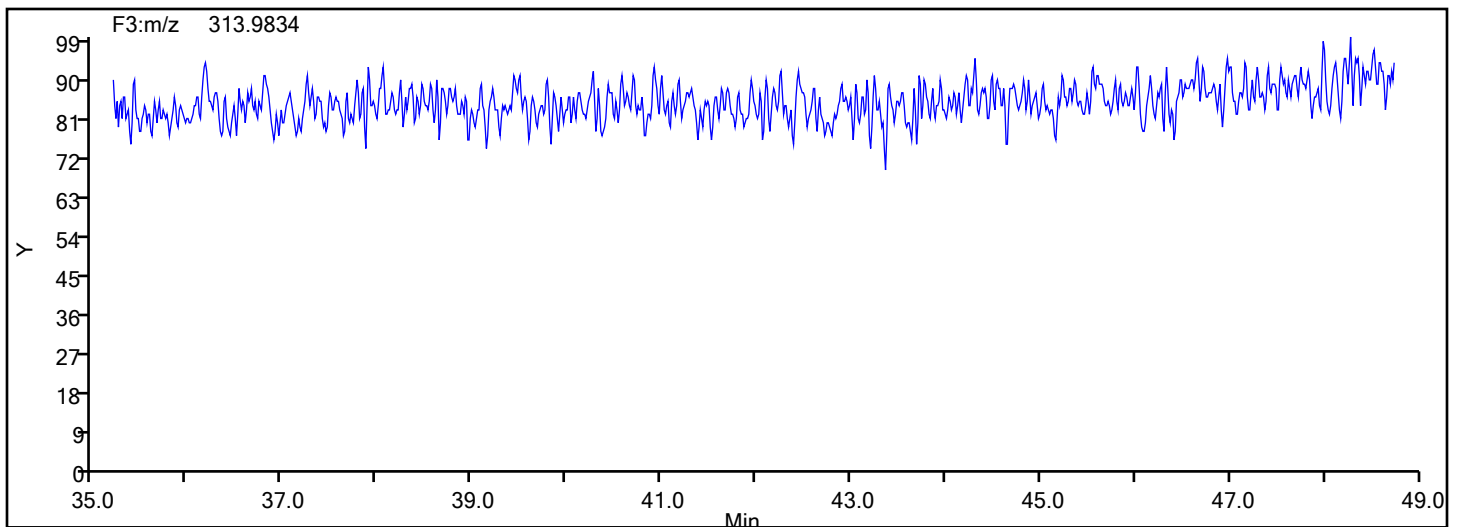


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

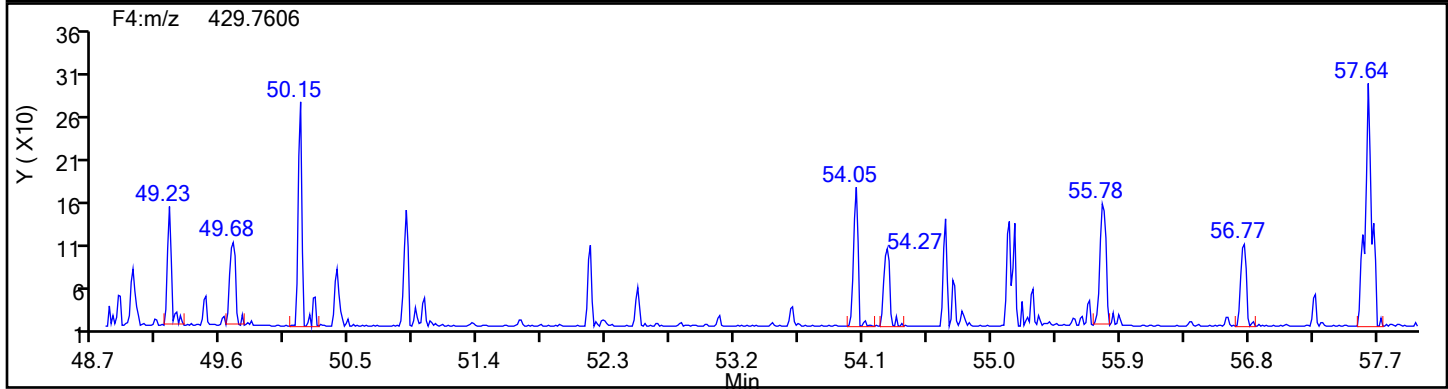
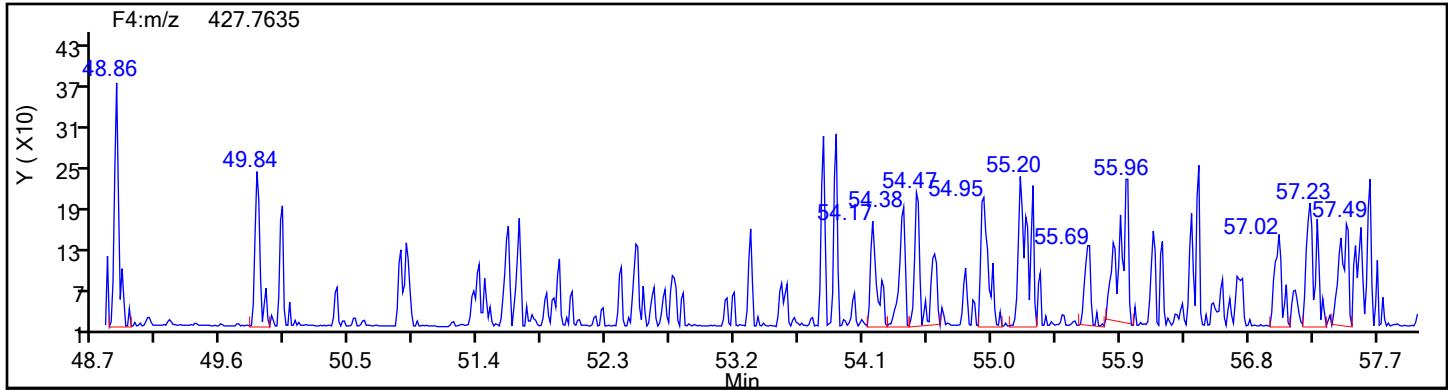


OcPCB F3 Lock Mass

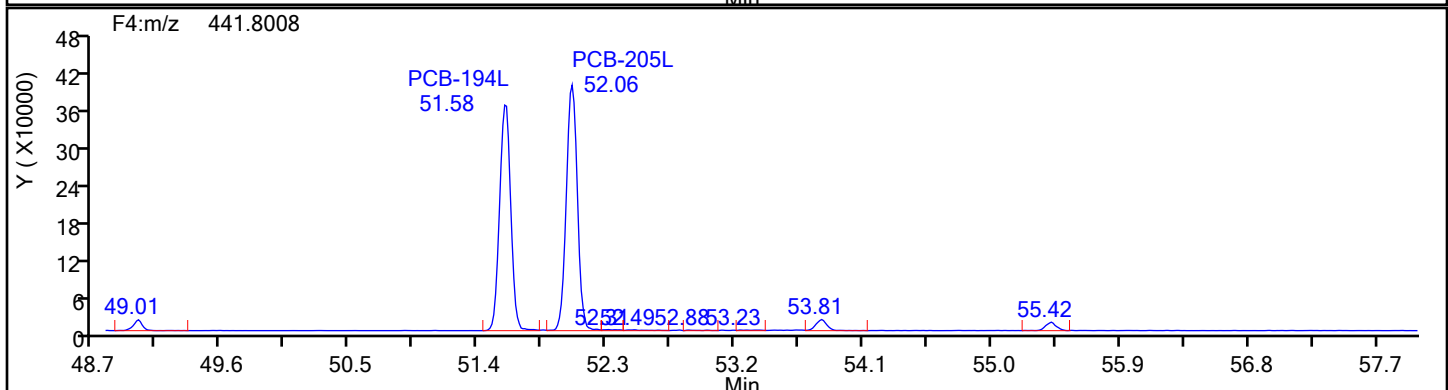
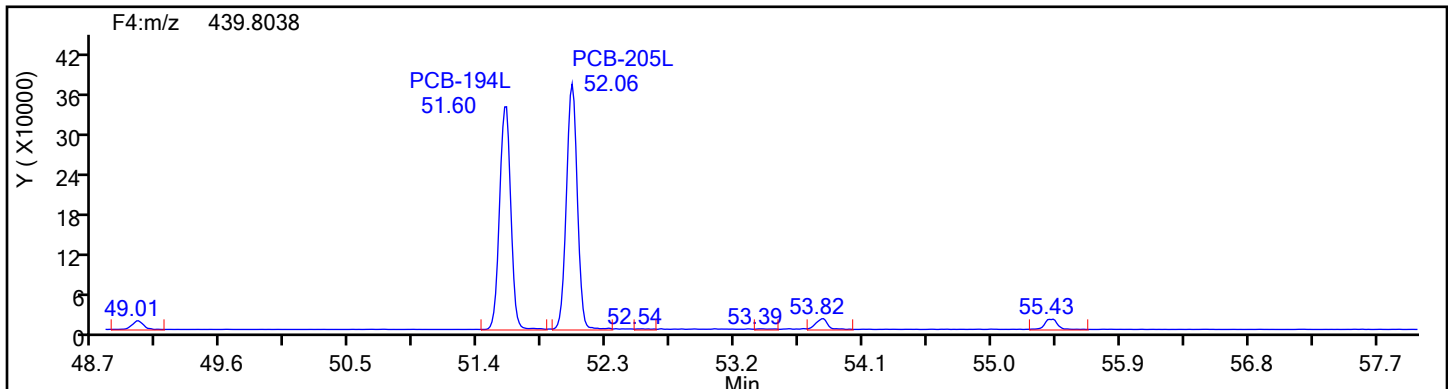


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

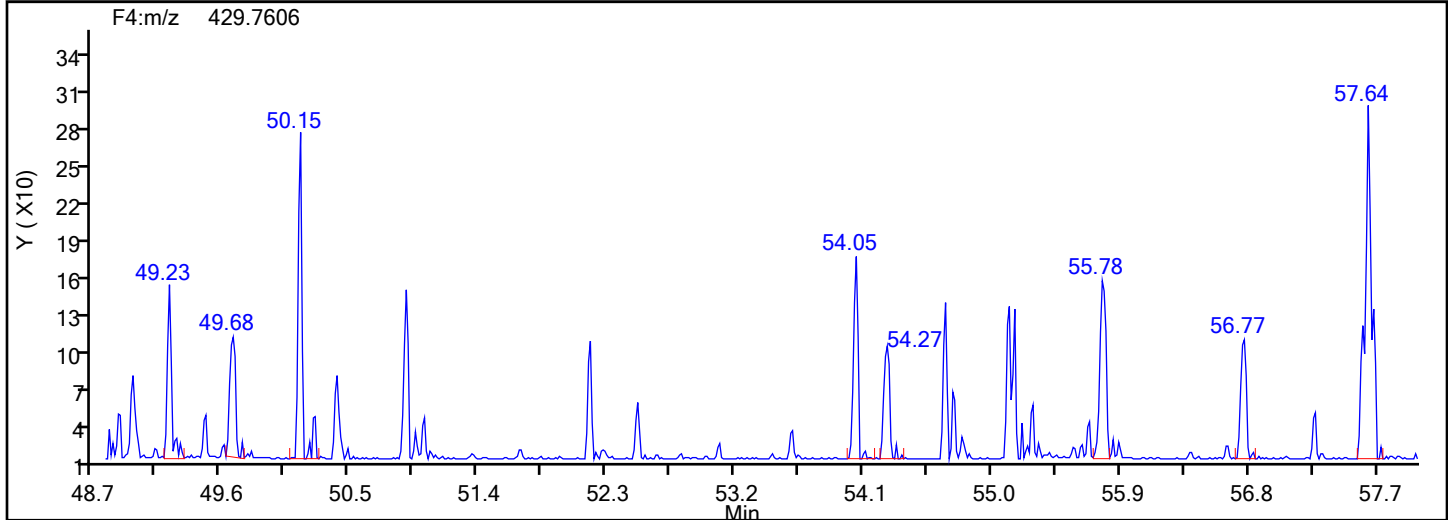
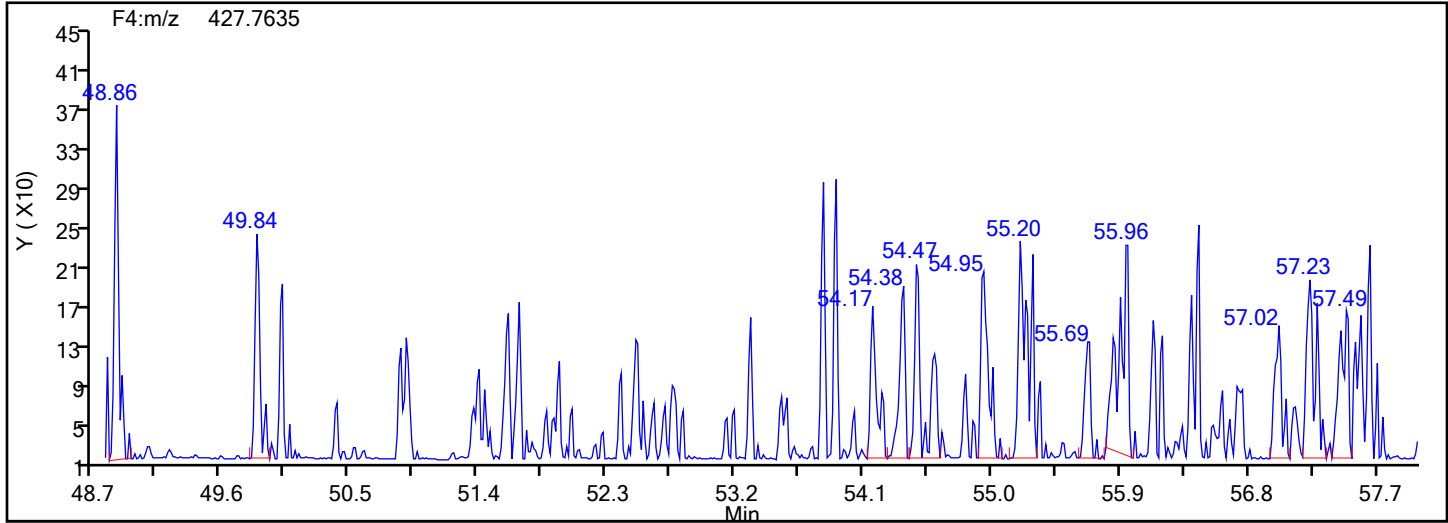


OcPCB F4 Standards

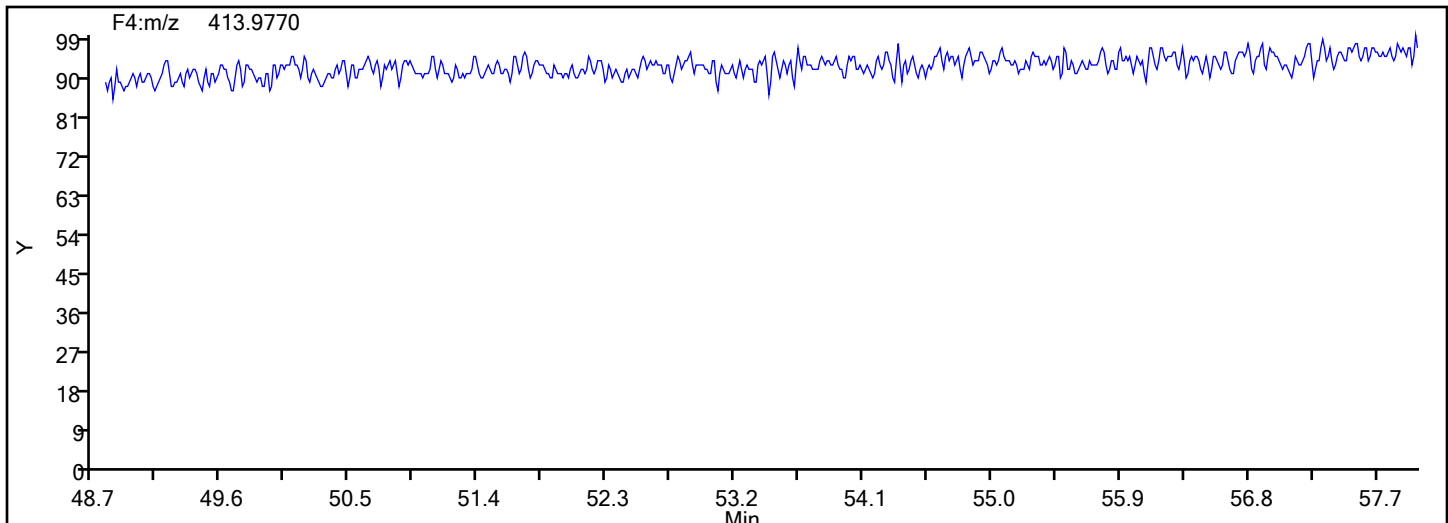


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

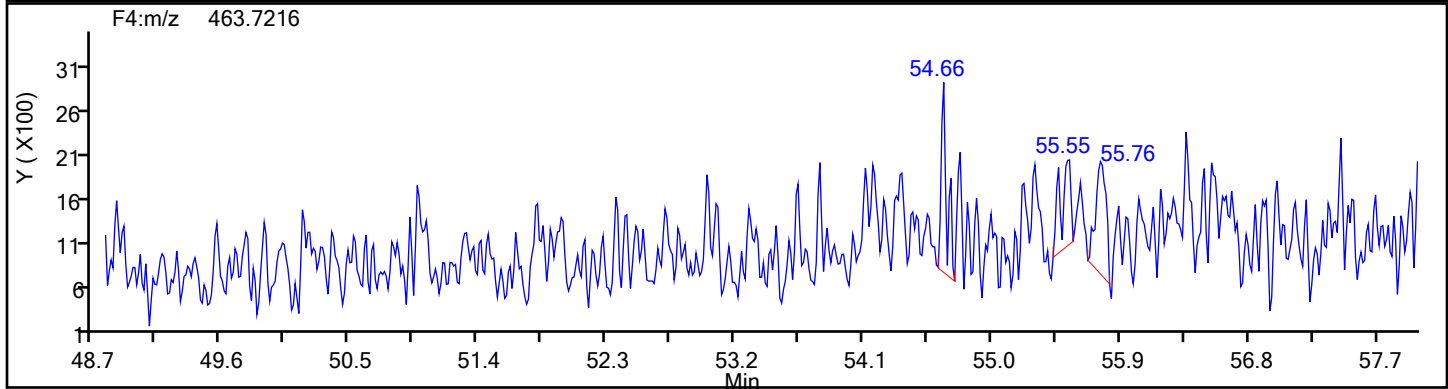
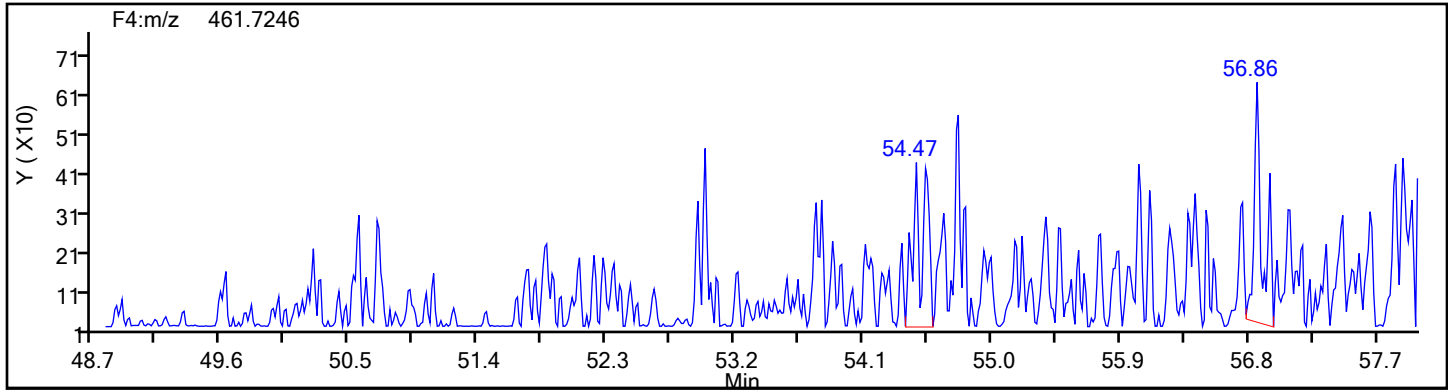


OcPCB F4 Lock Mass

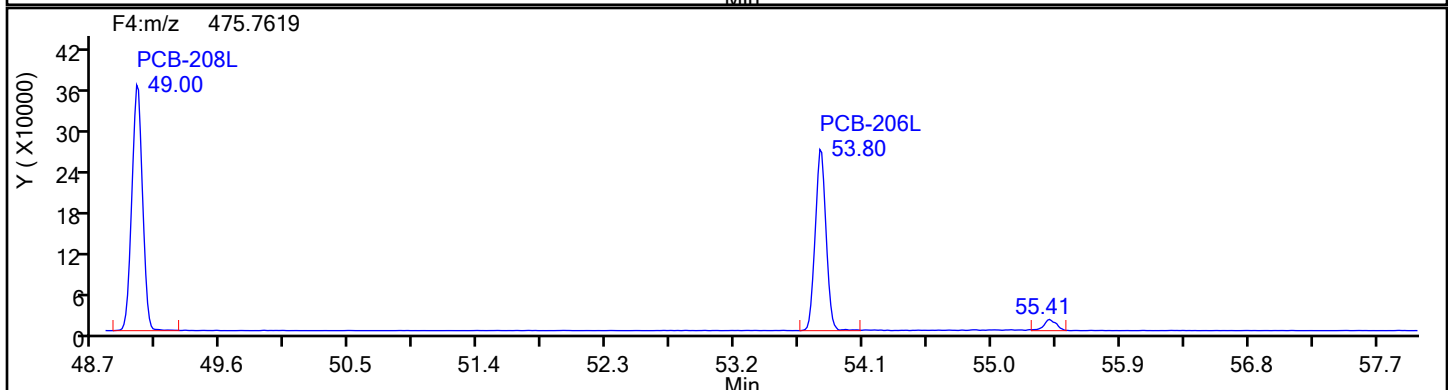
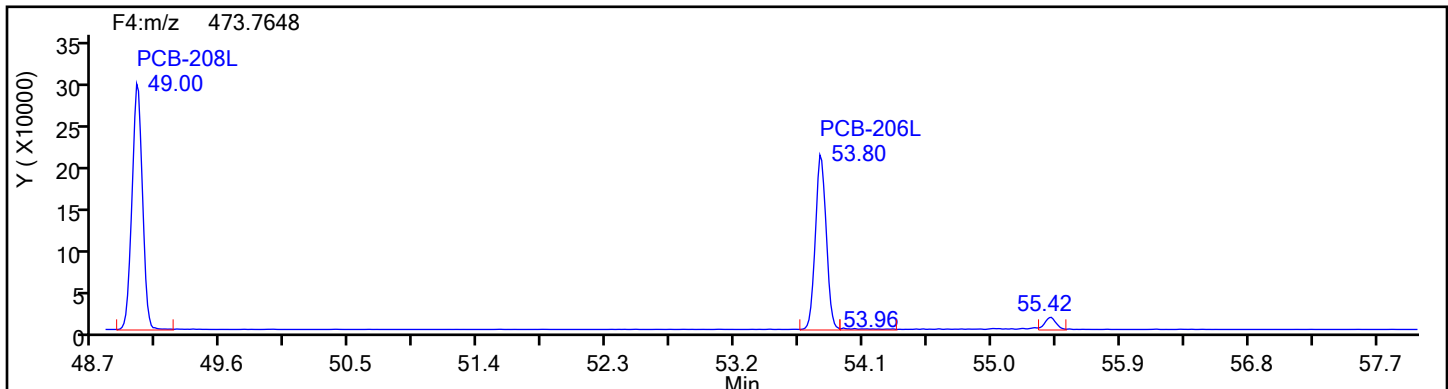


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

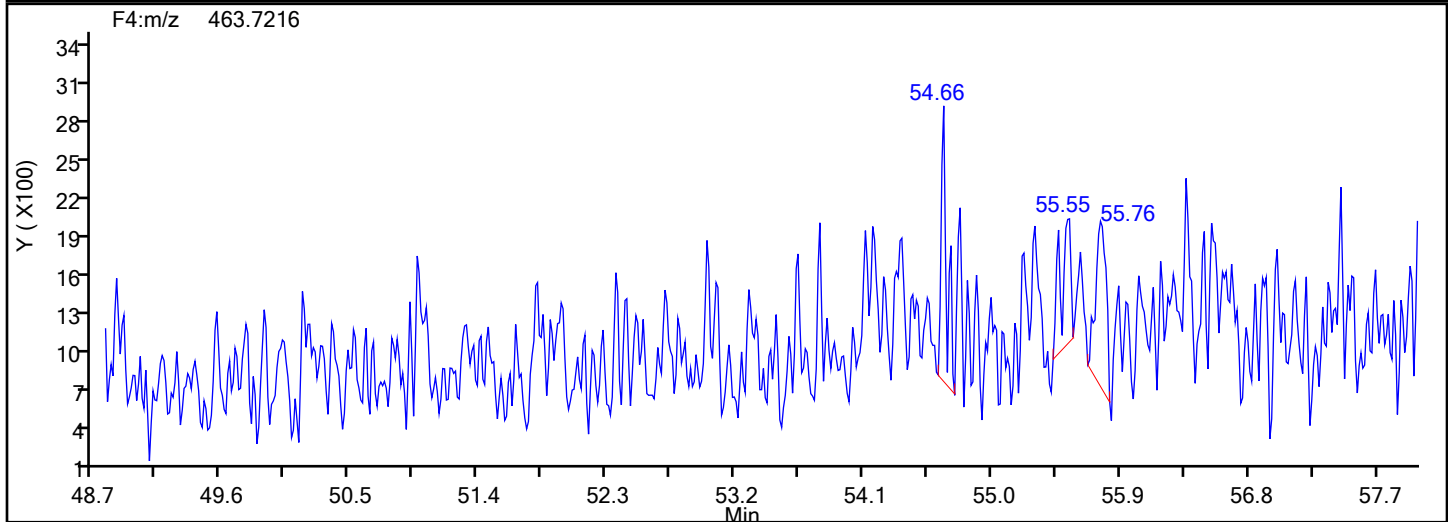
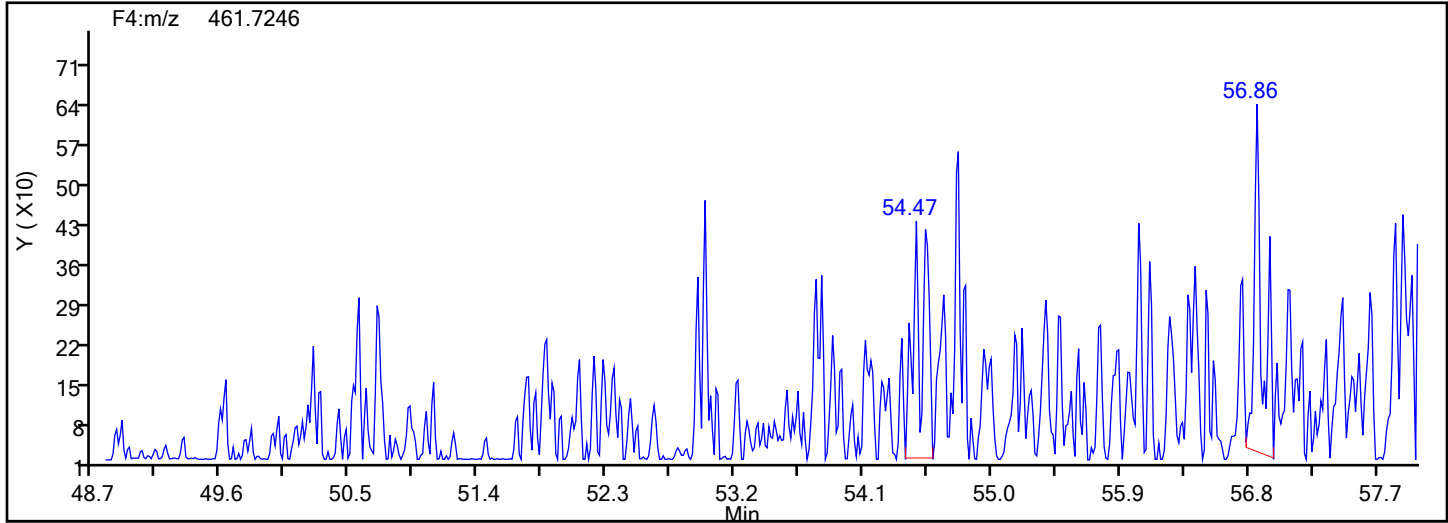


NoPCB F4 Standards

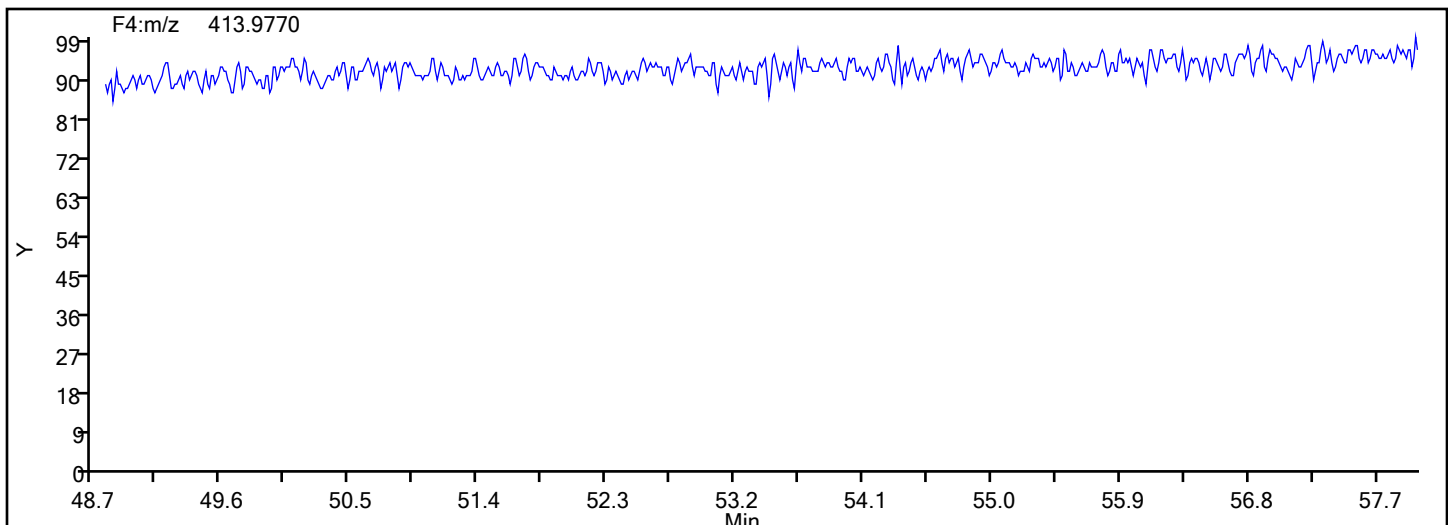


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

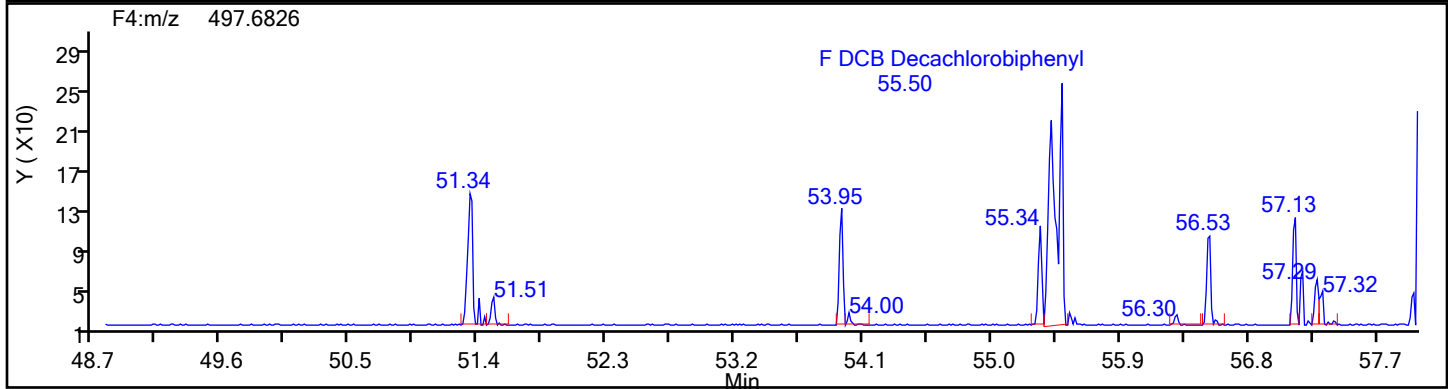
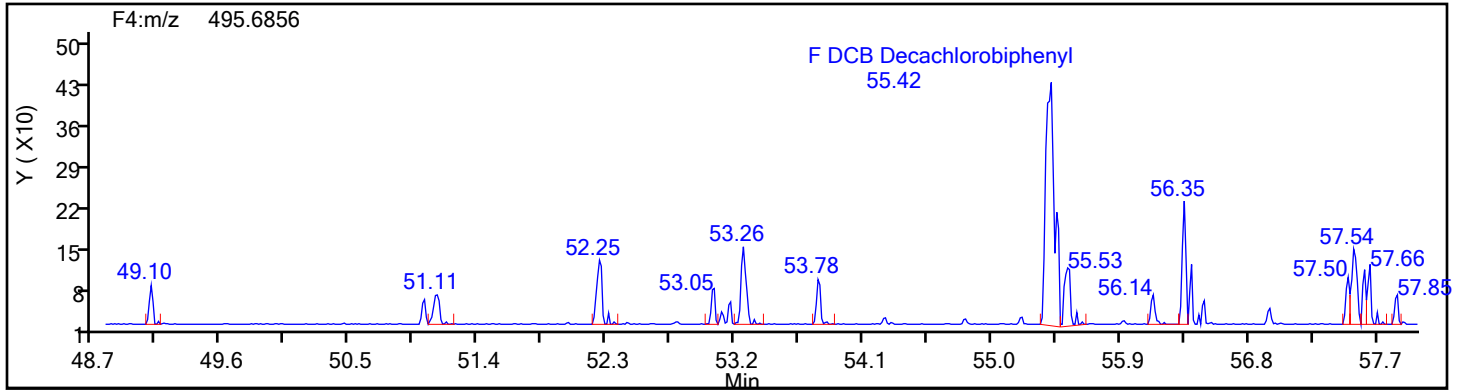


NoPCB F4 Lock Mass

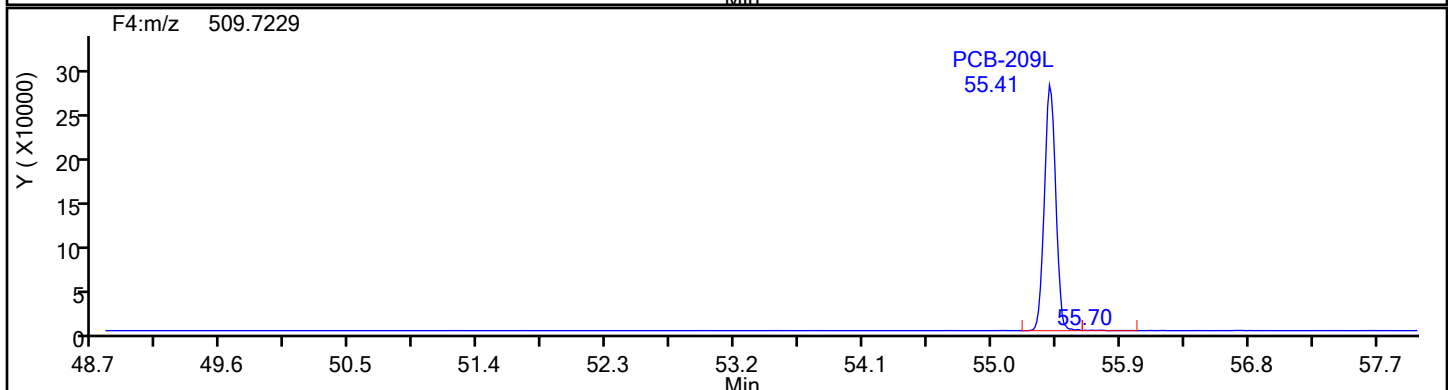
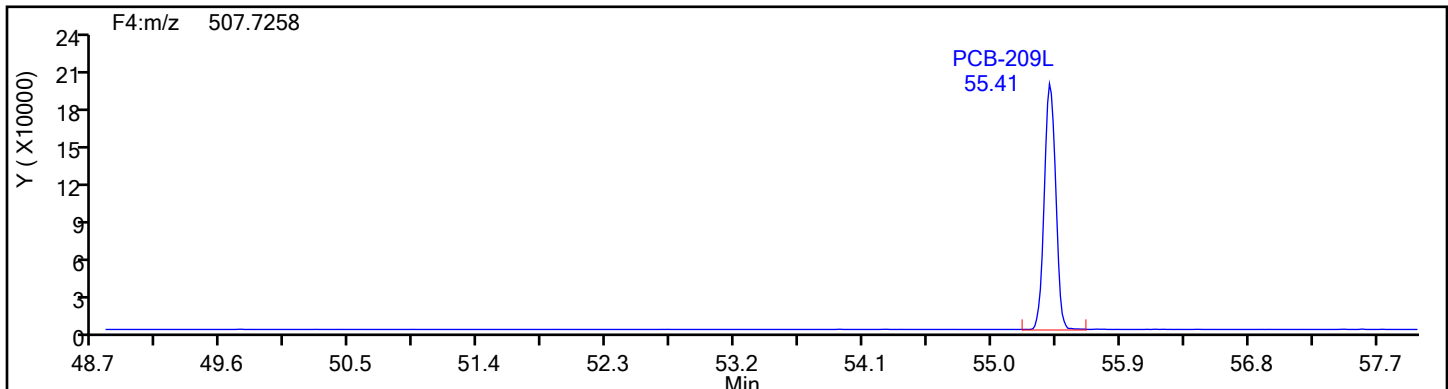


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

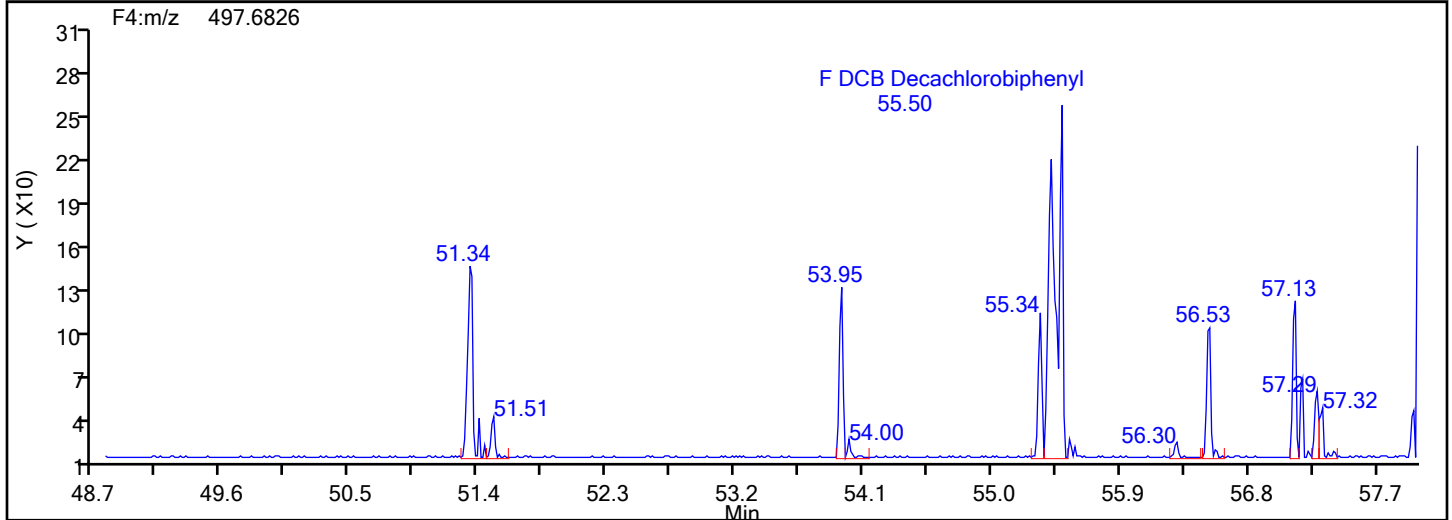
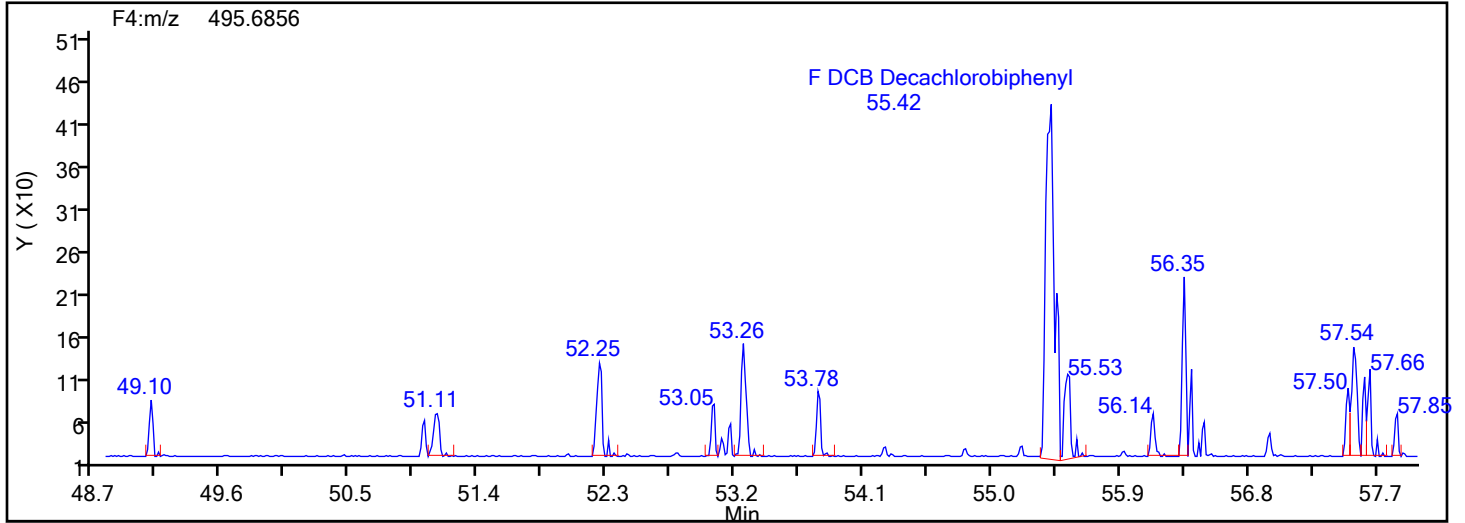


DePCB F4 Standards

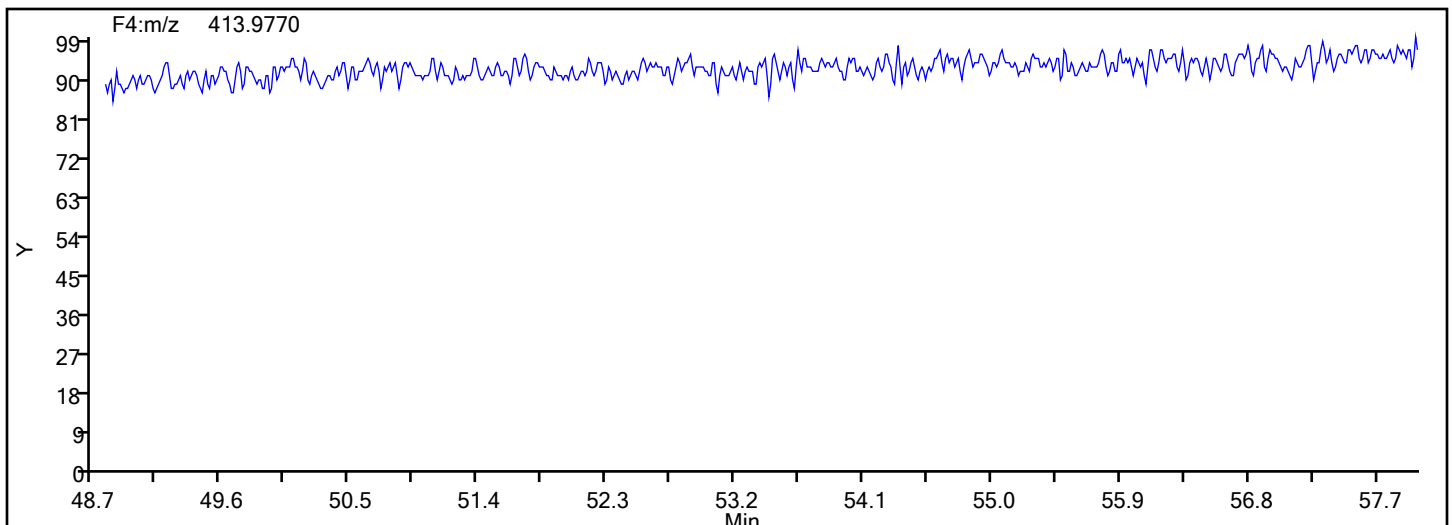


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Worklist#: 88780 Sample Line#: 12
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville

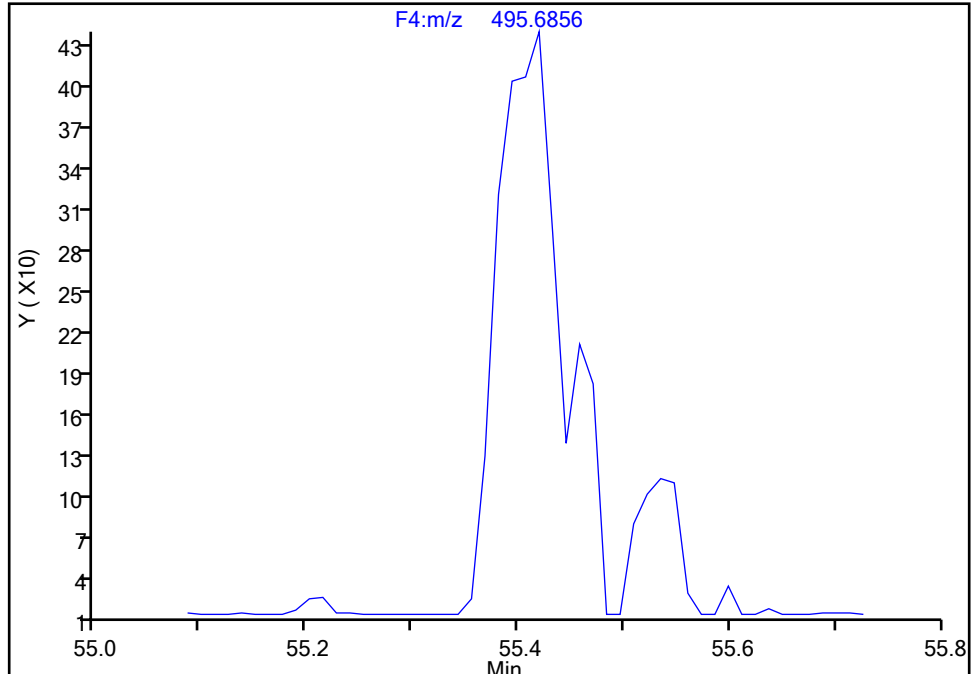
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Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

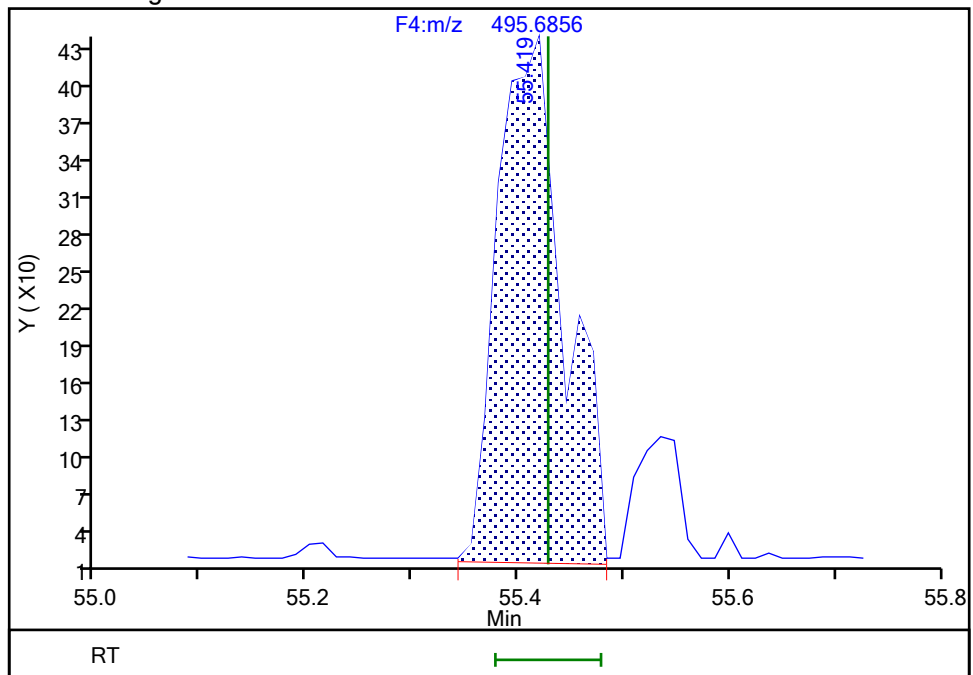
Not Detected
Expected RT: 55.43

Processing Integration Results



RT: 55.42
Area: 1817
Amount: 0.096212
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:13:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

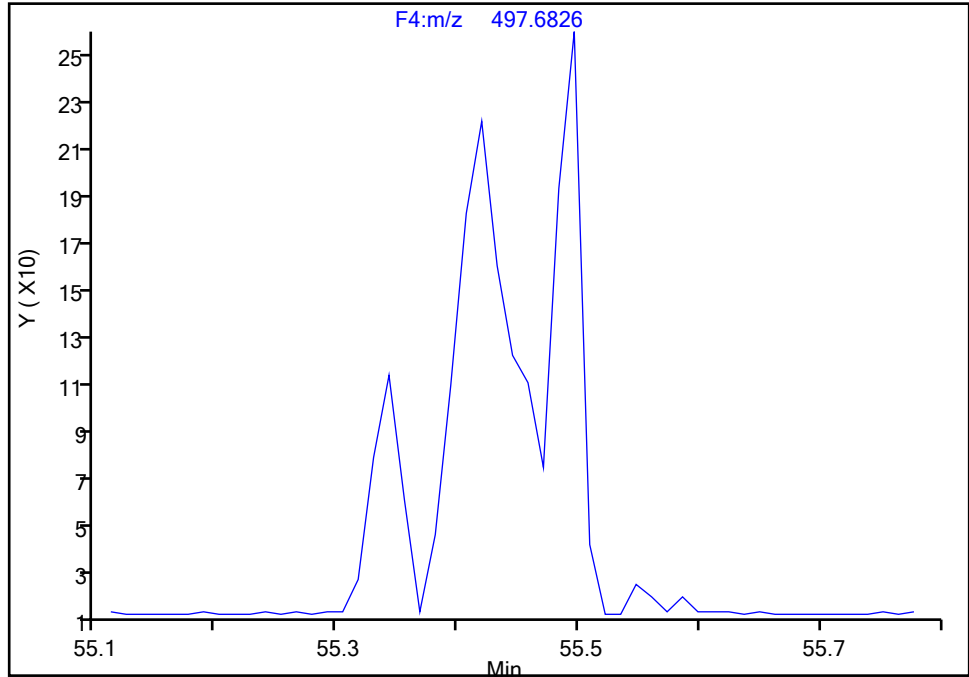
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Injection Date: 16-Jul-2024 09:03:00 Instrument ID: D2D
Lims ID: 140-37232-A-7-D Lab Sample ID: 140-37232-7
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

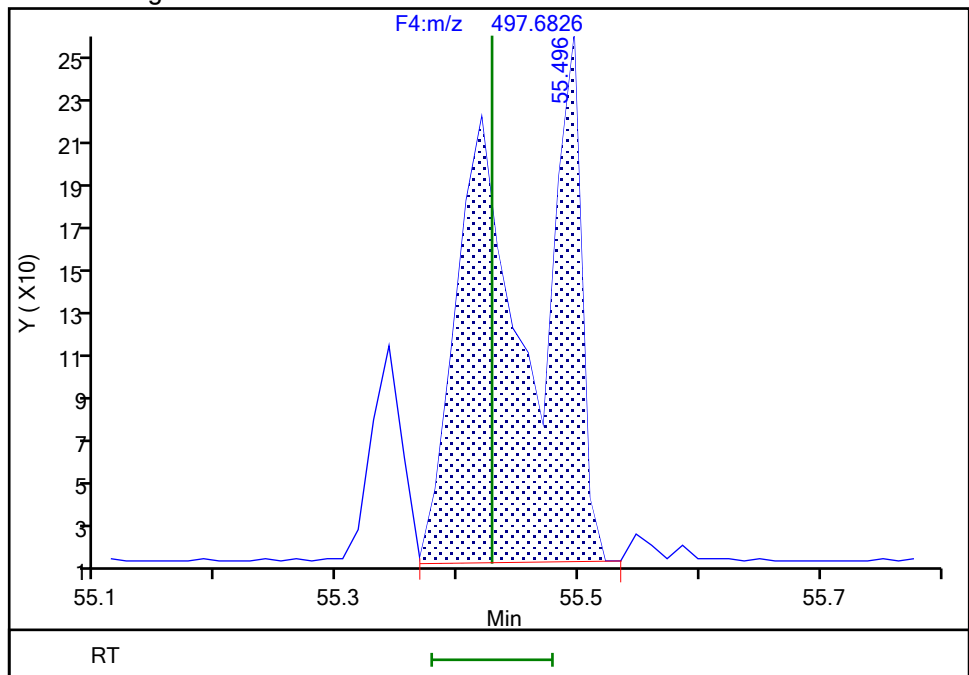
Not Detected
Expected RT: 55.43

Processing Integration Results



Manual Integration Results

RT: 55.50
Area: 1012
Amount: 0.096212
Amount Units: pg/ul



Reviewer: V4XA, 17-Jul-2024 01:13:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 1531 of 3050BASFWC-McIntosh-009532
9/6/2024
4:11:20 PM

Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-7-d.d
Lims ID: 140-37232-A-7-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 09:03:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-012
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:15:12 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:15:12

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	50.0	99.95
PCB-28L	100.0	72.4	72.39
PCB-79L	50.0	58.5	116.91
PCB-95L	50.0	57.3	114.69
PCB-111L	100.0	80.7	80.74
PCB-153L	50.0	50.1	100.15
PCB-178L	100.0	81.8	81.82

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN FB - COMBINED</u>	Lab Sample ID: <u>140-37232-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-8-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 16:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 10:05</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.188	J q	0.600	0.132	0.0157
37680-65-2	PCB-18	0.209	J C S	0.600	0.285	0.0104
7012-37-5	PCB-28	0.527	J B C20	0.600	0.252	0.0115
41464-39-5	PCB-44	1.48	C B	0.900	0.390	0.0122
35693-99-3	PCB-52	0.411		0.300	0.132	0.0129
32598-10-0	PCB-66	0.168	J	0.300	0.120	0.00946
32598-13-3	PCB-77	ND		0.300	0.126	0.0108
70362-50-4	PCB-81	ND		0.300	0.0960	0.0112
37680-73-2	PCB-101	0.0817	J C90	0.900	0.390	0.00687
32598-14-4	PCB-105	0.0279	J q	0.300	0.102	0.00850
74472-37-0	PCB-114	ND		0.300	0.165	0.00802
31508-00-6	PCB-118	0.0418	J	0.300	0.183	0.00785
65510-44-3	PCB-123	ND		0.300	0.171	0.00931
57465-28-8	PCB-126	ND		0.300	0.123	0.00972
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00288
35065-28-2	PCB-138	0.0202	J C129 q	1.20	0.510	0.00299
35065-27-1	PCB-153	0.0242	J C B	0.600	0.249	0.00259
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00302
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00302
52663-72-6	PCB-167	ND		0.300	0.180	0.00216
32774-16-6	PCB-169	ND		0.300	0.123	0.00215
35065-30-6	PCB-170	ND		0.300	0.132	0.000595
35065-29-3	PCB-180	ND	C	0.600	0.204	0.000438
52663-68-0	PCB-187	ND		0.300	0.126	0.000464
39635-31-9	PCB-189	ND		0.300	0.147	0.00427
52663-78-2	PCB-195	ND		0.300	0.159	0.00265
40186-72-9	PCB-206	ND		0.300	0.171	0.00573
2051-24-3	PCB-209	ND		0.300	0.138	0.00276

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - NO.7 BOILER OUTLET</u> <u>- RUN FB - COMBINED</u>	Lab Sample ID: <u>140-37232-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-a-8-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/14/2024 16:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 10:05</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	59		20-145
208263-77-8	PCB-3L	69		20-145
234432-86-1	PCB-4L	69		20-145
208263-67-6	PCB-15L	75		20-145
234432-87-2	PCB-19L	75		20-145
208263-79-0	PCB-37L	72		20-145
234432-88-3	PCB-54L	95		20-145
105600-23-5	PCB-77L	77		20-145
208461-24-9	PCB-81L	77		20-145
234432-89-4	PCB-104L	94		20-145
208263-62-1	PCB-105L	93		20-145
208263-63-2	PCB-114L	100		20-145
104130-40-7	PCB-118L	93		20-145
208263-64-3	PCB-123L	92		20-145
208263-65-4	PCB-126L	94		20-145
234432-90-7	PCB-155L	87		20-145
208263-68-7	PCB-156L	97	C	20-145
235416-30-5	PCB-157L	97	C156	20-145
208263-69-8	PCB-167L	87		20-145
208263-70-1	PCB-169L	90		20-145
160901-80-4	PCB-170L	92		20-145
234432-91-8	PCB-188L	100		20-145
208263-73-4	PCB-189L	94		20-145
105600-26-8	PCB-202L	89		20-145
234446-64-1	PCB-205L	96		20-145
208263-75-6	PCB-206L	100		20-145
234432-92-9	PCB-208L	94		20-145
105600-27-9	PCB-209L	111		20-145

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Lims ID: 140-37232-A-8-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 10:05:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:59:02 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:59:02

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.8376	0.8376	0.0290	0.0290		
D PCB-1L	11:36	6195884	3.23	1.6108	58.8	58.8	0.4222	0.4222	58.83	
D PCB-3L	13:45	7174421	3.06	1.5891	69.0	69.0	0.4280	0.4280	69.05	
PCB-1	11:37	23432	2.84	1.2191	0.3102	0.3102	0.0280	0.0280		M
PCB-2	13:35	17452	2.80	1.1805	0.2211	0.2211	0.0297	0.0297		
PCB-3	13:46	26815	3.03	1.2206	0.3062	0.3062	0.0294	0.0294		M
S Total Dichlorobiphenyls					10.8	10.5	0.0604	0.0604		RQ
D PCB-4L	14:00	2906746	1.56	0.6475	68.7	68.7	0.1872	0.1872	68.65	
* PCB-9L	16:00	6538485	1.59		100.0	100.0				
\$ PCB-8L	16:52	2463325	1.69	1.2066	49.9	49.9	0.1604	0.1604	99.89	a
D PCB-15L	20:04	5268372	1.65	1.0789	74.7	74.7	0.1123	0.1123	74.68	
PCB-4	14:01	11961	1.56	1.2818	0.3691	0.3210	0.0665	0.0665		RQM
PCB-10	14:13						0.0633	0.0633		
PCB-9	15:59						0.0585	0.0585		
PCB-7	16:09	19600	1.50	1.4134	0.3393	0.3393	0.0589	0.0589		
PCB-6	16:26	15132	1.56	1.5421	0.2686	0.2401	0.0539	0.0539		RQa
PCB-5	16:43						0.0621	0.0621		
PCB-8	16:54	40611	1.56	1.5889	0.6922	0.6253	0.0524	0.0524		RQa
PCB-14	18:26						0.0593	0.0593		
PCB-11	19:29	443262	1.57	1.2951	8.373	8.373	0.0642	0.0642		
PCB-12	19:43	14308	1.56	1.3358	0.3945	0.2620	0.0623	0.0623		RQM
PCB-13 (C12)	19:43	14308	1.56	1.3358	0.3945	0.2620	0.0623	0.0623		RQM
PCB-15	20:05	21609	1.56	1.2903	0.3501	0.3179	0.0630	0.0630		RQM
S Total Trichlorobiphenyls					8.713	8.125	0.0401	0.0401		RQ
D PCB-19L	17:11	1969421	1.09	0.6285	75.3	75.3	0.4228	0.4228	75.35	
* PCB-32L	20:30	4158331	1.06		100.0	100.0				a
* PCB-31L	22:40	11562127	1.05		100.0	100.0				
\$ PCB-28L	22:57	9079108	1.04	1.0494	74.8	74.8	0.1194	0.1194	74.83	
D PCB-37L	26:53	7291070	1.07	0.8749	72.1	72.1	0.1433	0.1433	72.07	
PCB-19	17:08						0.0476	0.0476		
PCB-18	19:13	24203	0.94	1.7652	0.6962	0.6962	0.0345	0.0345		M
PCB-30 (C18)	19:13	24203	0.94	1.7652	0.6962	0.6962	0.0345	0.0345		M
PCB-17	19:35	14811	1.04	1.2430	0.7511	0.6050	0.0490	0.0490		RQa
PCB-27	19:46	3801	1.04	1.8327	0.1331	0.1053	0.0332	0.0332		RQa

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:46						0.0363	0.0363		RQU
PCB-16	20:01	8814	1.04	1.1286	0.4466	0.3966	0.0540	0.0540		RQMa
PCB-32	20:31	14677	1.04	1.8324	0.4399	0.4067	0.0332	0.0332		RQMa
PCB-34	21:36						0.0400	0.0400		
PCB-23	21:45						0.0417	0.0417		
PCB-26	22:09	18046	1.04	1.1255	0.3371	0.2199	0.0401	0.0401		RQ
PCB-29 (C26)	22:09	18046	1.04	1.1255	0.3371	0.2199	0.0401	0.0401		RQ
PCB-25	22:23	18763	0.91	1.2728	0.2022	0.2022	0.0354	0.0354		a
PCB-31	22:41	148999	1.07	1.1532	1.772	1.772	0.0391	0.0391		a
PCB-20	22:58	149990	0.97	1.1718	1.756	1.756	0.0385	0.0385		
PCB-28 (C20)	22:58	149990	0.97	1.1718	1.756	1.756	0.0385	0.0385		
PCB-21	23:13	79306	1.04	1.0746	1.225	1.012	0.0420	0.0420		RQa
PCB-33 (C21)	23:13	79306	1.04	1.0746	1.225	1.012	0.0420	0.0420		RQa
PCB-22	23:36	52108	0.89	1.1932	0.5989	0.5989	0.0378	0.0378		
PCB-36	25:05						0.0407	0.0407		
PCB-39	25:27						0.0389	0.0389		
PCB-38	26:01						0.0416	0.0416		
PCB-35	26:30	9517	0.88	1.1297	0.1155	0.1155	0.0399	0.0399		
PCB-37	26:56	19917	1.17	1.1435	0.2389	0.2389	0.0394	0.0394		
S Total Tetrachlorobiphenyls					14.1	13.6	0.0364	0.0364		RQ
D PCB-54L	20:21	2203099	0.82	0.5562	95.3	95.3	0.0846	0.0846	95.25	
* PCB-52L	24:45	5546461	0.79		100.0	100.0				
\$ PCB-79L	32:36	3266005	0.81	1.0018	59.4	59.4	0.4985	0.4985	119	
D PCB-81L	33:36	5312985	0.81	1.2470	76.8	76.8	0.3224	0.3224	76.82	
D PCB-77L	34:10	5667021	0.81	1.3212	77.3	77.3	0.3043	0.3043	77.33	
PCB-54	20:12						0.0136	0.0136		
PCB-50	22:24	14219	0.77	0.8578	0.3446	0.3019	0.0462	0.0462		RQa
PCB-53 (C50)	22:24	14219	0.77	0.8578	0.3446	0.3019	0.0462	0.0462		RQa
PCB-45	23:08	80403	0.68	0.8264	1.772	1.772	0.0480	0.0480		a
PCB-51 (C45)	23:08	80403	0.68	0.8264	1.772	1.772	0.0480	0.0480		a
PCB-46	23:23	5822	0.77	0.7101	0.1689	0.1493	0.0559	0.0559		RQa
PCB-52	24:45	69141	0.79	0.9194	1.370	1.370	0.0431	0.0431		a
PCB-43	24:52						0.0384	0.0384		
PCB-73 (C43)	24:52						0.0384	0.0384		
PCB-49	25:14	38098	0.77	1.0685	0.7357	0.6494	0.0371	0.0371		RQa
PCB-69 (C49)	25:14	38098	0.77	1.0685	0.7357	0.6494	0.0371	0.0371		RQa
PCB-48	25:31	12930	0.77	0.8399	0.4046	0.2804	0.0472	0.0472		RQMa
PCB-44	25:46	263480	0.77	0.9731	4.932	4.932	0.0408	0.0408		a
PCB-47 (C44)	25:46	263480	0.77	0.9731	4.932	4.932	0.0408	0.0408		a
PCB-65 (C44)	25:46	263480	0.77	0.9731	4.932	4.932	0.0408	0.0408		a
PCB-59	26:06	7747	0.66	1.1853	0.1191	0.1191	0.0335	0.0335		a
PCB-62 (C59)	26:06	7747	0.66	1.1853	0.1191	0.1191	0.0335	0.0335		a
PCB-75 (C59)	26:06	7747	0.66	1.1853	0.1191	0.1191	0.0335	0.0335		a
PCB-42	26:15	10213	0.77	0.8097	0.2840	0.2298	0.0490	0.0490		RQMa
PCB-40	26:47	26116	0.73	0.8863	0.5367	0.5367	0.0448	0.0448		M
PCB-41 (C40)	26:47	26116	0.73	0.8863	0.5367	0.5367	0.0448	0.0448		M
PCB-71 (C40)	26:47	26116	0.73	0.8863	0.5367	0.5367	0.0448	0.0448		M
PCB-64	26:58	32301	0.68	1.1776	0.4996	0.4996	0.0337	0.0337		Ma
PCB-72	27:46						0.0362	0.0362		
PCB-68	28:05	47762	0.81	1.2533	0.6942	0.6942	0.0316	0.0316		M
PCB-57	28:29						0.0367	0.0367		
PCB-58	28:44						0.0299	0.0299		
PCB-67	28:53						0.0279	0.0279		
PCB-63	29:09						0.0353	0.0353		
PCB-61	29:30	73182	0.81	1.2612	1.057	1.057	0.0314	0.0314		
PCB-70 (C61)	29:30	73182	0.81	1.2612	1.057	1.057	0.0314	0.0314		
PCB-74 (C61)	29:30	73182	0.81	1.2612	1.057	1.057	0.0314	0.0314		
PCB-76 (C61)	29:30	73182	0.81	1.2612	1.057	1.057	0.0314	0.0314		
PCB-66	29:48	38637	0.76	1.2583	0.5593	0.5593	0.0315	0.0315		M
PCB-55	29:57	2786	0.77	1.3236	0.0580	0.0383	0.0300	0.0300		RQMa
PCB-56	30:30	17086	0.77	1.2334	0.3230	0.2523	0.0322	0.0322		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42	9806	0.77	1.1230	0.1933	0.1590	0.0353	0.0353		RQ
PCB-80	31:06						0.0300	0.0300		
PCB-79	32:38						0.0276	0.0276		
PCB-78	33:11						0.0341	0.0341		
PCB-81	33:38						0.0372	0.0372		
PCB-77	34:12						0.0361	0.0361		
S Total Pentachlorobiphenyls					1.715	1.441	0.0251	0.0251		RQ
D PCB-104L	25:40	3814561	1.56	1.2161	94.1	94.1	0.0603	0.0603	94.15	
\$ PCB-95L	28:37	1571043	1.58	0.7218	57.1	57.1	0.0810	0.0810	114	
* PCB-101L	31:31	3331876	1.62		100.0	100.0				
\$ PCB-111L	34:10	3715208	1.58	1.3699	81.4	81.4	0.0536	0.0536	81.40	
D PCB-123L	36:08	5135340	1.59	0.9731	92.5	92.5	1.213	1.213	92.48	
D PCB-118L	36:28	5383962	1.60	1.0102	93.4	93.4	1.168	1.168	93.40	
D PCB-114L	36:59	5673560	1.60	0.9949	99.9	99.9	1.186	1.186	99.94	
D PCB-105L	37:40	5075134	1.62	0.9514	93.5	93.5	1.240	1.240	93.48	
* PCB-127L	39:07	5706465	1.57		100.0	100.0				
D PCB-126L	40:44	5045994	1.60	0.9439	93.7	93.7	1.250	1.250	93.69	
PCB-104	25:40						0.0217	0.0217		
PCB-96	26:03						0.0200	0.0200		
PCB-103	27:57						0.0250	0.0250		
PCB-94	28:11						0.0286	0.0286		
PCB-95	28:37	7689	1.55	0.8033	0.2786	0.2509	0.0272	0.0272		RQM
PCB-93	28:48	910	1.55	0.8429	0.0562	0.0283	0.0259	0.0259		RQM
PCB-100 (C93)	28:48	910	1.55	0.8429	0.0562	0.0283	0.0259	0.0259		RQM
PCB-98	28:59						0.0265	0.0265		
PCB-102 (C98)	28:59						0.0265	0.0265		
PCB-88	29:29						0.0273	0.0273		
PCB-91 (C88)	29:29						0.0273	0.0273		
PCB-84	29:44	1973	1.55	0.7299	0.1221	0.0709	0.0300	0.0300		RQ
PCB-89	30:11						0.0280	0.0280		
PCB-121	30:34						0.0169	0.0169		
PCB-92	30:59	2723	1.55	0.8546	0.0953	0.0835	0.0256	0.0256		RQM
PCB-90	31:33	9915	1.64	0.9550	0.2722	0.2722	0.0229	0.0229		M
PCB-101 (C90)	31:33	9915	1.64	0.9550	0.2722	0.2722	0.0229	0.0229		M
PCB-113 (C90)	31:33	9915	1.64	0.9550	0.2722	0.2722	0.0229	0.0229		M
PCB-83	32:07	4855	1.68	0.8385	0.1518	0.1518	0.0261	0.0261		
PCB-99 (C83)	32:07	4855	1.68	0.8385	0.1518	0.1518	0.0261	0.0261		
PCB-112	32:14						0.0155	0.0155		
PCB-86	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-87 (C86)	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-97 (C86)	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-109 (C86)	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-119 (C86)	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-125 (C86)	32:38	4217	1.55	1.0473	0.2242	0.1056	0.0209	0.0209		RQ
PCB-85	33:21	2741	1.69	1.0408	0.0690	0.0690	0.0210	0.0210		
PCB-116 (C85)	33:21	2741	1.69	1.0408	0.0690	0.0690	0.0210	0.0210		
PCB-117 (C85)	33:21	2741	1.69	1.0408	0.0690	0.0690	0.0210	0.0210		
PCB-110	33:31	8025	1.55	1.1919	0.1997	0.1765	0.0184	0.0184		RQ
PCB-115 (C110)	33:31	8025	1.55	1.1919	0.1997	0.1765	0.0184	0.0184		RQ
PCB-82	33:51						0.0263	0.0263		
PCB-111	34:12						0.0180	0.0180		
PCB-120	34:40						0.0148	0.0148		
PCB-108	35:49						0.0285	0.0285		
PCB-124 (C108)	35:49						0.0285	0.0285		
PCB-107	36:04						0.0268	0.0268		
PCB-123	36:11						0.0310	0.0310		
PCB-106	36:18						0.0299	0.0299		
PCB-118	36:31	9033	1.35	1.2055	0.1392	0.1392	0.0262	0.0262		M
PCB-122	36:52						0.0339	0.0339		
PCB-114	37:02						0.0267	0.0267		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41	5597	1.55	1.1879	0.1069	0.0928	0.0283	0.0283		RQM
PCB-127	39:09						0.0285	0.0285		
PCB-126	40:47						0.0324	0.0324		
S Total Hexachlorobiphenyls					0.3907	0.3154	0.007918	0.007918		RQ
D PCB-155L	31:16	3157132	1.27	1.0851	87.3	87.3	0.0605	0.0605	87.32	
\$ PCB-153L	38:19	2145490	1.28	0.9169	51.8	51.8	0.9311	0.9311	104	
* PCB-138L	39:35	3958148	1.25		100.0	100.0				
D PCB-167L	42:34	4350483	1.27	1.2572	87.4	87.4	0.5988	0.5988	87.42	
D PCB-156L	43:44	9288404	1.27	1.2106	193.8	193.8	0.6219	0.6219	96.92	
D PCB-157L (C156L)	43:44	9288404	1.27	1.2106	193.8	193.8	0.6219	0.6219	96.92	
D PCB-169L	46:57	4428507	1.29	1.2439	89.9	89.9	0.6053	0.6053	89.95	
PCB-155	31:17						0.002462	0.002462		
PCB-152	31:31						0.002350	0.002350		
PCB-150	31:40						0.002295	0.002295		
PCB-136	32:05	285	1.24	1.0116	0.0209	0.008924	0.002299	0.002299		RQ
PCB-145	32:20						0.002401	0.002401		
PCB-148	33:50						0.003059	0.003059		
PCB-135	34:26						0.003205	0.003205		
PCB-151 (C135)	34:26						0.003205	0.003205		
PCB-154	34:41						0.002861	0.002861		
PCB-144	35:00						0.002962	0.002962		
PCB-147	35:22	3347	1.24	0.8950	0.1152	0.0828	0.0105	0.0105		RQM
PCB-149 (C147)	35:22	3347	1.24	0.8950	0.1152	0.0828	0.0105	0.0105		RQM
PCB-134	35:40						0.0118	0.0118		
PCB-143 (C134)	35:40						0.0118	0.0118		
PCB-139	35:57						0.0108	0.0108		
PCB-140 (C139)	35:57						0.0108	0.0108		
PCB-131	36:10						0.0126	0.0126		
PCB-142	36:19						0.0126	0.0126		
PCB-132	36:38	2559	1.16	0.7489	0.0756	0.0756	0.0126	0.0126		
PCB-133	37:07						0.0117	0.0117		
PCB-165	37:30						0.009211	0.009211		
PCB-146	37:45						0.009795	0.009795		
PCB-161	37:53						0.008362	0.008362		
PCB-153	38:19	3990	1.21	1.0938	0.0808	0.0808	0.008630	0.008630		M
PCB-168 (C153)	38:19	3990	1.21	1.0938	0.0808	0.0808	0.008630	0.008630		M
PCB-141	38:34						0.0108	0.0108		
PCB-130	38:59						0.0134	0.0134		
PCB-137	39:11						0.0122	0.0122		
PCB-164	39:19						0.009091	0.009091		
PCB-129	39:35	2877	1.24	0.9464	0.0982	0.0673	0.0100	0.0100		RQ
PCB-138 (C129)	39:35	2877	1.24	0.9464	0.0982	0.0673	0.0100	0.0100		RQ
PCB-160 (C129)	39:35	2877	1.24	0.9464	0.0982	0.0673	0.0100	0.0100		RQ
PCB-163 (C129)	39:35	2877	1.24	0.9464	0.0982	0.0673	0.0100	0.0100		RQ
PCB-158	40:00						0.007200	0.007200		
PCB-128	40:51						0.009603	0.009603		
PCB-166 (C128)	40:51						0.009603	0.009603		
PCB-159	41:50						0.006812	0.006812		
PCB-162	42:08						0.007509	0.007509		
PCB-167	42:36						0.007186	0.007186		
PCB-156	43:46						0.0101	0.0101		
PCB-157 (C156)	43:46						0.0101	0.0101		
PCB-169	46:59						0.007160	0.007160		
S Total Heptachlorobiphenyls					0.0454	0.0353	0.002173	0.002173		RQ
D PCB-188L	36:59	3763219	1.07	1.3133	99.6	99.6	0.0464	0.0464	99.56	
\$ PCB-178L	40:02	2479853	1.07	1.0313	83.5	83.5	0.0591	0.0591	83.54	
* PCB-180L	45:06	2878186	1.06		100.0	100.0				
D PCB-170L	46:22	2215292	1.05	0.8362	92.0	92.0	0.0729	0.0729	92.04	
D PCB-189L	49:28	4839380	1.06	1.4414	94.1	94.1	0.4728	0.4728	94.06	
PCB-188	37:01						0.001176	0.001176		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22						0.001193	0.001193		
PCB-184	37:52						0.001246	0.001246		
PCB-176	38:14						0.001381	0.001381		
PCB-186	38:42						0.001156	0.001156		
PCB-178	40:04						0.001904	0.001904		
PCB-175	40:42						0.001788	0.001788		
PCB-187	40:58						0.001546	0.001546		
PCB-182	41:09						0.001842	0.001842		
PCB-183	41:34	1038	1.05	0.9825	0.0454	0.0353	0.001733	0.001733		RQ
PCB-185 (C183)	41:34	1038	1.05	0.9825	0.0454	0.0353	0.001733	0.001733		RQ
PCB-174	41:50						0.001766	0.001766		
PCB-177	42:16						0.001743	0.001743		
PCB-181	42:39						0.001792	0.001792		
PCB-171	42:52						0.001824	0.001824		
PCB-173 (C171)	42:52						0.001824	0.001824		
PCB-172	44:30						0.001999	0.001999		
PCB-192	44:45						0.001265	0.001265		
PCB-180	45:06						0.001459	0.001459		
PCB-193 (C180)	45:06						0.001459	0.001459		
PCB-191	45:30						0.001321	0.001321		
PCB-170	46:25						0.001983	0.001983		
PCB-190	46:55						0.001278	0.001278		
PCB-189	49:30						0.0142	0.0142		
S Total Octachlorobiphenyls					0.0466	0.0466	0.005907	0.005907		
D PCB-202L	42:20	2504508	0.92	0.9818	88.6	88.6	0.0470	0.0470	88.63	
* PCB-194L	51:34	3569284	0.91		100.0	100.0				
D PCB-205L	52:02	4040215	0.90	1.1786	96.0	96.0	0.0502	0.0502	96.05	
PCB-202	42:23						0.004873	0.004873		
PCB-201	43:17						0.005175	0.005175		
PCB-204	43:57						0.004814	0.004814		
PCB-197	44:11						0.004405	0.004405		
PCB-200	44:19						0.005011	0.005011		
PCB-198	47:04						0.005803	0.005803		
PCB-199 (C198)	47:04						0.005803	0.005803		
PCB-196	47:44	912	0.90	0.7806	0.0466	0.0466	0.006466	0.006466		
PCB-203	47:56						0.005432	0.005432		
PCB-195	49:16						0.008817	0.008817		
PCB-194	51:36						0.007484	0.007484		
PCB-205	52:04						0.006698	0.006698		
S Total Nonachlorobiphenyls							0.0191	0.0191		
D PCB-208L	48:59	3229772	0.79	0.9576	94.5	94.5	0.2610	0.2610	94.49	
D PCB-206L	53:47	2471657	0.84	0.6947	99.7	99.7	0.3598	0.3598	99.68	
PCB-208	49:02						0.0167	0.0167		
PCB-207	49:57						0.0158	0.0158		
PCB-206	53:50						0.0191	0.0191		RQU
D PCB-209L	55:23	2637180	0.72	0.6669	110.8	110.8	0.0844	0.0844	111	
DCB Decachlorobiphenyl	55:26						0.009210	0.009210		
S Polychlorinated biphenyls, Total					35.7		0.0229	0.0229		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
 Lims ID: 140-37232-A-8-D
 Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
 Sample Type: Client
 Inject. Date: 16-Jul-2024 10:05:00 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033514-013
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 17-Jul-2024 01:59:02 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:59:02

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:39	-2	0.726	4729865	1813015	1165	2912	1556		
202.0766	11:36	11:39	-2	0.726	1466019	561642	2988	7470	188	3.23(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:48	-2	0.859	5408427	1707690	1165	2912	1466		
202.0766	13:45	13:48	-2	0.859	1765994	553382	2988	7470	185	3.06(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	-1	1.001	17325	6297	119	297	53		M
190.0363	11:37	11:37	-1	1.001	6107	1878	206	515	9	2.84(2.66-3.60)	M
PCB-2											
188.0393	13:35	13:37	-1	0.989	12856	3852	119	297	32		
190.0363	13:35	13:37	-2	0.988	4596	1539	206	515	7	2.80(2.66-3.60)	
PCB-3											
188.0393	13:46	13:46	-2	1.001	20163	6084	119	297	51		M
190.0363	13:46	13:46	-1	1.002	6652	2083	206	515	10	3.03(2.66-3.60)	M
PCB-4L											
234.0406	14:00	14:03	-2	0.875	1771284	569971	541	1352	1054		
236.0376	14:00	14:03	-2	0.875	1135462	362986	199	497	1824	1.56(1.33-1.79)	
PCB-9L											
234.0406	16:00	15:59	1		4015693	935057	541	1352	1728		
236.0376	16:00	15:59	1		2522792	591445	199	497	2972	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	3	1.206	1547081	247881	541	1352	458		a
236.0376	16:52	16:52	3	1.206	916244	149168	199	497	750	1.69(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:04	20:07	11	1.255	3280531	612500	541	1352	1132		
236.0376	20:04	20:07	11	1.255	1987841	365964	199	497	1839	1.65(1.33-1.79)	
PCB-4											
222.0003	14:01	14:01	-2	1.001	7289	2725	134	335	20		RQM
223.9974	14:01	14:01	-2	1.001	6465	1939	184	460	11	1.13(1.33-1.79)	M
Empc Correction					4672	1746	184	460	9		
PCB-10											
222.0003	14:11						134	335			
223.9974	14:11						184	460			
PCB-9											
222.0003	15:57						134	335			
223.9974	15:57						184	460			
PCB-7											
222.0003	16:09	16:13	0	1.154	11759	1979	134	335	15		
223.9974	16:11	16:13	2	1.156	7841	1826	184	460	10	1.50(1.33-1.79)	
PCB-6											
222.0003	16:26	16:26	2	1.174	11023	2134	134	335	16		RQa
Empc Correction					9221	1935	134	335	14		a
223.9974	16:28	16:26	4	1.177	5911	1241	184	460	7	1.86(1.33-1.79)	
PCB-5											
222.0003	16:40						134	335			
223.9974	16:40						184	460			
PCB-8											
222.0003	16:54	16:54	4	1.208	29090	4578	134	335	34		RQa
Empc Correction					24747	4508	134	335	34		a
223.9974	16:55	16:54	5	1.208	15864	2890	184	460	16	1.83(1.33-1.79)	
PCB-14											
222.0003	18:36						134	335			
223.9974	18:36						184	460			
PCB-11											
222.0003	19:29	19:32	13	0.971	271071	55008	134	335	411		
223.9974	19:30	19:32	13	0.972	172191	35465	184	460	193	1.57(1.33-1.79)	
PCB-12											
222.0003	19:43	19:42	7	0.982	8719	1302	134	335	10		RQM
223.9974	19:42	19:42	6	0.982	12820	1590	184	460	9	0.68(1.33-1.79)	M
Empc Correction					5589	834	184	460	5		
PCB-13 (C12)											
222.0003	19:43	19:42	7	0.982	8719	1302	134	335	10		RQM
223.9974	19:42	19:42	6	0.982	12820	1590	184	460	9	0.68(1.33-1.79)	M
Empc Correction					5589	834	184	460	5		
PCB-15											
222.0003	20:05	20:05	12	1.001	13168	2202	134	335	16		RQM
223.9974	20:06	20:05	13	1.002	10631	1717	184	460	9	1.24(1.33-1.79)	M
Empc Correction					8441	1411	184	460	8		
PCB-19L											
268.0016	17:11	17:07	4	0.838	1027999	204959	724	1810	283		
269.9986	17:11	17:07	4	0.838	941422	189030	383	957	494	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:30	20:20	9		2142079	537045	724	1810	742		a
269.9986	20:30	20:20	9		2016252	504274	383	957	1317	1.06(0.88-1.20)	a
PCB-31L											
268.0016	22:40	22:35	5		5928175	1430058	899	2247	1591		
269.9986	22:40	22:35	5		5633952	1364056	502	1255	2717	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:57	4	1.012	4628008	1079864	899	2247	1201		
269.9986	22:57	22:57	4	1.012	4451100	1029986	502	1255	2052	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:58	1	1.187	3777045	742233	899	2247	826		
269.9986	26:53	26:58	1	1.187	3514025	710571	502	1255	1415	1.07(0.88-1.20)	
PCB-19											
255.9613	17:12						58	145			
257.9584	17:12						38	95			
PCB-18											
255.9613	19:13	19:13	17	1.118	11719	2484	58	145	43		M
257.9584	19:13	19:13	18	1.119	12484	2152	38	95	57	0.94(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:13	19:13	17	1.118	11719	2484	58	145	43		M
257.9584	19:13	19:13	18	1.119	12484	2152	38	95	57	0.94(0.88-1.20)	M
PCB-17											
255.9613	19:35	19:35	11	1.139	7551	1736	58	145	30		RQa
257.9584	19:34	19:35	10	1.138	10835	2254	38	95	59	0.70(0.88-1.20)	a
	Empc Correction				7260	1669	38	95	44		
PCB-27											
255.9613	19:46	19:46	9	1.151	1938	396	58	145	7		RQa
257.9584	19:48	19:46	11	1.152	2866	558	38	95	15	0.68(0.88-1.20)	a
	Empc Correction				1863	380	38	95	10		
PCB-24											
255.9613	19:48						58	145			RQU
257.9584	19:48						38	95			
PCB-16											
255.9613	20:01	20:01	9	1.165	5606	1170	58	145	20		RQM a
	Empc Correction				4493	1184	58	145	20		a
257.9584	20:01	20:01	9	1.164	4321	1139	38	95	30	1.30(0.88-1.20)	M
PCB-32											
255.9613	20:31	20:31	9	1.193	8681	2129	58	145	37		RQM a
	Empc Correction				7482	2437	58	145	42		M
257.9584	20:31	20:31	9	1.193	7195	2344	38	95	62	1.21(0.88-1.20)	M
PCB-34											
255.9613	21:41						130	325			
257.9584	21:41						132	330			
PCB-23											
255.9613	21:50						130	325			
257.9584	21:50						132	330			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:09	22:10	5	1.289	9200	2362	130	325	18		
257.9584	22:07	22:10	3	1.287	18461	3134	132	330	24	0.50(0.88-1.20)	
Empc Correction					8846	2271	132	330	17		
PCB-29 (C26)											RQ
255.9613	22:09	22:10	5	1.289	9200	2362	130	325	18		
257.9584	22:07	22:10	3	1.287	18461	3134	132	330	24	0.50(0.88-1.20)	
Empc Correction					8846	2271	132	330	17		
PCB-25											a
255.9613	22:23	22:23	5	0.832	8960	2032	130	325	16		a
257.9584	22:22	22:23	4	0.832	9803	1907	132	330	14	0.91(0.88-1.20)	
PCB-31											a
255.9613	22:41	22:41	5	0.844	76993	18084	130	325	139		a
257.9584	22:41	22:41	5	0.844	72006	17163	132	330	130	1.07(0.88-1.20)	
PCB-20											
255.9613	22:58	22:56	3	0.854	74026	16385	130	325	126		
257.9584	22:57	22:56	2	0.854	75964	14711	132	330	111	0.97(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:56	3	0.854	74026	16385	130	325	126		
257.9584	22:57	22:56	2	0.854	75964	14711	132	330	111	0.97(0.88-1.20)	
PCB-21											RQa
255.9613	23:13	23:13	8	0.863	40431	9126	130	325	70		a
257.9584	23:13	23:13	8	0.863	55579	9922	132	330	75	0.73(0.88-1.20)	
Empc Correction					38875	8775	132	330	66		
PCB-33 (C21)											RQa
255.9613	23:13	23:13	8	0.863	40431	9126	130	325	70		a
257.9584	23:13	23:13	8	0.863	55579	9922	132	330	75	0.73(0.88-1.20)	
Empc Correction					38875	8775	132	330	66		
PCB-22											
255.9613	23:36	23:39	3	0.877	24471	5144	130	325	40		
257.9584	23:36	23:39	4	0.878	27637	5117	132	330	39	0.89(0.88-1.20)	
PCB-36											
255.9613	25:05						130	325			
257.9584	25:05						132	330			
PCB-39											
255.9613	25:28						130	325			
257.9584	25:28						132	330			
PCB-38											
255.9613	26:01						130	325			
257.9584	26:01						132	330			
PCB-35											
255.9613	26:30	26:32	0	0.985	4443	806	130	325	6		
257.9584	26:30	26:32	1	0.986	5074	1319	132	330	10	0.88(0.88-1.20)	
PCB-37											
255.9613	26:56	26:55	1	1.001	10724	1747	130	325	13		
257.9584	26:56	26:55	1	1.001	9193	2243	132	330	17	1.17(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:21	20:24	10	0.822	995909	225730	150	375	1505	0.82(0.65-0.89)	
303.9597	20:21	20:24	10	0.822	1207190	265153	46	115	5764		
PCB-52L											
301.9626	24:45	24:42	2		2442584	566273	1116	2790	507	0.79(0.65-0.89)	
303.9597	24:45	24:42	2		3103877	723789	959	2397	755		
PCB-79L											
301.9626	32:36	32:37	0	0.970	1463359	284828	1116	2790	255	0.81(0.65-0.89)	
303.9597	32:36	32:37	0	0.970	1802646	353509	959	2397	369		
PCB-81L											
301.9626	33:36	33:39	0	1.358	2378407	453805	1116	2790	407	0.81(0.65-0.89)	
303.9597	33:36	33:39	0	1.358	2934578	571114	959	2397	596		
PCB-77L											
301.9626	34:10	34:14	-1	1.381	2532296	466328	1116	2790	418	0.81(0.65-0.89)	
303.9597	34:10	34:14	-1	1.381	3134725	586199	959	2397	611		
PCB-54											
289.9224	20:12						8	20			
291.9194	20:12						26	65			
PCB-50											
289.9224	22:24	22:24	3	1.101	6186	1786	43	107	42		RQa
291.9194	22:25	22:24	4	1.101	10044	2462	122	305	20	0.62(0.65-0.89)	a
	Empc Correction				8033	2319	122	305	19		
PCB-53 (C50)											
289.9224	22:24	22:24	3	1.101	6186	1786	43	107	42		RQa
291.9194	22:25	22:24	4	1.101	10044	2462	122	305	20	0.62(0.65-0.89)	a
	Empc Correction				8033	2319	122	305	19		
PCB-45											
289.9224	23:08	23:08	3	1.137	32450	6941	43	107	161		a
291.9194	23:09	23:08	4	1.137	47953	10833	122	305	89	0.68(0.65-0.89)	a
PCB-51 (C45)											
289.9224	23:08	23:08	3	1.137	32450	6941	43	107	161		a
291.9194	23:09	23:08	4	1.137	47953	10833	122	305	89	0.68(0.65-0.89)	a
PCB-46											
289.9224	23:23	23:23	2	1.149	2533	860	43	107	20		RQa
291.9194	23:23	23:23	2	1.149	4050	698	122	305	6	0.63(0.65-0.89)	a
	Empc Correction				3289	1116	122	305	9		
PCB-52											
289.9224	24:45	24:45	1	1.216	30427	7085	43	107	165		a
291.9194	24:45	24:45	1	1.216	38714	9533	122	305	78	0.79(0.65-0.89)	a
PCB-43											
289.9224	25:05						43	107			
291.9194	25:05						122	305			
PCB-73 (C43)											
289.9224	25:05						43	107			
291.9194	25:05						122	305			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											RQa
289.9224	25:14	25:14	5	1.240	16574	3508	43	107	82		a
291.9194	25:15	25:14	6	1.241	26584	5341	122	305	44	0.62(0.65-0.89)	
Empc Correction					21524	4555	122	305	37		
PCB-69 (C49)											RQa
289.9224	25:14	25:14	5	1.240	16574	3508	43	107	82		a
291.9194	25:15	25:14	6	1.241	26584	5341	122	305	44	0.62(0.65-0.89)	
Empc Correction					21524	4555	122	305	37		
PCB-48											RQMa
289.9224	25:31	25:32	1	1.253	5625	1330	43	107	31		a
291.9194	25:32	25:32	3	1.255	13033	2557	122	305	21	0.43(0.65-0.89)	M
Empc Correction					7305	1727	122	305	14		
PCB-44											a
289.9224	25:46	25:46	2	1.266	114441	24773	43	107	576		a
291.9194	25:46	25:46	2	1.266	149039	33309	122	305	273	0.77(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:46	25:46	2	1.266	114441	24773	43	107	576		a
291.9194	25:46	25:46	2	1.266	149039	33309	122	305	273	0.77(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:46	25:46	2	1.266	114441	24773	43	107	576		a
291.9194	25:46	25:46	2	1.266	149039	33309	122	305	273	0.77(0.65-0.89)	
PCB-59											a
289.9224	26:06	26:06	3	1.282	3078	662	43	107	15		a
291.9194	26:04	26:06	1	1.281	4669	939	122	305	8	0.66(0.65-0.89)	
PCB-62 (C59)											a
289.9224	26:06	26:06	3	1.282	3078	662	43	107	15		a
291.9194	26:04	26:06	1	1.281	4669	939	122	305	8	0.66(0.65-0.89)	
PCB-75 (C59)											a
289.9224	26:06	26:06	3	1.282	3078	662	43	107	15		a
291.9194	26:04	26:06	1	1.281	4669	939	122	305	8	0.66(0.65-0.89)	
PCB-42											RQMa
289.9224	26:15	26:15	0	1.290	4443	1211	43	107	28		a
291.9194	26:15	26:15	0	1.290	8179	1859	122	305	15	0.54(0.65-0.89)	M
Empc Correction					5770	1572	122	305	13		
PCB-40											M
289.9224	26:47	26:47	1	1.316	11030	1733	43	107	40		M
291.9194	26:47	26:47	1	1.316	15086	2927	122	305	24	0.73(0.65-0.89)	M
PCB-41 (C40)											M
289.9224	26:47	26:47	1	1.316	11030	1733	43	107	40		M
291.9194	26:47	26:47	1	1.316	15086	2927	122	305	24	0.73(0.65-0.89)	M
PCB-71 (C40)											M
289.9224	26:47	26:47	1	1.316	11030	1733	43	107	40		M
291.9194	26:47	26:47	1	1.316	15086	2927	122	305	24	0.73(0.65-0.89)	M
PCB-64											Ma
289.9224	26:58	26:59	1	1.325	13129	2975	43	107	69		a
291.9194	26:59	26:59	1	1.326	19172	4082	122	305	33	0.68(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-72											
289.9224	27:46						43	107			
291.9194	27:46						122	305			
PCB-68											
289.9224	28:05	28:04	1	0.836	21342	4854	43	107	113		M
291.9194	28:04	28:04	0	0.835	26420	5389	122	305	44	0.81(0.65-0.89)	M
PCB-57											
289.9224	28:30						43	107			
291.9194	28:30						122	305			
PCB-58											
289.9224	28:44						43	107			
291.9194	28:44						122	305			
PCB-67											
289.9224	28:53						43	107			
291.9194	28:53						122	305			
PCB-63											
289.9224	29:09						43	107			
291.9194	29:09						122	305			
PCB-61											
289.9224	29:30	29:30	0	0.878	32785	5072	43	107	118		
291.9194	29:30	29:30	0	0.878	40397	6385	122	305	52	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:30	29:30	0	0.878	32785	5072	43	107	118		
291.9194	29:30	29:30	0	0.878	40397	6385	122	305	52	0.81(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:30	29:30	0	0.878	32785	5072	43	107	118		
291.9194	29:30	29:30	0	0.878	40397	6385	122	305	52	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:30	29:30	0	0.878	32785	5072	43	107	118		
291.9194	29:30	29:30	0	0.878	40397	6385	122	305	52	0.81(0.65-0.89)	
PCB-66											
289.9224	29:48	29:49	-1	0.887	16684	3154	43	107	73		M
291.9194	29:49	29:49	0	0.887	21953	4853	122	305	40	0.76(0.65-0.89)	M
PCB-55											
289.9224	29:57	29:57	-2	0.892	1212	408	43	107	9		RQMa
291.9194	29:57	29:57	-2	0.892	3002	742	122	305	6	0.40(0.65-0.89)	M
	Empc Correction				1574	529	122	305	4		
PCB-56											
289.9224	30:30	30:30	1	0.908	7433	1350	43	107	31		RQM
291.9194	30:30	30:30	1	0.908	14438	2820	122	305	23	0.51(0.65-0.89)	M
	Empc Correction				9653	1753	122	305	14		
PCB-60											
289.9224	30:42	30:43	0	0.914	4266	830	43	107	19		RQ
291.9194	30:43	30:43	1	0.914	7651	1325	122	305	11	0.56(0.65-0.89)	
	Empc Correction				5540	1077	122	305	9		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-80											
289.9224	31:06						43	107			
291.9194	31:06						122	305			
PCB-79											
289.9224	32:38						43	107			
291.9194	32:38						122	305			
PCB-78											
289.9224	33:11						43	107			
291.9194	33:11						122	305			
PCB-81											
289.9224	33:37						43	107			
291.9194	33:37						122	305			
PCB-77											
289.9224	34:18						43	107			
291.9194	34:18						122	305			
PCB-104L											
337.9207	25:40	25:38	1	0.814	2327353	520283	116	290	4485		
339.9178	25:40	25:38	1	0.814	1487208	334678	84	210	3984	1.56(1.32-1.78)	
PCB-95L											
337.9207	28:37	28:36	1	1.115	961205	204782	116	290	1765		
339.9178	28:37	28:36	1	1.115	609838	129791	84	210	1545	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2060665	426062	116	290	3673		
339.9178	31:31	31:31	0		1271211	255284	84	210	3039	1.62(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:11	-1	1.084	2273934	444987	116	290	3836		
339.9178	34:11	34:11	0	1.085	1441274	281539	84	210	3352	1.58(1.32-1.78)	
PCB-123L											
337.9207	36:08	36:09	-1	1.147	3149902	612275	3239	8097	189		
339.9178	36:09	36:09	0	1.147	1985438	379130	1827	4567	208	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:29	-1	1.157	3314689	646372	3239	8097	200		
339.9178	36:28	36:29	-1	1.157	2069273	399824	1827	4567	219	1.60(1.32-1.78)	
PCB-114L											
337.9207	36:59	37:00	-1	1.174	3491639	701145	3239	8097	216		
339.9178	36:59	37:00	-1	1.174	2181921	437616	1827	4567	240	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	-1	1.195	3139299	606358	3239	8097	187		
339.9178	37:39	37:40	-2	1.195	1935835	374271	1827	4567	205	1.62(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3484263	647784	3239	8097	200		
339.9178	39:06	39:07	-1		2222202	425557	1827	4567	233	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:44	40:45	-1	1.292	3103422	571007	3239	8097	176		
339.9178	40:44	40:45	-1	1.292	1942572	356603	1827	4567	195	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104											
325.8804	25:41						63	157			
327.8775	25:41						12	30			
PCB-96											
325.8804	26:04						63	157			
327.8775	26:04						12	30			
PCB-103											
325.8804	27:59						63	157			
327.8775	27:59						12	30			
PCB-94											
325.8804	28:13						63	157			
327.8775	28:13						12	30			
PCB-95											
325.8804	28:37	28:37	-1	1.115	4674	1087	63	157	17		RQM
327.8775	28:38	28:37	1	1.116	3864	1121	12	30	93	1.21(1.32-1.78)	M
	Empc Correction				3015	701	12	30	58		
PCB-93											
325.8804	28:48	28:48	-2	1.122	1449	412	63	157	7		RQM
	Empc Correction				553	313	63	157	5		M
327.8775	28:49	28:48	-1	1.123	357	202	12	30	17	4.06(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:48	28:48	-2	1.122	1449	412	63	157	7		RQM
	Empc Correction				553	313	63	157	5		M
327.8775	28:49	28:48	-1	1.123	357	202	12	30	17	4.06(1.32-1.78)	
PCB-98											
325.8804	29:01						63	157			
327.8775	29:01						12	30			
PCB-102 (C98)											
325.8804	29:01						63	157			
327.8775	29:01						12	30			
PCB-88											
325.8804	29:31						63	157			
327.8775	29:31						12	30			
PCB-91 (C88)											
325.8804	29:31						63	157			
327.8775	29:31						12	30			
PCB-84											
325.8804	29:44	29:47	0	1.158	2625	891	63	157	14		RQ
	Empc Correction				1199	368	63	157	6		
327.8775	29:45	29:47	1	1.159	774	238	12	30	20	3.39(1.32-1.78)	
PCB-89											
325.8804	30:13						63	157			
327.8775	30:13						12	30			
PCB-121											
325.8804	30:38						63	157			
327.8775	30:38						12	30			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-92											RQM
325.8804	30:59	30:59	1	0.857	2039	667	63	157	11		M
	Empc Correction				1655	370	63	157	6		
327.8775	30:56	30:59	-2	0.856	1068	239	12	30	20	1.91(1.32-1.78)	
PCB-90											M
325.8804	31:33	31:33	2	1.230	6154	1290	63	157	20		M
327.8775	31:33	31:33	2	1.230	3761	905	12	30	75	1.64(1.32-1.78)	
PCB-101 (C90)											M
325.8804	31:33	31:33	2	1.230	6154	1290	63	157	20		M
327.8775	31:33	31:33	2	1.230	3761	905	12	30	75	1.64(1.32-1.78)	
PCB-113 (C90)											M
325.8804	31:33	31:33	2	1.230	6154	1290	63	157	20		M
327.8775	31:33	31:33	2	1.230	3761	905	12	30	75	1.64(1.32-1.78)	
PCB-83											
325.8804	32:07	32:10	0	1.252	3044	657	63	157	10		
327.8775	32:08	32:10	1	1.252	1811	472	12	30	39	1.68(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:10	0	1.252	3044	657	63	157	10		
327.8775	32:08	32:10	1	1.252	1811	472	12	30	39	1.68(1.32-1.78)	
PCB-112											
325.8804	32:16						63	157			
327.8775	32:16						12	30			
PCB-86											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	
PCB-87 (C86)											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	
PCB-97 (C86)											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	
PCB-109 (C86)											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	
PCB-119 (C86)											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	
PCB-125 (C86)											RQ
325.8804	32:38	32:45	1	1.271	7304	943	63	157	15		
	Empc Correction				2563	471	63	157	7		
327.8775	32:37	32:45	1	1.271	1654	304	12	30	25	4.42(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-85											
325.8804	33:21	33:24	1	1.299	1723	572	63	157	9		
327.8775	33:22	33:24	3	1.300	1018	456	12	30	38	1.69(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:21	33:24	1	1.299	1723	572	63	157	9		
327.8775	33:22	33:24	3	1.300	1018	456	12	30	38	1.69(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:21	33:24	1	1.299	1723	572	63	157	9		
327.8775	33:22	33:24	3	1.300	1018	456	12	30	38	1.69(1.32-1.78)	
PCB-110											
325.8804	33:31	33:32	-2	1.306	4878	809	63	157	13		RQ
327.8775	33:32	33:32	-1	1.307	4203	1051	12	30	88	1.16(1.32-1.78)	
Empc Correction					3147	521	12	30	43		
PCB-115 (C110)											
325.8804	33:31	33:32	-2	1.306	4878	809	63	157	13		RQ
327.8775	33:32	33:32	-1	1.307	4203	1051	12	30	88	1.16(1.32-1.78)	
Empc Correction					3147	521	12	30	43		
PCB-82											
325.8804	33:53						63	157			
327.8775	33:53						12	30			
PCB-111											
325.8804	34:14						63	157			
327.8775	34:14						12	30			
PCB-120											
325.8804	34:42						63	157			
327.8775	34:42						12	30			
PCB-108											
325.8804	35:51						100	250			
327.8775	35:51						32	80			
PCB-124 (C108)											
325.8804	35:51						100	250			
327.8775	35:51						32	80			
PCB-107											
325.8804	36:06						100	250			
327.8775	36:06						32	80			
PCB-123											
325.8804	36:10						100	250			
327.8775	36:10						32	80			
PCB-106											
325.8804	36:17						100	250			
327.8775	36:17						32	80			
PCB-118											
325.8804	36:31	36:31	1	1.001	5196	804	100	250	8		M
327.8775	36:30	36:31	0	1.001	3837	841	32	80	26	1.35(1.32-1.78)	M
PCB-122											
325.8804	36:51						100	250			
327.8775	36:51						32	80			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114											
325.8804	37:01						100	250			
327.8775	37:01						32	80			
PCB-105											
325.8804	37:41	37:40	0	1.001	4249	881	100	250	9		RQM
	Empc Correction				3402	1122	100	250	11		M
327.8775	37:40	37:40	-2	1.000	2195	724	32	80	23	1.94(1.32-1.78)	M
PCB-127											
325.8804	39:08						100	250			
327.8775	39:08						32	80			
PCB-126											
325.8804	40:46						100	250			
327.8775	40:46						32	80			
PCB-155L											
371.8817	31:16	31:15	0	0.790	1767916	357346	79	197	4523		
373.8788	31:16	31:15	0	0.790	1389216	287680	100	250	2877	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:19	38:19	-1	0.900	1204257	230416	1330	3325	173		
373.8788	38:20	38:19	0	0.900	941233	187400	1094	2735	171	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:35	39:36	-1		2199176	446931	1330	3325	336		
373.8788	39:35	39:36	-1		1758972	358013	1094	2735	327	1.25(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:34	-1	1.076	2433159	464557	1330	3325	349		
373.8788	42:34	42:34	-1	1.076	1917324	370954	1094	2735	339	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:43	0	1.105	5198468	671624	1330	3325	505		
373.8788	43:44	43:43	0	1.105	4089936	527439	1094	2735	482	1.27(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:43	0	1.105	5198468	671624	1330	3325	505		
373.8788	43:44	43:43	0	1.105	4089936	527439	1094	2735	482	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:57	0	1.187	2495570	457025	1330	3325	344		
373.8788	46:57	46:57	0	1.187	1932937	347690	1094	2735	318	1.29(1.05-1.43)	
PCB-155											
359.8415	31:19						3	7			
361.8385	31:19						3	7			
PCB-152											
359.8415	31:31						3	7			
361.8385	31:31						3	7			
PCB-150											
359.8415	31:40						3	7			
361.8385	31:40						3	7			
PCB-136											
359.8415	32:05	32:06	2	1.027	158	64	3	7	21		RQ
361.8385	32:08	32:06	4	1.028	511	264	3	7	88	0.31(1.05-1.43)	
	Empc Correction				127	51	3	7	17		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-145											
359.8415	32:20						3	7			
361.8385	32:20						3	7			
PCB-148											
359.8415	33:50						3	7			
361.8385	33:50						3	7			
PCB-135											
359.8415	34:26						3	7			
361.8385	34:26						3	7			
PCB-151 (C135)											
359.8415	34:26						3	7			
361.8385	34:26						3	7			
PCB-154											
359.8415	34:40						3	7			
361.8385	34:40						3	7			
PCB-144											
359.8415	35:00						3	7			
361.8385	35:00						3	7			
PCB-147											
359.8415	35:22	35:19	0	1.131	1853	638	19	47	34		RQM
361.8385	35:19	35:19	-3	1.130	2803	745	8	20	93	0.66(1.05-1.43)	M
Empc Correction					1494	514	8	20	64		
PCB-149 (C147)											
359.8415	35:22	35:19	0	1.131	1853	638	19	47	34		RQM
361.8385	35:19	35:19	-3	1.130	2803	745	8	20	93	0.66(1.05-1.43)	M
Empc Correction					1494	514	8	20	64		
PCB-134											
359.8415	35:40						19	47			
361.8385	35:40						8	20			
PCB-143 (C134)											
359.8415	35:40						19	47			
361.8385	35:40						8	20			
PCB-139											
359.8415	35:57						19	47			
361.8385	35:57						8	20			
PCB-140 (C139)											
359.8415	35:57						19	47			
361.8385	35:57						8	20			
PCB-131											
359.8415	36:10						19	47			
361.8385	36:10						8	20			
PCB-142											
359.8415	36:18						19	47			
361.8385	36:18						8	20			
PCB-132											
359.8415	36:38	36:39	0	1.172	1376	438	19	47	23		
361.8385	36:39	36:39	1	1.172	1183	344	8	20	43	1.16(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-133											
359.8415	37:07						19	47			
361.8385	37:07						8	20			
PCB-165											
359.8415	37:29						19	47			
361.8385	37:29						8	20			
PCB-146											
359.8415	37:44						19	47			
361.8385	37:44						8	20			
PCB-161											
359.8415	37:52						19	47			
361.8385	37:52						8	20			
PCB-153											
359.8415	38:19	38:22	-4	0.900	2186	717	19	47	38		M
361.8385	38:22	38:22	-1	0.901	1804	431	8	20	54	1.21(1.05-1.43)	M
PCB-168 (C153)											
359.8415	38:19	38:22	-4	0.900	2186	717	19	47	38		M
361.8385	38:22	38:22	-1	0.901	1804	431	8	20	54	1.21(1.05-1.43)	M
PCB-141											
359.8415	38:33						19	47			
361.8385	38:33						8	20			
PCB-130											
359.8415	38:58						19	47			
361.8385	38:58						8	20			
PCB-137											
359.8415	39:10						19	47			
361.8385	39:10						8	20			
PCB-164											
359.8415	39:18						19	47			
361.8385	39:18						8	20			
PCB-129											
359.8415	39:35	39:38	-3	0.930	1593	387	19	47	20		RQ
361.8385	39:35	39:38	-3	0.930	2603	569	8	20	71	0.61(1.05-1.43)	
	Empc Correction				1284	312	8	20	39		
PCB-138 (C129)											
359.8415	39:35	39:38	-3	0.930	1593	387	19	47	20		RQ
361.8385	39:35	39:38	-3	0.930	2603	569	8	20	71	0.61(1.05-1.43)	
	Empc Correction				1284	312	8	20	39		
PCB-160 (C129)											
359.8415	39:35	39:38	-3	0.930	1593	387	19	47	20		RQ
361.8385	39:35	39:38	-3	0.930	2603	569	8	20	71	0.61(1.05-1.43)	
	Empc Correction				1284	312	8	20	39		
PCB-163 (C129)											
359.8415	39:35	39:38	-3	0.930	1593	387	19	47	20		RQ
361.8385	39:35	39:38	-3	0.930	2603	569	8	20	71	0.61(1.05-1.43)	
	Empc Correction				1284	312	8	20	39		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:59						19	47			
361.8385	39:59						8	20			
PCB-128											
359.8415	40:56						19	47			
361.8385	40:56						8	20			
PCB-166 (C128)											
359.8415	40:56						19	47			
361.8385	40:56						8	20			
PCB-159											
359.8415	41:49						19	47			
361.8385	41:49						8	20			
PCB-162											
359.8415	42:07						19	47			
361.8385	42:07						8	20			
PCB-167											
359.8415	42:36						19	47			
361.8385	42:36						8	20			
PCB-156											
359.8415	43:47						19	47			
361.8385	43:47						8	20			
PCB-157 (C156)											
359.8415	43:47						19	47			
361.8385	43:47						8	20			
PCB-169											
359.8415	46:59						19	47			
361.8385	46:59						8	20			
PCB-188L											
405.8428	36:59	36:58	0	0.820	1947325	391274	120	300	3261		
407.8398	36:59	36:58	0	0.820	1815894	358224	15	37	23882	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:02	40:01	0	0.888	1280562	243555	120	300	2030		
407.8398	40:02	40:01	0	0.888	1199291	232265	15	37	15484	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	-1		1483275	284358	120	300	2370		
407.8398	45:06	45:07	-1		1394911	268165	15	37	17878	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:22	46:22	-1	1.028	1135509	218356	120	300	1820		
407.8398	46:22	46:22	-1	1.028	1079783	206582	15	37	13772	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	0	1.097	2489816	458424	1205	3012	380		
407.8398	49:28	49:27	0	1.097	2349564	431004	646	1615	667	1.06(0.89-1.21)	
PCB-188											
393.8025	37:01						3	7			
395.7995	37:01						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											
393.8025	37:24						3	7			
395.7995	37:24						1	2			
PCB-184											
393.8025	37:51						3	7			
395.7995	37:51						1	2			
PCB-176											
393.8025	38:14						3	7			
395.7995	38:14						1	2			
PCB-186											
393.8025	38:42						3	7			
395.7995	38:42						1	2			
PCB-178											
393.8025	40:04						3	7			
395.7995	40:04						1	2			
PCB-175											
393.8025	40:43						3	7			
395.7995	40:43						1	2			
PCB-187											
393.8025	40:54						3	7			
395.7995	40:54						1	2			
PCB-182											
393.8025	41:09						3	7			
395.7995	41:09						1	2			
PCB-183											
393.8025	41:34	41:38	0	1.124	532	229	3	7	76		RQ
395.7995	41:34	41:38	0	1.124	800	255	1	2	255	0.67(0.89-1.21)	
	Empc Correction				506	218	1	2	218		
PCB-185 (C183)											
393.8025	41:34	41:38	0	1.124	532	229	3	7	76		RQ
395.7995	41:34	41:38	0	1.124	800	255	1	2	255	0.67(0.89-1.21)	
	Empc Correction				506	218	1	2	218		
PCB-174											
393.8025	41:49						3	7			
395.7995	41:49						1	2			
PCB-177											
393.8025	42:15						3	7			
395.7995	42:15						1	2			
PCB-181											
393.8025	42:38						3	7			
395.7995	42:38						1	2			
PCB-171											
393.8025	42:55						3	7			
395.7995	42:55						1	2			
PCB-173 (C171)											
393.8025	42:55						3	7			
395.7995	42:55						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:31						3	7			
395.7995	44:31						1	2			
PCB-192											
393.8025	44:45						3	7			
395.7995	44:45						1	2			
PCB-180											
393.8025	45:09						3	7			
395.7995	45:09						1	2			
PCB-193 (C180)											
393.8025	45:09						3	7			
395.7995	45:09						1	2			
PCB-191											
393.8025	45:29						3	7			
395.7995	45:29						1	2			
PCB-170											
393.8025	46:24						3	7			
395.7995	46:24						1	2			
PCB-190											
393.8025	46:56						3	7			
395.7995	46:56						1	2			
PCB-189											
393.8025	49:31						19	47			
395.7995	49:31						30	75			
PCB-202L											
439.8038	42:20	42:19	0	0.821	1200601	233919	54	135	4332		
441.8008	42:20	42:19	0	0.821	1303907	261393	48	120	5446	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:34	51:35	-1		1703487	327238	74	185	4422		
441.8008	51:34	51:35	-1		1865797	351690	87	217	4042	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:02	0	1.009	1912125	359048	74	185	4852		
441.8008	52:02	52:02	0	1.009	2128090	395848	87	217	4550	0.90(0.76-1.02)	
PCB-202											
427.7635	42:22						4	10			
429.7606	42:22						6	15			
PCB-201											
427.7635	43:17						4	10			
429.7606	43:17						6	15			
PCB-204											
427.7635	43:57						4	10			
429.7606	43:57						6	15			
PCB-197											
427.7635	44:10						4	10			
429.7606	44:10						6	15			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:18						4	10			
429.7606	44:18						6	15			
PCB-198											
427.7635	47:04						4	10			
429.7606	47:04						6	15			
PCB-199 (C198)											
427.7635	47:04						4	10			
429.7606	47:04						6	15			
PCB-196											
427.7635	47:44	47:45	0	0.917	431	227	4	10	57		
429.7606	47:48	47:45	4	0.918	481	108	6	15	18	0.90(0.76-1.02)	
PCB-203											
427.7635	47:56						4	10			
429.7606	47:56						6	15			
PCB-195											
427.7635	49:16						8	20			
429.7606	49:16						14	35			
PCB-194											
427.7635	51:36						8	20			
429.7606	51:36						14	35			
PCB-205											
427.7635	52:04						8	20			
429.7606	52:04						14	35			
PCB-208L											
473.7648	48:59	48:59	-1	0.950	1428435	267750	341	852	785		
475.7619	48:59	48:59	-1	0.950	1801337	337746	338	845	999	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	0	1.043	1125255	206295	341	852	605		
475.7619	53:47	53:47	-1	1.043	1346402	245010	338	845	725	0.84(0.65-0.89)	
PCB-208											
461.7246	49:01						23	57			
463.7216	49:01						23	57			
PCB-207											
461.7246	49:56						23	57			
463.7216	49:56						23	57			
PCB-206											
461.7246	53:50						23	57			
463.7216	53:50						23	57			
PCB-209L											
507.7258	55:23	55:23	0	1.074	1107367	197350	47	117	4199		
509.7229	55:23	55:23	0	1.074	1529813	266416	106	265	2513	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:26						9	22			
497.6826	55:26						10	25			

RQU

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

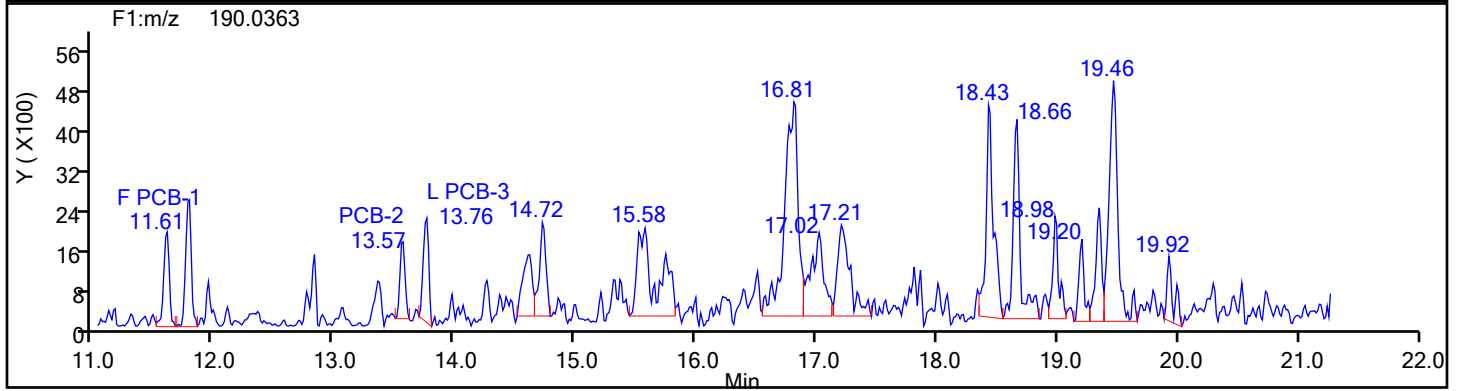
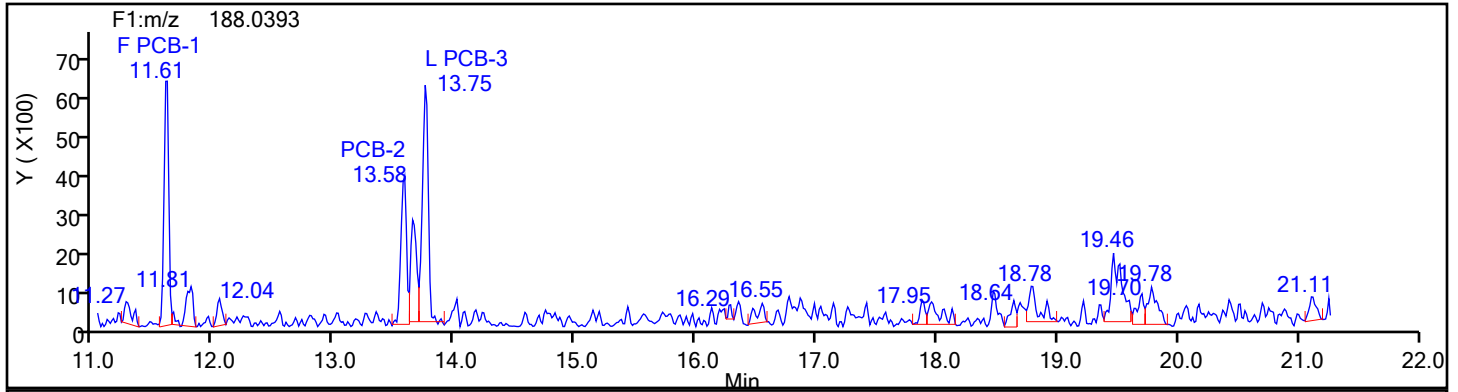
M - Manually Integrated

U - Marked Undetected

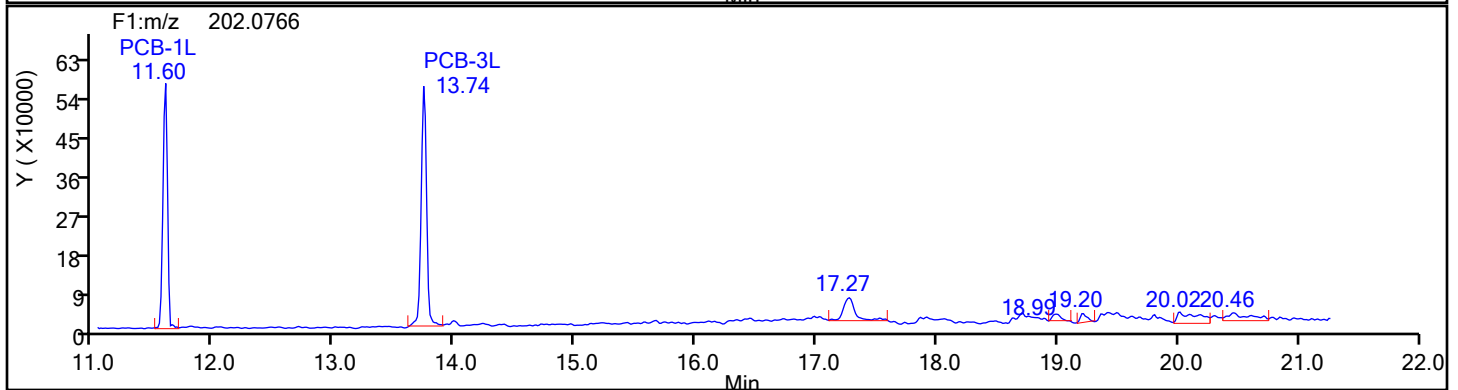
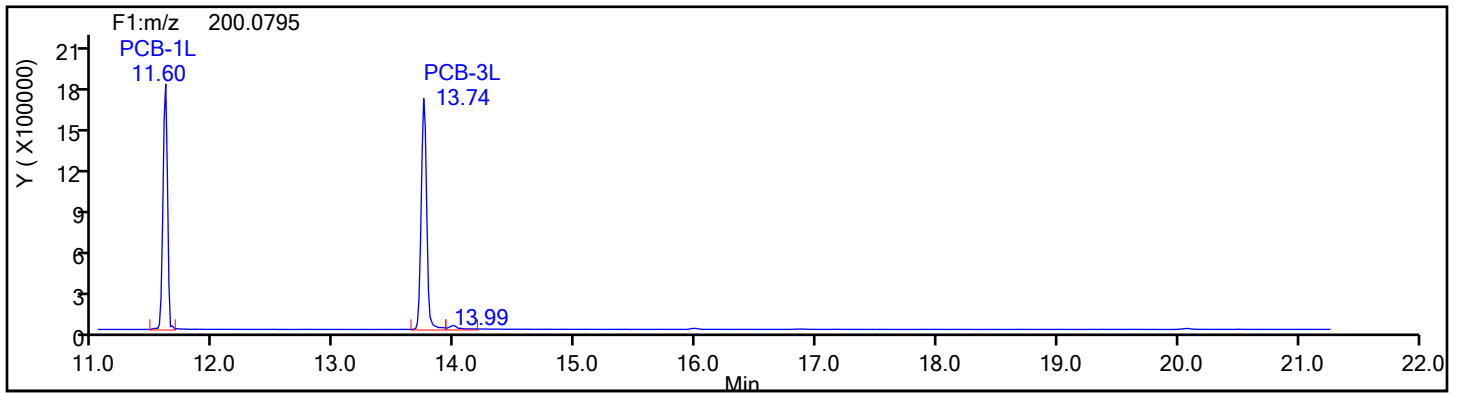
a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

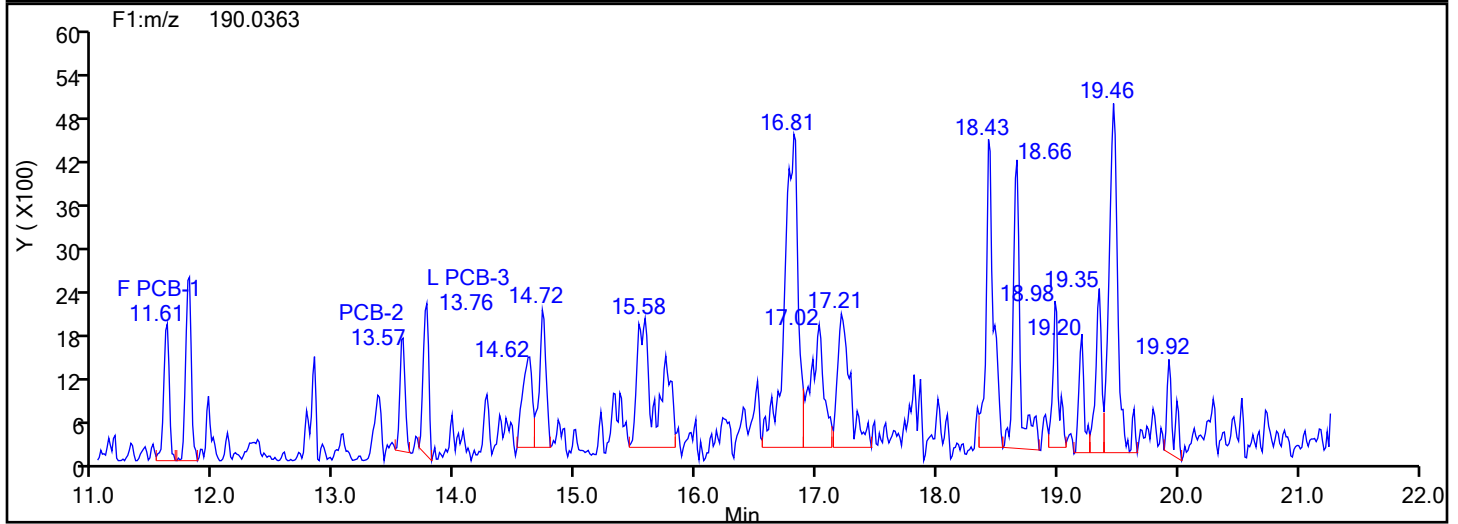
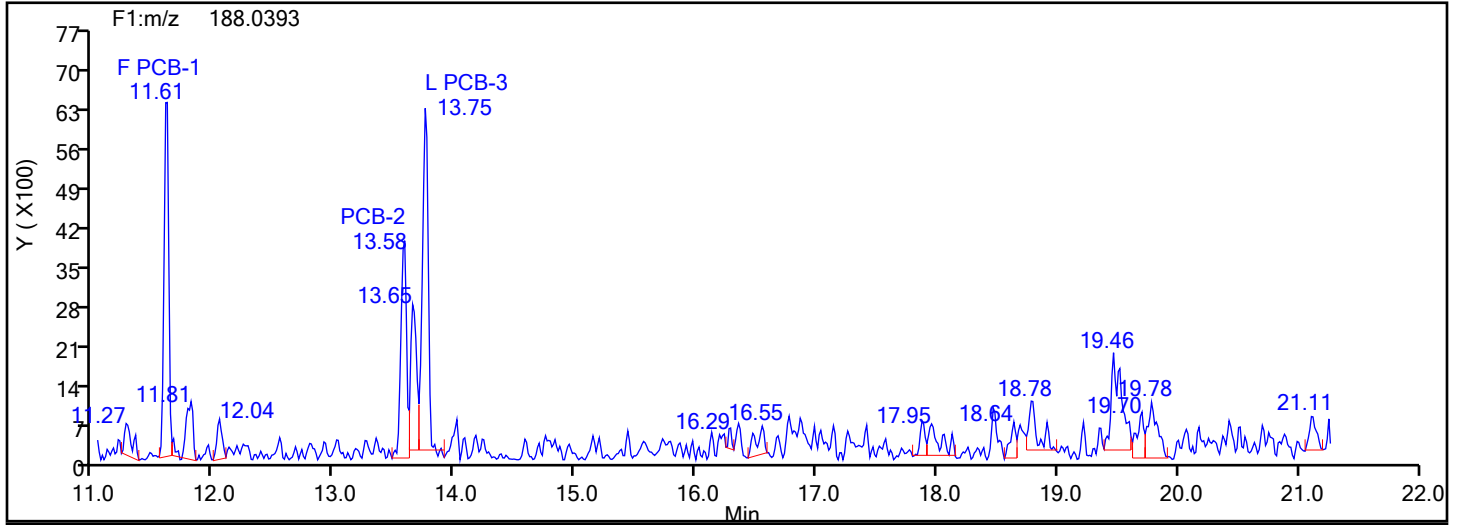


MoPCB F1 Standards

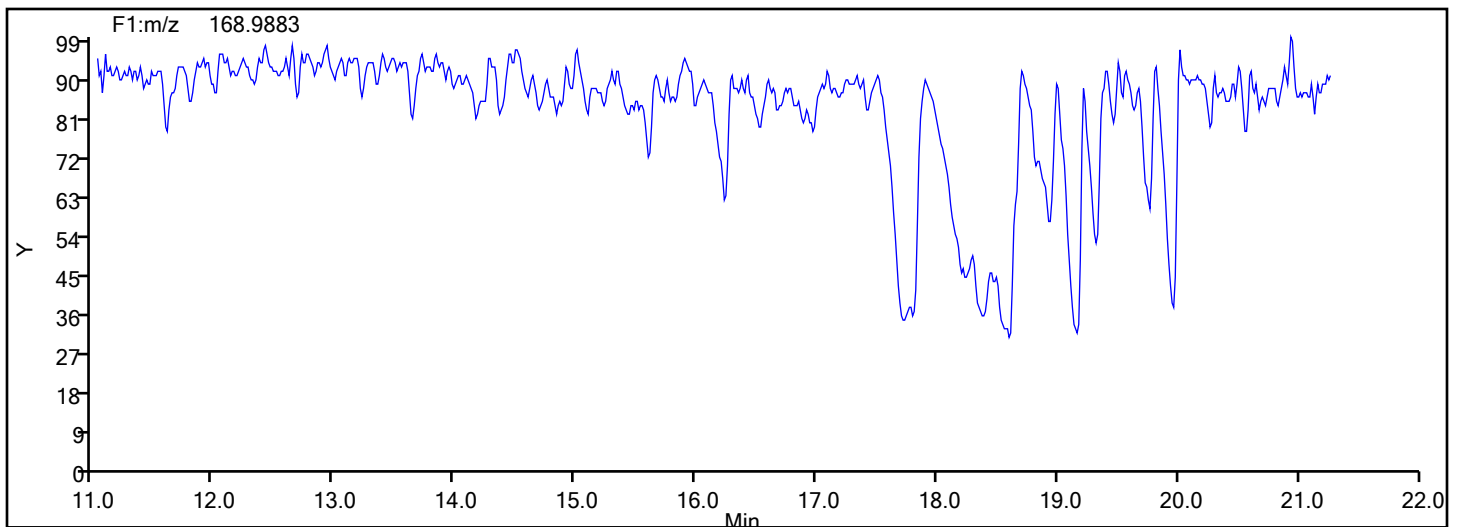


Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

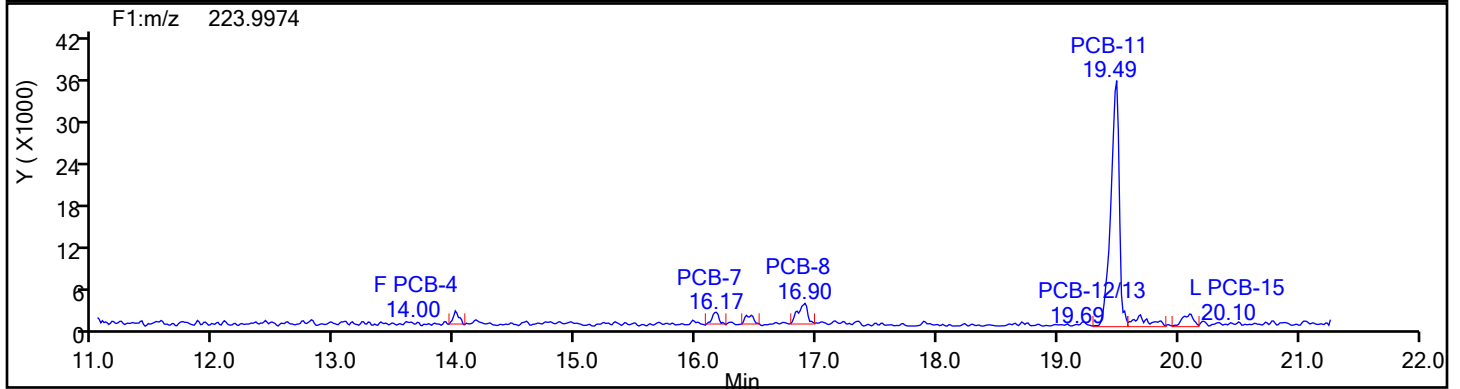
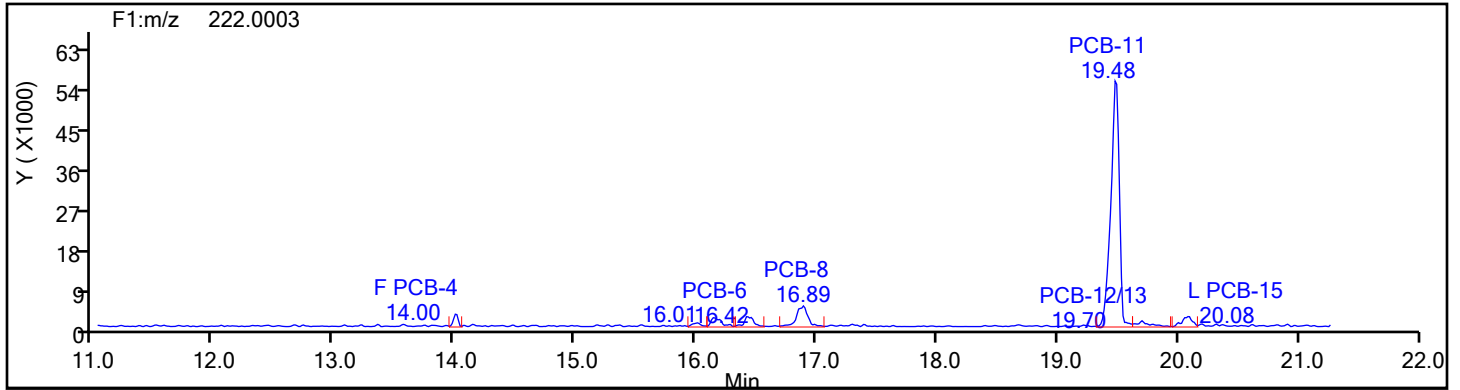


MoPCB F1 Lock Mass

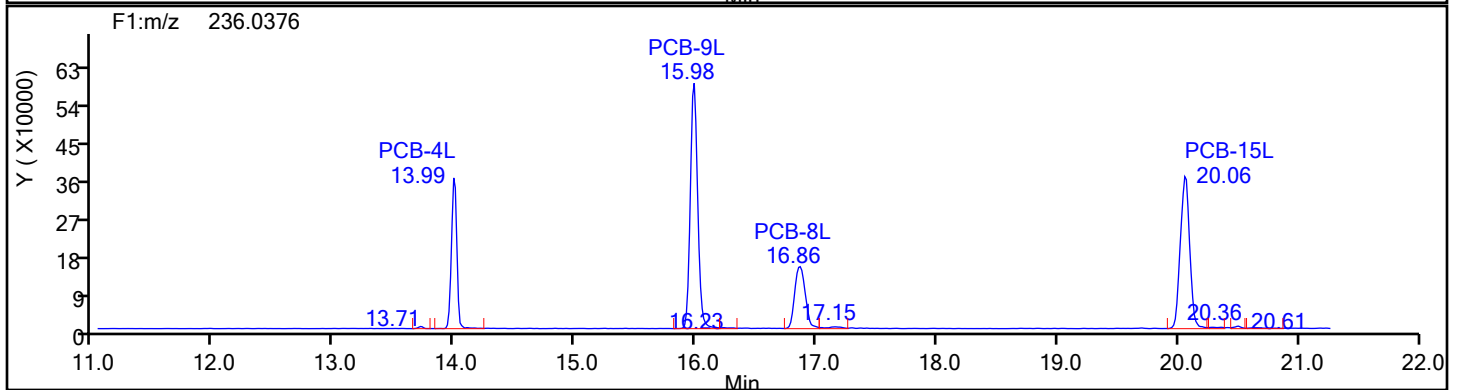
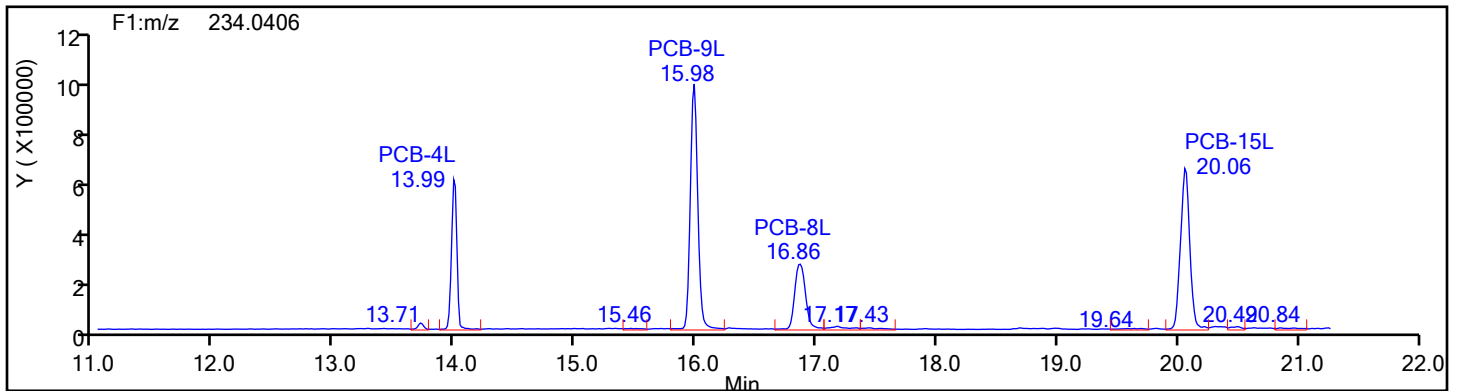


Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

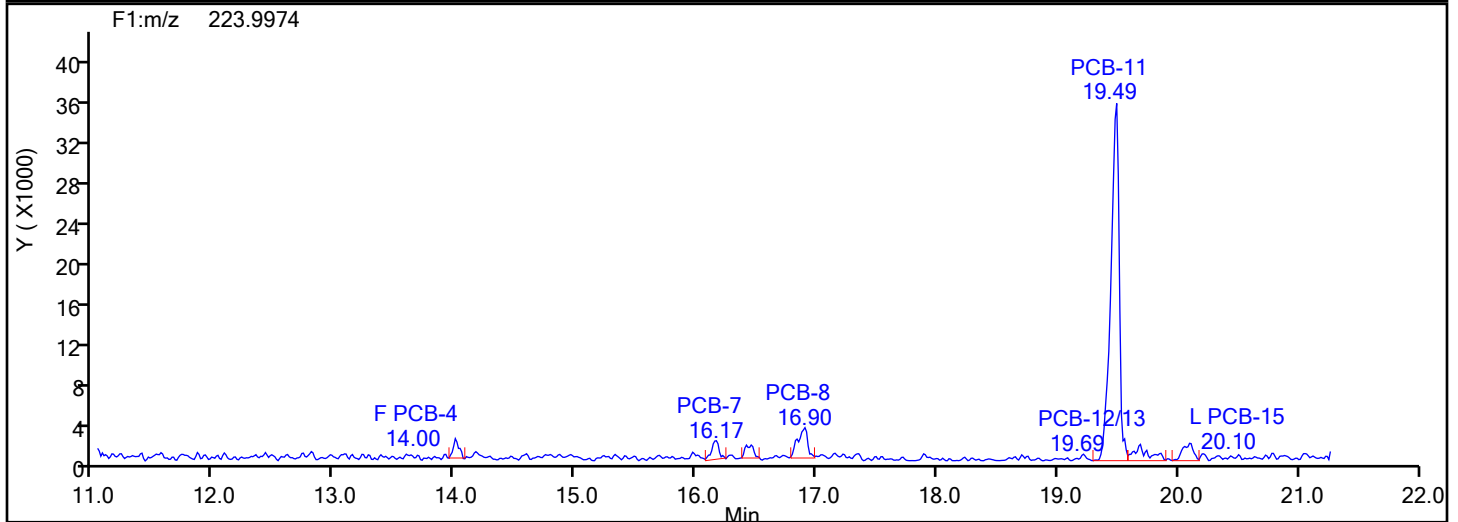
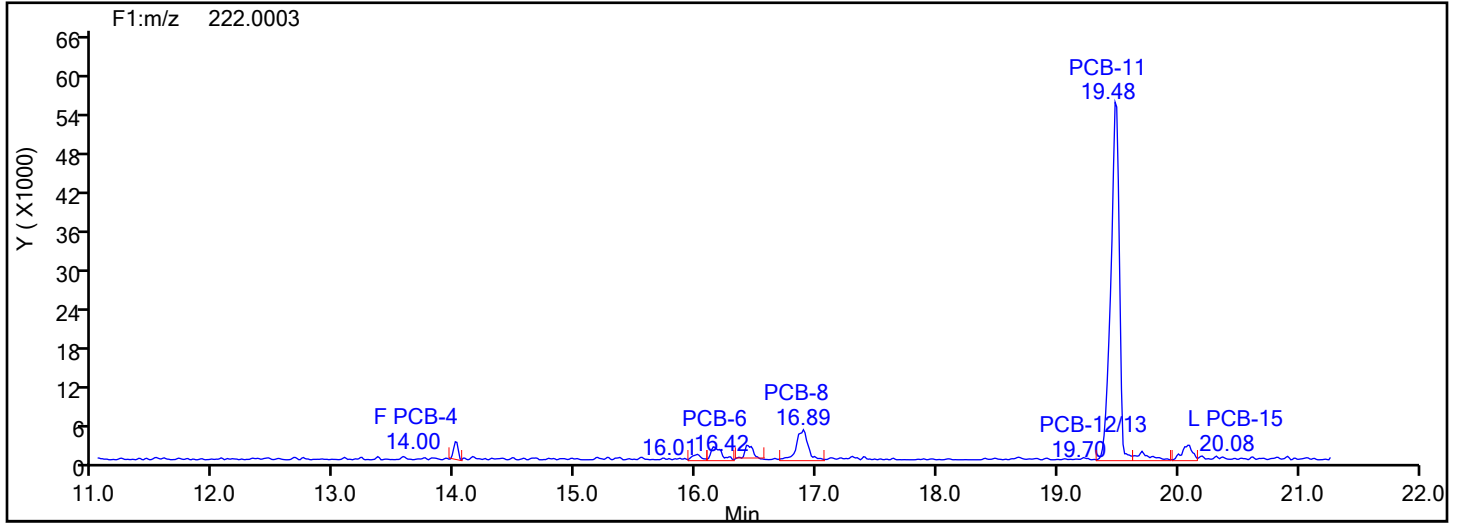


DiPCB F1 Standards

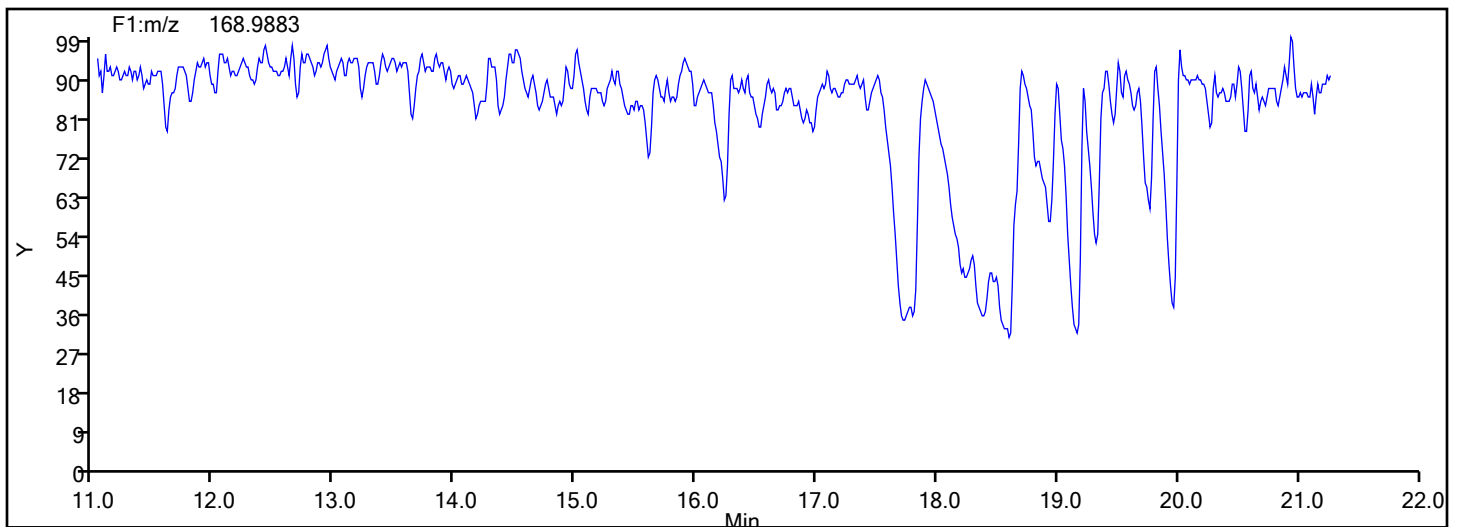


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

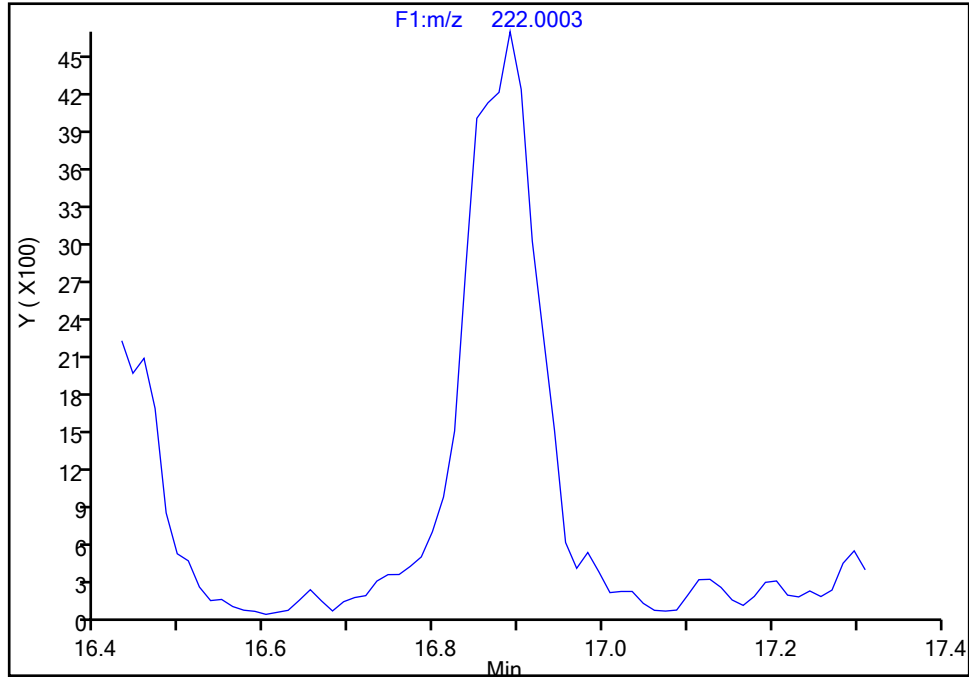
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8, CAS: 34883-43-7

Signal: 1

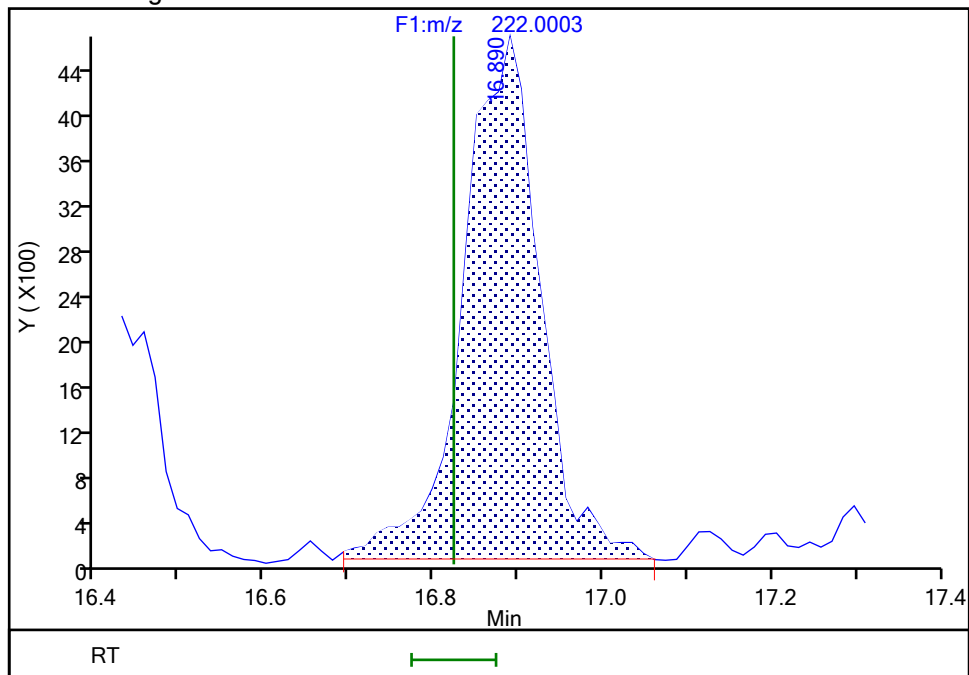
Not Detected
Expected RT: 16.82

Processing Integration Results



RT: 16.89
Area: 29090
Amount: 0.692171
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:40:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

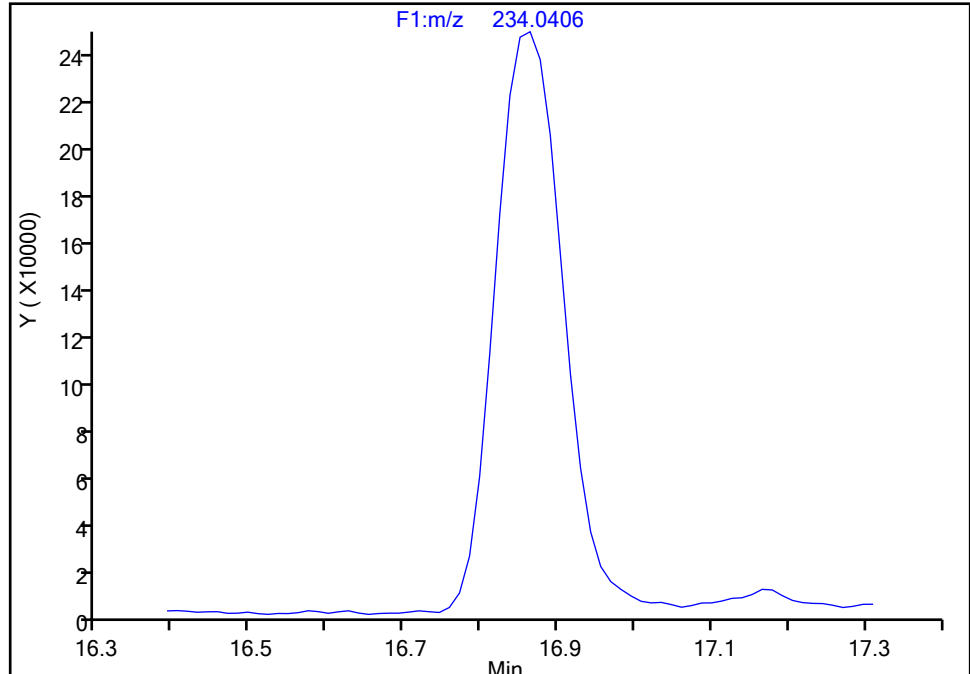
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

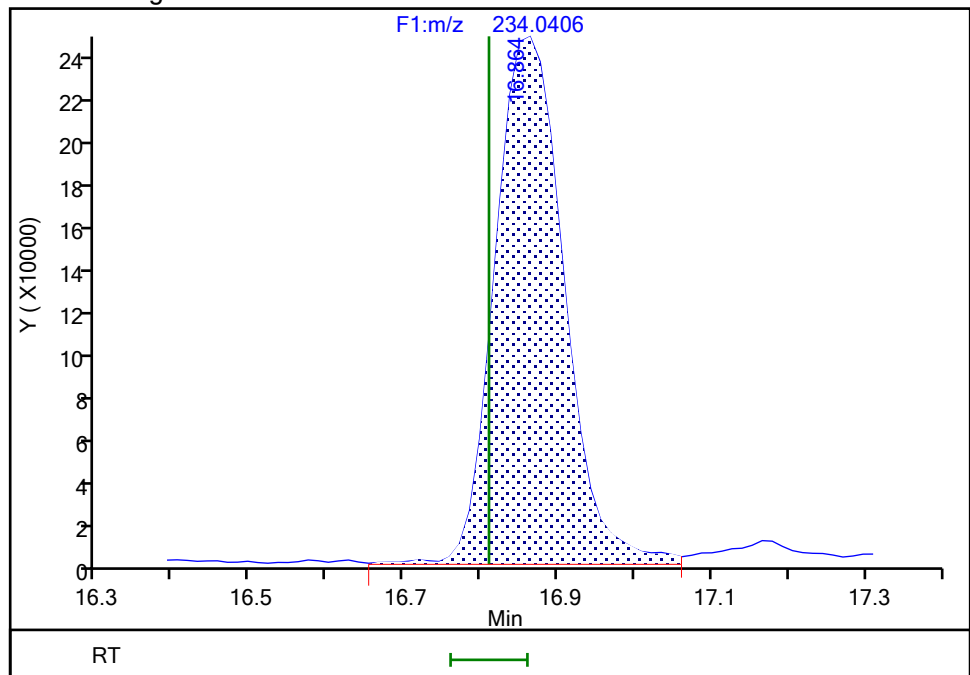
Not Detected
Expected RT: 16.81

Processing Integration Results



RT: 16.86
Area: 1547081
Amount: 49.944779
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:40:12 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d

Injection Date: 16-Jul-2024 10:05:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

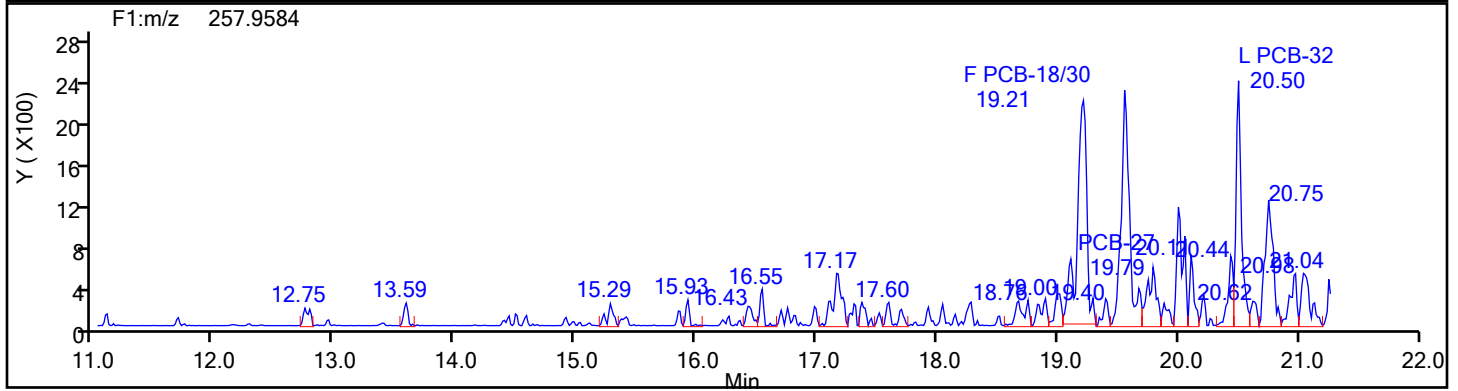
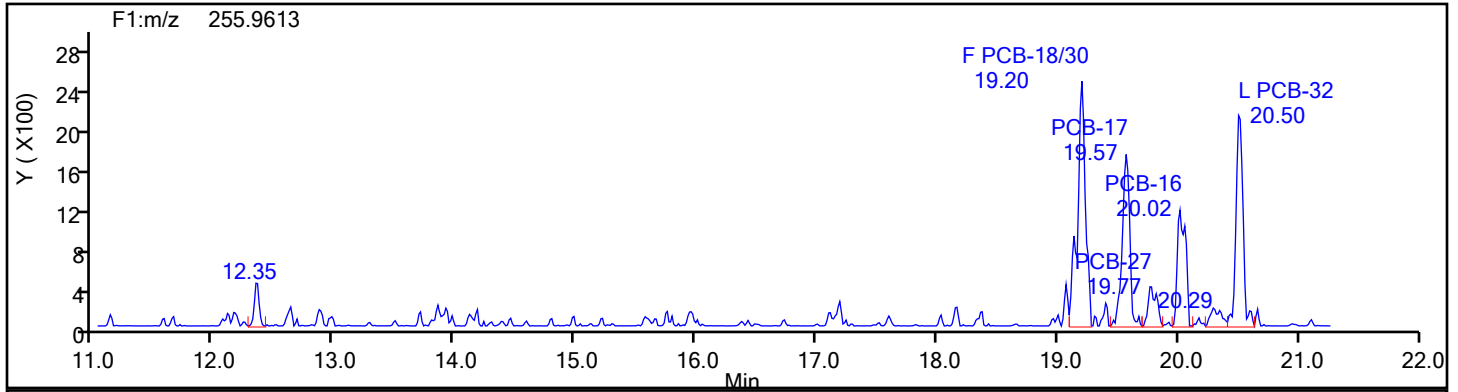
Worklist#: 88780

Sample Line#: 13

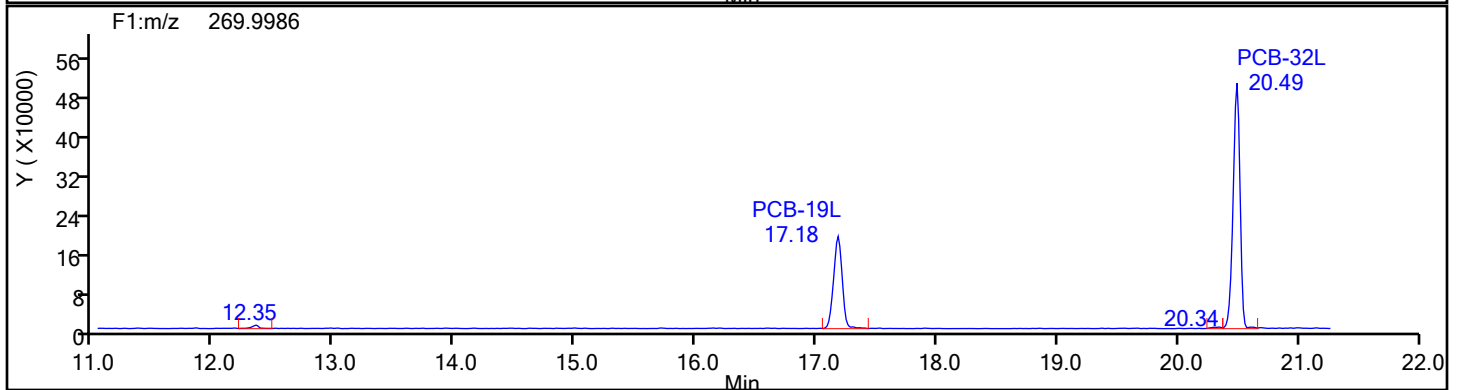
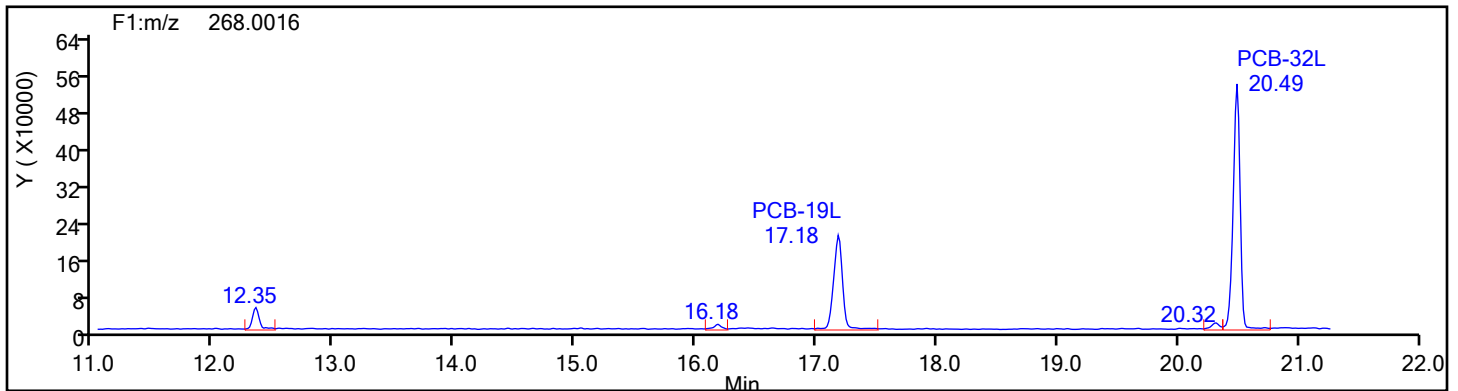
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

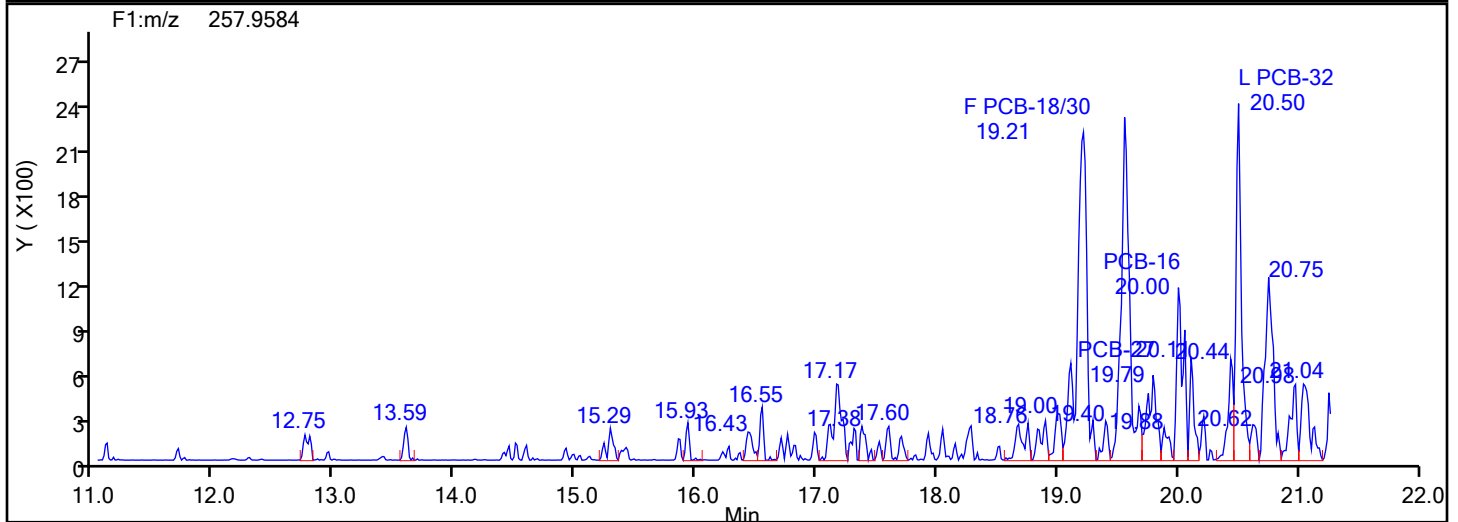
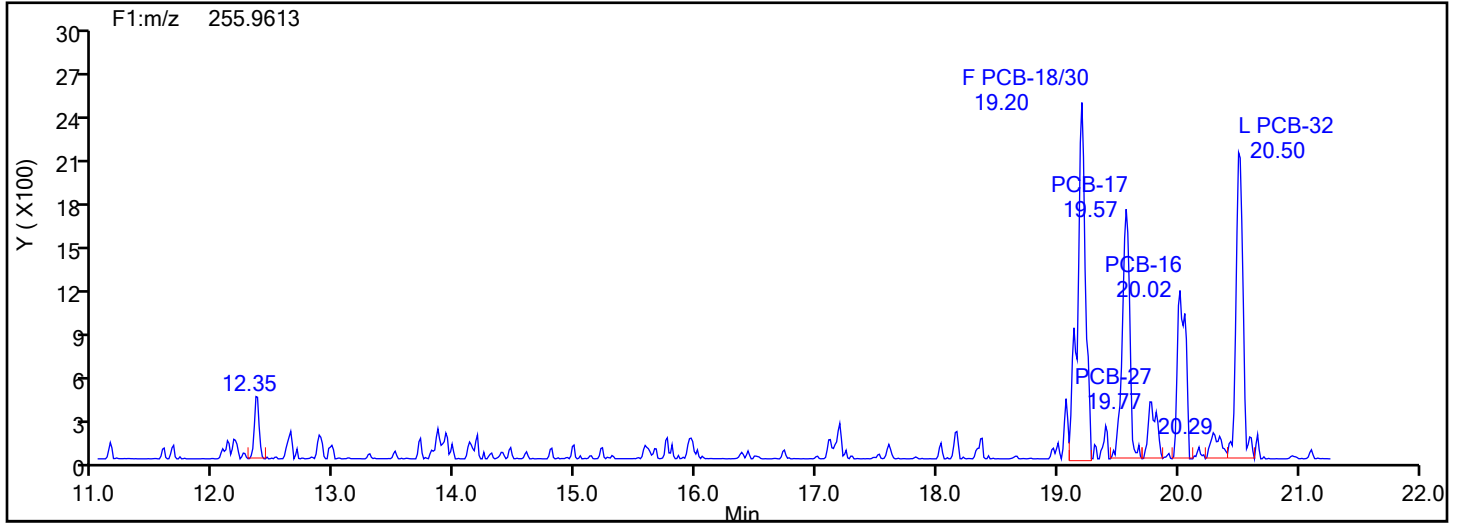


TriPCB F1 Standards

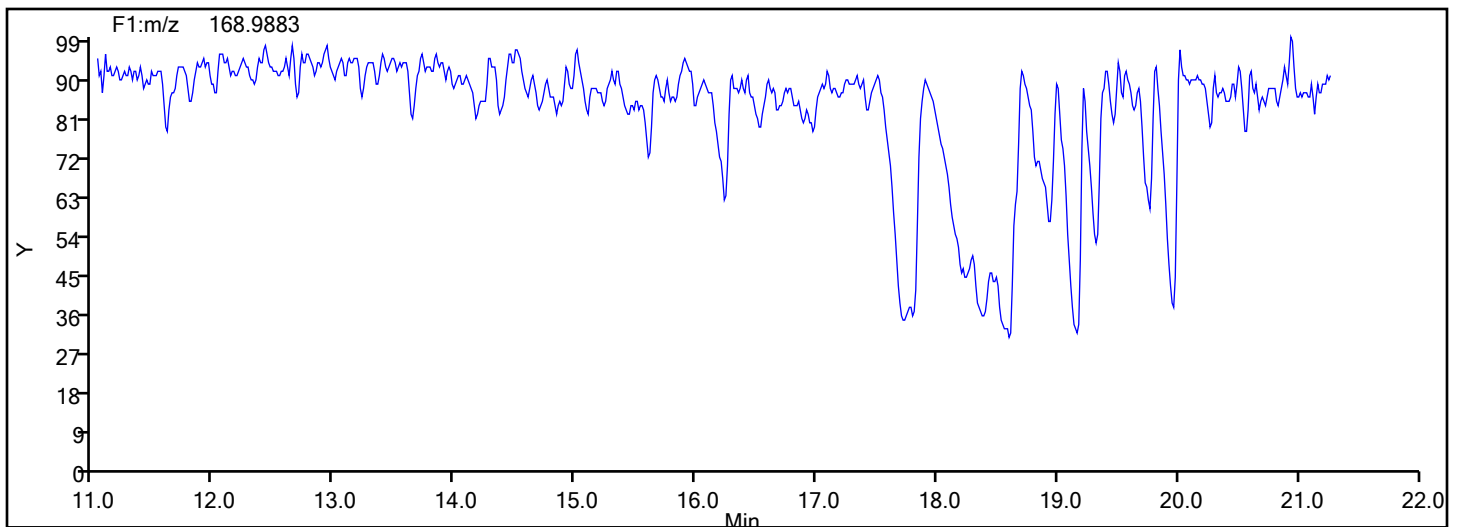


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

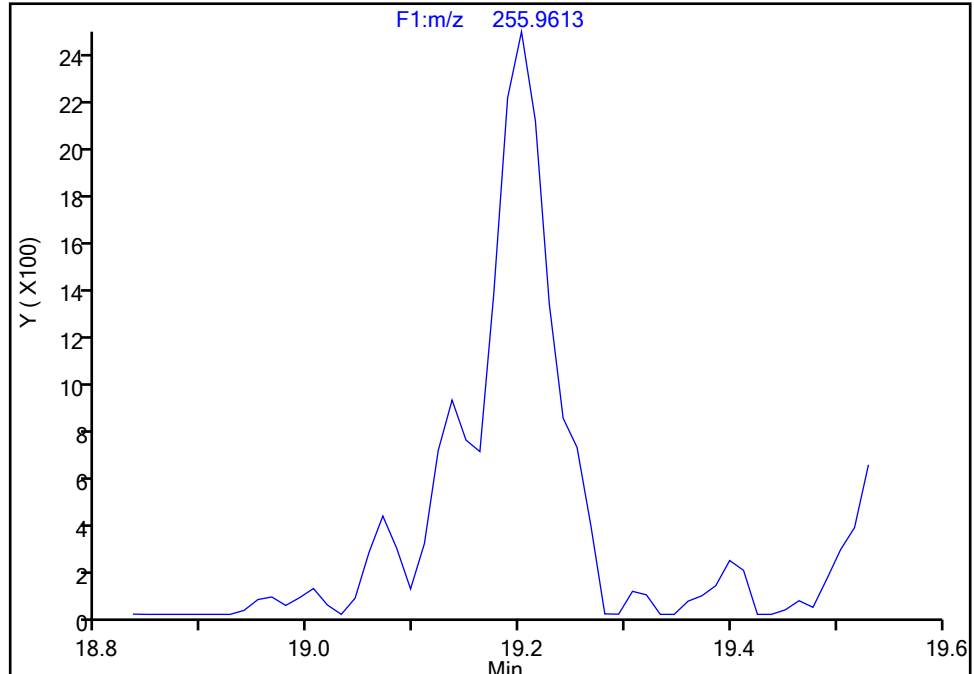
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 1

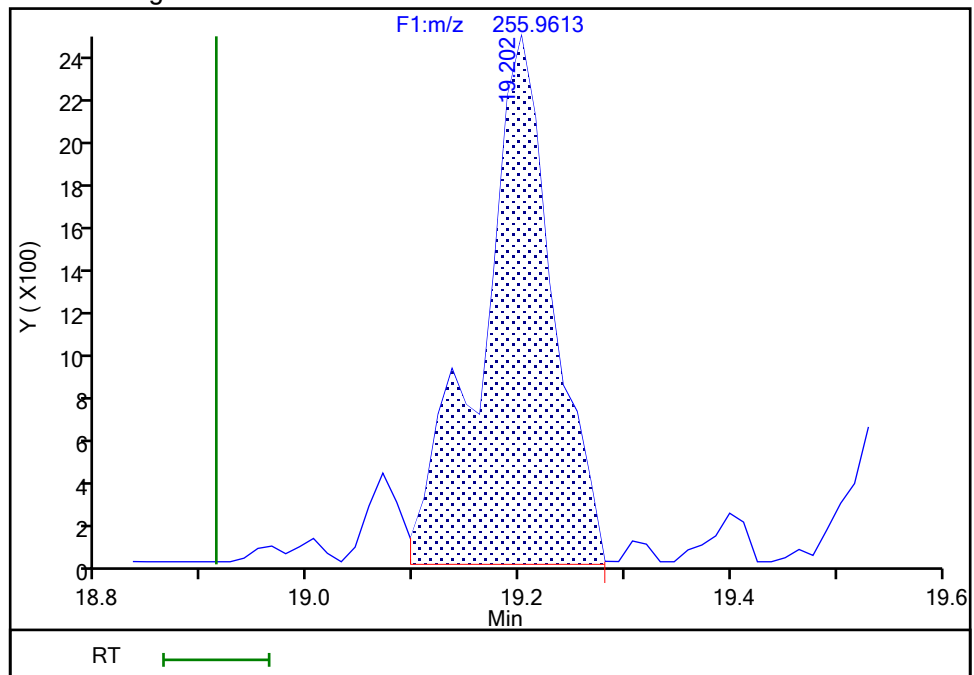
Not Detected
Expected RT: 18.91

Processing Integration Results



RT: 19.20
Area: 11719
Amount: 0.696197
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:41:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

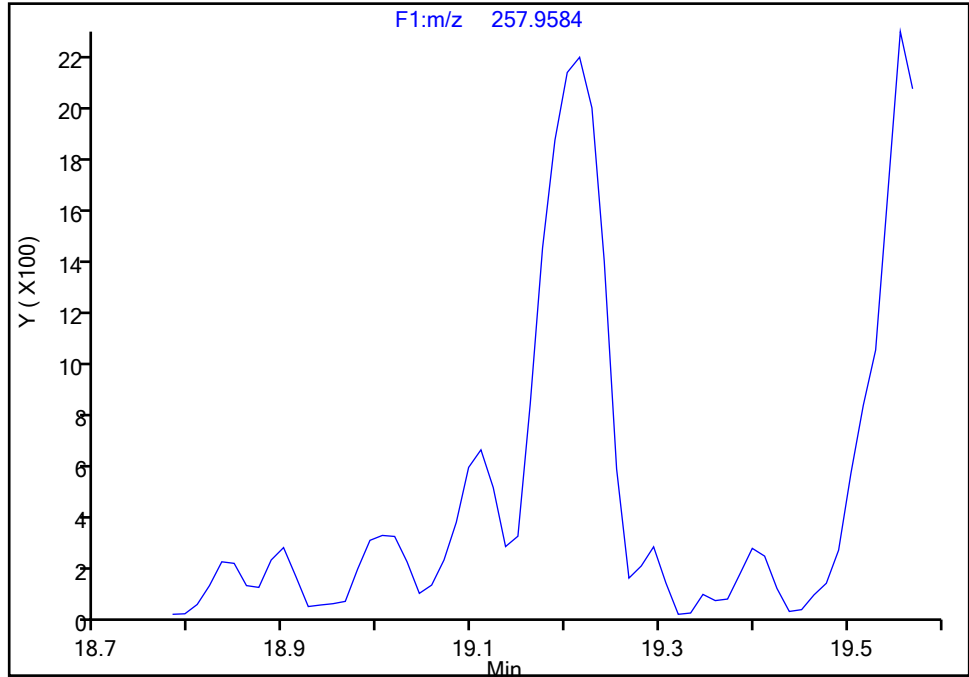
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F1(11.07 :21.70)

PCB-18/30, CAS: STL01798

Signal: 2

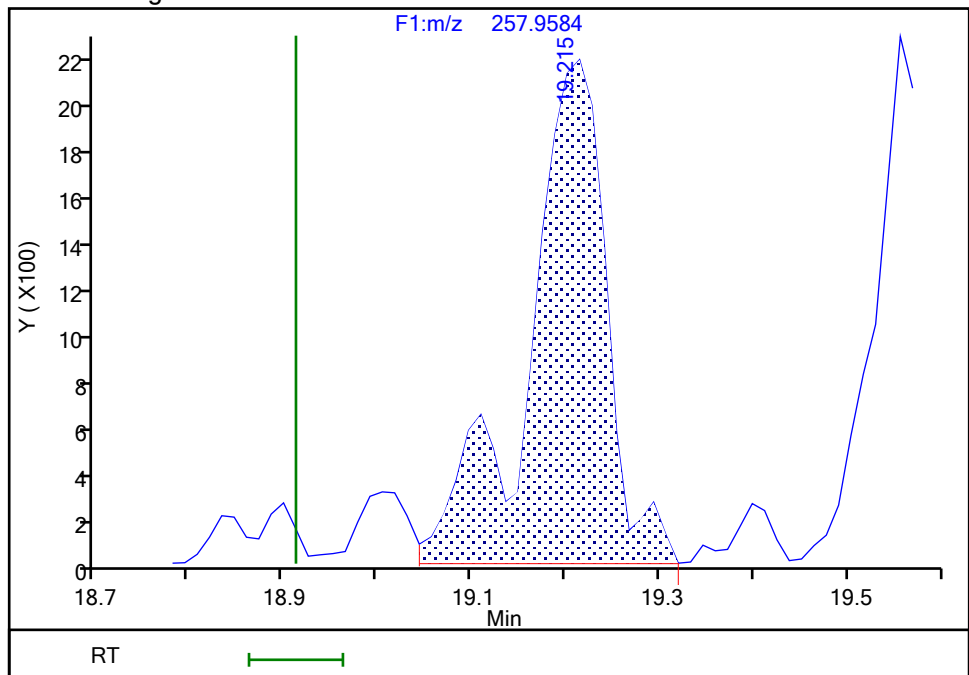
Not Detected
Expected RT: 18.91

Processing Integration Results



Manual Integration Results

RT: 19.21
Area: 12484
Amount: 0.696197
Amount Units: pg/ul



Reviewer: V4XA, 17-Jul-2024 01:41:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1570 of 3050

BASFWC-McIntosh-009571

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d

Injection Date: 16-Jul-2024 10:05:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

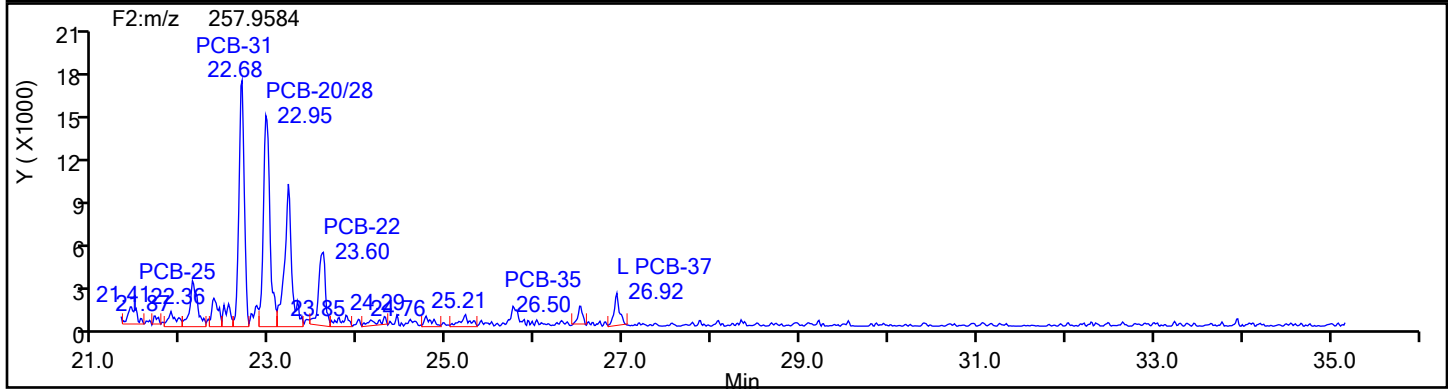
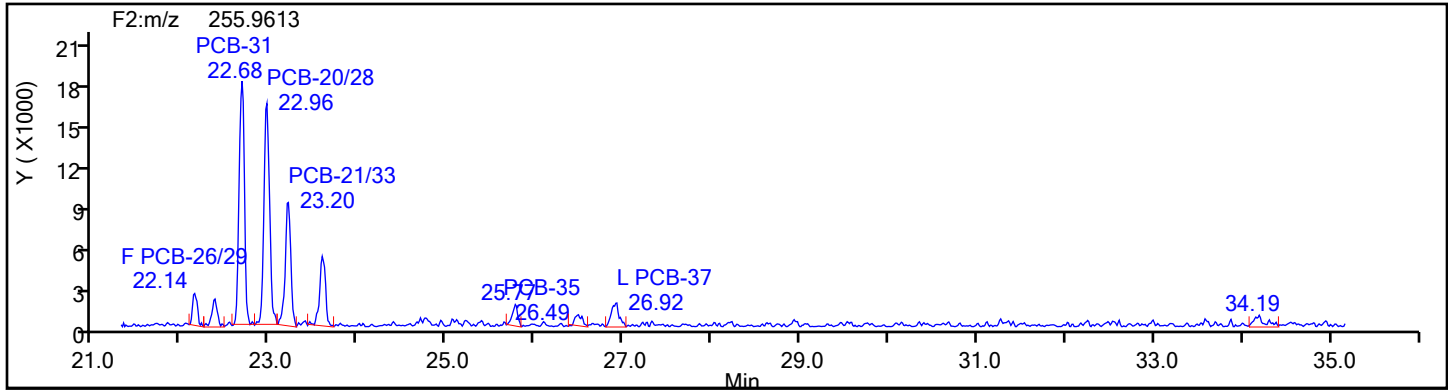
Worklist#: 88780

Sample Line#: 13

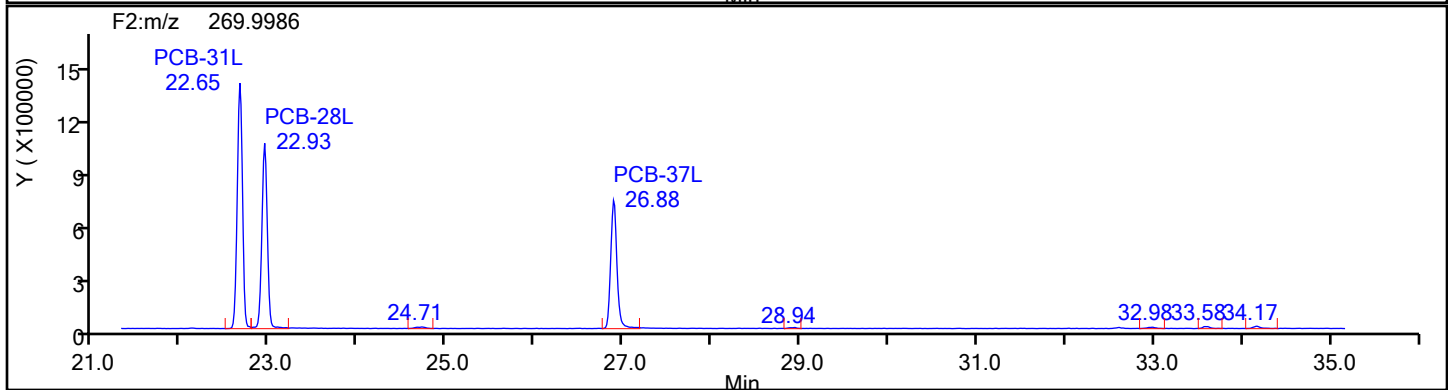
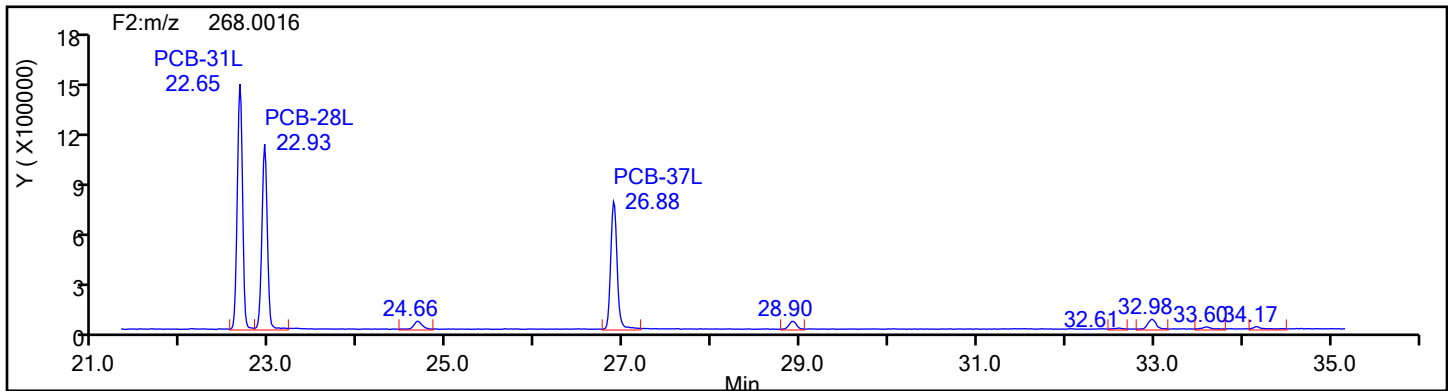
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2

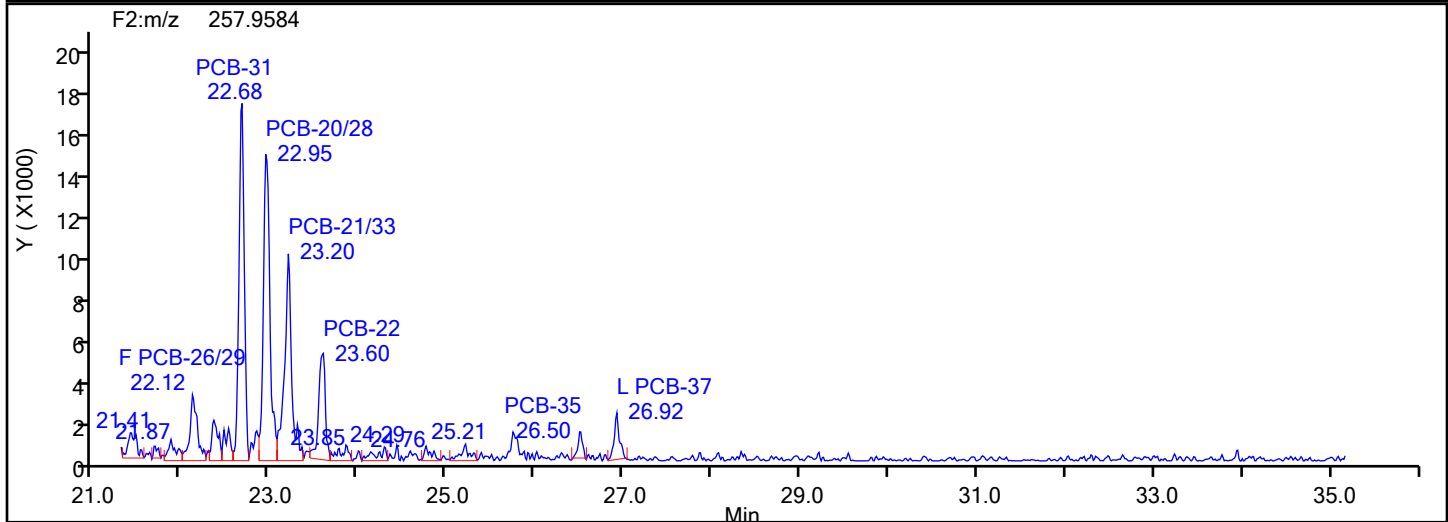
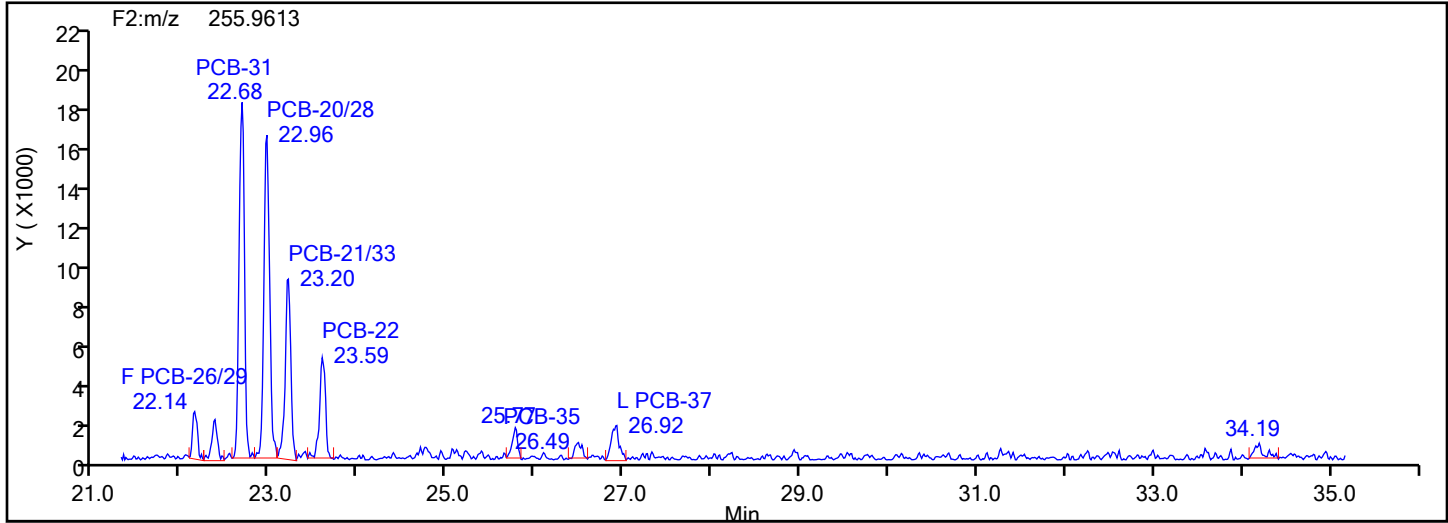


TriPCB F2 Standards

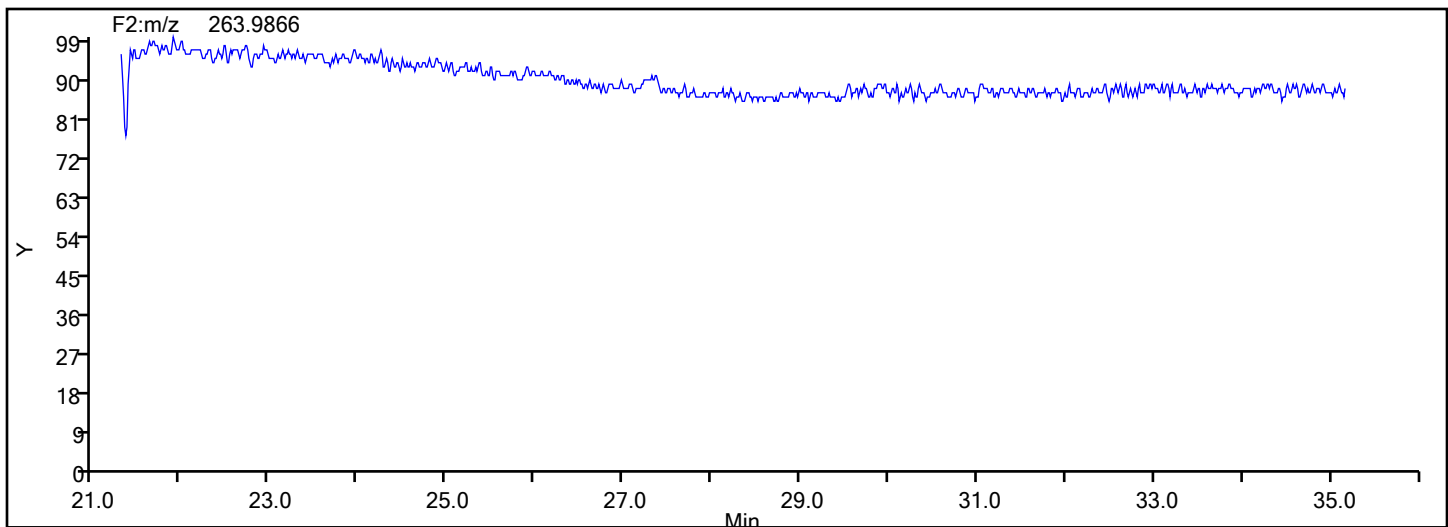


Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d

Injection Date: 16-Jul-2024 10:05:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

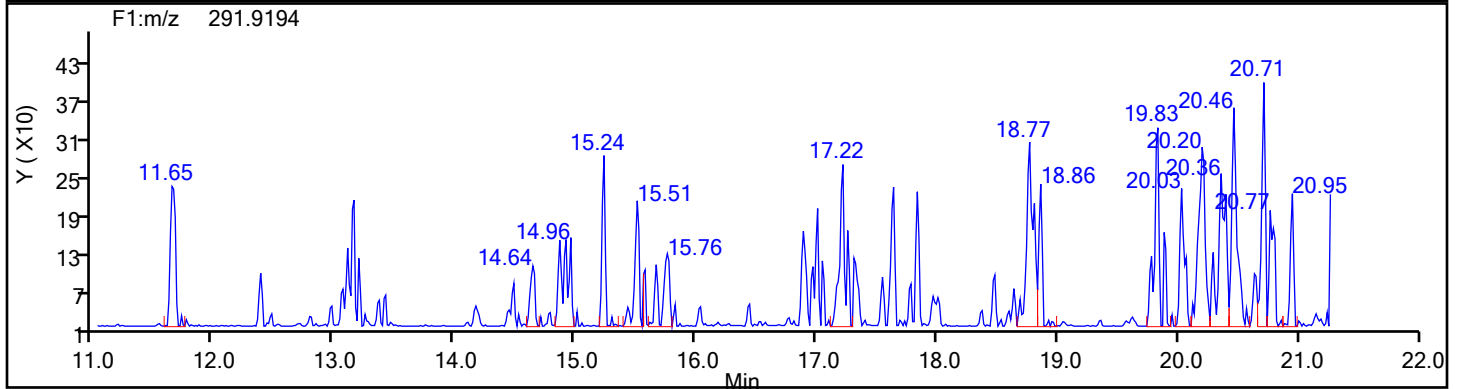
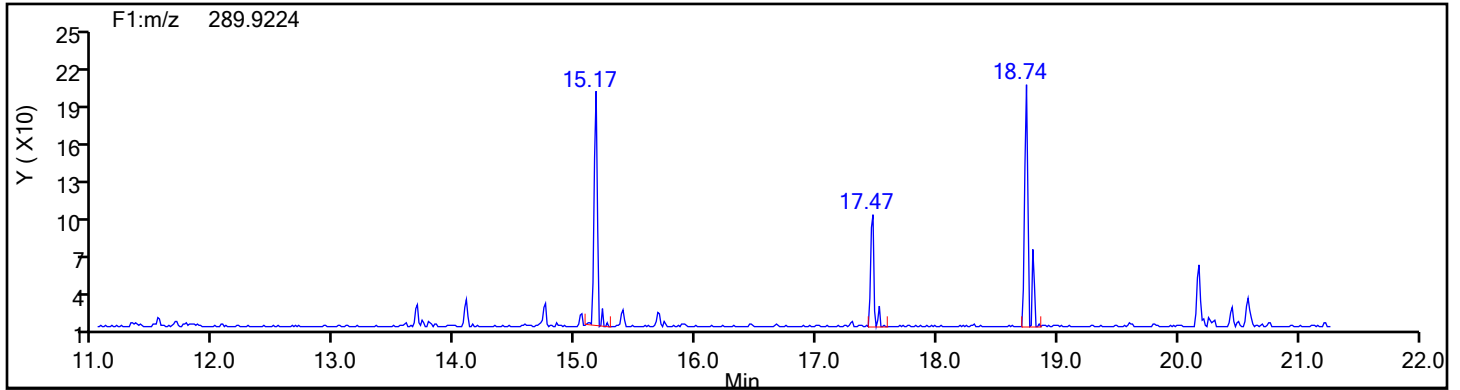
Worklist#: 88780

Sample Line#: 13

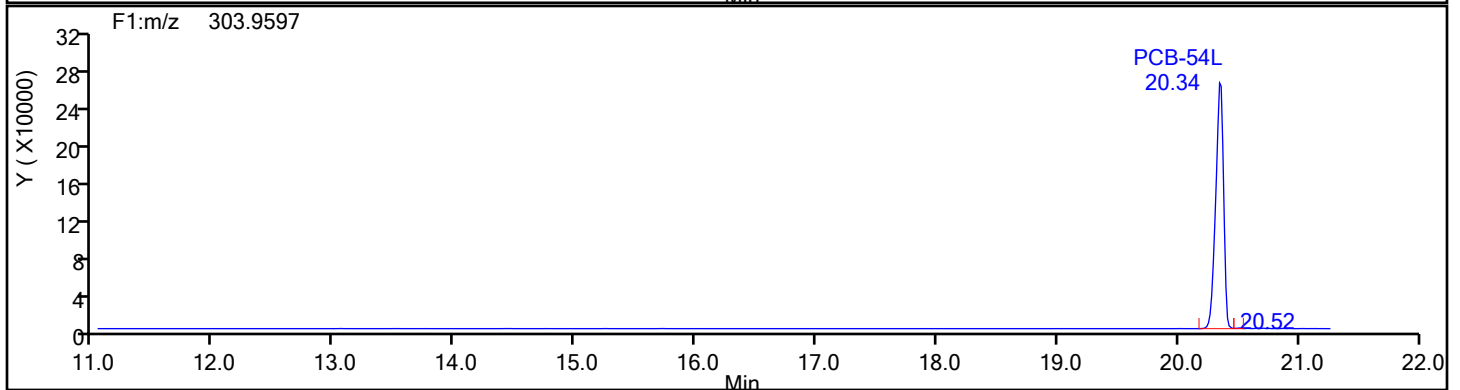
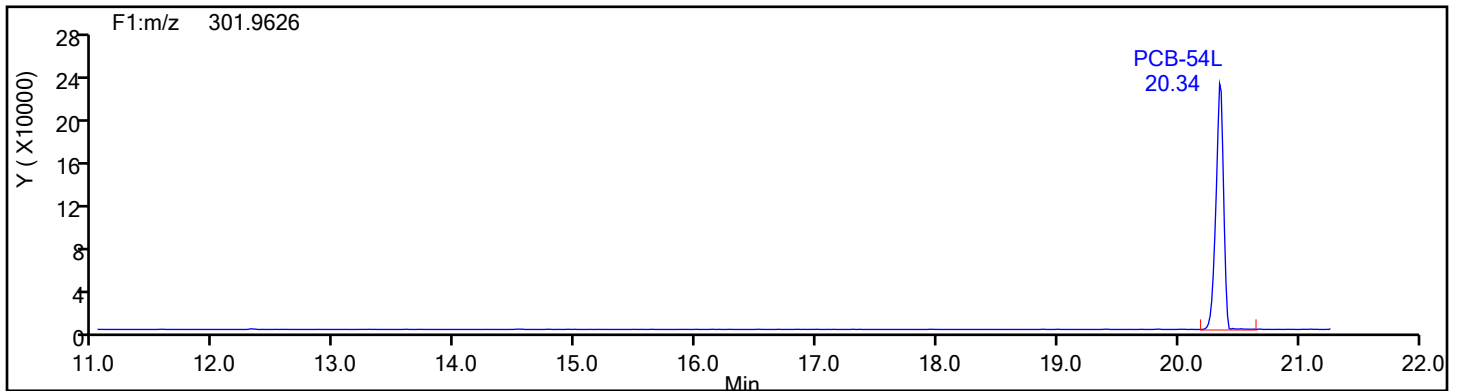
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

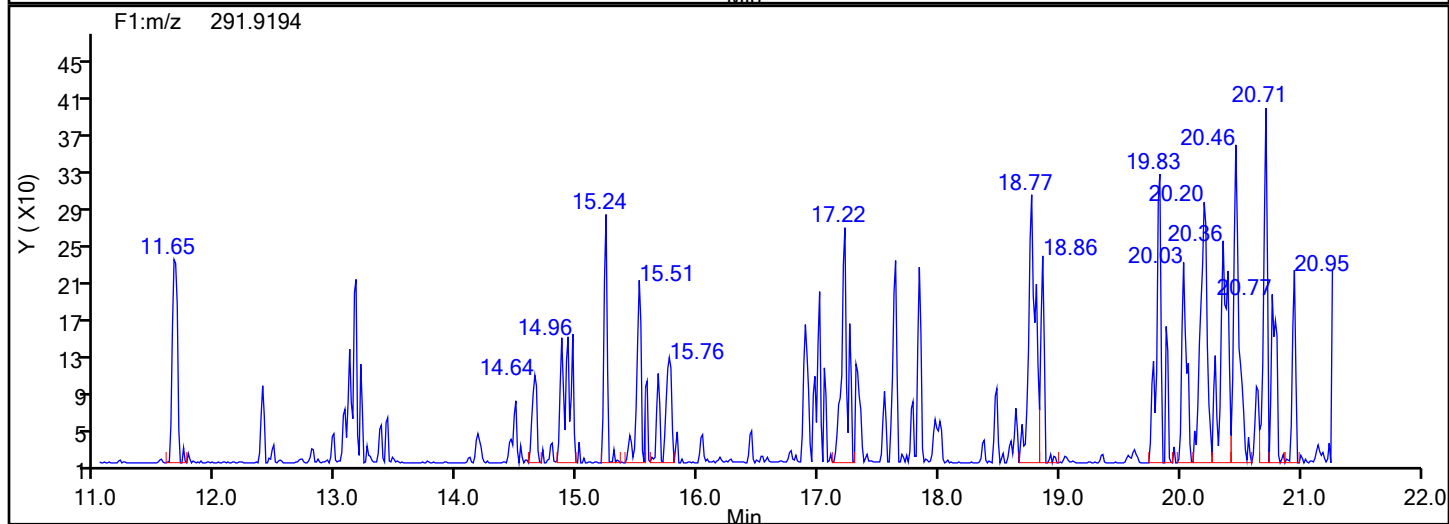
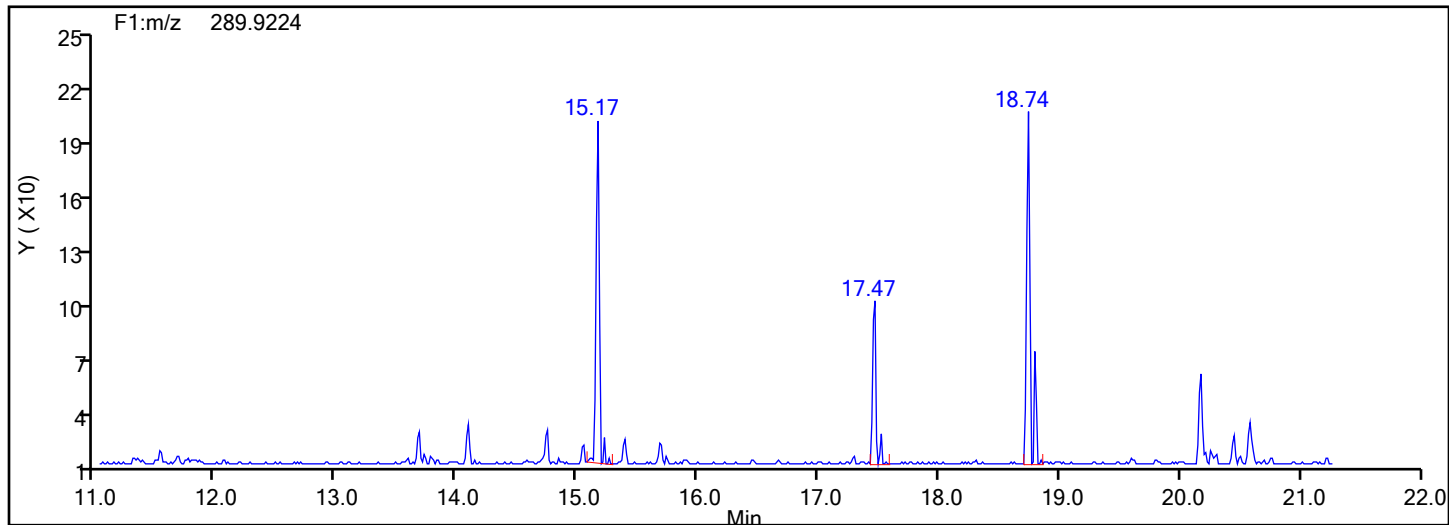


TePCB F1 Standards

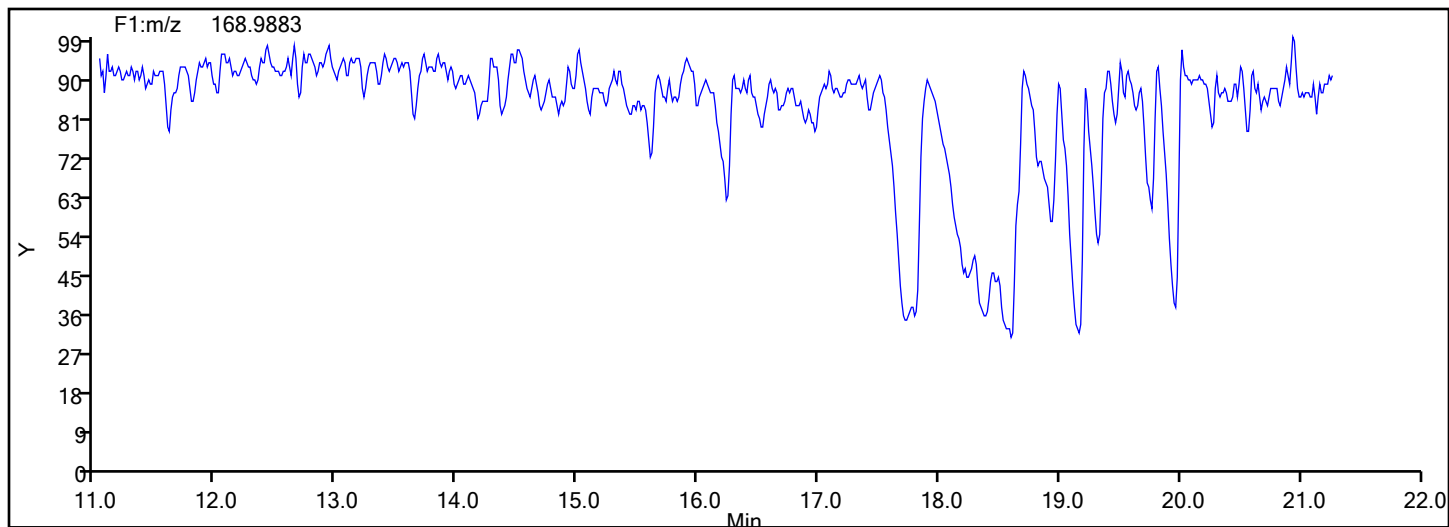


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

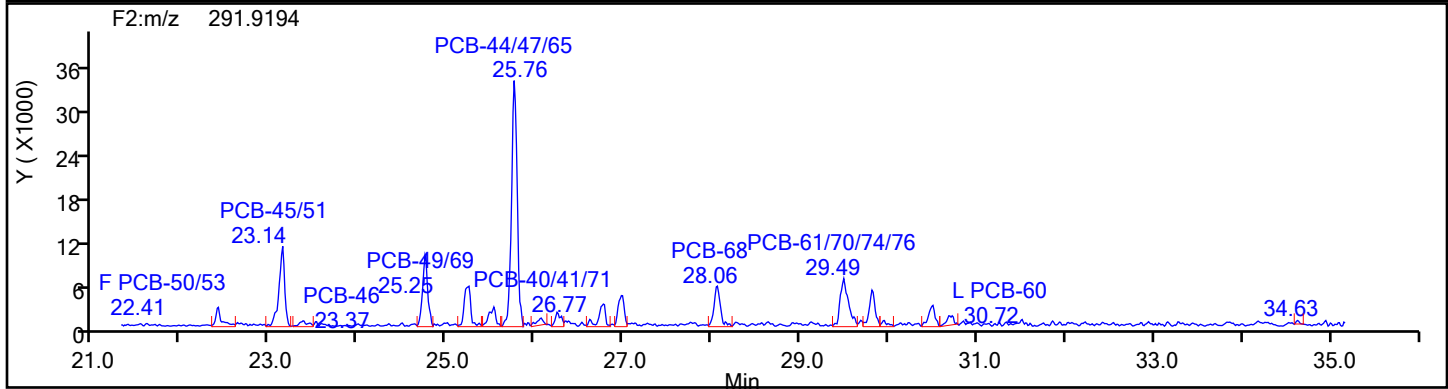
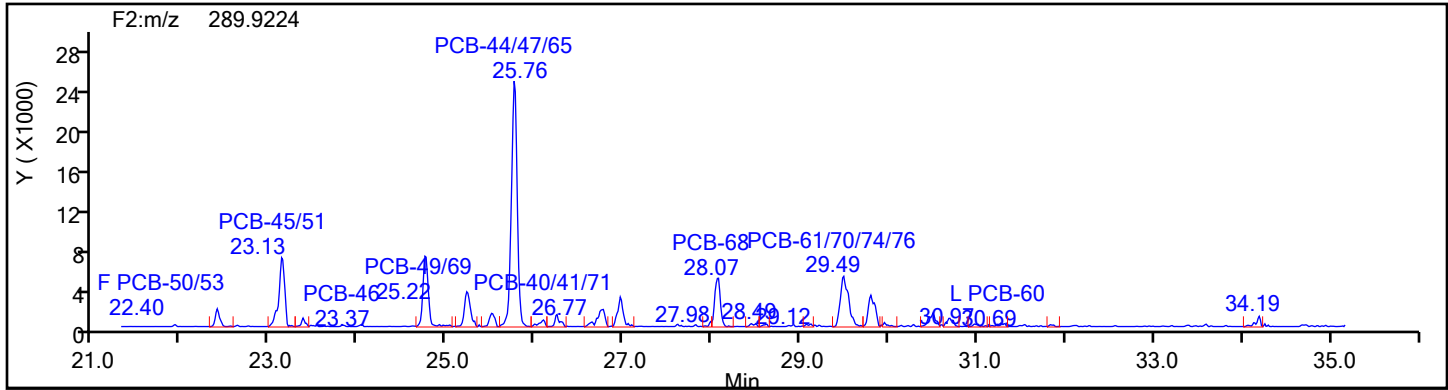


TePCB F1 Lock Mass

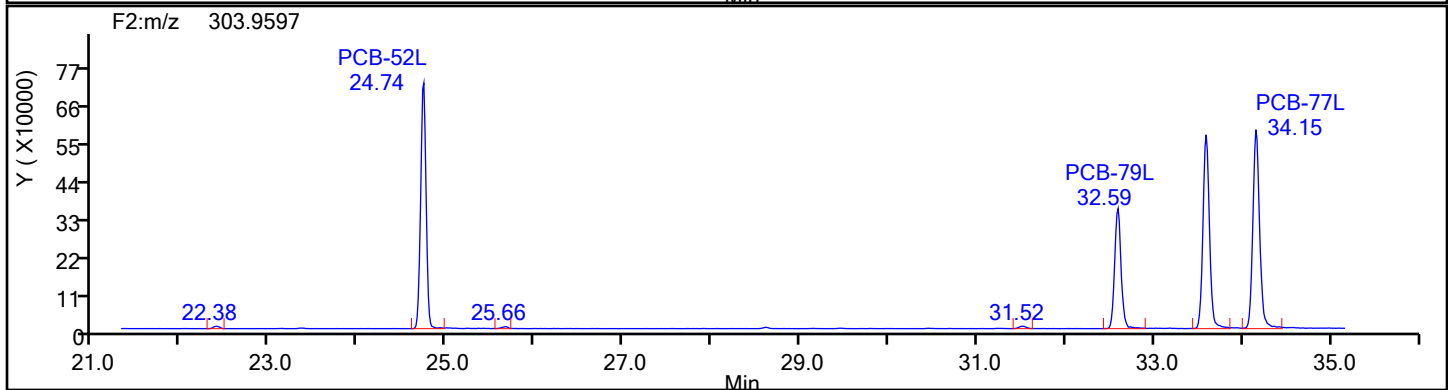
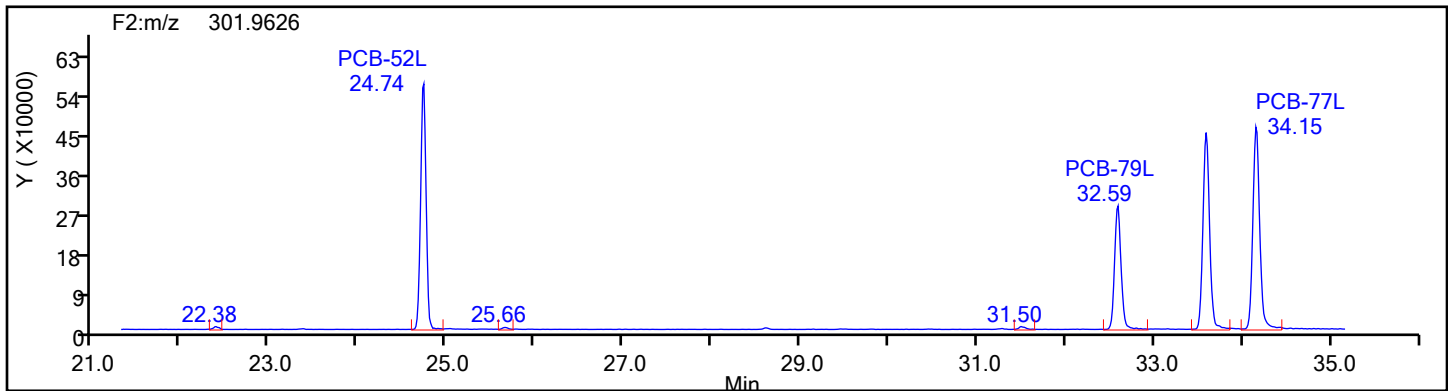


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

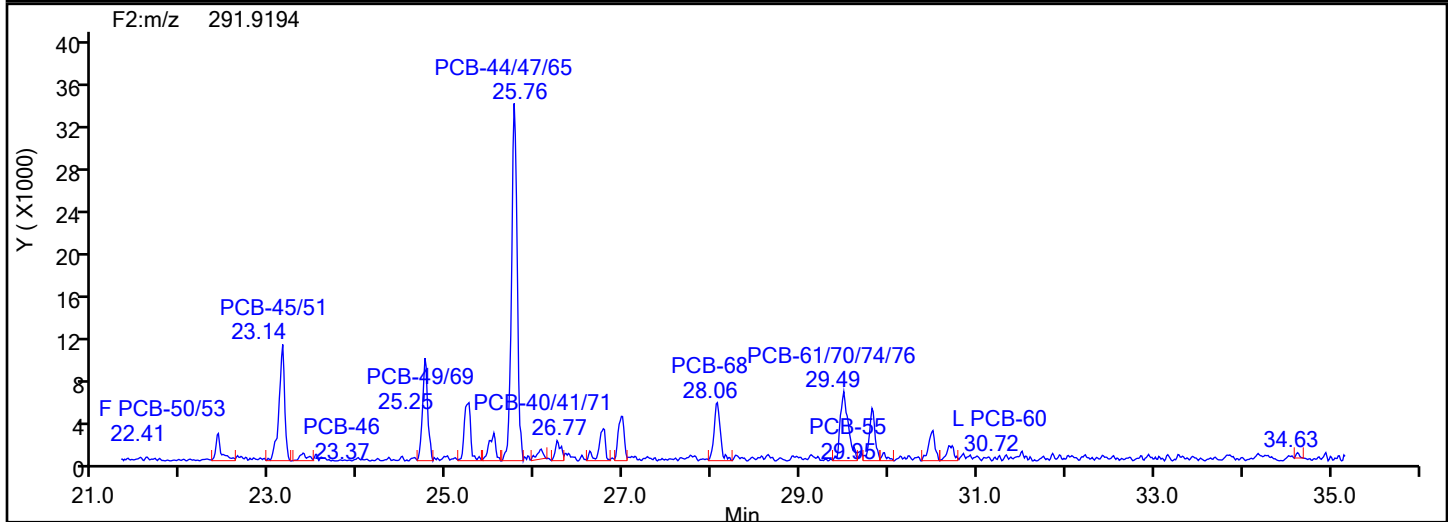
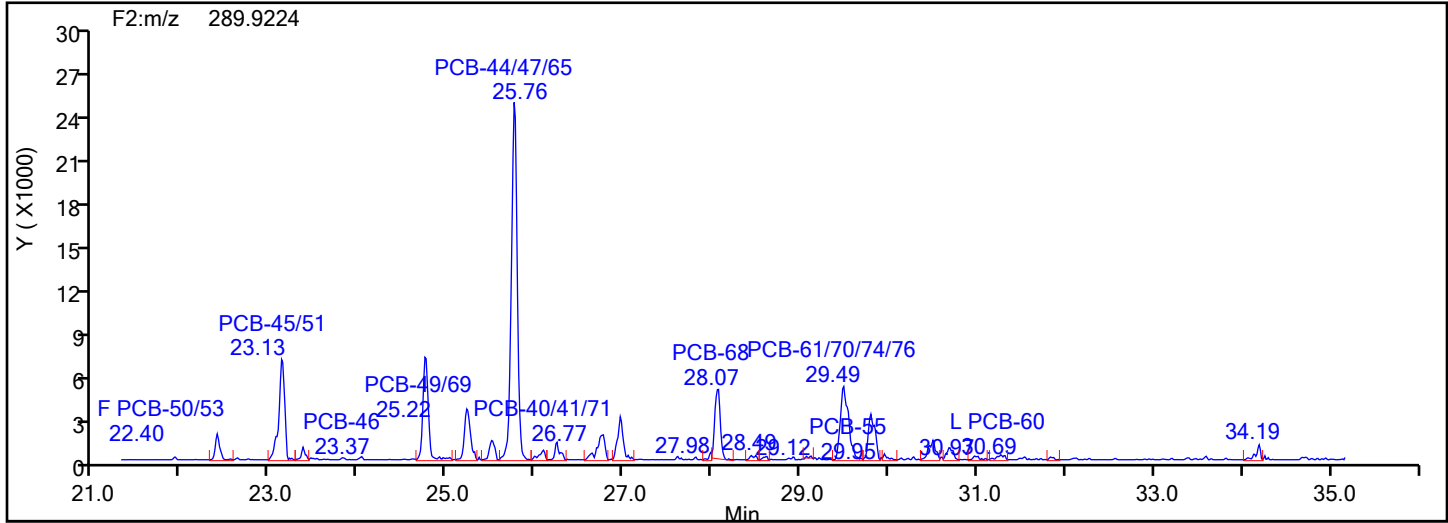


TePCB F2 Standards

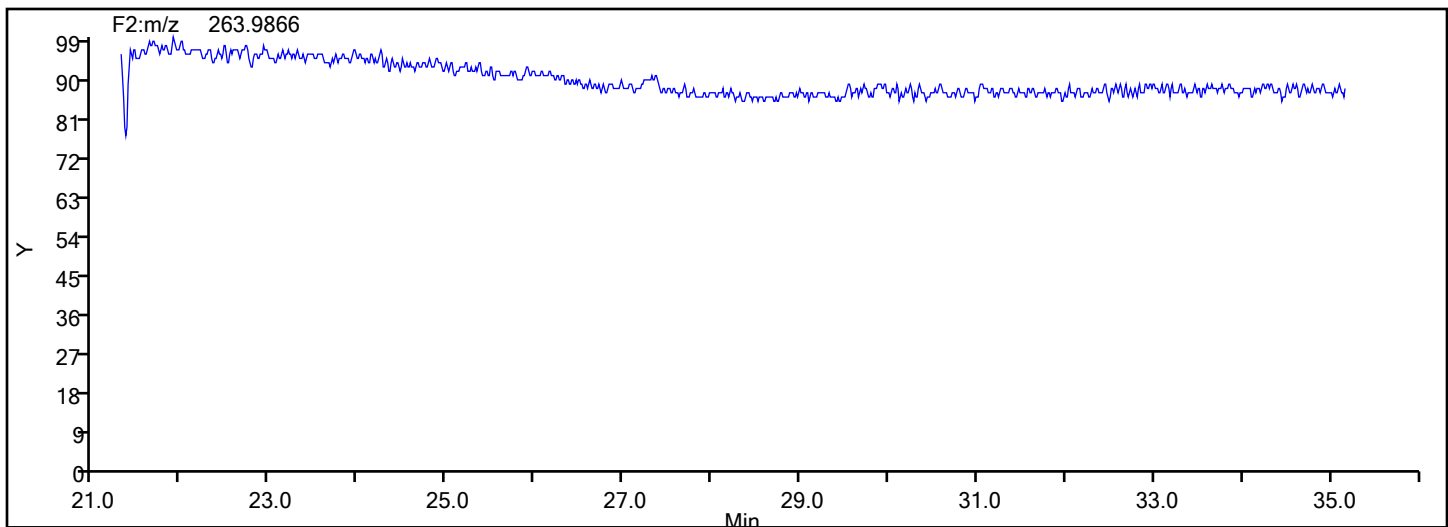


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

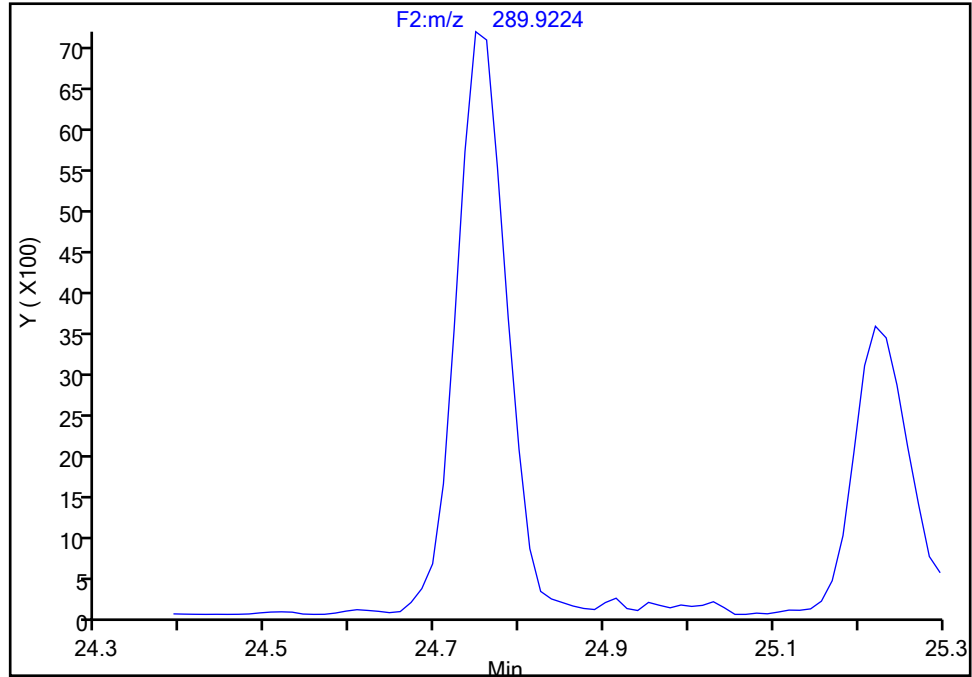
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 1

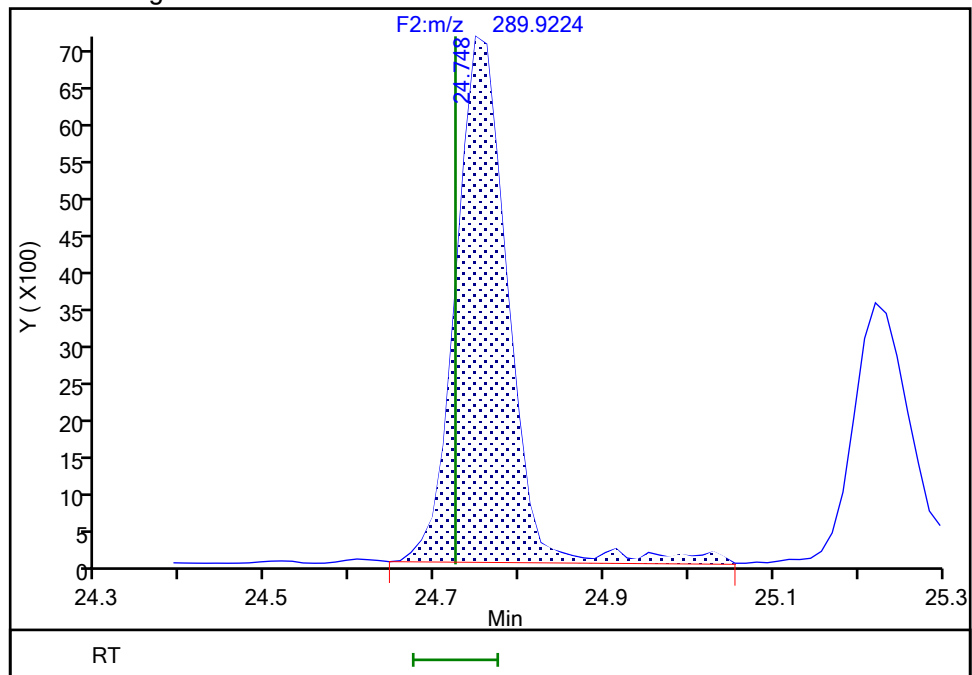
Not Detected
Expected RT: 24.72

Processing Integration Results



RT: 24.75
Area: 30427
Amount: 1.369767
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:43:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

Eurofins Knoxville

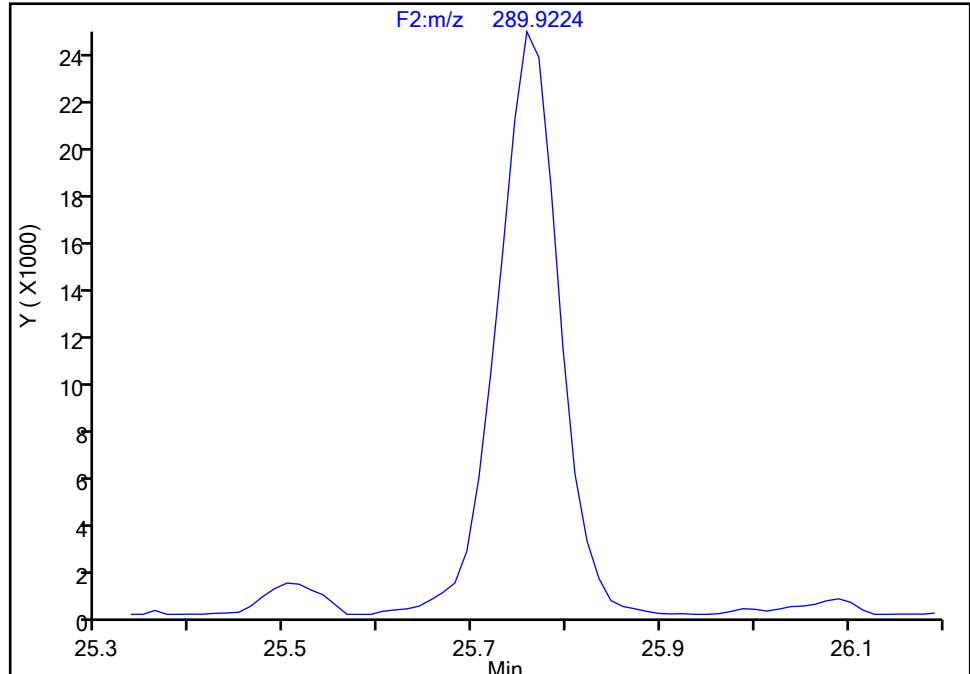
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-44/47/65, CAS: STL01803

Signal: 1

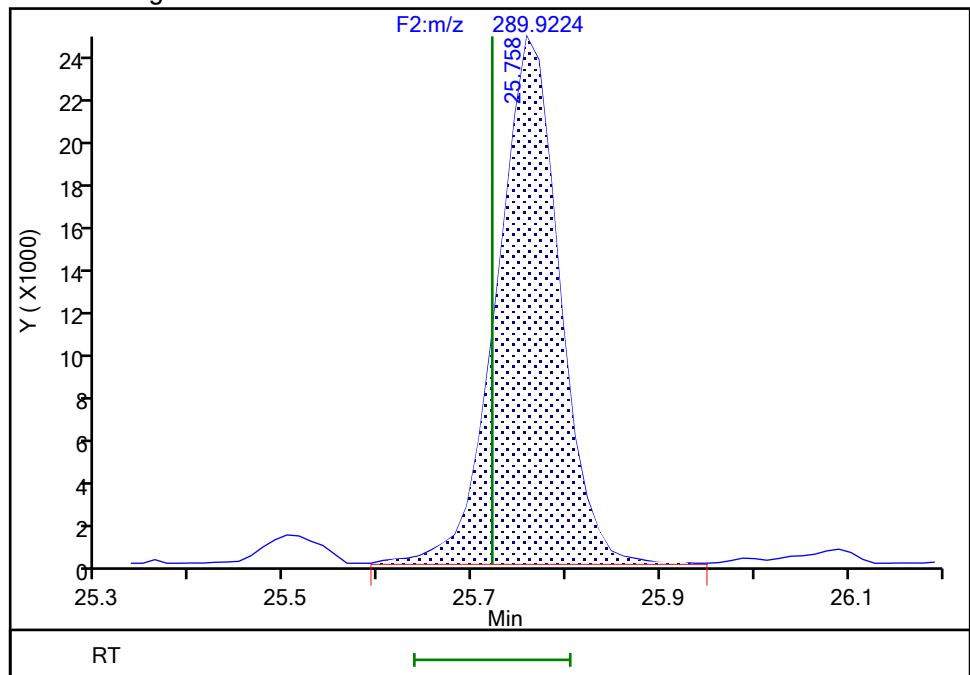
Not Detected
Expected RT: 25.72

Processing Integration Results



RT: 25.76
Area: 114441
Amount: 4.931946
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:43:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

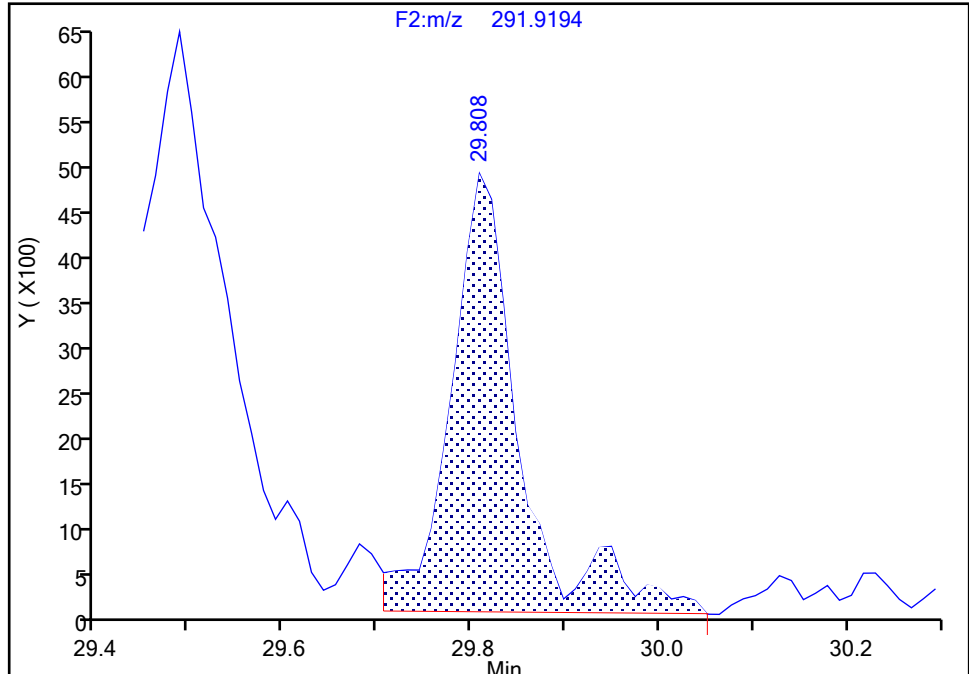
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-66, CAS: 32598-10-0

Signal: 2

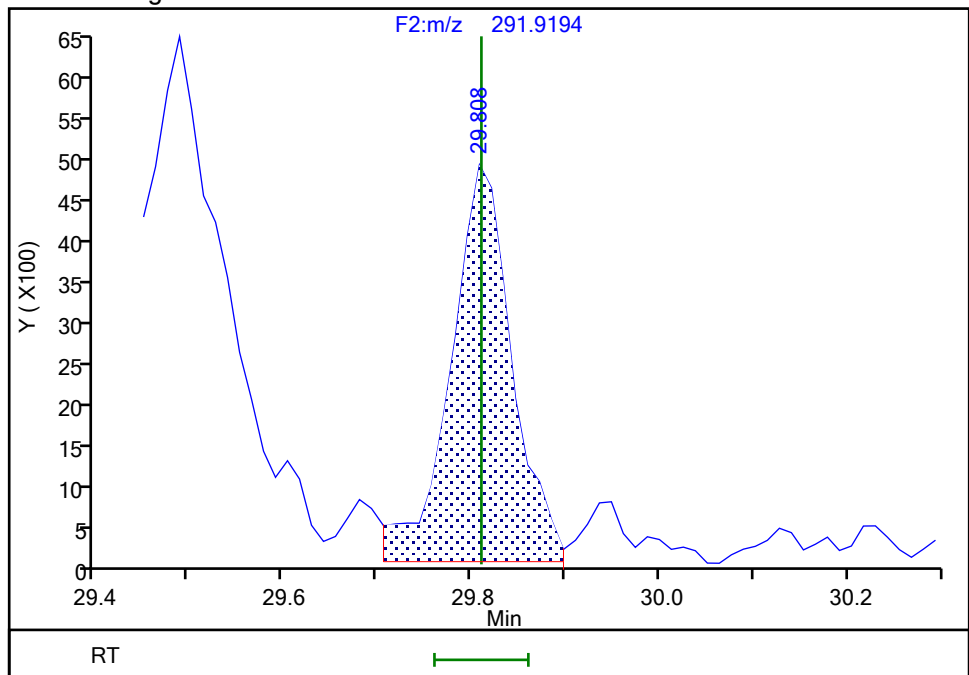
RT: 29.81
Area: 24966
Amount: 0.602941
Amount Units: pg/ul

Processing Integration Results



RT: 29.81
Area: 21953
Amount: 0.559323
Amount Units: pg/ul

Manual Integration Results



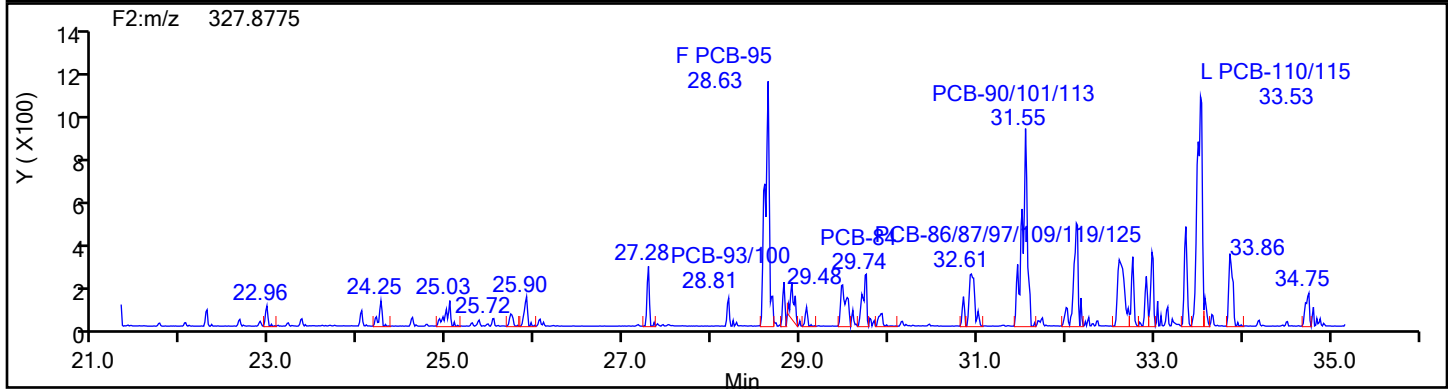
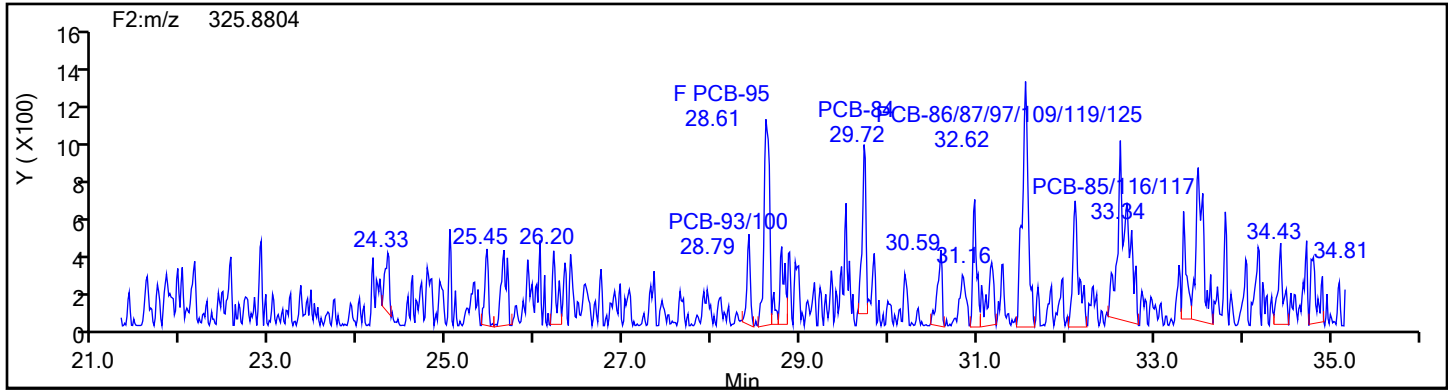
Reviewer: V4XA, 17-Jul-2024 01:53:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

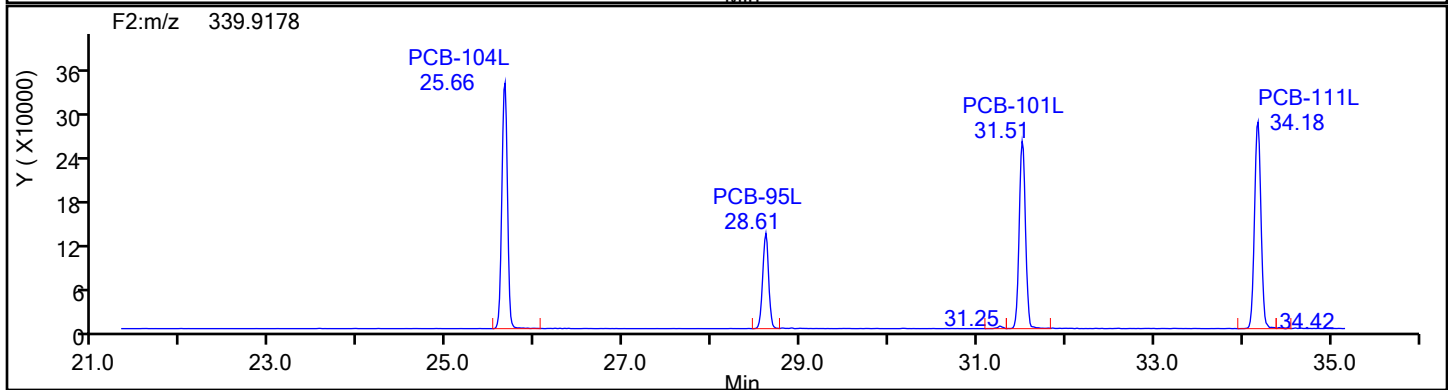
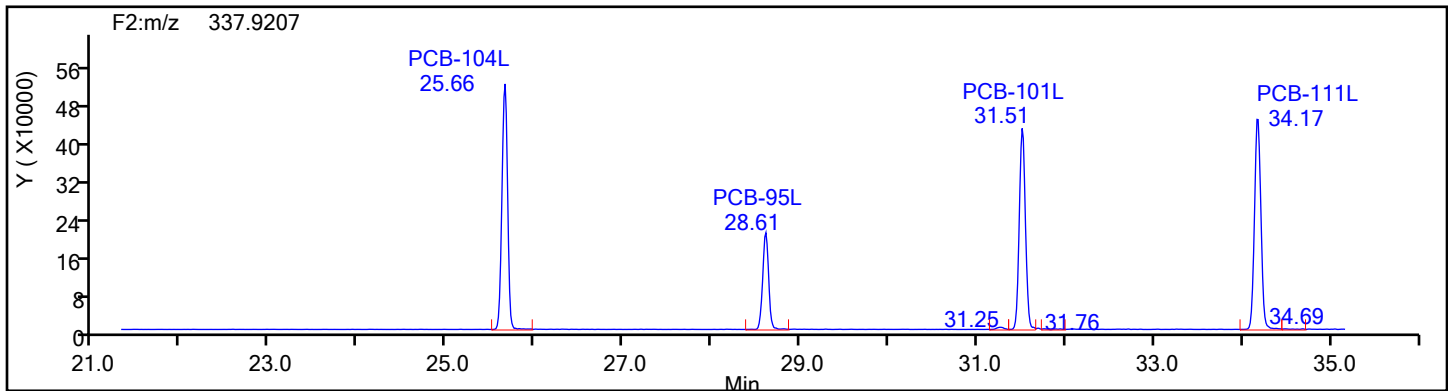
Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

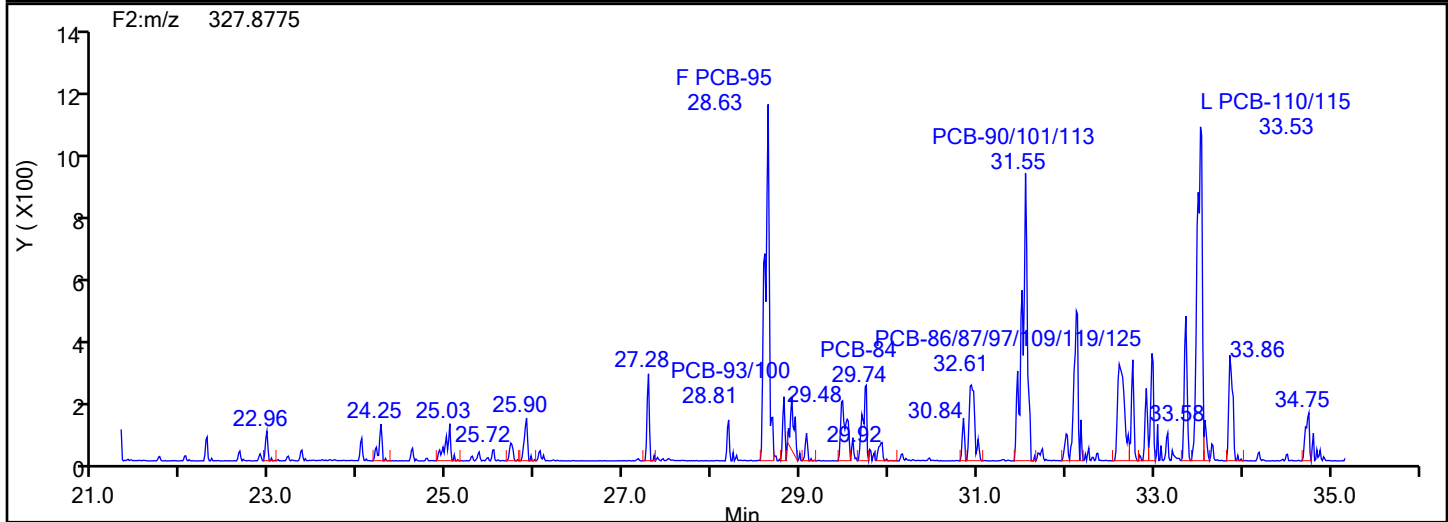
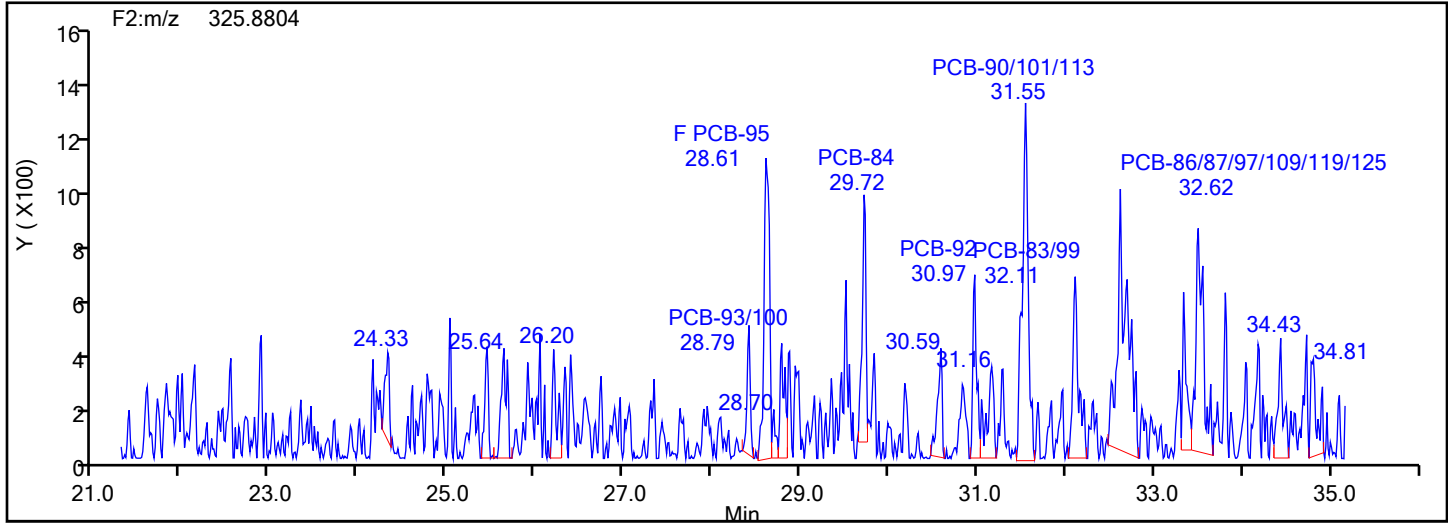


PePCB F2 Standards

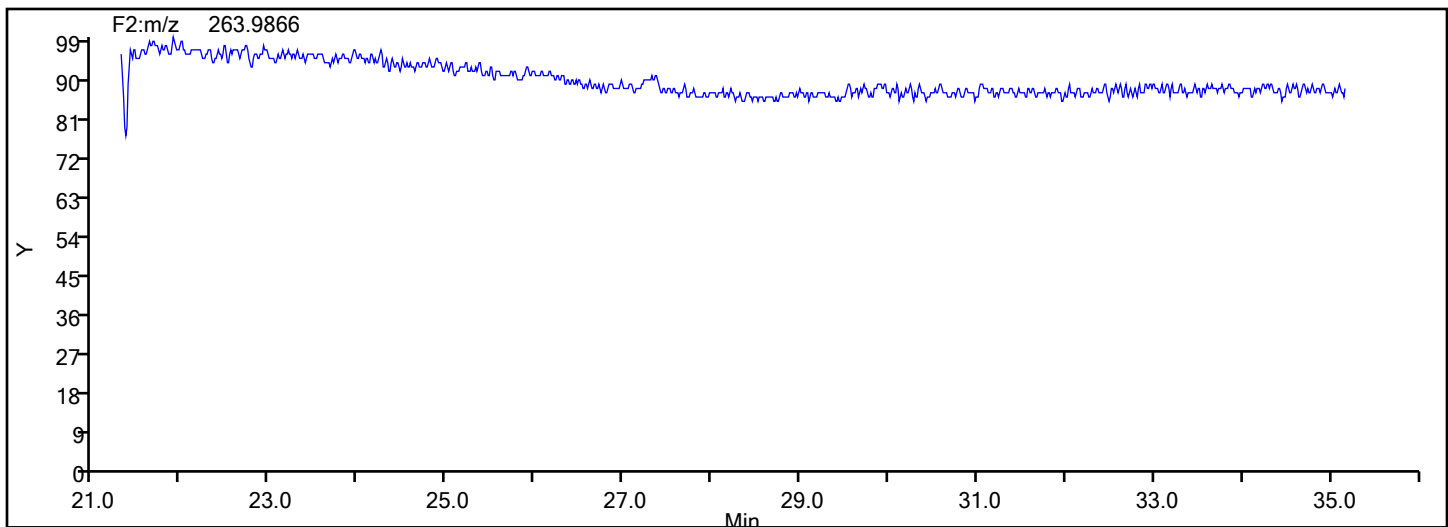


Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

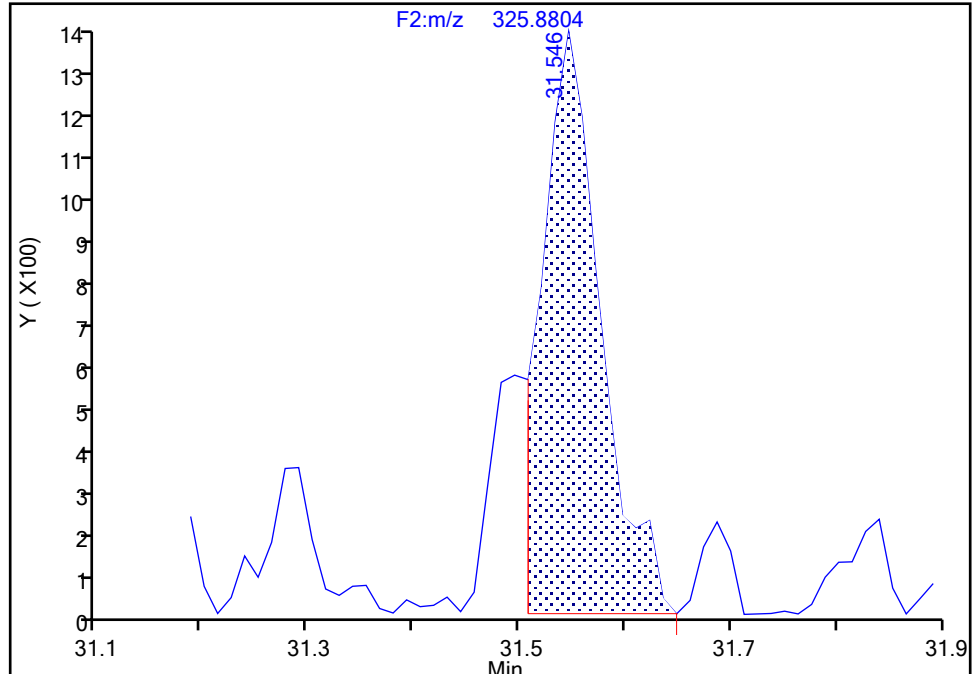
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 1

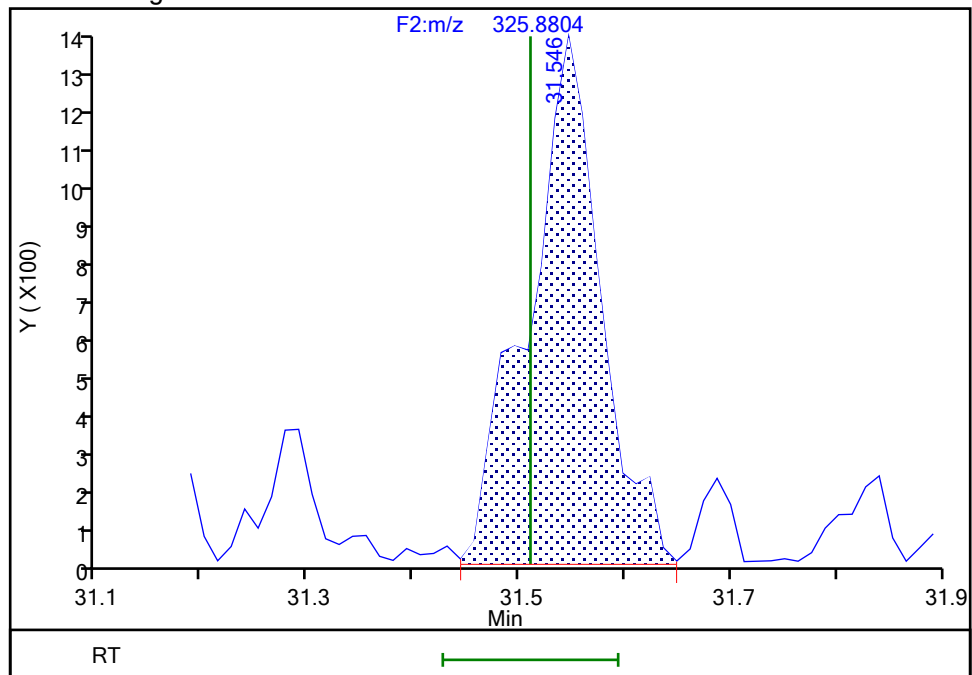
RT: 31.55
Area: 4831
Amount: 0.235857
Amount Units: pg/ul

Processing Integration Results



RT: 31.55
Area: 6154
Amount: 0.272175
Amount Units: pg/ul

Manual Integration Results



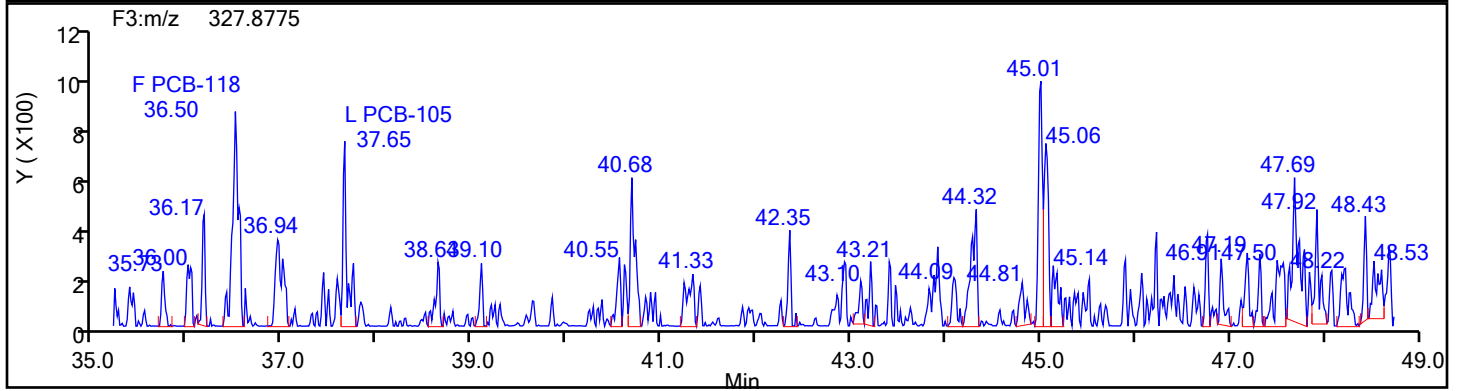
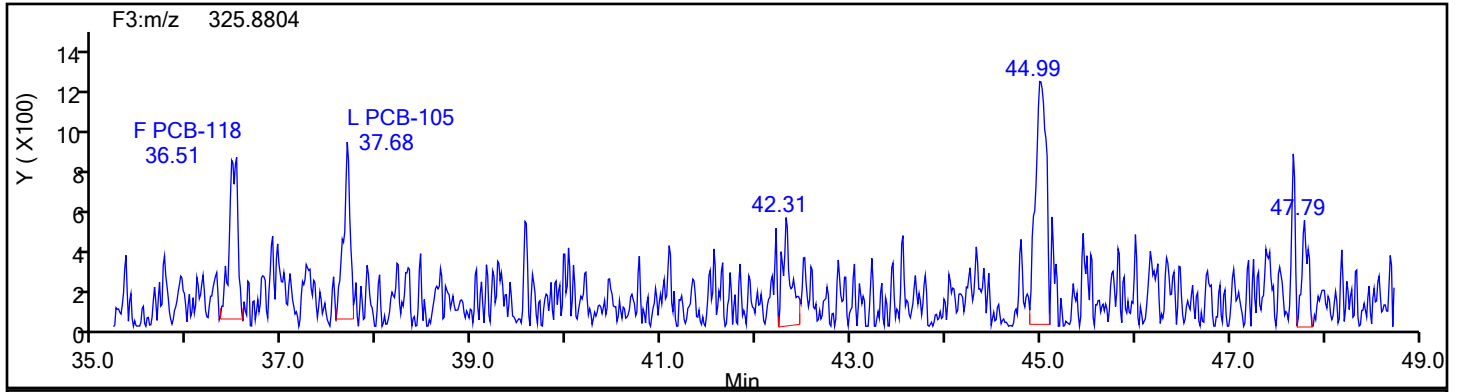
Reviewer: V4XA, 17-Jul-2024 01:55:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

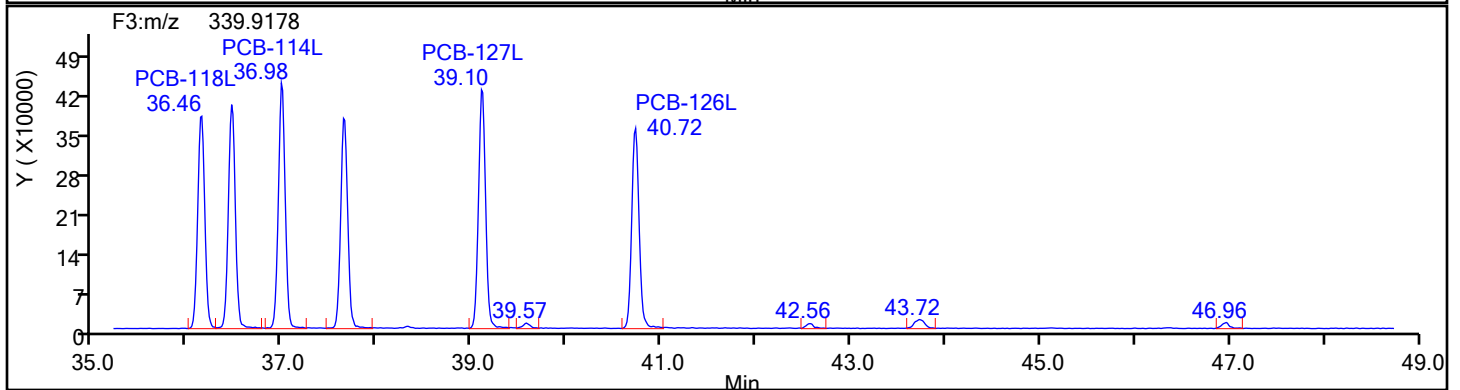
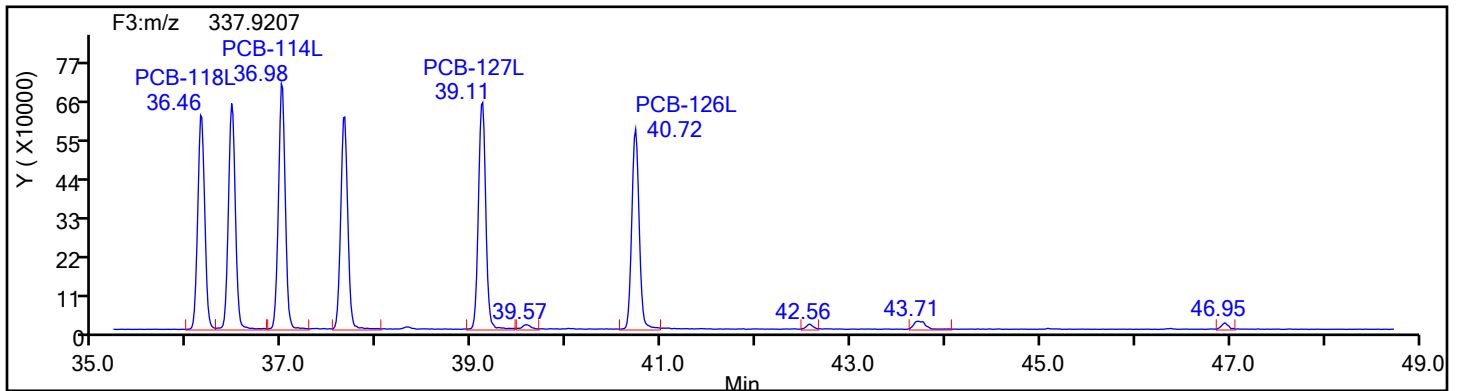
Audit Reason: Baseline

Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

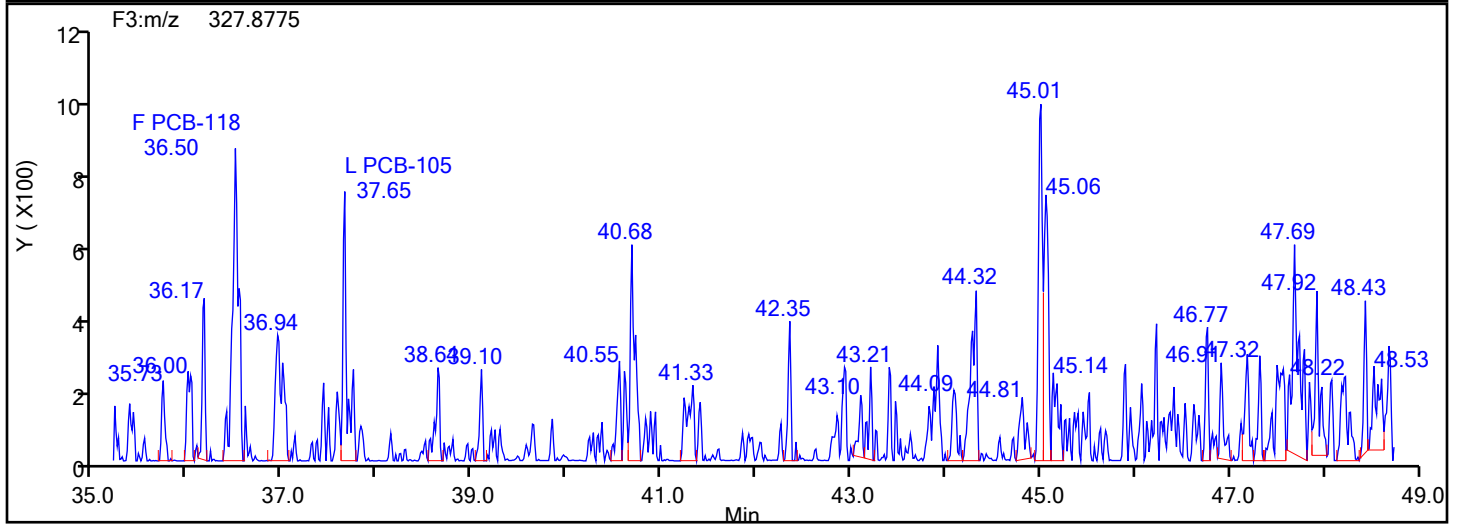
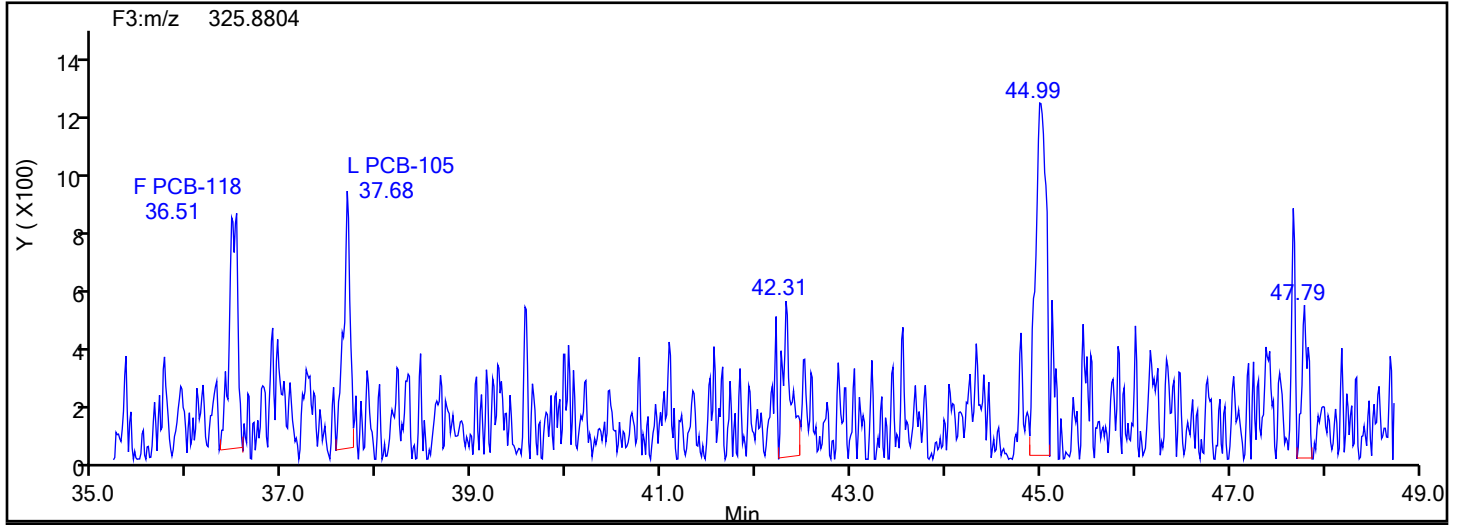


PePCB F3 Standards

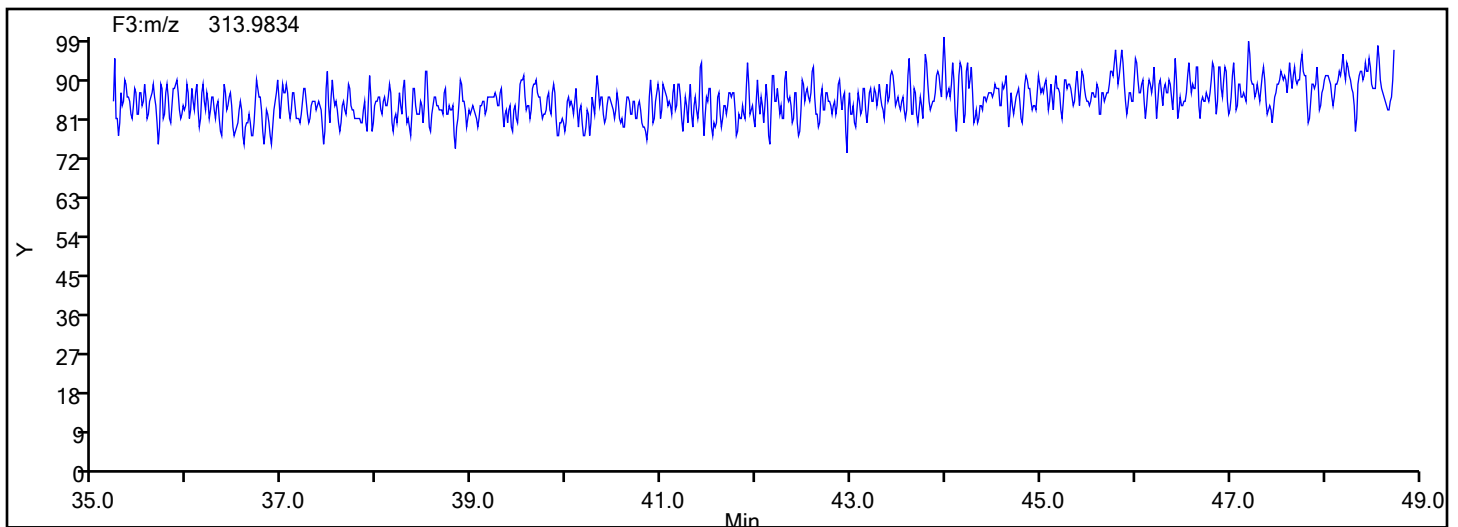


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

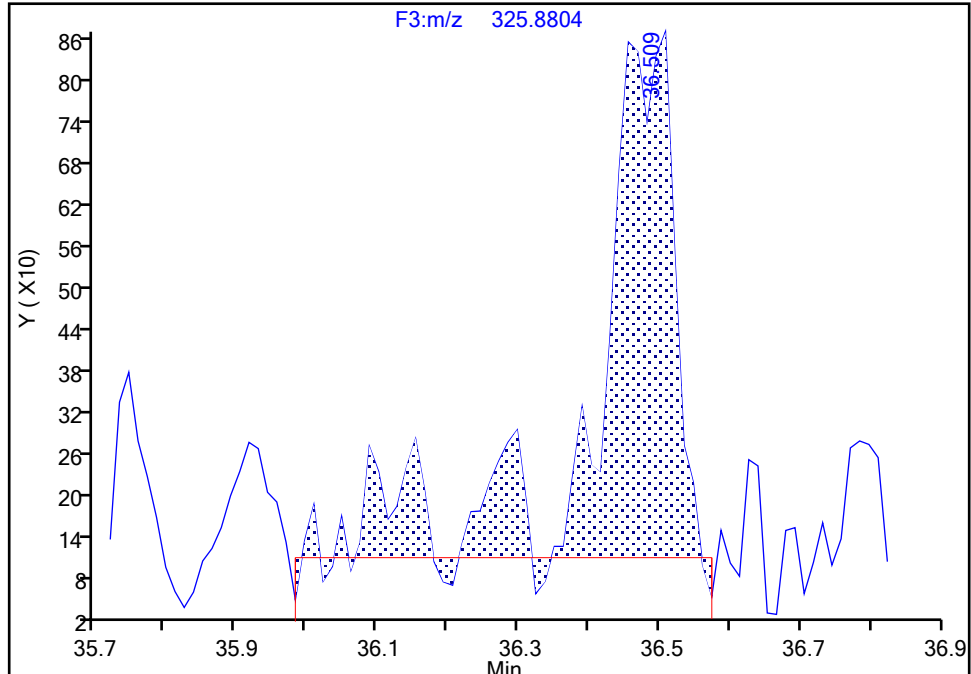
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-118, CAS: 31508-00-6

Signal: 1

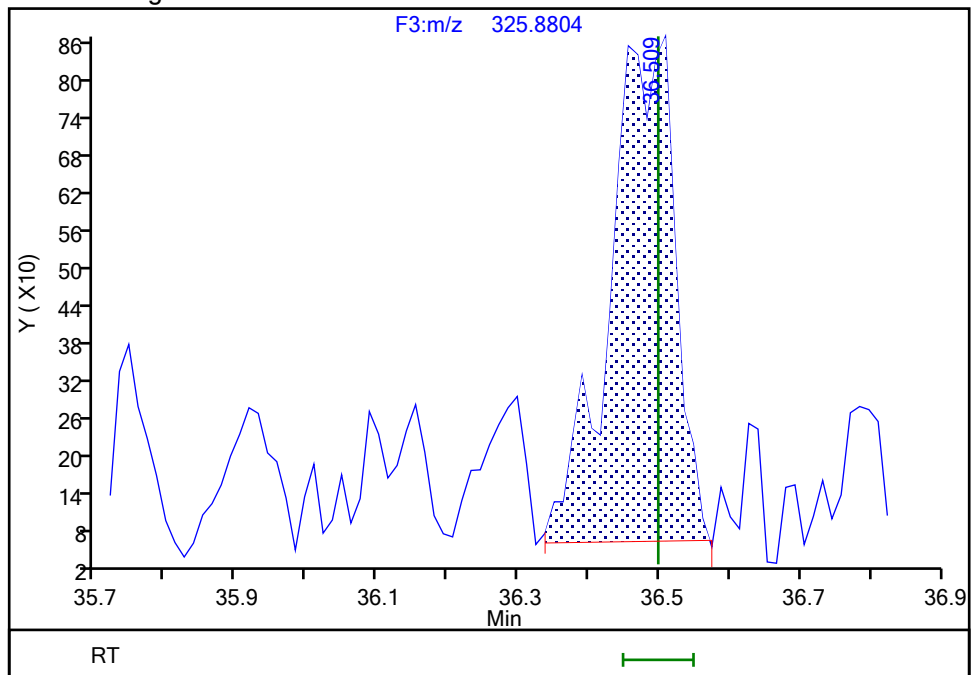
RT: 36.51
Area: 5754
Amount: 0.147767
Amount Units: pg/ul

Processing Integration Results



RT: 36.51
Area: 5196
Amount: 0.139170
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:55:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

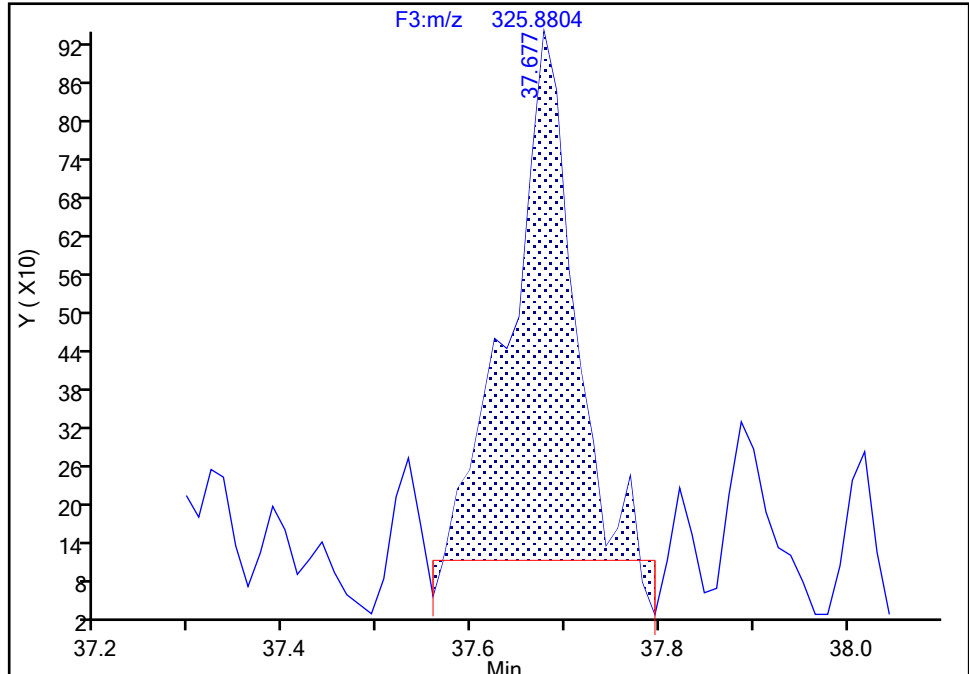
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 1

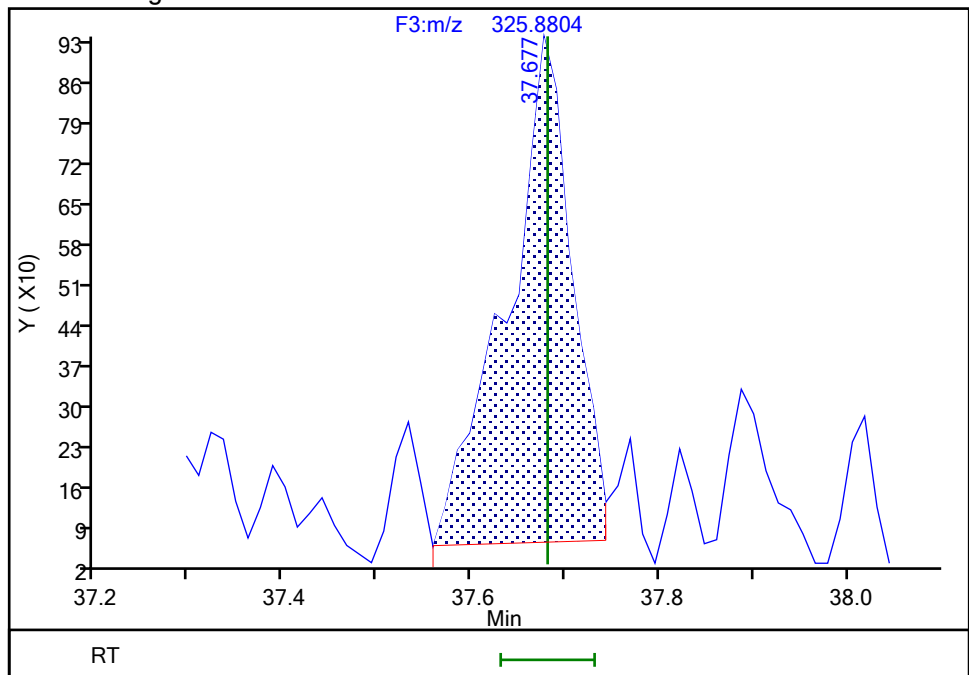
RT: 37.68
Area: 3823
Amount: 0.094629
Amount Units: pg/ul

Processing Integration Results



RT: 37.68
Area: 4249
Amount: 0.106887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:55:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

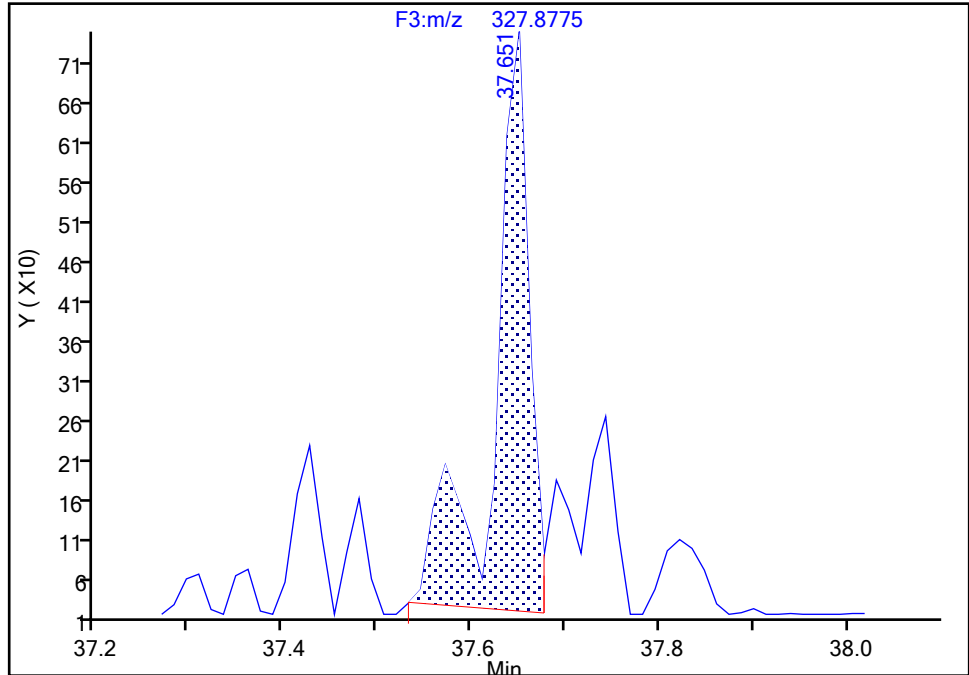
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

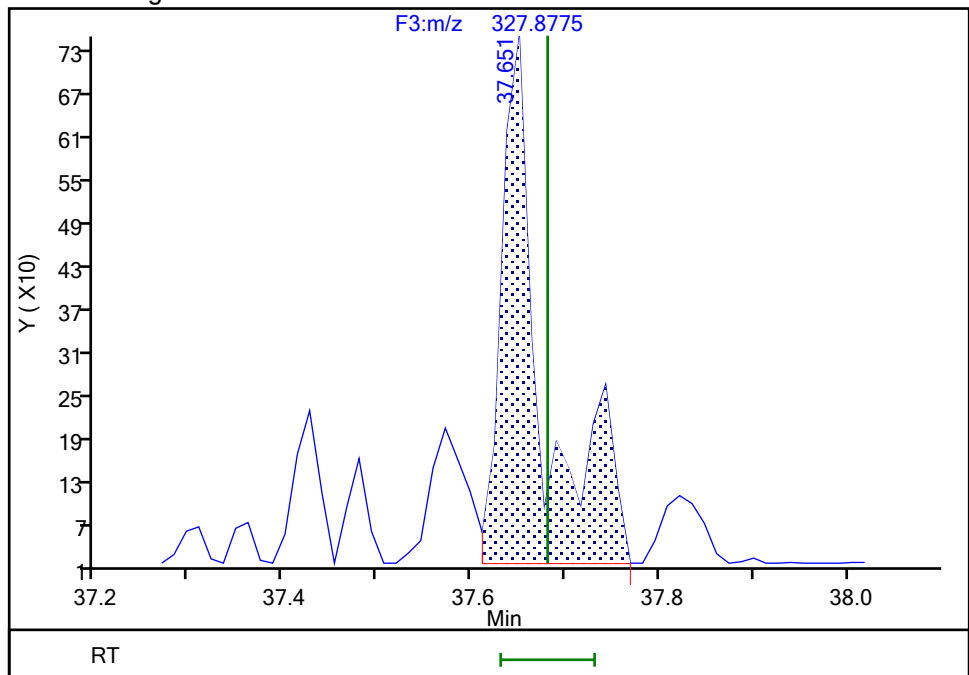
RT: 37.65
Area: 1882
Amount: 0.094629
Amount Units: pg/ul

Processing Integration Results



RT: 37.65
Area: 2195
Amount: 0.106887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:55:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1587 of 3050

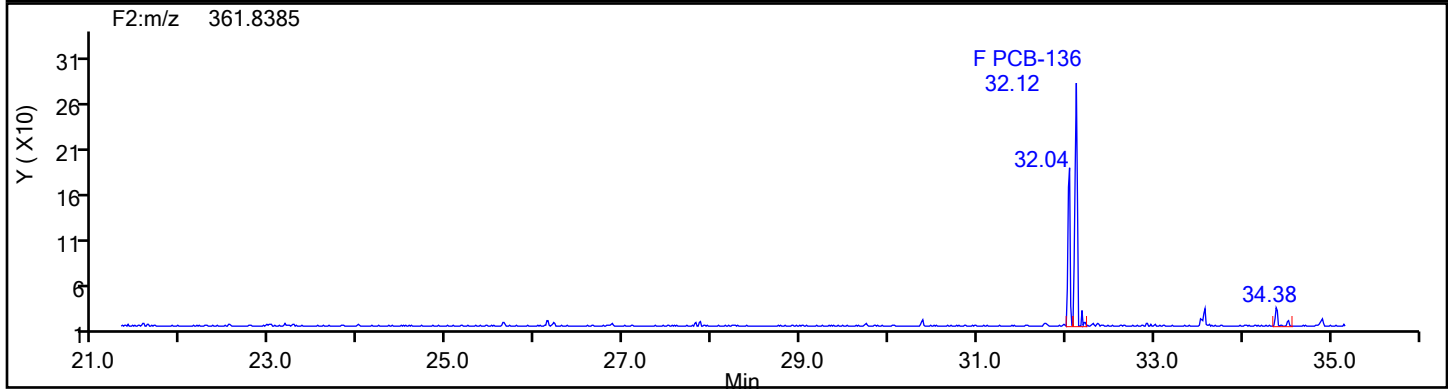
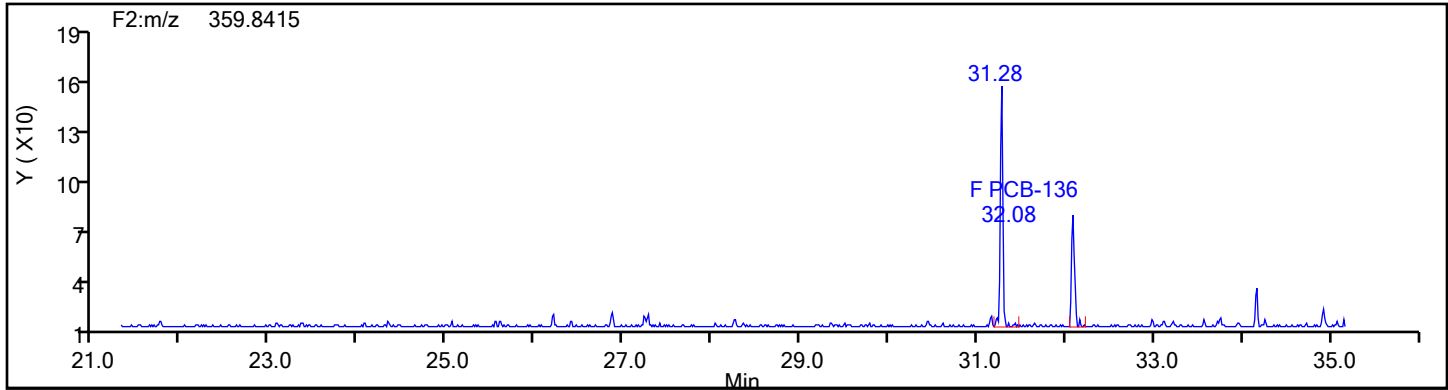
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9/6/2024

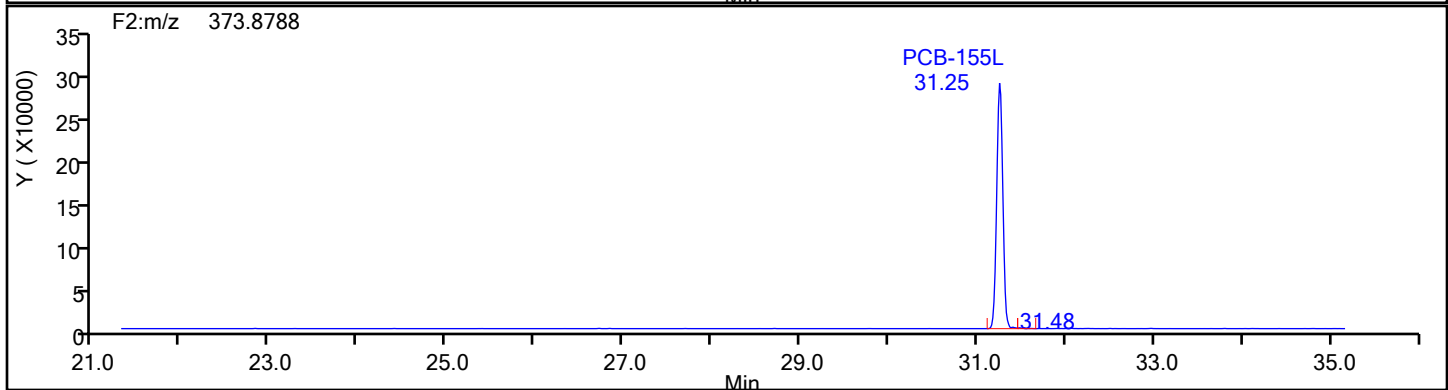
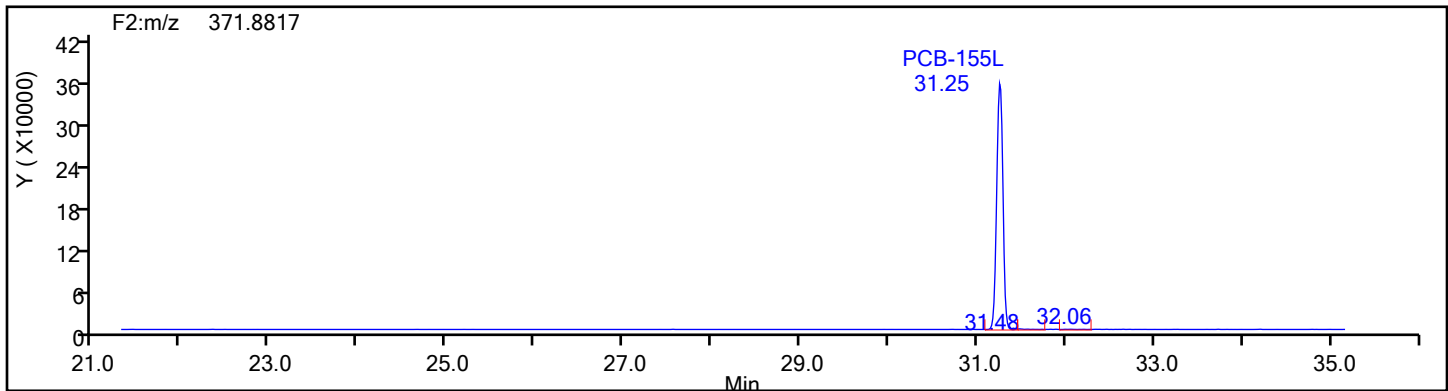
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

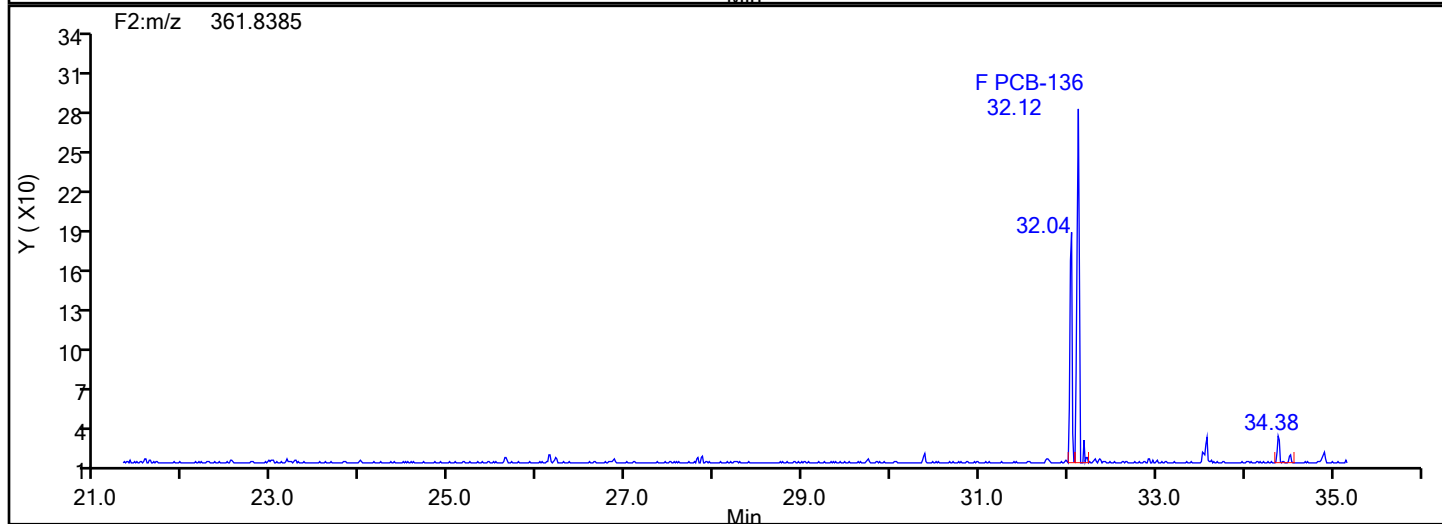
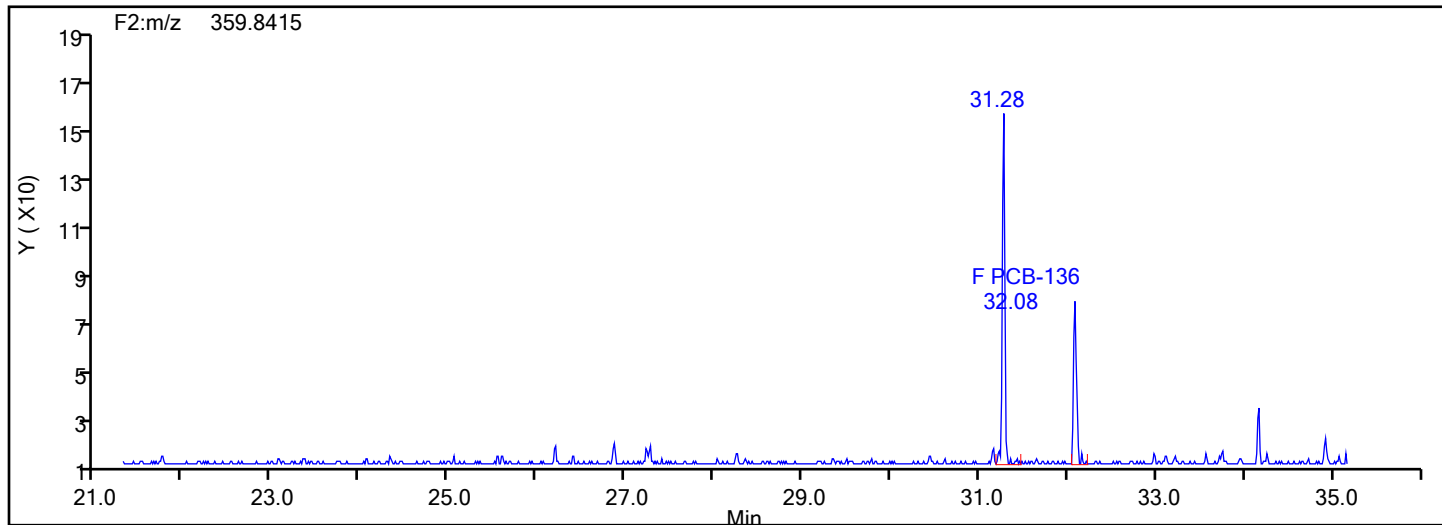


HxPCB F2 Standards

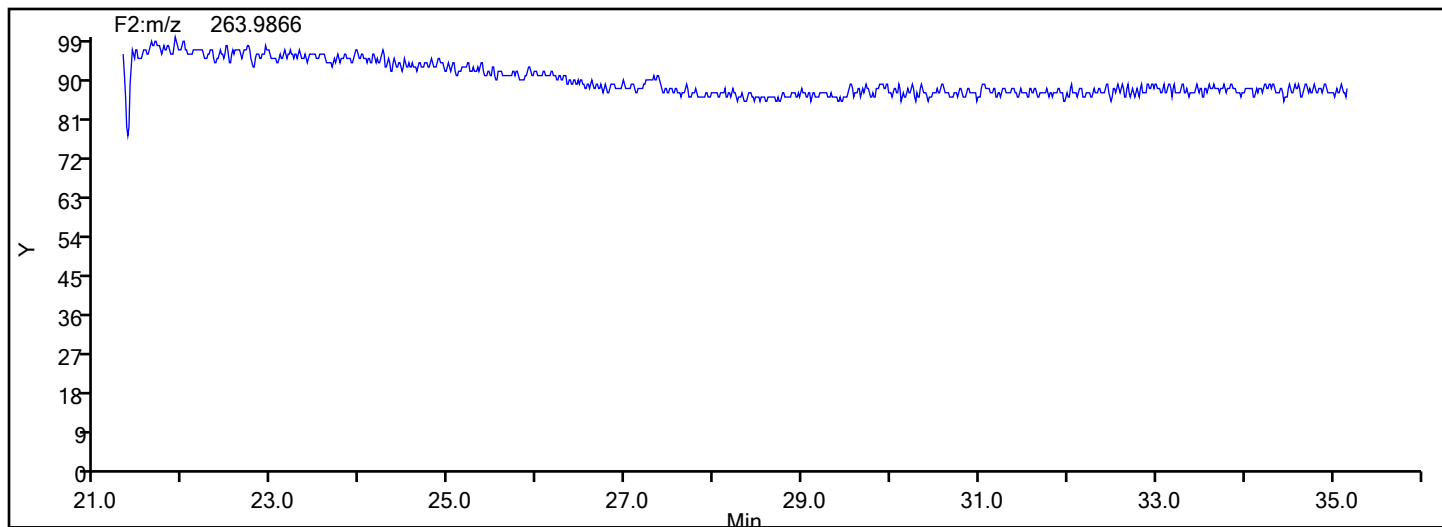


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

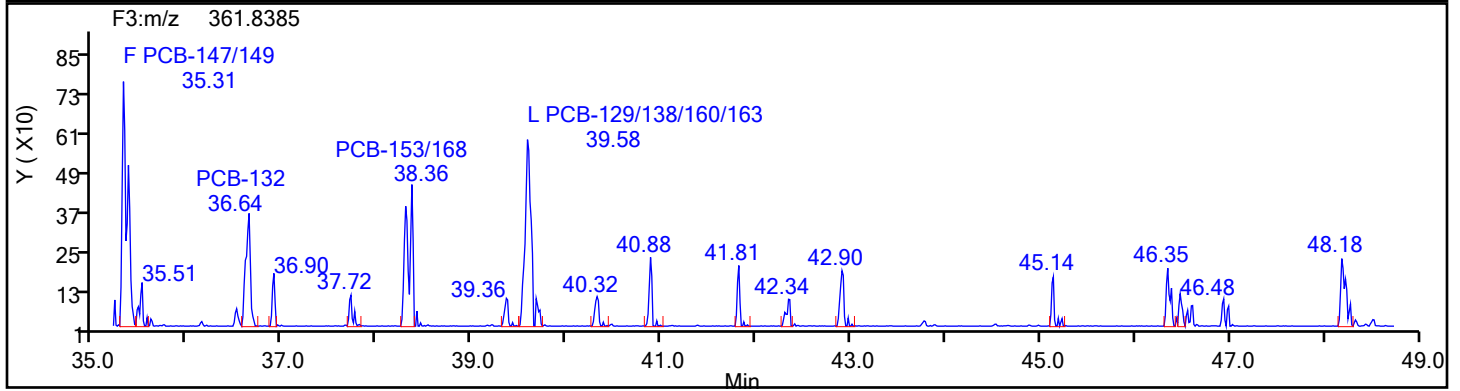
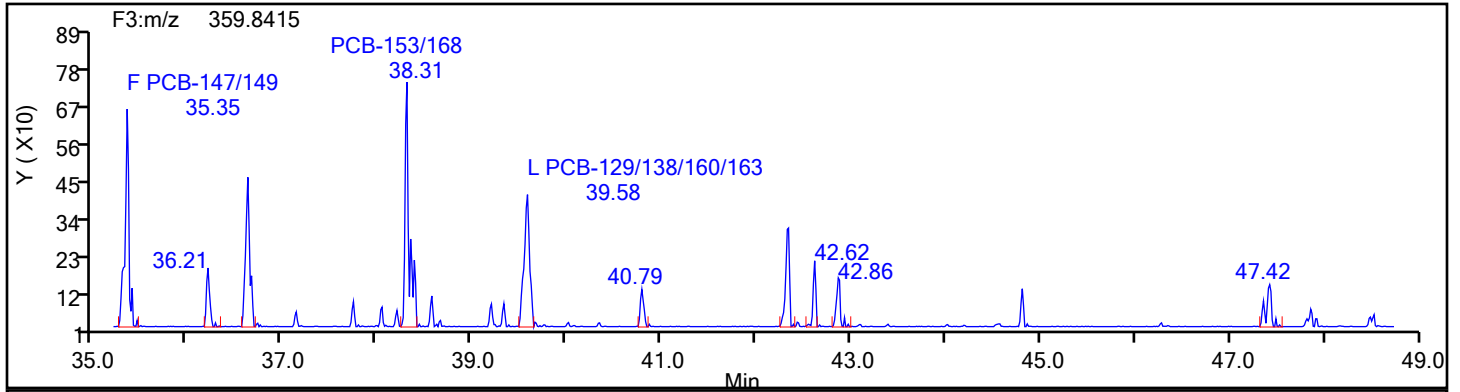


HxPCB F2 Lock Mass

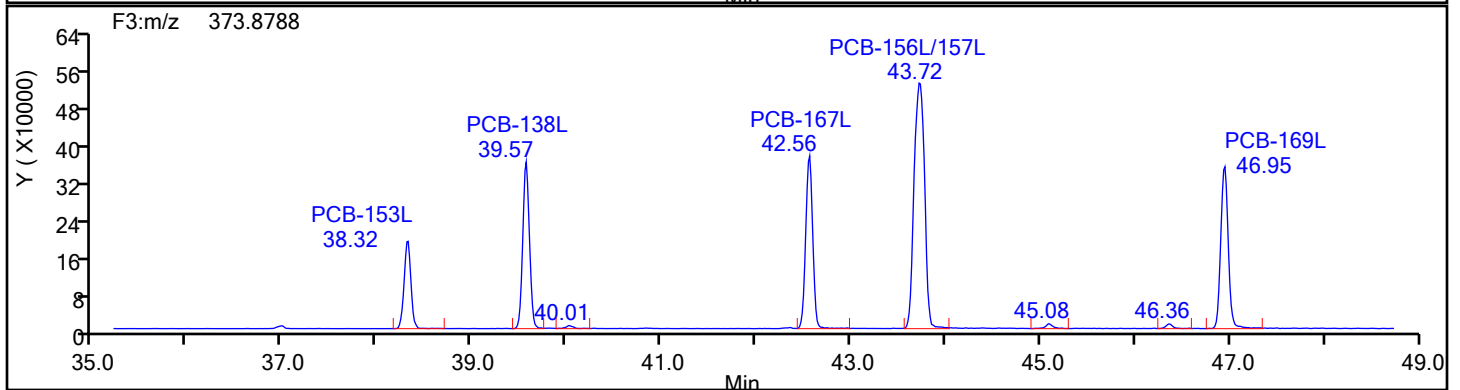
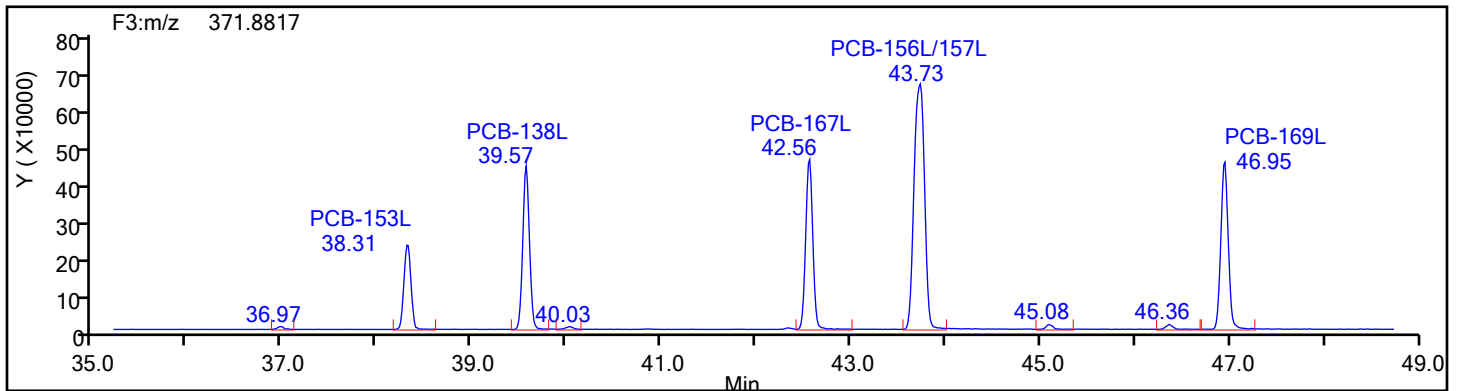


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

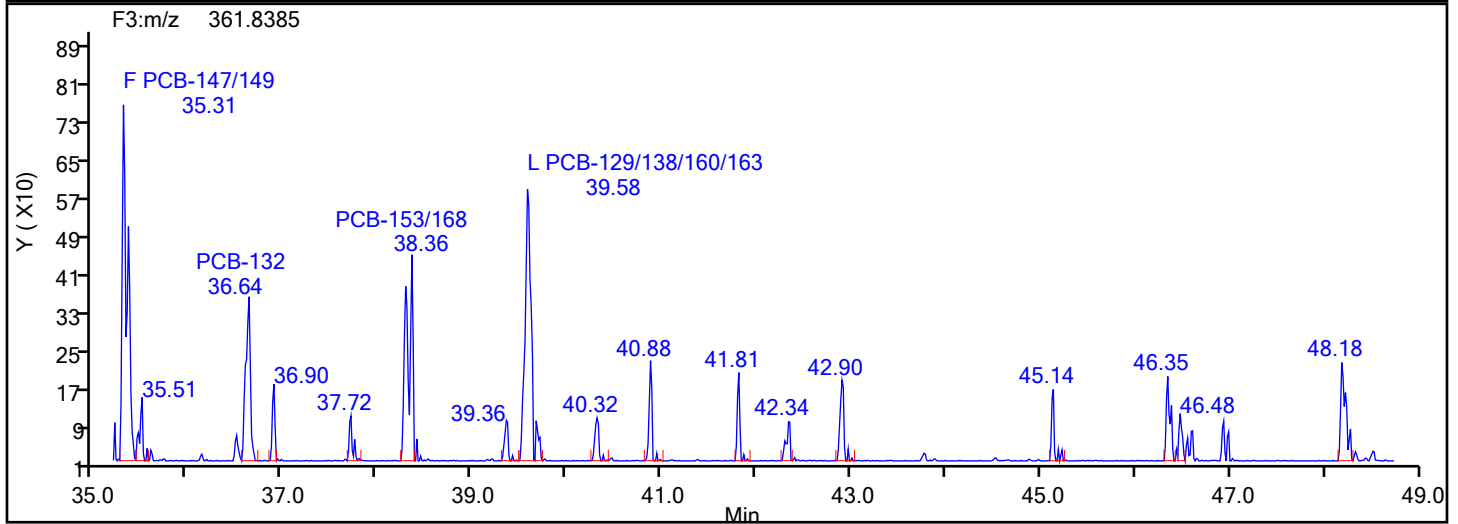
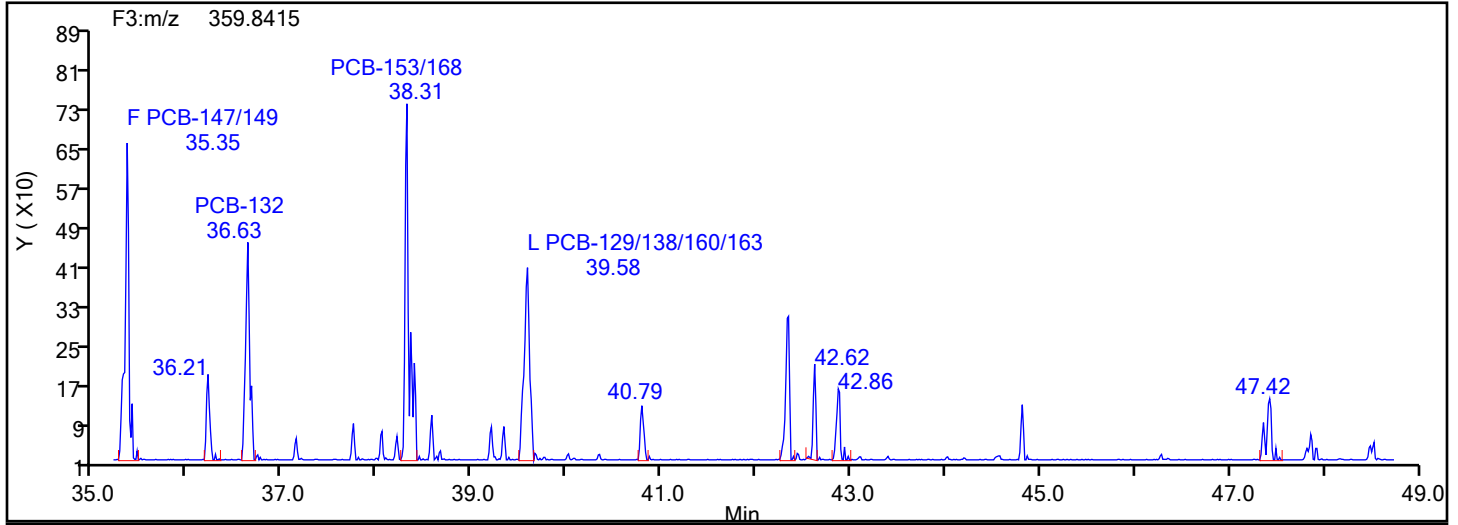


HxPCB F3 Standards

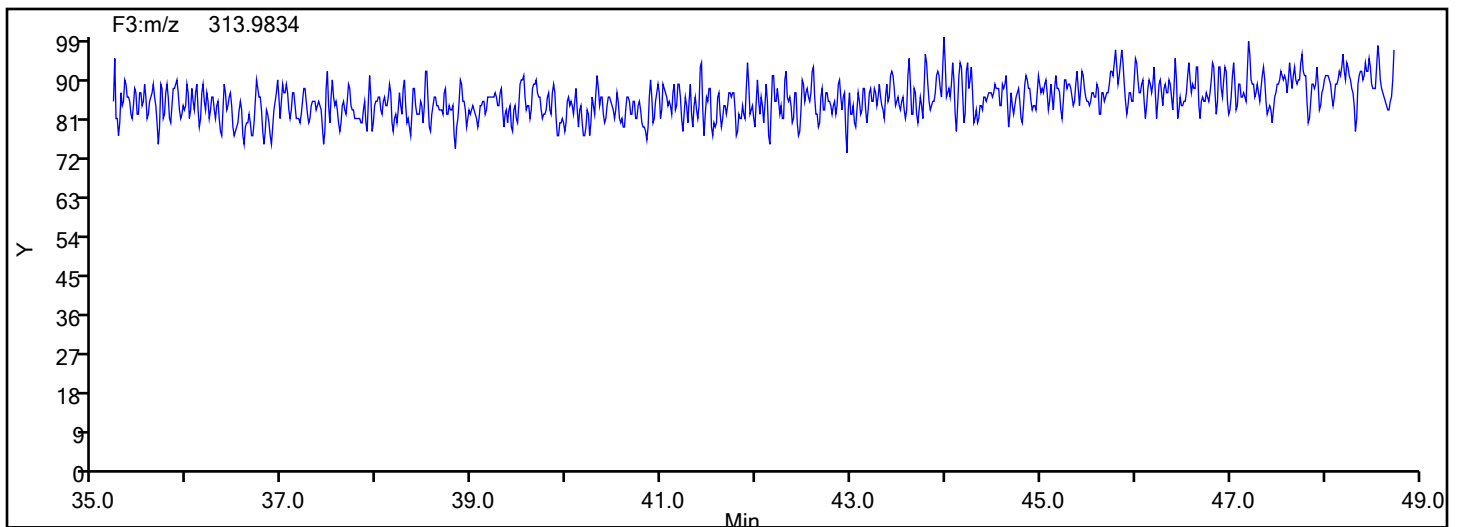


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

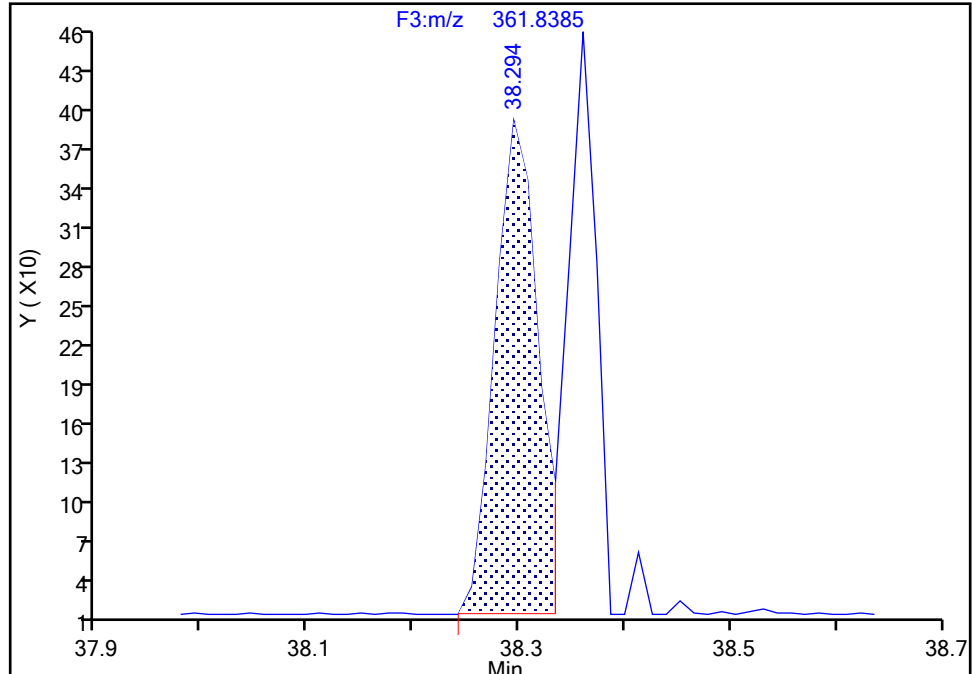
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Injection Date: 16-Jul-2024 10:05:00 Instrument ID: D2D
Lims ID: 140-37232-A-8-D Lab Sample ID: 140-37232-8
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 2

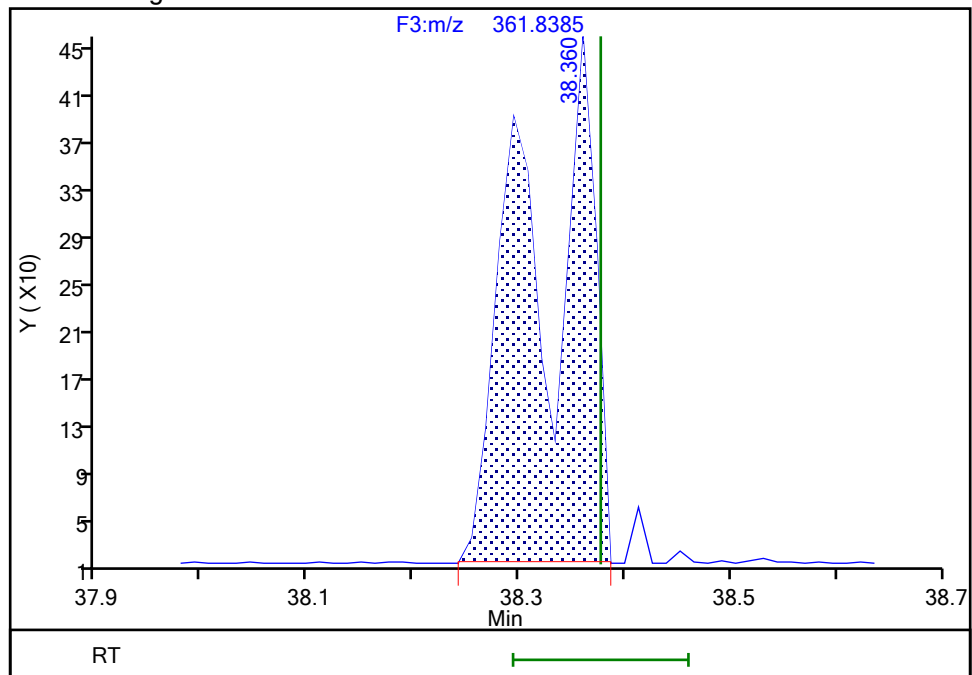
RT: 38.29
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Amount: 0.064975
Amount Units: pg/ul

Processing Integration Results



RT: 38.36
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Amount: 0.080763
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 17-Jul-2024 01:56:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d

Injection Date: 16-Jul-2024 10:05:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

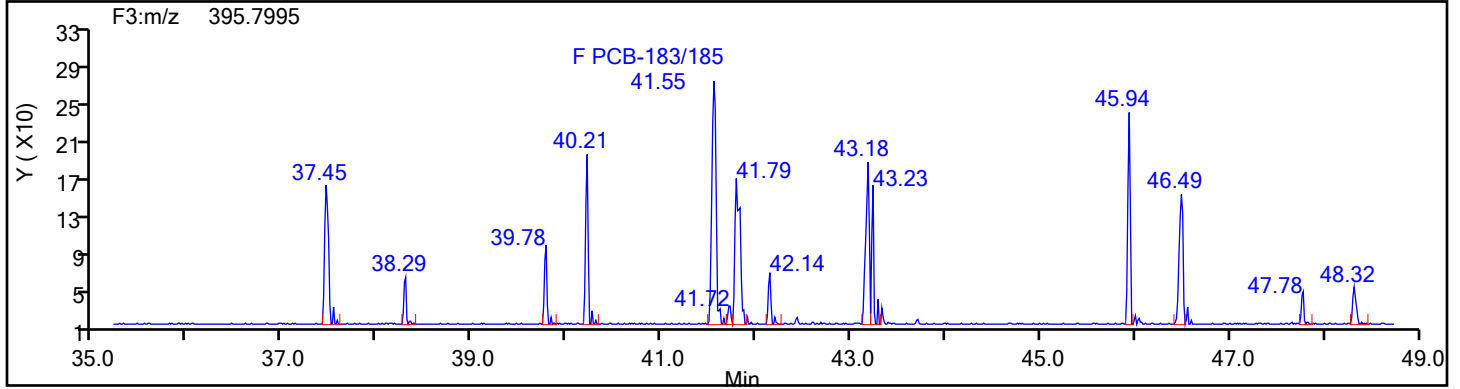
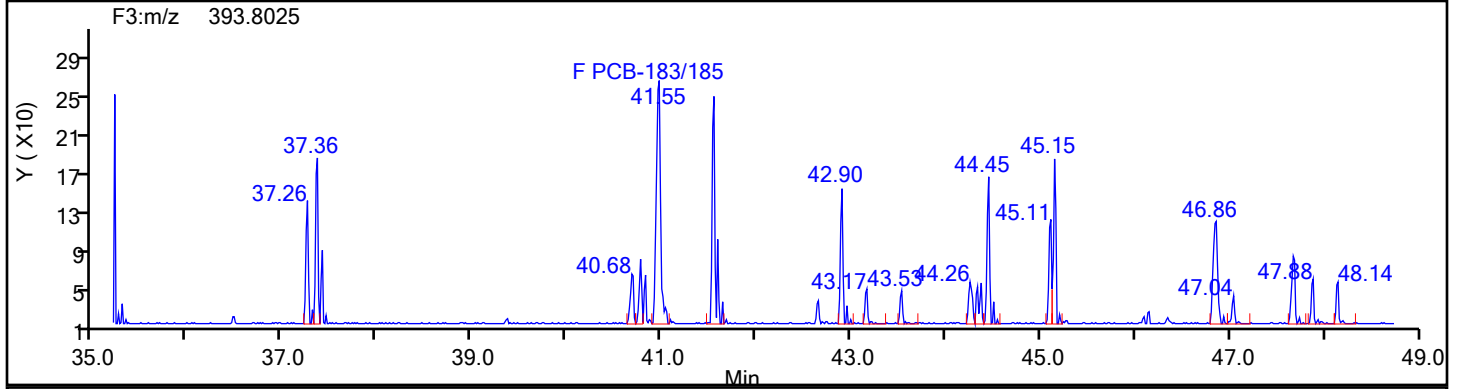
Worklist#: 88780

Sample Line#: 13

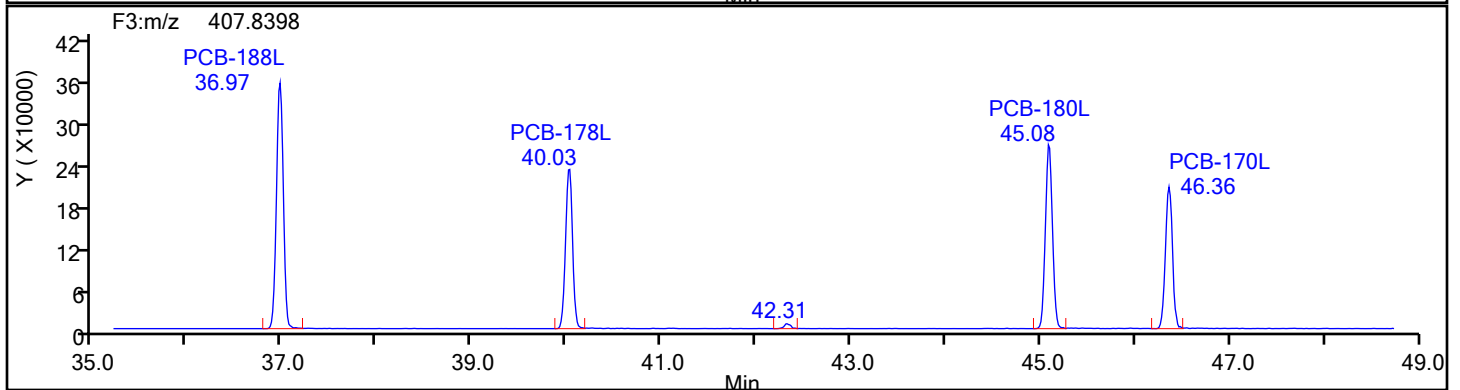
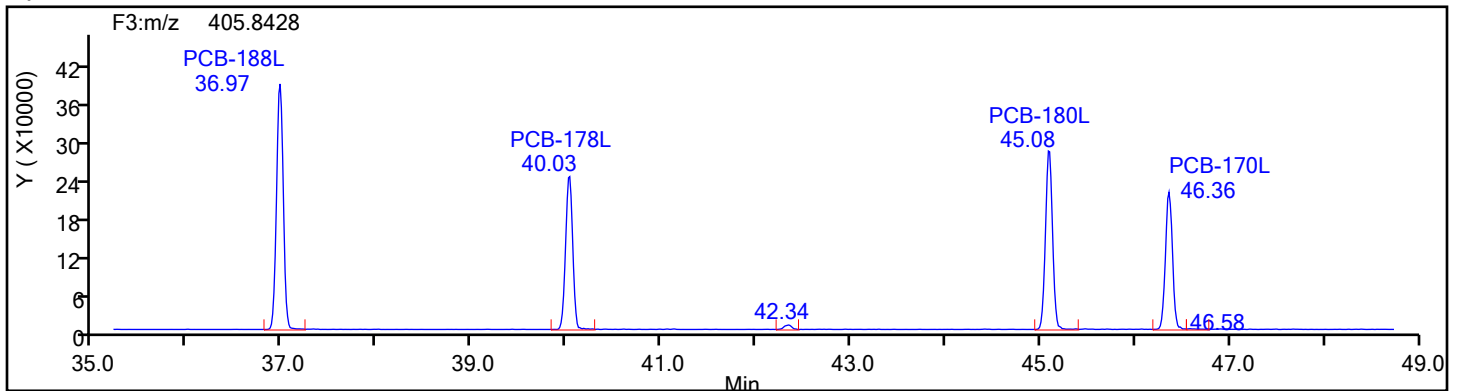
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

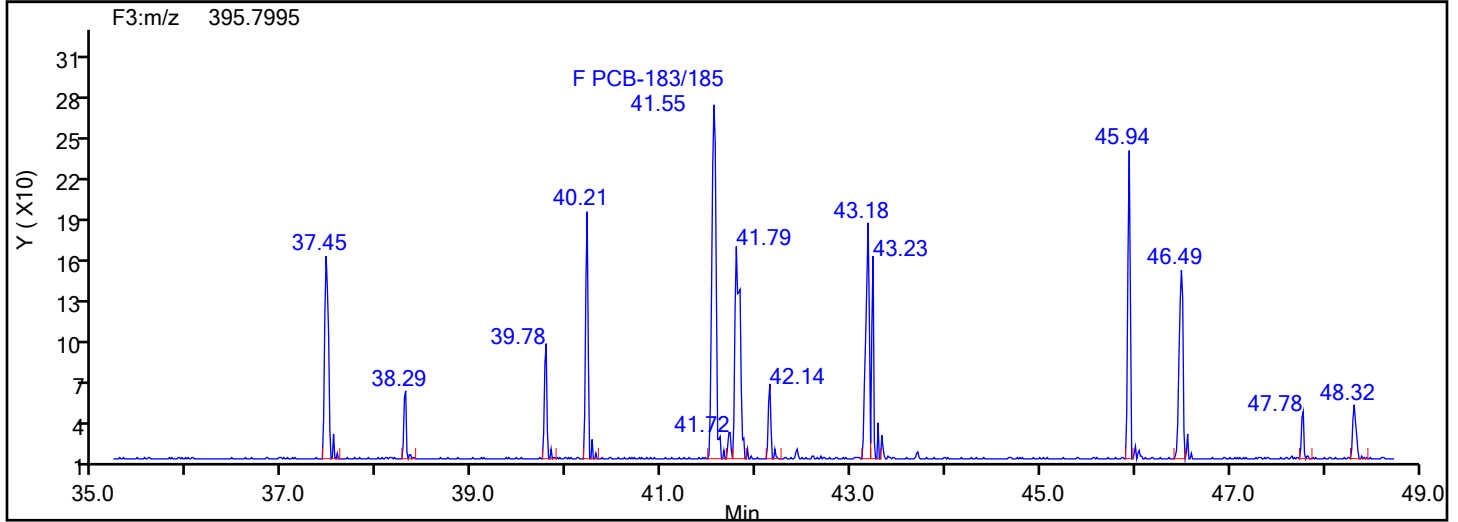
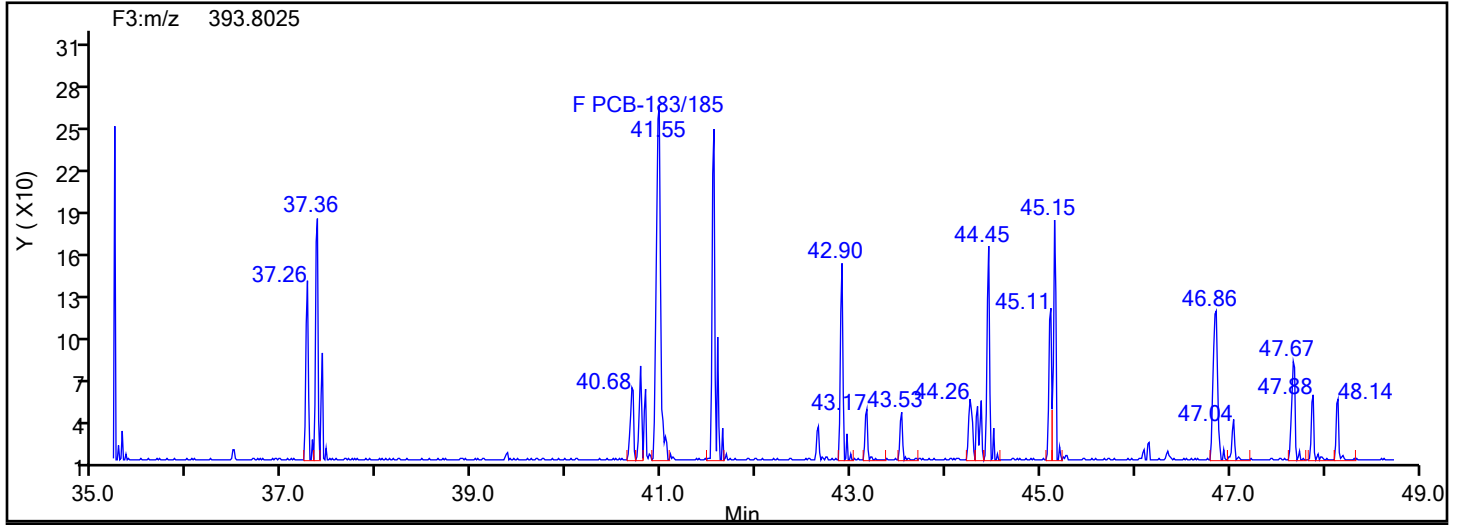


HpPCB F3 Standards

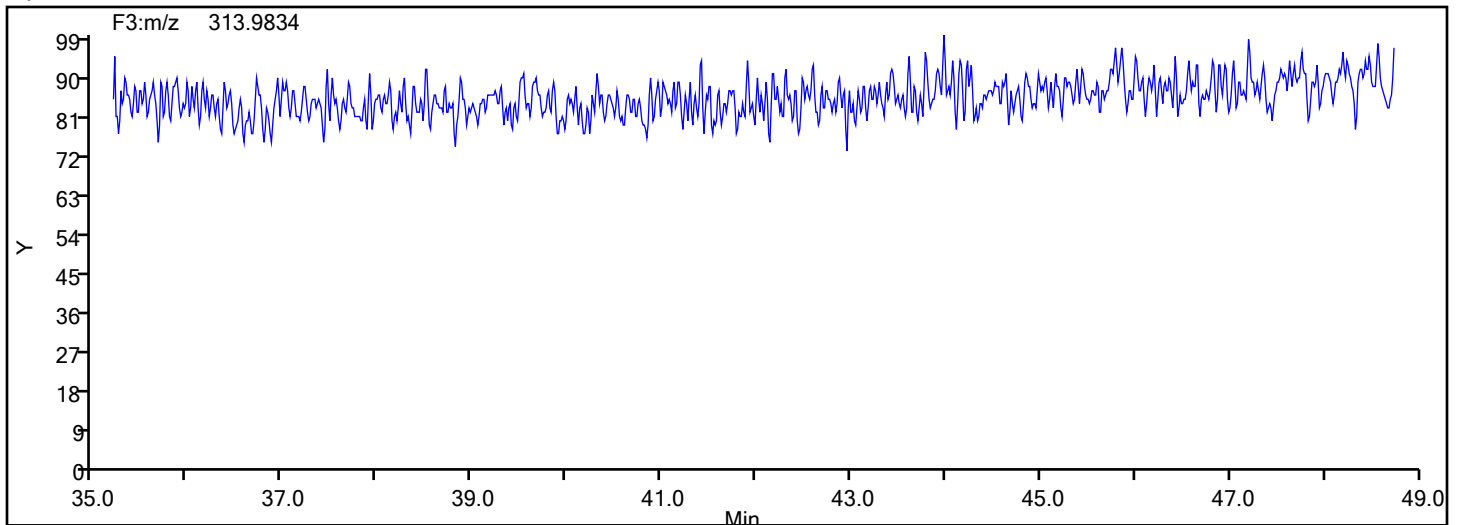


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

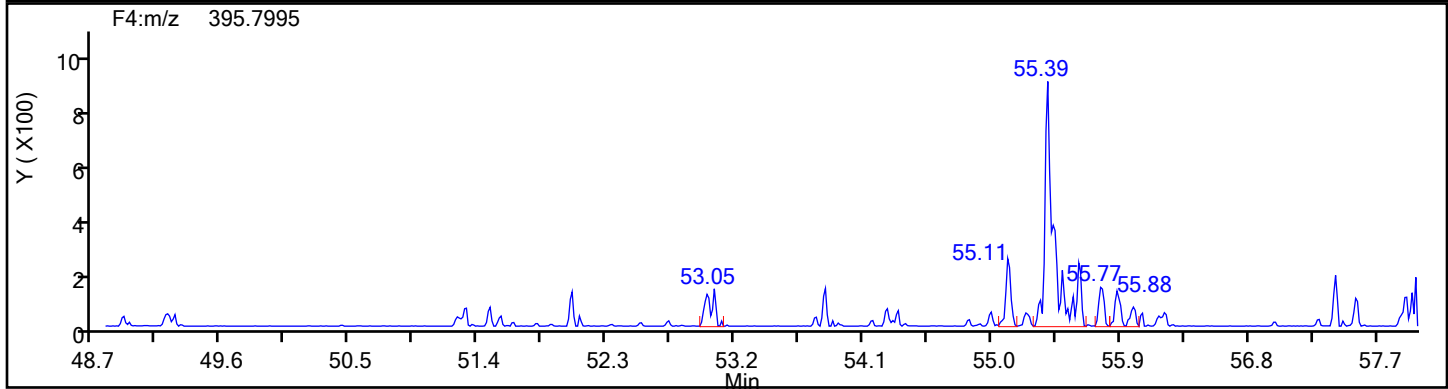
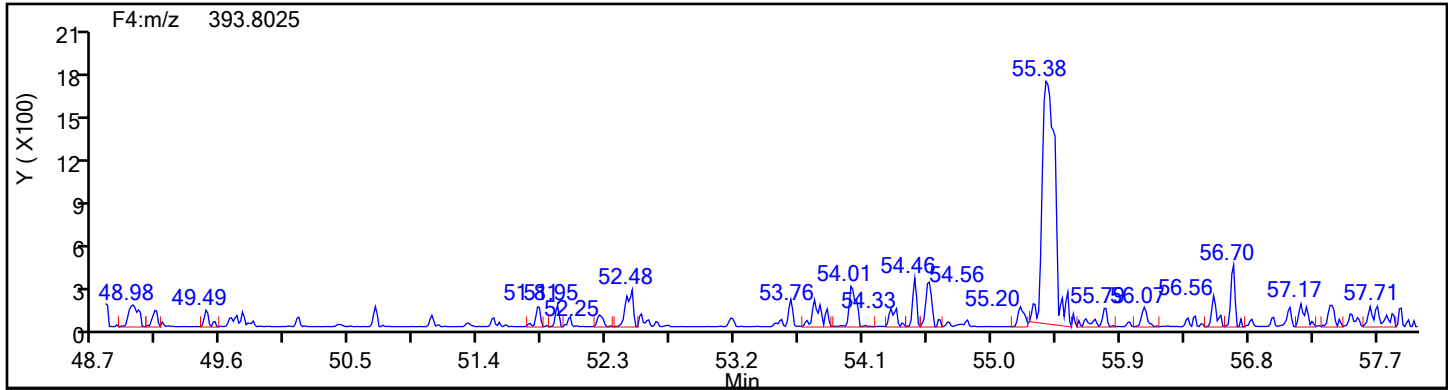


HpPCB F3 Lock Mass

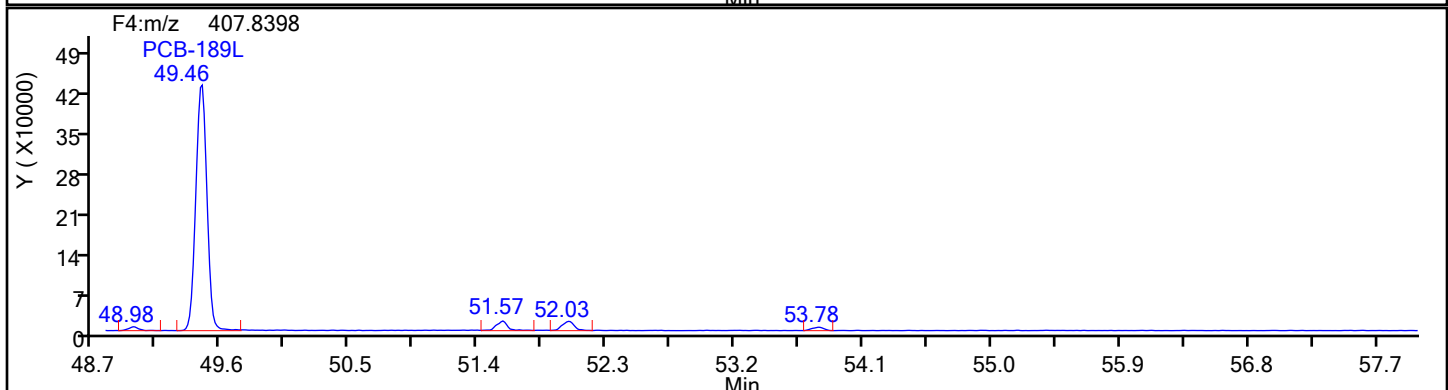
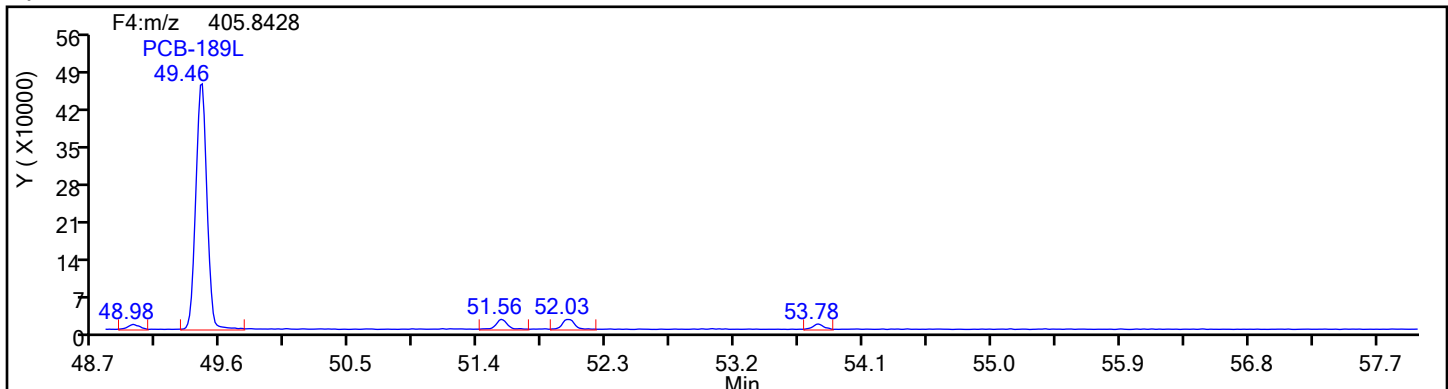


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

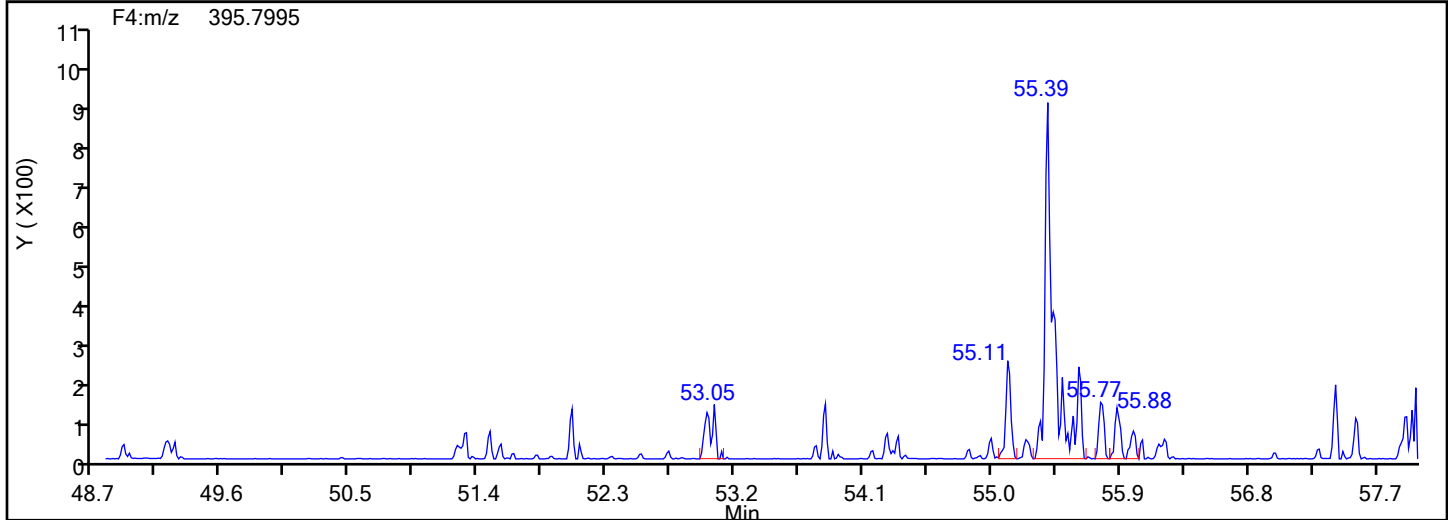
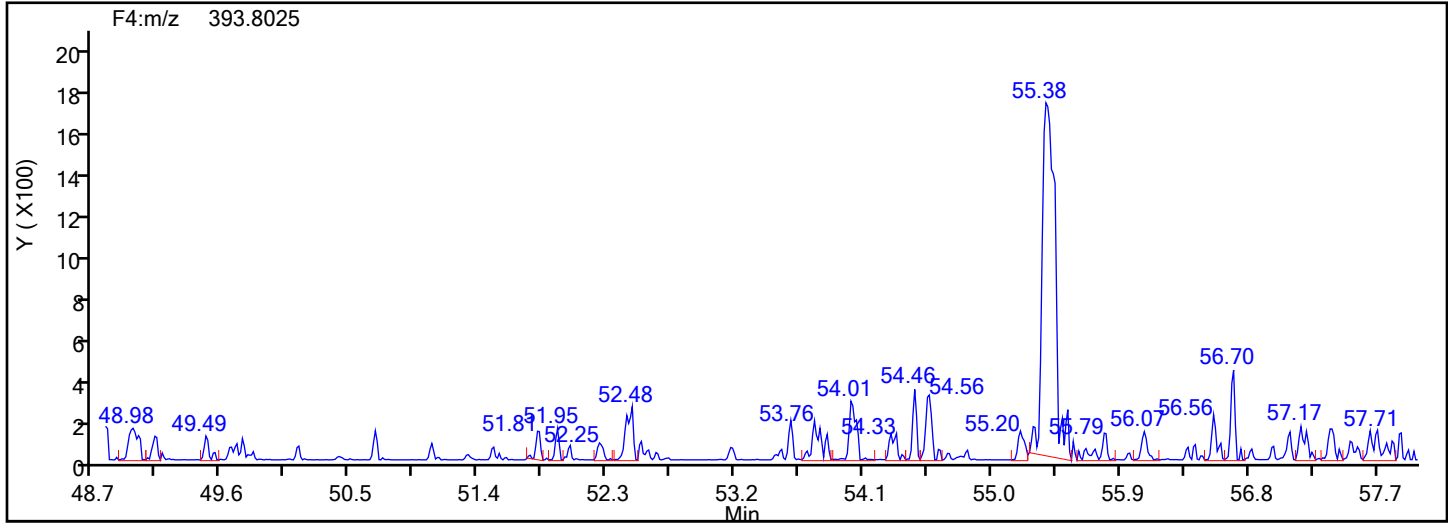


HpPCB F4 Standards

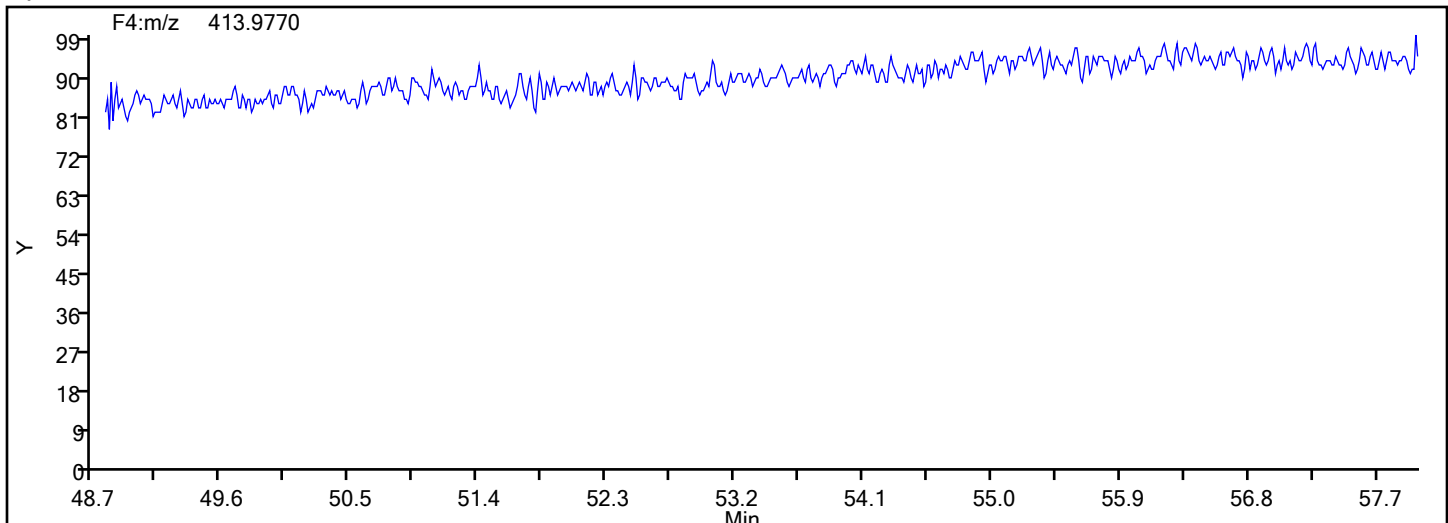


Eurofins Knoxville

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Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

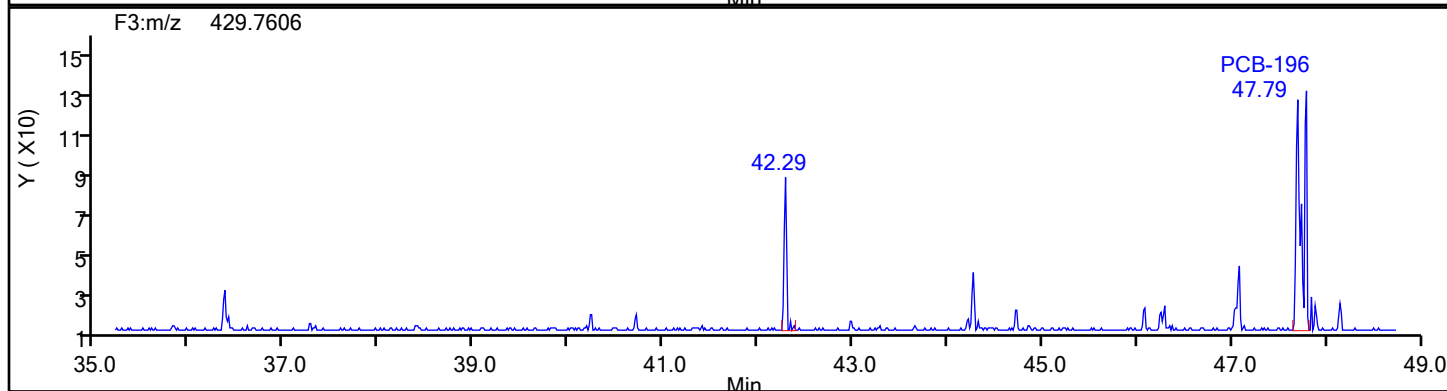
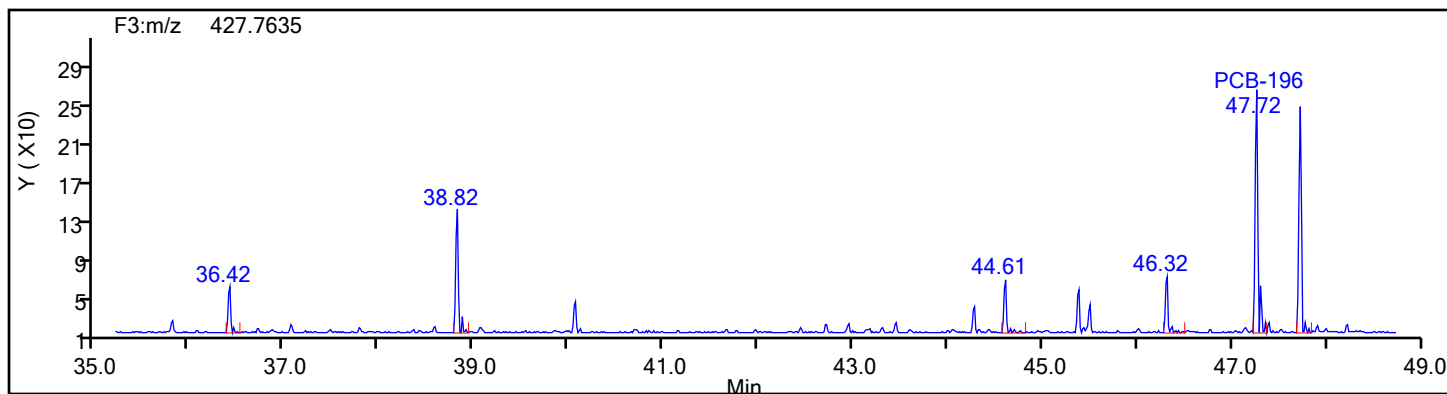


HpPCB F4 Lock Mass

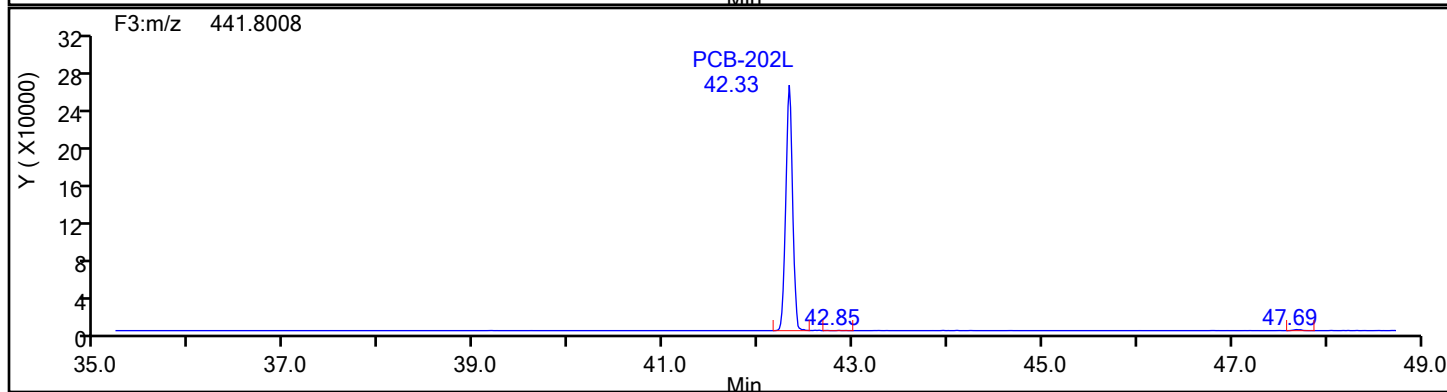
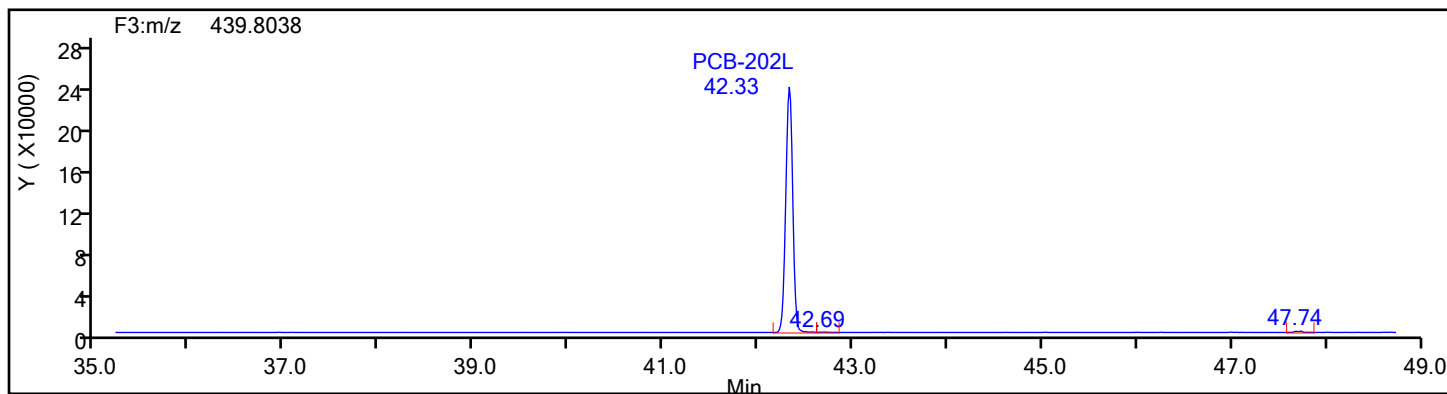


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

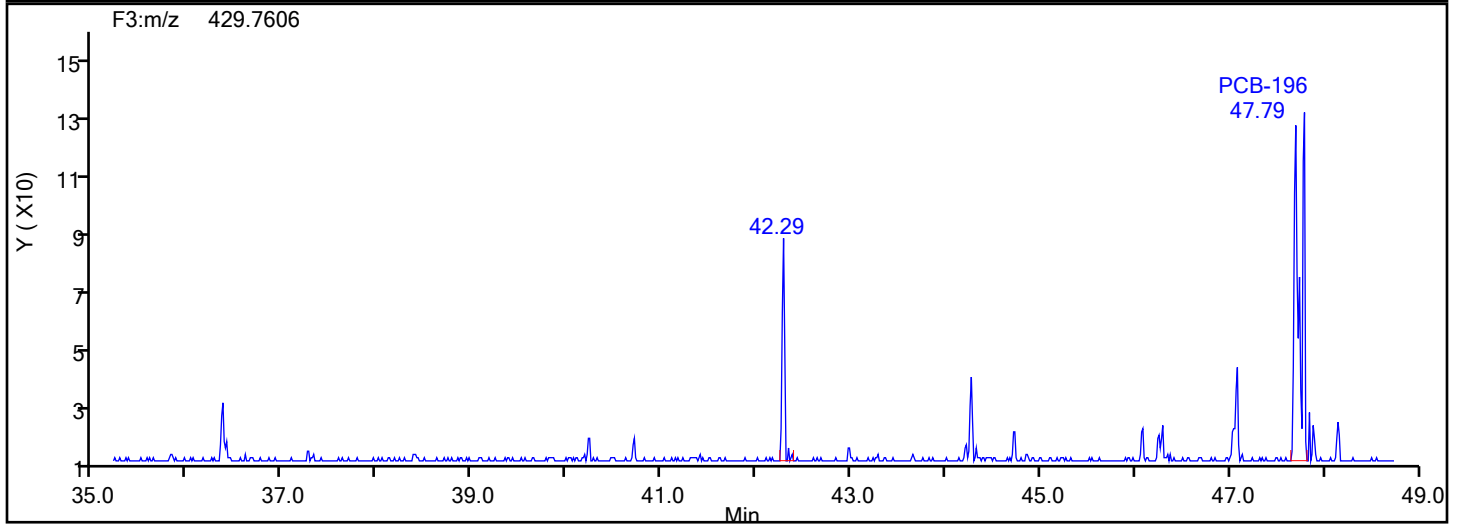
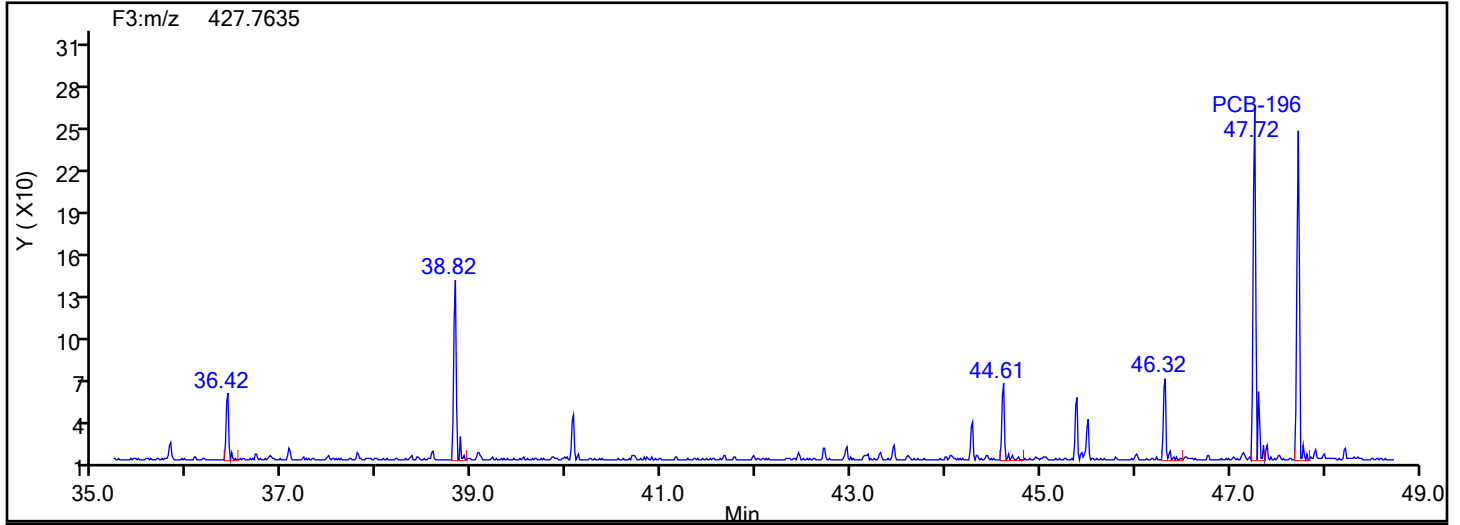


OcPCB F3 Standards

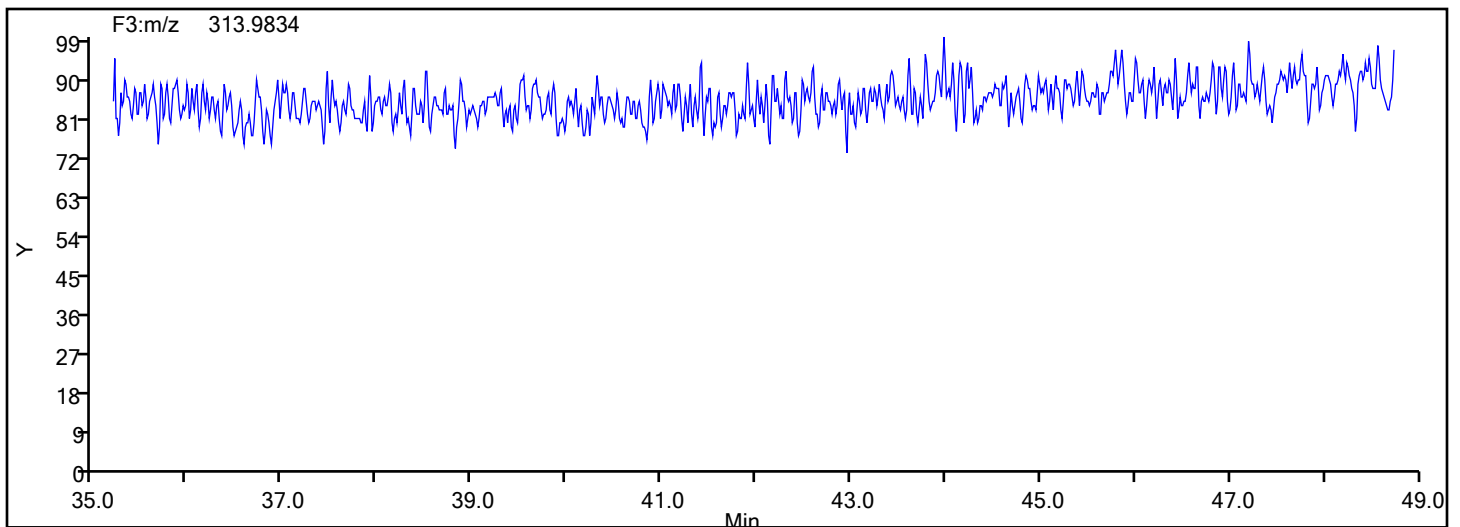


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

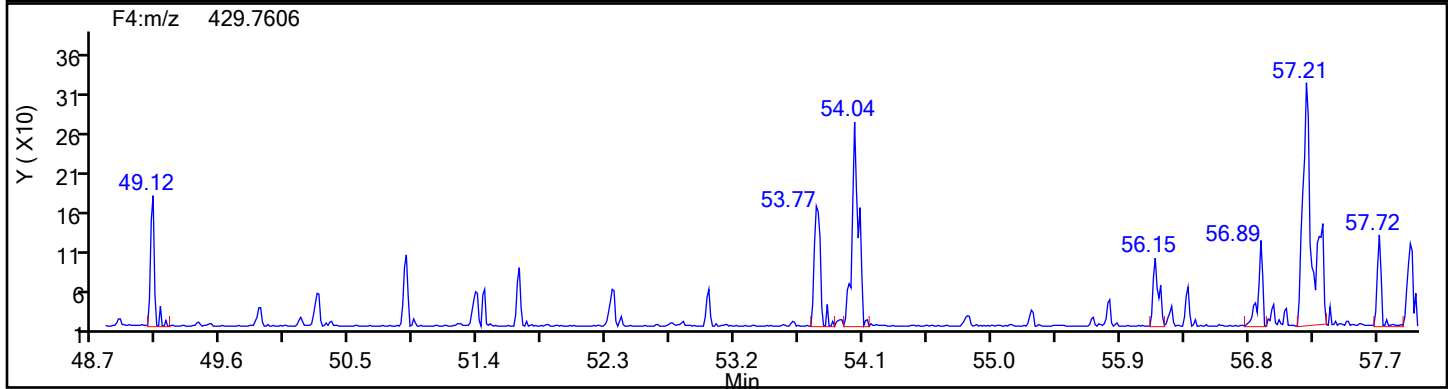
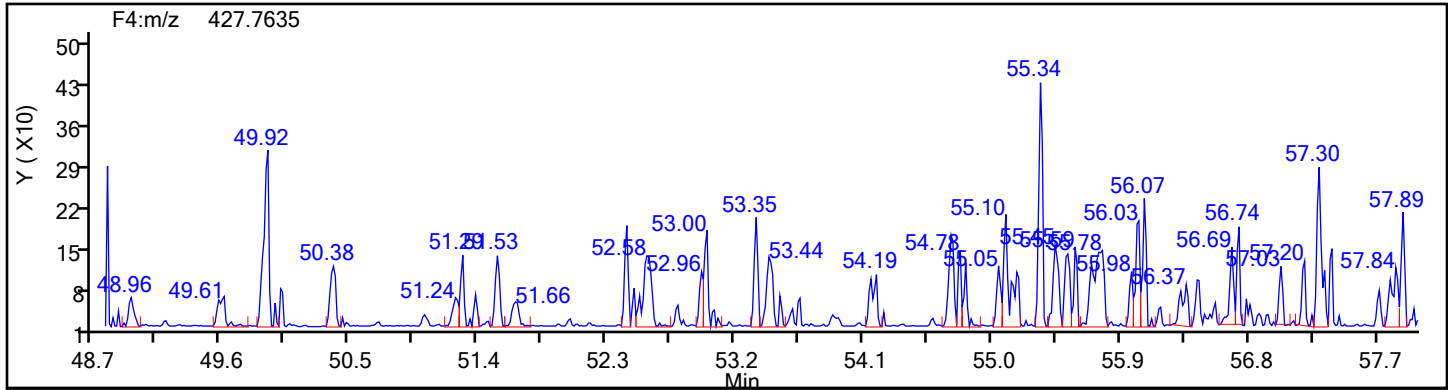


OcPCB F3 Lock Mass

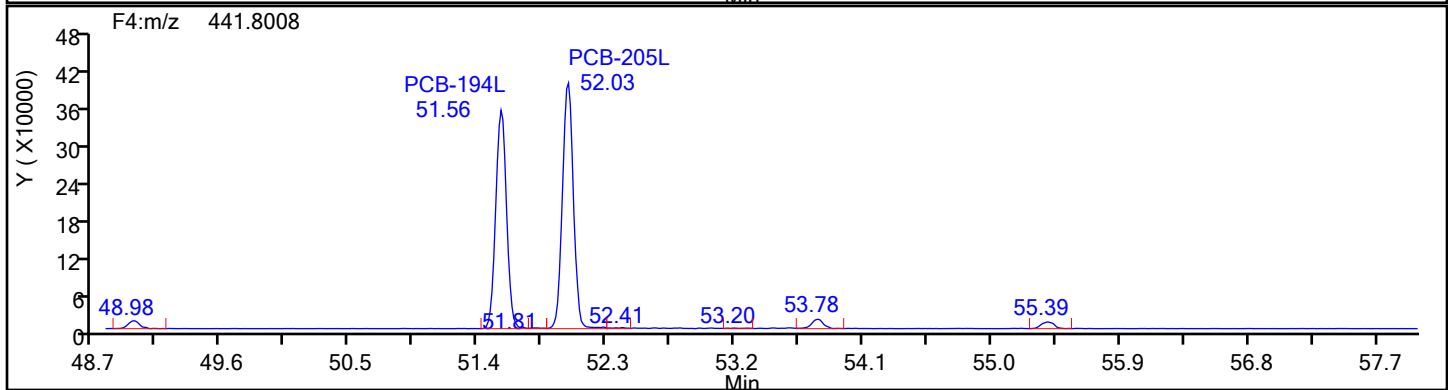
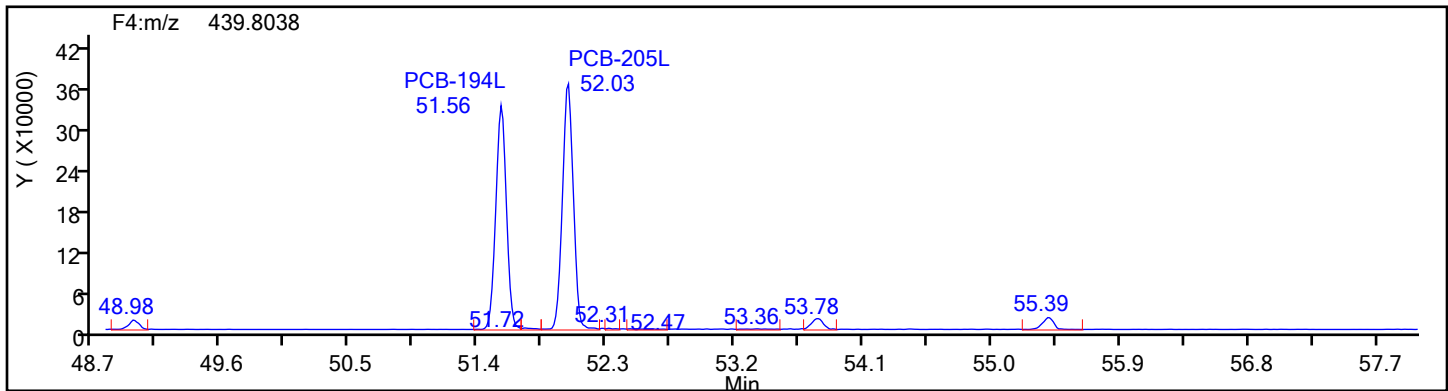


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

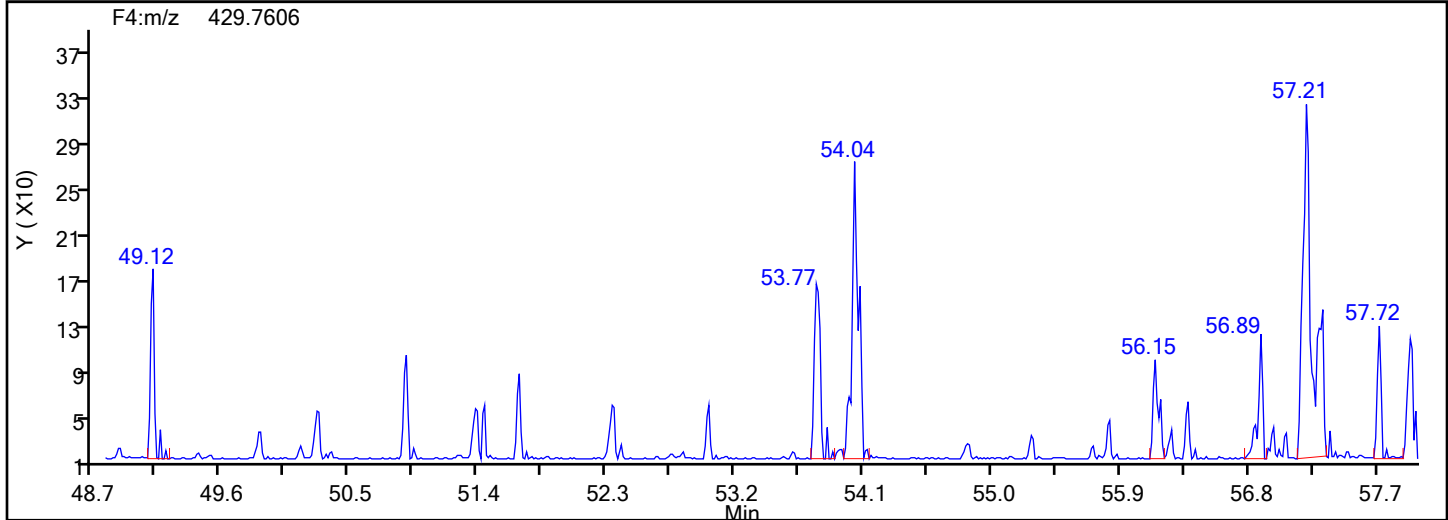
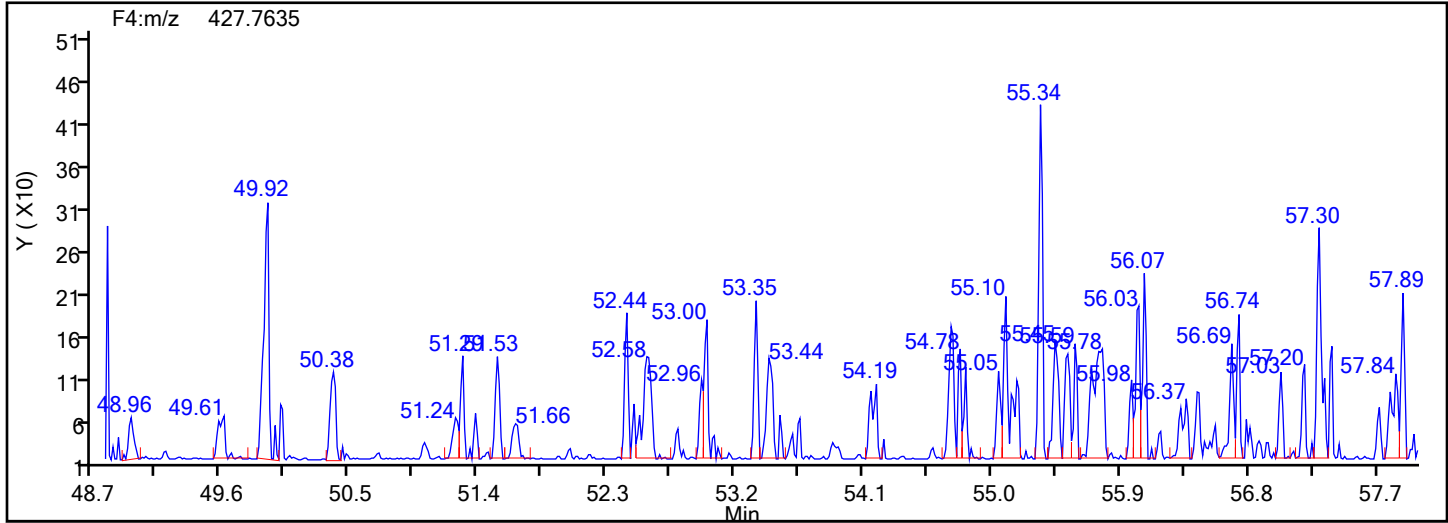


OcPCB F4 Standards

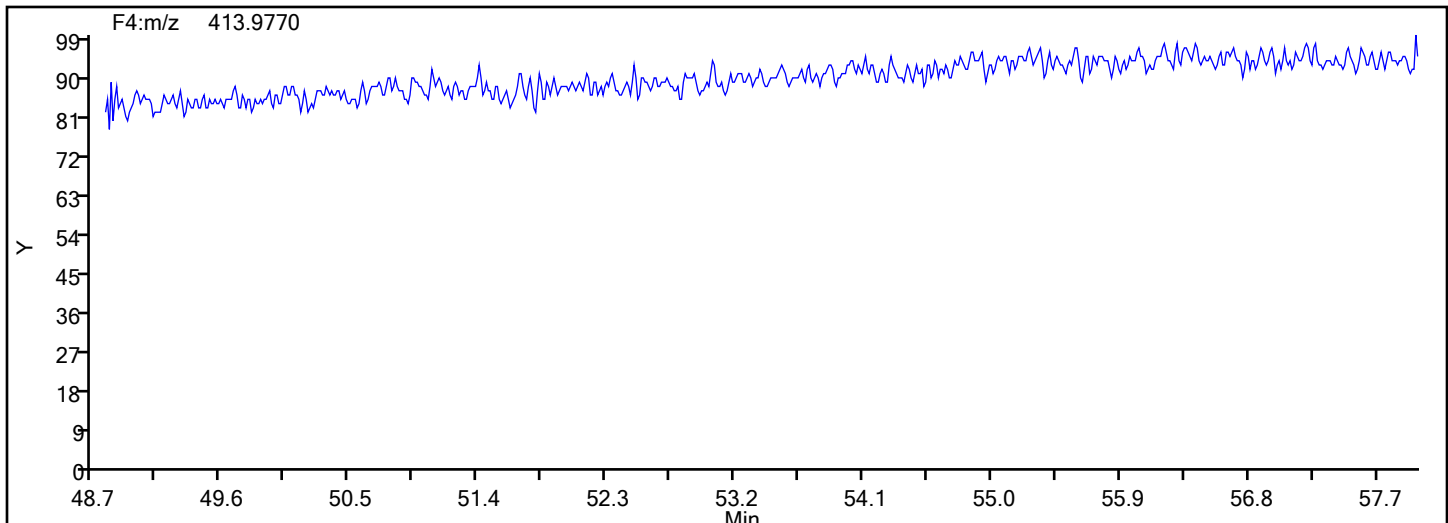


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

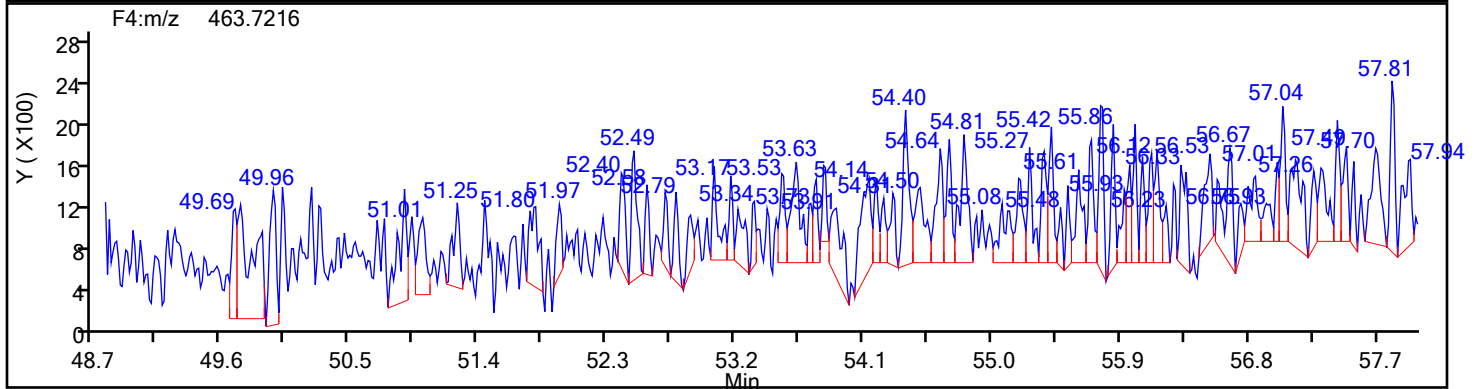
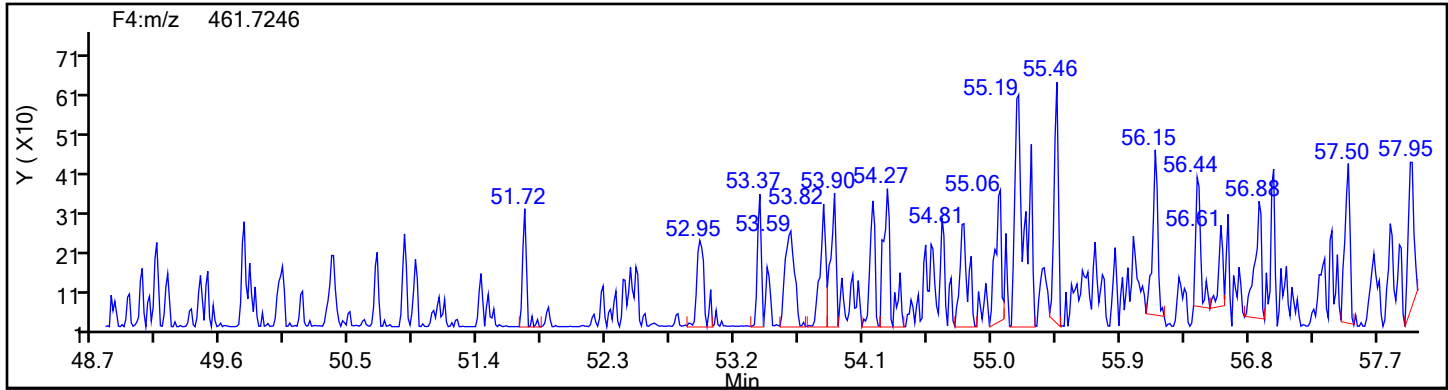


OcPCB F4 Lock Mass

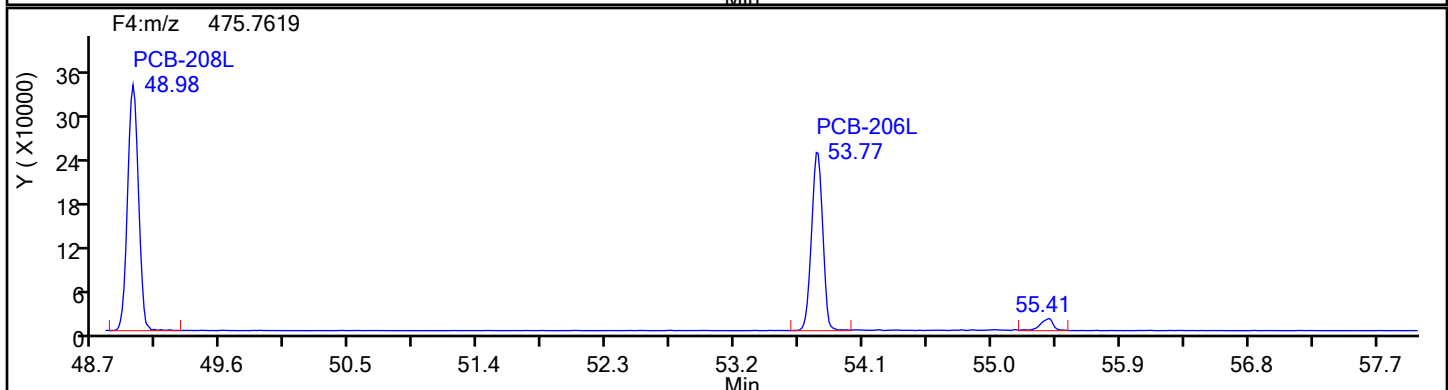
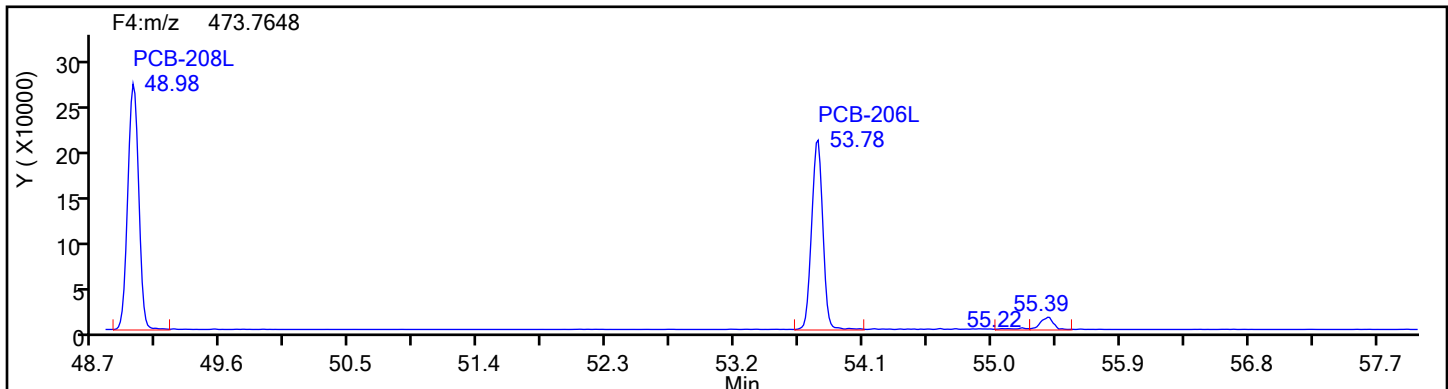


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

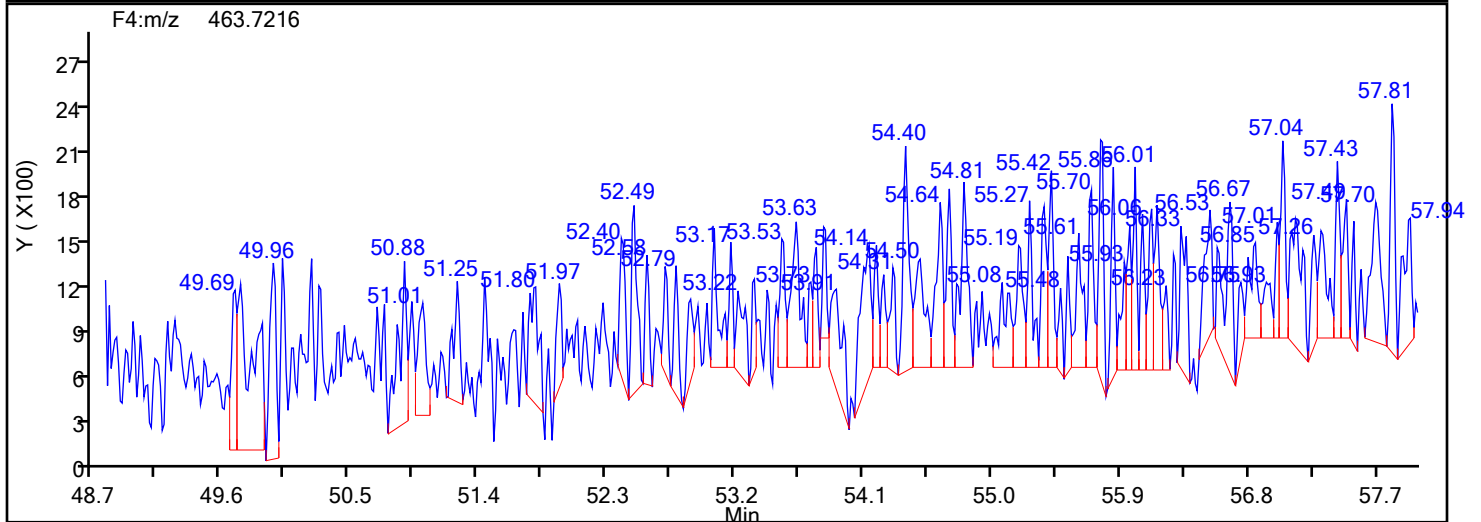
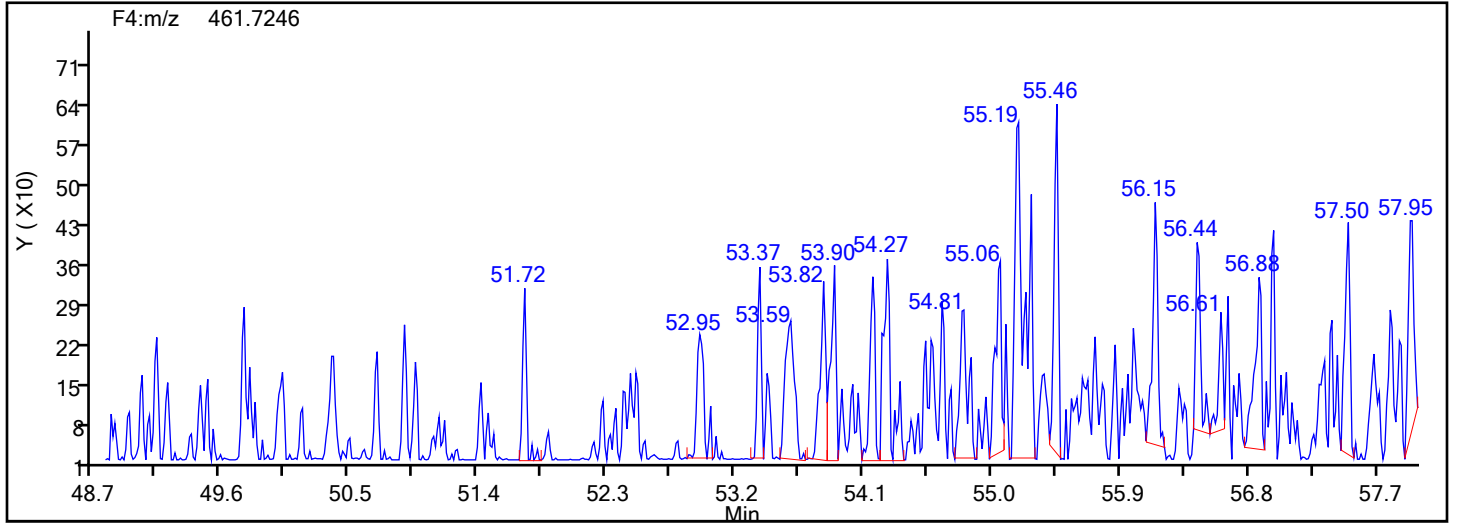


NoPCB F4 Standards

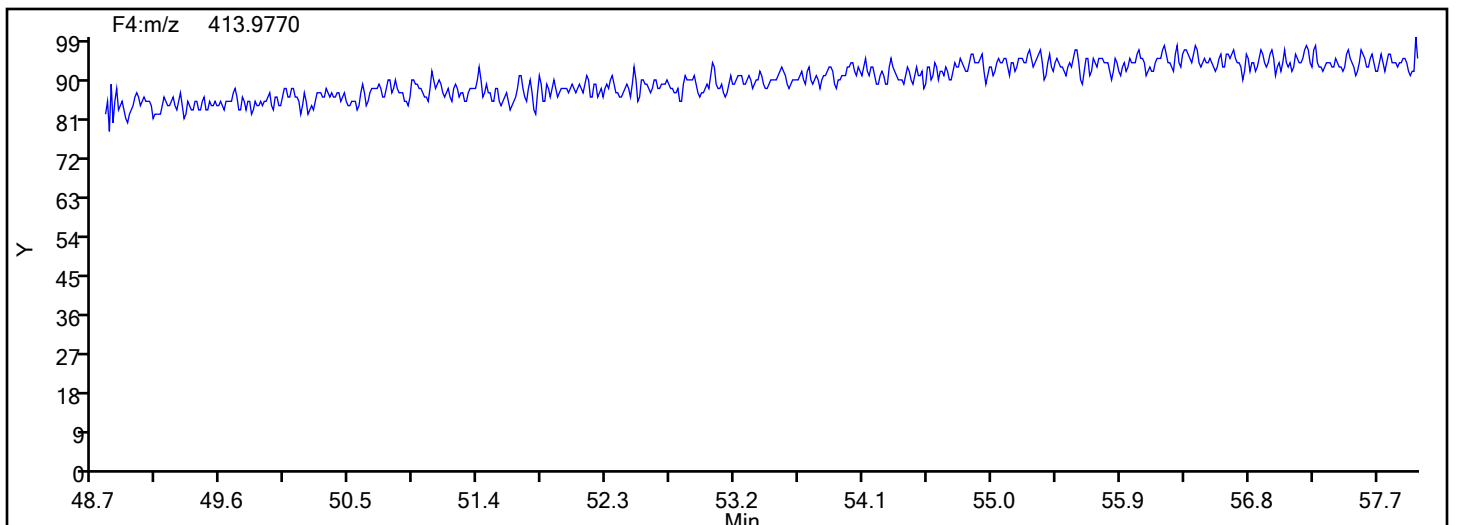


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d

Injection Date: 16-Jul-2024 10:05:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED

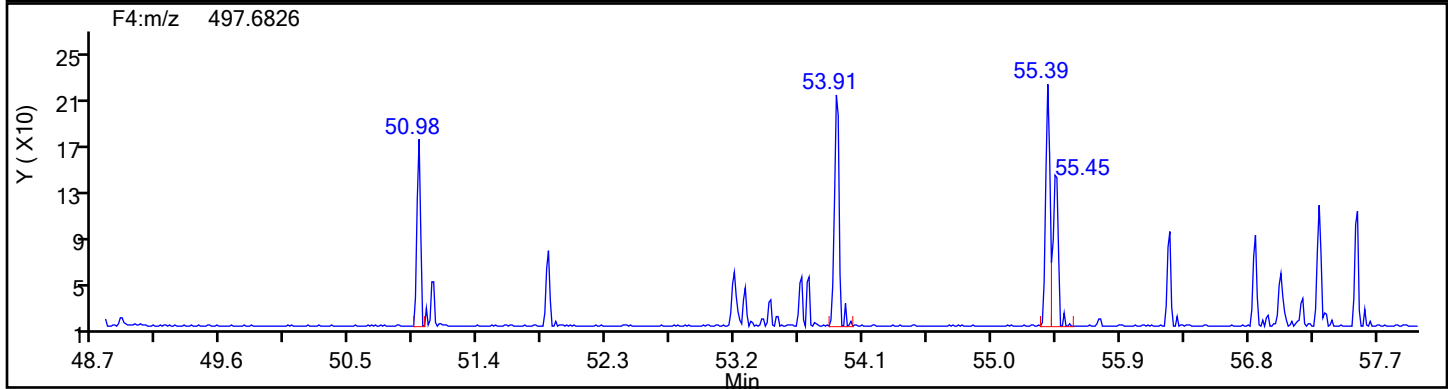
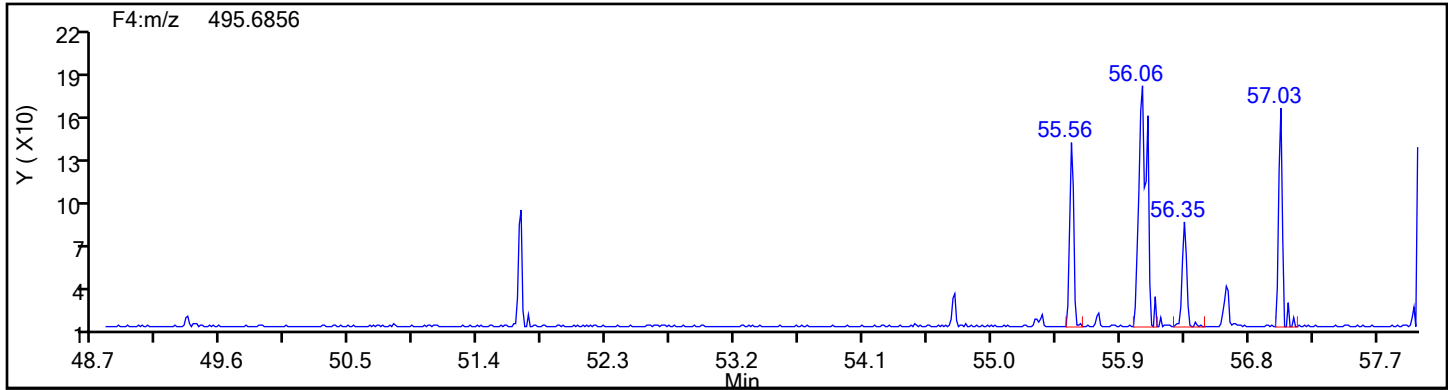
Worklist#: 88780

Sample Line#: 13

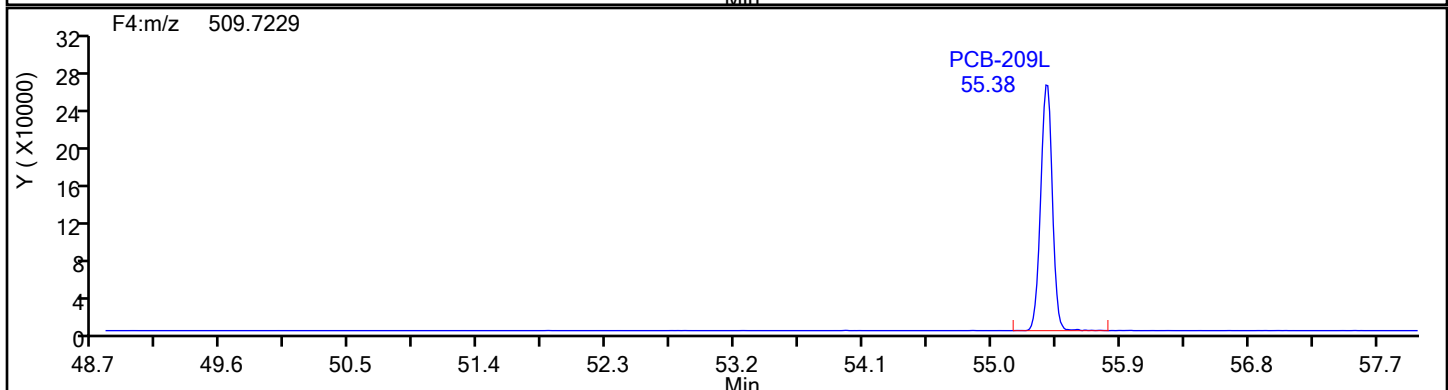
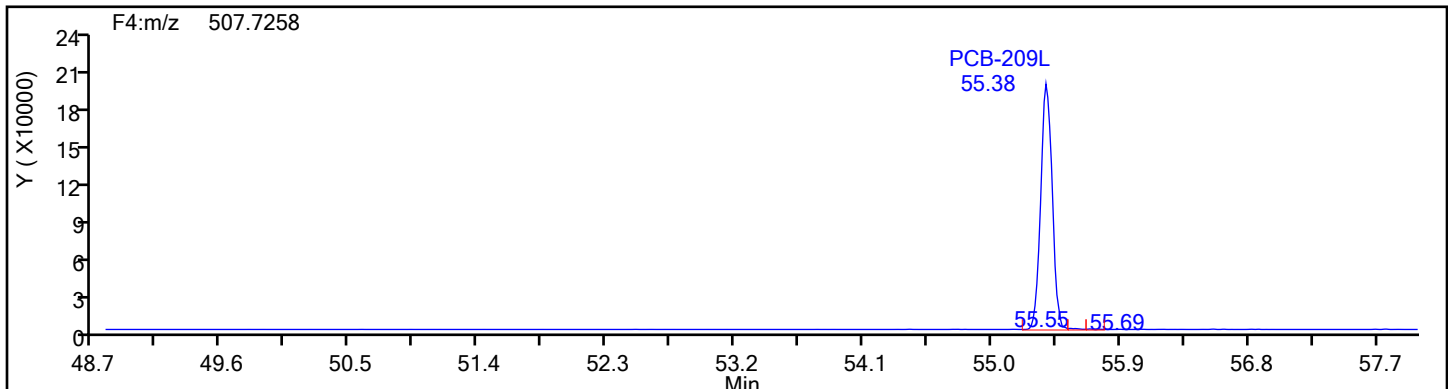
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4

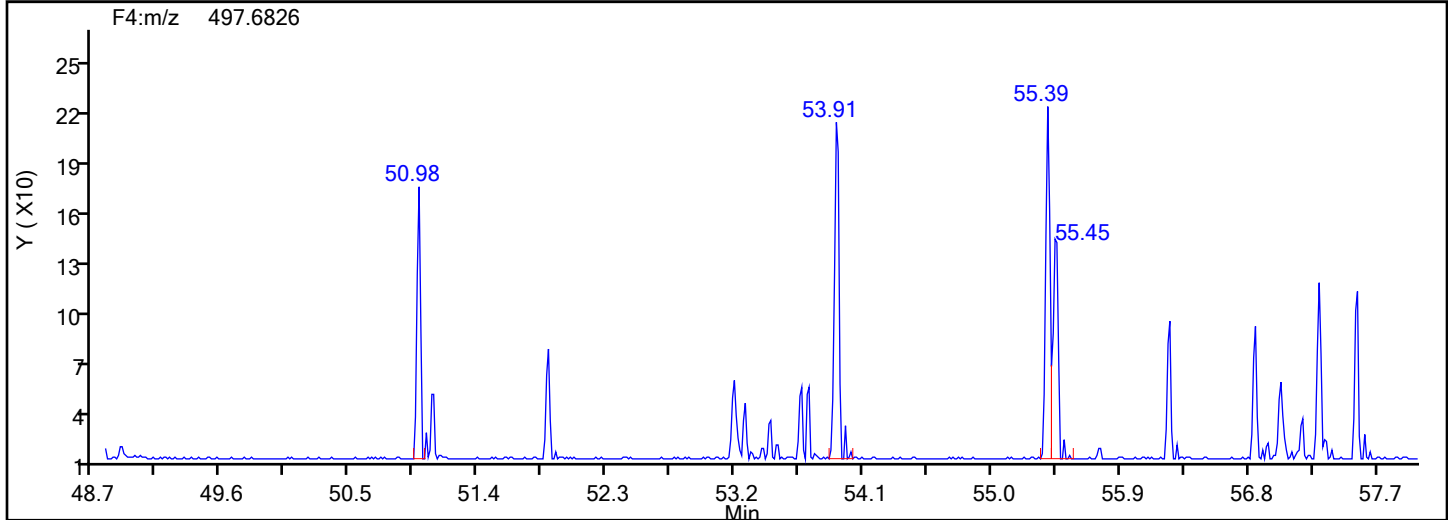
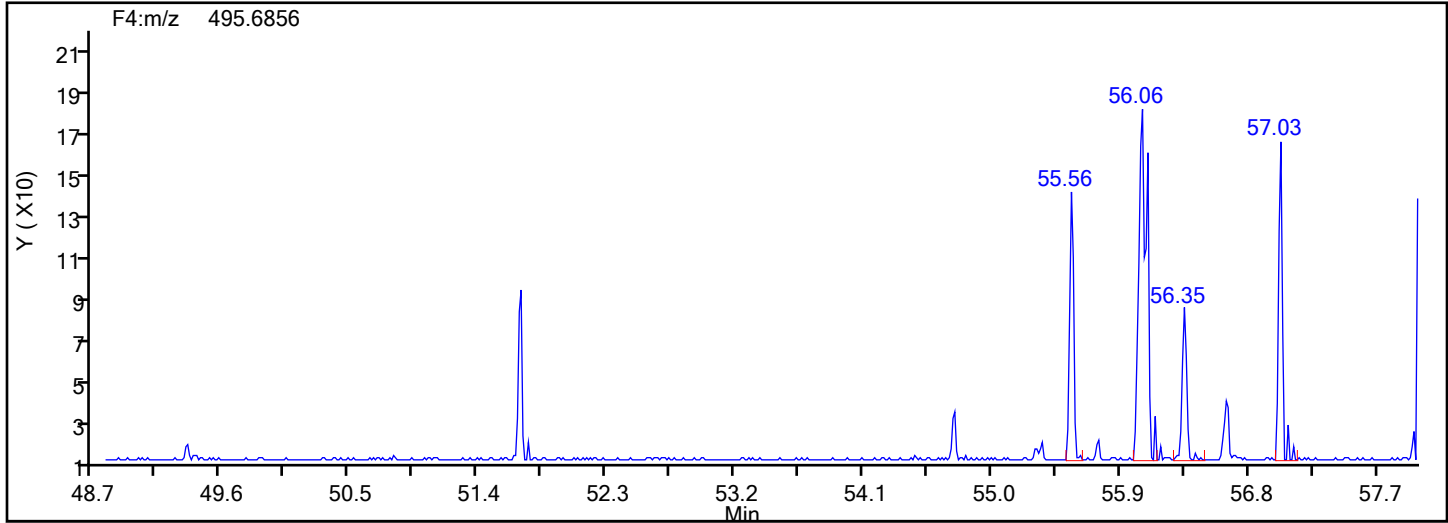


DePCB F4 Standards

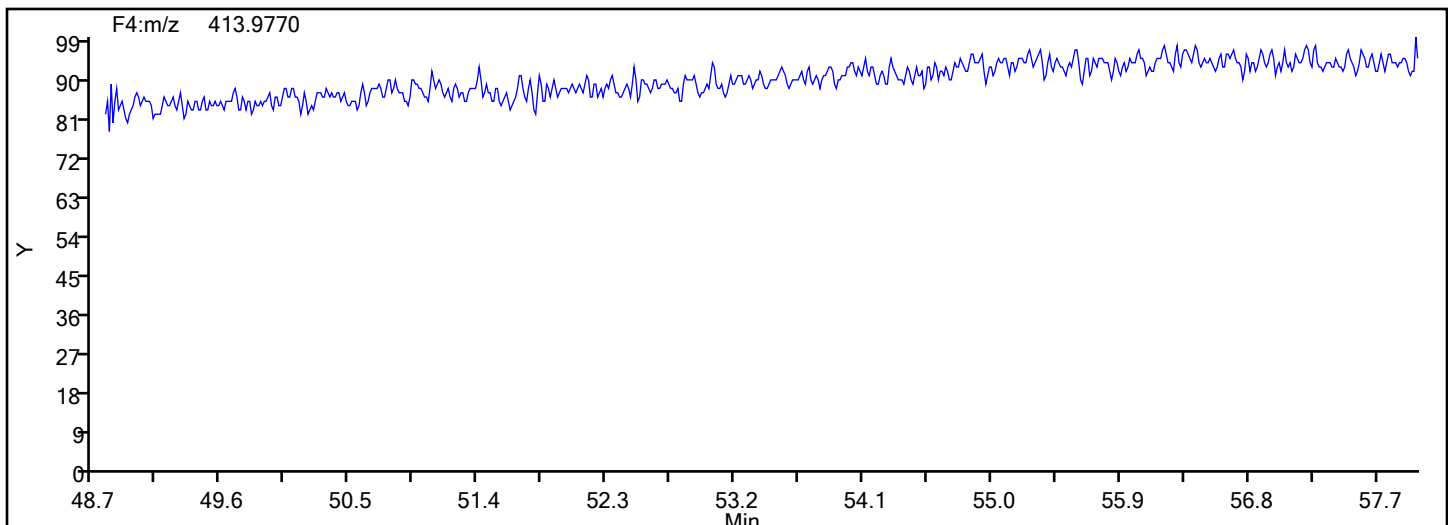


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Injection Date: 16-Jul-2024 10:05:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Worklist#: 88780 Sample Line#: 13
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-a-8-d.d
Lims ID: 140-37232-A-8-D
Client ID: M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED
Sample Type: Client
Inject. Date: 16-Jul-2024 10:05:00 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-013
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 17-Jul-2024 01:59:02 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 17-Jul-2024 01:59:02

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.0	49.9	99.89
PCB-28L	100.0	74.8	74.83
PCB-79L	50.0	59.4	118.76
PCB-95L	50.0	57.1	114.12
PCB-111L	100.0	81.4	81.40
PCB-153L	50.0	51.8	103.61
PCB-178L	100.0	83.5	83.54

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2232,A-2233 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-37232-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-b-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 02:56</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	ND		0.600	0.132	0.0102
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00417
7012-37-5	PCB-28	0.0266	J B C20	0.600	0.252	0.00927
41464-39-5	PCB-44	ND	C	0.900	0.390	0.0187
35693-99-3	PCB-52	ND		0.300	0.132	0.0198
32598-10-0	PCB-66	ND		0.300	0.120	0.0145
32598-13-3	PCB-77	ND		0.300	0.126	0.0165
70362-50-4	PCB-81	ND		0.300	0.0960	0.0172
37680-73-2	PCB-101	ND	C90	0.900	0.390	0.00623
32598-14-4	PCB-105	ND		0.300	0.102	0.00782
74472-37-0	PCB-114	ND		0.300	0.165	0.00861
31508-00-6	PCB-118	ND		0.300	0.183	0.00759
65510-44-3	PCB-123	ND		0.300	0.171	0.00875
57465-28-8	PCB-126	ND		0.300	0.123	0.00864
38380-07-3	PCB-128	ND	C	0.600	0.204	0.000308
35065-28-2	PCB-138	0.00876	J C129 q	1.20	0.510	0.000320
35065-27-1	PCB-153	0.00527	J C B q	0.600	0.249	0.000276
38380-08-4	PCB-156	ND	C	0.600	0.255	0.000340
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.000340
52663-72-6	PCB-167	ND		0.300	0.180	0.000223
32774-16-6	PCB-169	ND		0.300	0.123	0.000219
35065-30-6	PCB-170	ND		0.300	0.132	0.000546
35065-29-3	PCB-180	ND	C	0.600	0.204	0.000466
52663-68-0	PCB-187	ND		0.300	0.126	0.000494
39635-31-9	PCB-189	ND		0.300	0.147	0.00653
52663-78-2	PCB-195	ND		0.300	0.159	0.00347
40186-72-9	PCB-206	ND		0.300	0.171	0.0511
2051-24-3	PCB-209	ND		0.300	0.138	0.00230

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2232,A-2233 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-37232-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-37232-b-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>06/11/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 02:56</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88780</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	77		20-145
208263-77-8	PCB-3L	73		20-145
234432-86-1	PCB-4L	74		20-145
208263-67-6	PCB-15L	74		20-145
234432-87-2	PCB-19L	71		20-145
208263-79-0	PCB-37L	75		20-145
234432-88-3	PCB-54L	80		20-145
105600-23-5	PCB-77L	82		20-145
208461-24-9	PCB-81L	79		20-145
234432-89-4	PCB-104L	76		20-145
208263-62-1	PCB-105L	84		20-145
208263-63-2	PCB-114L	80		20-145
104130-40-7	PCB-118L	81		20-145
208263-64-3	PCB-123L	80		20-145
208263-65-4	PCB-126L	87		20-145
234432-90-7	PCB-155L	76		20-145
208263-68-7	PCB-156L	89	C	20-145
235416-30-5	PCB-157L	89	C156	20-145
208263-69-8	PCB-167L	86		20-145
208263-70-1	PCB-169L	91		20-145
160901-80-4	PCB-170L	89		20-145
234432-91-8	PCB-188L	78		20-145
208263-73-4	PCB-189L	87		20-145
105600-26-8	PCB-202L	80		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	96		20-145
234432-92-9	PCB-208L	85		20-145
105600-27-9	PCB-209L	106		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Client Sample ID: A-2232,A-2233 M23 MEDIA Lab Sample ID: 140-37232-14
CHECK XAD, FILTER
Matrix: Air Lab File ID: 140-37232-b-14-d.d
Analysis Method: 23 Date Collected: 06/11/2024 00:00
Extract. Method: Combined Prep Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1 (Sample) Date Analyzed: 07/16/2024 02:56
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 88780 Units: ng/Sample
Preparation Batch No.: 88193 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		20-130
235416-29-2	PCB-111L	74		20-130
232919-67-4	PCB-178L	75		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-b-14-d.d
Lims ID: 140-37232-B-14-D
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 16-Jul-2024 02:56:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 19:23:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 19:23:55

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.0414	0.0238	0.0154	0.0154		RQ
D PCB-1L	11:37	5819424	3.18	1.6108	77.0	77.0	0.1994	0.1994	76.98	
D PCB-3L	13:46	5463699	3.23	1.5891	73.3	73.3	0.2021	0.2021	73.26	
PCB-1	11:39						0.0131	0.0131		
PCB-2	13:37	1585	3.13	1.1805	0.0414	0.0238	0.0155	0.0155		RQM
PCB-3	13:48						0.0177	0.0177		
S Total Dichlorobiphenyls							0.0435	0.0435		
D PCB-4L	14:01	2262733	1.59	0.6475	74.5	74.5	0.1620	0.1620	74.45	
* PCB-9L	15:58	4693233	1.61		100.0	100.0				
\$ PCB-8L	16:49						0.1492	0.1492		
D PCB-15L	19:53	3744851	1.68	1.0789	74.0	74.0	0.0973	0.0973	73.96	
PCB-4	14:03						0.0435	0.0435		
PCB-10	14:13						0.0411	0.0411		
PCB-9	15:59						0.0380	0.0380		
PCB-7	16:09						0.0382	0.0382		
PCB-6	16:24						0.0350	0.0350		
PCB-5	16:43						0.0403	0.0403		
PCB-8	16:50						0.0340	0.0340		
PCB-14	18:26						0.0385	0.0385		
PCB-11	19:17						0.0417	0.0417		
PCB-12	19:35						0.0404	0.0404		
PCB-13 (C12)	19:35						0.0404	0.0404		
PCB-15	19:54						0.0406	0.0406		
S Total Trichlorobiphenyls					0.1922	0.1705	0.0265	0.0265		RQ
D PCB-19L	17:07	1412143	1.07	0.6285	71.2	71.2	0.5233	0.5233	71.24	
* PCB-32L	20:20	3153800	1.07		100.0	100.0				
* PCB-31L	22:35	6847368	1.05		100.0	100.0				
\$ PCB-28L	22:52	5195928	1.05	1.0494	72.3	72.3	0.1489	0.1489	72.31	
D PCB-37L	26:53	4470010	1.04	0.8749	74.6	74.6	0.1786	0.1786	74.61	
PCB-19	17:08						0.0192	0.0192		
PCB-18	18:55						0.0139	0.0139		
PCB-30 (C18)	18:55						0.0139	0.0139		
PCB-17	19:24						0.0197	0.0197		
PCB-27	19:37						0.0134	0.0134		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:44						0.0146	0.0146		
PCB-16	19:52						0.0217	0.0217		
PCB-32	20:22	787	1.04	1.8324	0.0464	0.0304	0.0134	0.0134		RQM
PCB-34	21:36						0.0321	0.0321		
PCB-23	21:45						0.0335	0.0335		
PCB-26	22:04						0.0322	0.0322		
PCB-29 (C26)	22:04						0.0322	0.0322		
PCB-25	22:18						0.0284	0.0284		
PCB-31	22:37						0.0314	0.0314		
PCB-20	22:54	4639	0.92	1.1718	0.0886	0.0886	0.0309	0.0309		
PCB-28 (C20)	22:54	4639	0.92	1.1718	0.0886	0.0886	0.0309	0.0309		
PCB-21	23:08	2475	1.04	1.0746	0.0573	0.0515	0.0337	0.0337		RQ
PCB-33 (C21)	23:08	2475	1.04	1.0746	0.0573	0.0515	0.0337	0.0337		RQ
PCB-22	23:33						0.0303	0.0303		
PCB-36	25:05						0.0327	0.0327		
PCB-39	25:27						0.0313	0.0313		
PCB-38	26:01						0.0334	0.0334		
PCB-35	26:30						0.0320	0.0320		
PCB-37	26:54						0.0317	0.0317		
S Total Tetrachlorobiphenyls					0.0712	0.0352	0.0552	0.0552		RQ
D PCB-54L	20:10	1406232	0.84	0.5562	80.2	80.2	0.0677	0.0677	80.16	
* PCB-52L	24:42	3562438	0.81		100.0	100.0				
\$ PCB-79L	32:36						0.2277	0.2277		
D PCB-81L	33:36	3504292	0.78	1.2470	78.9	78.9	0.1491	0.1491	78.89	
D PCB-77L	34:11	3866515	0.84	1.3212	82.2	82.2	0.1407	0.1407	82.15	
PCB-54	20:12						0.009514	0.009514		
PCB-50	22:21						0.0707	0.0707		
PCB-53 (C50)	22:21						0.0707	0.0707		
PCB-45	23:05						0.0734	0.0734		
PCB-51 (C45)	23:05						0.0734	0.0734		
PCB-46	23:20						0.0854	0.0854		
PCB-52	24:44						0.0660	0.0660		
PCB-43	24:52						0.0587	0.0587		
PCB-73 (C43)	24:52						0.0587	0.0587		
PCB-49	25:09						0.0568	0.0568		
PCB-69 (C49)	25:09						0.0568	0.0568		
PCB-48	25:29						0.0722	0.0722		
PCB-44	25:44						0.0623	0.0623		
PCB-47 (C44)	25:44						0.0623	0.0623		
PCB-65 (C44)	25:44						0.0623	0.0623		
PCB-59	26:03						0.0512	0.0512		
PCB-62 (C59)	26:03						0.0512	0.0512		
PCB-75 (C59)	26:03						0.0512	0.0512		
PCB-42	26:15						0.0749	0.0749		
PCB-40	26:45						0.0684	0.0684		
PCB-41 (C40)	26:45						0.0684	0.0684		
PCB-71 (C40)	26:45						0.0684	0.0684		
PCB-64	26:57						0.0515	0.0515		
PCB-72	27:46						0.0554	0.0554		
PCB-68	28:04						0.0484	0.0484		
PCB-57	28:29						0.0561	0.0561		
PCB-58	28:44						0.0458	0.0458		
PCB-67	28:53						0.0426	0.0426		
PCB-63	29:09						0.0540	0.0540		
PCB-61	29:32	1638	0.77	1.2612	0.0712	0.0352	0.0481	0.0481		RQ
PCB-70 (C61)	29:32	1638	0.77	1.2612	0.0712	0.0352	0.0481	0.0481		RQ
PCB-74 (C61)	29:32	1638	0.77	1.2612	0.0712	0.0352	0.0481	0.0481		RQ
PCB-76 (C61)	29:32	1638	0.77	1.2612	0.0712	0.0352	0.0481	0.0481		RQ
PCB-66	29:49						0.0482	0.0482		
PCB-55	29:59						0.0458	0.0458		
PCB-56	30:30						0.0492	0.0492		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42						0.0540	0.0540		
PCB-80	31:06						0.0458	0.0458		
PCB-79	32:38						0.0422	0.0422		
PCB-78	33:11						0.0522	0.0522		
PCB-81	33:38						0.0573	0.0573		
PCB-77	34:12						0.0549	0.0549		
S Total Pentachlorobiphenyls					0.2156	0.0885	0.0232	0.0232		RQ
D PCB-104L	25:38	2329505	1.57	1.2161	76.0	76.0	0.0542	0.0542	76.04	
\$ PCB-95L	28:36						0.0907	0.0907		
* PCB-101L	31:31	2519203	1.65		100.0	100.0				
\$ PCB-111L	34:12	2553996	1.60	1.3699	74.0	74.0	0.0481	0.0481	74.01	
D PCB-123L	36:09	3420126	1.59	0.9731	79.9	79.9	0.992	0.992	79.94	
D PCB-118L	36:28	3597120	1.62	1.0102	81.0	81.0	0.9560	0.9560	81.00	
D PCB-114L	37:00	3510638	1.58	0.9949	80.3	80.3	0.9707	0.9707	80.27	
D PCB-105L	37:40	3532093	1.58	0.9514	84.4	84.4	1.015	1.015	84.44	
* PCB-127L	39:07	4396291	1.59		100.0	100.0				
D PCB-126L	40:45	3614980	1.61	0.9439	87.1	87.1	1.023	1.023	87.12	
PCB-104	25:40						0.0197	0.0197		
PCB-96	26:03						0.0181	0.0181		
PCB-103	27:57						0.0227	0.0227		
PCB-94	28:11						0.0259	0.0259		
PCB-95	28:38						0.0247	0.0247		
PCB-93	28:47						0.0235	0.0235		RQU
PCB-100 (C93)	28:47						0.0235	0.0235		RQU
PCB-98	28:59						0.0240	0.0240		
PCB-102 (C98)	28:59						0.0240	0.0240		
PCB-88	29:29						0.0247	0.0247		
PCB-91 (C88)	29:29						0.0247	0.0247		
PCB-84	29:44						0.0272	0.0272		
PCB-89	30:11						0.0254	0.0254		
PCB-121	30:34						0.0153	0.0153		
PCB-92	30:58						0.0232	0.0232		
PCB-90	31:31						0.0208	0.0208		
PCB-101 (C90)	31:31						0.0208	0.0208		
PCB-113 (C90)	31:31						0.0208	0.0208		
PCB-83	32:11						0.0236	0.0236		RQU
PCB-99 (C83)	32:11						0.0236	0.0236		RQU
PCB-112	32:11						0.0140	0.0140		RQU
PCB-86	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-87 (C86)	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-97 (C86)	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-109 (C86)	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-119 (C86)	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-125 (C86)	32:40	328	1.55	1.0473	0.0537	0.0134	0.0189	0.0189		RQ
PCB-85	33:19						0.0190	0.0190		
PCB-116 (C85)	33:19						0.0190	0.0190		
PCB-117 (C85)	33:19						0.0190	0.0190		
PCB-110	33:32	775	1.55	1.1919	0.0706	0.0279	0.0166	0.0166		RQM
PCB-115 (C110)	33:32	775	1.55	1.1919	0.0706	0.0279	0.0166	0.0166		RQM
PCB-82	33:49	912	1.55	0.8303	0.0913	0.0471	0.0239	0.0239		RQM
PCB-111	34:12						0.0163	0.0163		
PCB-120	34:40						0.0134	0.0134		
PCB-108	35:49						0.0273	0.0273		
PCB-124 (C108)	35:49						0.0273	0.0273		
PCB-107	36:04						0.0257	0.0257		
PCB-123	36:11						0.0292	0.0292		
PCB-106	36:18						0.0287	0.0287		
PCB-118	36:30						0.0253	0.0253		
PCB-122	36:52						0.0325	0.0325		
PCB-114	37:02						0.0287	0.0287		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41						0.0261	0.0261		
PCB-127	39:09						0.0273	0.0273		
PCB-126	40:47						0.0288	0.0288		
S Total Hexachlorobiphenyls					0.0930	0.0637	0.001661	0.001661		RQ
D PCB-155L	31:16	2073202	1.29	1.0851	75.8	75.8	0.0698	0.0698	75.84	
\$ PCB-153L	38:20	40026	1.24	0.9169	1.634	1.353	0.7948	0.7948		RQ
* PCB-138L	39:35	2954259	1.28		100.0	100.0				
D PCB-167L	42:35	3205298	1.32	1.2572	86.3	86.3	0.5012	0.5012	86.30	
D PCB-156L	43:44	6363100	1.28	1.2106	177.9	177.9	0.5205	0.5205	88.96	
D PCB-157L (C156L)	43:44	6363100	1.28	1.2106	177.9	177.9	0.5205	0.5205	88.96	
D PCB-169L	46:58	3333707	1.29	1.2439	90.7	90.7	0.5066	0.5066	90.72	
PCB-155	31:17						0.002952	0.002952		
PCB-152	31:31						0.002817	0.002817		
PCB-150	31:40						0.002751	0.002751		
PCB-136	32:03						0.002756	0.002756		
PCB-145	32:20						0.002878	0.002878		
PCB-148	33:50						0.003666	0.003666		
PCB-135	34:26						0.003842	0.003842		
PCB-151 (C135)	34:26						0.003842	0.003842		
PCB-154	34:41						0.003429	0.003429		
PCB-144	35:00						0.003550	0.003550		
PCB-147	35:25	490	1.24	0.8950	0.0189	0.0170	0.001126	0.001126		RQM
PCB-149 (C147)	35:25	490	1.24	0.8950	0.0189	0.0170	0.001126	0.001126		RQM
PCB-134	35:43						0.001265	0.001265		RQU
PCB-143 (C134)	35:43						0.001265	0.001265		RQU
PCB-139	35:57						0.001150	0.001150		
PCB-140 (C139)	35:57						0.001150	0.001150		
PCB-131	36:10						0.001343	0.001343		
PCB-142	36:19						0.001343	0.001343		
PCB-132	36:38						0.001346	0.001346		
PCB-133	37:07						0.001245	0.001245		
PCB-165	37:30						0.000984	0.000984		
PCB-146	37:45						0.001046	0.001046		
PCB-161	37:53						0.000893	0.000893		
PCB-153	38:18	620	1.24	1.0938	0.0396	0.0176	0.000922	0.000922		RQM
PCB-168 (C153)	38:18	620	1.24	1.0938	0.0396	0.0176	0.000922	0.000922		RQM
PCB-141	38:34						0.001151	0.001151		
PCB-130	38:59						0.001430	0.001430		
PCB-137	39:11						0.001298	0.001298		
PCB-164	39:19						0.000971	0.000971		
PCB-129	39:37	891	1.24	0.9464	0.0345	0.0292	0.001065	0.001065		RQ
PCB-138 (C129)	39:37	891	1.24	0.9464	0.0345	0.0292	0.001065	0.001065		RQ
PCB-160 (C129)	39:37	891	1.24	0.9464	0.0345	0.0292	0.001065	0.001065		RQ
PCB-163 (C129)	39:37	891	1.24	0.9464	0.0345	0.0292	0.001065	0.001065		RQ
PCB-158	40:00						0.000769	0.000769		
PCB-128	40:51						0.001025	0.001025		
PCB-166 (C128)	40:51						0.001025	0.001025		
PCB-159	41:50						0.000727	0.000727		
PCB-162	42:08						0.000802	0.000802		
PCB-167	42:36						0.000745	0.000745		
PCB-156	43:46						0.001134	0.001134		
PCB-157 (C156)	43:46						0.001134	0.001134		
PCB-169	46:59						0.000730	0.000730		
S Total Heptachlorobiphenyls					0.0490	0.0122	0.002620	0.002620		RQ
D PCB-188L	36:59	2312286	1.06	1.3133	78.1	78.1	0.0259	0.0259	78.07	
\$ PCB-178L	40:03	1751670	1.06	1.0313	75.3	75.3	0.0330	0.0330	75.31	
* PCB-180L	45:06	2255195	1.13		100.0	100.0				
D PCB-170L	46:23	1671623	1.08	0.8362	88.6	88.6	0.0406	0.0406	88.64	
D PCB-189L	49:29	3810567	1.09	1.4414	86.7	86.7	0.3825	0.3825	86.66	
PCB-188	37:01						0.001377	0.001377		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22						0.001271	0.001271		
PCB-184	37:52						0.001327	0.001327		
PCB-176	38:14						0.001471	0.001471		
PCB-186	38:42						0.001231	0.001231		
PCB-178	40:04						0.002027	0.002027		
PCB-175	40:42						0.001904	0.001904		
PCB-187	40:58						0.001646	0.001646		
PCB-182	41:09						0.001961	0.001961		
PCB-183	41:33	239	1.05	0.9825	0.0490	0.0122	0.001846	0.001846		RQ
PCB-185 (C183)	41:33	239	1.05	0.9825	0.0490	0.0122	0.001846	0.001846		RQ
PCB-174	41:50						0.001881	0.001881		
PCB-177	42:16						0.001856	0.001856		
PCB-181	42:39						0.001908	0.001908		
PCB-171	42:52						0.001943	0.001943		
PCB-173 (C171)	42:52						0.001943	0.001943		
PCB-172	44:30						0.002129	0.002129		
PCB-192	44:45						0.001348	0.001348		
PCB-180	45:06						0.001553	0.001553		
PCB-193 (C180)	45:06						0.001553	0.001553		
PCB-191	45:30						0.001407	0.001407		
PCB-170	46:25						0.001821	0.001821		
PCB-190	46:55						0.001361	0.001361		
PCB-189	49:30						0.0218	0.0218		
S Total Octachlorobiphenyls							0.0116	0.0116		
D PCB-202L	42:21	1770655	0.90	0.9818	80.0	80.0	0.0537	0.0537	79.97	
* PCB-194L	51:35	3050490	0.94		100.0	100.0				
D PCB-205L	52:02	3195251	0.90	1.1786	88.9	88.9	0.0665	0.0665	88.88	
PCB-202	42:23						0.005876	0.005876		
PCB-201	43:17						0.006240	0.006240		
PCB-204	43:57						0.005805	0.005805		
PCB-197	44:11						0.005312	0.005312		
PCB-200	44:19						0.006043	0.006043		
PCB-198	47:04						0.006998	0.006998		
PCB-199 (C198)	47:04						0.006998	0.006998		
PCB-196	47:44						0.007797	0.007797		
PCB-203	47:56						0.006550	0.006550		
PCB-195	49:16						0.0116	0.0116		
PCB-194	51:36						0.009818	0.009818		
PCB-205	52:04						0.008787	0.008787		
S Total Nonachlorobiphenyls							0.1704	0.1704		
D PCB-208L	49:00	2485415	0.81	0.9576	85.1	85.1	0.3041	0.3041	85.08	
D PCB-206L	53:47	2027408	0.80	0.6947	95.7	95.7	0.4192	0.4192	95.67	
PCB-208	49:02						0.1599	0.1599		
PCB-207	49:57						0.1469	0.1469		
PCB-206	53:49						0.1704	0.1704		
D PCB-209L	55:24	2153516	0.72	0.6669	105.9	105.9	0.0841	0.0841	106	
DCB Decachlorobiphenyl	55:26						0.007670	0.007670		
S Polychlorinated biphenyls, Total					0.6210		0.0380	0.0380		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-b-14-d.d
Lims ID: 140-37232-B-14-D
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 16-Jul-2024 02:56:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 19:23:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 19:23:55

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:37	11:39	-2	0.727	4427772	1665380	887	2217	1878		
202.0766	11:37	11:39	-2	0.727	1391652	534430	705	1762	758	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:48	-1	0.862	4173410	1234611	887	2217	1392		
202.0766	13:46	13:48	-1	0.862	1290289	383404	705	1762	544	3.23(2.66-3.60)	
PCB-1											
188.0393	11:37						128	320			
190.0363	11:37						12	30			
PCB-2											
188.0393	13:37	13:37	0	0.989	2372	671	128	320	5		RQM
	Empc Correction				1201	403	128	320	3		M
190.0363	13:36	13:37	-1	0.989	384	129	12	30	11	6.18(2.66-3.60)	
PCB-3											
188.0393	13:46						128	320			
190.0363	13:46						12	30			
PCB-4L											
234.0406	14:01	14:03	-1	0.877	1389794	424149	366	915	1159		
236.0376	14:01	14:03	-1	0.877	872939	275663	154	385	1790	1.59(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		2897901	761579	366	915	2081		
236.0376	15:57	15:59	-2		1795332	477373	154	385	3100	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:47						366	915			
236.0376	16:47						154	385			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	0	1.245	2349404	459378	366	915	1255		
236.0376	19:53	19:54	0	1.245	1395447	284808	154	385	1849	1.68(1.33-1.79)	
PCB-4											
222.0003	14:01						46	115			
223.9974	14:01						110	275			
PCB-10											
222.0003	14:12						46	115			
223.9974	14:12						110	275			
PCB-9											
222.0003	15:58						46	115			
223.9974	15:58						110	275			
PCB-7											
222.0003	16:07						46	115			
223.9974	16:07						110	275			
PCB-6											
222.0003	16:22						46	115			
223.9974	16:22						110	275			
PCB-5											
222.0003	16:41						46	115			
223.9974	16:41						110	275			
PCB-8											
222.0003	16:48						46	115			
223.9974	16:48						110	275			
PCB-14											
222.0003	18:26						46	115			
223.9974	18:26						110	275			
PCB-11											
222.0003	19:27						46	115			
223.9974	19:27						110	275			
PCB-12											
222.0003	19:46						46	115			
223.9974	19:46						110	275			
PCB-13 (C12)											
222.0003	19:46						46	115			
223.9974	19:46						110	275			
PCB-15											
222.0003	19:54						46	115			
223.9974	19:54						110	275			
PCB-19L											
268.0016	17:07	17:07	-1	0.841	731153	191674	465	1162	412		
269.9986	17:07	17:07	-1	0.841	680990	183224	514	1285	356	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:20	20:20	0		1633648	382913	465	1162	823		
269.9986	20:20	20:20	0		1520152	361029	514	1285	702	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:35	22:35	0		3499082	786997	623	1557	1263		
269.9986	22:35	22:35	0		3348286	733794	328	820	2237	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:52	22:57	0	1.012	2655897	539248	623	1557	866		
269.9986	22:52	22:57	0	1.012	2540031	519523	328	820	1584	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:58	0	1.190	2275345	381055	623	1557	612		
269.9986	26:54	26:58	1	1.191	2194665	364679	328	820	1112	1.04(0.88-1.20)	
PCB-19											
255.9613	17:07						15	37			
257.9584	17:07						22	55			
PCB-18											
255.9613	18:54						15	37			
257.9584	18:54						22	55			
PCB-30 (C18)											
255.9613	18:54						15	37			
257.9584	18:54						22	55			
PCB-17											
255.9613	19:28						15	37			
257.9584	19:28						22	55			
PCB-27											
255.9613	19:36						15	37			
257.9584	19:36						22	55			
PCB-24											
255.9613	19:43						15	37			
257.9584	19:43						22	55			
PCB-16											
255.9613	19:51						15	37			
257.9584	19:51						22	55			
PCB-32											
255.9613	20:22	20:23	0	1.191	814	276	15	37	18		RQM
	Empc Correction				401	103	15	37	7		
257.9584	20:23	20:23	1	1.191	386	100	22	55	5	2.11(0.88-1.20)	M
PCB-34											
255.9613	21:35						63	157			
257.9584	21:35						45	112			
PCB-23											
255.9613	21:44						63	157			
257.9584	21:44						45	112			
PCB-26											
255.9613	22:04						63	157			
257.9584	22:04						45	112			
PCB-29 (C26)											
255.9613	22:04						63	157			
257.9584	22:04						45	112			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:18						63	157			
257.9584	22:18						45	112			
PCB-31											
255.9613	22:37						63	157			
257.9584	22:37						45	112			
PCB-20											
255.9613	22:54	22:56	-1	0.852	2220	553	63	157	9		
257.9584	22:55	22:56	0	0.852	2419	556	45	112	12	0.92(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:54	22:56	-1	0.852	2220	553	63	157	9		
257.9584	22:55	22:56	0	0.852	2419	556	45	112	12	0.92(0.88-1.20)	
PCB-21											
255.9613	23:08	23:06	3	0.861	1262	414	63	157	7		RQ
257.9584	23:08	23:06	3	0.860	1488	258	45	112	6	0.85(0.88-1.20)	
Empc Correction					1213	398	45	112	9		
PCB-33 (C21)											
255.9613	23:08	23:06	3	0.861	1262	414	63	157	7		RQ
257.9584	23:08	23:06	3	0.860	1488	258	45	112	6	0.85(0.88-1.20)	
Empc Correction					1213	398	45	112	9		
PCB-22											
255.9613	23:33						63	157			
257.9584	23:33						45	112			
PCB-36											
255.9613	25:05						63	157			
257.9584	25:05						45	112			
PCB-39											
255.9613	25:27						63	157			
257.9584	25:27						45	112			
PCB-38											
255.9613	26:01						63	157			
257.9584	26:01						45	112			
PCB-35											
255.9613	26:30						63	157			
257.9584	26:30						45	112			
PCB-37											
255.9613	26:55						63	157			
257.9584	26:55						45	112			
PCB-54L											
301.9626	20:10	20:13	-1	0.817	640472	156813	73	182	2148		
303.9597	20:10	20:13	-1	0.817	765760	189875	39	97	4869	0.84(0.65-0.89)	
PCB-52L											
301.9626	24:42	24:42	0		1594616	353052	217	542	1627		
303.9597	24:42	24:42	0		1967822	429458	365	912	1177	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:37						217	542			
303.9597	32:37						365	912			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:36	33:39	0	1.361	1536302	268612	217	542	1238		
303.9597	33:36	33:39	0	1.361	1967990	356678	365	912	977	0.78(0.65-0.89)	
PCB-77L											
301.9626	34:11	34:14	0	1.384	1770762	297738	217	542	1372		
303.9597	34:11	34:14	0	1.384	2095753	352862	365	912	967	0.84(0.65-0.89)	
PCB-54											
289.9224	20:12						7	17			
291.9194	20:12						10	25			
PCB-50											
289.9224	22:21						24	60			
291.9194	22:21						131	327			
PCB-53 (C50)											
289.9224	22:21						24	60			
291.9194	22:21						131	327			
PCB-45											
289.9224	23:04						24	60			
291.9194	23:04						131	327			
PCB-51 (C45)											
289.9224	23:04						24	60			
291.9194	23:04						131	327			
PCB-46											
289.9224	23:20						24	60			
291.9194	23:20						131	327			
PCB-52											
289.9224	24:43						24	60			
291.9194	24:43						131	327			
PCB-43											
289.9224	24:51						24	60			
291.9194	24:51						131	327			
PCB-73 (C43)											
289.9224	24:51						24	60			
291.9194	24:51						131	327			
PCB-49											
289.9224	25:08						24	60			
291.9194	25:08						131	327			
PCB-69 (C49)											
289.9224	25:08						24	60			
291.9194	25:08						131	327			
PCB-48											
289.9224	25:28						24	60			
291.9194	25:28						131	327			
PCB-44											
289.9224	25:43						24	60			
291.9194	25:43						131	327			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:43						24	60			
291.9194	25:43						131	327			
PCB-65 (C44)											
289.9224	25:43						24	60			
291.9194	25:43						131	327			
PCB-59											
289.9224	26:02						24	60			
291.9194	26:02						131	327			
PCB-62 (C59)											
289.9224	26:02						24	60			
291.9194	26:02						131	327			
PCB-75 (C59)											
289.9224	26:02						24	60			
291.9194	26:02						131	327			
PCB-42											
289.9224	26:29						24	60			
291.9194	26:29						131	327			
PCB-40											
289.9224	26:44						24	60			
291.9194	26:44						131	327			
PCB-41 (C40)											
289.9224	26:44						24	60			
291.9194	26:44						131	327			
PCB-71 (C40)											
289.9224	26:44						24	60			
291.9194	26:44						131	327			
PCB-64											
289.9224	26:56						24	60			
291.9194	26:56						131	327			
PCB-72											
289.9224	27:47						24	60			
291.9194	27:47						131	327			
PCB-68											
289.9224	28:04						24	60			
291.9194	28:04						131	327			
PCB-57											
289.9224	28:29						24	60			
291.9194	28:29						131	327			
PCB-58											
289.9224	28:44						24	60			
291.9194	28:44						131	327			
PCB-67											
289.9224	28:53						24	60			
291.9194	28:53						131	327			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:09						24	60			
291.9194	29:09						131	327			
PCB-61											
289.9224	29:32	29:30	3	0.879	713	259	24	60	11		RQ
291.9194	29:31	29:30	1	0.878	2596	927	131	327	7	0.27(0.65-0.89)	
	Empc Correction				925	336	131	327	3		
PCB-70 (C61)											
289.9224	29:32	29:30	3	0.879	713	259	24	60	11		RQ
291.9194	29:31	29:30	1	0.878	2596	927	131	327	7	0.27(0.65-0.89)	
	Empc Correction				925	336	131	327	3		
PCB-74 (C61)											
289.9224	29:32	29:30	3	0.879	713	259	24	60	11		RQ
291.9194	29:31	29:30	1	0.878	2596	927	131	327	7	0.27(0.65-0.89)	
	Empc Correction				925	336	131	327	3		
PCB-76 (C61)											
289.9224	29:32	29:30	3	0.879	713	259	24	60	11		RQ
291.9194	29:31	29:30	1	0.878	2596	927	131	327	7	0.27(0.65-0.89)	
	Empc Correction				925	336	131	327	3		
PCB-66											
289.9224	29:49						24	60			
291.9194	29:49						131	327			
PCB-55											
289.9224	29:59						24	60			
291.9194	29:59						131	327			
PCB-56											
289.9224	30:30						24	60			
291.9194	30:30						131	327			
PCB-60											
289.9224	30:42						24	60			
291.9194	30:42						131	327			
PCB-80											
289.9224	31:06						24	60			
291.9194	31:06						131	327			
PCB-79											
289.9224	32:38						24	60			
291.9194	32:38						131	327			
PCB-78											
289.9224	33:11						24	60			
291.9194	33:11						131	327			
PCB-81											
289.9224	33:38						24	60			
291.9194	33:38						131	327			
PCB-77											
289.9224	34:11						24	60			
291.9194	34:11						131	327			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104L											
337.9207	25:38	25:38	-1	0.813	1421323	316118	109	272	2900		
339.9178	25:38	25:38	-1	0.813	908182	198403	26	65	7631	1.57(1.32-1.78)	
PCB-95L											
337.9207	28:36						109	272			
339.9178	28:36						26	65			
PCB-101L											
337.9207	31:31	31:31	0		1568390	315439	109	272	2894		
339.9178	31:31	31:31	0		950813	195606	26	65	7523	1.65(1.32-1.78)	
PCB-111L											
337.9207	34:12	34:11	0	1.085	1572311	305740	109	272	2805		
339.9178	34:12	34:11	0	1.085	981685	192802	26	65	7415	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	2097217	397508	1669	4172	238		
339.9178	36:09	36:09	0	1.147	1322909	257879	1428	3570	181	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:28	36:29	0	1.157	2223562	417214	1669	4172	250		
339.9178	36:28	36:29	0	1.157	1373558	254909	1428	3570	179	1.62(1.32-1.78)	
PCB-114L											
337.9207	37:00	37:00	0	1.174	2151426	401842	1669	4172	241		
339.9178	37:00	37:00	0	1.174	1359212	256636	1428	3570	180	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	0	1.195	2162810	406587	1669	4172	244		
339.9178	37:40	37:40	0	1.195	1369283	255280	1428	3570	179	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		2696025	493208	1669	4172	296		
339.9178	39:07	39:07	0		1700266	308472	1428	3570	216	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:45	40:45	0	1.293	2231082	402315	1669	4172	241		
339.9178	40:45	40:45	0	1.293	1383898	246336	1428	3570	173	1.61(1.32-1.78)	
PCB-104											
325.8804	25:41						38	95			
327.8775	25:41						3	7			
PCB-96											
325.8804	26:02						38	95			
327.8775	26:02						3	7			
PCB-103											
325.8804	27:57						38	95			
327.8775	27:57						3	7			
PCB-94											
325.8804	28:10						38	95			
327.8775	28:10						3	7			
PCB-95											
325.8804	28:37						38	95			
327.8775	28:37						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-93											RQU
325.8804	28:52						38	95			
327.8775	28:52						3	7			
PCB-100 (C93)											RQU
325.8804	28:52						38	95			
327.8775	28:52						3	7			
PCB-98											
325.8804	28:59						38	95			
327.8775	28:59						3	7			
PCB-102 (C98)											
325.8804	28:59						38	95			
327.8775	28:59						3	7			
PCB-88											
325.8804	29:31						38	95			
327.8775	29:31						3	7			
PCB-91 (C88)											
325.8804	29:31						38	95			
327.8775	29:31						3	7			
PCB-84											
325.8804	29:43						38	95			
327.8775	29:43						3	7			
PCB-89											
325.8804	30:13						38	95			
327.8775	30:13						3	7			
PCB-121											
325.8804	30:34						38	95			
327.8775	30:34						3	7			
PCB-92											
325.8804	30:57						38	95			
327.8775	30:57						3	7			
PCB-90											
325.8804	31:33						38	95			
327.8775	31:33						3	7			
PCB-101 (C90)											
325.8804	31:33						38	95			
327.8775	31:33						3	7			
PCB-113 (C90)											
325.8804	31:33						38	95			
327.8775	31:33						3	7			
PCB-83											RQU
325.8804	32:09						38	95			
327.8775	32:09						3	7			
PCB-99 (C83)											RQU
325.8804	32:09						38	95			
327.8775	32:09						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-112											RQU
325.8804	32:16						38	95			
327.8775	32:16						3	7			
PCB-86											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-87 (C86)											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-97 (C86)											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-109 (C86)											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-119 (C86)											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-125 (C86)											RQ
325.8804	32:40	32:38	4	1.275	1182	328	38	95	9		
	Empc Correction				199	99	38	95	3		
327.8775	32:37	32:38	0	1.272	129	64	3	7	21	9.16(1.32-1.78)	
PCB-85											
325.8804	33:19						38	95			
327.8775	33:19						3	7			
PCB-116 (C85)											
325.8804	33:19						38	95			
327.8775	33:19						3	7			
PCB-117 (C85)											
325.8804	33:19						38	95			
327.8775	33:19						3	7			
PCB-110											RQM
325.8804	33:32	33:35	-1	1.309	1655	368	38	95	10		
	Empc Correction				471	92	38	95	2		
327.8775	33:35	33:35	2	1.310	304	60	3	7	20	5.44(1.32-1.78)	M
PCB-115 (C110)											RQM
325.8804	33:32	33:35	-1	1.309	1655	368	38	95	10		
	Empc Correction				471	92	38	95	2		
327.8775	33:35	33:35	2	1.310	304	60	3	7	20	5.44(1.32-1.78)	M
PCB-82											RQM
325.8804	33:49	33:49	-1	1.320	1408	345	38	95	9		M
	Empc Correction				554	127	38	95	3		
327.8775	33:46	33:49	-5	1.317	358	82	3	7	27	3.93(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-111											
325.8804	34:11						38	95			
327.8775	34:11						3	7			
PCB-120											
325.8804	34:39						38	95			
327.8775	34:39						3	7			
PCB-108											
325.8804	35:49						50	125			
327.8775	35:49						32	80			
PCB-124 (C108)											
325.8804	35:49						50	125			
327.8775	35:49						32	80			
PCB-107											
325.8804	36:03						50	125			
327.8775	36:03						32	80			
PCB-123											
325.8804	36:11						50	125			
327.8775	36:11						32	80			
PCB-106											
325.8804	36:18						50	125			
327.8775	36:18						32	80			
PCB-118											
325.8804	36:30						50	125			
327.8775	36:30						32	80			
PCB-122											
325.8804	36:51						50	125			
327.8775	36:51						32	80			
PCB-114											
325.8804	37:02						50	125			
327.8775	37:02						32	80			
PCB-105											
325.8804	37:41						50	125			
327.8775	37:41						32	80			
PCB-127											
325.8804	39:08						50	125			
327.8775	39:08						32	80			
PCB-126											
325.8804	40:46						50	125			
327.8775	40:46						32	80			
PCB-155L											
371.8817	31:16	31:15	0	0.790	1168604	241550	52	130	4645		
373.8788	31:16	31:15	0	0.790	904598	188934	103	257	1834	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:19	0	0.900	30449	6659	916	2290	7		RQ
	Empc Correction				22157	4250	916	2290	5		
373.8788	38:20	38:19	0	0.900	17869	3428	530	1325	6	1.70(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-138L											
371.8817	39:35	39:36	0		1658735	323791	916	2290	353		
373.8788	39:35	39:36	0		1295524	249904	530	1325	472	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:34	0	1.076	1823664	341878	916	2290	373		
373.8788	42:35	42:34	0	1.076	1381634	259718	530	1325	490	1.32(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:43	0	1.105	3566190	434931	916	2290	475		
373.8788	43:45	43:43	1	1.105	2796910	358960	530	1325	677	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:43	0	1.105	3566190	434931	916	2290	475		
373.8788	43:45	43:43	1	1.105	2796910	358960	530	1325	677	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:57	0	1.187	1879406	330624	916	2290	361		
373.8788	46:58	46:57	0	1.187	1454301	258076	530	1325	487	1.29(1.05-1.43)	
PCB-155											
359.8415	31:18						2	5			
361.8385	31:18						3	7			
PCB-152											
359.8415	31:31						2	5			
361.8385	31:31						3	7			
PCB-150											
359.8415	31:41						2	5			
361.8385	31:41						3	7			
PCB-136											
359.8415	32:04						2	5			
361.8385	32:04						3	7			
PCB-145											
359.8415	32:20						2	5			
361.8385	32:20						3	7			
PCB-148											
359.8415	33:50						2	5			
361.8385	33:50						3	7			
PCB-135											
359.8415	34:26						2	5			
361.8385	34:26						3	7			
PCB-151 (C135)											
359.8415	34:26						2	5			
361.8385	34:26						3	7			
PCB-154											
359.8415	34:41						2	5			
361.8385	34:41						3	7			
PCB-144											
359.8415	35:00						2	5			
361.8385	35:00						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-147											RQM
359.8415	35:25	35:19	3	1.133	328	159	1	2	159		M
	Empc Correction				271	63	1	2	63		
361.8385	35:19	35:19	-3	1.130	219	51	1	2	51	1.50(1.05-1.43)	M
PCB-149 (C147)											RQM
359.8415	35:25	35:19	3	1.133	328	159	1	2	159		M
	Empc Correction				271	63	1	2	63		
361.8385	35:19	35:19	-3	1.130	219	51	1	2	51	1.50(1.05-1.43)	M
PCB-134											RQU
359.8415	35:40						1	2			
361.8385	35:40						1	2			
PCB-143 (C134)											RQU
359.8415	35:40						1	2			
361.8385	35:40						1	2			
PCB-139											
359.8415	35:58						1	2			
361.8385	35:58						1	2			
PCB-140 (C139)											
359.8415	35:58						1	2			
361.8385	35:58						1	2			
PCB-131											
359.8415	36:10						1	2			
361.8385	36:10						1	2			
PCB-142											
359.8415	36:19						1	2			
361.8385	36:19						1	2			
PCB-132											
359.8415	36:39						1	2			
361.8385	36:39						1	2			
PCB-133											
359.8415	37:07						1	2			
361.8385	37:07						1	2			
PCB-165											
359.8415	37:30						1	2			
361.8385	37:30						1	2			
PCB-146											
359.8415	37:45						1	2			
361.8385	37:45						1	2			
PCB-161											
359.8415	37:53						1	2			
361.8385	37:53						1	2			
PCB-153											RQM
359.8415	38:18	38:20	-5	0.899	1119	230	1	2	230		M
	Empc Correction				343	88	1	2	88		
361.8385	38:20	38:20	-3	0.900	277	71	1	2	71	4.04(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-168 (C153)											RQM
359.8415	38:18	38:20	-5	0.899	1119	230	1	2	230		M
	Empc Correction				343	88	1	2	88		
361.8385	38:20	38:20	-3	0.900	277	71	1	2	71	4.04(1.05-1.43)	M
PCB-141											
359.8415	38:33						1	2			
361.8385	38:33						1	2			
PCB-130											
359.8415	38:59						1	2			
361.8385	38:59						1	2			
PCB-137											
359.8415	39:11						1	2			
361.8385	39:11						1	2			
PCB-164											
359.8415	39:18						1	2			
361.8385	39:18						1	2			
PCB-129											RQ
359.8415	39:37	39:37	-1	0.930	656	247	1	2	247		
	Empc Correction				493	158	1	2	158		
361.8385	39:38	39:37	0	0.931	398	128	1	2	128	1.65(1.05-1.43)	
PCB-138 (C129)											RQ
359.8415	39:37	39:37	-1	0.930	656	247	1	2	247		
	Empc Correction				493	158	1	2	158		
361.8385	39:38	39:37	0	0.931	398	128	1	2	128	1.65(1.05-1.43)	
PCB-160 (C129)											RQ
359.8415	39:37	39:37	-1	0.930	656	247	1	2	247		
	Empc Correction				493	158	1	2	158		
361.8385	39:38	39:37	0	0.931	398	128	1	2	128	1.65(1.05-1.43)	
PCB-163 (C129)											RQ
359.8415	39:37	39:37	-1	0.930	656	247	1	2	247		
	Empc Correction				493	158	1	2	158		
361.8385	39:38	39:37	0	0.931	398	128	1	2	128	1.65(1.05-1.43)	
PCB-158											
359.8415	40:00						1	2			
361.8385	40:00						1	2			
PCB-128											
359.8415	40:50						1	2			
361.8385	40:50						1	2			
PCB-166 (C128)											
359.8415	40:50						1	2			
361.8385	40:50						1	2			
PCB-159											
359.8415	41:50						1	2			
361.8385	41:50						1	2			
PCB-162											
359.8415	42:07						1	2			
361.8385	42:07						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167											
359.8415	42:36						1	2			
361.8385	42:36						1	2			
PCB-156											
359.8415	43:47						1	2			
361.8385	43:47						1	2			
PCB-157 (C156)											
359.8415	43:47						1	2			
361.8385	43:47						1	2			
PCB-169											
359.8415	47:00						1	2			
361.8385	47:00						1	2			
PCB-188L											
405.8428	36:59	36:58	0	0.820	1191385	232557	46	115	5056		
407.8398	36:59	36:58	0	0.820	1120901	215346	12	30	17946	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:03	40:01	0	0.888	901105	173417	46	115	3770		
407.8398	40:03	40:01	0	0.888	850565	162790	12	30	13566	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	0		1194825	226998	46	115	4935		
407.8398	45:06	45:07	0		1060370	199667	12	30	16639	1.13(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:22	0	1.028	866534	168135	46	115	3655		
407.8398	46:23	46:22	0	1.028	805089	155846	12	30	12987	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:27	0	1.097	1986685	363117	813	2032	447		
407.8398	49:29	49:27	0	1.097	1823882	338326	446	1115	759	1.09(0.89-1.21)	
PCB-188											
393.8025	37:02						1	2			
395.7995	37:02						2	5			
PCB-179											
393.8025	37:23						1	2			
395.7995	37:23						2	5			
PCB-184											
393.8025	37:52						1	2			
395.7995	37:52						2	5			
PCB-176											
393.8025	38:15						1	2			
395.7995	38:15						2	5			
PCB-186											
393.8025	38:42						1	2			
395.7995	38:42						2	5			
PCB-178											
393.8025	40:04						1	2			
395.7995	40:04						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-175											
393.8025	40:42						1	2			
395.7995	40:42						2	5			
PCB-187											
393.8025	40:58						1	2			
395.7995	40:58						2	5			
PCB-182											
393.8025	41:10						1	2			
395.7995	41:10						2	5			
PCB-183											
393.8025	41:33	41:34	-1	1.123	842	301	1	2	301		RQ
	Empc Correction				122	62	1	2	62		
395.7995	41:37	41:34	3	1.125	117	60	2	5	30	7.20(0.89-1.21)	
PCB-185 (C183)											
393.8025	41:33	41:34	-1	1.123	842	301	1	2	301		RQ
	Empc Correction				122	62	1	2	62		
395.7995	41:37	41:34	3	1.125	117	60	2	5	30	7.20(0.89-1.21)	
PCB-174											
393.8025	41:50						1	2			
395.7995	41:50						2	5			
PCB-177											
393.8025	42:16						1	2			
395.7995	42:16						2	5			
PCB-181											
393.8025	42:39						1	2			
395.7995	42:39						2	5			
PCB-171											
393.8025	42:52						1	2			
395.7995	42:52						2	5			
PCB-173 (C171)											
393.8025	42:52						1	2			
395.7995	42:52						2	5			
PCB-172											
393.8025	44:30						1	2			
395.7995	44:30						2	5			
PCB-192											
393.8025	44:46						1	2			
395.7995	44:46						2	5			
PCB-180											
393.8025	45:06						1	2			
395.7995	45:06						2	5			
PCB-193 (C180)											
393.8025	45:06						1	2			
395.7995	45:06						2	5			
PCB-191											
393.8025	45:30						1	2			
395.7995	45:30						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-170											
393.8025	46:25						1	2			
395.7995	46:25						2	5			
PCB-190											
393.8025	46:55						1	2			
395.7995	46:55						2	5			
PCB-189											
393.8025	49:30						21	52			
395.7995	49:30						38	95			
PCB-202L											
439.8038	42:21	42:19	0	0.821	837956	171090	34	85	5032		
441.8008	42:21	42:19	0	0.821	932699	190361	56	140	3399	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:35	0		1480036	277309	69	172	4019		
441.8008	51:35	51:35	0		1570454	293437	110	275	2668	0.94(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:02	0	1.009	1511010	275715	69	172	3996		
441.8008	52:03	52:02	0	1.009	1684241	299725	110	275	2725	0.90(0.76-1.02)	
PCB-202											
427.7635	42:23						8	20			
429.7606	42:23						1	2			
PCB-201											
427.7635	43:18						8	20			
429.7606	43:18						1	2			
PCB-204											
427.7635	43:58						8	20			
429.7606	43:58						1	2			
PCB-197											
427.7635	44:11						8	20			
429.7606	44:11						1	2			
PCB-200											
427.7635	44:19						8	20			
429.7606	44:19						1	2			
PCB-198											
427.7635	47:05						8	20			
429.7606	47:05						1	2			
PCB-199 (C198)											
427.7635	47:05						8	20			
429.7606	47:05						1	2			
PCB-196											
427.7635	47:44						8	20			
429.7606	47:44						1	2			
PCB-203											
427.7635	47:56						8	20			
429.7606	47:56						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-195											
427.7635	49:16						15	37			
429.7606	49:16						7	17			
PCB-194											
427.7635	51:36						15	37			
429.7606	51:36						7	17			
PCB-205											
427.7635	52:04						15	37			
429.7606	52:04						7	17			
PCB-208L											
473.7648	49:00	48:59	0	0.950	1114829	213588	314	785	680		
475.7619	49:00	48:59	0	0.950	1370586	257567	351	877	734	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:47	0	1.043	903972	166803	314	785	531		
475.7619	53:47	53:47	0	1.043	1123436	210130	351	877	599	0.80(0.65-0.89)	
PCB-208											
461.7246	49:01						15	37			
463.7216	49:01						328	820			
PCB-207											
461.7246	49:57						15	37			
463.7216	49:57						328	820			
PCB-206											
461.7246	53:49						15	37			
463.7216	53:49						328	820			
PCB-209L											
507.7258	55:24	55:23	0	1.074	901139	158613	96	240	1652		
509.7229	55:25	55:23	1	1.074	1252377	220548	32	80	6892	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:26						10	25			
497.6826	55:26						3	7			

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

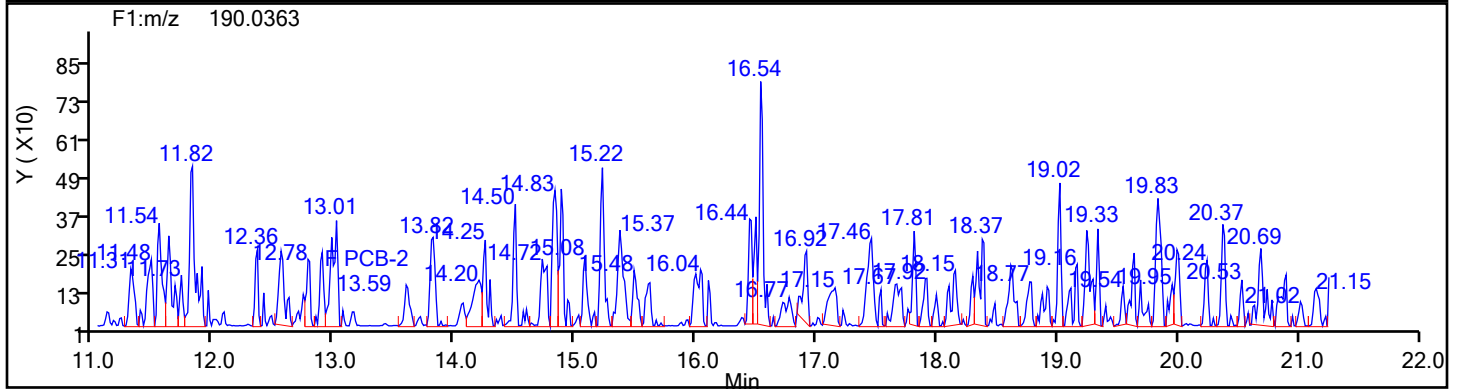
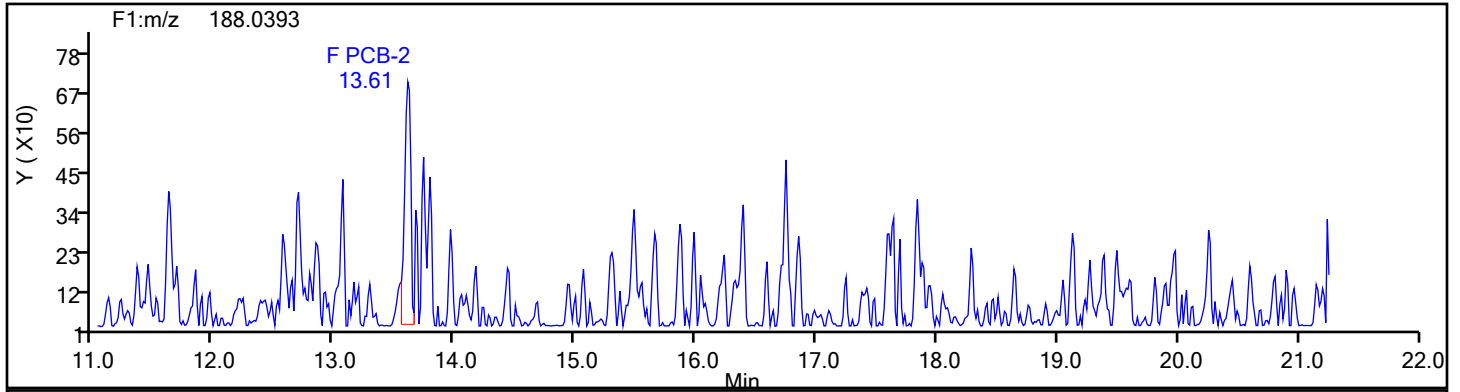
Review Flags

M - Manually Integrated

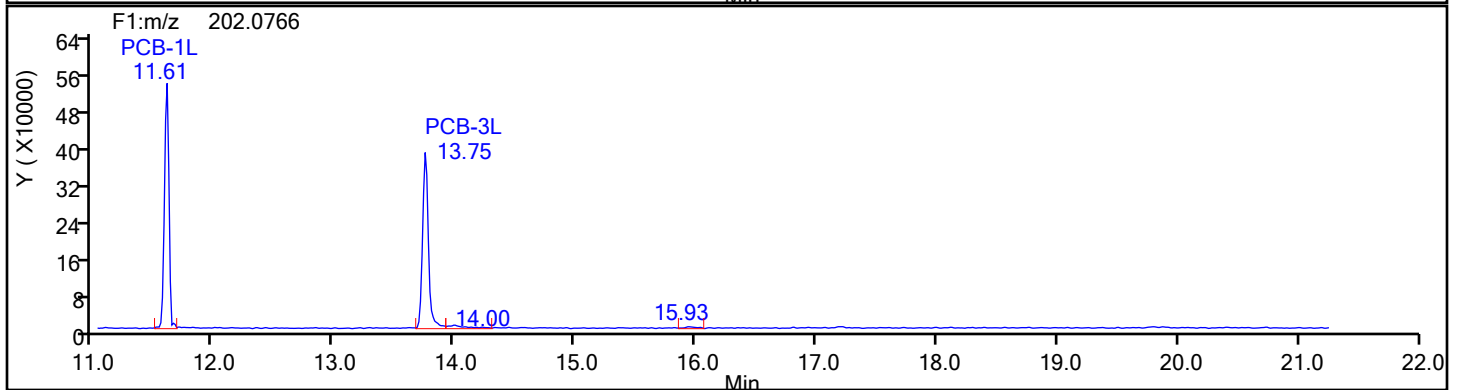
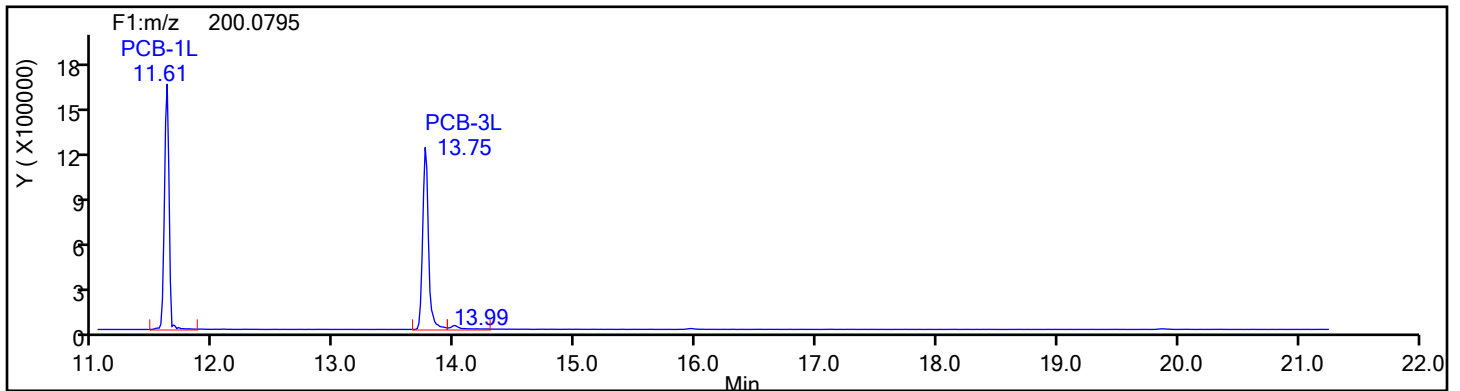
U - Marked Undetected

Eurofins Knoxville

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Injection Date: 16-Jul-2024 02:56:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

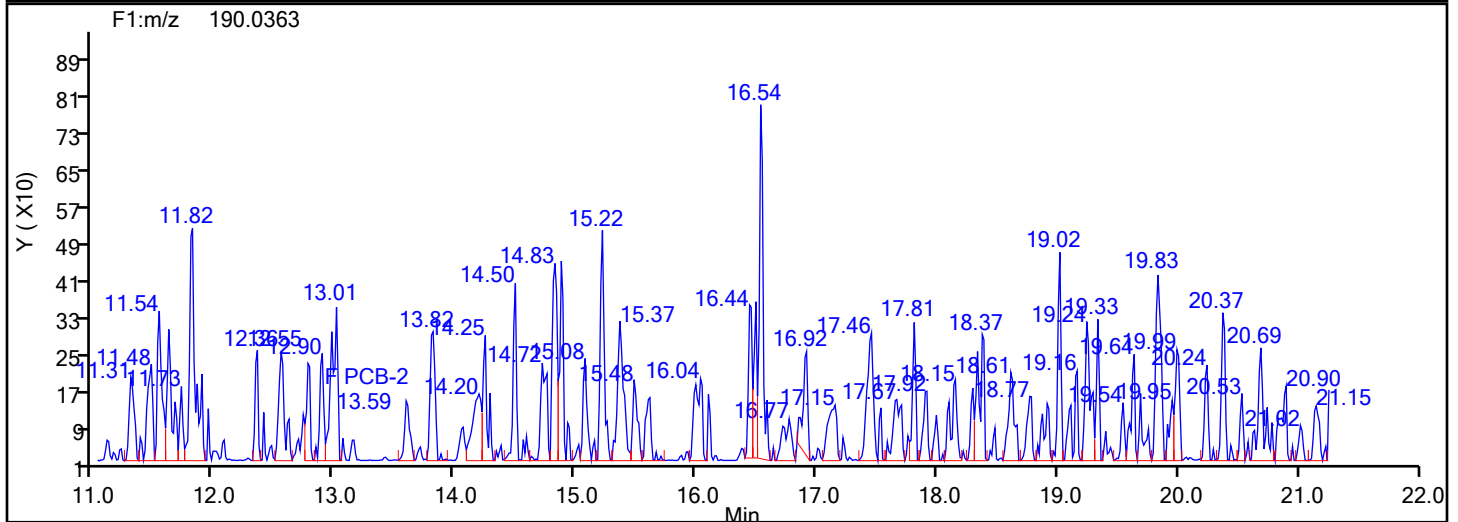
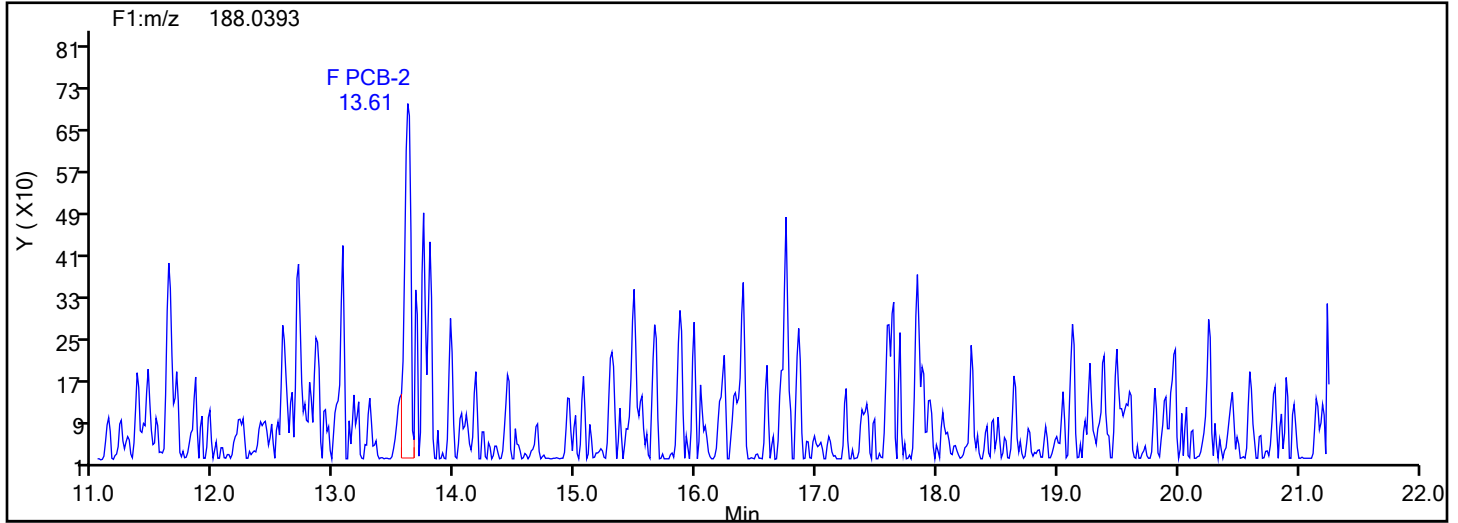


MoPCB F1 Standards

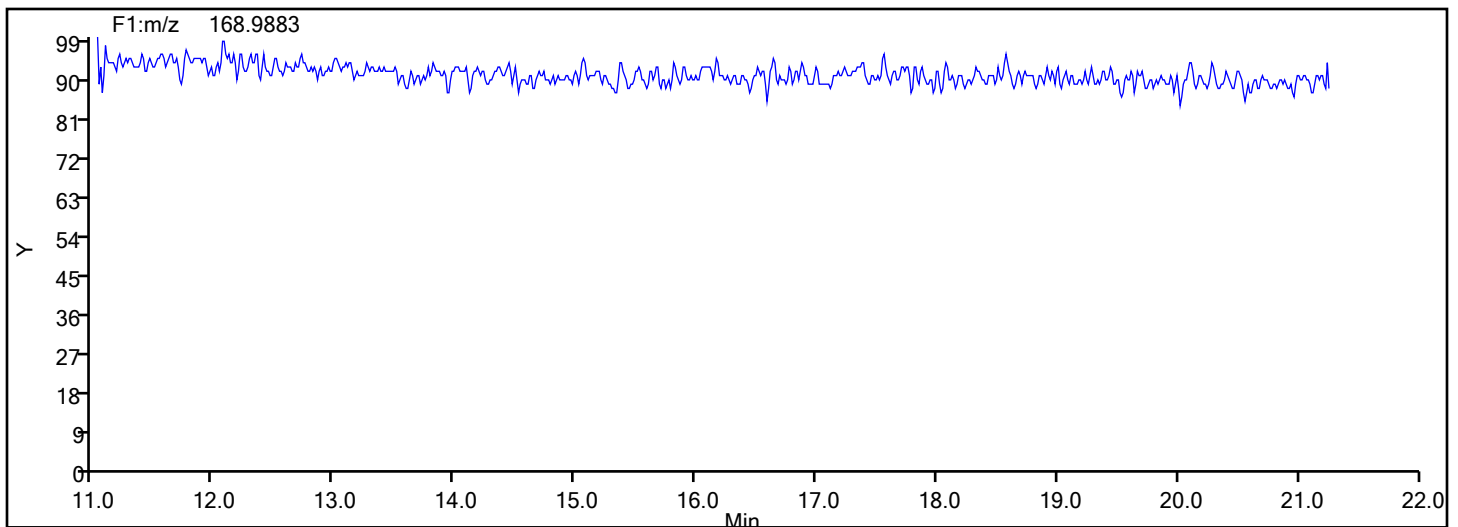


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1

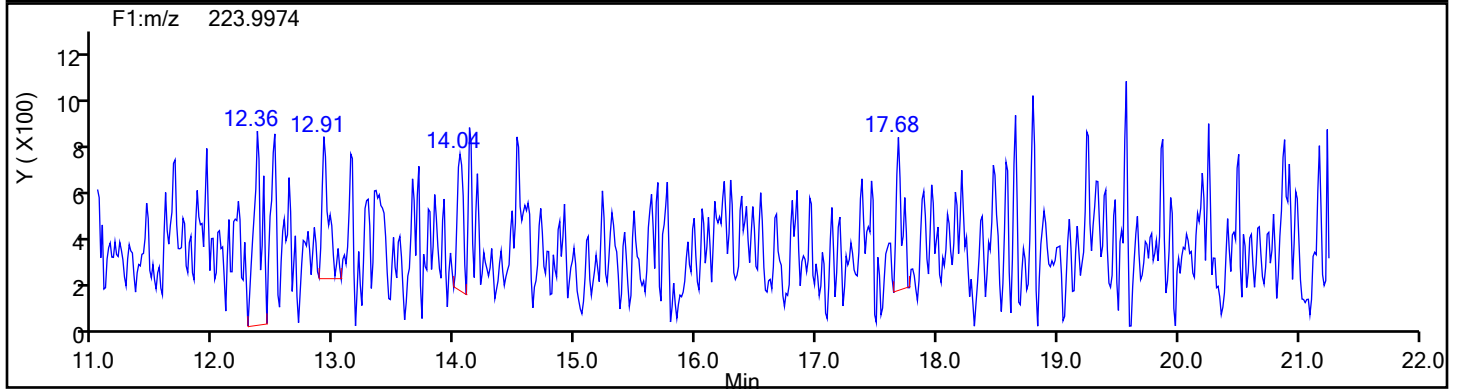
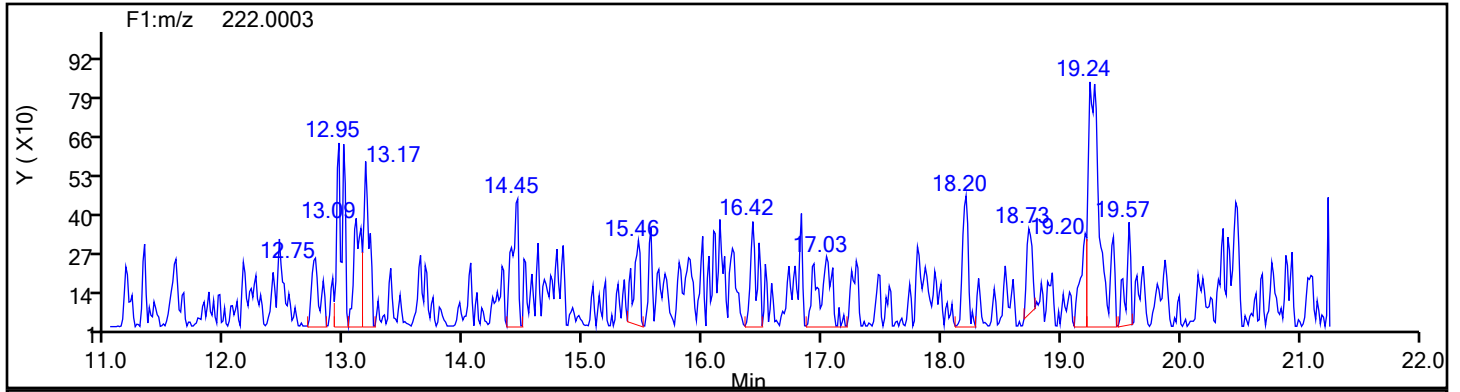


MoPCB F1 Lock Mass

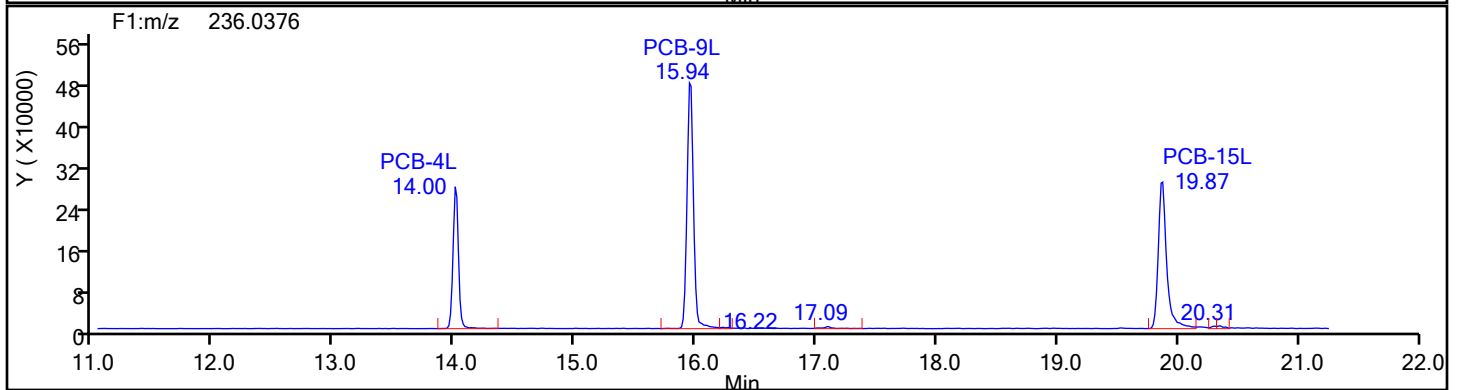
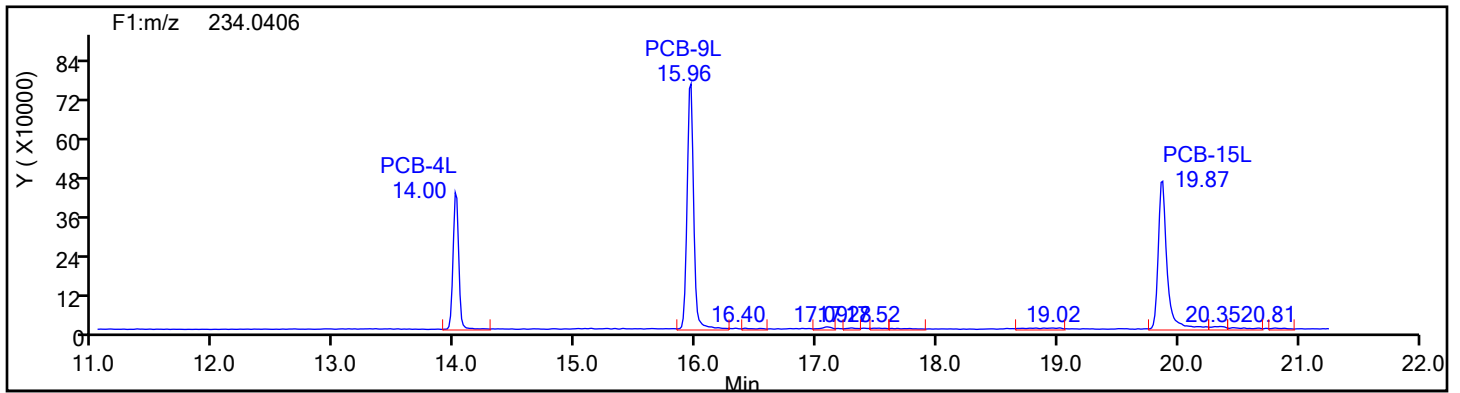


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

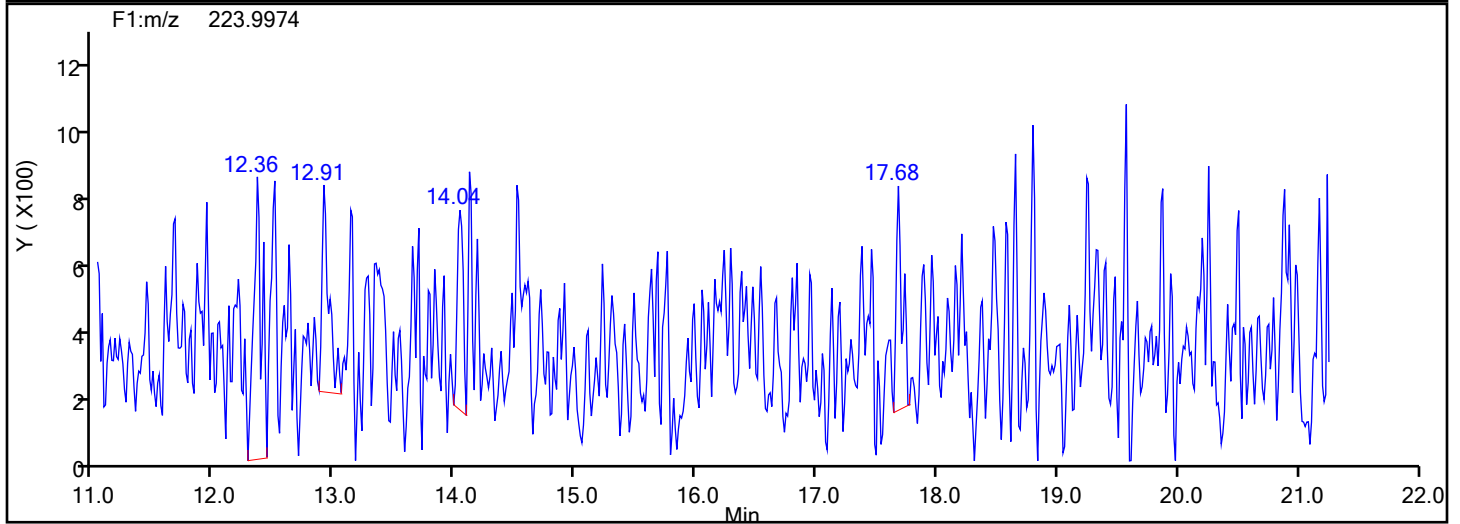
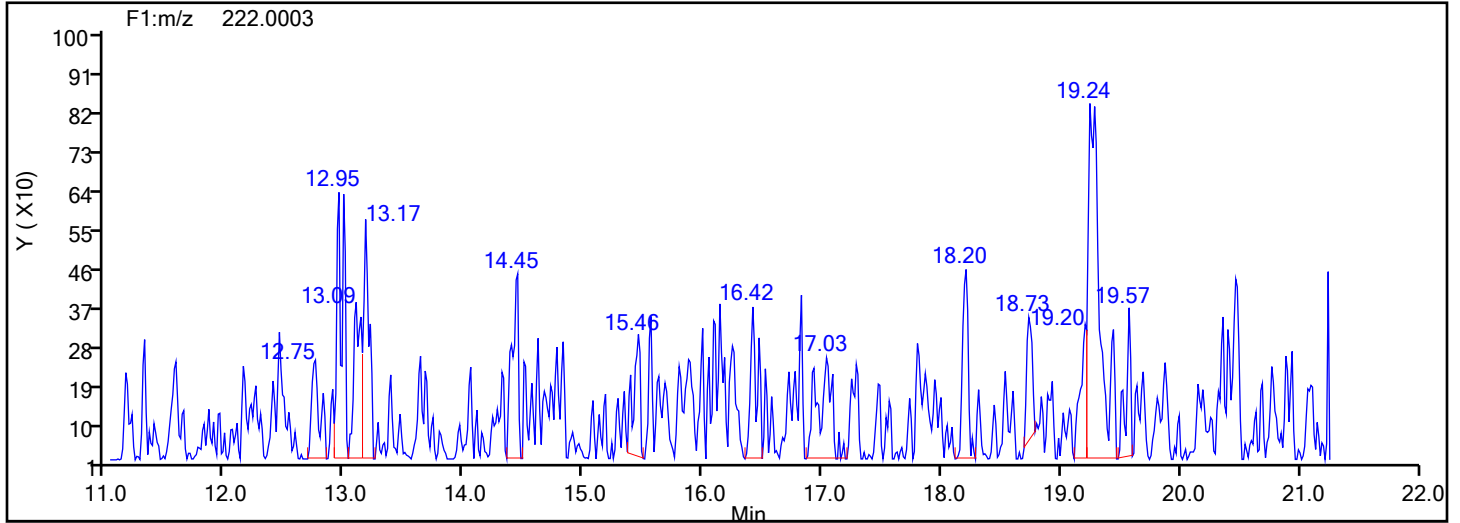


DiPCB F1 Standards

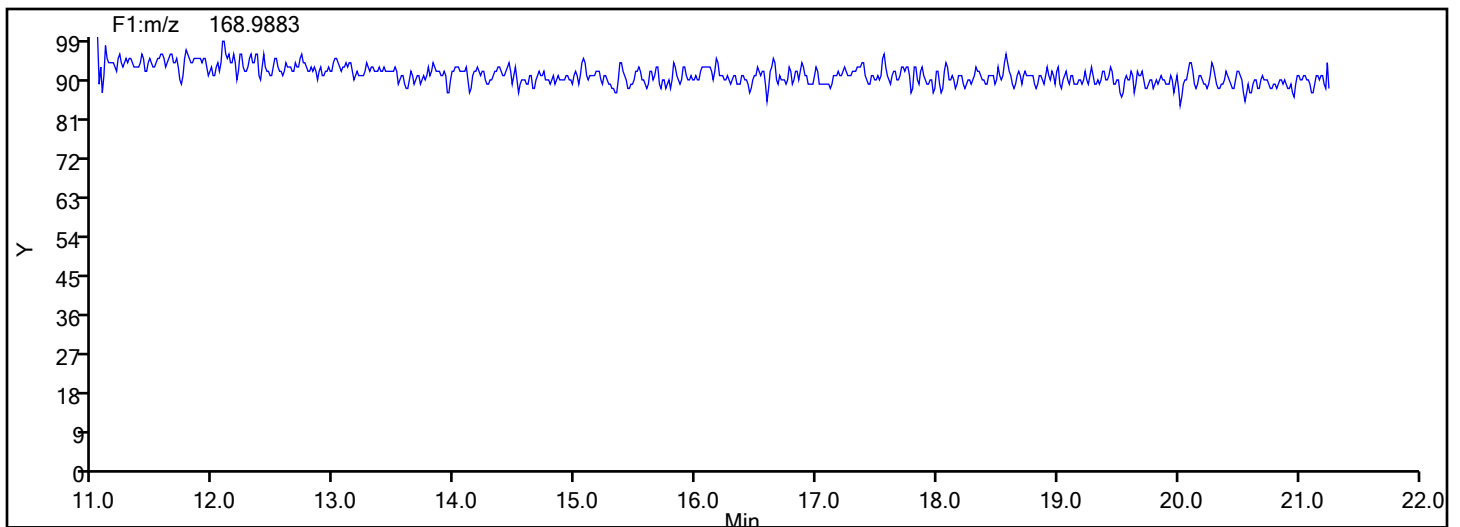


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

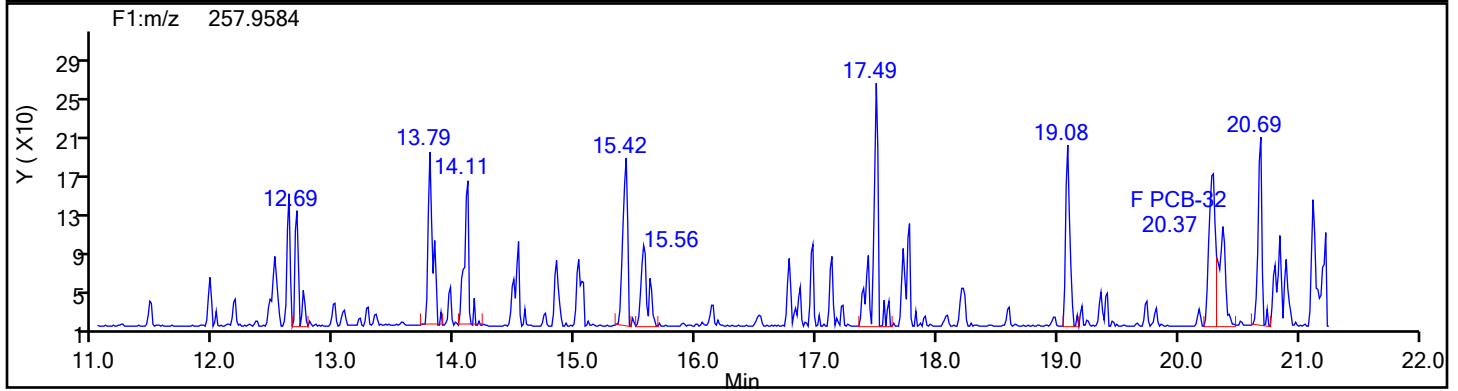
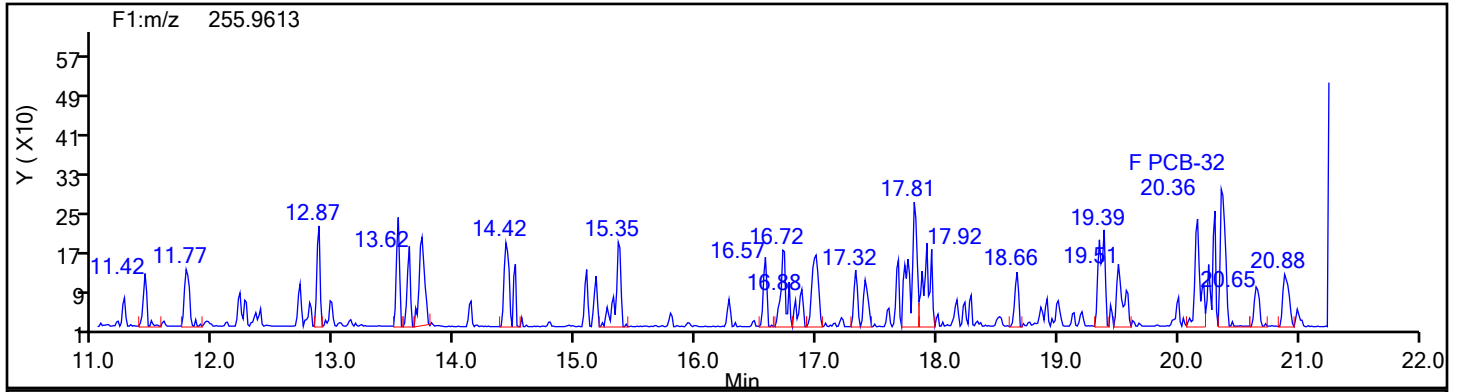


DiPCB F1 Lock Mass

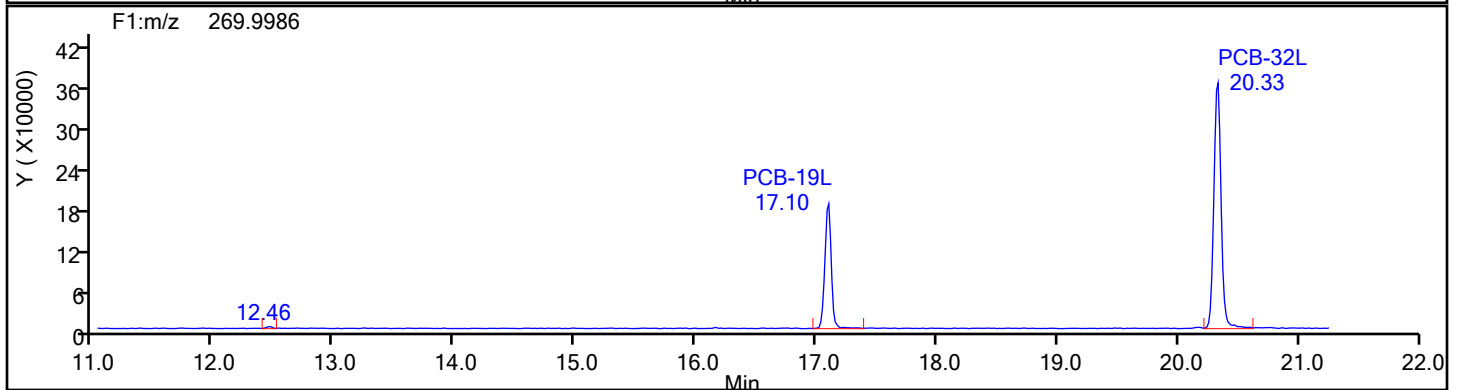
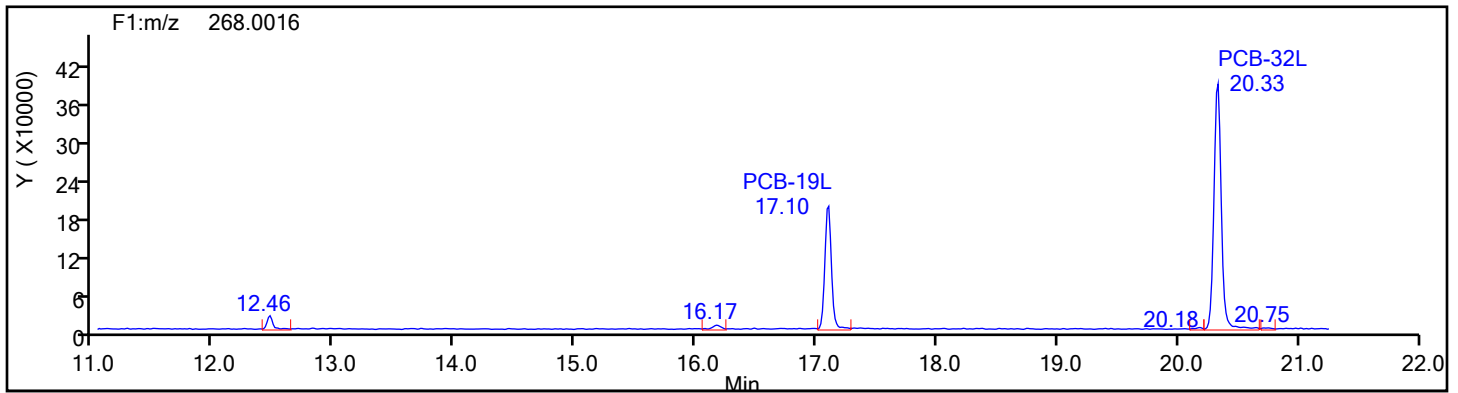


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

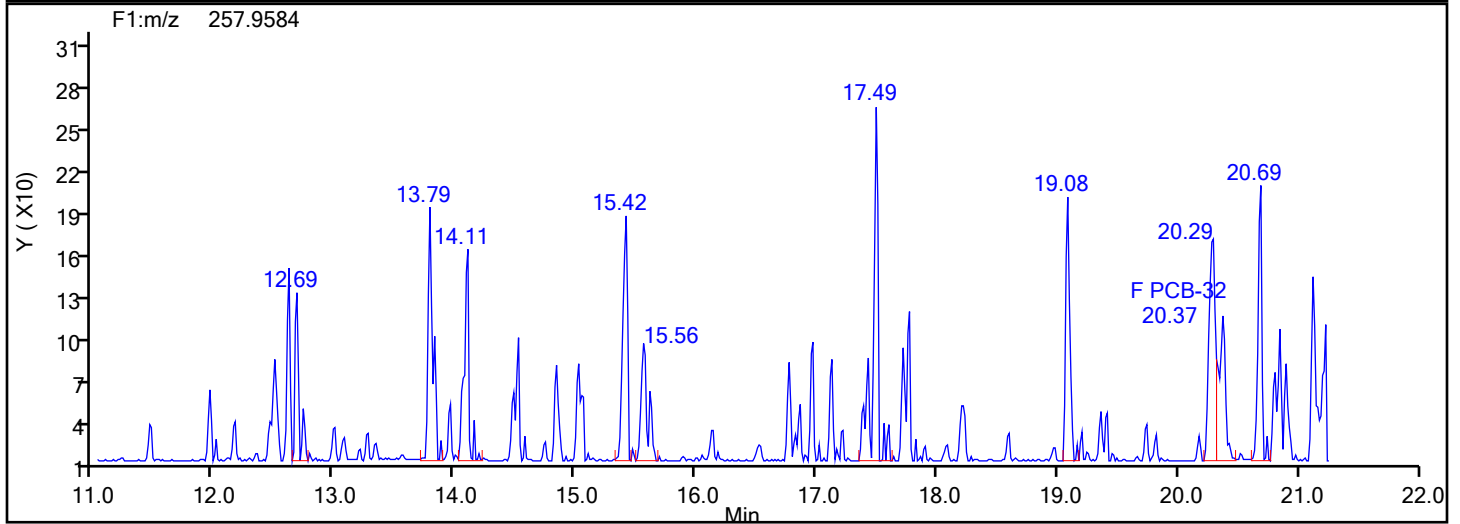
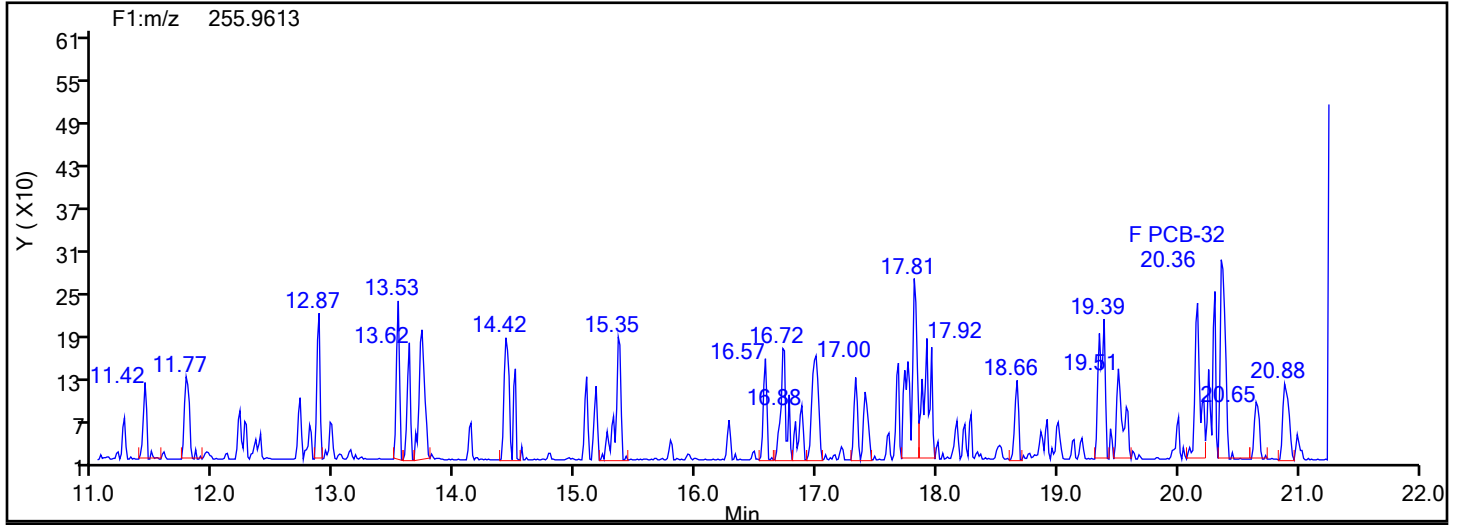


TriPCB F1 Standards

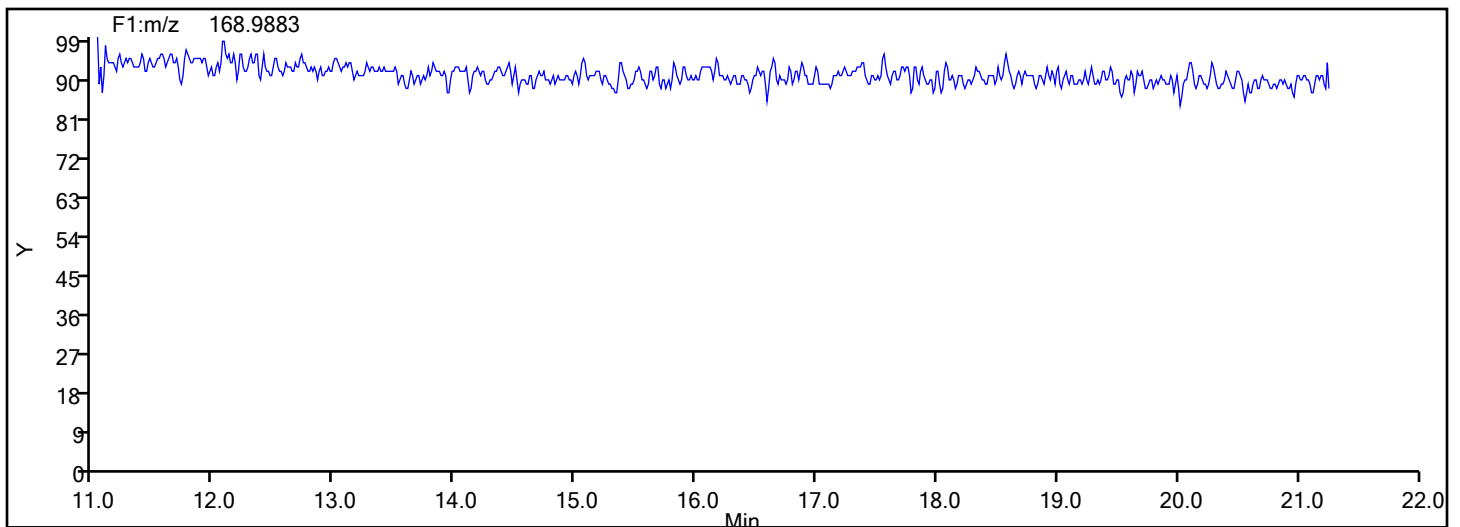


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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1

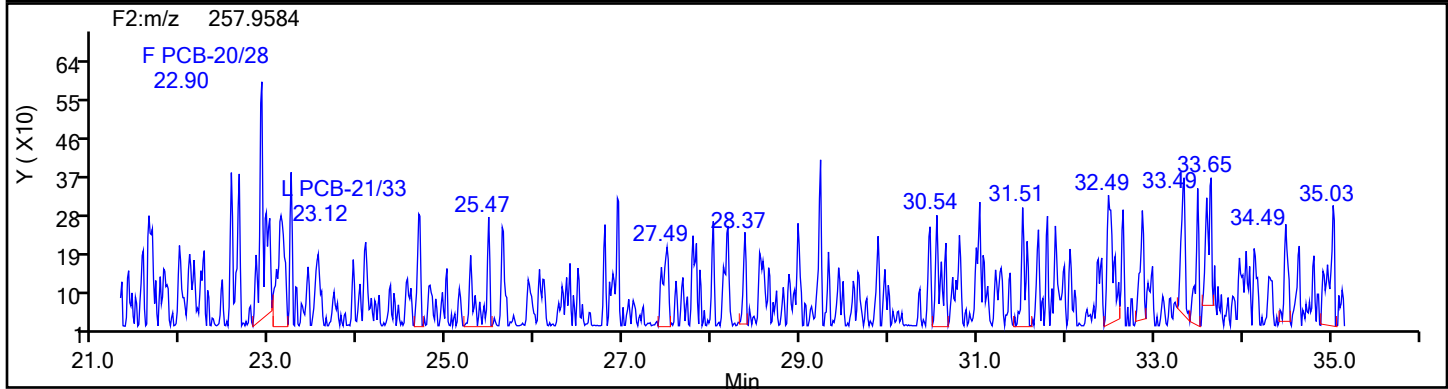
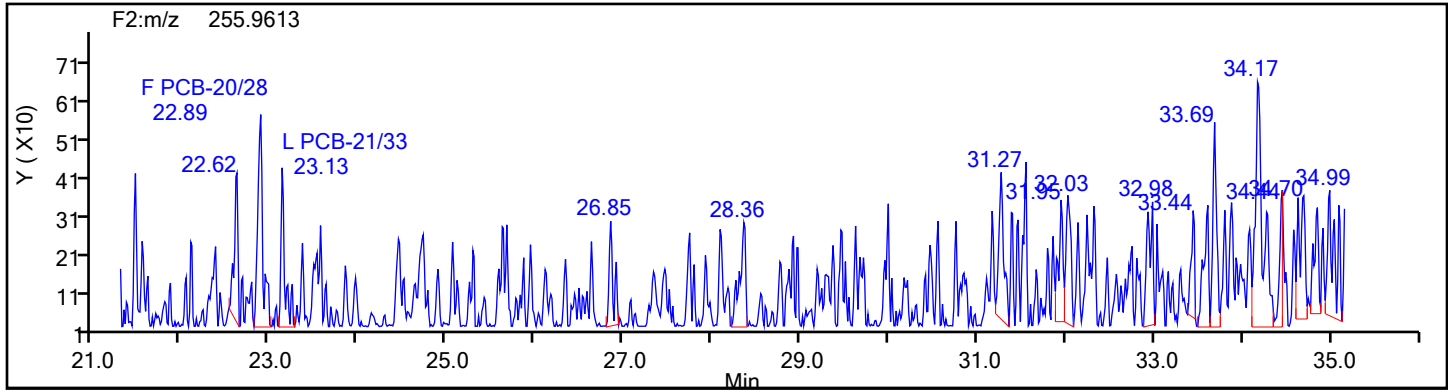


TriPCB F1 Lock Mass

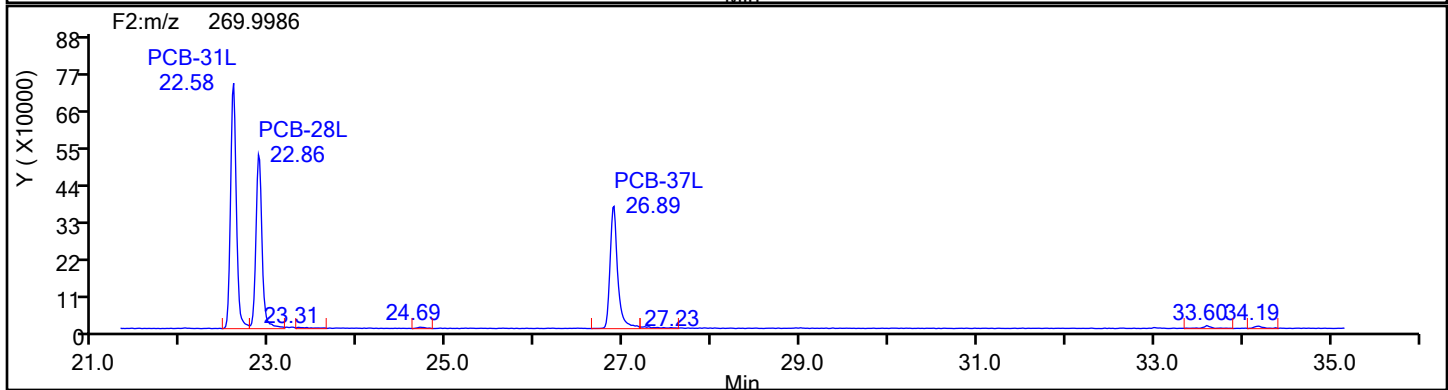
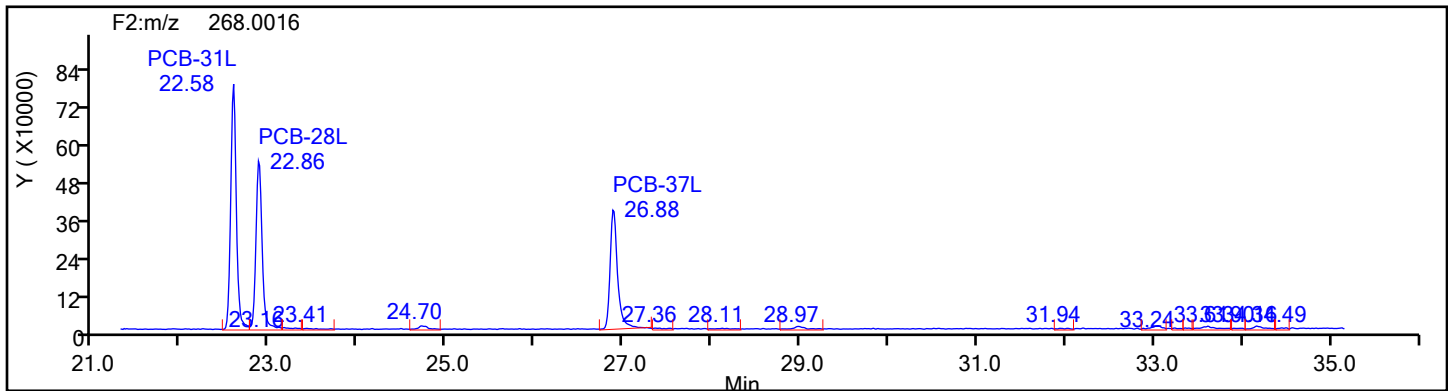


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F2

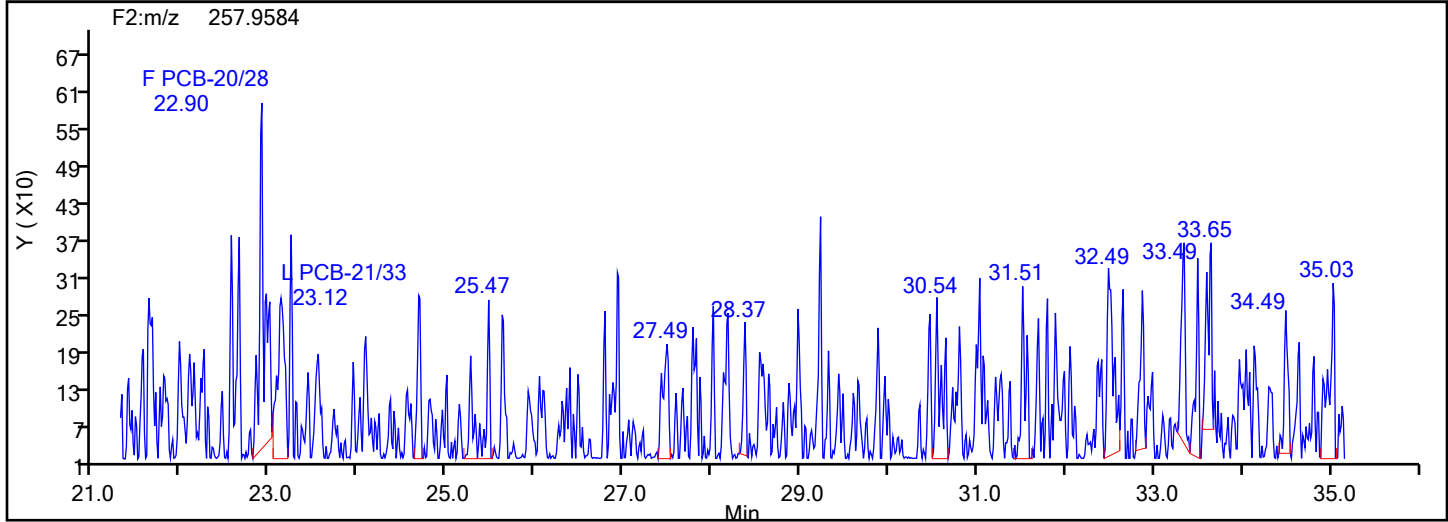
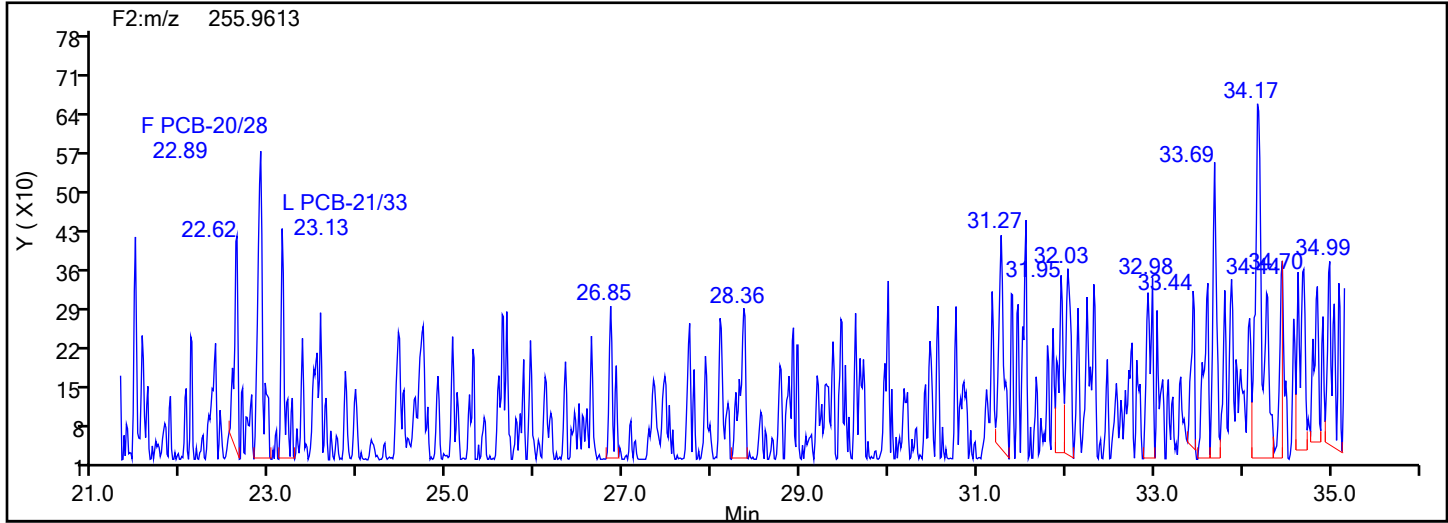


TriPCB F2 Standards

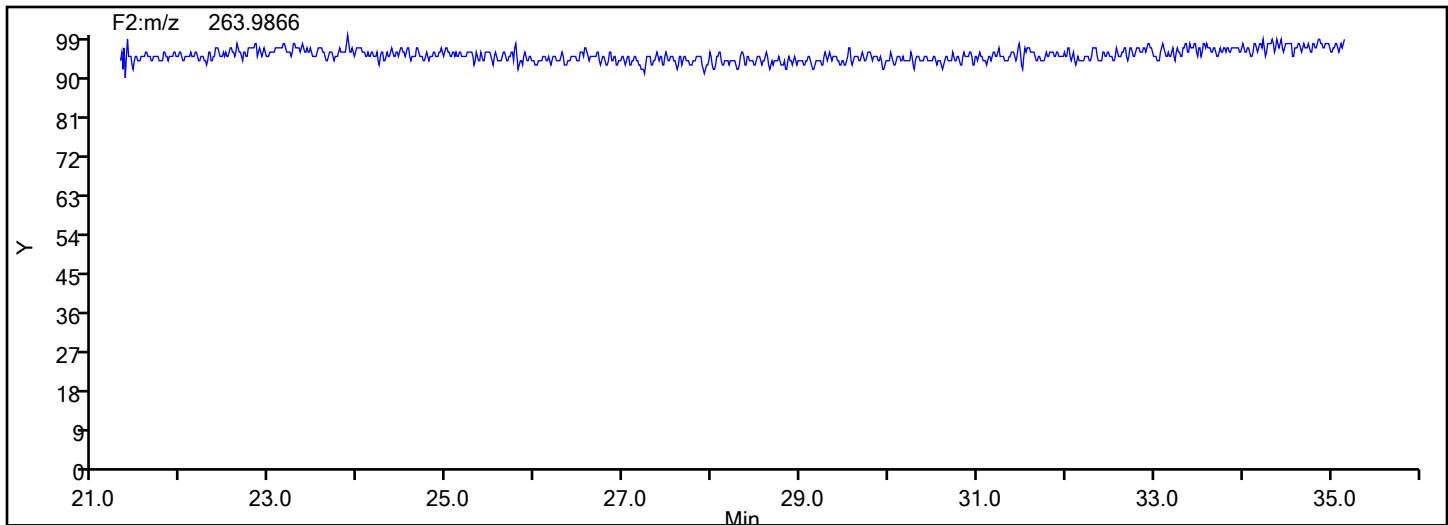


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Worklist#: 88780 Sample Line#: 6
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TriPCB F2

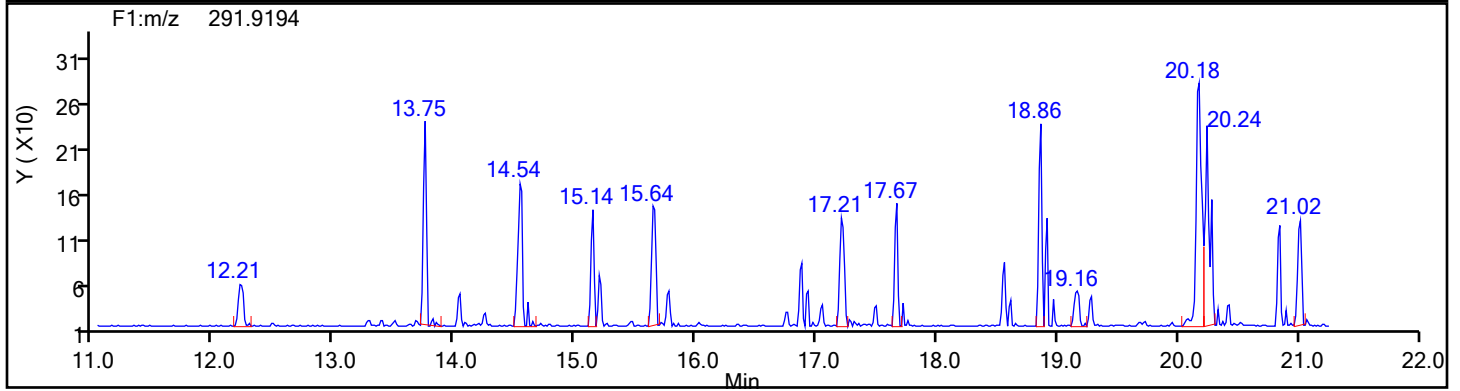
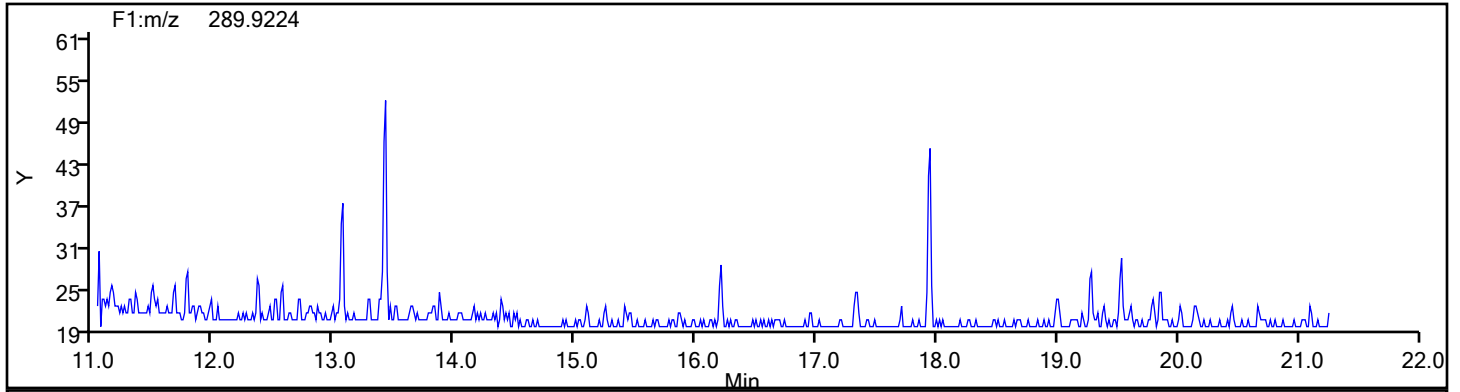


TriPCB F2 Lock Mass

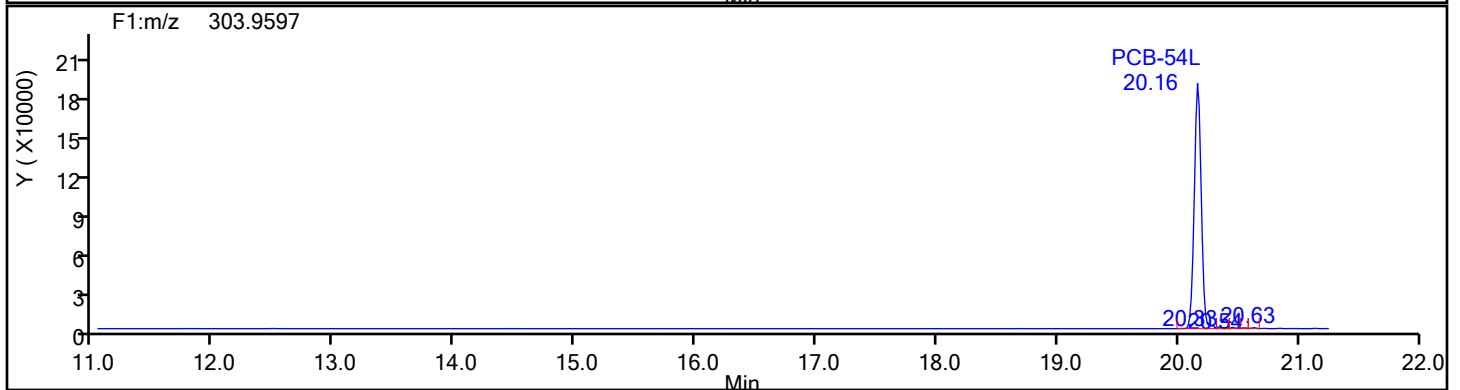
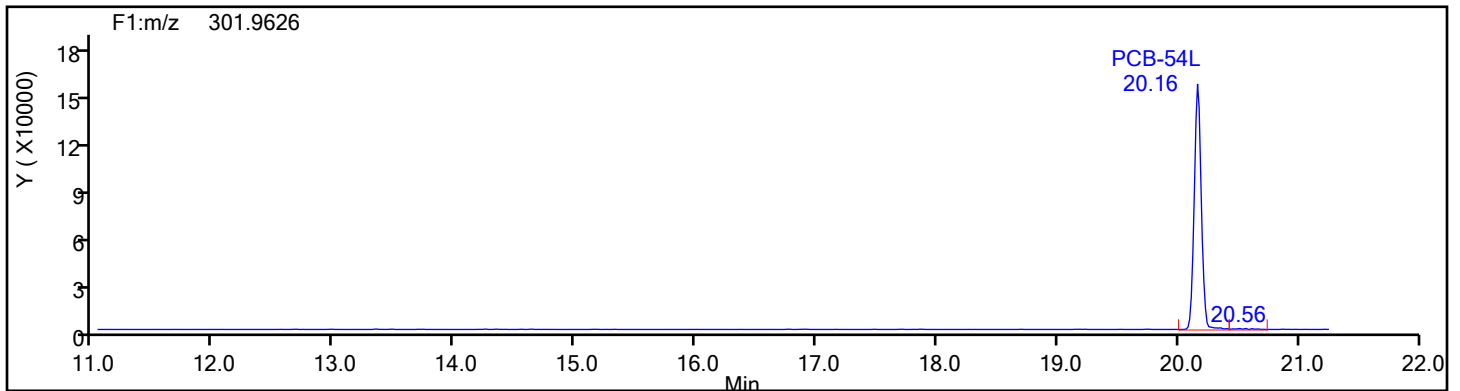


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TePCB F1

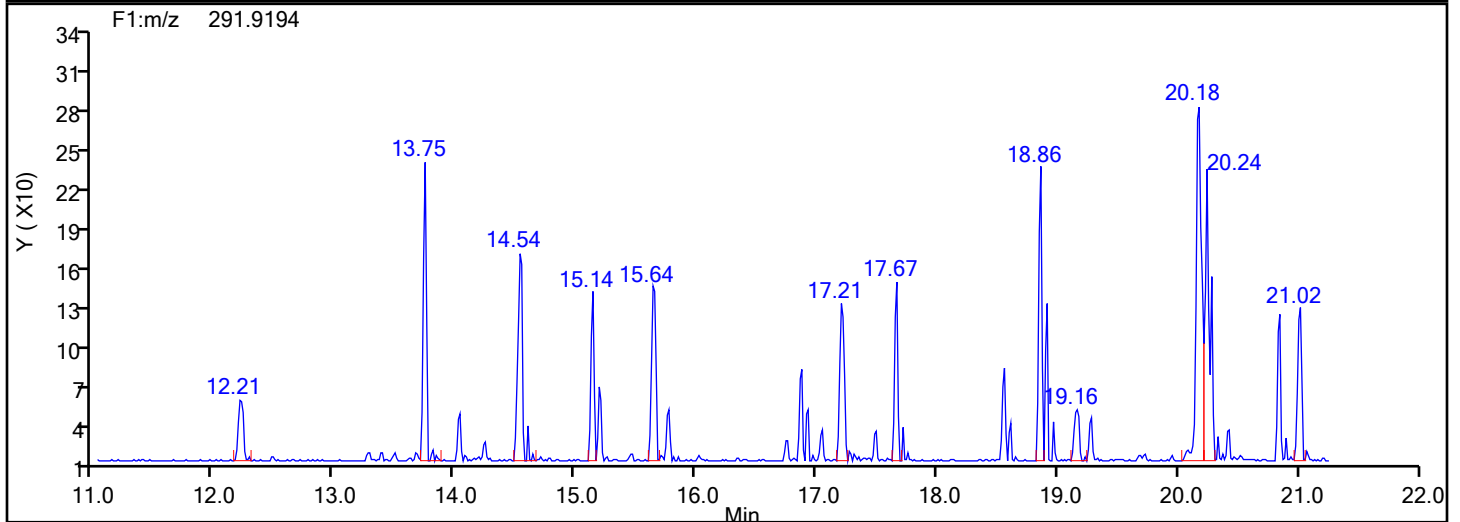
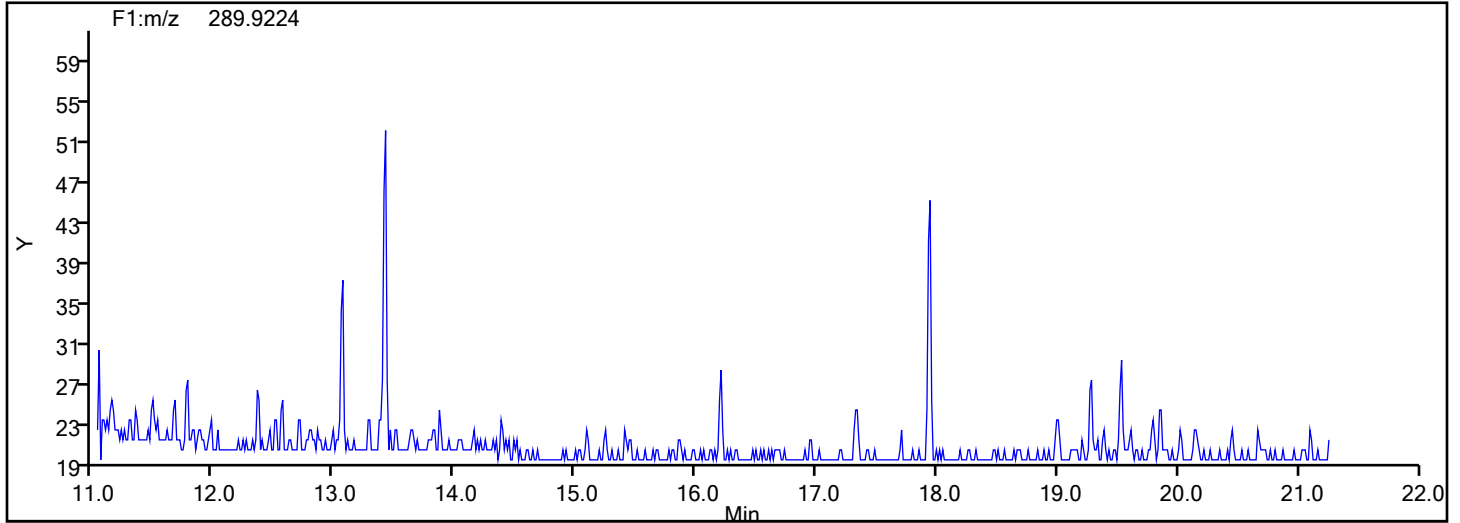


TePCB F1 Standards

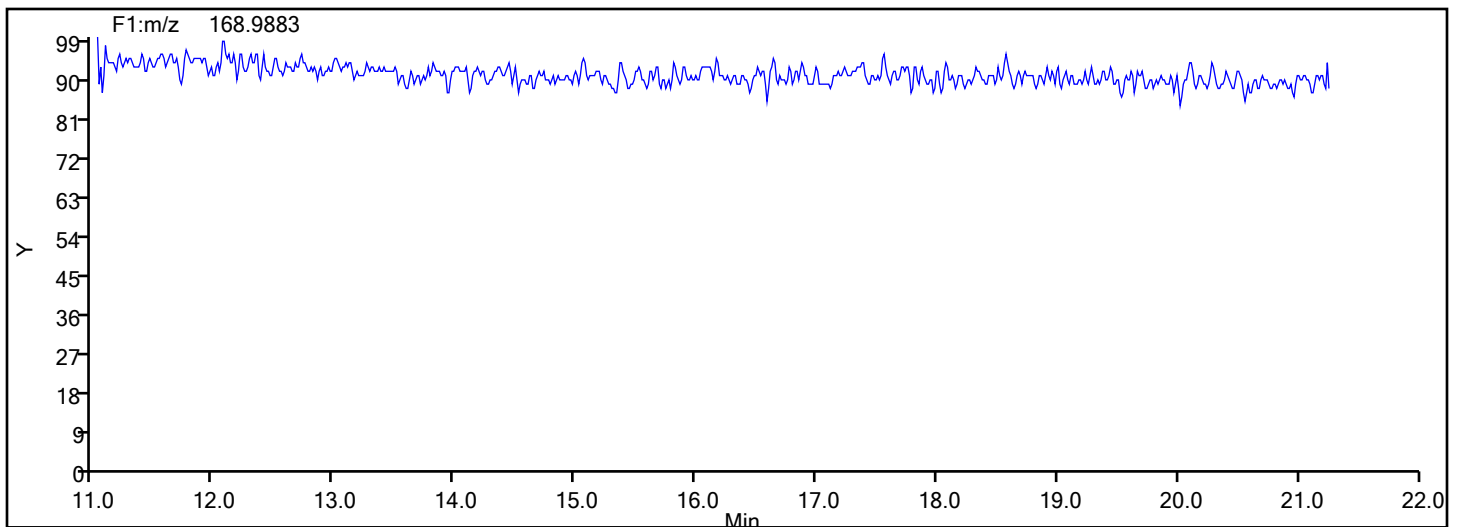


Eurofins Knoxville

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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1

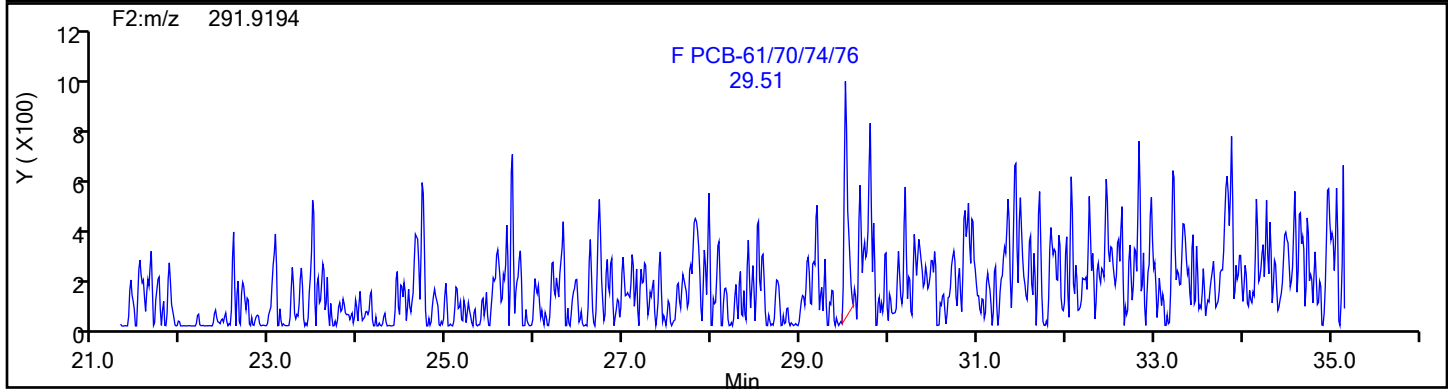
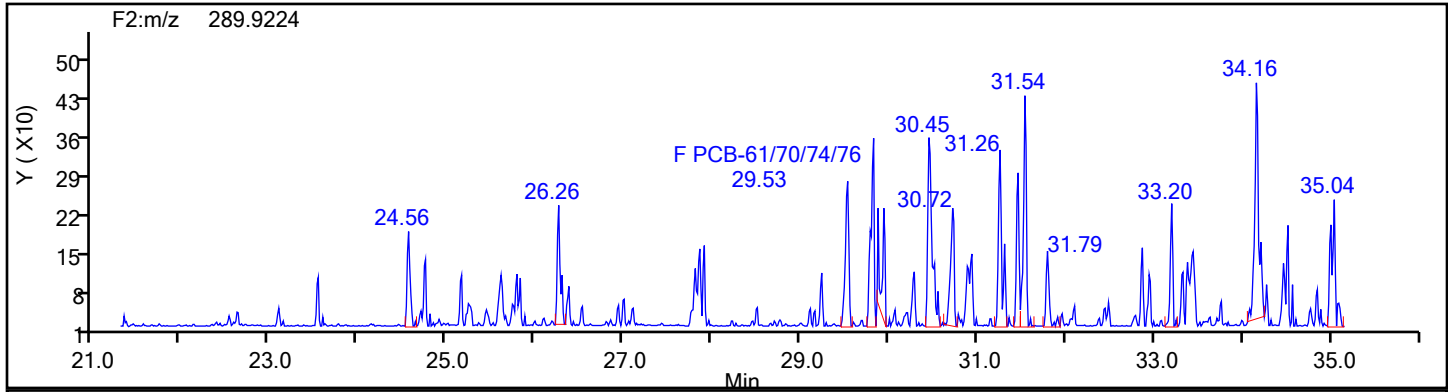


TePCB F1 Lock Mass

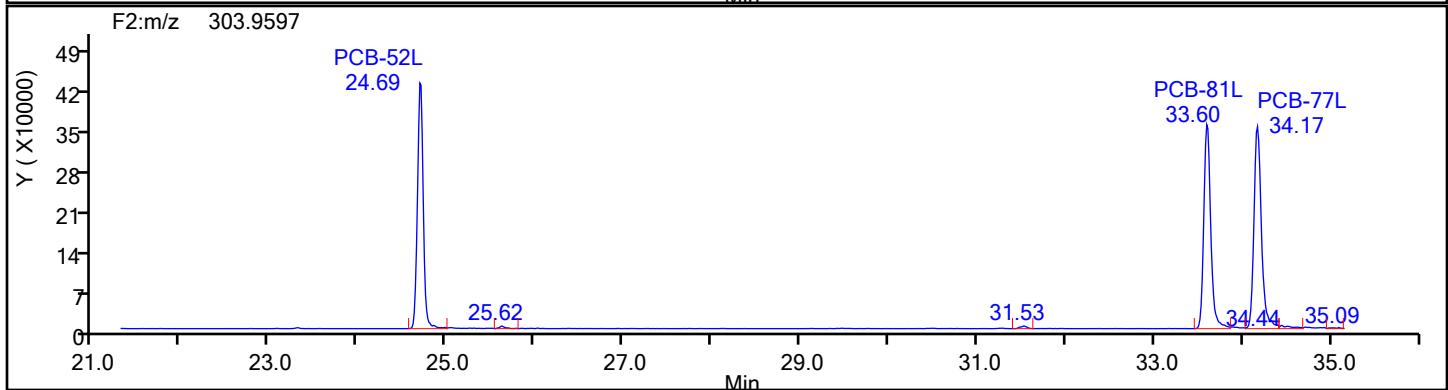
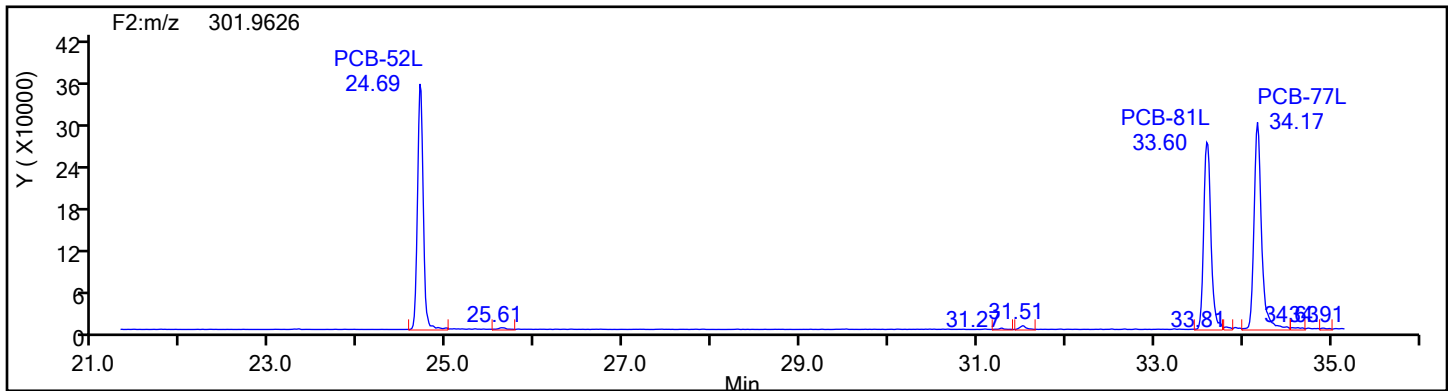


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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

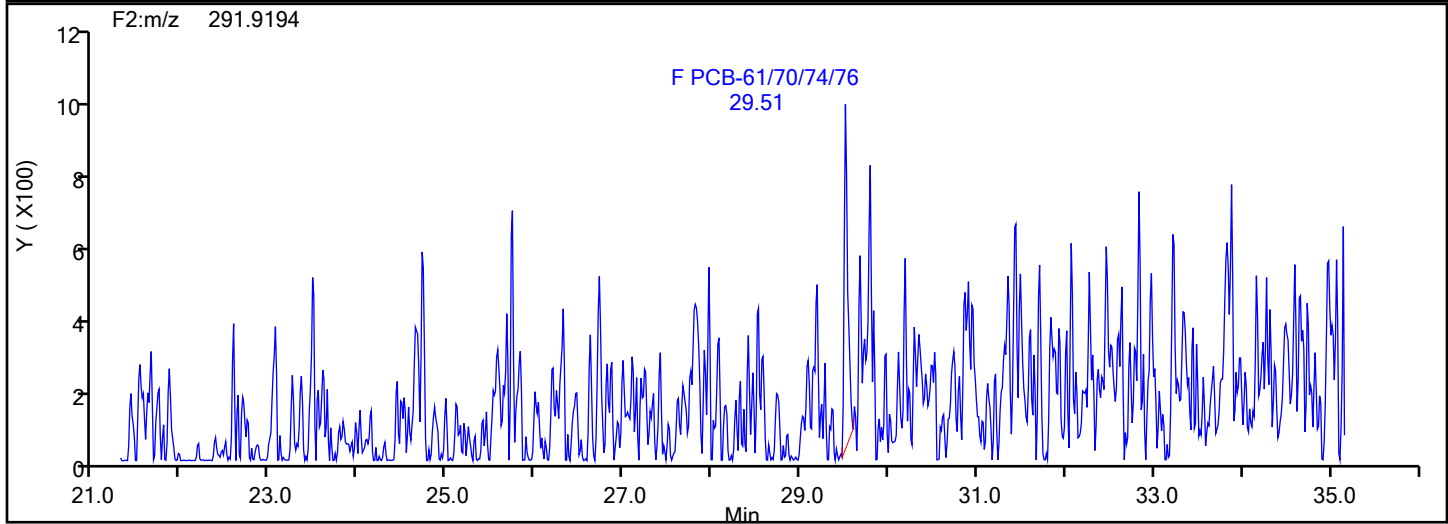
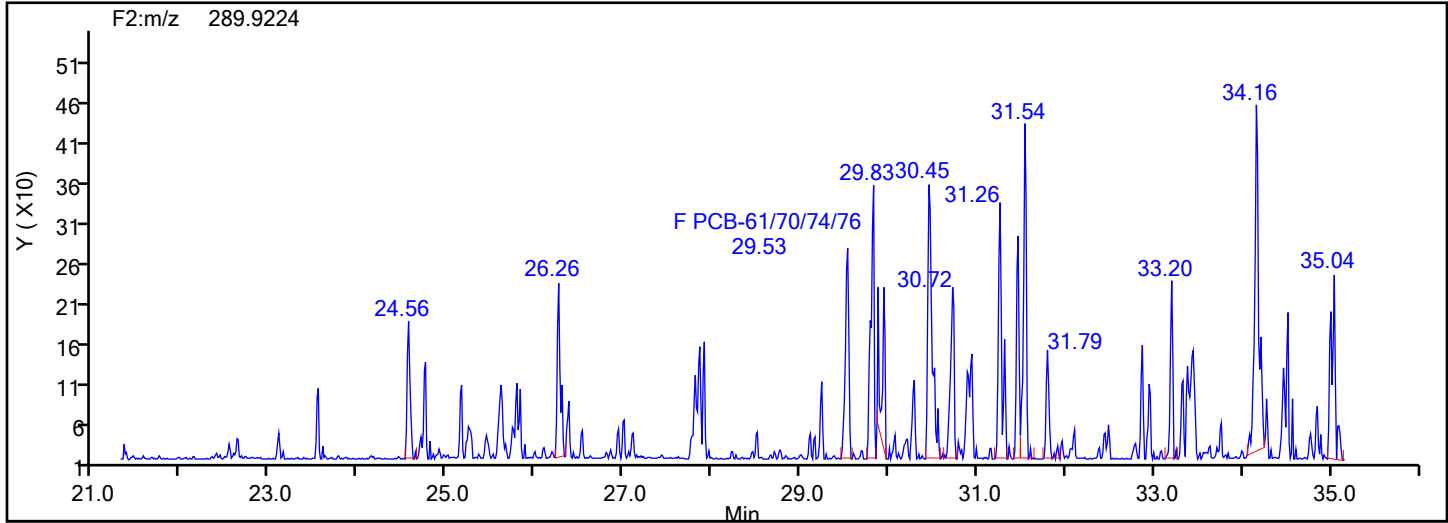


TePCB F2 Standards

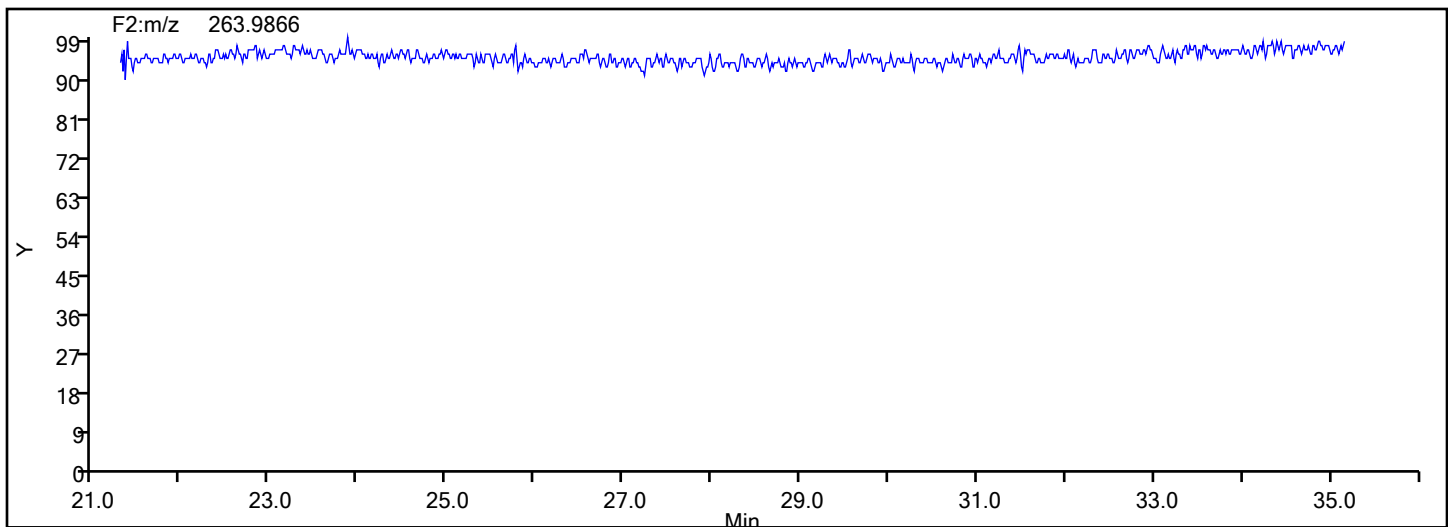


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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F2

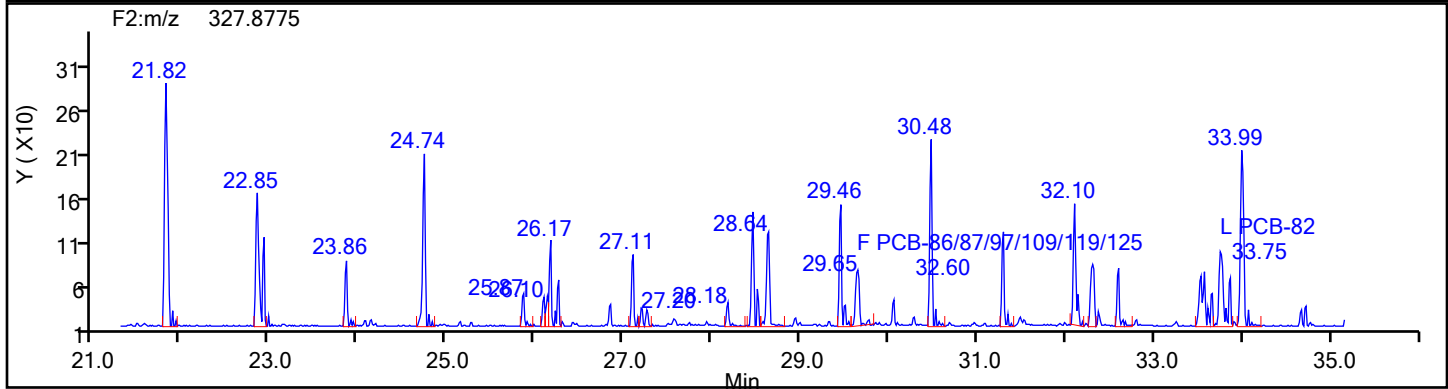
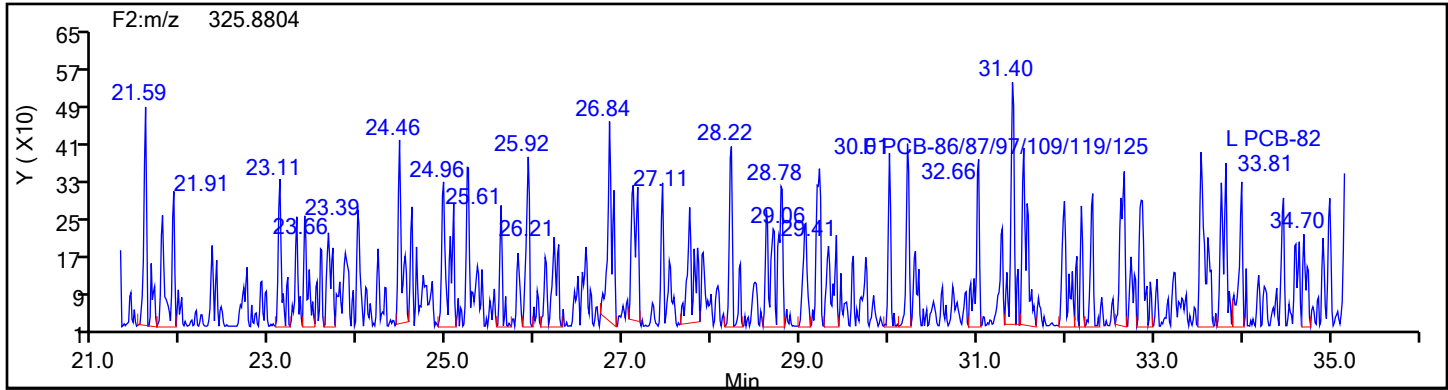


TePCB F2 Lock Mass

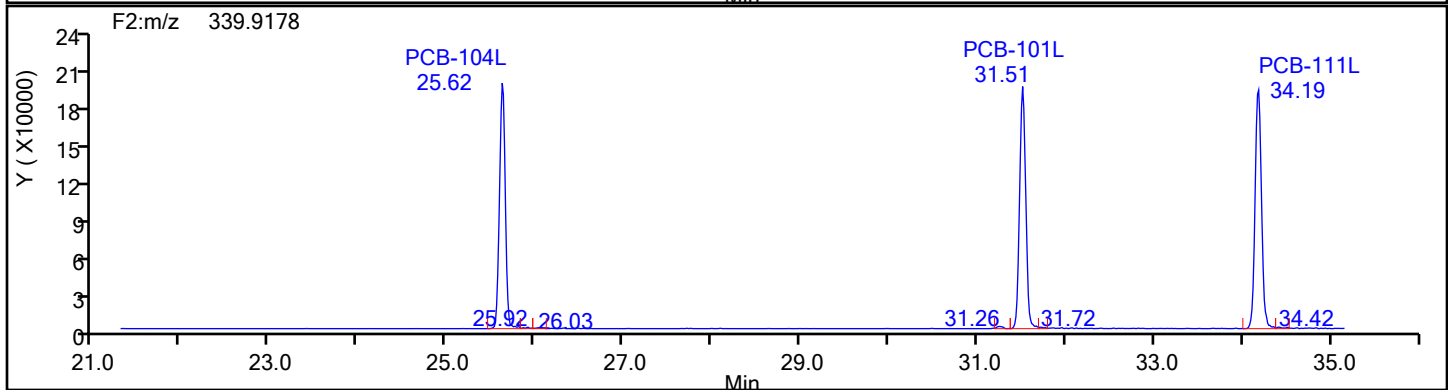
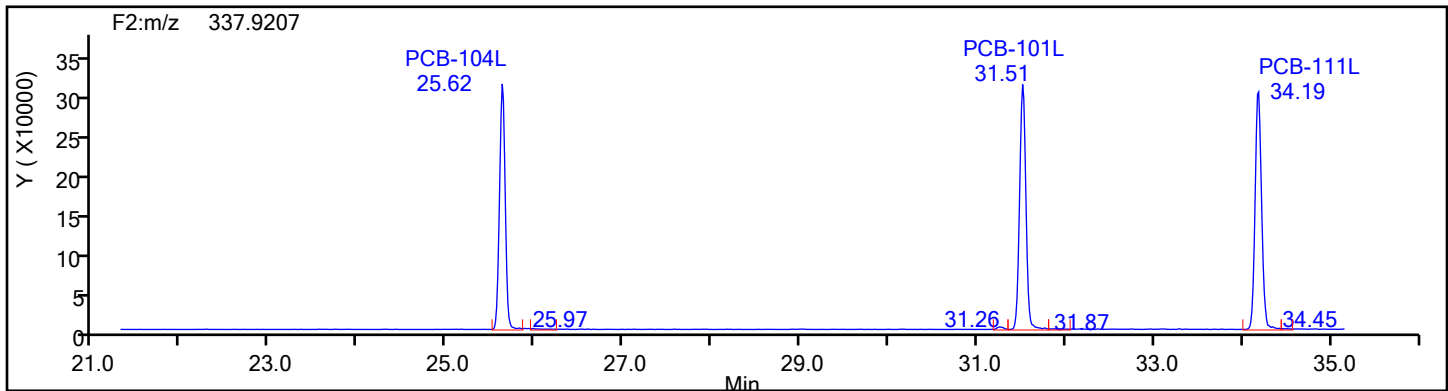


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

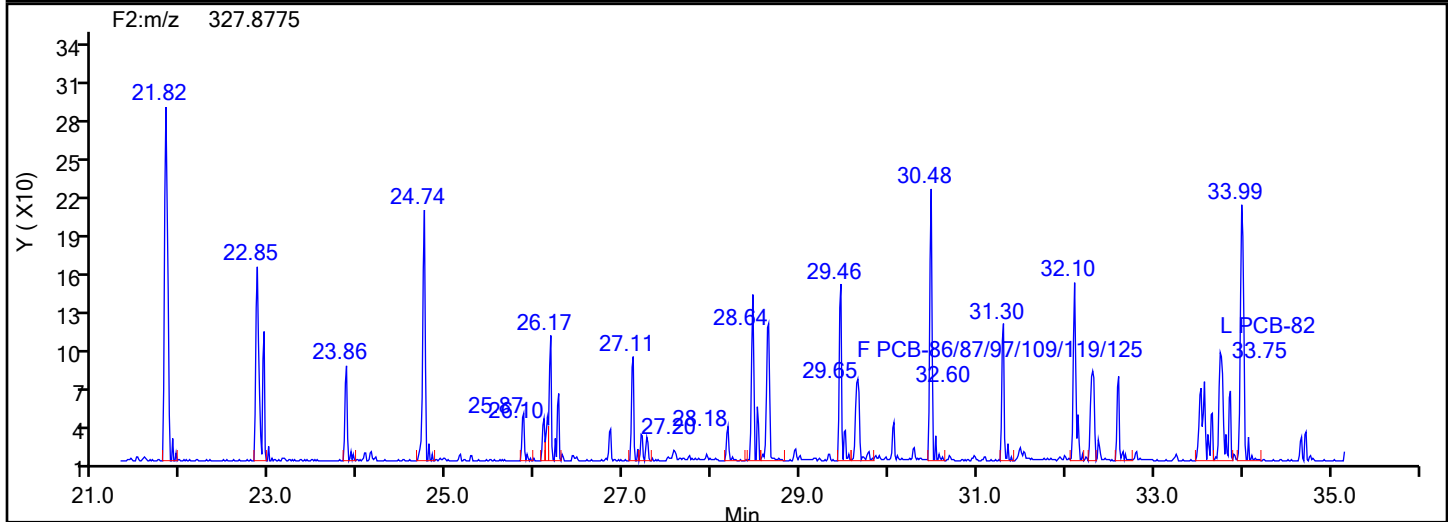
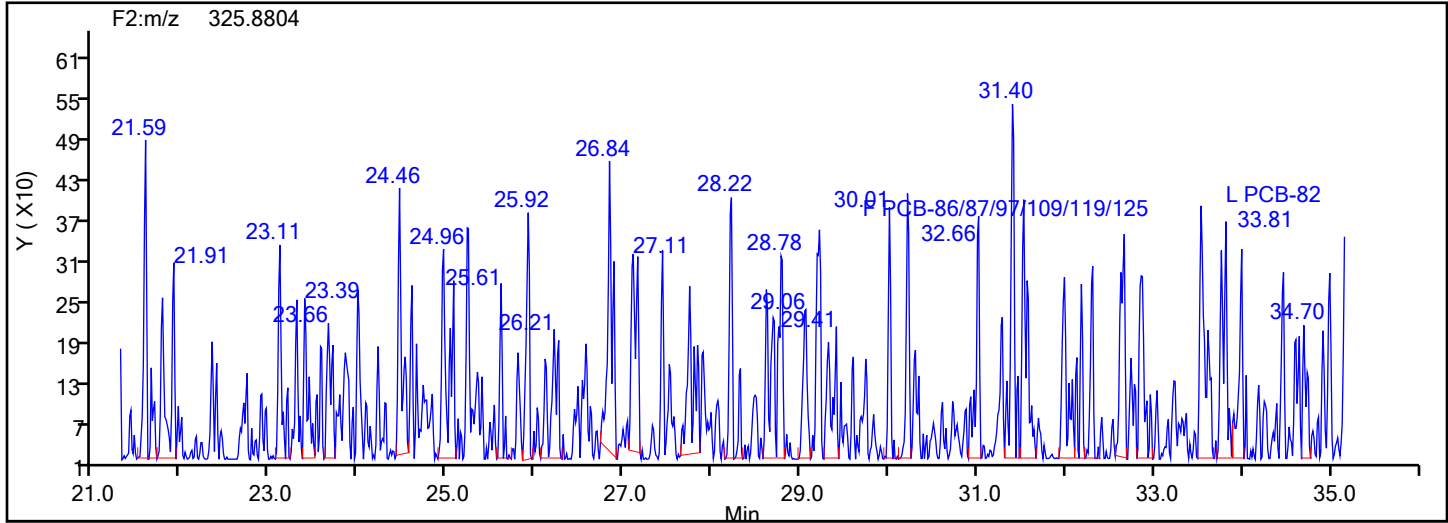


PePCB F2 Standards

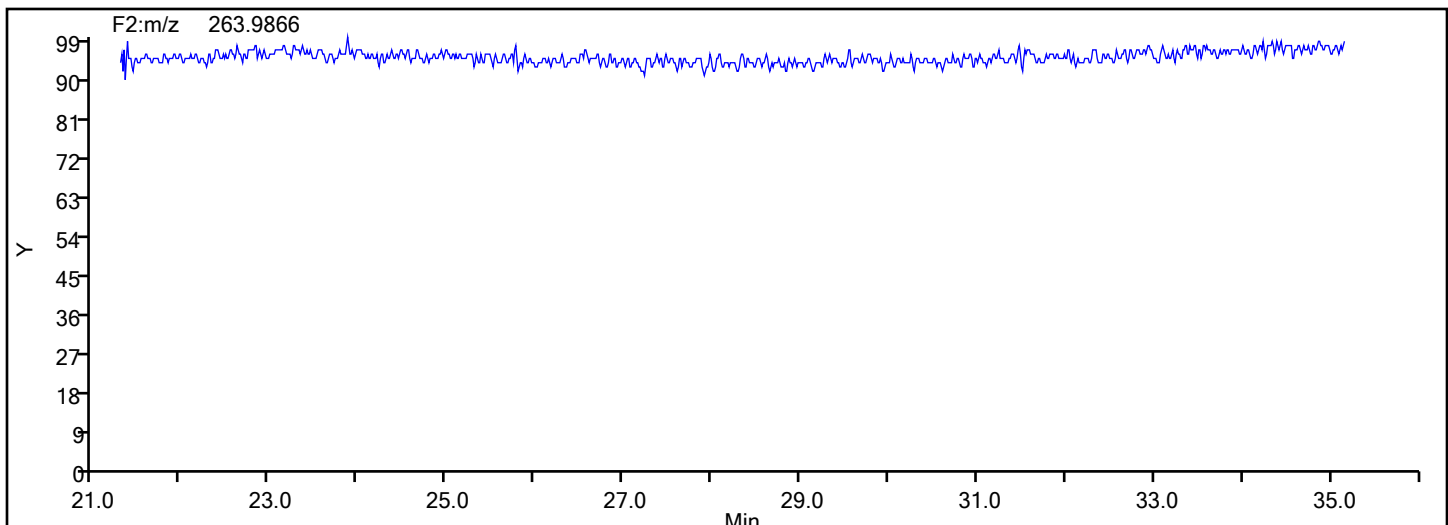


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Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2

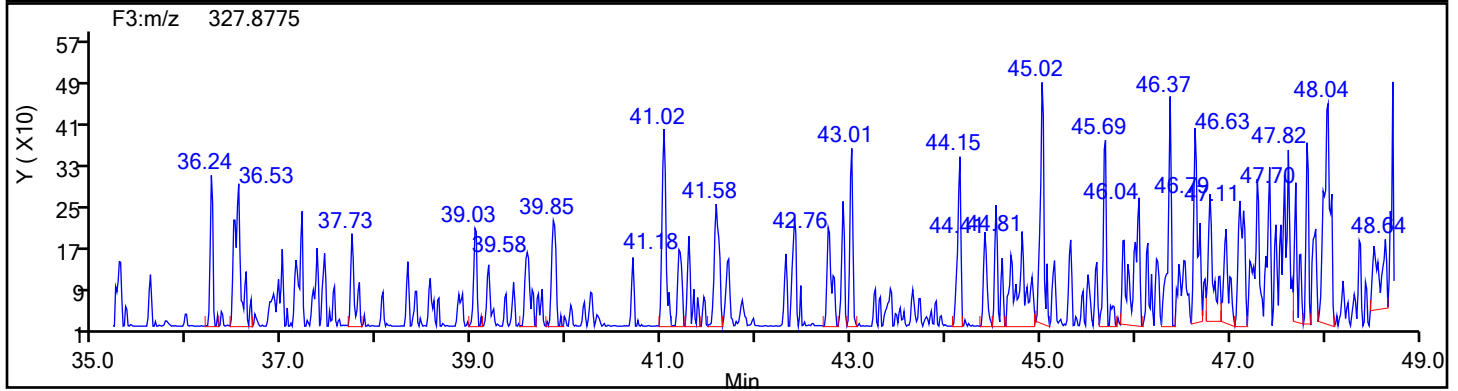
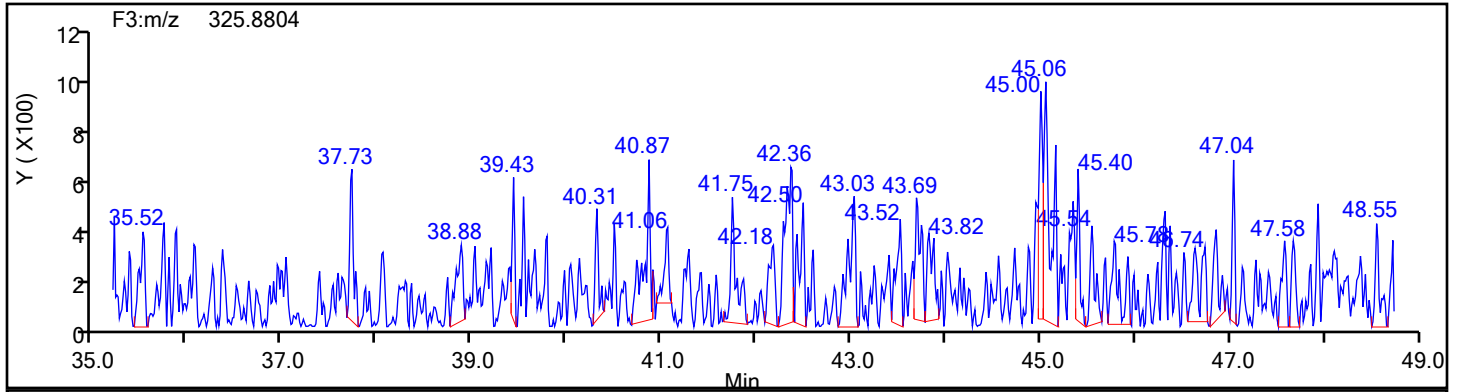


PePCB F2 Lock Mass

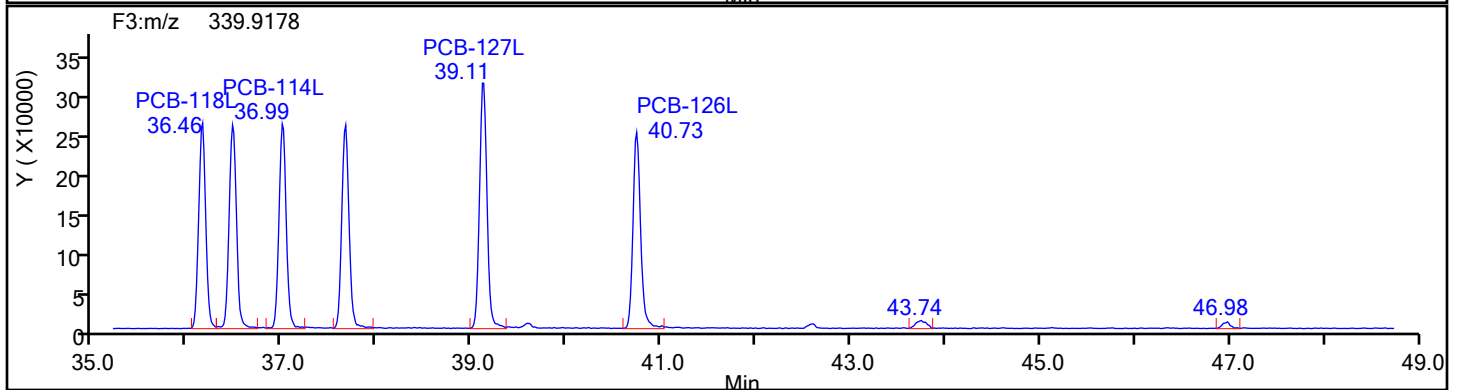
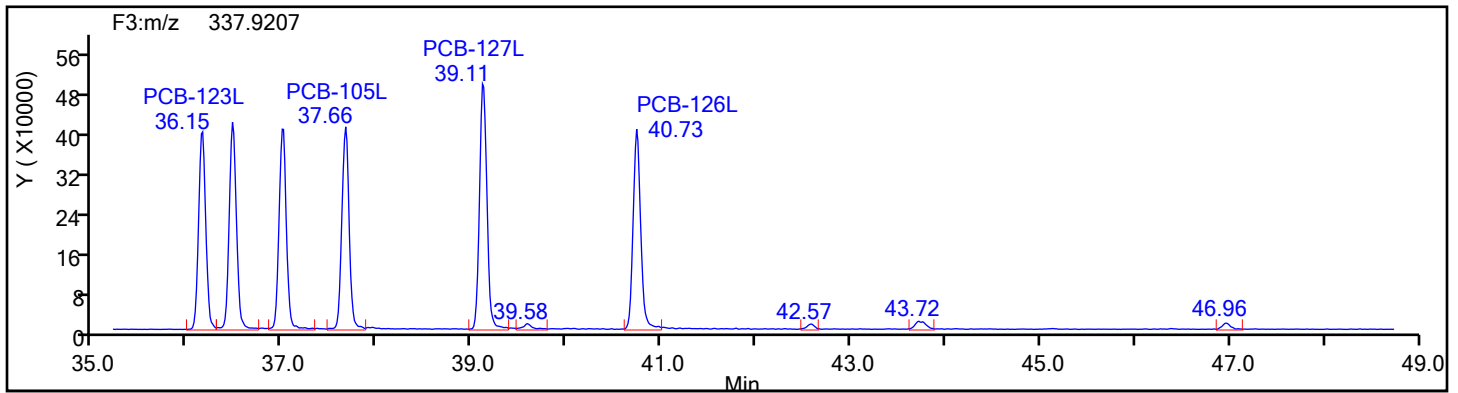


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

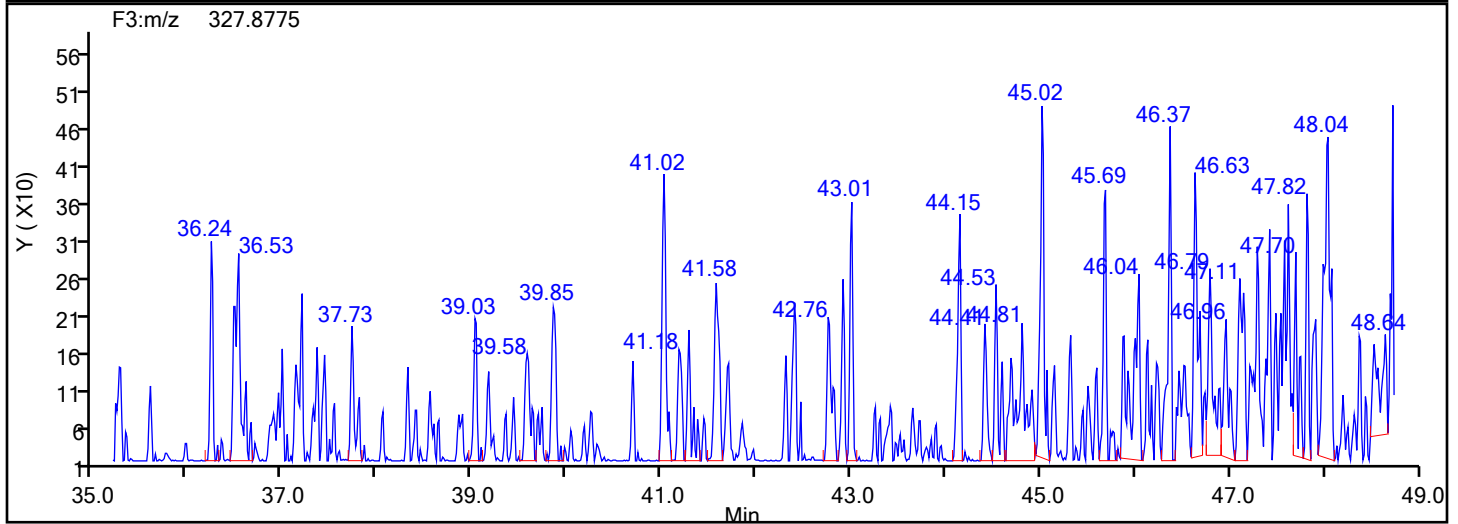
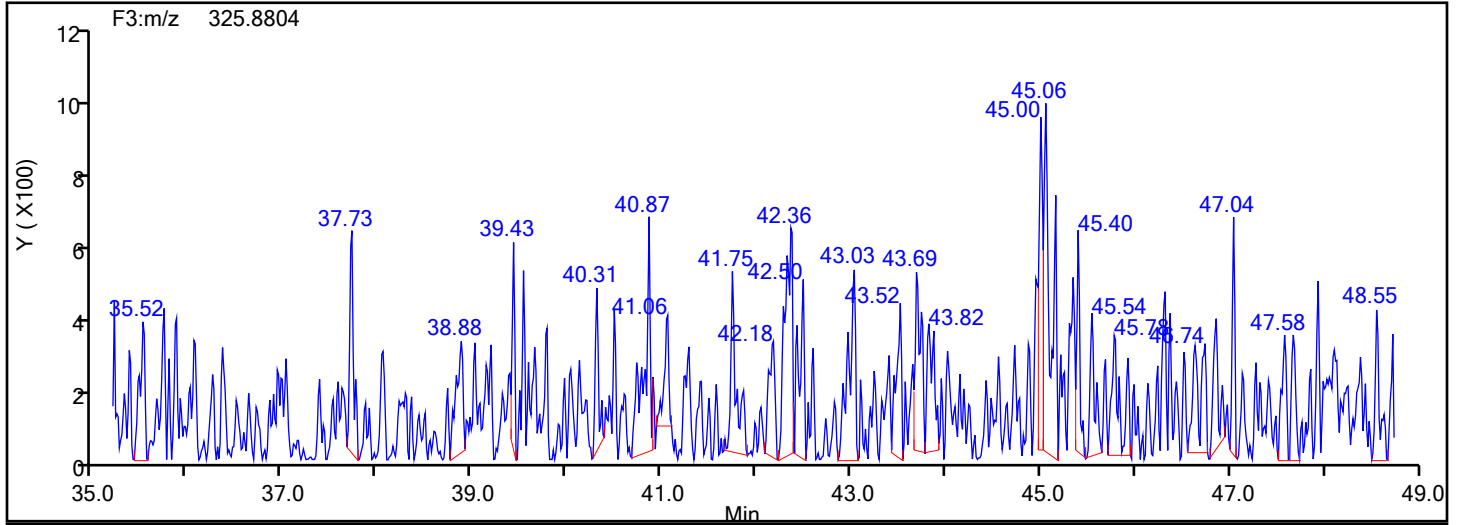


PePCB F3 Standards

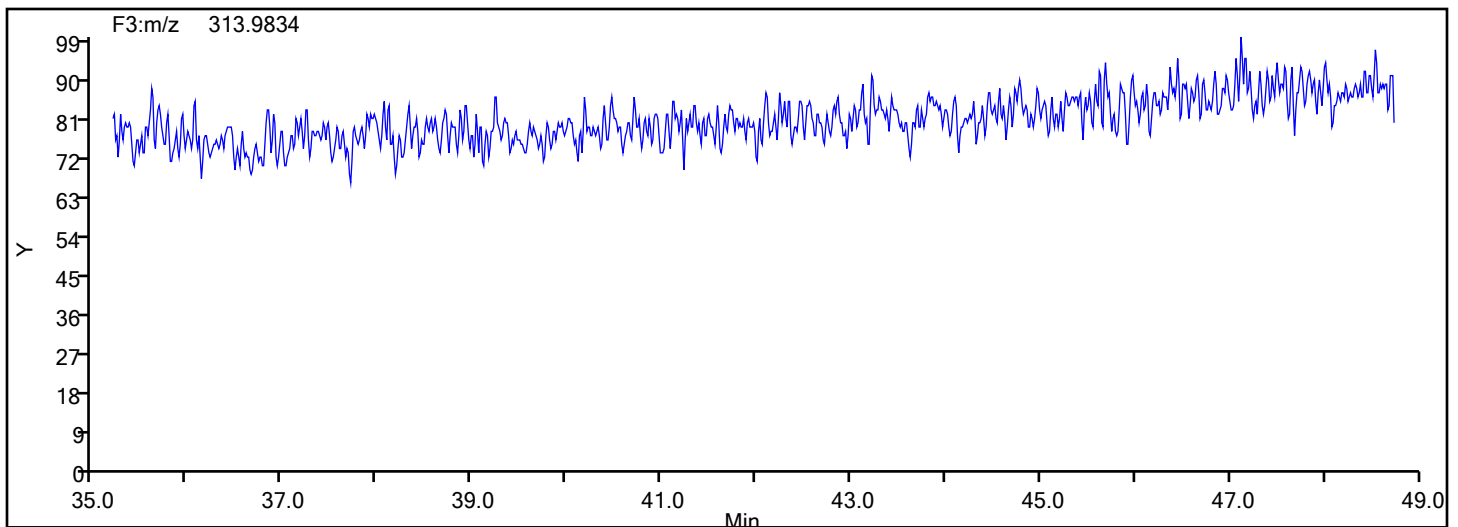


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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3

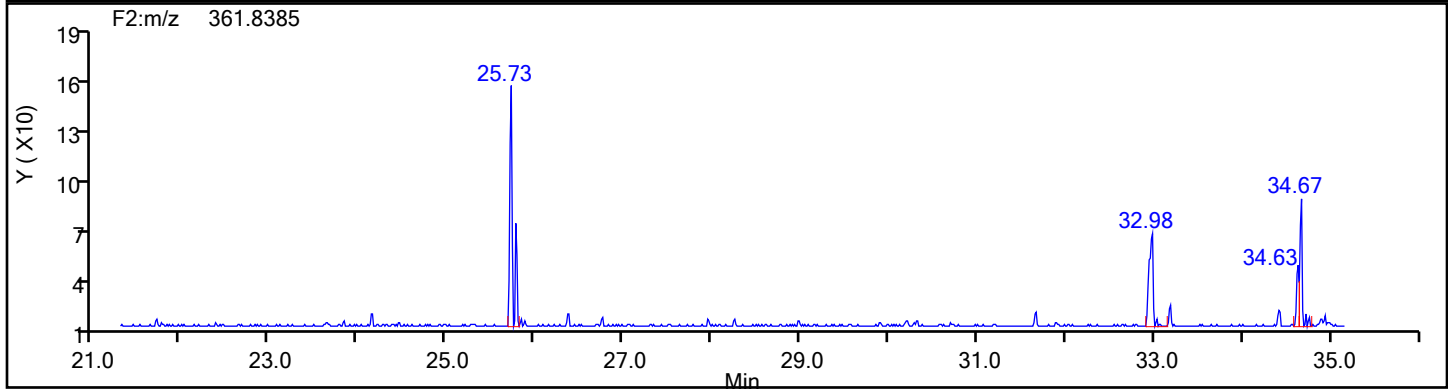
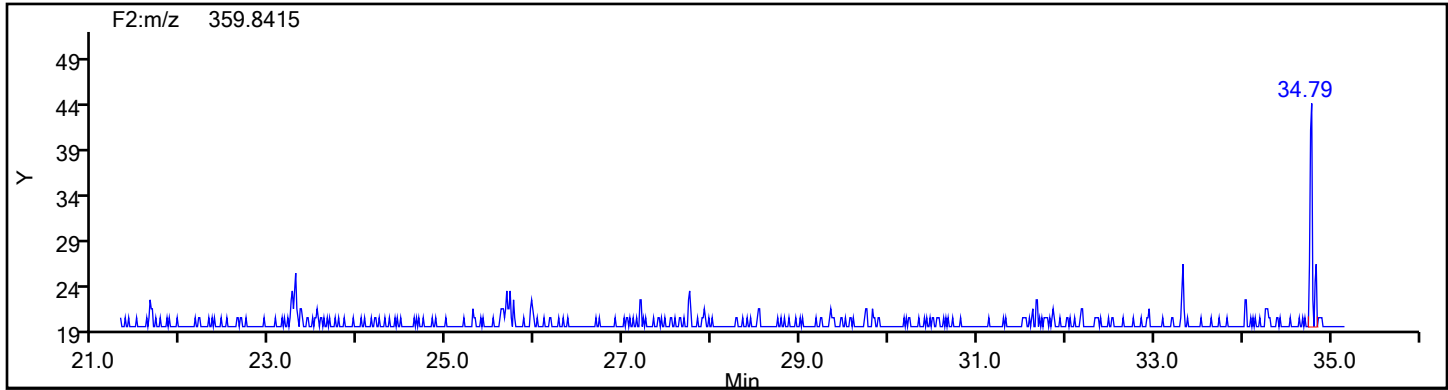


PePCB F3 Lock Mass

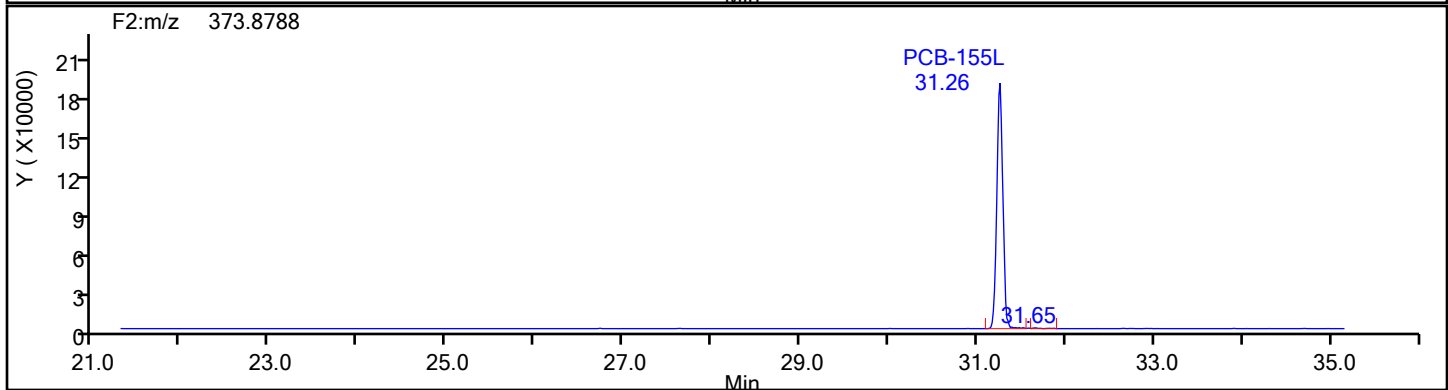
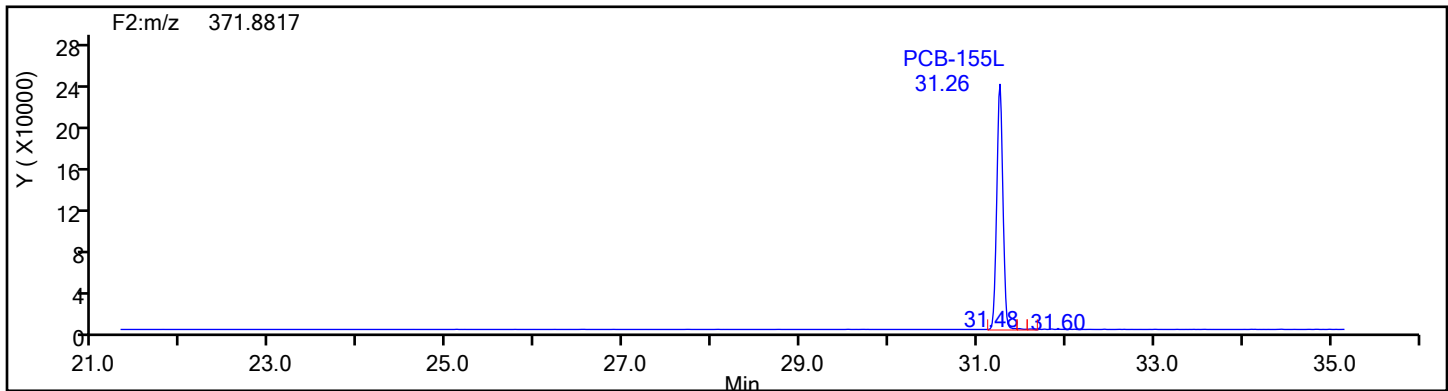


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

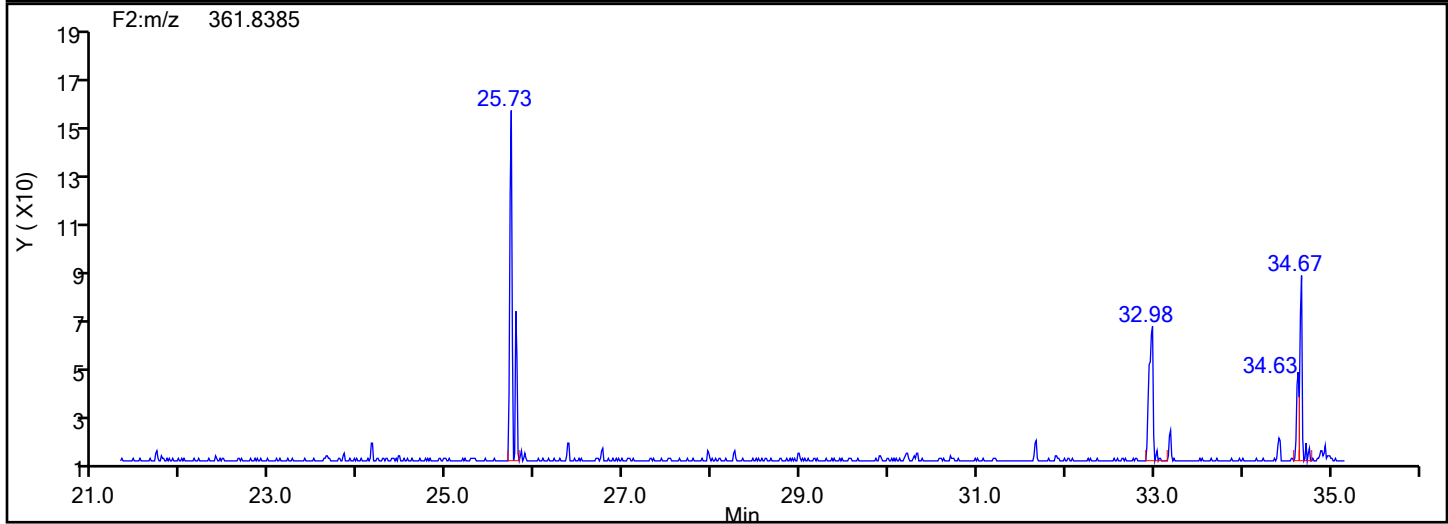
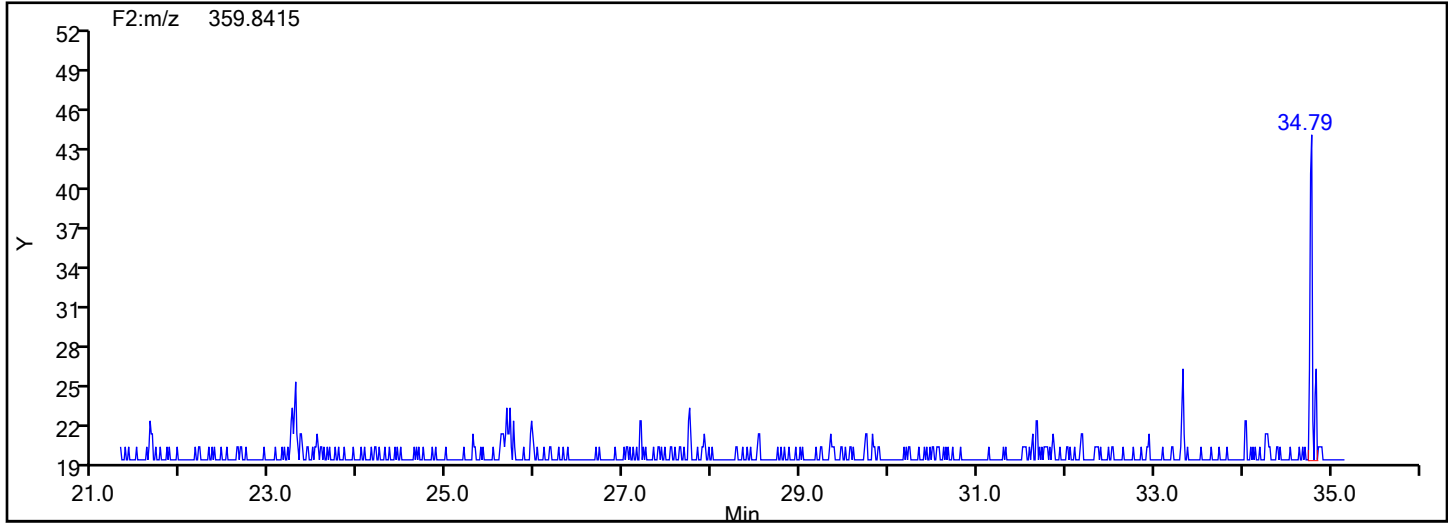


HxPCB F2 Standards

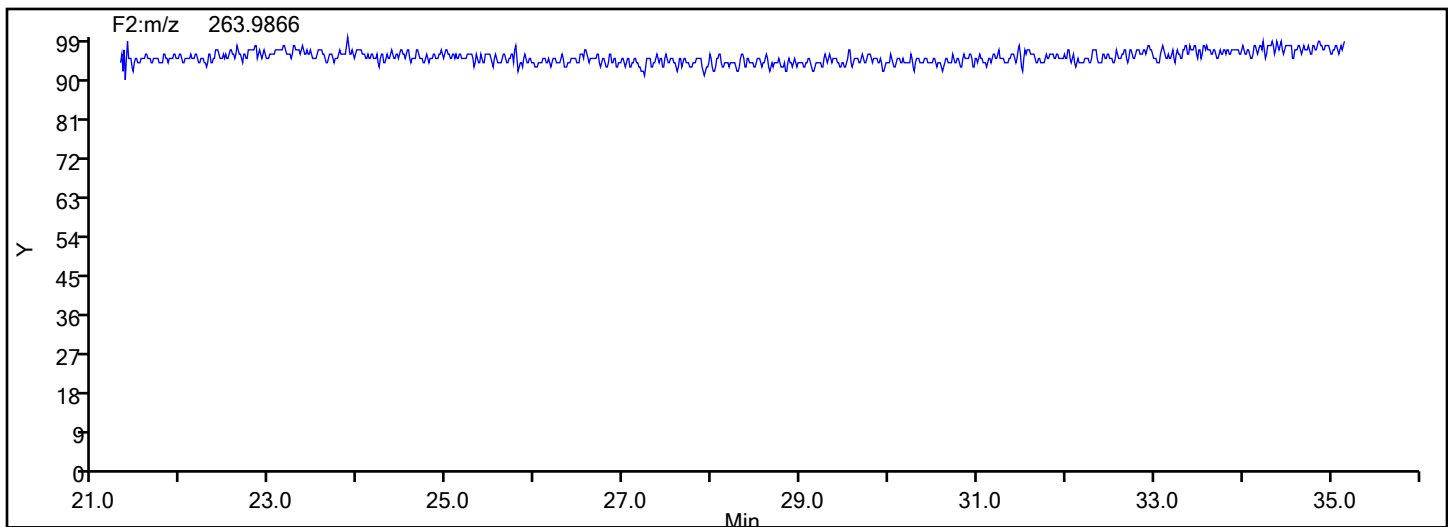


Eurofins Knoxville

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Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

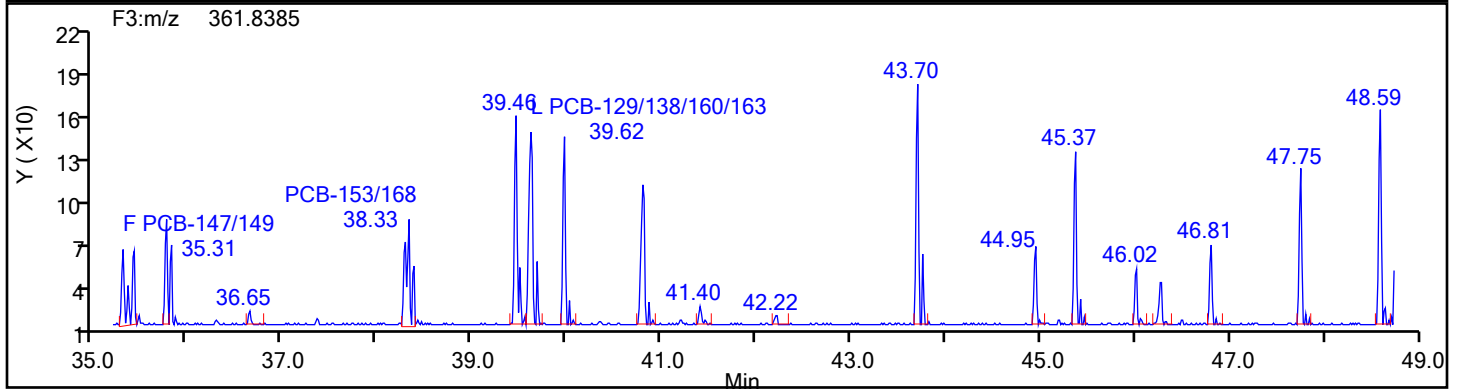
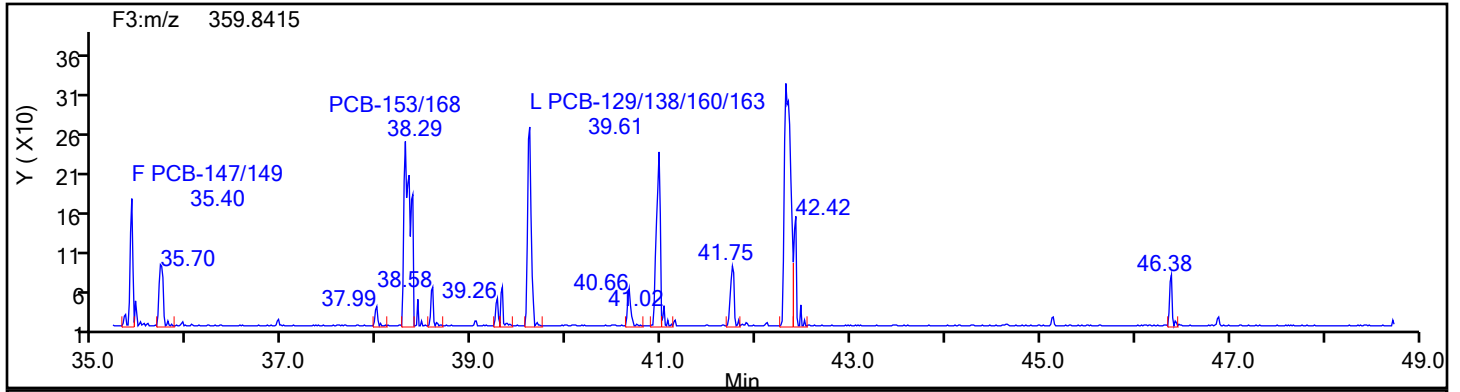


HxPCB F2 Lock Mass

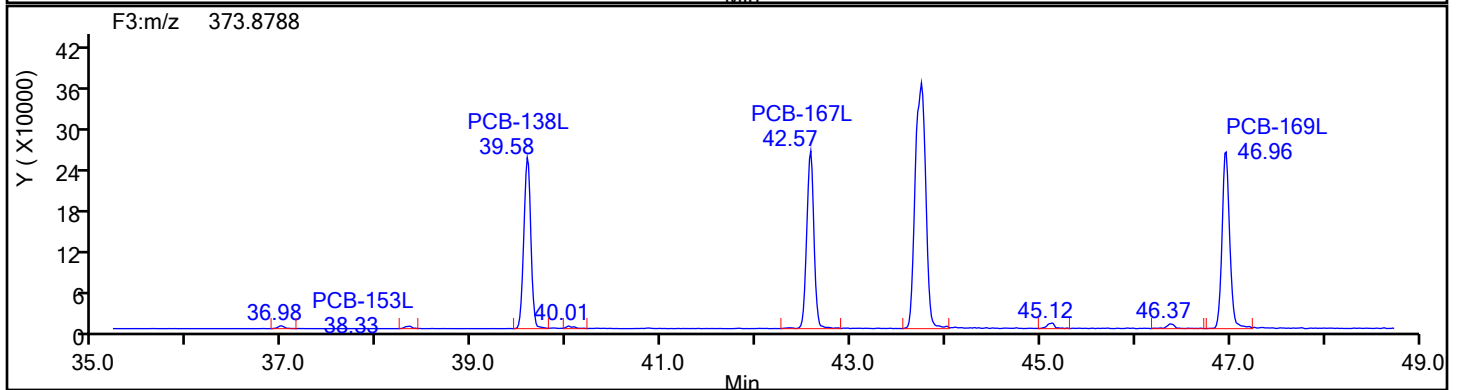
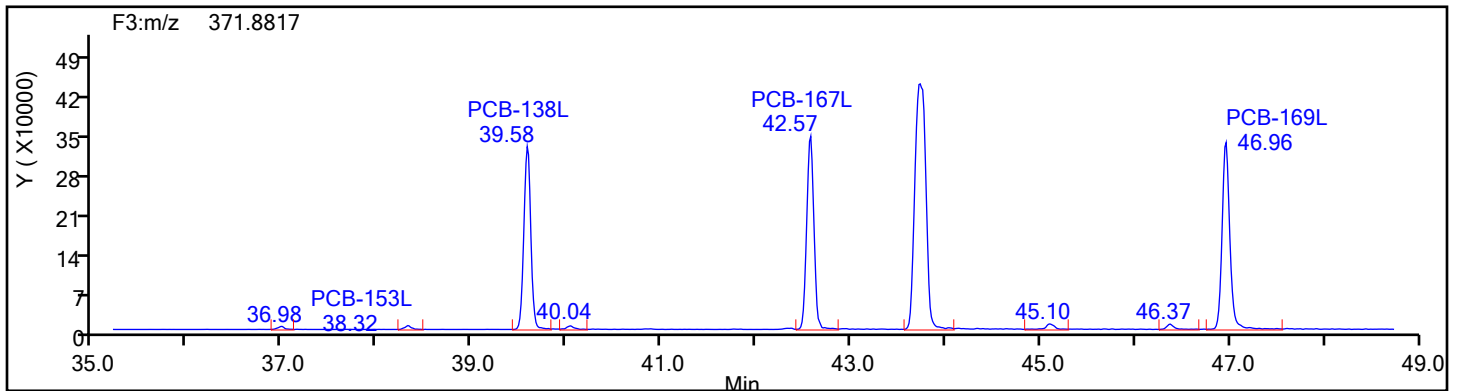


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
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Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3

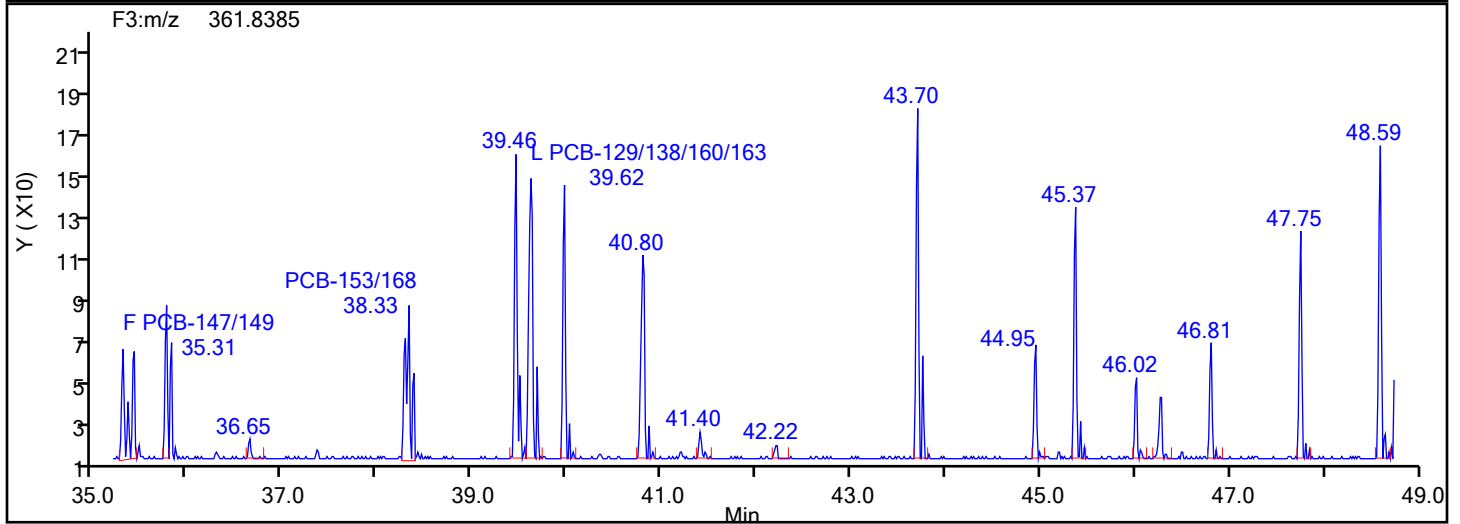
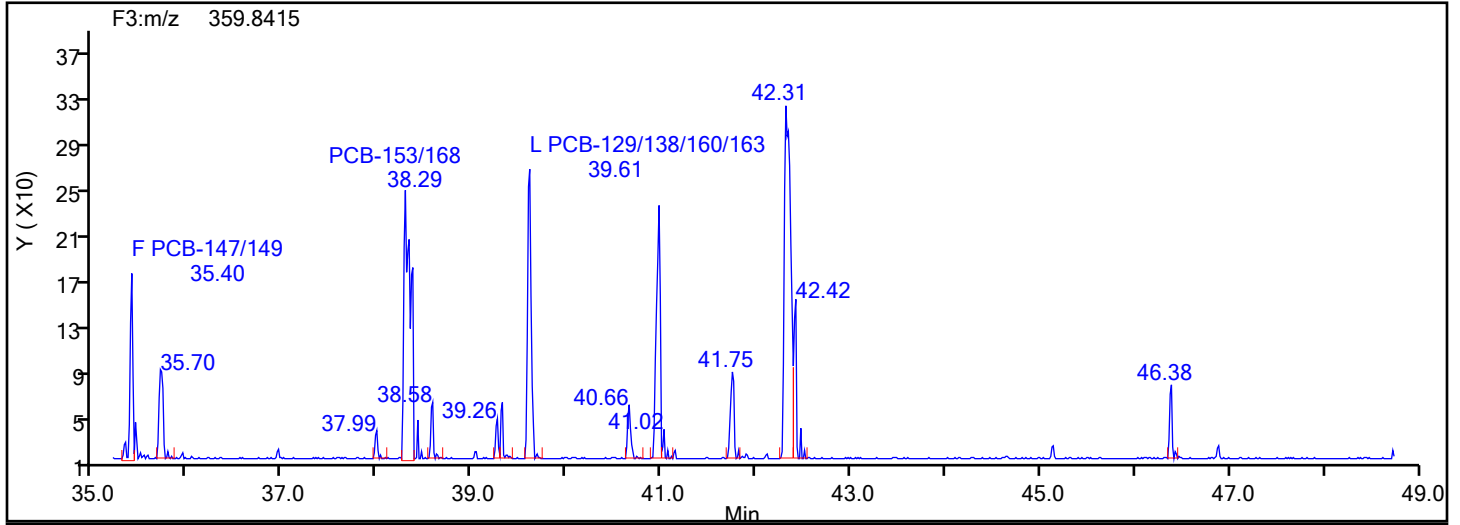


HxPCB F3 Standards

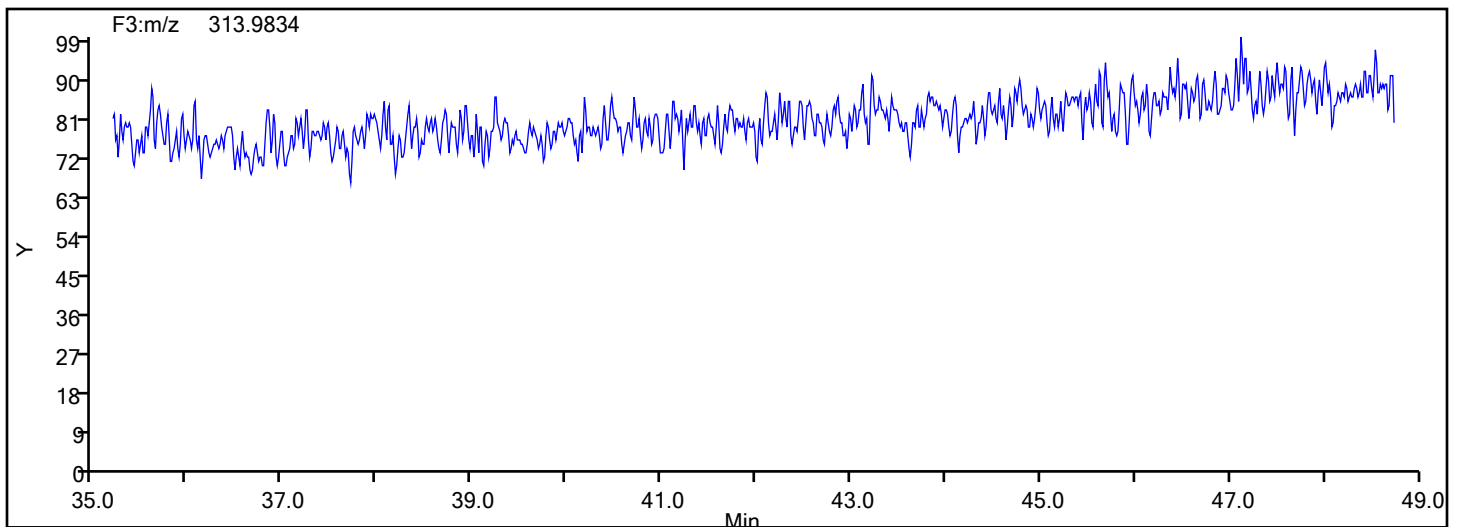


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

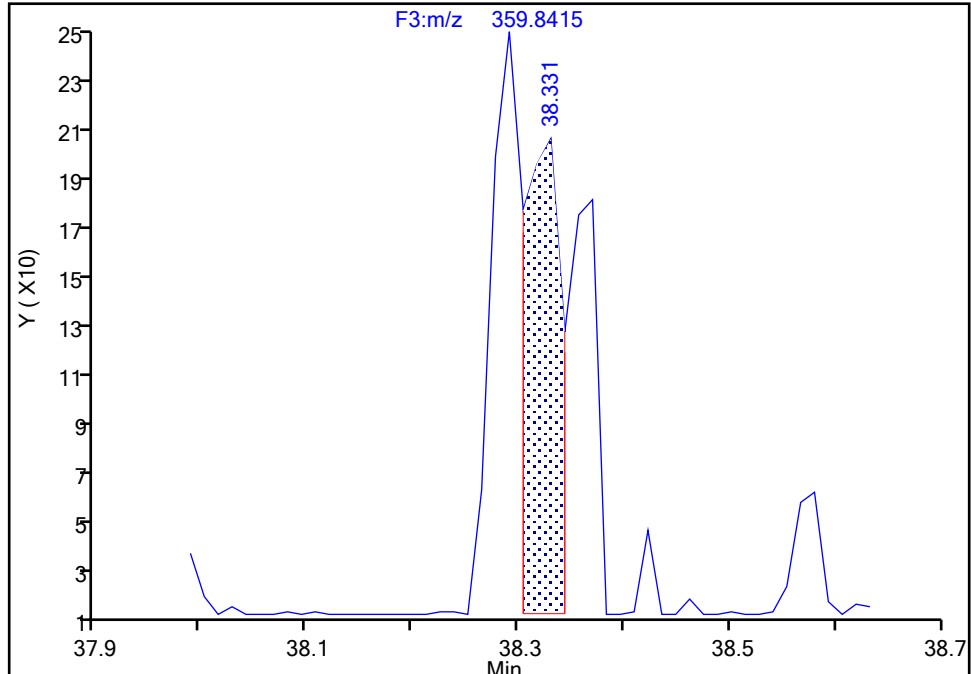
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Lims ID: 140-37232-B-14-D Lab Sample ID: 140-37232-14
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 1

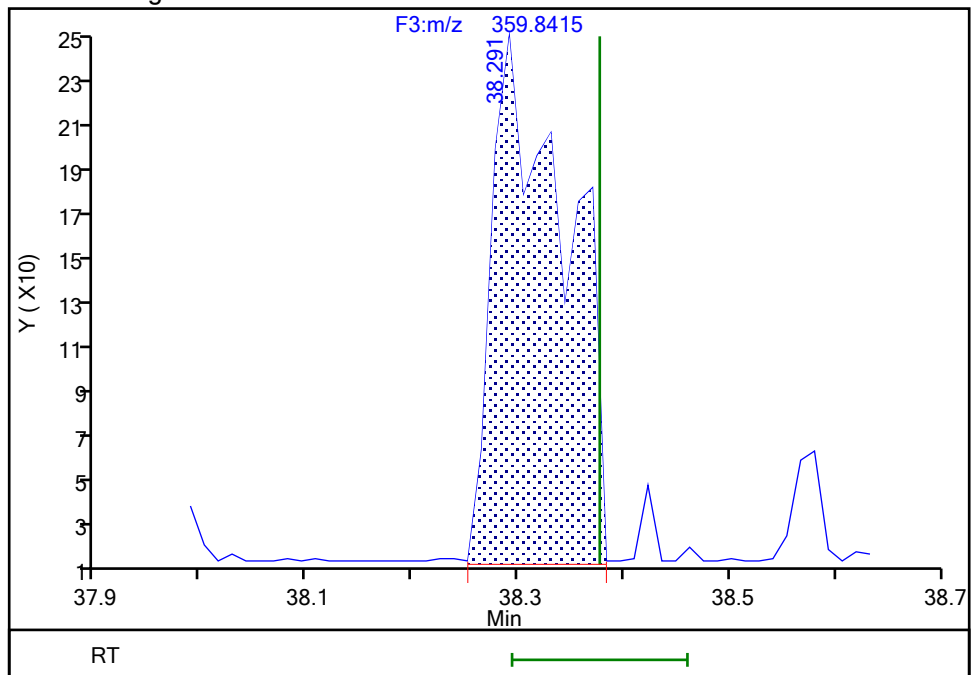
RT: 38.33
Area: 392
Amount: 0.017064
Amount Units: pg/ul

Processing Integration Results



RT: 38.29
Area: 1119
Amount: 0.039569
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:22:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

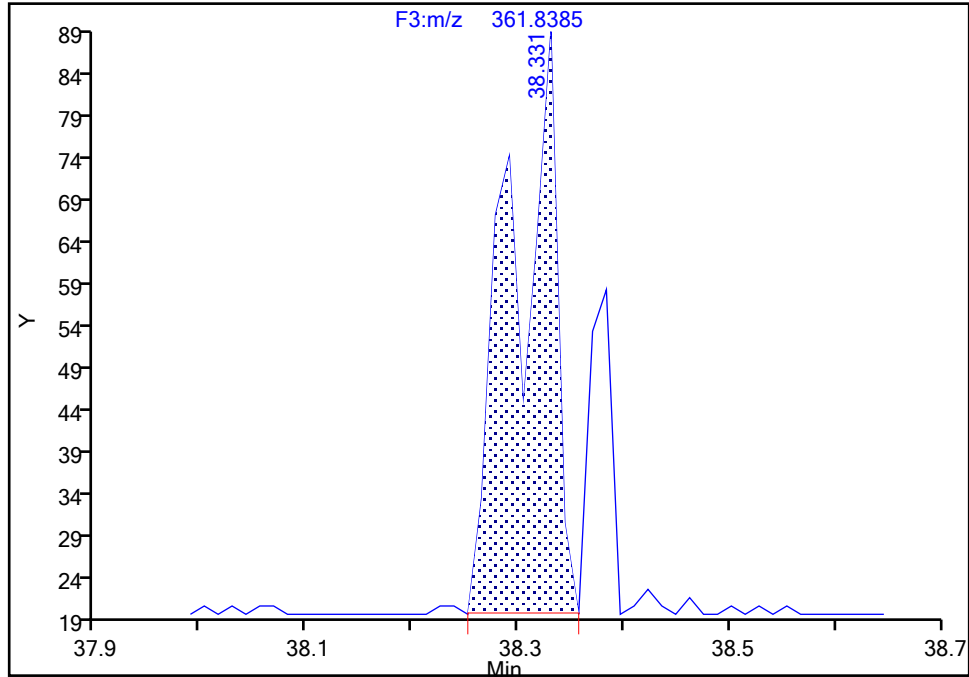
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Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 2

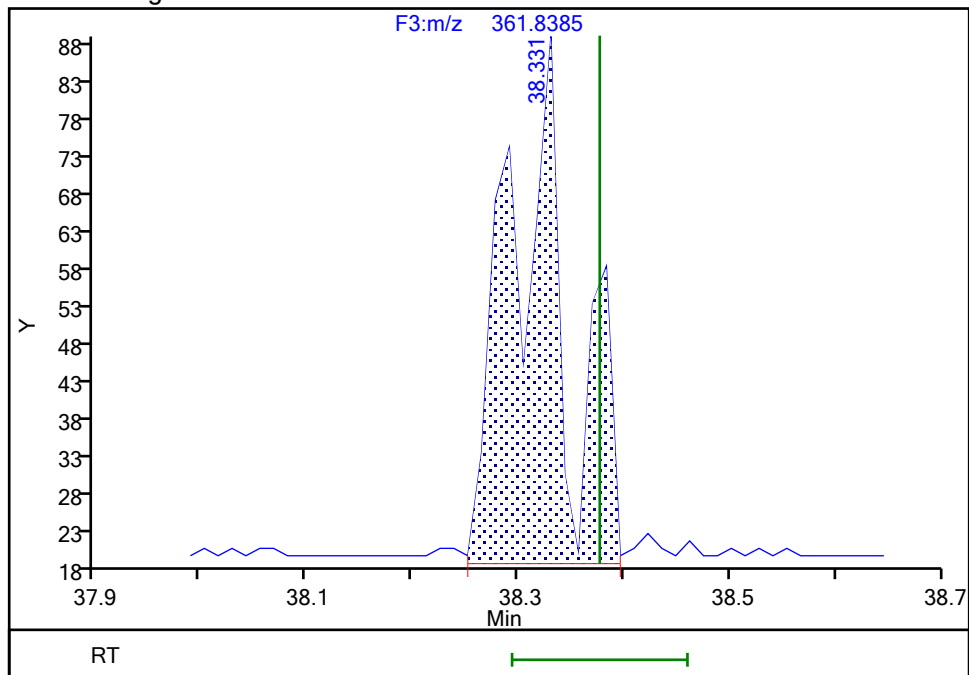
RT: 38.33
Area: 210
Amount: 0.017064
Amount Units: pg/ul

Processing Integration Results



RT: 38.33
Area: 277
Amount: 0.039569
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 19:22:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1653 of 3050

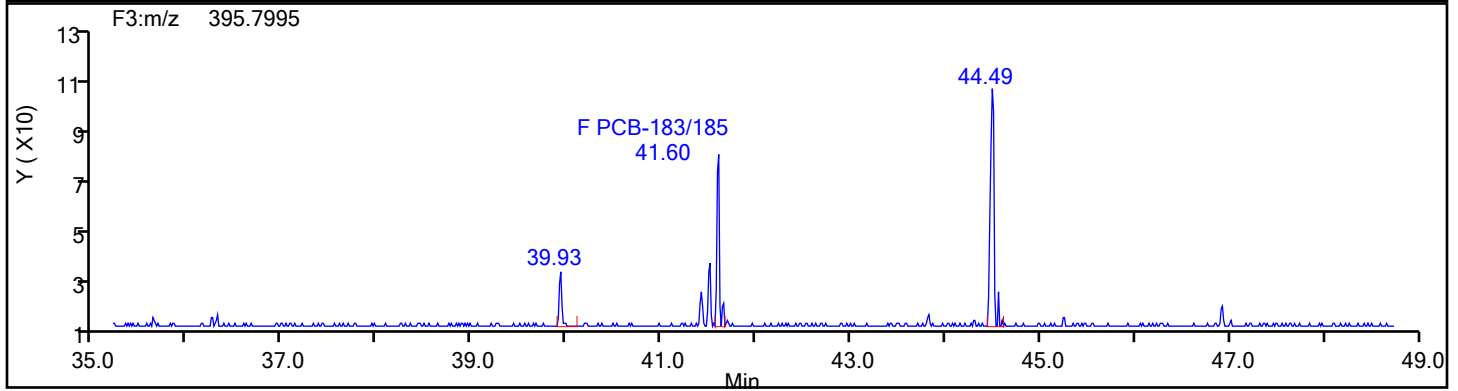
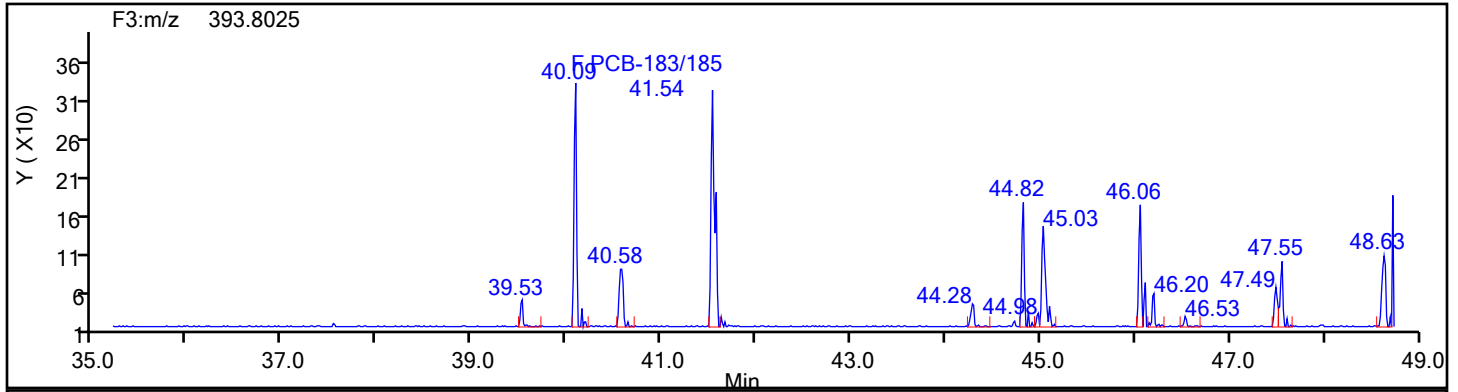
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9/6/2024

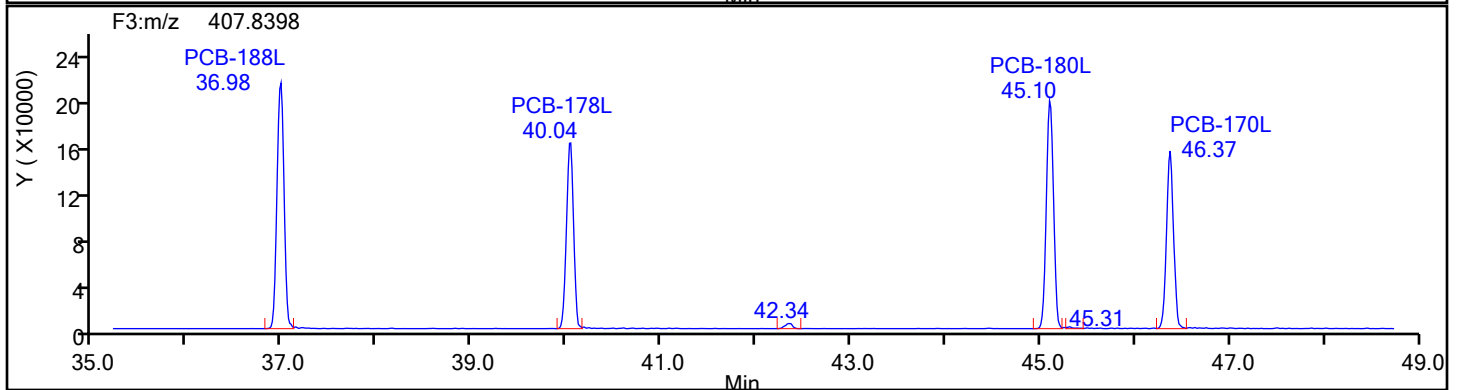
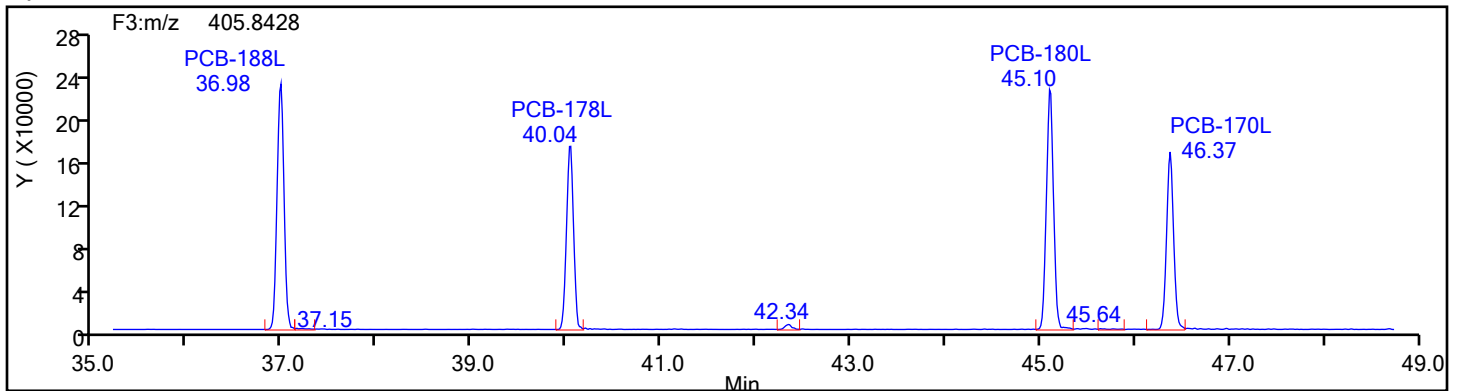
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Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

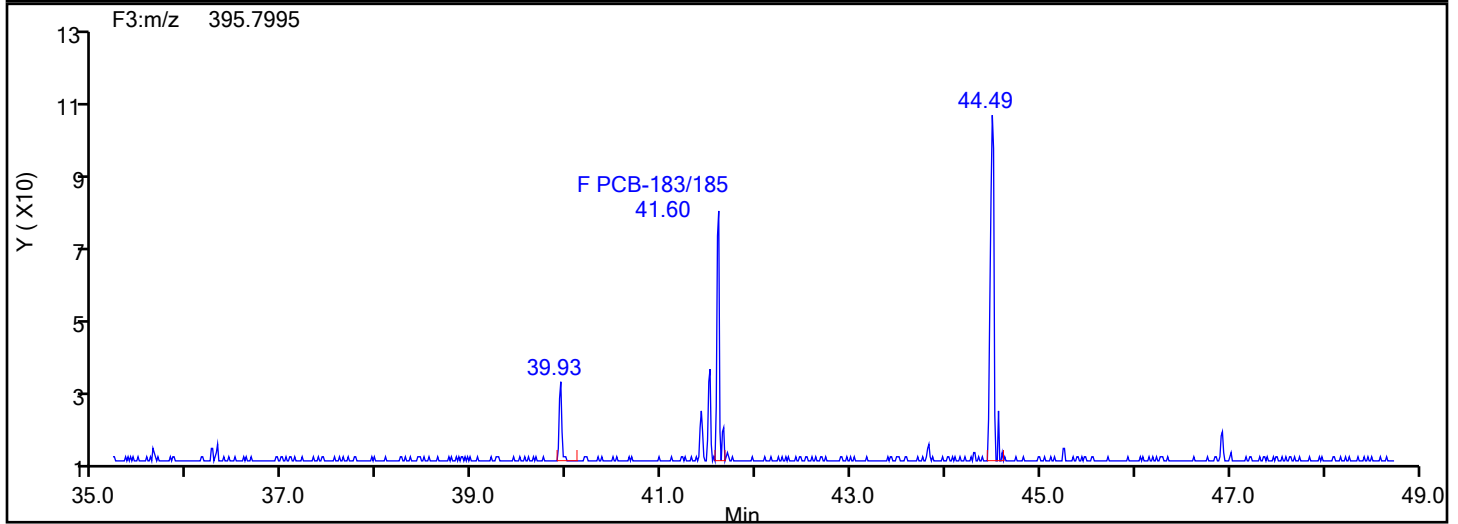
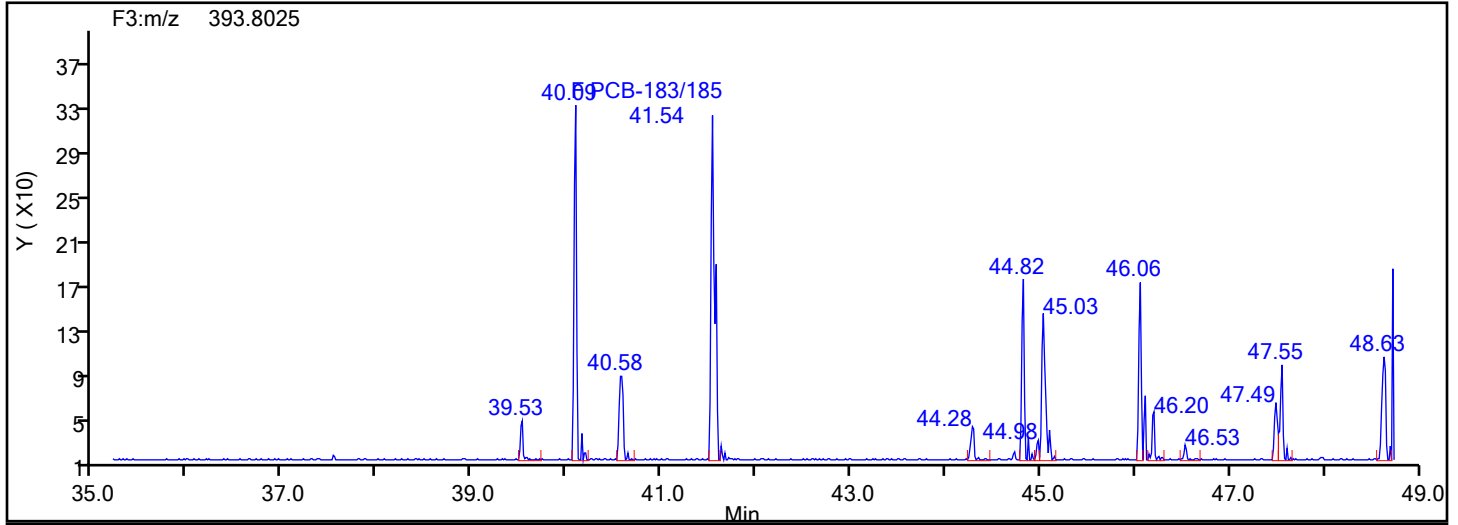


HpPCB F3 Standards

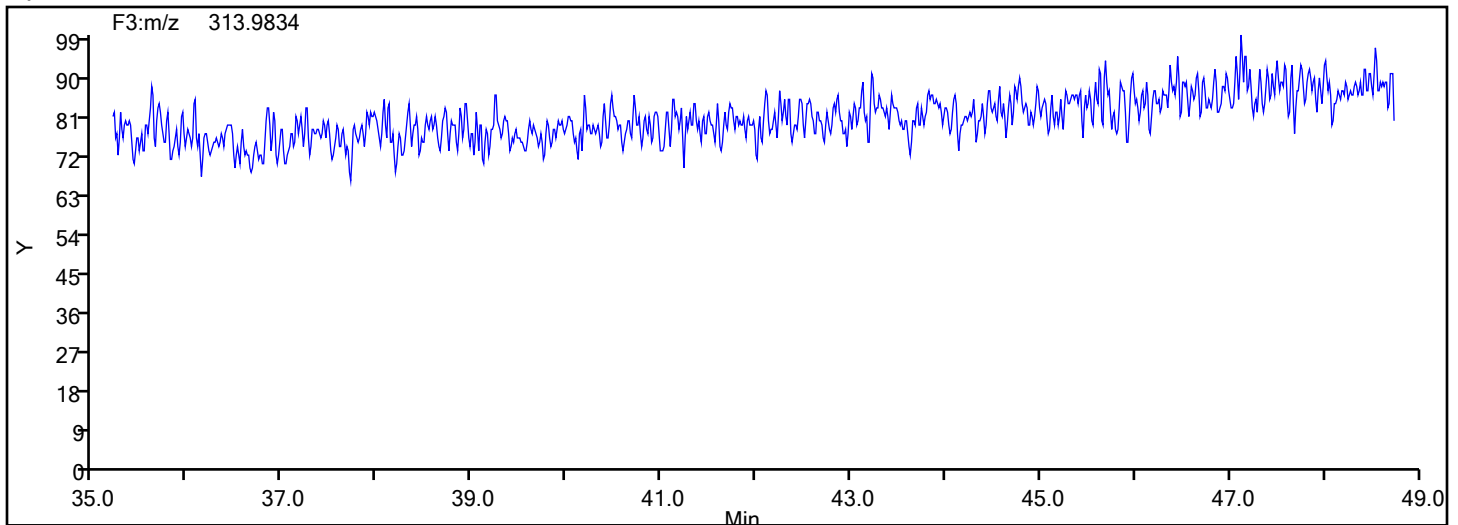


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3

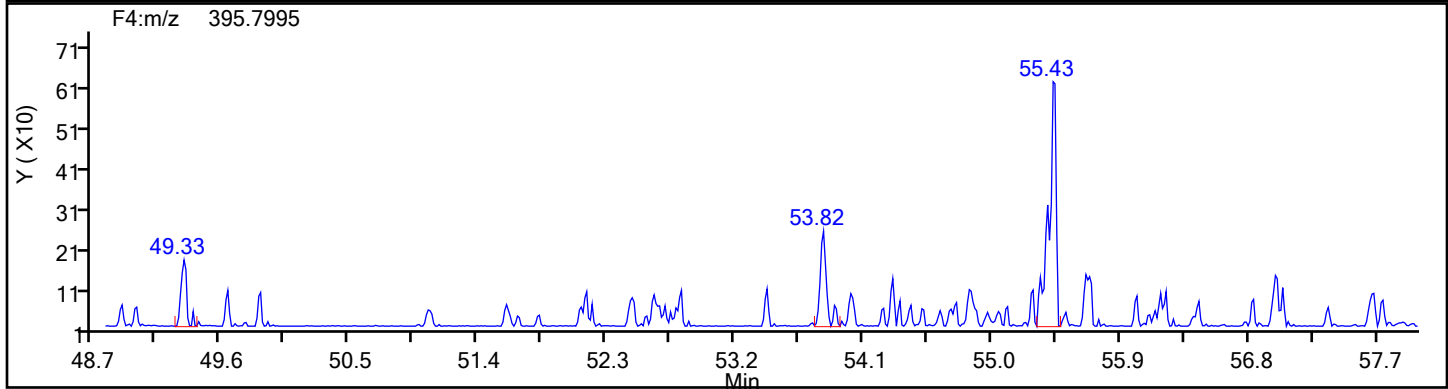
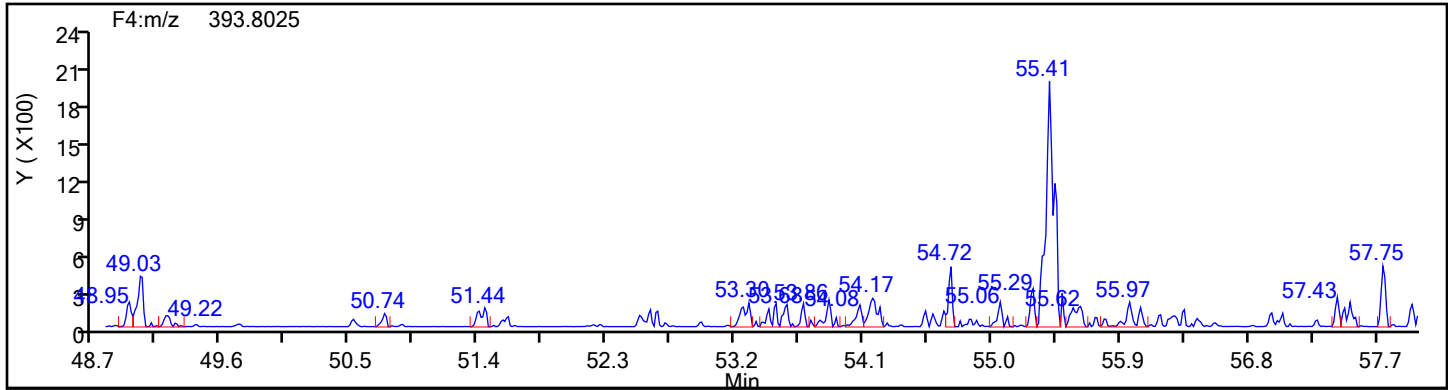


HpPCB F3 Lock Mass

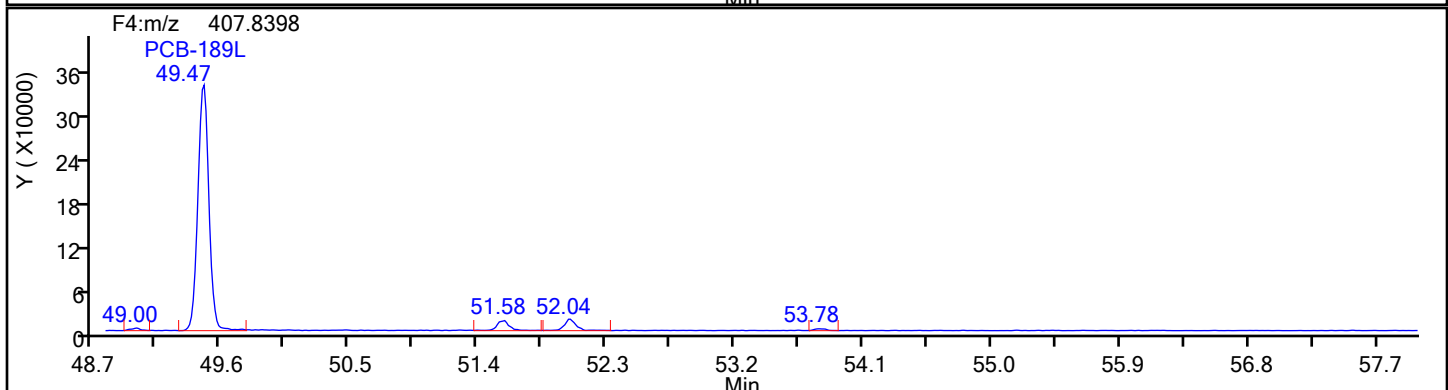
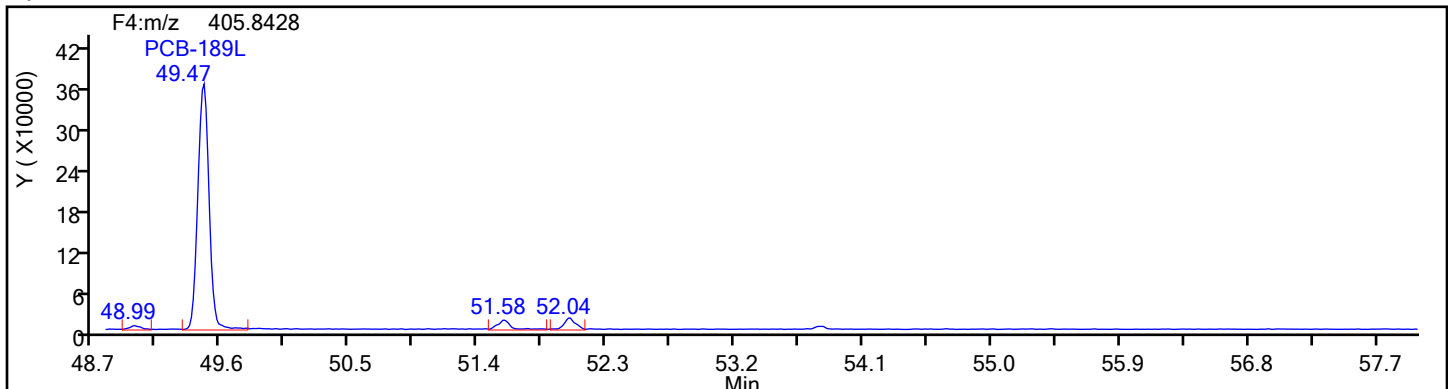


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

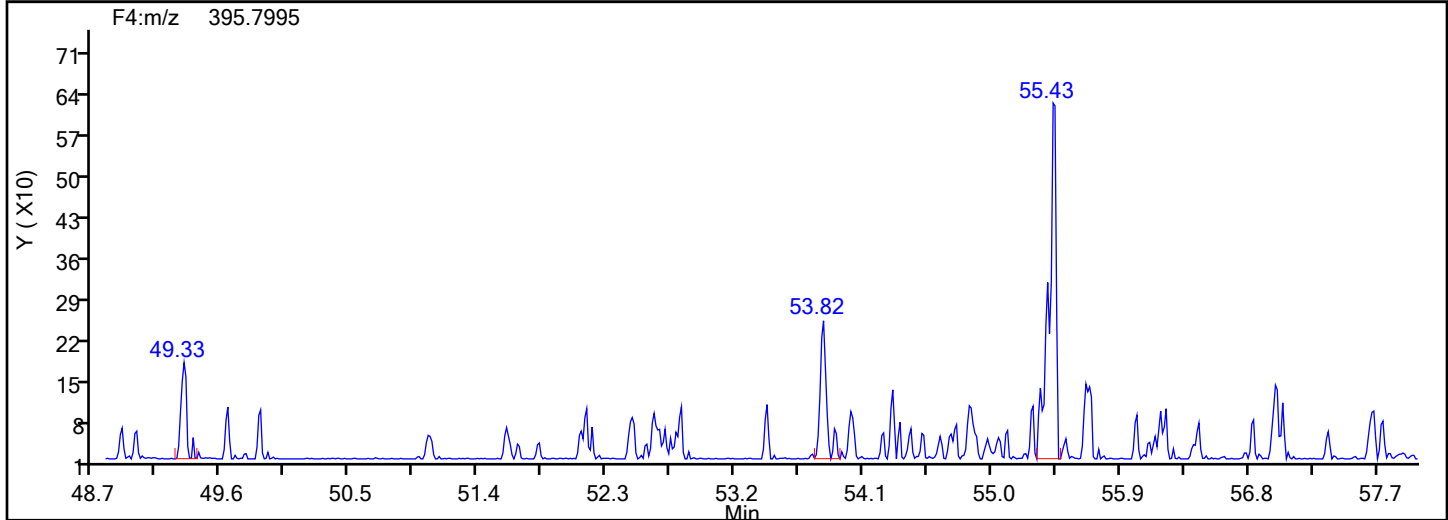
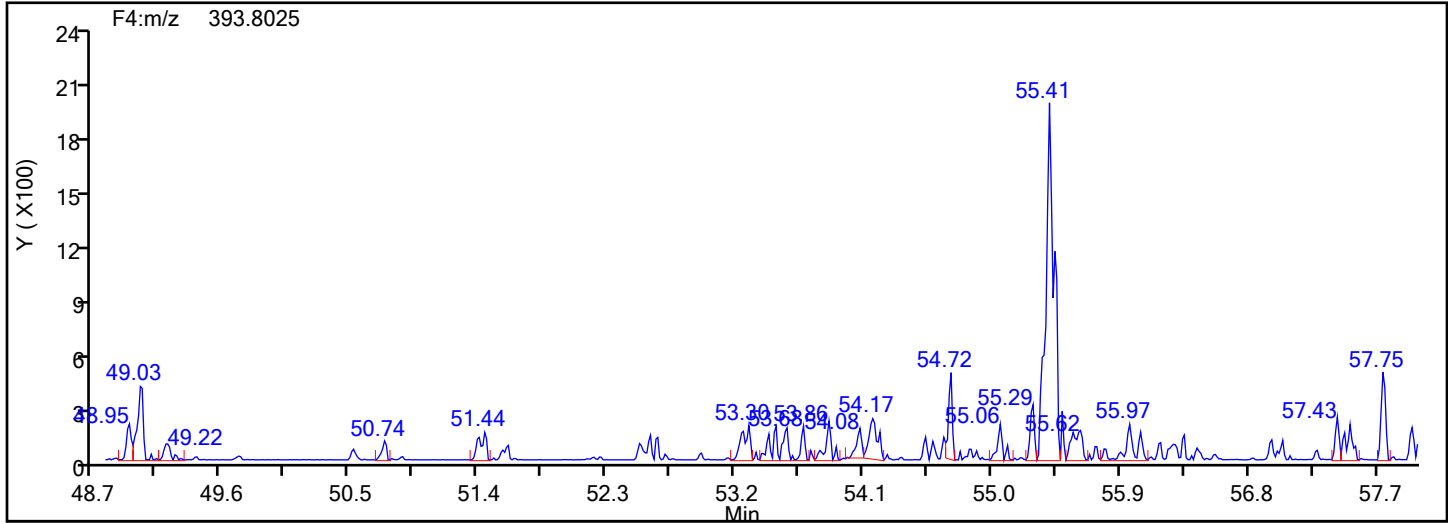


HpPCB F4 Standards

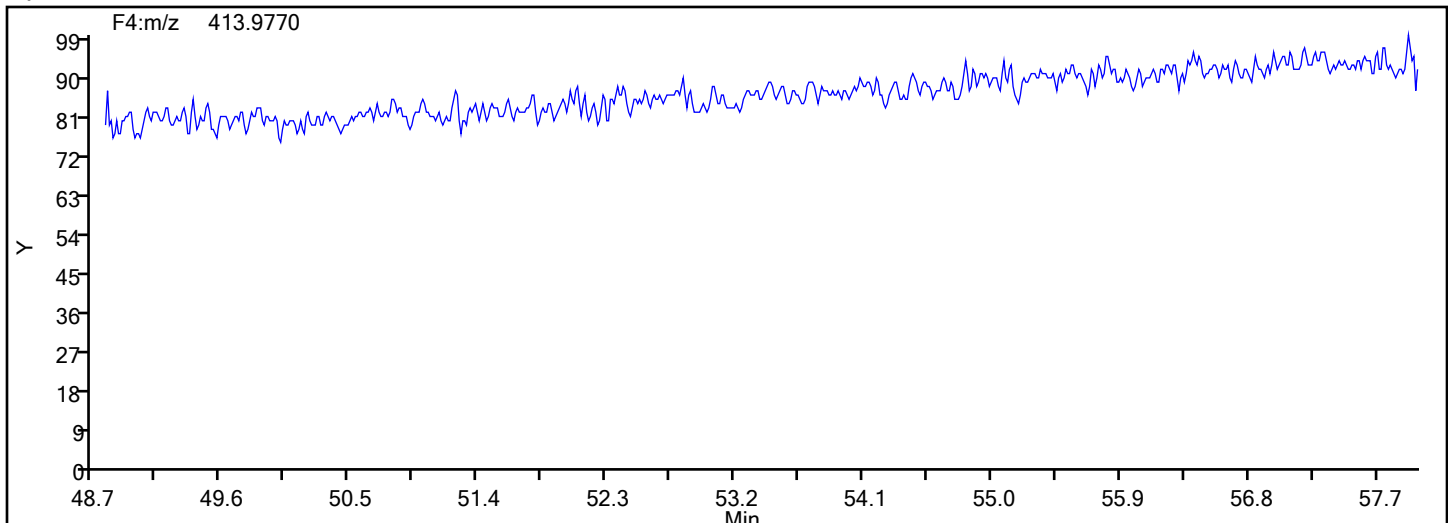


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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4

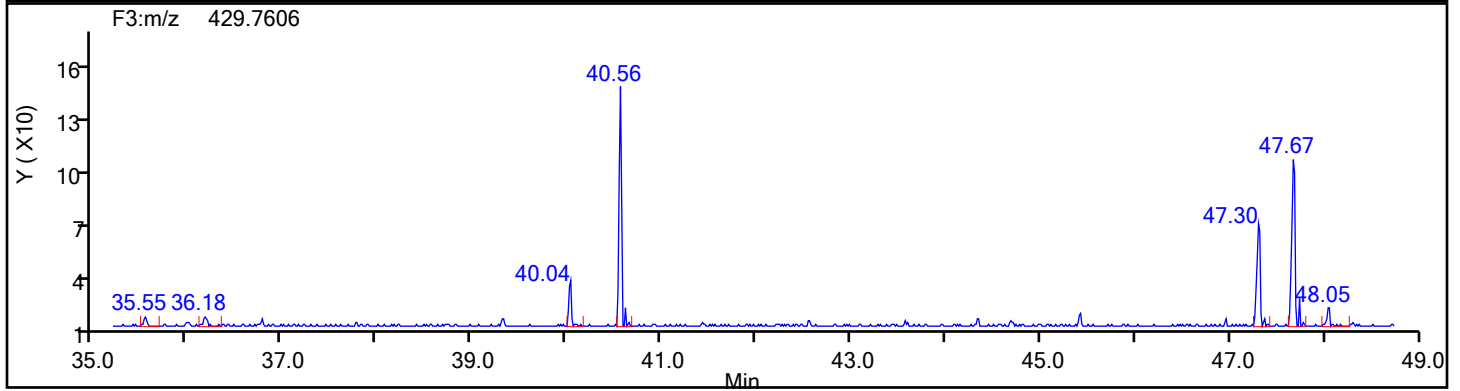
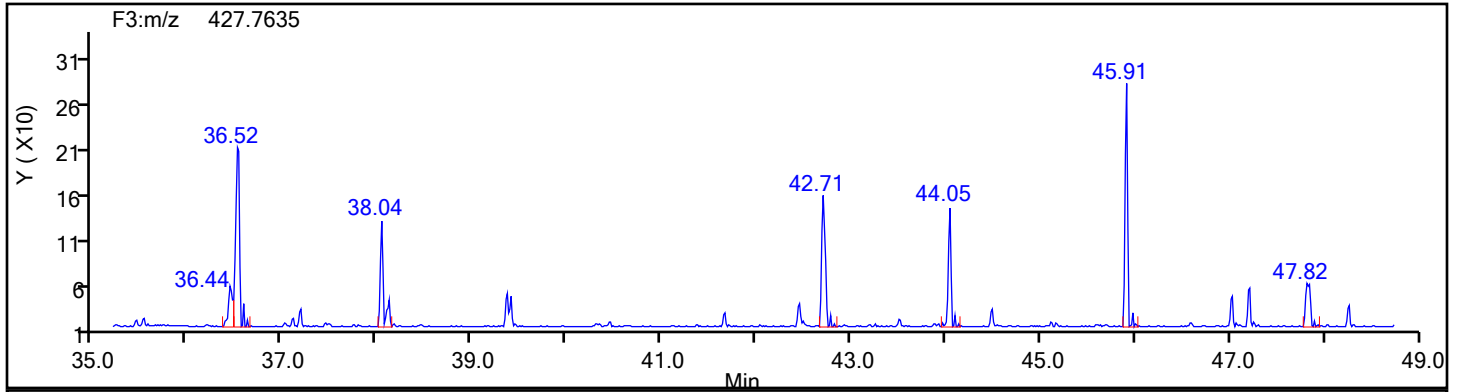


HpPCB F4 Lock Mass

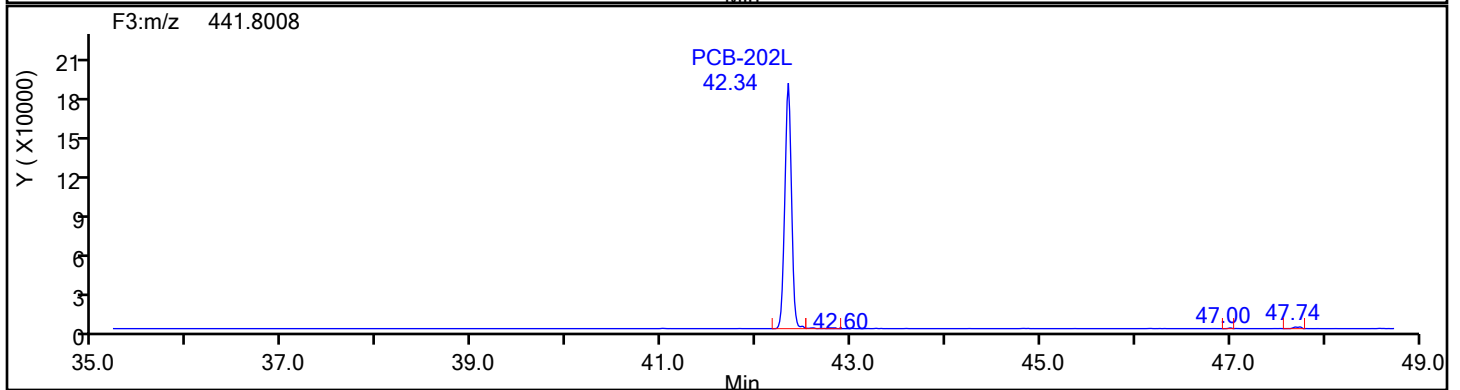
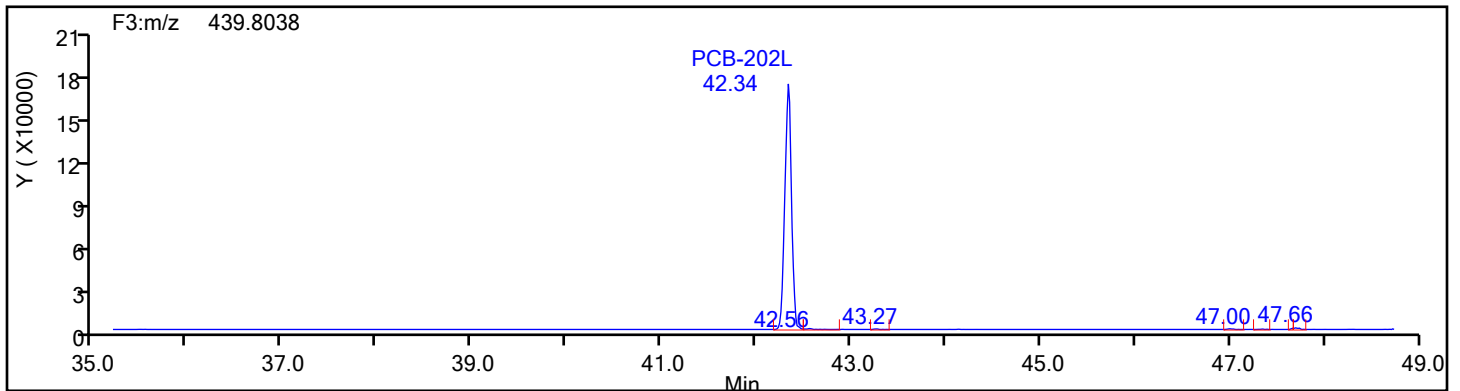


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

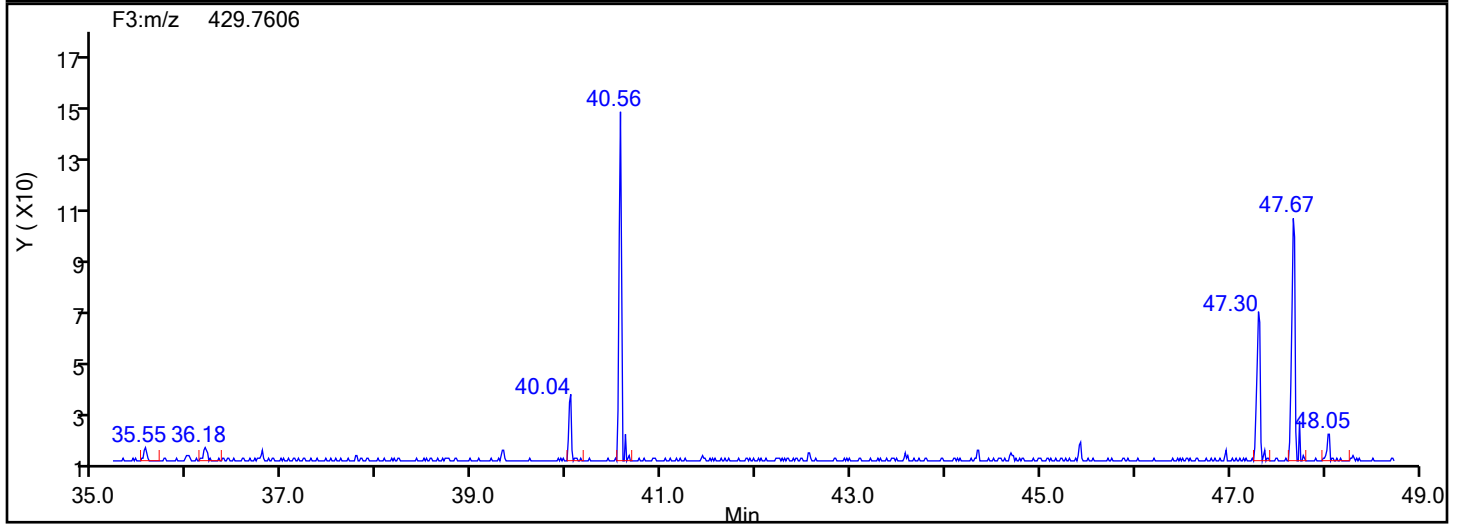
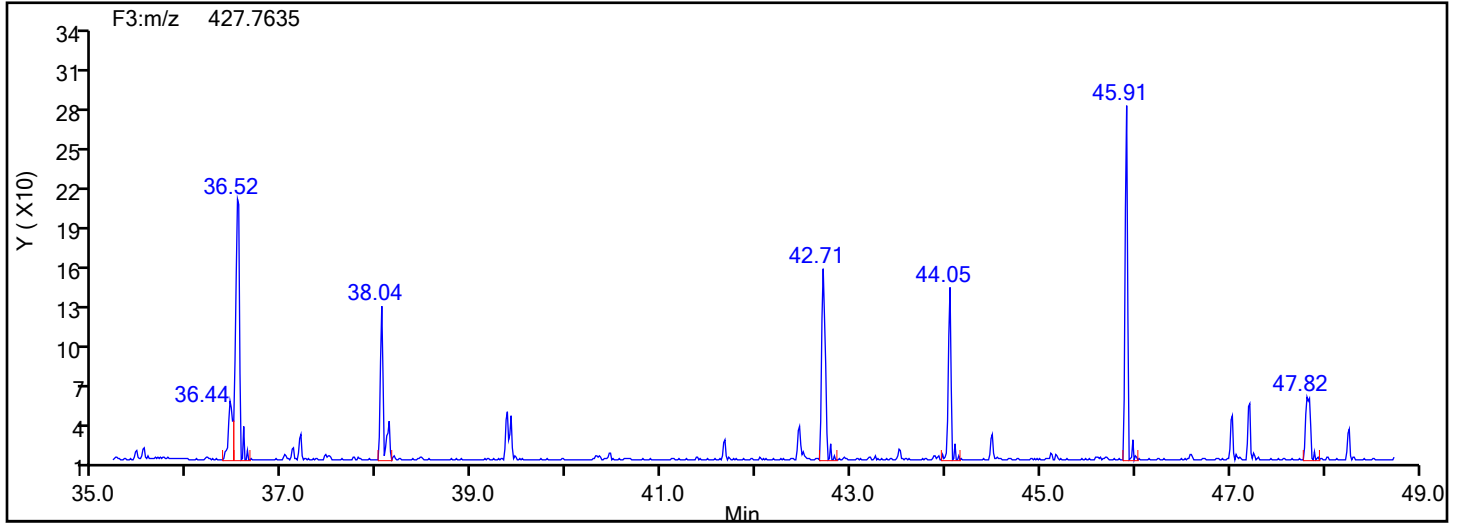


OcPCB F3 Standards

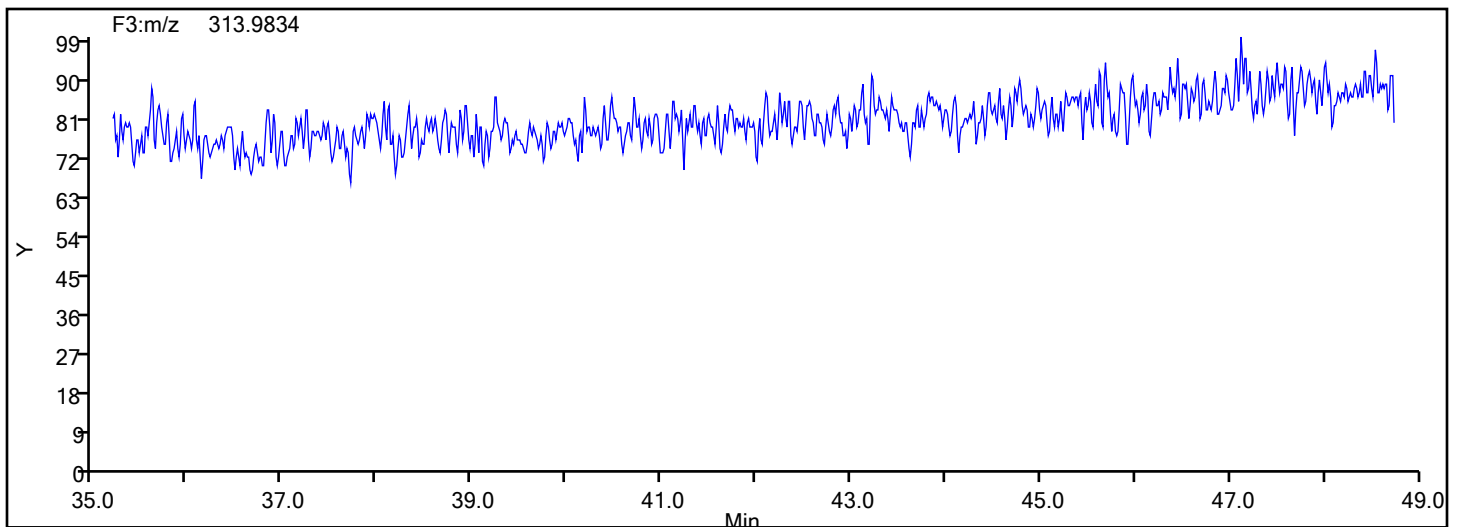


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

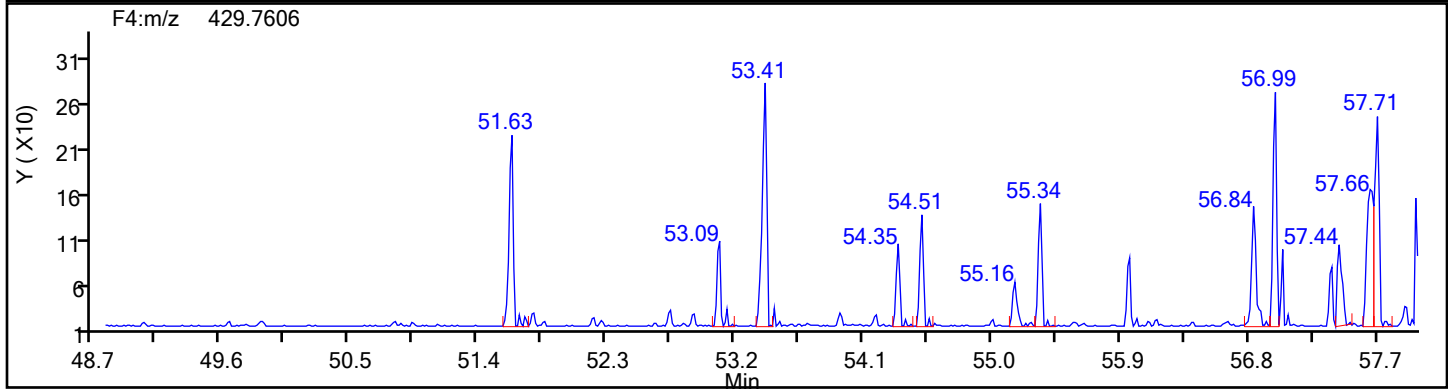
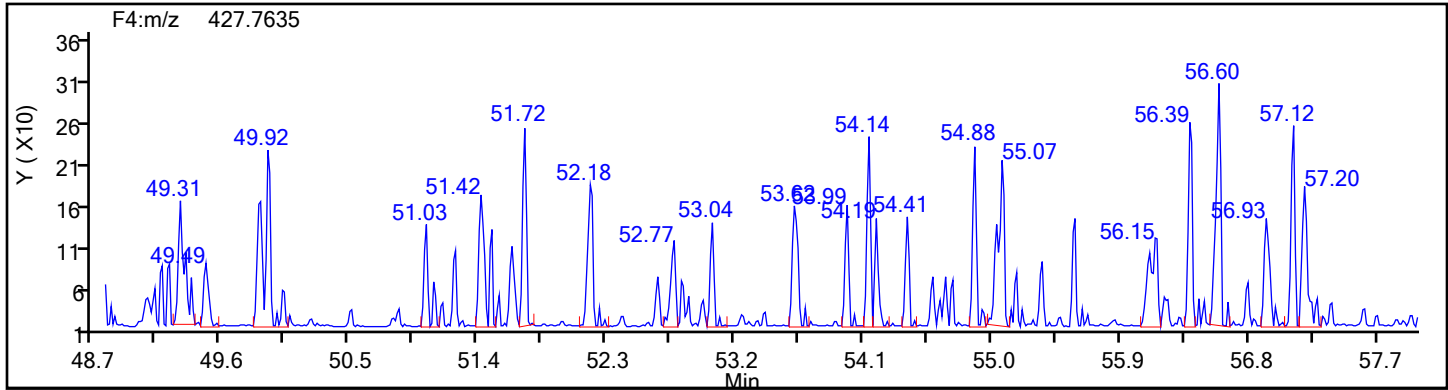


OcPCB F3 Lock Mass

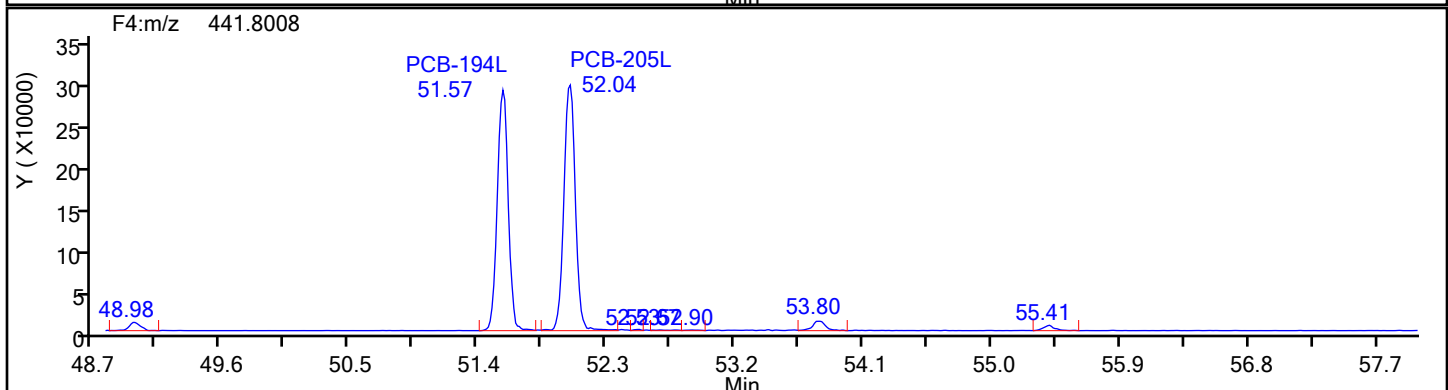
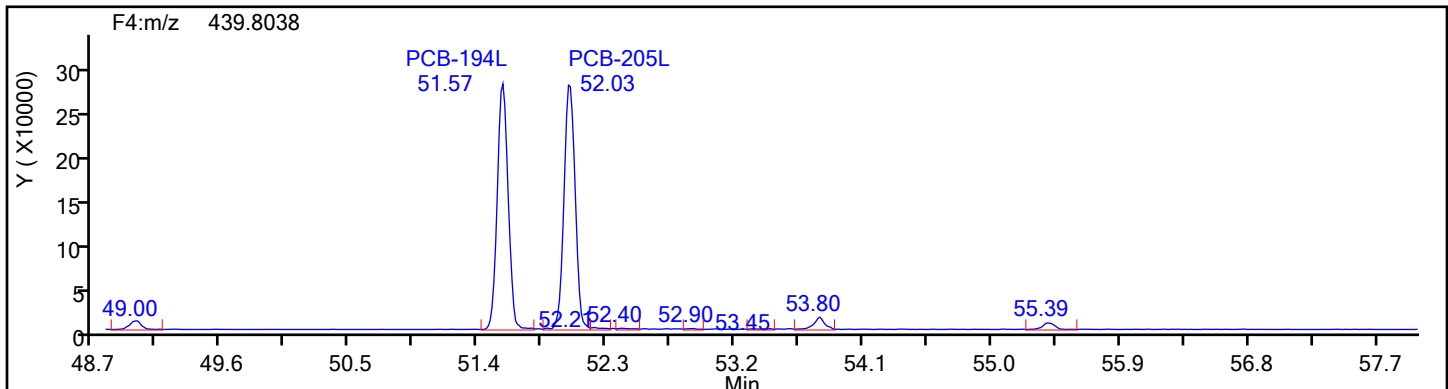


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

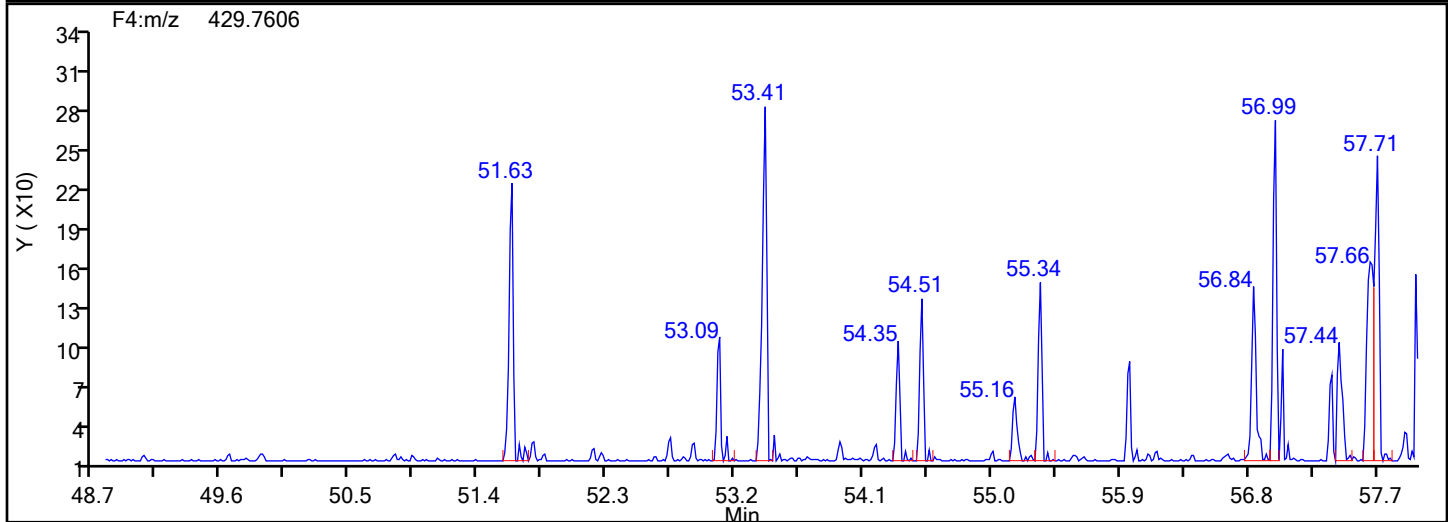
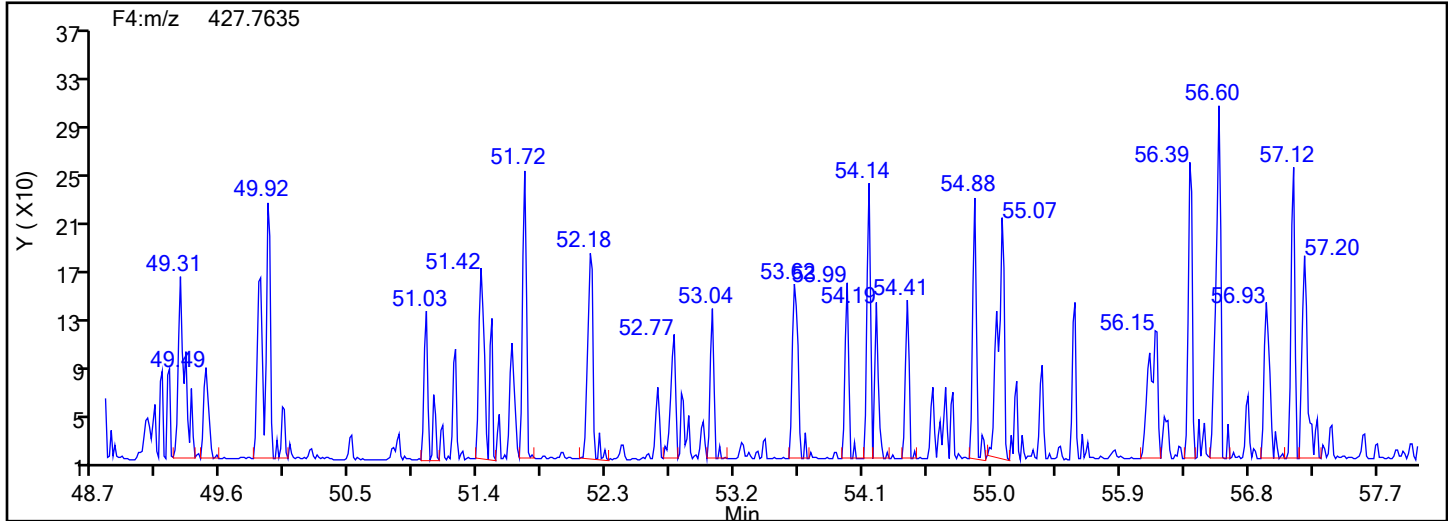


OcPCB F4 Standards

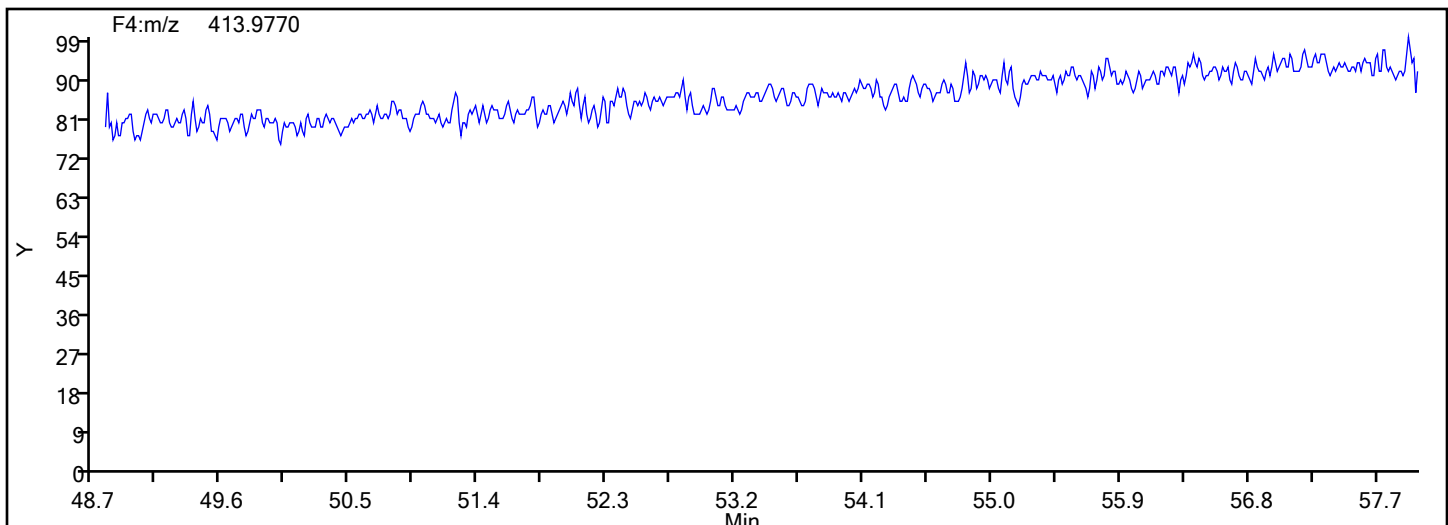


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

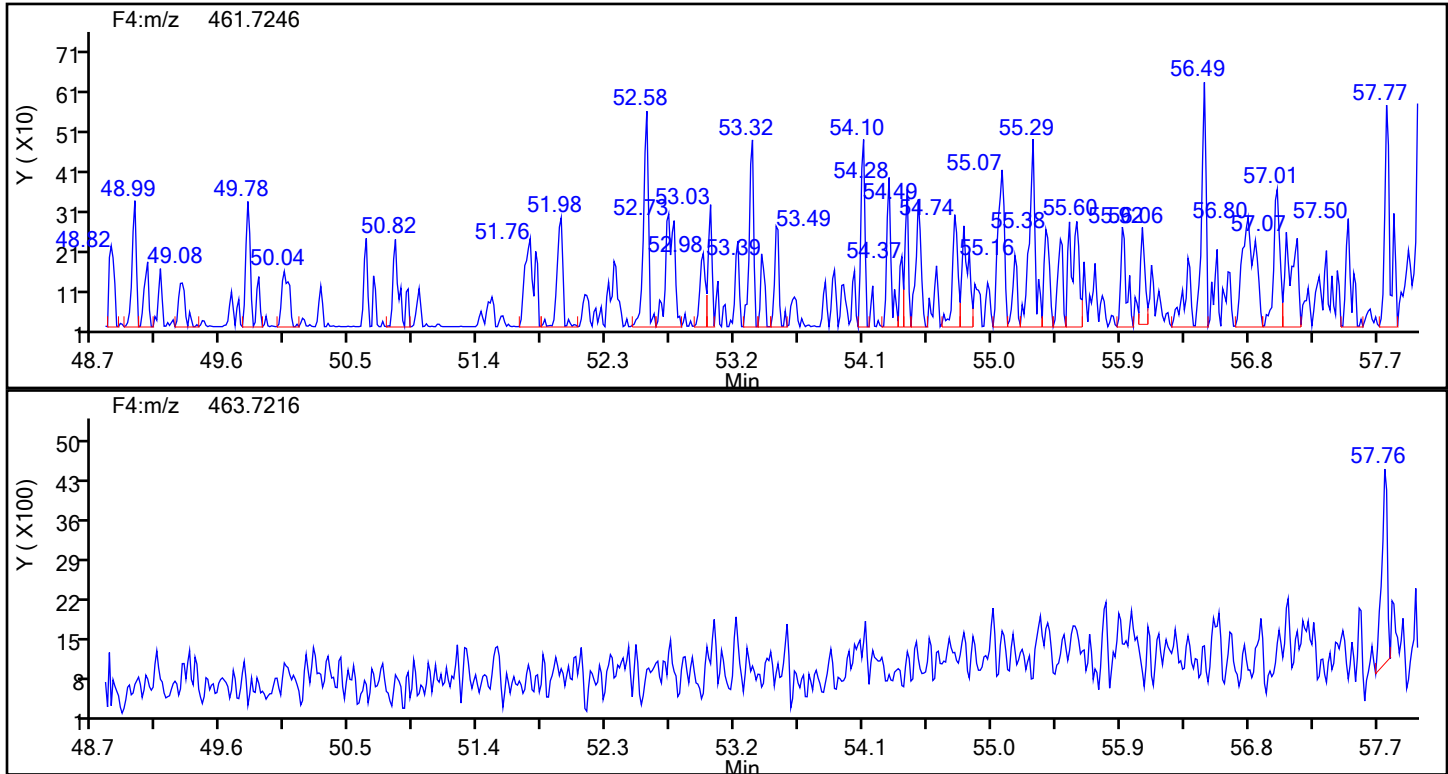


OcPCB F4 Lock Mass

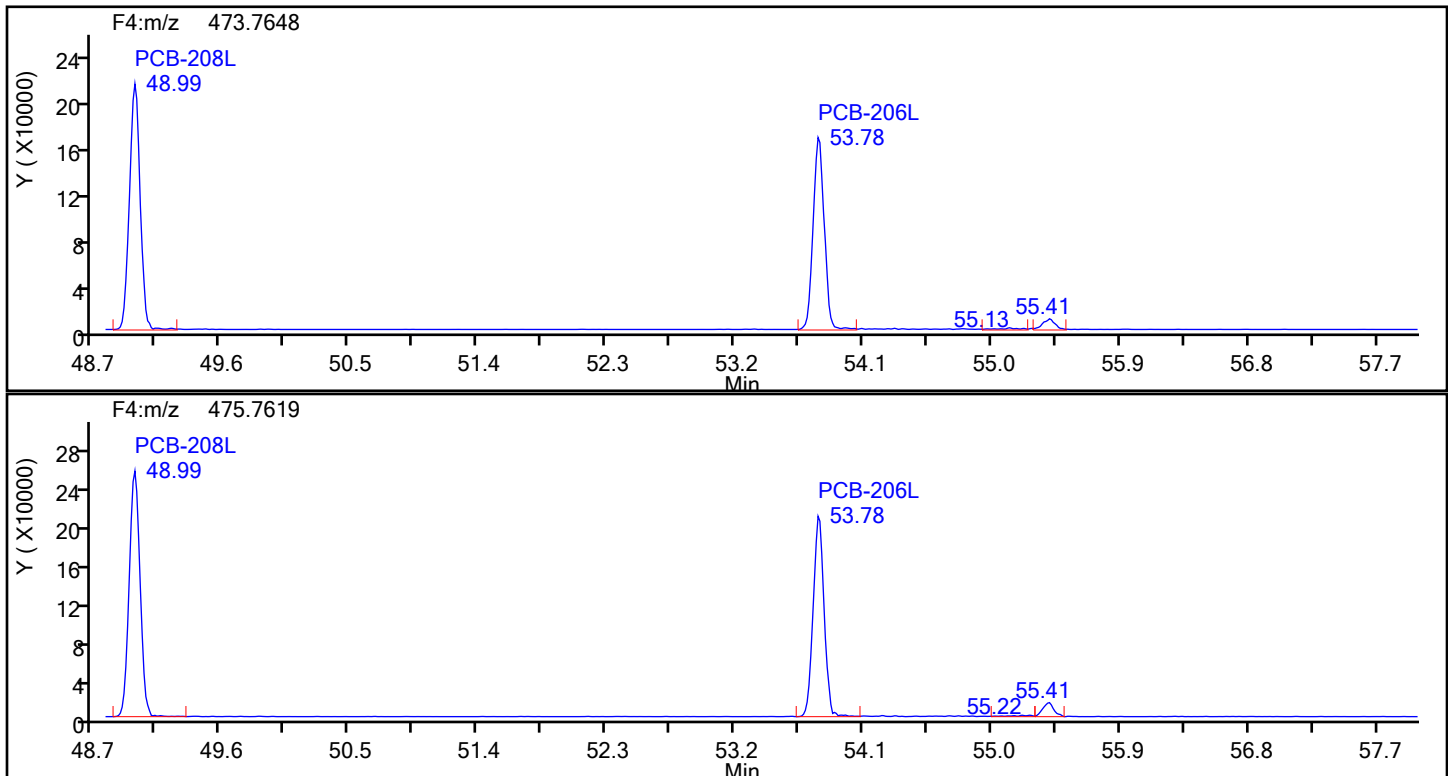


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

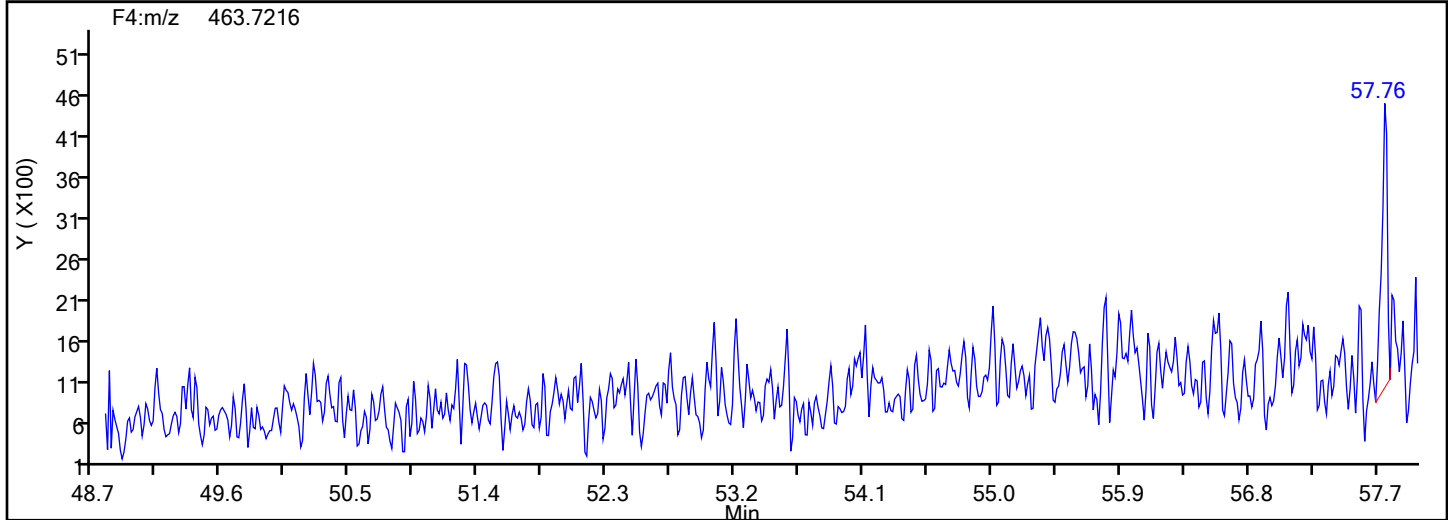
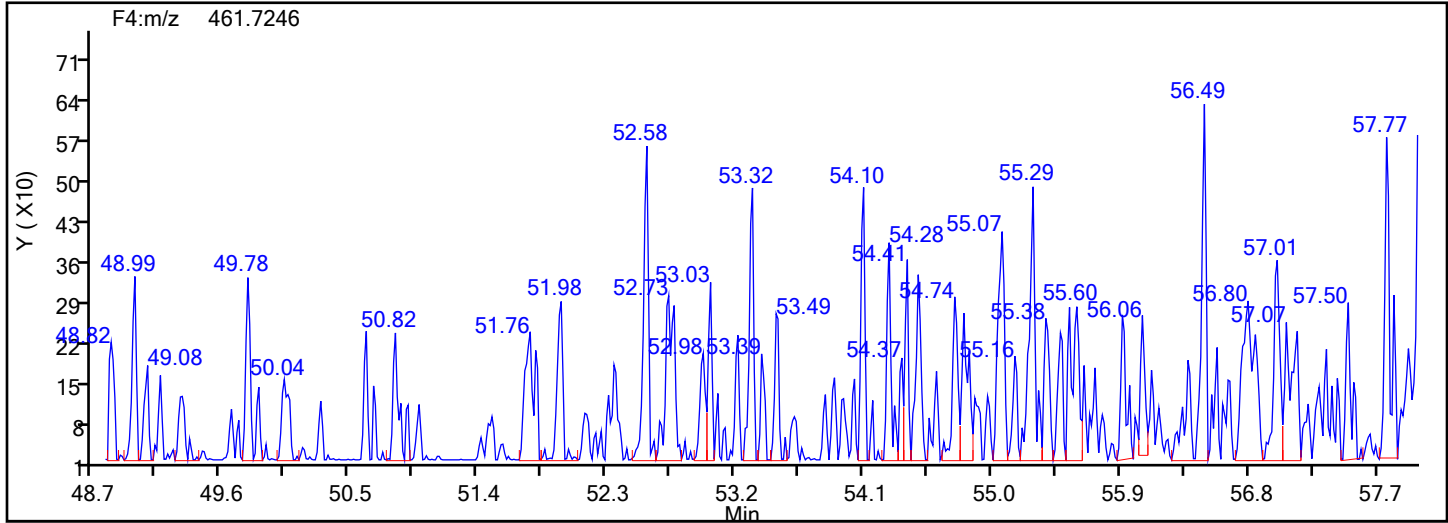


NoPCB F4 Standards

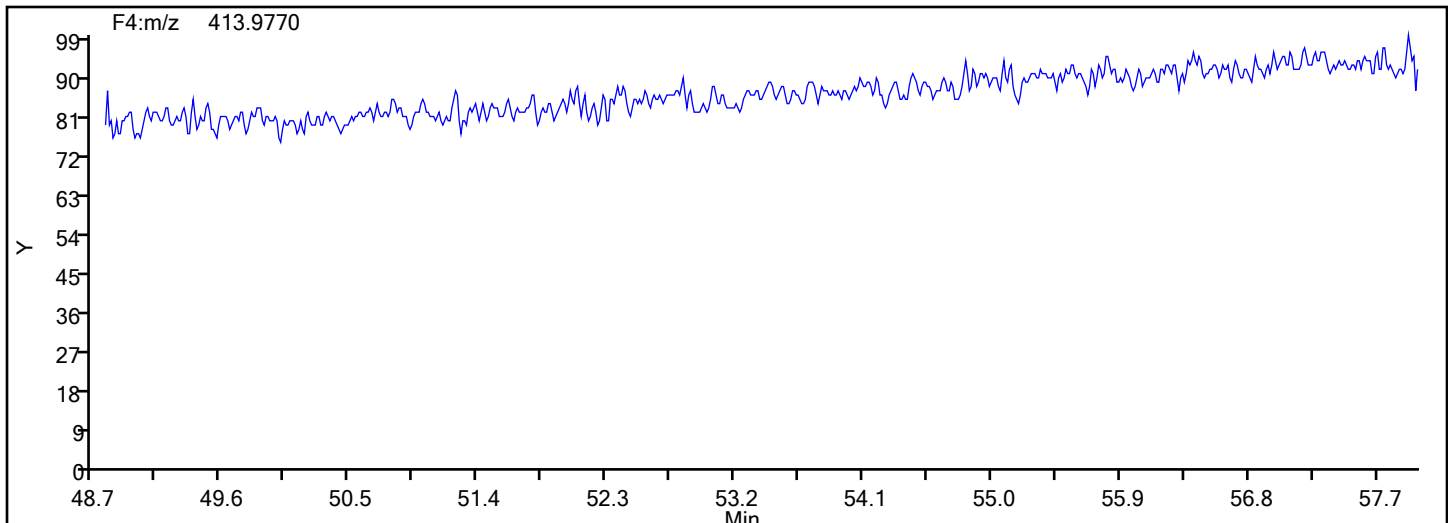


Eurofins Knoxville

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Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4

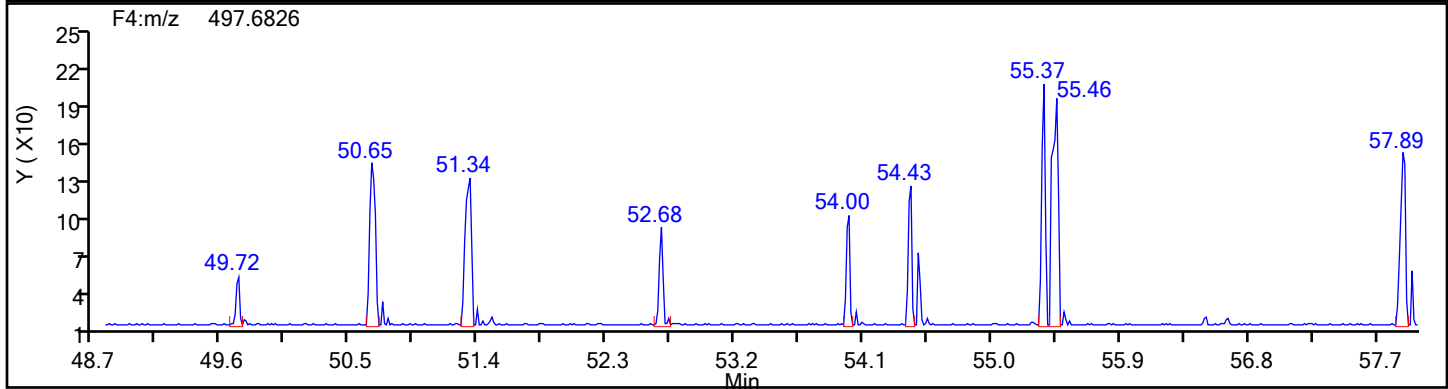
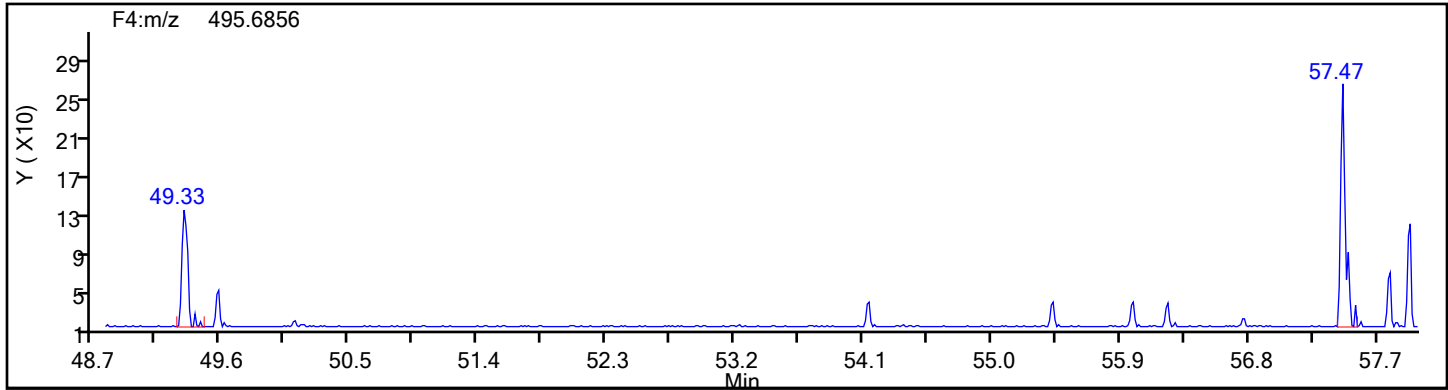


NoPCB F4 Lock Mass

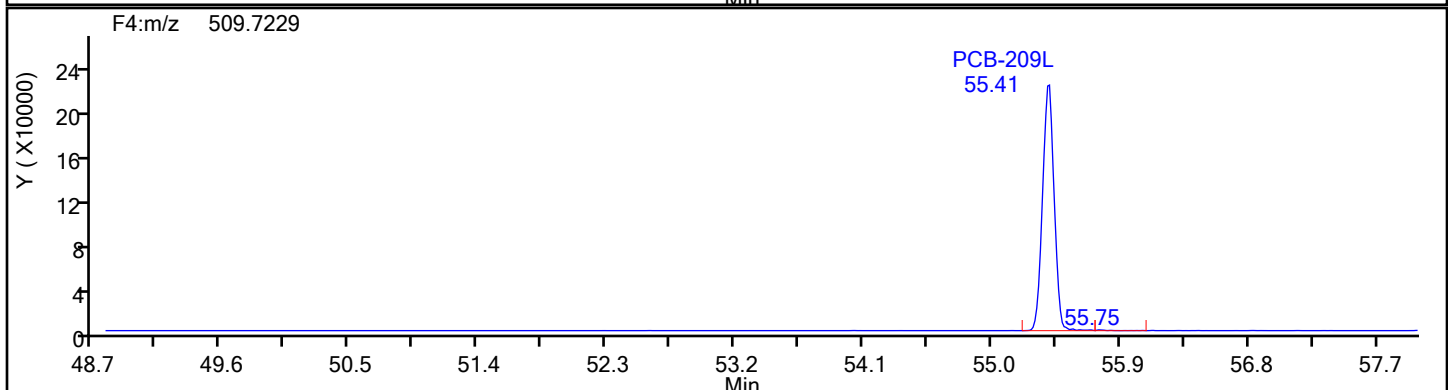
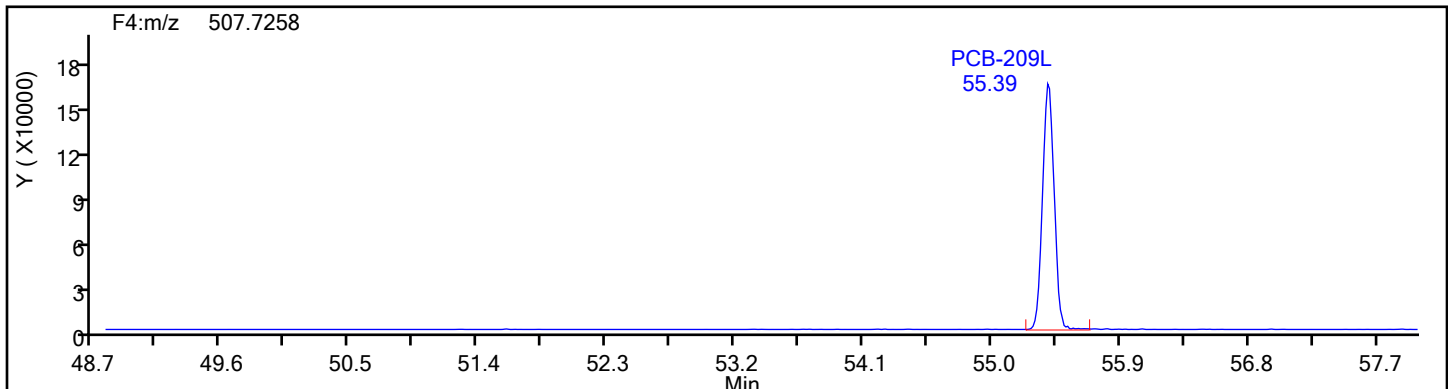


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

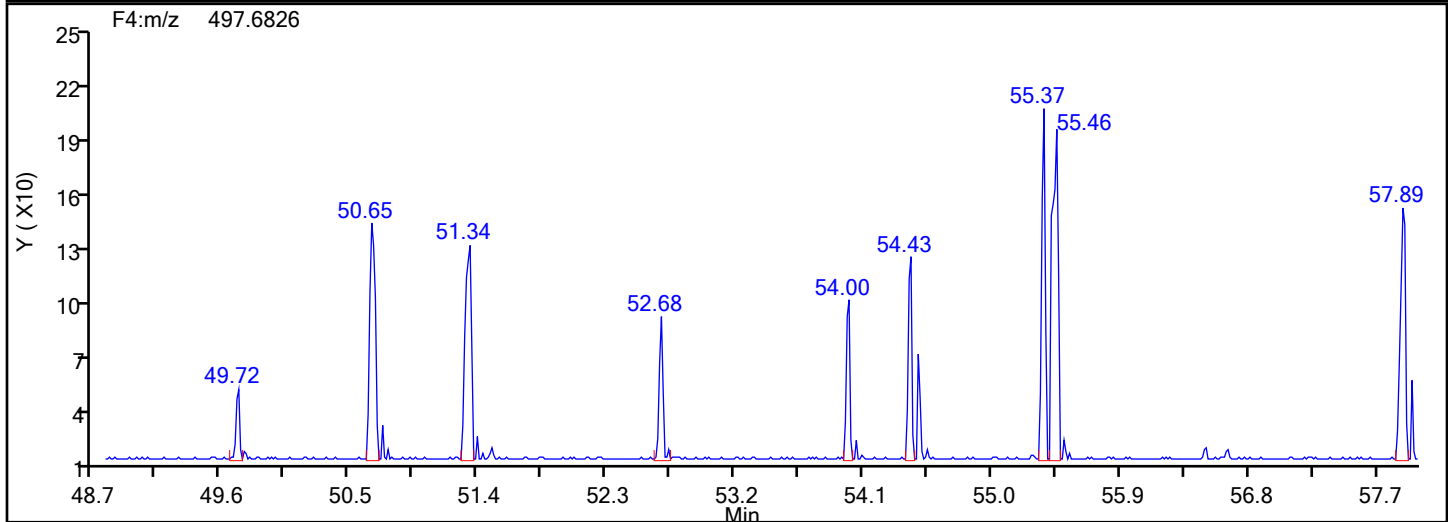
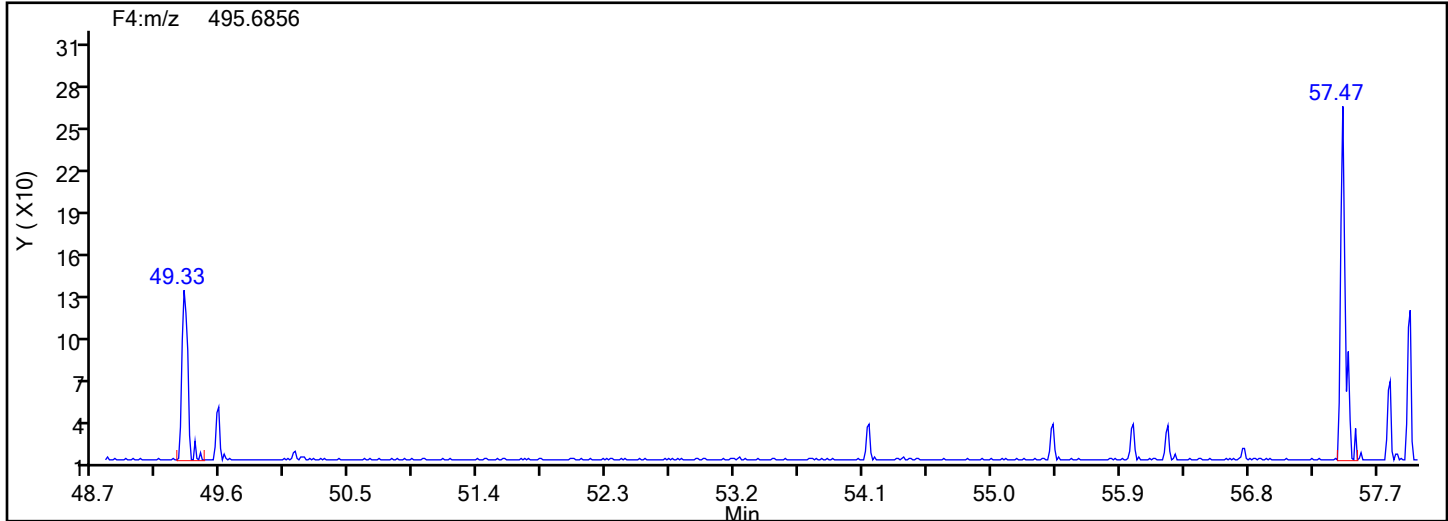


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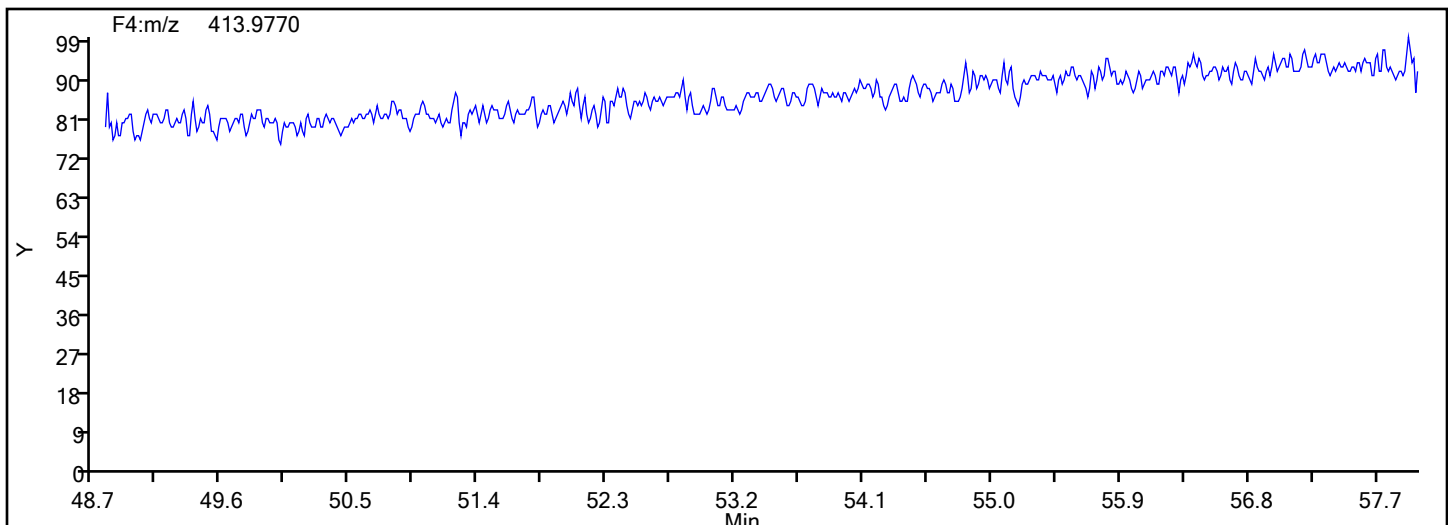


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Worklist#: 88780 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\140-37232-b-14-d.d
Lims ID: 140-37232-B-14-D
Client ID: A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER
Sample Type: Client
Inject. Date: 16-Jul-2024 02:56:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033514-006
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 19:23:55 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1626

First Level Reviewer: V4XA

Date: 16-Jul-2024 19:23:55

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	72.3	72.31
PCB-111L	100.0	74.0	74.01
PCB-178L	100.0	75.3	75.31

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1	1.1940 ++++	1.2500	1.2013	1.2099	1.2404	AveI D		1.219 1				2.0		10.0			
PCB-2	1.1446 1.2389	1.1448	1.1639	1.1761	1.2148	AveI D		1.180 5				3.3		10.0			
PCB-3	1.2348 1.2515	1.1807	1.2162	1.2221	1.2183	AveI D		1.220 6				1.9		10.0			
PCB-4	1.2321 1.3461	1.3096	1.2781	1.2714	1.2537	AveI D		1.281 8				3.2		10.0			
PCB-10	1.2608 1.3985	1.2753	1.3399	1.3379	1.2769	AveI D		1.314 9				4.0		10.0			
PCB-9	1.3387 1.4964	1.4271	1.4600	1.4190	1.3934	AveI D		1.422 4				3.8		10.0			
PCB-7	1.5117 1.4731	1.3994	1.3542	1.3818	1.3603	AveI D		1.413 4				4.6		10.0			
PCB-6	1.6333 1.6280	1.5253	1.4705	1.5096	1.4858	AveI D		1.542 1				4.6		10.0			
PCB-5	1.3392 1.4189	1.3052	1.2992	1.3524	1.3220	AveI D		1.339 5				3.3		10.0			
PCB-8	1.6110 1.7082	1.5218	1.5695	1.5692	1.5536	AveI D		1.588 9				4.1		10.0			
PCB-19	1.4682 1.2988	1.1078	1.2744	1.2635	1.2727	AveI D		1.280 9				9.0		10.0			
PCB-14	1.4324 1.4715	1.3421	1.3998	1.4142	1.3548	AveI D		1.402 5				3.5		10.0			
PCB-18	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-18/30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-11	1.3905 1.3772	1.1727	1.2859	1.2837	1.2603	AveI D		1.295 1				6.2		10.0			
PCB-17	1.2483 1.2648	1.2573	1.2165	1.2459	1.2252	AveI D		1.243 0				1.5		10.0			
PCB-12	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-12/13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-27	1.6345 1.9961	1.8041	1.8324	1.8666	1.8627	AveI D		1.832 7				6.4		10.0			
PCB-24	1.6646 1.8042	1.6220	1.6313	1.6521	1.6916	AveI D		1.677 7				4.0		10.0			
PCB-16	1.1273 1.1805	1.0631	1.1165	1.1505	1.1336	AveI D		1.128 6				3.5		10.0			
PCB-15	1.3472 1.3444	1.2915	1.2543	1.2698	1.2345	AveI D		1.290 3				3.6		10.0			
PCB-54	1.0548 1.3194	1.3250	1.3398	1.3160	1.2850	AveI D		1.273 3				8.5		10.0			
PCB-32	1.8436 1.9277	1.7589	1.8295	1.8063	1.8286	AveI D		1.832 4				3.0		10.0			
PCB-34	1.1276 1.2003	1.1001	1.1315	1.1255	1.0816	AveI D		1.127 7				3.6		10.0			
PCB-23	1.0846 1.1334	1.1176	1.0828	1.0618	1.0076	AveI D		1.081 3				4.1		10.0			
PCB-26	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-26/29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-25	1.3479 1.4028	1.2136	1.2173	1.2478	1.2074	AveI D		1.272 8				6.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-50	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-50/53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-31	1.1698 1.2166	1.2134	1.1361	1.1021	1.0816	AveI D		1.153 2				4.9		10.0			
PCB-20	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-20/28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-45	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-45/51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-21	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-21/33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-46	0.8136 0.7036	0.6810	0.7009	0.6996	0.6618	AveI D		0.710 1				7.5		10.0			
PCB-22	1.2054 1.2821	1.2400	1.1280	1.1635	1.1404	AveI D		1.193 2				5.1		10.0			
PCB-52	0.9248 0.9539	0.9077	0.9046	0.9453	0.8802	AveI D		0.919 4				3.0		10.0			
PCB-43	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-43/73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-36	1.0591 1.1622	1.1368	1.1155	1.1277	1.0411	AveI D		1.107 1				4.3		10.0			
PCB-49	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-49/69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-39	1.1186 1.2687	1.1378	1.1592	1.1455	1.1190	AveI D		1.158 1				4.9		10.0			
PCB-48	0.8723 0.8658	0.8686	0.8264	0.8197	0.7866	AveI D		0.839 9				4.1		10.0			
PCB-104	1.0018 1.0650	0.9859	0.9705	1.0176	1.0114	AveI D		1.008 7				3.2		10.0			
PCB-44	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-44/47/65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-47	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-38	1.0500 1.2340	1.0761	1.0375	1.0569	1.0513	AveI D		1.084 3				6.9		10.0			
PCB-96	1.1095 1.1878	1.0156	1.0739	1.0860	1.0913	AveI D		1.094 0				5.1		10.0			
PCB-59	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-59/62/75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-62	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-42	0.8113 0.8321	0.8216	0.8199	0.8129	0.7600	AveI n		0.809 7				3.1		10.0			
PCB-35	1.1864 1.1946	1.0768	1.0997	1.1174	1.1032	AveI n		1.129 7				4.3		10.0			
PCB-40	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-40/41/71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-41	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-37	1.2446 1.1977	1.1202	1.1033	1.1214	1.0739	AveI n		1.143 5				5.6		10.0			
PCB-64	1.2757 1.1950	1.2553	1.1305	1.1287	1.0802	AveI n		1.177 6				6.6		10.0			
PCB-72	1.1072 1.1582	1.0636	1.0877	1.1033	1.0456	AveI n		1.094 3				3.6		10.0			
PCB-103	0.8736 0.8978	0.8751	0.8648	0.8708	0.8628	AveI n		0.874 1				1.4		10.0			
PCB-68	1.1713 1.3485	1.2482	1.2729	1.2691	1.2098	AveI n		1.253 3				4.8		10.0			
PCB-94	0.8000 0.7483	0.8119	0.7717	0.7293	0.7229	AveI n		0.764 0				4.8		10.0			
PCB-57	1.0250 1.1565	1.1157	1.0598	1.0897	1.0441	AveI n		1.081 8				4.5		10.0			
PCB-95	0.8097 0.8296	0.7716	0.7842	0.8098	0.8147	AveI n		0.803 3				2.7		10.0			
PCB-58	1.2802 1.4828	1.2178	1.3141	1.3624	1.2948	AveI n		1.325 3				6.8		10.0			
PCB-100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93/100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-67	1.4870 1.5547	1.4071	1.3635	1.3760	1.3499	AveI n		1.423 n				5.7		10.0			
PCB-102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98/102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-63	1.1333 1.1656	1.1761	1.1205	1.1003	1.0480	AveI n		1.124 n				4.2		10.0			
PCB-88	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-88/91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-61	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-61/70/74/76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-70	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-74	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-84	0.7253 0.7289	0.7880	0.7158	0.7118	0.7098	AveI n		0.729 9				4.0		10.0			
PCB-66	1.2356 1.3668	1.2319	1.2361	1.2632	1.2159	AveI n		1.258 3				4.4		10.0			
PCB-55	1.4498 1.4176	1.2365	1.2959	1.2975	1.2446	AveI n		1.323 6				6.8		10.0			
PCB-89	0.8919 0.7624	0.7464	0.7786	0.7510	0.7487	AveI n		0.779 8				7.2		10.0			
PCB-56	1.3935 1.2927	1.1650	1.1869	1.2090	1.1533	AveI n		1.233 4				7.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-121	1.2521 1.3582	1.3178	1.2898	1.2840	1.2764	AveI n		1.296 4				2.9		10.0			
PCB-60	1.1287 1.1681	1.2454	1.0506	1.0957	1.0497	AveI n		1.123 n				6.7		10.0			
PCB-92	0.8629 0.8532	0.9060	0.8272	0.8441	0.8340	AveI n		0.854 6				3.3		10.0			
PCB-80	1.3863 1.4151	1.3253	1.2723	1.2911	1.2555	AveI n		1.324 3				4.8		10.0			
PCB-155	0.8891 0.9694	0.9655	0.9454	0.9529	0.9441	AveI n		0.944 4				3.1		10.0			
PCB-152	0.9848 1.0543	0.9951	0.9825	0.9514	0.9689	AveI n		0.989 5				3.6		10.0			
PCB-101	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90/101/113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-150	0.9630 1.0549	1.0080	1.0261	1.0137	1.0137	AveI n		1.013 2				2.9		10.0			
PCB-136	1.0587 1.0659	1.0008	0.9487	0.9880	1.0074	AveI n		1.011 6				4.4		10.0			
PCB-83	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-83/99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-112	1.4446 1.4376	1.4885	1.3872	1.3506	1.3581	AveI n		1.411 1				3.9		10.0			
PCB-145	0.9965 1.0100	0.9201	0.9636	0.9587	0.9620	AveI n		0.968 5				3.3		10.0			
PCB-109	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-119	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-86	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-86/87/97/109/119/125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-87	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-97	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			
PCB-79	1.4446 1.5780	1.5277	1.3489	1.3731	1.3487	AveI n		1.436 8				6.8		10.0			
PCB-78	1.3219 1.1568	1.1964	1.1351	1.1019	1.0589	AveI n		1.161 8				7.9		10.0			
PCB-116	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI n		1.040 8				4.5		10.0			
PCB-117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI n		1.040 8				4.5		10.0			
PCB-85	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI n		1.040 8				4.5		10.0			
PCB-85/116/117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI n		1.040 8				4.5		10.0			
PCB-110	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI n		1.191 9				3.4		10.0			
PCB-110/115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI n		1.191 9				3.4		10.0			
PCB-115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI n		1.191 9				3.4		10.0			
PCB-81	1.1198 1.0938	1.0960	1.0617	1.0764	1.0336	AveI n		1.080 2				2.8		10.0			
PCB-82	0.8343 0.8464	0.8471	0.8169	0.8239	0.8133	AveI n		0.830 3				1.8		10.0			
PCB-148	0.7646 0.8045	0.7251	0.7535	0.7521	0.7619	AveI n		0.760 3				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-77	1.1688 1.1358	1.1149	1.0365	1.0577	0.9878	AveI n		1.083 6				6.3		10.0			
PCB-111	1.1586 1.2376	1.3369	1.1635	1.1851	1.1934	AveI n		1.212 5				5.5		10.0			
PCB-135	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-135/151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-120	1.5296 1.5558	1.4689	1.4158	1.4553	1.4322	AveI n		1.476 2				3.7		10.0			
PCB-154	0.7411 0.8586	0.8405	0.7996	0.8196	0.8180	AveI n		0.812 9				5.0		10.0			
PCB-144	0.8256 0.7980	0.7839	0.7628	0.7715	0.7696	AveI n		0.785 2				3.0		10.0			
PCB-147	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-147/149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-134	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-134/143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-108	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-108/124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-139	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-139/140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-107	1.2904 1.2477	1.1149	1.2342	1.2247	1.1606	AveI n		1.212 1				5.2		10.0			
PCB-131	++++ 0.7939	0.7383	0.7244	0.7426	0.7522	AveI n		0.750 3				3.5		10.0			
PCB-123	1.0853 1.1357	1.1455	0.9540	1.0597	1.0534	AveI n		1.072 2				6.5		10.0			
PCB-106	1.1069 1.1546	1.0523	1.0740	1.0674	1.0482	AveI n		1.083 9				3.7		10.0			
PCB-142	0.7103 0.8062	0.7184	0.7532	0.7662	0.7499	AveI n		0.750 7				4.6		10.0			
PCB-118	1.2183 1.2440	1.2619	1.1653	1.1919	1.1519	AveI n		1.205 5				3.6		10.0			
PCB-132	0.8263 0.7367	0.7289	0.7517	0.7328	0.7172	AveI n		0.748 9				5.3		10.0			
PCB-122	0.9558 0.9670	1.0294	0.8926	0.9780	0.9174	AveI n		0.956 7				5.0		10.0			
PCB-114	1.0610 1.1325	1.1067	1.0582	1.0904	1.0562	AveI n		1.084 2				2.9		10.0			
PCB-188	1.1156 1.1562	1.1704	1.1401	1.1253	1.1021	AveI n		1.135 0				2.3		10.0			
PCB-133	0.7310 0.8077	0.8763	0.8206	0.7984	0.8233	AveI n		0.809 6				5.8		10.0			
PCB-179	1.5749 1.4293	1.4195	1.3854	1.3901	1.3662	AveI n		1.427 6				5.3		10.0			
PCB-165	0.9540 1.0449	1.0900	1.0214	1.0299	1.0082	AveI n		1.024 7				4.4		10.0			
PCB-105	1.2867 1.2230	1.1805	1.1299	1.1716	1.1358	AveI n		1.187 9				5.0		10.0			
PCB-146	0.9491 1.0049	0.9807	0.9470	0.9459	0.9546	AveI n		0.963 7				2.5		10.0			
PCB-184	1.2839 1.4655	1.3652	1.3444	1.3829	1.3613	AveI n		1.367 2				4.3		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-161	1.0600 1.1917	1.1649	1.0974	1.1477	1.1109	AveI n		1.128 8				4.3		10.0			
PCB-176	1.3664 1.2480	1.1518	1.2043	1.2425	1.1853	AveI n		1.233 1				6.0		10.0			
PCB-153	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-153/168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-141	0.9407 0.8523	0.9151	0.8464	0.8514	0.8472	AveI n		0.875 5				4.7		10.0			
PCB-186	1.5061 1.5480	1.3932	1.4313	1.5084	1.4554	AveI n		1.473 7				3.9		10.0			
PCB-130	0.7258 0.6913	0.7312	0.6983	0.6982	0.6859	AveI n		0.705 1				2.7		10.0			
PCB-127	1.1110 1.1760	1.1837	1.0836	1.1718	1.1102	AveI n		1.139 4				3.8		10.0			
PCB-137	0.7492 0.7964	0.7547	0.7964	0.8113	0.7519	AveI n		0.776 7				3.6		10.0			
PCB-164	1.0491 1.0752	1.0276	1.0023	1.0331	1.0422	AveI n		1.038 2				2.3		10.0			
PCB-129	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-129/138/160/163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-138	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-160	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-158	1.3613 1.3135	1.3421	1.2753	1.3085	1.2656	AveI n		1.311 0				2.8		10.0			
PCB-178	0.8513 0.9163	0.9050	0.8951	0.9086	0.8915	AveI n		0.894 6				2.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-175	1.0419 0.9670	0.9241	0.8934	0.9568	0.9313	AveI n		0.952 4				5.3		10.0			
PCB-126	0.9955 1.1577	1.0940	1.0804	1.1528	1.1051	AveI n		1.097 6				5.4		10.0			
PCB-128	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-128/166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-187	1.0455 1.1457	1.1219	1.0756	1.1255	1.0967	AveI n		1.101 8				3.3		10.0			
PCB-182	0.8297 0.9568	0.8873	0.9545	0.9855	0.9345	AveI n		0.924 7				6.1		10.0			
PCB-183	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-183/185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-174	1.0171 1.0197	0.8541	0.9397	0.9984	0.9560	AveI n		0.964 2				6.5		10.0			
PCB-159	1.3182 1.4701	1.4065	1.3956	1.3722	1.3512	AveI n		1.385 6				3.8		10.0			
PCB-162	1.2486 1.2460	1.3071	1.2846	1.2413	1.2150	AveI n		1.257 1				2.6		10.0			
PCB-177	1.0068 0.9782	0.9833	0.9620	0.9805	0.9528	AveI n		0.977 3				1.9		10.0			
PCB-202	0.9147 1.0834	1.0007	1.0393	1.1166	1.0605	AveI n		1.035 9				6.9		10.0			
PCB-167	1.1252 1.1500	1.0891	1.1410	1.1065	1.0835	AveI n		1.115 9				2.4		10.0			
PCB-181	0.9642 0.9727	1.0238	0.8822	0.9386	0.9218	AveI n		0.950 5				5.1		10.0			
PCB-171	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI n		0.933 6				8.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-171/173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-201	0.9271 0.9883	0.9933	0.9517	1.0177	0.9741	AveI D		0.975 4				3.3		10.0			
PCB-156	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-156/157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-204	1.0650 1.0483	1.0488	1.0205	1.0780	1.0306	AveI D		1.048 5				2.0		10.0			
PCB-197	1.2289 1.1291	1.1621	1.0930	1.1741	1.0875	AveI D		1.145 8				4.7		10.0			
PCB-200	0.9228 1.0127	1.0396	1.0401	1.0354	0.9924	AveI D		1.007 2				4.5		10.0			
PCB-172	0.8899 0.8314	0.8689	0.8197	0.8741	0.8273	AveI D		0.851 9				3.4		10.0			
PCB-192	1.2465 1.3882	1.3831	1.3289	1.3991	1.3294	AveI D		1.345 9				4.3		10.0			
PCB-180	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-180/193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-191	1.1859 1.3248	1.3435	1.2644	1.3367	1.2793	AveI D		1.289 1				4.6		10.0			
PCB-170	1.2183 1.1842	1.2101	1.1713	1.2049	1.1303	AveI D		1.186 5				2.7		10.0			
PCB-190	1.3507 1.3369	1.3732	1.3236	1.3336	1.2755	AveI D		1.332 2				2.5		10.0			
PCB-169	1.1960 1.1900	1.1091	1.1548	1.1930	1.1341	AveI D		1.162 8				3.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-198	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-198/199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-196	0.7745 0.7649	0.8087	0.7819	0.7962	0.7576	AveI n		0.780 6				2.5		10.0			
PCB-203	0.9457 0.9311	0.8842	0.9266	0.9632	0.9244	AveI n		0.929 2				2.8		10.0			
PCB-208	1.1091 1.1453	1.1787	1.1650	1.1300	1.0966	AveI n		1.137 4				2.8		10.0			
PCB-195	0.7404 0.8735	0.8795	0.8276	0.8233	0.8136	AveI n		0.826 3				6.1		10.0			
PCB-189	0.9373 1.0020	0.9455	0.9636	0.9788	0.9527	AveI n		0.963 3				2.5		10.0			
PCB-207	1.5361 1.3709	1.3685	1.3439	1.3392	1.2949	AveI n		1.375 6				6.1		10.0			
PCB-194	1.0329 0.9836	0.9991	0.9368	0.9517	0.9369	AveI n		0.973 5				4.0		10.0			
PCB-205	1.0922 1.1256	1.1124	1.0652	1.0742	1.0570	AveI n		1.087 8				2.5		10.0			
PCB-206	1.5800 1.2761	1.3742	1.2635	1.2743	1.2393	AveI n		1.334 6				9.7		10.0			
PCB-209	1.0976 1.1141	1.0962	1.1180	1.1025	1.0739	AveI n		1.100 4				1.4		10.0			
PCB-1L	1.6566 1.5908	1.6089	1.5886	1.6421	1.5780	Ave		1.610 8				2.0		20.0			
PCB-3L	1.5953 1.6239	1.5794	1.5767	1.5834	1.5761	Ave		1.589 1				1.2		20.0			
PCB-4L	0.6664 0.6398	0.6529	0.6327	0.6584	0.6350	Ave		0.647 5				2.1		20.0			
PCB-19L	0.6231 0.6159	0.6466	0.6417	0.6300	0.6140	Ave		0.628 5				2.1		20.0			
PCB-15L	1.0704 1.1315	1.0579	1.0555	1.0650	1.0933	Ave		1.078 9				2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-54L	0.5699 0.5412	0.5686	0.5307	0.5781	0.5489	Ave		0.556 2				3.4		20.0			
PCB-104L	1.2444 1.1444	1.2293	1.2593	1.2347	1.1843	Ave		1.216 1				3.6		20.0			
PCB-37L	0.8651 0.8981	0.8778	0.8586	0.8698	0.8801	Ave		0.874 9				1.6		20.0			
PCB-155L	1.1312 0.9905	1.0966	1.1397	1.1068	1.0459	Ave		1.085 1				5.2		20.0			
PCB-81L	1.2317 1.3290	1.2156	1.2247	1.2302	1.2505	Ave		1.247 0				3.4		20.0			
PCB-77L	1.3180 1.3199	1.2901	1.3060	1.3076	1.3854	Ave		1.321 2				2.5		20.0			
PCB-123L	0.9681 1.0191	0.9224	0.9932	0.9567	0.9795	Ave		0.973 1				3.4		20.0			
PCB-118L	1.0043 1.0158	0.9508	1.0600	1.0164	1.0137	Ave		1.010 2				3.5		20.0			
PCB-114L	0.9805 1.0251	0.9866	1.0002	0.9802	0.9966	Ave		0.994 9				1.7		20.0			
PCB-188L	1.2769 1.3367	1.2959	1.3275	1.3235	1.3195	Ave		1.313 3				1.7		20.0			
PCB-105L	0.9500 0.9623	0.9252	0.9683	0.9499	0.9530	Ave		0.951 4				1.6		20.0			
PCB-126L	0.9296 0.9915	0.8901	0.9531	0.9453	0.9536	Ave		0.943 9				3.5		20.0			
PCB-202L	1.0089 0.9521	1.0043	1.0139	0.9551	0.9566	Ave		0.981 8				3.1		20.0			
PCB-167L	1.2926 1.2203	1.2777	1.2672	1.2630	1.2226	Ave		1.257 2				2.3		20.0			
PCB-156L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-156L/157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-170L	0.8549 0.7912	0.8418	0.8681	0.8351	0.8262	Ave		0.836 2				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-169L	1.3034 1.2180	1.2624	1.2196	1.2352	1.2245	Ave		1.243 9				2.7		20.0			
PCB-208L	0.9436 0.9729	0.9445	0.9572	0.9529	0.9744	Ave		0.957 6				1.4		20.0			
PCB-189L	1.4252 1.4773	1.4471	1.4284	1.4364	1.4341	Ave		1.441 4				1.3		20.0			
PCB-205L	1.1647 1.1799	1.1834	1.1745	1.1892	1.1796	Ave		1.178 6				0.7		20.0			
PCB-206L	0.6918 0.6949	0.6861	0.7012	0.6995	0.6947	Ave		0.694 7				0.8		20.0			
PCB-209L	0.6641 0.6555	0.6610	0.6824	0.6737	0.6647	Ave		0.666 9				1.4		20.0			
PCB-8L			1.3272	1.1709	1.1217	AveI n		1.206 6				8.9		20.0			
PCB-28L			1.2181	0.9873	0.9428	Ave		1.049 4				14.1		20.0			
PCB-95L			0.7435	0.7172	0.7047	AveI n		0.721 8				2.7		20.0			
PCB-79L			1.0367	0.9978	0.9710	AveI n		1.001 8				3.3		20.0			
PCB-111L			1.5745	1.3005	1.2347	Ave		1.369 9				13.2		20.0			
PCB-153L			1.1123	0.8406	0.7979	AveI n		0.916 9				18.6		20.0			
PCB-178L			1.1585	0.9861	0.9494	Ave		1.031 3				10.8		20.0			
PCB-159L	0.4887 0.5115	0.5173	0.5067	0.5265	0.5202	AveI n		0.511 8				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1		AveID	87624 +++++	167653	796059	8260359	68569399	0.500 +++++	1.00	5.00	50.0	400
PCB-2		AveID	82442 353084495	152137	768397	7886042	67117936	0.500 2000	1.00	5.00	50.0	400
PCB-3		AveID	87263 360356023	155451	799957	8044849	67267765	0.500 2000	1.00	5.00	50.0	400
PCB-4		AveID	36374 152709290	71281	337353	3479874	27890333	0.500 2000	1.00	5.00	50.0	400
PCB-10		AveID	48502 219606512	90939	471835	4792674	38655568	0.500 2000	1.00	5.00	50.0	400
PCB-9		AveID	51501 234989711	101769	514126	5083530	42181873	0.500 2000	1.00	5.00	50.0	400
PCB-7		AveID	58157 231331814	99790	476841	4950093	41182455	0.500 2000	1.00	5.00	50.0	400
PCB-6		AveID	62834 255647445	108771	517825	5408103	44979638	0.500 2000	1.00	5.00	50.0	400
PCB-5		AveID	51519 222818417	93073	457479	4844644	40020538	0.500 2000	1.00	5.00	50.0	400
PCB-8		AveID	61977 268244897	108520	552662	5621585	47031816	0.500 2000	1.00	5.00	50.0	400
PCB-19		AveID	27248 94419028	37931	215976	2152324	18011092	0.500 2000	1.00	5.00	50.0	400
PCB-14		AveID	55107 231080321	95706	492912	5066034	41013941	0.500 2000	1.00	5.00	50.0	400
PCB-18		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-18/30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-11		AveID	53494 216275260	83627	452818	4598736	38153224	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-17		AveID	23167 91948427	43052	206164	2122247	17339157	0.500 2000	1.00	5.00	50.0	400
PCB-12		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-12/13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-27		AveID	30334 145107554	61773	310541	3179572	26360662	0.500 2000	1.00	5.00	50.0	400
PCB-24		AveID	30894 131161059	55539	276459	2814319	23939751	0.500 2000	1.00	5.00	50.0	400
PCB-16		AveID	20922 85816817	36402	189210	1959828	16041877	0.500 2000	1.00	5.00	50.0	400
PCB-15		AveID	63884 269724618	113904	552286	5621988	47283812	0.500 2000	1.00	5.00	50.0	400
PCB-54		AveID	17905 84275390	39894	187801	2056772	16256949	0.500 2000	1.00	5.00	50.0	400
PCB-32		AveID	34215 140138189	60227	310058	3076908	25877431	0.500 2000	1.00	5.00	50.0	400
PCB-34		AveID	81792 373345873	145822	741948	7616885	63733574	0.500 2000	1.00	5.00	50.0	400
PCB-23		AveID	78676 352538213	148152	710024	7186368	59373148	0.500 2000	1.00	5.00	50.0	400
PCB-26		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-26/29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-25		AveID	97778 436326451	160869	798213	8444656	71143057	0.500 2000	1.00	5.00	50.0	400
PCB-50		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-50/53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-31		AveID	84854 378421846	160841	744974	7458669	63731167	0.500 2000	1.00	5.00	50.0	400
PCB-20		AveID	163294	298348	1483821	15507992	135356691	1.00	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			842454191					4000				
PCB-20/28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-45		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-45/51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-21		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-21/33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-46		AveID	43592 157969398	65825	340774	3495887	28834506	0.500 2000	1.00	5.00	50.0	400
PCB-22		AveID	87442 398788093	164376	739669	7874512	67196694	0.500 2000	1.00	5.00	50.0	400
PCB-52		AveID	49547 214166805	87733	439829	4723711	38354033	0.500 2000	1.00	5.00	50.0	400
PCB-43		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-43/73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-36		AveID	76826 361500062	150690	731454	7632212	61342563	0.500 2000	1.00	5.00	50.0	400
PCB-49		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-49/69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-39		AveID	81144 394634471	150829	760165	7752224	65934116	0.500 2000	1.00	5.00	50.0	400
PCB-48		AveID	46735 194390518	83950	401794	4096041	34271968	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-104		AveID	34754 148594312	61528	306050	3284431	26991793	0.500 2000	1.00	5.00	50.0	400
PCB-44		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-44/47/65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-47		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-38		AveID	76168 383822577	142649	680342	7153021	61948482	0.500 2000	1.00	5.00	50.0	400
PCB-96		AveID	38490 165718292	63380	338671	3505288	29124757	0.500 2000	1.00	5.00	50.0	400
PCB-59		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-59/62/75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-62		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-42		AveID	43465 186831580	79410	398654	4062353	33116229	0.500 2000	1.00	5.00	50.0	400
PCB-35		AveID	86063 371576451	142742	721094	7562291	65004472	0.500 2000	1.00	5.00	50.0	400
PCB-40		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-40/41/71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-41		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-37		AveID	90285 372528859	148485	723492	7589418	63280259	0.500 2000	1.00	5.00	50.0	400
PCB-64		AveID	68347 268312321	121326	549661	5640018	47066920	0.500 2000	1.00	5.00	50.0	400
PCB-72		AveID	59320 260036448	102800	528848	5513402	45559809	0.500 2000	1.00	5.00	50.0	400
PCB-103		AveID	30305	54610	272723	2810660	23026262	0.500	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			125264432					2000				
PCB-68		AveID	62752 302767134	120639	618865	6342042	52714819	0.500 2000	1.00	5.00	50.0	400
PCB-94		AveID	27753 104404112	50670	243354	2353932	19293687	0.500 2000	1.00	5.00	50.0	400
PCB-57		AveID	54918 259652587	107838	515271	5445573	45493698	0.500 2000	1.00	5.00	50.0	400
PCB-95		AveID	28089 115750524	48155	247318	2613771	21743452	0.500 2000	1.00	5.00	50.0	400
PCB-58		AveID	68587 332927040	117702	638910	6808166	56416890	0.500 2000	1.00	5.00	50.0	400
PCB-100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93/100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-67		AveID	79670 349063048	136003	662955	6875936	58816773	0.500 2000	1.00	5.00	50.0	400
PCB-102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98/102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-63		AveID	60720 261710211	113672	544766	5498511	45663130	0.500 2000	1.00	5.00	50.0	400
PCB-88		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-88/91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-61		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-61/70/74/76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-70		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-74		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-84		AveID	25161 101701980	49178	225737	2297413	18942616	0.500 2000	1.00	5.00	50.0	400
PCB-66		AveID	66199 306877309	119065	600993	6312222	52981003	0.500 2000	1.00	5.00	50.0	400
PCB-55		AveID	77673 318274904	119512	630084	6483526	54230284	0.500 2000	1.00	5.00	50.0	400
PCB-89		AveID	30940 106371354	46581	245536	2424086	19980724	0.500 2000	1.00	5.00	50.0	400
PCB-56		AveID	74659 290239949	112603	577077	6041547	50251634	0.500 2000	1.00	5.00	50.0	400
PCB-121		AveID	43439 189494866	82240	406765	4144482	34064929	0.500 2000	1.00	5.00	50.0	400
PCB-60		AveID	60472 262262219	120369	510799	5475280	45739750	0.500 2000	1.00	5.00	50.0	400
PCB-92		AveID	29937 119034801	56541	260863	2724348	22258079	0.500 2000	1.00	5.00	50.0	400
PCB-80		AveID	74270 317715187	128092	618593	6451950	54703996	0.500 2000	1.00	5.00	50.0	400
PCB-155		AveID	28040 117062772	53749	269852	2757196	22251730	0.500 2000	1.00	5.00	50.0	400
PCB-152		AveID	31058 127316142	55399	280445	2752865	22836429	0.500 2000	1.00	5.00	50.0	400
PCB-101		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90/101/113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-150		AveID	30371 127390982	56112	292889	2933125	23890856	0.500 2000	1.00	5.00	50.0	400
PCB-136		AveID	33387 128715901	55716	270798	2858801	23743749	0.500 2000	1.00	5.00	50.0	400
PCB-83		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-83/99		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-99		AveID	57832	101299	528892	5527064	44113984	1.00	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			241281713					4000				
PCB-112		AveID	50114 200578005	92894	437482	4359398	36244741	0.500 2000	1.00	5.00	50.0	400
PCB-145		AveID	31426 121971700	51222	275033	2773933	22672411	0.500 2000	1.00	5.00	50.0	400
PCB-109		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-119		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86/87/97/109/119/125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-87		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-97		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-79		AveID	77395 354295498	147654	655831	6861599	58766091	0.500 2000	1.00	5.00	50.0	400
PCB-78		AveID	70824 259722209	115640	551876	5506314	46136888	0.500 2000	1.00	5.00	50.0	400
PCB-116		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85/116/117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-110		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-110/115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-81		AveID	57961 246419766	102785	499582	5214743	42731408	0.500 2000	1.00	5.00	50.0	400
PCB-82		AveID	28943 118090307	52864	257633	2659391	21705824	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-148		AveID	24113 97145990	40368	215061	2176255	17957394	0.500 2000	1.00	5.00	50.0	400
PCB-77		AveID	64742 254122136	110963	520129	5446719	45244571	0.500 2000	1.00	5.00	50.0	400
PCB-111		AveID	40194 172673938	83431	366927	3825096	31849869	0.500 2000	1.00	5.00	50.0	400
PCB-135		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-135/151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-120		AveID	53063 217057638	91670	446498	4697232	38221427	0.500 2000	1.00	5.00	50.0	400
PCB-154		AveID	23372 103679991	46790	228222	2371495	19278459	0.500 2000	1.00	5.00	50.0	400
PCB-144		AveID	26036 96362038	43641	217725	2232331	18139372	0.500 2000	1.00	5.00	50.0	400
PCB-147		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-147/149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-134		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-134/143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-108		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-108/124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-139		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-139/140		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-140		AveID	77045	141796	673528	7038694	59038438	1.00	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			349280537					4000				
PCB-107		AveID	66807 280088284	102545	576281	5897415	48169388	0.500 2000	1.00	5.00	50.0	400
PCB-131		AveID	++++ 145204904	60287	289665	3018928	25806641	++++ 2000	1.00	5.00	50.0	400
PCB-123		AveID	56282 259083255	103937	444649	5033992	43726655	0.500 2000	1.00	5.00	50.0	400
PCB-106		AveID	57304 259205947	96794	501472	5140106	43503164	0.500 2000	1.00	5.00	50.0	400
PCB-142		AveID	31461 147452709	58658	301166	3115155	25727292	0.500 2000	1.00	5.00	50.0	400
PCB-118		AveID	65547 282900049	118026	579609	6016008	49487841	0.500 2000	1.00	5.00	50.0	400
PCB-132		AveID	36598 134732483	59523	300578	2979191	24603976	0.500 2000	1.00	5.00	50.0	400
PCB-122		AveID	49485 217083178	94688	416752	4709445	38072113	0.500 2000	1.00	5.00	50.0	400
PCB-114		AveID	55723 259907186	107408	496695	5307527	44610183	0.500 2000	1.00	5.00	50.0	400
PCB-188		AveID	39693 172058230	77076	379875	3706640	30886057	0.500 2000	1.00	5.00	50.0	400
PCB-133		AveID	32377 147730024	71556	328133	3245992	28247093	0.500 2000	1.00	5.00	50.0	400
PCB-179		AveID	46777 169294763	77102	381743	3733944	31130650	0.500 2000	1.00	5.00	50.0	400
PCB-165		AveID	42251 191105968	89004	408419	4186901	34588489	0.500 2000	1.00	5.00	50.0	400
PCB-105		AveID	65478 263476320	107441	513401	5526391	45872125	0.500 2000	1.00	5.00	50.0	400
PCB-146		AveID	42036 183787905	80078	378659	3845405	32748351	0.500 2000	1.00	5.00	50.0	400
PCB-184		AveID	38134 173580025	74149	370448	3714498	31018294	0.500 2000	1.00	5.00	50.0	400
PCB-161		AveID	46946 217946430	95121	438810	4666072	38113824	0.500 2000	1.00	5.00	50.0	400
PCB-176		AveID	40584 147820845	62562	331851	3337458	27007633	0.500 2000	1.00	5.00	50.0	400
PCB-153		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-153/168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-141		AveID	41664 155876662	74724	338462	3461353	29064533	0.500 2000	1.00	5.00	50.0	400
PCB-186		AveID	44732 183358035	75669	394382	4051516	33163682	0.500 2000	1.00	5.00	50.0	400
PCB-130		AveID	32146 126435560	59703	279233	2838645	23530162	0.500 2000	1.00	5.00	50.0	400
PCB-127		AveID	57517 264011122	108872	505934	5642766	46076121	0.500 2000	1.00	5.00	50.0	400
PCB-137		AveID	33182 145652162	61626	318450	3298456	25797296	0.500 2000	1.00	5.00	50.0	400
PCB-164		AveID	46464 196637037	83907	400805	4200180	35754648	0.500 2000	1.00	5.00	50.0	400
PCB-129		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-129/138/160/163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-138		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-160		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-158		AveID	60291 240225815	109591	509962	5319521	43420955	0.500 2000	1.00	5.00	50.0	400
PCB-178		AveID	25284 108531079	49156	246629	2440485	20314842	0.500 2000	1.00	5.00	50.0	400
PCB-175		AveID	30945 114534847	50193	246187	2569891	21220414	0.500 2000	1.00	5.00	50.0	400
PCB-126		AveID	49570 256982981	95794	483239	5411840	44661015	0.500 2000	1.00	5.00	50.0	400
PCB-128		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-128/166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-187		AveID	31052 135710155	60936	296377	3023234	24989319	0.500 2000	1.00	5.00	50.0	400
PCB-182		AveID	24644	48192	263009	2647036	21292850	0.500	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			113333574					2000				
PCB-183		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-183/185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-174		AveID	30210 120778067	46390	258926	2681848	21783169	0.500 2000	1.00	5.00	50.0	400
PCB-159		AveID	58381 268867618	114847	558064	5578541	46357455	0.500 2000	1.00	5.00	50.0	400
PCB-162		AveID	55301 227875192	106735	513669	5046359	41684795	0.500 2000	1.00	5.00	50.0	400
PCB-177		AveID	29904 115865581	53407	265089	2633576	21710754	0.500 2000	1.00	5.00	50.0	400
PCB-202		AveID	25714 114836205	51069	264468	2654251	21547219	0.500 2000	1.00	5.00	50.0	400
PCB-167		AveID	51226 213807712	90866	464967	4608166	37916934	0.500 2000	1.00	5.00	50.0	400
PCB-181		AveID	28637 115218365	55606	243089	2521026	21004998	0.500 2000	1.00	5.00	50.0	400
PCB-171		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-171/173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-201		AveID	26064 104750814	50692	242194	2419114	19791616	0.500 2000	1.00	5.00	50.0	400
PCB-156		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-156/157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-204		AveID	29939 111110035	53523	259683	2562540	20940493	0.500 2000	1.00	5.00	50.0	400
PCB-197		AveID	34548 119677701	59307	278144	2790933	22095397	0.500 2000	1.00	5.00	50.0	400
PCB-200		AveID	25941 107343183	53055	264690	2461217	20163621	0.500 2000	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-172		AveID	26430 98480427	47193	225866	2347963	18849904	0.500 2000	1.00	5.00	50.0	400
PCB-192		AveID	37024 164428936	75123	366181	3758142	30290999	0.500 2000	1.00	5.00	50.0	400
PCB-180		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-180/193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-191		AveID	35223 156918655	72972	348406	3590548	29149341	0.500 2000	1.00	5.00	50.0	400
PCB-170		AveID	29022 104308327	51767	255223	2504084	19833085	0.500 2000	1.00	5.00	50.0	400
PCB-190		AveID	40117 158352425	74583	364710	3582145	29063711	0.500 2000	1.00	5.00	50.0	400
PCB-169		AveID	54907 220826313	91425	452938	4858941	39746833	0.500 2000	1.00	5.00	50.0	400
PCB-198		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-198/199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-196		AveID	21772 81076975	41271	198979	1892682	15393419	0.500 2000	1.00	5.00	50.0	400
PCB-203		AveID	26586 98693847	45126	235807	2289580	18781869	0.500 2000	1.00	5.00	50.0	400
PCB-208		AveID	41595 166655336	79659	399575	3774592	31300386	0.500 2000	1.00	5.00	50.0	400
PCB-195		AveID	34279 154147844	74468	348250	3431947	28114967	0.500 2000	1.00	5.00	50.0	400
PCB-189		AveID	53094 221399680	97896	493179	4928731	40021622	0.500 2000	1.00	5.00	50.0	400
PCB-207		AveID	49926 170983014	79832	399296	3878521	31656277	0.500 2000	1.00	5.00	50.0	400
PCB-194		AveID	47820 173567729	84593	394237	3967420	32373452	0.500 2000	1.00	5.00	50.0	400
PCB-205		AveID	50563 198631608	94183	448246	4478090	36524269	0.500 2000	1.00	5.00	50.0	400
PCB-206		AveID	43449	67457	317426	3124562	25218974	0.500	1.00	5.00	50.0	400

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			132627452					2000				
PCB-209		AveID	28972 109226464	51840	273346	2603740	20909699	0.500 2000	1.00	5.00	50.0	400
PCB-1L	PCB9L	Ave	14676977 14103562	13411930	13253788	13654287	13820437	100 100	100	100	100	100
PCB-3L	PCB9L	Ave	14134368 14397062	13166477	13154993	13165806	13803706	100 100	100	100	100	100
PCB-4L	PCB9L	Ave	5904521 5672202	5442766	5279032	5474214	5561618	100 100	100	100	100	100
PCB-19L	PCB32 L	Ave	3711790 3634856	3424036	3389482	3406868	3537933	100 100	100	100	100	100
PCB-15L	PCB9L	Ave	9483770 10031243	8819361	8806182	8855244	9575202	100 100	100	100	100	100
PCB-54L	PCB32 L	Ave	3394991 3193810	3010951	2803421	3125781	3162909	100 100	100	100	100	100
PCB-104L	PCB10 1L	Ave	6938320 6975966	6240748	6307301	6455349	6672003	100 100	100	100	100	100
PCB-37L	PCB31 L	Ave	14507892 15552321	13255798	13114910	13535671	14730805	100 100	100	100	100	100
PCB-155L	PCB10 1L	Ave	6307321 6037909	5566942	5708638	5786925	5892178	100 100	100	100	100	100
PCB-81L	PCB52 L	Ave	10352263 11264701	9378026	9411321	9689577	10335461	100 100	100	100	100	100
PCB-77L	PCB52 L	Ave	11078136 11187391	9952597	10036639	10298891	11450569	100 100	100	100	100	100
PCB-123L	PCB12 7L	Ave	10371480 11406816	9073751	9321962	9501201	10377703	100 100	100	100	100	100
PCB-118L	PCB12 7L	Ave	10759990 11370905	9353232	9948185	10094764	10740248	100 100	100	100	100	100
PCB-114L	PCB12 7L	Ave	10504311 11474644	9705413	9387618	9734953	10559524	100 100	100	100	100	100
PCB-188L	PCB18 0L	Ave	7116082	6585200	6664037	6587579	7006215	100	100	100	100	100

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			7440630					100				
PCB-105L	PCB12 7L	Ave	10177357	9101468	9087875	9433900	10096861	100	100	100	100	100
			10771838					100				
PCB-126L	PCB12 7L	Ave	9958778	8756063	8945635	9388684	10103302	100	100	100	100	100
			11098540					100				
PCB-202L	PCB18 0L	Ave	5622444	5103331	5089577	4754288	5079458	100	100	100	100	100
			5299657					100				
PCB-167L	PCB13 8L	Ave	9105316	8343026	8150383	8329121	8748546	100	100	100	100	100
			9296213					100				
PCB-156L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-156L/157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-170L	PCB18 0L	Ave	4764508	4277780	4357834	4156589	4386822	100	100	100	100	100
			4404173					100				
PCB-169L	PCB13 8L	Ave	9181390	8243482	7844285	8145884	8761705	100	100	100	100	100
			9278382					100				
PCB-208L	PCB19 4L	Ave	7500908	6757986	6859651	6680775	7135804	100	100	100	100	100
			7275684					100				
PCB-189L	PCB19 4L	Ave	11329298	10353644	10235768	10070777	10502203	100	100	100	100	100
			11047526					100				
PCB-205L	PCB19 4L	Ave	9259085	8466946	8416261	8337493	8638618	100	100	100	100	100
			8823289					100				
PCB-206L	PCB19 4L	Ave	5499727	4908757	5024711	4903942	5087280	100	100	100	100	100
			5196483					100				
PCB-209L	PCB19 4L	Ave	5278978	4729024	4889751	4723291	4867564	100	100	100	100	100
			4902169					100				

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-8L		AveID			467355	4194596	33958319			5.00	50.0	400
PCB-28L	PCB31 L	Ave			930321	7682166	63120528			5.00	50.0	400
PCB-95L		AveID			234474	2314965	18806941			5.00	50.0	400
PCB-79L		AveID			504032	4986068	42309500			5.00	50.0	400
PCB-111L	PCB10 1L	Ave			394315	3399701	27823366			5.00	50.0	400
PCB-153L		AveID			444756	3417541	27374804			5.00	50.0	400
PCB-178L	PCB18 0L	Ave			290779	2454141	20165082			5.00	50.0	400
PCB-159L		AveID	7935499 8428474	7665555	7301154	7786628	8051959	100 100	100	100	100	100

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130

SDG No.: _____

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-1	-2.1	2.5	-1.5	-0.8	1.7	+++++	50	30	30	30	30	
PCB-2	-3.0	-3.0	-1.4	-0.4	2.9	4.9	50	30	30	30	30	30
PCB-3	1.2	-3.3	-0.4	0.1	-0.2	2.5	50	30	30	30	30	30
PCB-4	-3.9	2.2	-0.3	-0.8	-2.2	5.0	50	30	30	30	30	30
PCB-10	-4.1	-3.0	1.9	1.7	-2.9	6.4	50	30	30	30	30	30
PCB-9	-5.9	0.3	2.6	-0.2	-2.0	5.2	50	30	30	30	30	30
PCB-7	7.0	-10.0	-4.2	-2.2	-3.8	4.2	50	30	30	30	30	30
PCB-6	5.9	-11.2	-4.6	-2.1	-3.7	5.6	50	30	30	30	30	30
PCB-5	0.0	-2.6	-3.0	1.0	-1.3	5.9	50	30	30	30	30	30
PCB-8	1.4	-4.2	-1.2	-1.2	-2.2	7.5	50	30	30	30	30	30
PCB-19	14.6	-13.5	-0.5	-1.4	-0.6	1.4	50	30	30	30	30	30
PCB-14	2.1	-4.3	-0.2	0.8	-3.4	4.9	50	30	30	30	30	30
PCB-18	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-18/30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-11	7.4	-18.0	-0.7	-0.9	-2.7	6.3	50	30	30	30	30	30
PCB-17	0.4	1.2	-2.1	0.2	-1.4	1.8	50	30	30	30	30	30
PCB-12	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-12/13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-27	-19.4	-1.6	0.0	1.8	1.6	8.9	50	30	30	30	30	30
PCB-24	-8.9	-3.3	-2.8	-1.5	0.8	7.5	50	30	30	30	30	30
PCB-16	-0.1	-16.0	-1.1	1.9	0.4	4.6	50	30	30	30	30	30
PCB-15	4.4	0.1	-2.8	-1.6	-4.3	4.2	50	30	30	30	30	30
PCB-54	-17.2	4.1	5.2	3.4	0.9	3.6	50	30	30	30	30	30
PCB-32	0.6	-4.0	-0.2	-1.4	-0.2	5.2	50	30	30	30	30	30
PCB-34	0.0	-2.5	0.3	-0.2	-4.1	6.4	50	30	30	30	30	30
PCB-23	-7.6	3.4	0.1	-1.8	-6.8	4.8	50	30	30	30	30	30
PCB-26	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-26/29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-25	5.9	-4.7	-4.4	-2.0	-5.1	10.2	50	30	30	30	30	30
PCB-50	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-50/53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-31	1.4	5.2	-1.5	-4.4	-6.2	5.5	50	30	30	30	30	30
PCB-20	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-20/28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-45	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-45/51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-21	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-21/33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-46	14.6	-4.1	-1.3	-1.5	-6.8	-0.9	50	30	30	30	30	30
PCB-22	1.0	3.9	-5.5	-2.5	-4.4	7.4	50	30	30	30	30	30
PCB-52	-8.0	-1.3	-1.6	2.8	-4.3	3.7	50	30	30	30	30	30
PCB-43	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-43/73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-36	-4.3	2.7	0.8	1.9	-6.0	5.0	50	30	30	30	30	30
PCB-49	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-49/69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-39	-3.4	-1.8	0.1	-1.1	-3.4	9.5	50	30	30	30	30	30
PCB-48	3.9	3.4	-1.6	-2.4	-6.3	3.1	50	30	30	30	30	30
PCB-104	-0.7	-2.3	-3.8	0.9	0.3	5.6	50	30	30	30	30	30
PCB-44	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-44/47/65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-47	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-38	-3.2	-0.8	-4.3	-2.5	-3.0	13.8	50	30	30	30	30	30
PCB-96	1.4	-7.2	-1.8	-0.7	-0.2	8.6	50	30	30	30	30	30
PCB-59	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-59/62/75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-62	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-42	0.2	1.5	1.3	0.4	-6.1	2.8	50	30	30	30	30	30
PCB-35	5.0	-4.7	-2.7	-1.1	-2.3	5.7	50	30	30	30	30	30
PCB-40	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-40/41/71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-41	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-37	8.8	-2.0	-3.5	-1.9	-6.1	4.7	50	30	30	30	30	30
PCB-64	-9.3	6.6	-4.0	-4.2	-8.3	1.5	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-72	1.2	-2.8	-0.6	0.8	-4.4	5.8	50	30	30	30	30	30
PCB-103	-0.1	0.1	-1.1	-0.4	-1.3	2.7	50	30	30	30	30	30
PCB-68	-6.5	-0.4	1.6	1.3	-3.5	7.6	50	30	30	30	30	30
PCB-94	-12.9	6.3	1.0	-4.5	-5.4	-2.1	50	30	30	30	30	30
PCB-57	-5.2	3.1	-2.0	0.7	-3.5	6.9	50	30	30	30	30	30
PCB-95	-12.1	-12.7	-2.4	0.8	1.4	3.3	50	30	30	30	30	30
PCB-58	-14.4	-8.1	-0.8	2.8	-2.3	11.9	50	30	30	30	30	30
PCB-100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93/100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-67	4.5	-1.1	-4.2	-3.3	-5.1	9.3	50	30	30	30	30	30
PCB-102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98/102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-63	0.8	4.6	-0.3	-2.1	-6.8	3.7	50	30	30	30	30	30
PCB-88	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-88/91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-61	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-61/70/74/76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-70	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-74	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-84	-0.6	8.0	-1.9	-2.5	-2.8	-0.1	50	30	30	30	30	30
PCB-66	-1.8	-9.8	-1.8	0.4	-3.4	8.6	50	30	30	30	30	30
PCB-55	9.5	-6.6	-2.1	-2.0	-6.0	7.1	50	30	30	30	30	30
PCB-89	2.0	-12.7	-0.2	-3.7	-4.0	-2.2	50	30	30	30	30	30
PCB-56	13.0	-5.5	-3.8	-2.0	-6.5	4.8	50	30	30	30	30	30
PCB-121	-10.9	1.6	-0.5	-1.0	-1.5	4.8	50	30	30	30	30	30
PCB-60	0.5	10.9	-6.5	-2.4	-6.5	4.0	50	30	30	30	30	30
PCB-92	1.0	6.0	-3.2	-1.2	-2.4	-0.2	50	30	30	30	30	30
PCB-80	4.7	0.1	-3.9	-2.5	-5.2	6.9	50	30	30	30	30	30
PCB-155	-5.9	2.2	0.1	0.9	0.0	2.6	50	30	30	30	30	30
PCB-152	-0.5	-9.6	-0.7	-3.9	-2.1	6.5	50	30	30	30	30	30
PCB-101	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90/101/113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-150	-5.0	-0.5	1.3	0.0	0.0	4.1	50	30	30	30	30	30
PCB-136	4.7	-1.1	-6.2	-2.3	-0.4	5.4	50	30	30	30	30	30
PCB-83	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-83/99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-112	2.4	-2.7	-1.7	-4.3	-3.8	1.9	50	30	30	30	30	30
PCB-145	2.9	-5.0	-0.5	-1.0	-0.7	4.3	50	30	30	30	30	30
PCB-109	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-119	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86/87/97/109/119/125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-87	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-97	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-79	0.5	6.3	-6.1	-4.4	-6.1	9.8	50	30	30	30	30	30
PCB-78	13.8	3.0	-2.3	-5.2	-8.9	-0.4	50	30	30	30	30	30
PCB-116	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85/116/117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-110	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-110/115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-81	3.7	1.5	-1.7	-0.4	-4.3	1.3	50	30	30	30	30	30
PCB-82	0.5	2.0	-1.6	-0.8	-2.0	1.9	50	30	30	30	30	30
PCB-148	0.6	-4.6	-0.9	-1.1	0.2	5.8	50	30	30	30	30	30
PCB-77	7.9	2.9	-4.3	-2.4	-8.8	4.8	50	30	30	30	30	30
PCB-111	-4.4	10.3	-4.0	-2.3	-1.6	2.1	50	30	30	30	30	30
PCB-135	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-135/151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-120	3.6	-0.5	-4.1	-1.4	-3.0	5.4	50	30	30	30	30	30
PCB-154	-8.8	-6.9	-1.6	0.8	0.6	5.6	50	30	30	30	30	30
PCB-144	5.1	-11.4	-2.9	-1.7	-2.0	1.6	50	30	30	30	30	30
PCB-147	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-147/149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-134	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-134/143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-108	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-108/124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-139	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-139/140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-107	6.5	-16.3	1.8	1.0	-4.2	2.9	50	30	30	30	30	30
PCB-131	+++++	-1.6	-3.5	-1.0	0.3	5.8		50	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-123	1.2	6.8	-11.0	-1.2	-1.8	5.9	50	30	30	30	30	30
PCB-106	2.1	-2.9	-0.9	-1.5	-3.3	6.5	50	30	30	30	30	30
PCB-142	-5.4	-4.3	0.3	2.1	-0.1	7.4	50	30	30	30	30	30
PCB-118	1.1	4.7	-3.3	-1.1	-4.4	3.2	50	30	30	30	30	30
PCB-132	10.3	-2.7	0.4	-2.2	-4.2	-1.6	50	30	30	30	30	30
PCB-122	-0.1	7.6	-6.7	2.2	-4.1	1.1	50	30	30	30	30	30
PCB-114	-2.1	2.1	-2.4	0.6	-2.6	4.5	50	30	30	30	30	30
PCB-188	-1.7	3.1	0.5	-0.8	-2.9	1.9	50	30	30	30	30	30
PCB-133	-9.7	-1.2	1.4	-1.4	1.7	-0.2	50	30	30	30	30	30
PCB-179	10.3	-0.6	-3.0	-2.6	-4.3	0.1	50	30	30	30	30	30
PCB-165	-6.9	6.4	-0.3	0.5	-1.6	2.0	50	30	30	30	30	30
PCB-105	8.3	-0.6	-4.9	-1.4	-4.4	3.0	50	30	30	30	30	30
PCB-146	-1.5	-6.5	-1.7	-1.8	-0.9	4.3	50	30	30	30	30	30
PCB-184	-6.1	-0.1	-1.7	1.1	-0.4	7.2	50	30	30	30	30	30
PCB-161	-6.1	3.2	-2.8	1.7	-1.6	5.6	50	30	30	30	30	30
PCB-176	10.8	-6.6	-2.3	0.8	-3.9	1.2	50	30	30	30	30	30
PCB-153	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-153/168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-141	-7.8	4.5	-3.3	-2.8	-3.2	-2.7	50	30	30	30	30	30
PCB-186	2.2	-5.5	-2.9	2.4	-1.2	5.0	50	30	30	30	30	30
PCB-130	2.9	3.7	-1.0	-1.0	-2.7	-2.0	50	30	30	30	30	30
PCB-127	-2.5	3.9	-4.9	2.8	-2.6	3.2	50	30	30	30	30	30
PCB-137	-3.5	-12.8	2.5	4.5	-3.2	2.5	50	30	30	30	30	30
PCB-164	-13.8	-13.5	-3.5	-0.5	0.4	3.6	50	30	30	30	30	30
PCB-129	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-129/138/160/163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-138	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-160	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-158	3.8	2.4	-2.7	-0.2	-3.5	0.2	50	30	30	30	30	30
PCB-178	-4.8	1.2	0.0	1.6	-0.3	2.4	50	30	30	30	30	30
PCB-175	9.4	-12.1	-6.2	0.5	-2.2	1.5	50	30	30	30	30	30
PCB-126	-9.3	-0.3	-1.6	5.0	0.7	5.5	50	30	30	30	30	30
PCB-128	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-128/166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-187	-13.1	1.8	-2.4	2.2	-0.5	4.0	50	30	30	30	30	30
PCB-182	-10.3	-4.0	3.2	6.6	1.1	3.5	50	30	30	30	30	30
PCB-183	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-183/185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-174	5.5	-18.6	-2.5	3.6	-0.8	5.8	50	30	30	30	30	30

FORM VI
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-37232-1 Analy Batch No.: 87130
SDG No.: _____
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-159	-4.9	1.5	0.7	-1.0	-2.5	6.1	50	30	30	30	30	30
PCB-162	-0.7	4.0	2.2	-1.3	-3.3	-0.9	50	30	30	30	30	30
PCB-177	-14.5	0.6	-1.6	0.3	-2.5	0.1	50	30	30	30	30	30
PCB-202	-11.7	-3.4	0.3	7.8	2.4	4.6	50	30	30	30	30	30
PCB-167	0.8	-2.4	2.2	-0.8	-2.9	3.1	50	30	30	30	30	30
PCB-181	-9.2	7.7	-7.2	-1.3	-3.0	2.3	50	30	30	30	30	30
PCB-171	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-171/173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-201	-4.9	-5.1	-2.4	4.3	-0.1	1.3	50	30	30	30	30	30
PCB-156	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-156/157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-204	1.6	-6.8	-2.7	2.8	-1.7	0.0	50	30	30	30	30	30
PCB-197	-0.8	-5.9	-4.6	2.5	-5.1	-1.5	50	30	30	30	30	30
PCB-200	-8.4	-16.3	3.3	2.8	-1.5	0.6	50	30	30	30	30	30
PCB-172	4.5	2.0	-3.8	2.6	-2.9	-2.4	50	30	30	30	30	30
PCB-192	-7.4	2.8	-1.3	4.0	-1.2	3.1	50	30	30	30	30	30
PCB-180	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-180/193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-191	-8.0	4.2	-1.9	3.7	-0.8	2.8	50	30	30	30	30	30
PCB-170	-8.9	2.0	-1.3	1.5	-4.7	-0.2	50	30	30	30	30	30
PCB-190	1.4	3.1	-0.6	0.1	-4.3	0.3	50	30	30	30	30	30
PCB-169	2.9	-4.6	-0.7	2.6	-2.5	2.3	50	30	30	30	30	30
PCB-198	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-198/199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-196	-0.8	3.6	0.2	2.0	-2.9	-2.0	50	30	30	30	30	30
PCB-203	1.8	-4.8	-0.3	3.7	-0.5	0.2	50	30	30	30	30	30
PCB-208	-2.5	3.6	2.4	-0.7	-3.6	0.7	50	30	30	30	30	30
PCB-195	-18.4	6.4	0.2	-0.4	-1.5	5.7	50	30	30	30	30	30
PCB-189	-2.7	-1.8	0.0	1.6	-1.1	4.0	50	30	30	30	30	30
PCB-207	11.7	-0.5	-2.3	-2.6	-5.9	-0.3	50	30	30	30	30	30
PCB-194	6.1	2.6	-3.8	-2.2	-3.8	1.0	50	30	30	30	30	30
PCB-205	0.4	2.3	-2.1	-1.2	-2.8	3.5	50	30	30	30	30	30
PCB-206	18.4	3.0	-5.3	-4.5	-7.1	-4.4	50	30	30	30	30	30
PCB-209	-0.3	-0.4	1.6	0.2	-2.4	1.2	50	30	30	30	30	30
PCB-8L			10.0	-3.0	-7.0				50	30	30	
PCB-95L			3.0	-0.6	-2.4				50	30	30	
PCB-79L			3.5	-0.4	-3.1				50	30	30	
PCB-153L			21.3	-8.3	-13.0				50	30	30	
PCB-159L	-4.5	1.1	-1.0	2.9	1.6	-0.1	50	30	30	30	30	30

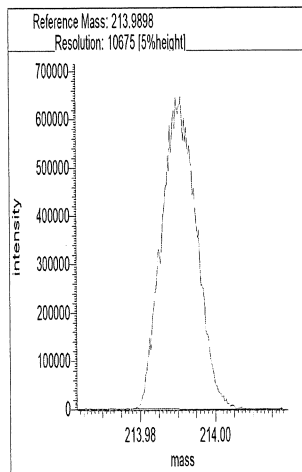
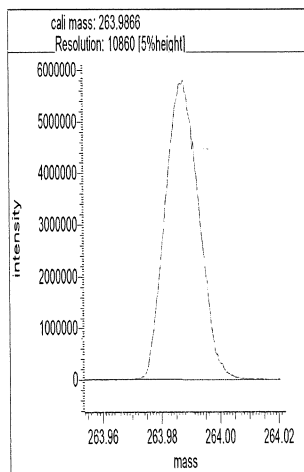
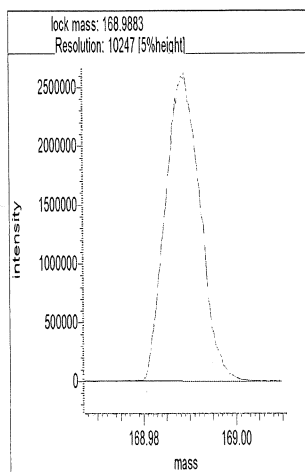
Resolution Check Report (DFS SN: 3190)

Date: 31 May 2024 12:51
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

d2240531ir2

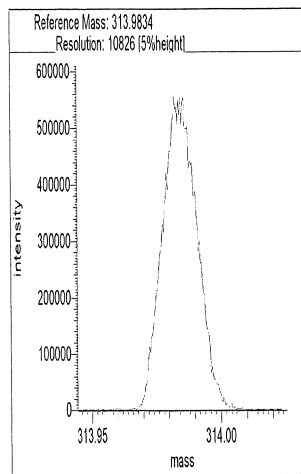
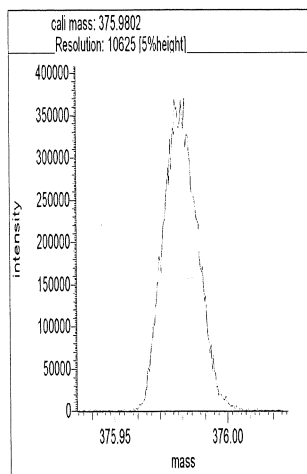
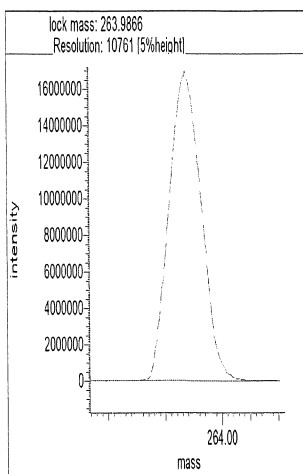
Segment 1

Lock mass 168.9883 [m/z] Resolution: 10247 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 10860 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 10675 [5%height]



Segment 2

Lock mass 263.9866 [m/z] Resolution: 10761 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 10625 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 10826 [5%height]

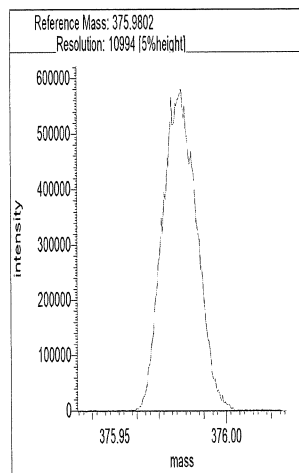
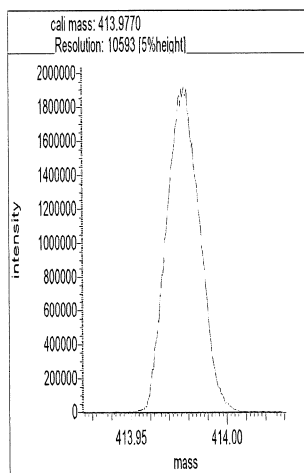
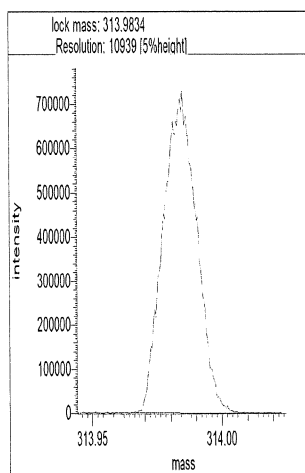


Segment 3

Lock mass 313.9834 [m/z] Resolution: 10939 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10593 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10994 [5%height]

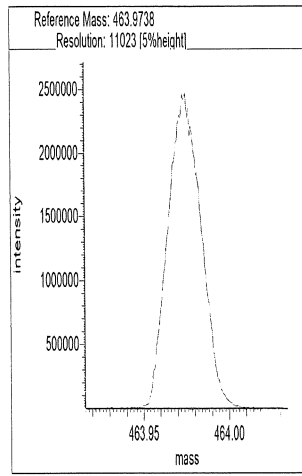
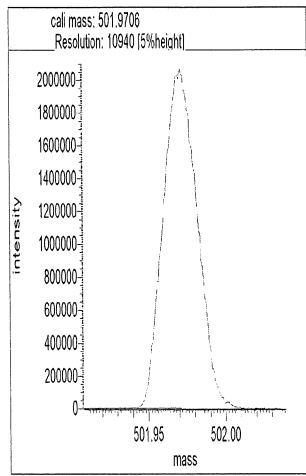
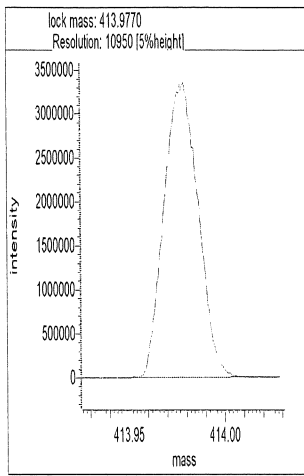


Segment 4

Lock mass 413.9770 [m/z] Resolution: 10950 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 10940 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11023 [5%height]



Reports

13:00:30: Peak matching procedure started
13:00:31:
13:00:31: Reference mass: 168.98827
13:00:32: Sample mass: 214.0
13:00:32:
13:00:33: Finding reference mass
13:00:34: Finding sample mass
13:00:34:
13:00:40: [1] 213.9900 amu, mean: 213.9900
13:00:43: [2] 213.9900 amu, mean: 213.9900 SD: 0.01 mmu or: 0.03 ppm
13:00:47: [3] 213.9898 amu, mean: 213.9900 SD: 0.14 mmu or: 0.63 ppm
13:00:50: [4] 213.9899 amu, mean: 213.9899 SD: 0.12 mmu or: 0.57 ppm
13:00:50:
13:00:50: Stop requested. Please wait for procedure to finish.
13:00:50:
13:00:53:
13:00:53: Peakmatching stopped

Signature

BKK 5/31/24

Reports

13:01:15: Peak matching procedure started
13:01:16:
13:01:16: Reference mass: 213.98975
13:01:17: Sample mass: 264.0
13:01:17:
13:01:18: Finding reference mass
13:01:19: Finding sample mass
13:01:19:
13:01:25: [1] 263.9865 amu, mean: 263.9865
13:01:28: [2] 263.9863 amu, mean: 263.9864 SD: 0.16 mmu or: 0.60 ppm
13:01:31: [3] 263.9862 amu, mean: 263.9863 SD: 0.17 mmu or: 0.63 ppm
13:01:34: [4] 263.9871 amu, mean: 263.9865 SD: 0.39 mmu or: 1.46 ppm
13:01:35:
13:01:35: Stop requested. Please wait for procedure to finish.
13:01:35:
13:01:38:
13:01:38: Peakmatching stopped

Signature

BK 5/31/24

Reports

13:01:52: Peak matching procedure started
13:01:52:
13:01:53: Reference mass: 263.98656
13:01:53: Sample mass: 314.0
13:01:54:
13:01:54: Finding reference mass
13:01:55: Finding sample mass
13:01:56:
13:02:02: [1] 313.9842 amu, mean: 313.9842
13:02:05: [2] 313.9836 amu, mean: 313.9839 SD: 0.43 mmu or: 1.38 ppm
13:02:08: [3] 313.9844 amu, mean: 313.9841 SD: 0.42 mmu or: 1.35 ppm
13:02:11: [4] 313.9843 amu, mean: 313.9841 SD: 0.36 mmu or: 1.16 ppm
13:02:12:
13:02:12: Stop requested. Please wait for procedure to finish.
13:02:12:
13:02:14:
13:02:15: Peakmatching stopped

Signature

BKK 5/31/24

Reports

13:02:51: Peak matching procedure started
13:02:52:
13:02:52: Reference mass: 313.98336
13:02:53: Sample mass: 376.0
13:02:53:
13:02:54: Finding reference mass
13:02:55: Finding sample mass
13:02:56:
13:03:01: [1] 375.9809 amu, mean: 375.9809
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm
13:03:11:
13:03:11: Stop requested. Please wait for procedure to finish.
13:03:11:
13:03:14:
13:03:14: Peakmatching stopped

Signature

BKV 5/31/24

Reports

13:02:51: Peak matching procedure started
13:02:52:
13:02:52: Reference mass: 313.98336
13:02:53: Sample mass: 376.0
13:02:53:
13:02:54: Finding reference mass
13:02:55: Finding sample mass
13:02:56:
13:03:01: [1] 375.9809 amu, mean: 375.9809
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm
13:03:11:
13:03:11: Stop requested. Please wait for procedure to finish.
13:03:11:
13:03:14:
13:03:14: Peakmatching stopped

Signature

BLK 5/31/24

Reports

13:03:30: Peak matching procedure started
13:03:31:
13:03:31: Reference mass: 375.98017
13:03:32: Sample mass: 414.0
13:03:32:
13:03:33: Finding reference mass
13:03:34: Finding sample mass
13:03:34:
13:03:40: [1] 413.9781 amu, mean: 413.9781
13:03:43: [2] 413.9781 amu, mean: 413.9781 SD: 0.01 mmu or: 0.02 ppm
13:03:46: [3] 413.9783 amu, mean: 413.9782 SD: 0.16 mmu or: 0.38 ppm
13:03:50: [4] 413.9777 amu, mean: 413.9780 SD: 0.28 mmu or: 0.67 ppm
13:03:50:
13:03:50: Stop requested. Please wait for procedure to finish.
13:03:50:
13:03:53:
13:03:53: Peakmatching stopped

Signature

BKK 5/31/24

Reports

13:04:12: Peak matching procedure started
13:04:12:
13:04:13: Reference mass: 413.97698
13:04:13: Sample mass: 464.0
13:04:14:
13:04:14: Finding reference mass
13:04:15: Finding sample mass
13:04:16:
13:04:21: [1] 463.9745 amu, mean: 463.9745
13:04:25: [2] 463.9741 amu, mean: 463.9743 SD: 0.31 mmu or: 0.67 ppm
13:04:28: [3] 463.9747 amu, mean: 463.9744 SD: 0.33 mmu or: 0.71 ppm
13:04:31: [4] 463.9752 amu, mean: 463.9746 SD: 0.47 mmu or: 1.02 ppm
13:04:32:
13:04:32: Stop requested. Please wait for procedure to finish.
13:04:32:
13:04:34:
13:04:35: Peakmatching stopped

Signature

BVK 5/31/24

Reports

13:04:47: Peak matching procedure started
13:04:48:
13:04:48: Reference mass: 463.97378
13:04:49: Sample mass: 502.0
13:04:49:
13:04:50: Finding reference mass
13:04:51: Finding sample mass
13:04:51:
13:04:57: [1] 501.9705 amu, mean: 501.9705
13:05:00: [2] 501.9716 amu, mean: 501.9710 SD: 0.80 mmu or: 1.60 ppm
13:05:04: [3] 501.9720 amu, mean: 501.9714 SD: 0.80 mmu or: 1.59 ppm
13:05:07: [4] 501.9704 amu, mean: 501.9711 SD: 0.80 mmu or: 1.59 ppm
13:05:07:
13:05:07: Stop requested. Please wait for procedure to finish.
13:05:07:
13:05:10:
13:05:10: Peakmatching stopped

Signature

BKK 5/31/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1.480	1.480	0.008877	0.008877		
D PCB-1L	11:38	14676977	3.18	1.6108	102.8	102.8	0.3184	0.3184	103	
D PCB-3L	13:47	14134368	3.26	1.5891	100.4	100.4	0.3228	0.3228	100	
PCB-1	11:39	87624	3.17	1.2191	0.4897	0.4897	0.007895	0.007895	97.94	
PCB-2	13:38	82442	3.08	1.1805	0.4848	0.4848	0.009006	0.009006	96.96	
PCB-3	13:48	87263	2.88	1.2206	0.5058	0.5058	0.009729	0.009729	101	
S Total Dichlorobiphenyls					6.017	6.017	0.0100	0.0100		
D PCB-4L	14:02	5904521	1.60	0.6475	102.9	102.9	0.1150	0.1150	103	
* PCB-9L	16:01	8859875	1.65		100.0	100.0				
D PCB-15L	19:55	9483770	1.65	1.0789	99.2	99.2	0.0690	0.0690	99.21	
PCB-4	14:04	36374	1.65	1.2818	0.4806	0.4806	0.0118	0.0118	96.12	
PCB-10	14:14	48502	1.60	1.3149	0.4794	0.4794	0.0104	0.0104	95.89	
PCB-9	16:02	51501	1.40	1.4224	0.4706	0.4706	0.009649	0.009649	94.11	
PCB-7	16:11	58157	1.66	1.4134	0.5348	0.5348	0.009711	0.009711	107	
PCB-6	16:26	62834	1.78	1.5421	0.5296	0.5296	0.008901	0.008901	106	
PCB-5	16:44	51519	1.59	1.3395	0.4999	0.4999	0.0102	0.0102	99.98	
PCB-8	16:52	61977	1.54	1.5889	0.5070	0.5070	0.008639	0.008639	101	
PCB-14	18:29	55107	1.60	1.4025	0.5107	0.5107	0.009787	0.009787	102	
PCB-11	19:20	53494	1.78	1.2951	0.5368	0.5368	0.0106	0.0106	107	
PCB-12	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-13 (C12)	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-15	19:57	63884	1.72	1.2903	0.5221	0.5221	0.009752	0.009752	104	
S Total Trichlorobiphenyls					11.9	11.8	0.0219	0.0219		RQ
D PCB-19L	17:09	3711790	1.05	0.6285	99.1	99.1	0.6332	0.6332	99.13	
* PCB-32L	20:24	5957210	1.09		100.0	100.0				
* PCB-31L	22:40	16769231	1.05		100.0	100.0				
D PCB-37L	26:57	14507892	1.05	0.8749	98.9	98.9	0.1278	0.1278	98.88	
PCB-19	17:10	27248	1.04	1.2809	0.5731	0.5731	0.007420	0.007420	115	
PCB-18	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-30 (C18)	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-17	19:27	23167	1.01	1.2430	0.5021	0.5021	0.007646	0.007646	100	
PCB-27	19:40	27414	1.04	1.8327	0.4459	0.4030	0.005186	0.005186	89.18	RQ
PCB-24	19:47	28349	1.04	1.6777	0.4961	0.4553	0.005665	0.005665	99.22	RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	20922	1.12	1.1286	0.4994	0.4994	0.008422	0.008422	99.89	
PCB-32	20:25	34215	0.98	1.8324	0.5030	0.5030	0.005187	0.005187	101	
PCB-34	21:41	81792	1.05	1.1277	0.4999	0.4999	0.0305	0.0305	99.98	
PCB-23	21:50	72448	1.04	1.0813	0.5015	0.4618	0.0318	0.0318	100	RQM
PCB-26	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-29 (C26)	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-25	22:23	97778	1.07	1.2728	0.5295	0.5295	0.0270	0.0270	106	
PCB-31	22:41	84854	0.99	1.1532	0.5072	0.5072	0.0298	0.0298	101	
PCB-20	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-28 (C20)	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-21	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-33 (C21)	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-22	23:36	87442	1.05	1.1932	0.5051	0.5051	0.0288	0.0288	101	M
PCB-36	25:10	76826	1.02	1.1071	0.4783	0.4783	0.0310	0.0310	95.67	
PCB-39	25:32	81144	0.96	1.1581	0.4829	0.4829	0.0297	0.0297	96.59	
PCB-38	26:07	76168	0.89	1.0843	0.4842	0.4842	0.0317	0.0317	96.84	
PCB-35	26:35	86063	1.10	1.1297	0.5251	0.5251	0.0304	0.0304	105	
PCB-37	26:58	90285	1.03	1.1435	0.5442	0.5442	0.0300	0.0300	109	
S Total Tetrachlorobiphenyls					21.5	21.3	0.0571	0.0571		RQ
D PCB-54L	20:13	3394991	0.79	0.5562	102.5	102.5	0.0371	0.0371	102	
* PCB-52L	24:47	8404949	0.80		100.0	100.0				
D PCB-81L	33:41	10352263	0.82	1.2470	98.8	98.8	0.1396	0.1396	98.78	
D PCB-77L	34:15	11078136	0.81	1.3212	99.8	99.8	0.1318	0.1318	99.76	
PCB-54	20:16	17905	0.67	1.2733	0.4142	0.4142	0.0222	0.0222	82.84	
PCB-50	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-53 (C50)	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-45	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-51 (C45)	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-46	23:24	43592	0.76	0.7101	0.5729	0.5729	0.0876	0.0876	115	M
PCB-52	24:49	45329	0.77	0.9194	0.5029	0.4601	0.0677	0.0677	101	RQ
PCB-43	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-73 (C43)	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-49	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-69 (C49)	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-48	25:35	46735	0.76	0.8399	0.5193	0.5193	0.0741	0.0741	104	
PCB-44	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-47 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-65 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-59	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-62 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-75 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-42	26:20	43465	0.87	0.8097	0.5010	0.5010	0.0769	0.0769	100	
PCB-40	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-41 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-71 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-64	27:03	57196	0.77	1.1776	0.5417	0.4533	0.0528	0.0528	108	RQ
PCB-72	27:52	59320	0.66	1.0943	0.5059	0.5059	0.0569	0.0569	101	
PCB-68	28:10	62752	0.87	1.2533	0.4673	0.4673	0.0497	0.0497	93.46	
PCB-57	28:35	54918	0.70	1.0818	0.4738	0.4738	0.0575	0.0575	94.75	
PCB-58	28:50	60758	0.77	1.3253	0.4830	0.4278	0.0470	0.0470	96.59	RQ
PCB-67	28:59	79670	0.84	1.4230	0.5225	0.5225	0.0437	0.0437	104	
PCB-63	29:15	60720	0.75	1.1240	0.5042	0.5042	0.0554	0.0554	101	
PCB-61	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-70 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-74 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-76 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-66	29:56	66199	0.79	1.2583	0.4910	0.4910	0.0495	0.0495	98.20	
PCB-55	30:04	77673	0.73	1.3236	0.5476	0.5476	0.0470	0.0470	110	
PCB-56	30:35	74659	0.77	1.2334	0.5649	0.5649	0.0505	0.0505	113	
PCB-60	30:48	60472	0.74	1.1230	0.5025	0.5025	0.0554	0.0554	101	
PCB-80	31:13	74270	0.87	1.3243	0.5234	0.5234	0.0470	0.0470	105	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:44	77395	0.67	1.4368	0.5027	0.5027	0.0433	0.0433	101	M
PCB-78	33:18	70824	0.66	1.1618	0.5689	0.5689	0.0536	0.0536	114	M
PCB-81	33:43	57961	0.65	1.0802	0.5183	0.5183	0.0588	0.0588	104	M
PCB-77	34:17	64742	0.68	1.0836	0.5393	0.5393	0.0563	0.0563	108	M
S Total Pentachlorobiphenyls					23.1	22.8	0.0196	0.0196		RQ
D PCB-104L	25:44	6938320	1.60	1.2161	102.3	102.3	0.0156	0.0156	102	
* PCB-101L	31:38	5575663	1.59		100.0	100.0				
D PCB-123L	36:16	10371480	1.57	0.9731	99.5	99.5	1.148	1.148	99.48	
D PCB-118L	36:35	10759990	1.57	1.0102	99.4	99.4	1.105	1.105	99.42	
D PCB-114L	37:07	10504311	1.60	0.9949	98.6	98.6	1.122	1.122	98.55	
D PCB-105L	37:46	10177357	1.59	0.9514	99.8	99.8	1.174	1.174	99.85	
* PCB-127L	39:15	10713438	1.58		100.0	100.0				
D PCB-126L	40:51	9958778	1.60	0.9439	98.5	98.5	1.183	1.183	98.48	
PCB-104	25:45	34754	1.77	1.0087	0.4966	0.4966	0.0112	0.0112	99.32	
PCB-96	26:08	38490	1.57	1.0940	0.5071	0.5071	0.0103	0.0103	101	
PCB-103	28:04	30305	1.75	0.8741	0.4997	0.4997	0.0129	0.0129	99.93	M
PCB-94	28:17	23082	1.55	0.7640	0.5235	0.4354	0.0147	0.0147	105	RQMa
PCB-95	28:44	24505	1.55	0.8033	0.5040	0.4397	0.0140	0.0140	101	RQ
PCB-93	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-100 (C93)	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-98	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-102 (C98)	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-88	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-91 (C88)	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-84	29:48	25161	1.48	0.7299	0.4968	0.4968	0.0154	0.0154	99.36	M
PCB-89	30:16	27593	1.55	0.7798	0.5718	0.5100	0.0144	0.0144	114	RQ
PCB-121	30:42	40059	1.55	1.2964	0.4829	0.4454	0.008690	0.008690	96.59	RQM
PCB-92	31:05	29937	1.63	0.8546	0.5049	0.5049	0.0132	0.0132	101	
PCB-90	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-101 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-113 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-83	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-99 (C83)	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-112	32:21	50114	1.73	1.4111	0.5119	0.5119	0.007984	0.007984	102	M
PCB-86	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-87 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-97 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-109 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-119 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-125 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-85	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-116 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-117 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-110	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-115 (C110)	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-82	33:57	28943	1.51	0.8303	0.5024	0.5024	0.0136	0.0136	100	
PCB-111	34:21	40194	1.73	1.2125	0.4778	0.4778	0.009291	0.009291	95.55	
PCB-120	34:49	53063	1.50	1.4762	0.5181	0.5181	0.007631	0.007631	104	M
PCB-108	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-124 (C108)	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-107	36:11	66807	1.70	1.2121	0.5323	0.5323	0.0329	0.0329	106	
PCB-123	36:17	56282	1.68	1.0722	0.5061	0.5061	0.0360	0.0360	101	
PCB-106	36:24	57304	1.76	1.0839	0.5106	0.5106	0.0367	0.0367	102	
PCB-118	36:38	65547	1.45	1.2055	0.5053	0.5053	0.0316	0.0316	101	
PCB-122	36:58	49485	1.43	0.9567	0.4995	0.4995	0.0416	0.0416	99.91	
PCB-114	37:08	55723	1.75	1.0842	0.4893	0.4893	0.0362	0.0362	97.86	
PCB-105	37:48	65478	1.55	1.1879	0.5416	0.5416	0.0346	0.0346	108	
PCB-127	39:16	57517	1.59	1.1394	0.4875	0.4875	0.0350	0.0350	97.51	
PCB-126	40:52	49570	1.50	1.0976	0.4535	0.4535	0.0385	0.0385	90.70	M
S Total Hexachlorobiphenyls					21.0	20.8	0.0233	0.0233		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:24	6307321	1.26	1.0851	104.2	104.2	0.0371	0.0371	104	
* PCB-138L	39:43	7044213	1.32		100.0	100.0				
\$ PCB-159L	41:57	4449727	1.28	0.5118	95.5	95.5	1.423	1.423	95.48	a
D PCB-167L	42:43	9105316	1.28	1.2572	102.8	102.8	0.7361	0.7361	103	
D PCB-156L	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-157L (C156L)	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-169L	47:06	9181390	1.25	1.2439	104.8	104.8	0.7440	0.7440	105	
PCB-155	31:25	28040	1.43	0.9444	0.4707	0.4707	0.005467	0.005467	94.15	
PCB-152	31:35	31058	1.33	0.9895	0.4976	0.4976	0.005218	0.005218	99.53	
PCB-150	31:47	30371	1.33	1.0132	0.4752	0.4752	0.005096	0.005096	95.05	
PCB-136	32:08	33387	1.06	1.0116	0.5233	0.5233	0.005104	0.005104	105	
PCB-145	32:27	31426	1.27	0.9685	0.5145	0.5145	0.005331	0.005331	103	
PCB-148	33:58	24113	1.24	0.7603	0.5028	0.5028	0.006791	0.006791	101	
PCB-135	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-151 (C135)	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-154	34:47	23372	1.05	0.8129	0.4558	0.4558	0.006351	0.006351	91.17	M
PCB-144	35:08	26036	1.25	0.7852	0.5257	0.5257	0.006575	0.006575	105	M
PCB-147	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-149 (C147)	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-134	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-143 (C134)	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-139	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-140 (C139)	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-131	36:17	42510	1.37	0.7503	0.6396	0.6396	0.0379	0.0379	128	M
PCB-142	36:25	31461	1.24	0.7507	0.4731	0.4731	0.0379	0.0379	94.62	M
PCB-132	36:44	36598	1.38	0.7489	0.5517	0.5517	0.0380	0.0380	110	
PCB-133	37:15	32377	1.21	0.8096	0.4515	0.4515	0.0351	0.0351	90.30	
PCB-165	37:38	42251	1.13	1.0247	0.4655	0.4655	0.0278	0.0278	93.10	
PCB-146	37:53	42036	1.25	0.9637	0.4924	0.4924	0.0295	0.0295	98.49	
PCB-161	38:01	46946	1.09	1.1288	0.4695	0.4695	0.0252	0.0252	93.91	
PCB-153	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-168 (C153)	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-141	38:41	35752	1.24	0.8755	0.5372	0.4610	0.0325	0.0325	107	RQ
PCB-130	39:06	32146	1.13	0.7051	0.5147	0.5147	0.0403	0.0403	103	
PCB-137	39:19	33182	1.29	0.7767	0.4823	0.4823	0.0366	0.0366	96.46	
PCB-164	39:26	39657	1.24	1.0382	0.5052	0.4312	0.0274	0.0274	101	RQ
PCB-129	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-138 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-160 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-163 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-158	40:08	60291	1.30	1.3110	0.5192	0.5192	0.0217	0.0217	104	M
PCB-128	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-166 (C128)	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-159	41:58	58381	1.13	1.3856	0.4757	0.4757	0.0205	0.0205	95.13	
PCB-162	42:15	55301	1.24	1.2571	0.4966	0.4966	0.0226	0.0226	99.32	M
PCB-167	42:45	51226	1.28	1.1159	0.5042	0.5042	0.0214	0.0214	101	M
PCB-156	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-157 (C156)	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-169	47:07	54907	1.08	1.1628	0.5143	0.5143	0.0207	0.0207	103	M
S Total Heptachlorobiphenyls					12.2	11.9	0.002448	0.002448		RQ
D PCB-188L	37:08	7116082	1.05	1.3133	97.2	97.2	0.0479	0.0479	97.22	
* PCB-180L	45:16	5573109	1.10		100.0	100.0				
D PCB-170L	46:31	4764508	1.06	0.8362	102.2	102.2	0.0753	0.0753	102	
D PCB-189L	49:37	11329298	1.05	1.4414	98.9	98.9	0.1878	0.1878	98.87	
PCB-188	37:09	39693	1.04	1.1350	0.4915	0.4915	0.000958	0.000958	98.29	
PCB-179	37:30	46777	0.90	1.4276	0.5516	0.5516	0.000926	0.000926	110	
PCB-184	38:01	38134	1.11	1.3672	0.4695	0.4695	0.000967	0.000967	93.91	
PCB-176	38:21	40584	0.92	1.2331	0.5541	0.5541	0.001072	0.001072	111	
PCB-186	38:49	44732	1.16	1.4737	0.5110	0.5110	0.000897	0.000897	102	
PCB-178	40:12	25284	1.13	0.8946	0.4758	0.4758	0.001477	0.001477	95.15	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:49	30945	1.15	0.9524	0.5470	0.5470	0.001388	0.001388	109	
PCB-187	41:07	28437	1.05	1.1018	0.4744	0.4345	0.001199	0.001199	94.89	RQ
PCB-182	41:18	24644	0.92	0.9247	0.4486	0.4486	0.001429	0.001429	89.73	
PCB-183	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-185 (C183)	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-174	41:58	30210	1.14	0.9642	0.5275	0.5275	0.001371	0.001371	105	
PCB-177	42:23	24827	1.05	0.9773	0.5151	0.4277	0.001352	0.001352	103	RQM
PCB-181	42:47	25626	1.05	0.9505	0.5072	0.4538	0.001390	0.001390	101	RQ
PCB-171	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-173 (C171)	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-172	44:39	26430	1.21	0.8519	0.5223	0.5223	0.001551	0.001551	104	
PCB-192	44:56	37024	1.15	1.3459	0.4631	0.4631	0.000982	0.000982	92.62	
PCB-180	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-193 (C180)	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-191	45:38	35223	1.09	1.2891	0.4600	0.4600	0.001025	0.001025	91.99	
PCB-170	46:33	25755	1.05	1.1865	0.5134	0.4556	0.001421	0.001421	103	RQ
PCB-190	47:03	40117	0.96	1.3322	0.5069	0.5069	0.000992	0.000992	101	
PCB-189	49:37	53094	1.05	0.9633	0.4865	0.4865	0.0271	0.0271	97.30	
S Total Octachlorobiphenyls					5.918	5.838	0.0106	0.0106		RQ
D PCB-202L	42:30	5622444	0.90	0.9818	102.8	102.8	0.0263	0.0263	103	
* PCB-194L	51:44	7949496	0.91		100.0	100.0				
D PCB-205L	52:12	9259085	0.90	1.1786	98.8	98.8	0.0675	0.0675	98.83	
PCB-202	42:32	25714	0.97	1.0359	0.4415	0.4415	0.004243	0.004243	88.30	
PCB-201	43:25	26064	1.00	0.9754	0.4753	0.4753	0.004507	0.004507	95.06	
PCB-204	44:05	29939	0.90	1.0485	0.5078	0.5078	0.004192	0.004192	102	
PCB-197	44:22	31937	0.89	1.1458	0.5363	0.4958	0.003836	0.003836	107	RQM
PCB-200	44:26	25941	0.88	1.0072	0.4581	0.4581	0.004364	0.004364	91.62	
PCB-198	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-199 (C198)	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-196	47:56	21772	0.81	0.7806	0.4960	0.4960	0.005631	0.005631	99.21	M
PCB-203	48:05	26586	0.95	0.9292	0.5089	0.5089	0.004730	0.004730	102	
PCB-195	49:23	31222	0.89	0.8263	0.4480	0.4081	0.0306	0.0306	89.61	RQM
PCB-194	51:47	47820	0.76	0.9735	0.5305	0.5305	0.0260	0.0260	106	M
PCB-205	52:13	50563	1.02	1.0878	0.5020	0.5020	0.0233	0.0233	100	M
S Total Nonachlorobiphenyls					1.638	1.638	0.0828	0.0828		
D PCB-208L	49:09	7500908	0.79	0.9576	98.5	98.5	0.8140	0.8140	98.54	
D PCB-206L	53:57	5499727	0.80	0.6947	99.6	99.6	1.122	1.122	99.59	
PCB-208	49:12	41595	0.81	1.1374	0.4875	0.4875	0.0795	0.0795	97.50	M
PCB-207	50:06	49926	0.75	1.3756	0.5583	0.5583	0.0760	0.0760	112	M
PCB-206	53:59	43449	0.66	1.3346	0.5920	0.5920	0.0930	0.0930	118	M
D PCB-209L	55:35	5278978	0.72	0.6669	99.6	99.6	0.0537	0.0537	99.58	
DCB Decachlorobiphenyl	55:38	28972	0.69	1.1004	0.4987	0.4987	0.0132	0.0132	99.75	
S Polychlorinated biphenyls, Total					103.7	0.4987	0.0268	0.0268		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L0.51668P_00011

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	11164084	4532204	3607	9017	1257		
202.0766	11:38	11:36	2	0.726	3512893	1410849	1621	4052	870	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10820055	3687990	3607	9017	1022		
202.0766	13:47	13:46	2	0.861	3314313	1128820	1621	4052	696	3.26(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	66599	27071	128	320	211		
190.0363	11:39	11:37	2	1.001	21025	8467	101	252	84	3.17(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	62227	19529	128	320	153		
190.0363	13:37	13:36	1	0.988	20215	5681	101	252	56	3.08(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	64767	22803	128	320	178		
190.0363	13:48	13:47	2	1.001	22496	6864	101	252	68	2.88(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	1	0.877	3636981	1168381	538	1345	2172		
236.0376	14:02	14:02	1	0.877	2267540	732734	221	552	3316	1.60(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5513591	1579678	538	1345	2936		
236.0376	16:01	15:59	2		3346284	968408	221	552	4382	1.65(1.33-1.79)	
PCB-15L											
234.0406	19:55	19:54	1	1.244	5904134	1412431	538	1345	2625		
236.0376	19:55	19:54	1	1.244	3579636	868377	221	552	3929	1.65(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.002	22626	7167	53	132	135		
223.9974	14:04	14:02	2	1.002	13748	4609	62	155	74	1.65(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.014	29842	9323	53	132	176		
223.9974	14:14	14:13	1	1.013	18660	5959	62	155	96	1.60(1.33-1.79)	
PCB-9											
222.0003	16:02	16:00	2	1.142	30028	8278	53	132	156		
223.9974	16:02	16:00	2	1.142	21473	7126	62	155	115	1.40(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.153	36288	9445	53	132	178		
223.9974	16:12	16:10	2	1.154	21869	6316	62	155	102	1.66(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.171	40226	11330	53	132	214		
223.9974	16:26	16:25	1	1.171	22608	6392	62	155	103	1.78(1.33-1.79)	
PCB-5											
222.0003	16:44	16:43	1	1.192	31604	8701	53	132	164		
223.9974	16:44	16:43	1	1.192	19915	5330	62	155	86	1.59(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.202	37559	10534	53	132	199		
223.9974	16:52	16:50	2	1.202	24418	6083	62	155	98	1.54(1.33-1.79)	
PCB-14											
222.0003	18:29	18:28	2	0.928	33908	7989	53	132	151		
223.9974	18:29	18:28	2	0.928	21199	5635	62	155	91	1.60(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	2	0.970	34222	8269	53	132	156		
223.9974	19:20	19:18	2	0.971	19272	3910	62	155	63	1.78(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	2	1.001	40370	8915	53	132	168		
223.9974	19:56	19:55	1	1.001	23514	5303	62	155	86	1.72(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	1	0.840	1897205	520126	418	1045	1244		
269.9986	17:09	17:08	1	0.840	1814585	500455	1834	4585	273	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	2		3112703	738308	418	1045	1766		
269.9986	20:24	20:23	2		2844507	676250	1834	4585	369	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:40	22:38	1		8607254	2000225	1020	2550	1961		
269.9986	22:40	22:38	1		8161977	1873248	713	1782	2627	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:57	26:55	1	1.189	7444868	1502675	1020	2550	1473		
269.9986	26:57	26:55	1	1.189	7063024	1422829	713	1782	1996	1.05(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.002	13869	4052	38	95	107		
257.9584	17:10	17:09	2	1.002	13379	3726	1	2	3726	1.04(0.88-1.20)	
PCB-18											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.134	11628	3157	38	95	83		
257.9584	19:26	19:26	0	1.133	11539	2725	1	2	2725	1.01(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	2	1.147	13976	3078	38	95	81		RQ
257.9584	19:40	19:39	2	1.147	16358	4332	1	2	4332	0.85(0.88-1.20)	
Empc Correction					13438	2959	1	2	2959		
PCB-24											
255.9613	19:47	19:46	2	1.154	16997	4146	38	95	109		RQ
Empc Correction					14452	4243	38	95	112		
257.9584	19:47	19:46	2	1.154	13897	4080	1	2	4080	1.22(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	2	1.161	11069	2941	38	95	77		
257.9584	19:54	19:53	2	1.161	9853	2085	1	2	2085	1.12(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	2	1.191	16940	3780	38	95	99		
257.9584	20:25	20:23	2	1.191	17275	4477	1	2	4477	0.98(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.265	41836	9374	199	497	47		
257.9584	21:41	21:39	2	1.265	39956	9560	203	507	47	1.05(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	1	1.273	43162	9588	199	497	48		RQM
Empc Correction					36934	7606	199	497	38		M
257.9584	21:50	21:48	1	1.273	35514	7314	203	507	36	1.22(0.88-1.20)	
PCB-26											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-25											
255.9613	22:23	22:21	2	0.830	50612	10278	199	497	52		
257.9584	22:23	22:21	2	0.830	47166	9876	203	507	49	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	1	0.842	42270	9782	199	497	49		
257.9584	22:41	22:40	1	0.842	42584	9517	203	507	47	0.99(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-21											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-22											
255.9613	23:36	23:35	1	0.876	44761	9832	199	497	49		M
257.9584	23:36	23:35	1	0.876	42681	10672	203	507	53	1.05(0.88-1.20)	M
PCB-36											
255.9613	25:10	25:09	1	0.934	38841	6743	199	497	34		
257.9584	25:09	25:09	1	0.934	37985	8229	203	507	41	1.02(0.88-1.20)	
PCB-39											
255.9613	25:32	25:30	1	0.947	39820	9136	199	497	46		
257.9584	25:32	25:30	1	0.947	41324	9398	203	507	46	0.96(0.88-1.20)	
PCB-38											
255.9613	26:07	26:05	2	0.969	35932	7439	199	497	37		
257.9584	26:06	26:05	1	0.969	40236	8011	203	507	39	0.89(0.88-1.20)	
PCB-35											
255.9613	26:35	26:32	2	0.986	45018	8806	199	497	44		
257.9584	26:35	26:32	3	0.987	41045	6646	203	507	33	1.10(0.88-1.20)	
PCB-37											
255.9613	26:58	26:57	1	1.001	45729	8804	199	497	44		
257.9584	26:58	26:57	1	1.001	44556	9167	203	507	45	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:13	20:12	1	0.816	1499419	373718	75	187	4983		
303.9597	20:13	20:12	1	0.816	1895572	464452	42	105	11058	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:47	24:46	1		3741565	815378	637	1592	1280		
303.9597	24:47	24:46	1		4663384	1019625	641	1602	1591	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:41	33:41	1	1.359	4654546	911958	637	1592	1432		
303.9597	33:41	33:41	1	1.359	5697717	1107589	641	1602	1728	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	1	1.382	4945005	941207	637	1592	1478		
303.9597	34:15	34:14	1	1.382	6133131	1159647	641	1602	1809	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											
289.9224	20:16	20:13	2	1.000	7157	1991	30	75	66		
291.9194	20:16	20:13	2	1.000	10748	2683	65	162	41	0.67(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-45											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.157	18791	3719	199	497	19		M
291.9194	23:23	23:22	1	1.157	24801	5066	314	785	16	0.76(0.65-0.89)	M
PCB-52											
289.9224	24:49	24:47	1	1.227	23937	5662	199	497	28		RQ
	Empc Correction				19719	4104	199	497	21		
291.9194	24:49	24:47	1	1.227	25610	5331	314	785	17	0.93(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-48											
289.9224	25:35	25:33	1	1.265	20161	4831	199	497	24		
291.9194	25:34	25:33	1	1.264	26574	5612	314	785	18	0.76(0.65-0.89)	
PCB-44											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-42											
289.9224	26:20	26:18	1	1.302	20234	3794	199	497	19		
291.9194	26:21	26:18	2	1.303	23231	5239	314	785	17	0.87(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-64											
289.9224	27:03	27:01	2	1.338	24882	5123	199	497	26		RQ
291.9194	27:03	27:01	2	1.338	43465	8272	314	785	26	0.57(0.65-0.89)	
Empc Correction					32314	6653	314	785	21		
PCB-72											
289.9224	27:52	27:51	1	0.827	23660	4853	199	497	24		
291.9194	27:53	27:51	1	0.828	35660	7770	314	785	25	0.66(0.65-0.89)	
PCB-68											
289.9224	28:10	28:09	1	0.836	29228	5246	199	497	26		
291.9194	28:10	28:09	1	0.836	33524	7459	314	785	24	0.87(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	22605	4646	199	497	23		
291.9194	28:36	28:34	2	0.849	32313	7342	314	785	23	0.70(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	1	0.856	34260	6621	199	497	33		RQ
Empc Correction					26431	6036	199	497	30		
291.9194	28:50	28:48	1	0.856	34327	7839	314	785	25	1.00(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	36337	7141	199	497	36		
291.9194	29:00	28:58	1	0.861	43333	8863	314	785	28	0.84(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	1	0.868	25964	5331	199	497	27		
291.9194	29:15	29:14	1	0.868	34756	7115	314	785	23	0.75(0.65-0.89)	
PCB-61											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-66											
289.9224	29:56	29:53	2	0.888	29166	6364	199	497	32		
291.9194	29:54	29:53	1	0.888	37033	7665	314	785	24	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	32723	6737	199	497	34		
291.9194	30:04	30:03	1	0.892	44950	9943	314	785	32	0.73(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	1	0.908	32555	7191	199	497	36		
291.9194	30:36	30:33	2	0.908	42104	8328	314	785	27	0.77(0.65-0.89)	
PCB-60											
289.9224	30:48	30:46	1	0.914	25722	4832	199	497	24		
291.9194	30:47	30:46	1	0.914	34750	6086	314	785	19	0.74(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.927	34507	5763	199	497	29		
291.9194	31:12	31:11	1	0.926	39763	7381	314	785	24	0.87(0.65-0.89)	
PCB-79											
289.9224	32:44	32:42	1	0.972	31187	5973	199	497	30		M
291.9194	32:44	32:42	1	0.972	46208	8189	314	785	26	0.67(0.65-0.89)	M
PCB-78											
289.9224	33:18	33:15	3	0.989	28048	5337	199	497	27		M
291.9194	33:17	33:15	1	0.988	42776	7596	314	785	24	0.66(0.65-0.89)	M
PCB-81											
289.9224	33:43	33:42	1	1.001	22843	4819	199	497	24		M
291.9194	33:44	33:42	1	1.001	35118	6555	314	785	21	0.65(0.65-0.89)	M
PCB-77											
289.9224	34:17	34:16	1	1.001	26136	5183	199	497	26		M
291.9194	34:16	34:16	0	1.000	38606	7312	314	785	23	0.68(0.65-0.89)	M
PCB-104L											
337.9207	25:44	25:42	1	0.813	4271749	931912	57	142	16349		
339.9178	25:44	25:42	1	0.813	2666571	577090	28	70	20610	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:38	31:37	1		3426318	688499	57	142	12079		
339.9178	31:38	31:37	1		2149345	430401	28	70	15371	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:16	36:15	2	1.147	6332260	1258157	5590	13975	225		
339.9178	36:16	36:15	2	1.147	4039220	787783	3730	9325	211	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:35	36:34	1	1.157	6572835	1259467	5590	13975	225		
339.9178	36:35	36:34	1	1.157	4187155	811700	3730	9325	218	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	6471551	1249296	5590	13975	223		
339.9178	37:07	37:06	1	1.173	4032760	764773	3730	9325	205	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:45	2	1.194	6250012	1185355	5590	13975	212		
339.9178	37:46	37:45	2	1.194	3927345	735373	3730	9325	197	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6568825	1288310	5590	13975	230		
339.9178	39:15	39:14	1		4144613	798182	3730	9325	214	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	6132942	1148994	5590	13975	206		
339.9178	40:51	40:50	1	1.292	3825836	718408	3730	9325	193	1.60(1.32-1.78)	
PCB-104											
325.8804	25:45	25:44	1	1.000	22188	4465	16	40	279		
327.8775	25:45	25:44	1	1.000	12566	3520	52	130	68	1.77(1.32-1.78)	
PCB-96											
325.8804	26:08	26:06	1	1.015	23514	6543	16	40	409		
327.8775	26:07	26:06	1	1.015	14976	3810	52	130	73	1.57(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	19294	4174	16	40	261		M
327.8775	28:04	28:02	2	1.091	11011	2101	52	130	40	1.75(1.32-1.78)	M
PCB-94											
325.8804	28:17	28:16	1	1.099	18701	4888	16	40	306		RQMa
	Empc Correction				14030	2690	16	40	168		M
327.8775	28:17	28:16	1	1.099	9052	1736	52	130	33	2.07(1.32-1.78)	
PCB-95											
325.8804	28:44	28:42	2	1.117	18479	4151	16	40	259		RQ
	Empc Correction				14895	3613	16	40	226		
327.8775	28:43	28:42	1	1.116	9610	2331	52	130	45	1.92(1.32-1.78)	
PCB-93											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-98											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-88											
325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											M
325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M
PCB-84											M
325.8804	29:48	29:47	1	1.158	15027	2961	16	40	185		
327.8775	29:46	29:47	-1	1.157	10134	1937	52	130	37	1.48(1.32-1.78)	M
PCB-89											RQ
325.8804	30:16	30:16	1	1.177	20119	3570	16	40	223		
Empc Correction											
327.8775	30:18	30:16	2	1.178	10821	2230	52	130	43	1.86(1.32-1.78)	
PCB-121											RQM
325.8804	30:42	30:41	1	1.193	24350	4810	16	40	301		M
327.8775	30:42	30:41	1	1.193	19089	4968	52	130	96	1.28(1.32-1.78)	
Empc Correction											
					15709	3103	52	130	60		
PCB-92											
325.8804	31:05	31:03	1	0.857	18551	3313	16	40	207		
327.8775	31:05	31:03	1	0.857	11386	2282	52	130	44	1.63(1.32-1.78)	
PCB-90											M
325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
PCB-101 (C90)											M
325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
PCB-113 (C90)											M
325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
PCB-83											M
325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
PCB-99 (C83)											M
325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
PCB-112											M
325.8804	32:21	32:20	1	1.257	31739	5637	16	40	352		M
327.8775	32:18	32:20	-2	1.256	18375	2885	52	130	55	1.73(1.32-1.78)	M
PCB-86											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-110											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-115 (C110)											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-82											
325.8804	33:57	33:55	1	1.319	17417	3116	16	40	195		
327.8775	33:57	33:55	2	1.320	11526	2309	52	130	44	1.51(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	25493	4795	16	40	300		
327.8775	34:19	34:19	0	1.334	14701	2930	52	130	56	1.73(1.32-1.78)	
PCB-120											M
325.8804	34:49	34:47	2	1.353	31833	6490	16	40	406		
327.8775	34:48	34:47	1	1.353	21230	4518	52	130	87	1.50(1.32-1.78)	M
PCB-108											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	2	1.406	42100	7332	149	372	49		
327.8775	36:11	36:09	2	1.406	24707	4629	167	417	28	1.70(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	35275	6618	149	372	44		
327.8775	36:18	36:16	2	1.001	21007	4160	167	417	25	1.68(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	36546	7274	149	372	49		
327.8775	36:24	36:23	1	1.004	20758	4860	167	417	29	1.76(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:38	36:36	2	1.001	38751	7093	149	372	48		
327.8775	36:38	36:36	2	1.001	26796	4714	167	417	28	1.45(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	29111	6122	149	372	41		
327.8775	36:59	36:56	2	1.011	20374	3860	167	417	23	1.43(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	35470	7088	149	372	48		
327.8775	37:08	37:08	0	1.000	20253	4312	167	417	26	1.75(1.32-1.78)	
PCB-105											
325.8804	37:48	37:46	2	1.001	39841	7999	149	372	54		
327.8775	37:46	37:46	0	1.000	25637	4872	167	417	29	1.55(1.32-1.78)	
PCB-127											
325.8804	39:16	39:15	2	1.040	35291	7541	149	372	51		
327.8775	39:15	39:15	1	1.039	22226	4343	167	417	26	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	1	1.001	29722	5954	149	372	40		M
327.8775	40:52	40:52	1	1.001	19848	4395	167	417	26	1.50(1.32-1.78)	M
PCB-155L											
371.8817	31:24	31:23	1	0.791	3521584	727127	112	280	6492		
373.8788	31:24	31:23	1	0.791	2785737	570559	68	170	8391	1.26(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		4003503	758289	3018	7545	251		
373.8788	39:43	39:41	2		3040710	578967	1932	4830	300	1.32(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4449727	849985	3018	7545	282		a
373.8788	41:57	41:56	1	0.982	3485772	651633	1932	4830	337	1.28(0.00-0.00)	a
PCB-167L											
371.8817	42:43	42:42	1	1.076	5120342	952633	3018	7545	316		
373.8788	42:43	42:42	1	1.076	3984974	746682	1932	4830	386	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	5098359	941799	3018	7545	312		
373.8788	47:06	47:05	1	1.186	4083031	738055	1932	4830	382	1.25(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	1	1.001	16517	4067	26	65	156		
361.8385	31:25	31:25	1	1.001	11523	2696	1	2	2696	1.43(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.006	17736	3113	26	65	120		
361.8385	31:38	31:36	2	1.007	13322	2954	1	2	2954	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-150											
359.8415	31:47	31:46	1	1.012	17358	3610	26	65	139		
361.8385	31:47	31:46	1	1.012	13013	2675	1	2	2675	1.33(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	1	1.024	17205	3629	26	65	140		
361.8385	32:10	32:08	2	1.024	16182	3602	1	2	3602	1.06(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	1	1.033	17590	4701	26	65	181		
361.8385	32:25	32:25	0	1.033	13836	2630	1	2	2630	1.27(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	13361	2678	26	65	103		
361.8385	33:59	33:57	2	1.082	10752	2090	1	2	2090	1.24(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	11960	2487	26	65	96		M
361.8385	34:48	34:47	1	1.108	11412	2453	1	2	2453	1.05(1.05-1.43)	M
PCB-144											
359.8415	35:08	35:06	2	1.119	14483	2593	26	65	100		M
361.8385	35:07	35:06	1	1.119	11553	2534	1	2	2534	1.25(1.05-1.43)	M
PCB-147											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-134											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-131											
359.8415	36:17	36:15	2	1.156	24575	4053	75	187	54		M
361.8385	36:15	36:15	0	1.155	17935	3791	87	217	44	1.37(1.05-1.43)	M

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-142											M
	359.8415	36:25	36:24	1	1.160	17385	3678	75	187	49		M
	361.8385	36:26	36:24	2	1.160	14076	2525	87	217	29	1.24(1.05-1.43)	
	PCB-132											
	359.8415	36:44	36:43	1	1.170	21243	3616	75	187	48		
	361.8385	36:44	36:43	1	1.170	15355	3115	87	217	36	1.38(1.05-1.43)	
	PCB-133											
	359.8415	37:15	37:14	1	1.186	17759	3518	75	187	47		
	361.8385	37:15	37:14	1	1.186	14618	3267	87	217	38	1.21(1.05-1.43)	
	PCB-165											
	359.8415	37:38	37:37	2	0.881	22369	4212	75	187	56		
	361.8385	37:37	37:37	0	0.880	19882	4015	87	217	46	1.13(1.05-1.43)	
	PCB-146											
	359.8415	37:53	37:52	1	0.887	23392	4679	75	187	62		
	361.8385	37:53	37:52	1	0.887	18644	3732	87	217	43	1.25(1.05-1.43)	
	PCB-161											
	359.8415	38:01	38:00	2	0.890	24500	4544	75	187	61		
	361.8385	38:01	38:00	2	0.890	22446	4887	87	217	56	1.09(1.05-1.43)	
	PCB-153											
	359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
	361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
	PCB-168 (C153)											
	359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
	361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
	PCB-141											RQ
	359.8415	38:41	38:41	1	0.906	25703	4580	75	187	61		
		Empc Correction				19791	4855	75	187	65		
	361.8385	38:42	38:41	2	0.906	15961	3916	87	217	45	1.61(1.05-1.43)	
	PCB-130											
	359.8415	39:06	39:05	1	0.915	17051	3420	75	187	46		
	361.8385	39:07	39:05	2	0.916	15095	3034	87	217	35	1.13(1.05-1.43)	
	PCB-137											
	359.8415	39:19	39:18	1	0.920	18700	3812	75	187	51		
	361.8385	39:19	39:18	1	0.920	14482	4356	87	217	50	1.29(1.05-1.43)	
	PCB-164											RQ
	359.8415	39:26	39:26	0	0.923	21953	4659	75	187	62		
	361.8385	39:27	39:26	2	0.924	24511	3765	87	217	43	0.90(1.05-1.43)	
		Empc Correction				17704	3757	87	217	43		
	PCB-129											M
	359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
	361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
	PCB-138 (C129)											M
	359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
	361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
	PCB-160 (C129)											M
	359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
	361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-158											M
359.8415	40:08	40:07	2	0.940	34022	6214	75	187	83		M
361.8385	40:07	40:07	1	0.939	26269	5353	87	217	62	1.30(1.05-1.43)	M
PCB-128											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-166 (C128)											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.982	30925	5908	75	187	79		
361.8385	42:00	41:58	2	0.983	27456	5565	87	217	64	1.13(1.05-1.43)	
PCB-162											M
359.8415	42:15	42:15	0	0.989	30600	5223	75	187	70		
361.8385	42:15	42:15	0	0.989	24701	4629	87	217	53	1.24(1.05-1.43)	M
PCB-167											M
359.8415	42:45	42:44	1	1.001	28743	5226	75	187	70		
361.8385	42:46	42:44	2	1.001	22483	3790	87	217	44	1.28(1.05-1.43)	M
PCB-156											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	28472	4838	75	187	65		
361.8385	47:08	47:06	2	1.001	26435	4107	87	217	47	1.08(1.05-1.43)	M
PCB-188L											
405.8428	37:08	37:07	1	0.820	3650355	708318	219	547	3234		
407.8398	37:08	37:07	1	0.820	3465727	671924	40	100	16798	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2921128	536267	219	547	2449		
407.8398	45:16	45:15	1		2651981	491396	40	100	12285	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2449728	456817	219	547	2086		
407.8398	46:31	46:30	1	1.028	2314780	432860	40	100	10822	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5793890	1055058	714	1785	1478		
407.8398	49:37	49:37	0	1.096	5535408	1012487	859	2147	1179	1.05(0.89-1.21)	
PCB-188											
393.8025	37:09	37:08	1	1.001	20249	4207	4	10	1052		
395.7995	37:09	37:08	1	1.001	19444	3592	2	5	1796	1.04(0.89-1.21)	

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags	
	PCB-179												
	393.8025	37:30	37:28	2	1.010	22112	4623	4	10	1156			
	395.7995	37:30	37:28	2	1.010	24665	4621	2	5	2311	0.90(0.89-1.21)		
	PCB-184												
	393.8025	38:01	38:00	2	1.024	20060	3448	4	10	862			
	395.7995	38:01	38:00	2	1.024	18074	3546	2	5	1773	1.11(0.89-1.21)		
	PCB-176												
	393.8025	38:21	38:21	0	1.033	19432	4183	4	10	1046			
	395.7995	38:21	38:21	0	1.033	21152	3716	2	5	1858	0.92(0.89-1.21)		
	PCB-186												
	393.8025	38:49	38:48	2	1.046	24006	4770	4	10	1193			
	395.7995	38:49	38:48	2	1.046	20726	3450	2	5	1725	1.16(0.89-1.21)		
	PCB-178												
	393.8025	40:12	40:11	1	1.083	13403	2484	4	10	621			
	395.7995	40:12	40:11	1	1.083	11881	2655	2	5	1328	1.13(0.89-1.21)		
	PCB-175												
	393.8025	40:49	40:49	0	1.100	16575	3528	4	10	882			
	395.7995	40:50	40:49	1	1.100	14370	2591	2	5	1296	1.15(0.89-1.21)		
	PCB-187												
	393.8025	41:07	41:05	2	1.107	17180	3179	4	10	795		RQ	
		Empc Correction				14565	2642	4	10	661			
	395.7995	41:05	41:05	0	1.107	13872	2517	2	5	1259	1.24(0.89-1.21)		
	PCB-182												
	393.8025	41:18	41:18	1	1.113	11841	2710	4	10	678			
	395.7995	41:17	41:18	-1	1.112	12803	2552	2	5	1276	0.92(0.89-1.21)		
	PCB-183												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-185 (C183)												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-174												
	393.8025	41:58	41:56	2	1.130	16111	4046	4	10	1012			
	395.7995	41:57	41:56	1	1.130	14099	2820	2	5	1410	1.14(0.89-1.21)		
	PCB-177												
	393.8025	42:23	42:22	1	1.142	17793	3564	4	10	891		RQM M	
		Empc Correction				12716	2714	4	10	679			
	395.7995	42:24	42:22	2	1.142	12111	2585	2	5	1293	1.47(0.89-1.21)		
	PCB-181												
	393.8025	42:47	42:45	2	1.152	13126	3219	4	10	805		RQ	
	395.7995	42:46	42:45	1	1.152	15511	2800	2	5	1400	0.85(0.89-1.21)		
		Empc Correction				12500	3065	2	5	1533			
	PCB-171												
	393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234			
	395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-173 (C171)											
393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234		
395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)	
PCB-172											
393.8025	44:39	44:37	2	0.900	14459	2787	4	10	697		
395.7995	44:39	44:37	2	0.900	11971	2571	2	5	1286	1.21(0.89-1.21)	
PCB-192											
393.8025	44:56	44:54	2	0.905	19802	3210	4	10	803		
395.7995	44:55	44:54	1	0.905	17222	3463	2	5	1732	1.15(0.89-1.21)	
PCB-180											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-191											
393.8025	45:38	45:37	1	0.920	18364	3624	4	10	906		
395.7995	45:38	45:37	1	0.920	16859	3801	2	5	1901	1.09(0.89-1.21)	
PCB-170											
393.8025	46:33	46:32	2	0.938	13192	2794	4	10	699		RQ
395.7995	46:33	46:32	2	0.938	15830	3001	2	5	1501	0.83(0.89-1.21)	
Empc Correction					12563	2660	2	5	1330		
PCB-190											
393.8025	47:03	47:02	1	0.948	19619	4177	4	10	1044		
395.7995	47:03	47:02	1	0.948	20498	4227	2	5	2114	0.96(0.89-1.21)	
PCB-189											
393.8025	49:37	49:38	-1	1.000	27187	4572	124	310	37		
395.7995	49:39	49:38	2	1.001	25907	5464	92	230	59	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2670571	516634	59	147	8757		
441.8008	42:30	42:28	2	0.821	2951873	552631	47	117	11758	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:44	51:43	1		3781894	694777	234	585	2969		
441.8008	51:44	51:43	1		4167602	757674	228	570	3323	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:12	52:11	1	1.009	4394997	786634	234	585	3362		
441.8008	52:12	52:11	1	1.009	4864088	881228	228	570	3865	0.90(0.76-1.02)	
PCB-202											
427.7635	42:32	42:29	3	1.001	12689	2872	1	2	2872		
429.7606	42:30	42:29	0	1.000	13025	2499	18	45	139	0.97(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	13053	2640	1	2	2640		
429.7606	43:26	43:25	1	1.022	13011	2660	18	45	148	1.00(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.037	14203	2586	1	2	2586		
429.7606	44:05	44:05	0	1.037	15736	2883	18	45	160	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											RQM
427.7635	44:22	44:19	3	1.044	17650	3512	1	2	3512		M
	Empc Correction				15039	2940	1	2	2940		
429.7606	44:19	44:19	0	1.043	16898	3304	18	45	184	1.04(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	12112	2573	1	2	2573		
429.7606	44:26	44:25	0	1.046	13829	2614	18	45	145	0.88(0.76-1.02)	
PCB-198											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-196											M
427.7635	47:56	47:53	3	0.918	9747	1853	1	2	1853		M
429.7606	47:53	47:53	0	0.917	12025	2532	18	45	141	0.81(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	12983	3083	1	2	3083		
429.7606	48:05	48:05	0	0.921	13603	2751	18	45	153	0.95(0.76-1.02)	
PCB-195											RQM
427.7635	49:23	49:23	0	0.946	17759	3222	73	182	44		M
	Empc Correction				14702	2966	73	182	41		
429.7606	49:25	49:23	2	0.947	16520	3333	96	240	35	1.08(0.76-1.02)	
PCB-194											M
427.7635	51:47	51:44	2	0.992	20698	4082	73	182	56		M
429.7606	51:45	51:44	1	0.991	27122	5186	96	240	54	0.76(0.76-1.02)	
PCB-205											M
427.7635	52:13	52:13	0	1.000	25496	6107	73	182	84		M
429.7606	52:13	52:13	0	1.000	25067	5094	96	240	53	1.02(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	3304483	605650	3787	9467	160		
475.7619	49:10	49:09	1	0.950	4196425	757108	742	1855	1020	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:57	53:57	1	1.043	2449860	441403	3787	9467	117		
475.7619	53:57	53:57	1	1.043	3049867	551350	742	1855	743	0.80(0.65-0.89)	
PCB-208											M
461.7246	49:12	49:10	2	1.001	18598	3641	191	477	19		M
463.7216	49:11	49:10	1	1.001	22997	4511	302	755	15	0.81(0.65-0.89)	M
PCB-207											M
461.7246	50:06	50:05	0	1.019	21467	4257	191	477	22		M
463.7216	50:06	50:05	0	1.019	28459	5426	302	755	18	0.75(0.65-0.89)	M
PCB-206											M
461.7246	53:59	53:58	1	1.000	17294	2978	191	477	16		M
463.7216	53:58	53:58	0	1.000	26155	5006	302	755	17	0.66(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2215759	386177	140	350	2758		
509.7229	55:35	55:34	1	1.074	3063219	521635	68	170	7671	0.72(0.59-0.79)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
--------	--------------	------------------	------	-----------	------	--------	--------------	---------------	-----	---------------	-------

DCB Decachlorobiphenyl

495.6856	55:38	55:36	2	1.001	11820	2518	18	45	140		
497.6826	55:36	55:36	0	1.000	17152	2969	35	87	85	0.69(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L0.51668P_00011

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

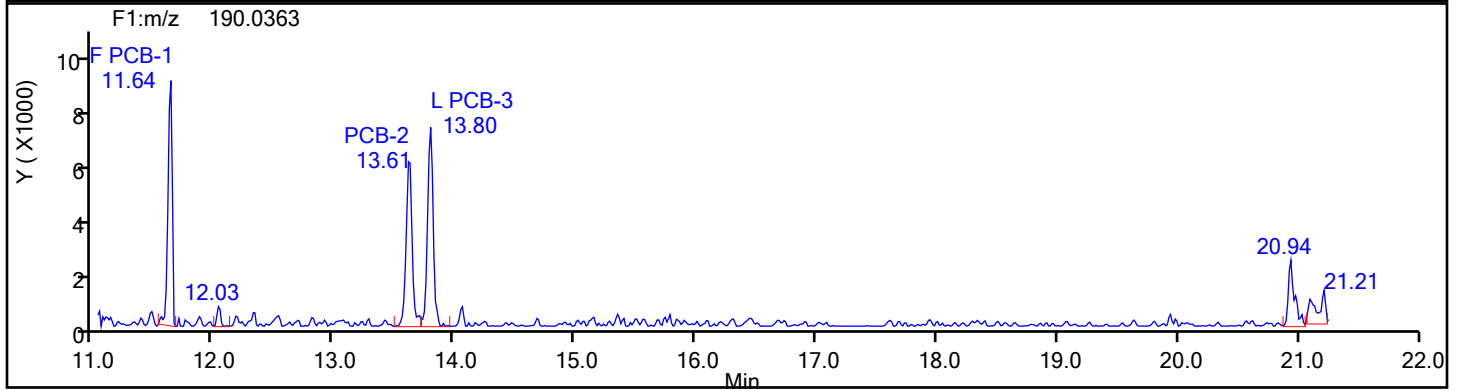
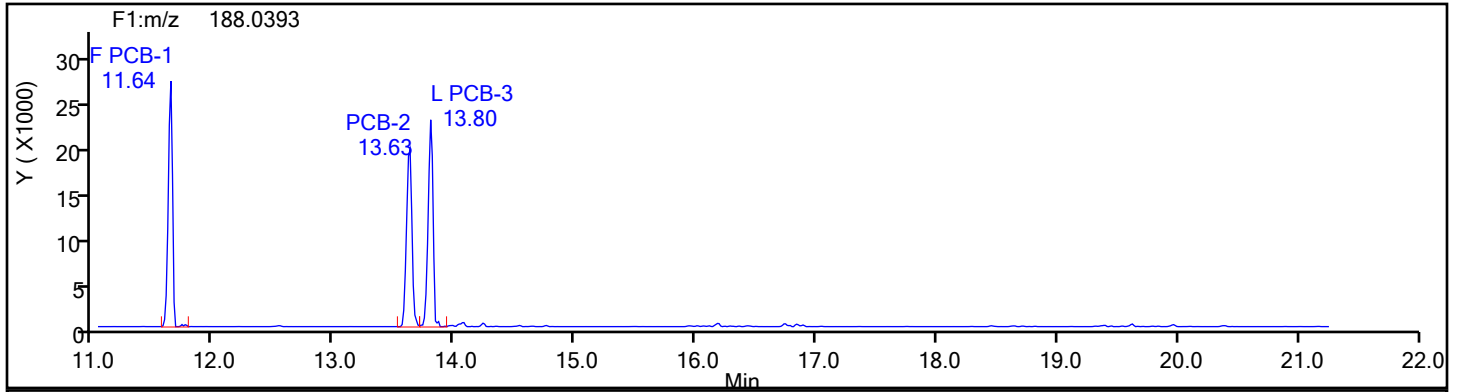
Worklist#: 87130

Sample Line#: 1

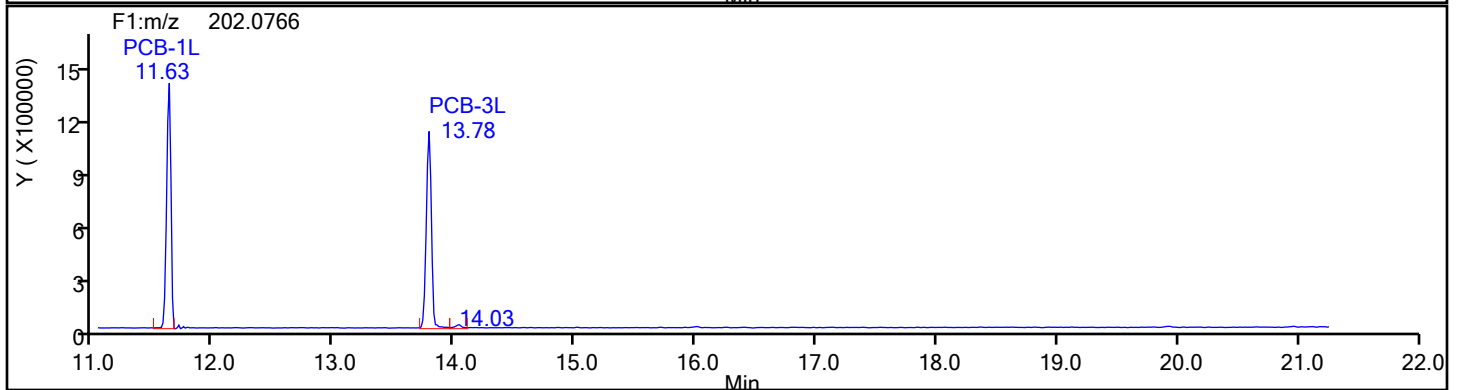
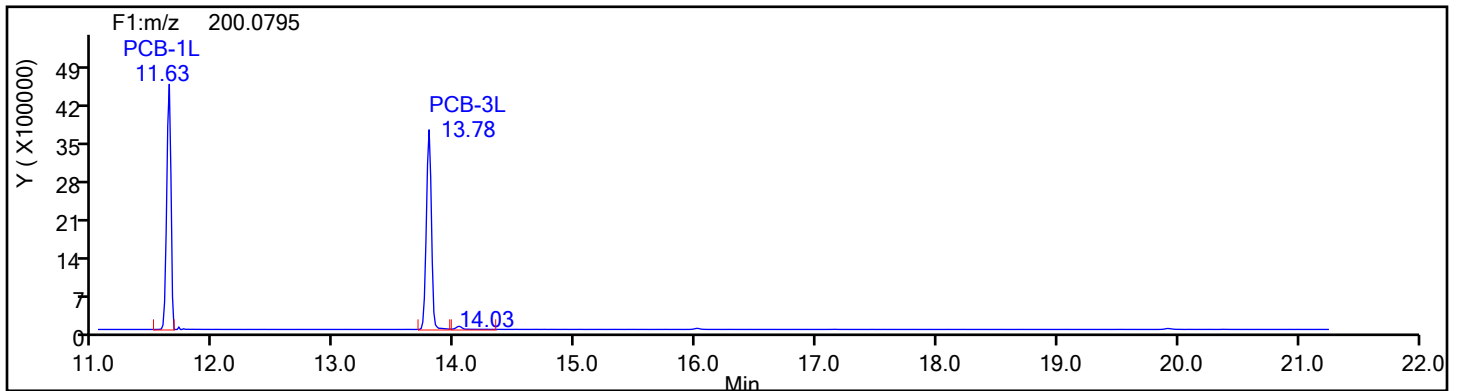
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

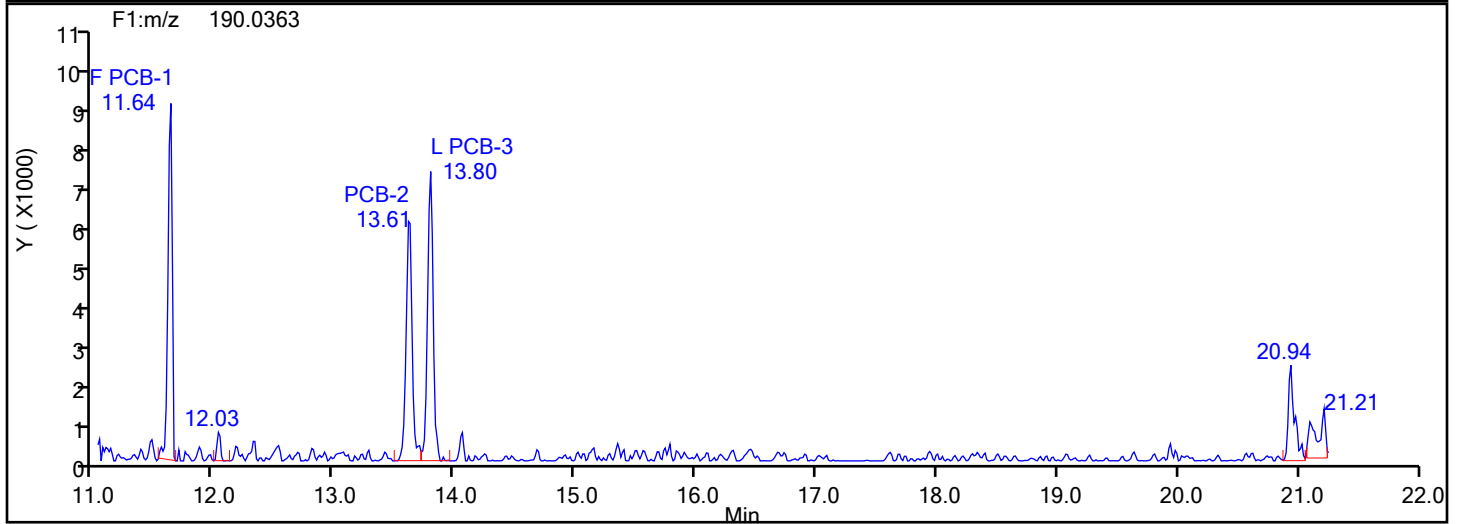
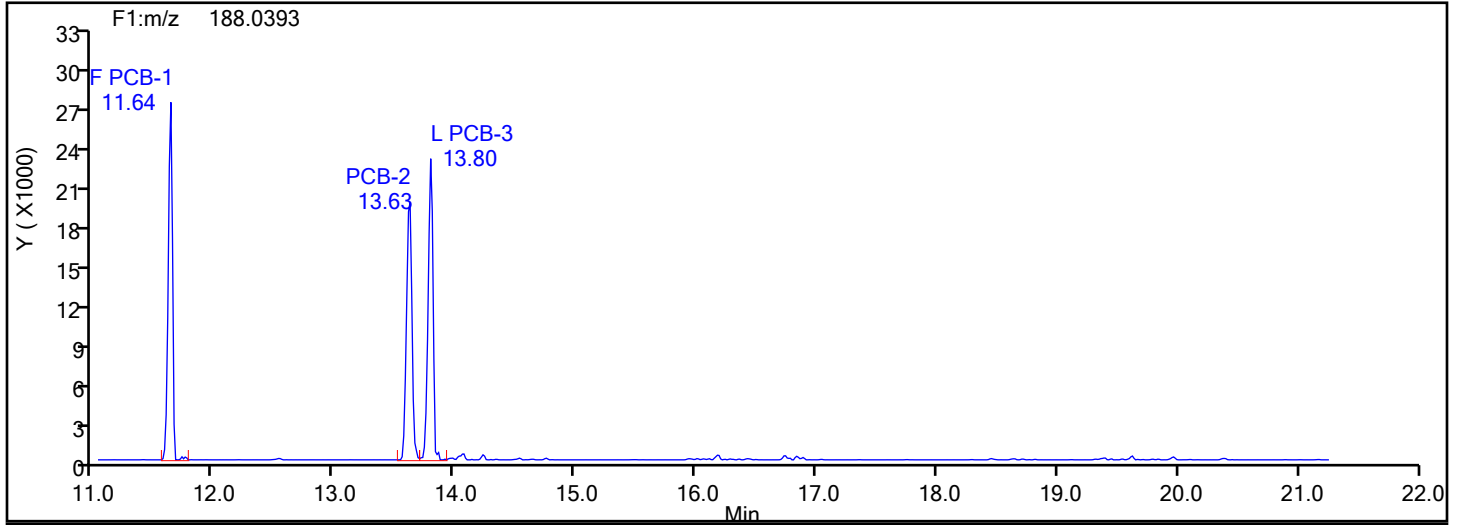
Worklist#: 87130

Sample Line#: 1

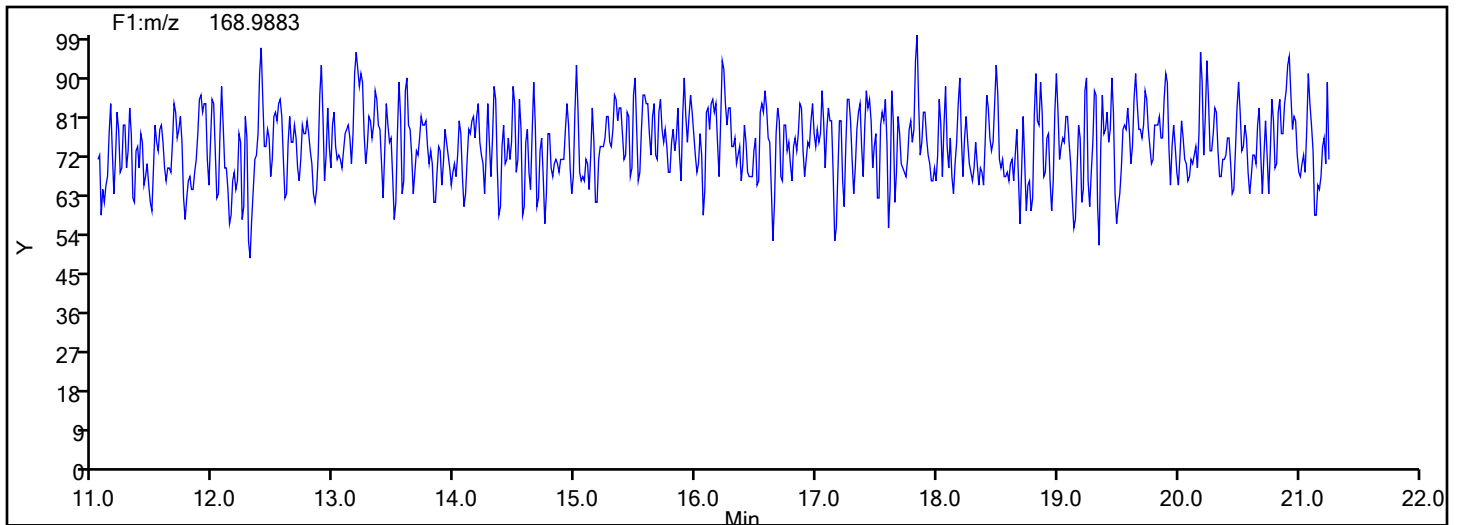
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

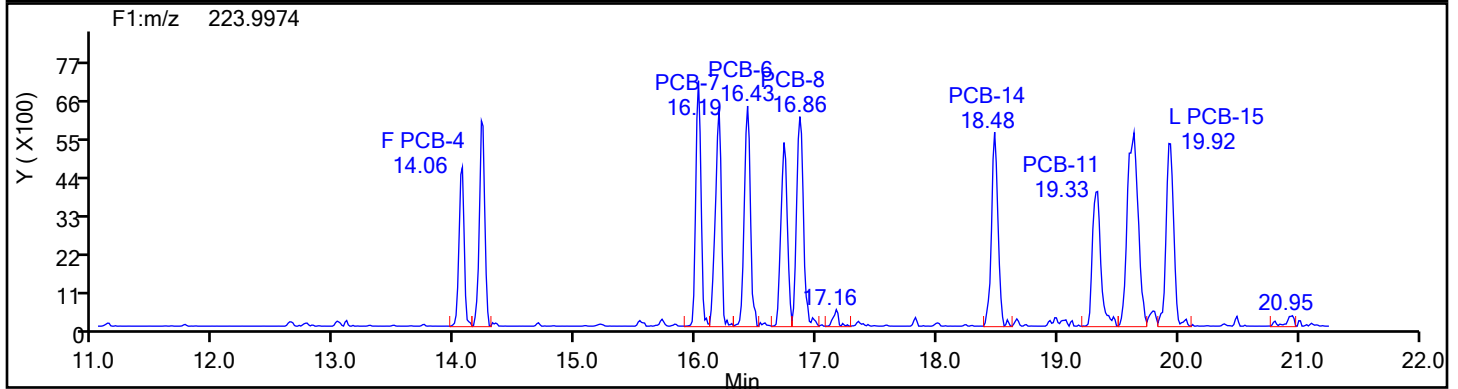
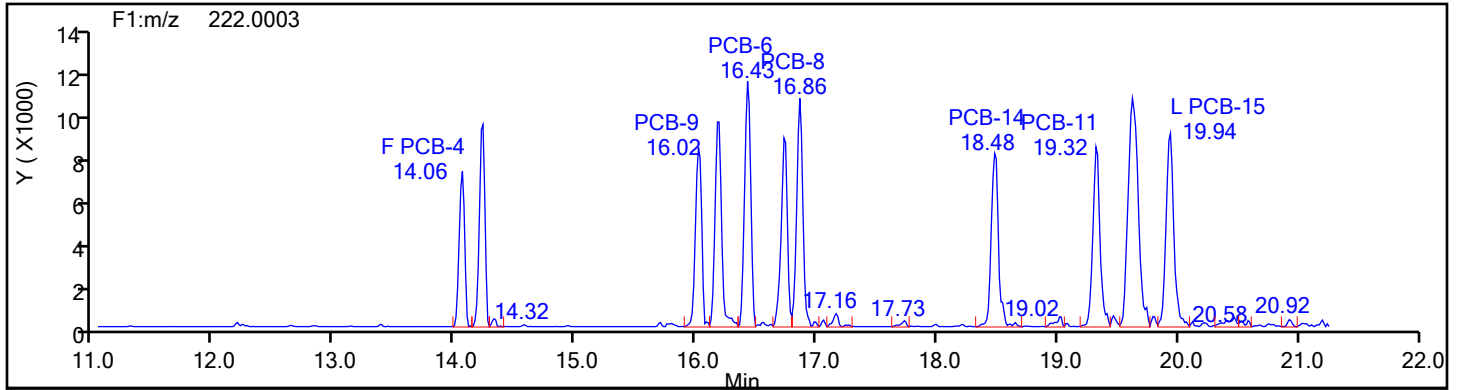
Worklist#: 87130

Sample Line#: 1

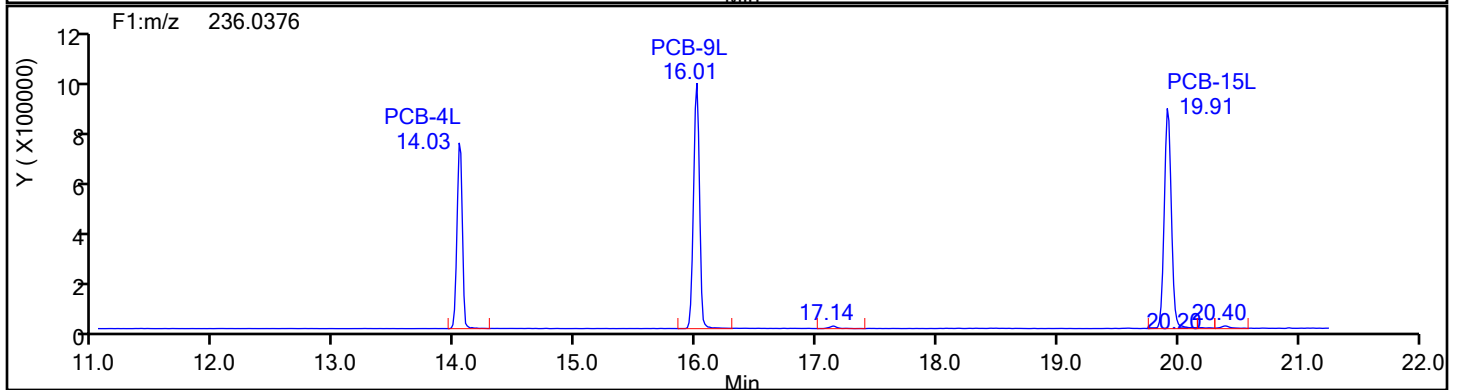
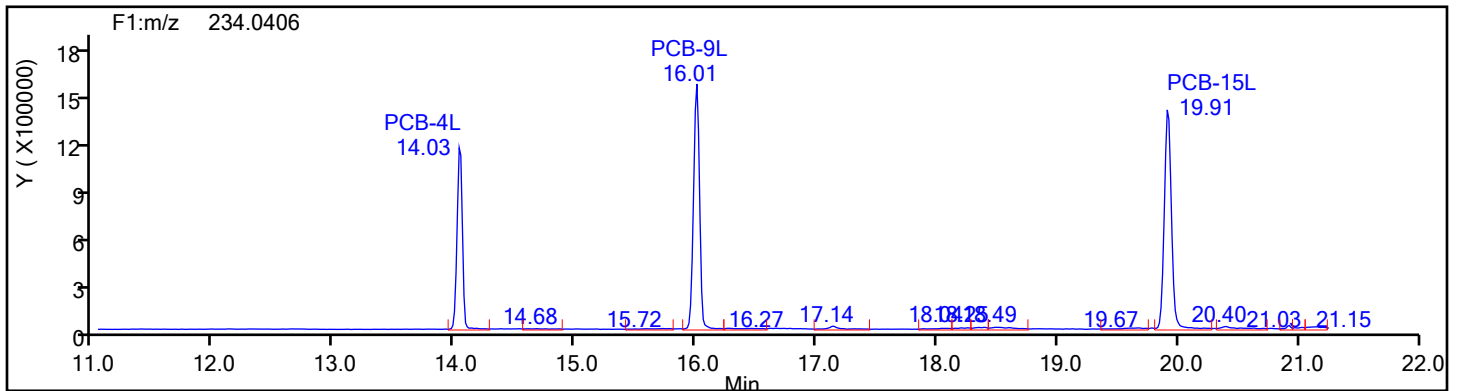
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

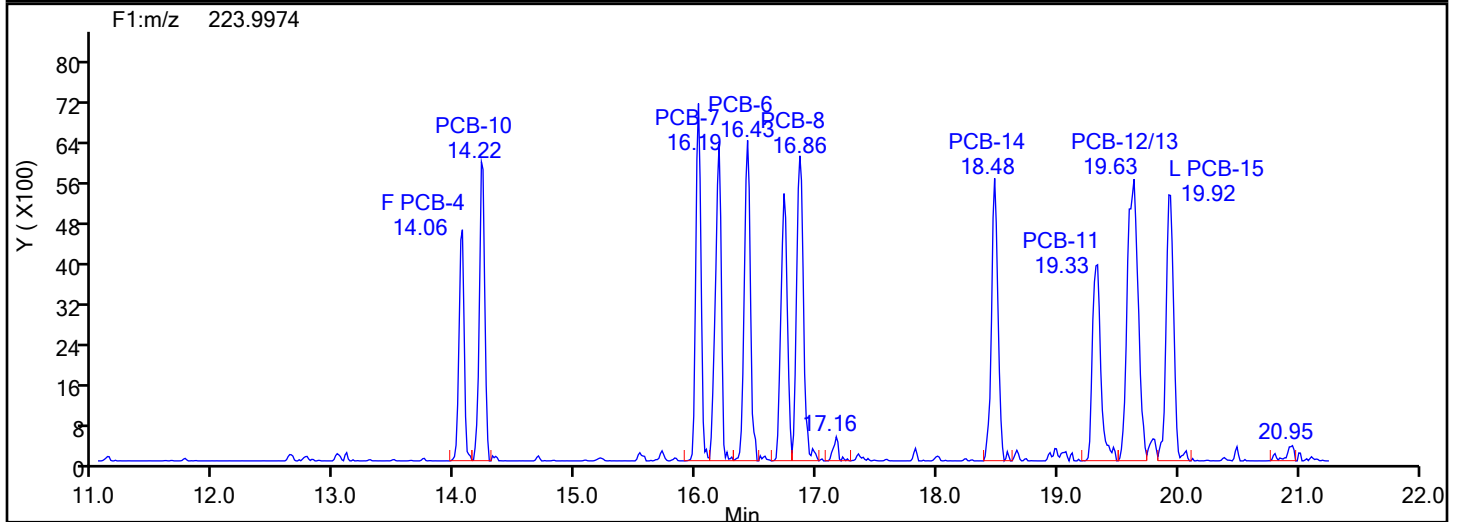
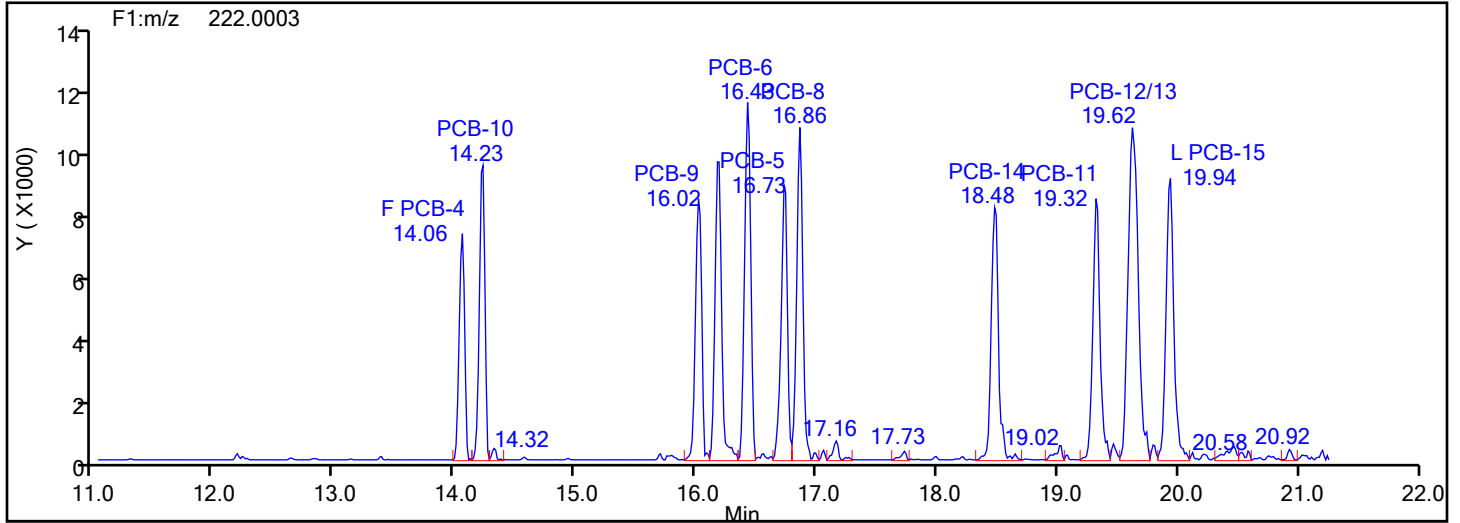
Worklist#: 87130

Sample Line#: 1

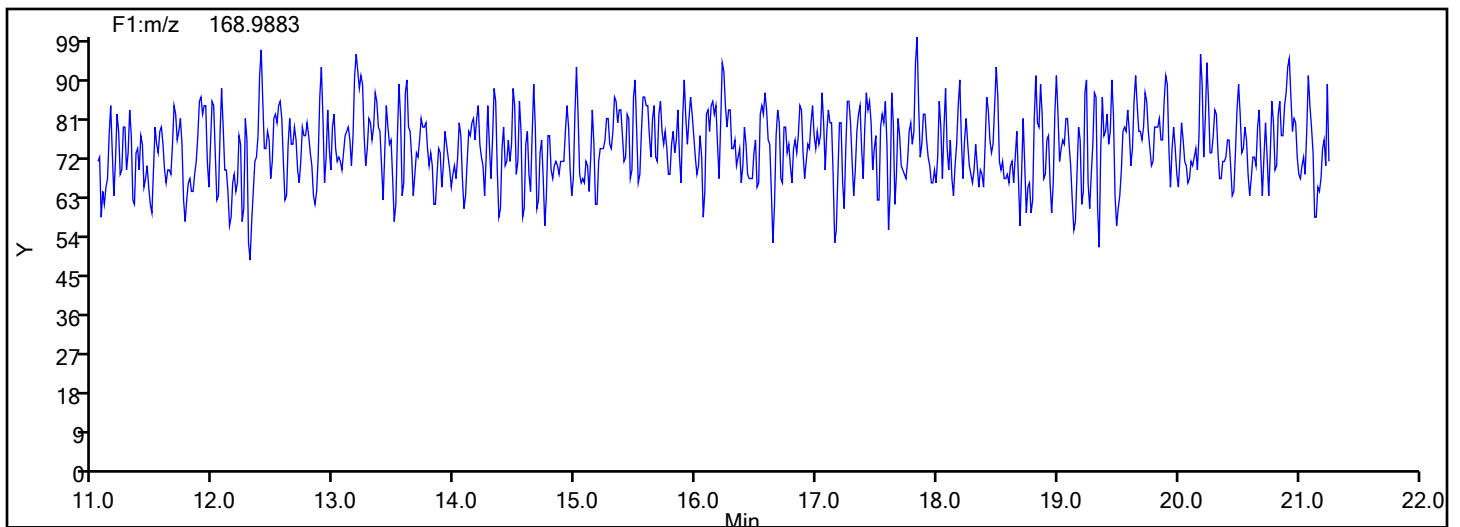
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

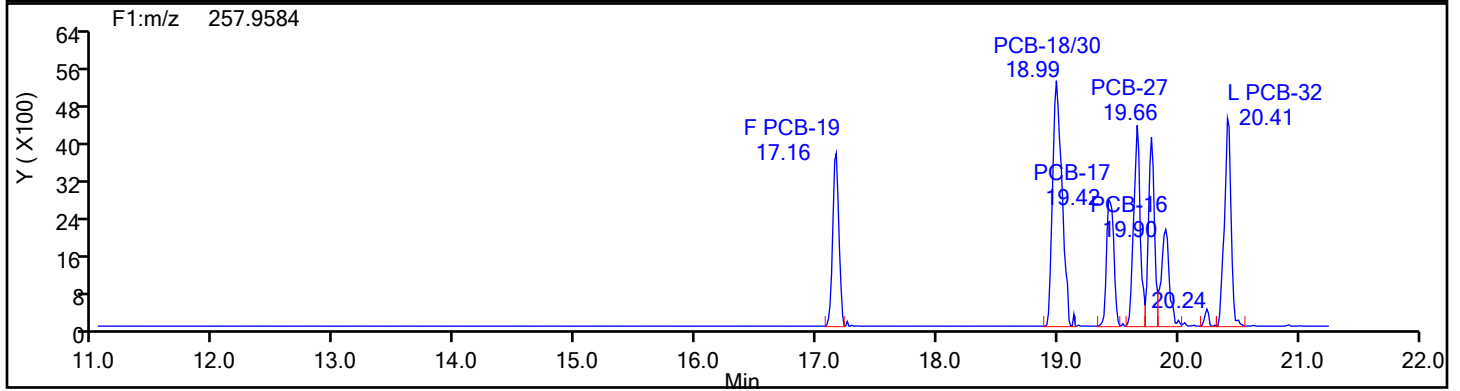
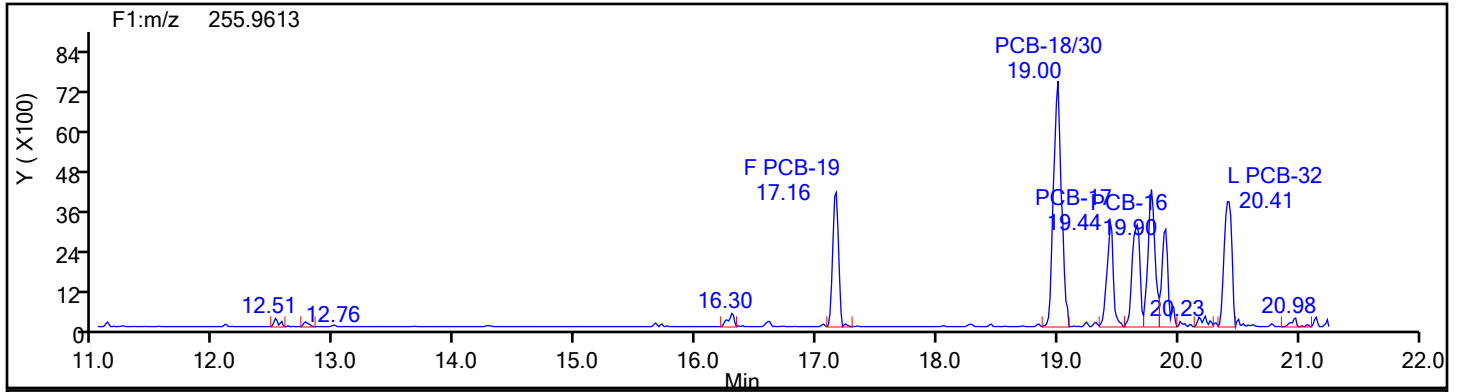
Worklist#: 87130

Sample Line#: 1

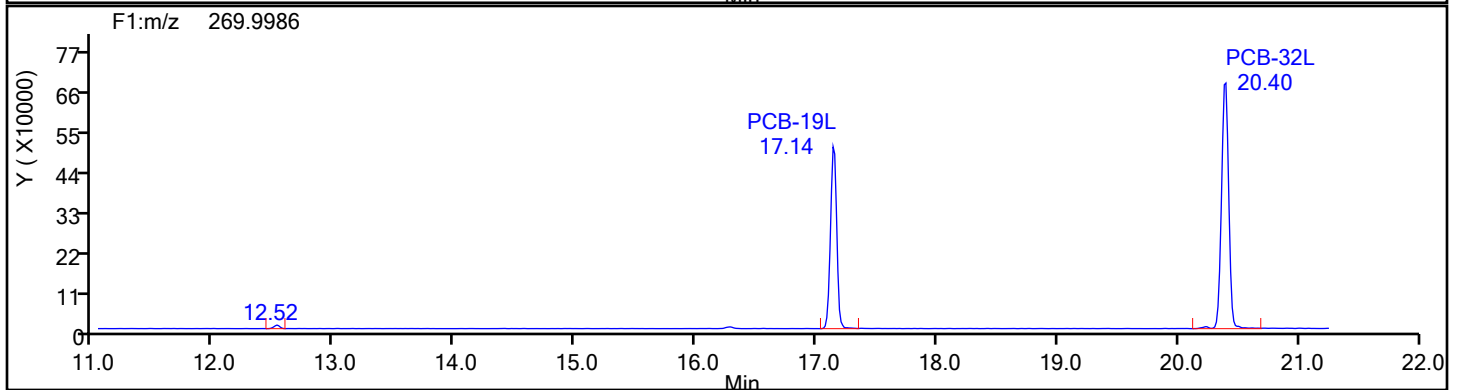
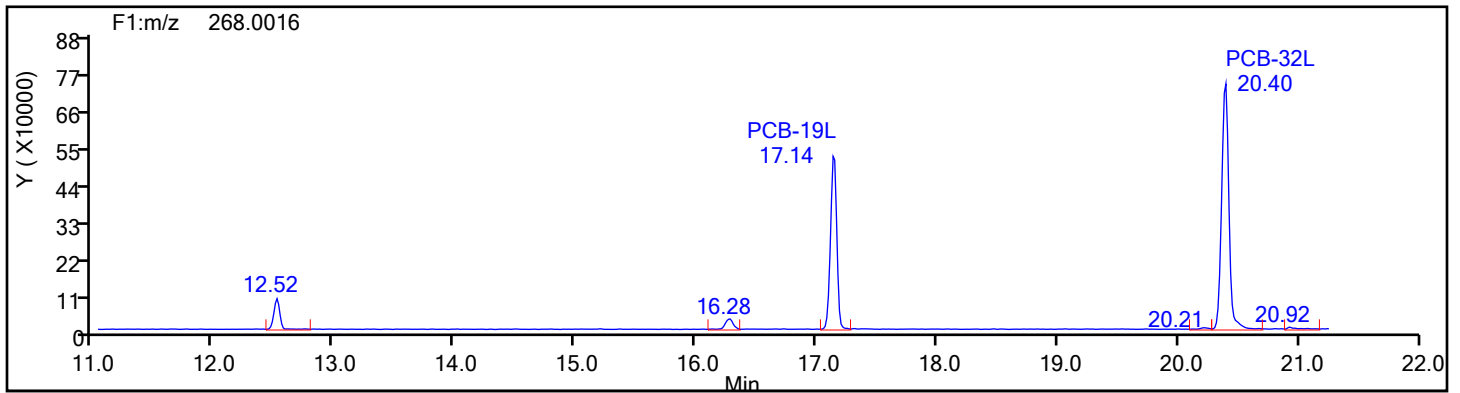
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

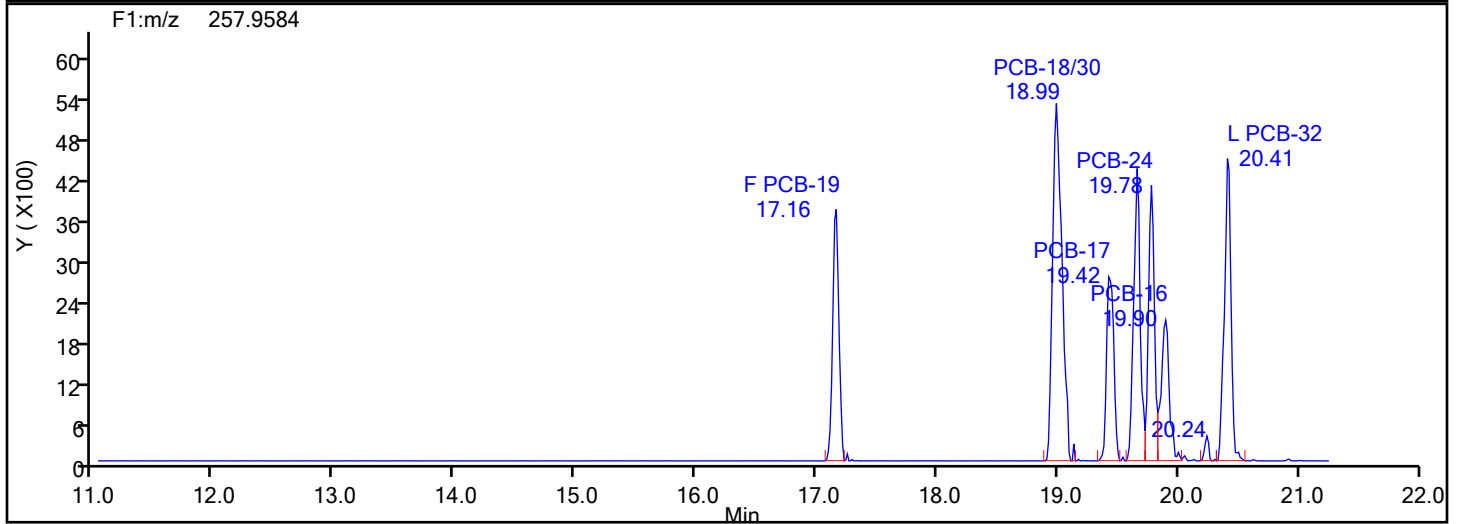
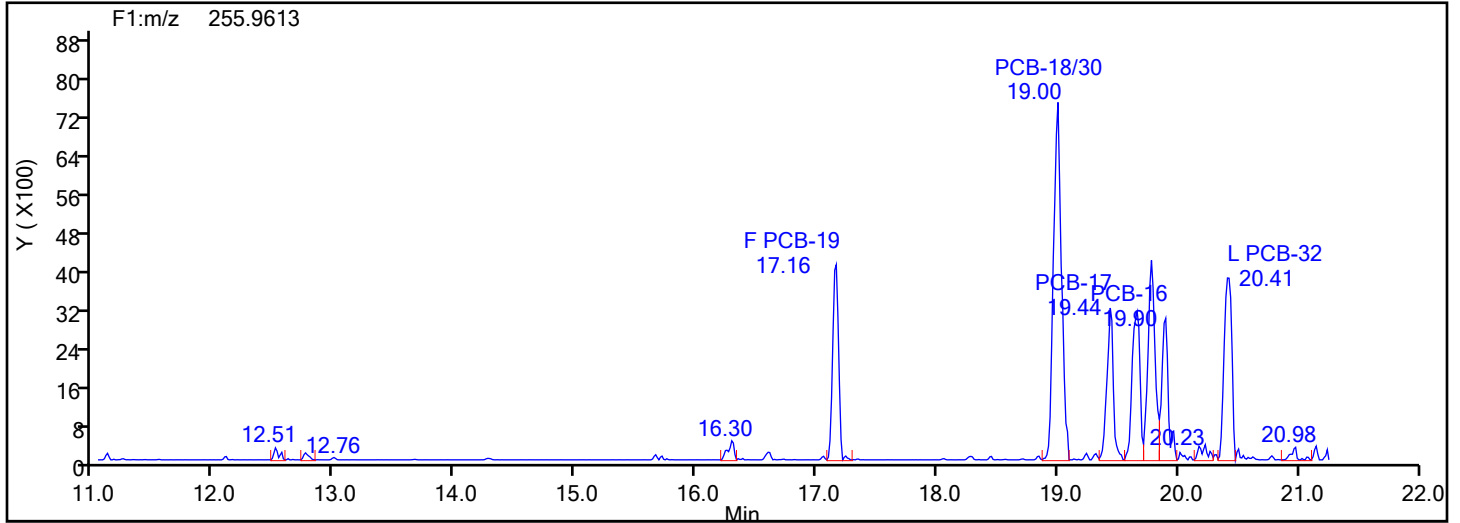
Worklist#: 87130

Sample Line#: 1

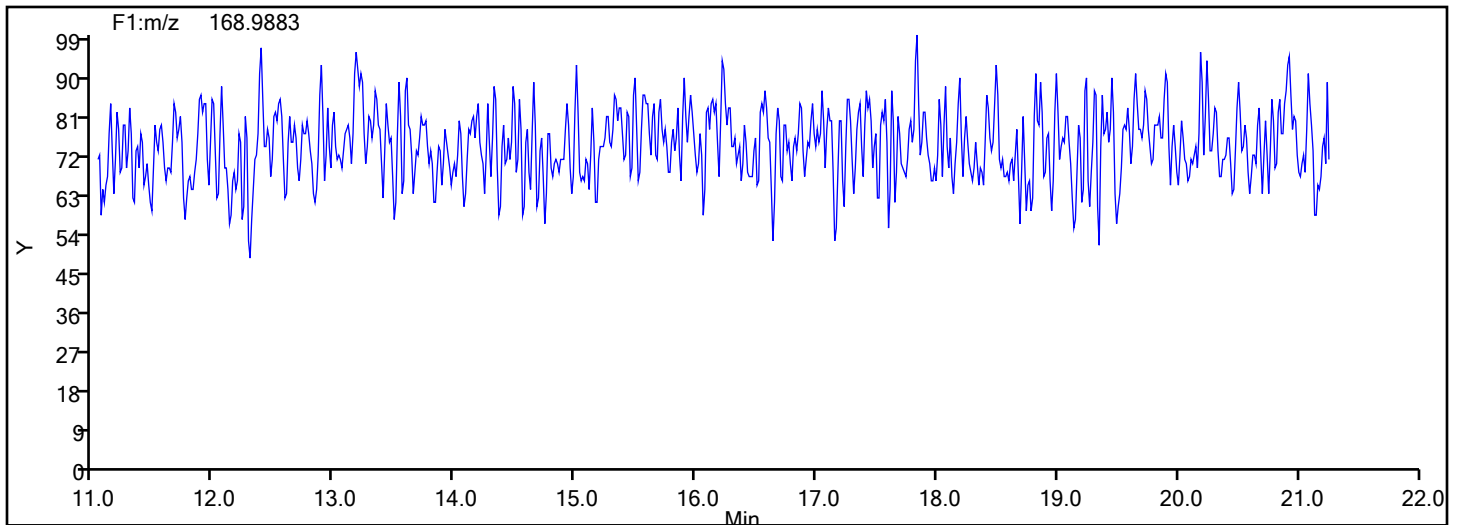
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

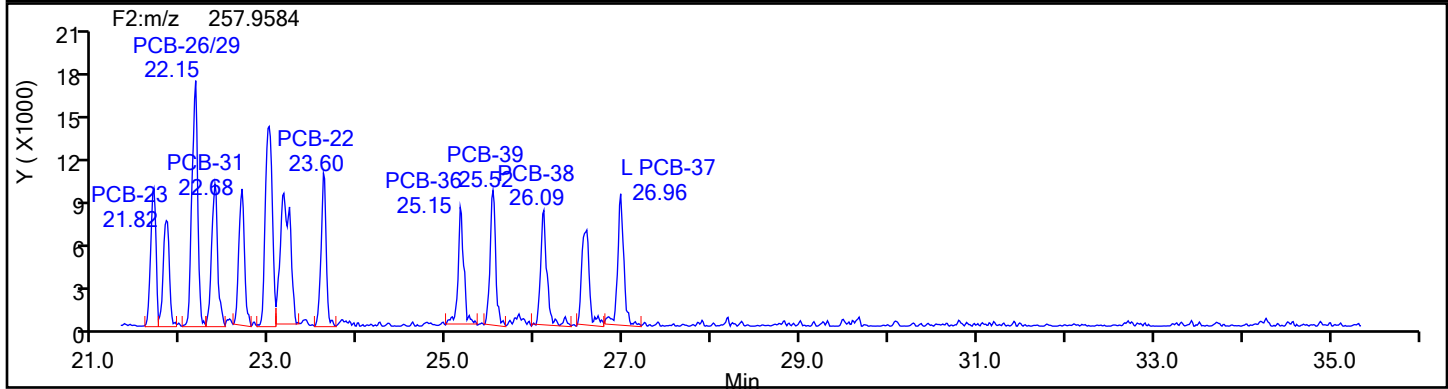
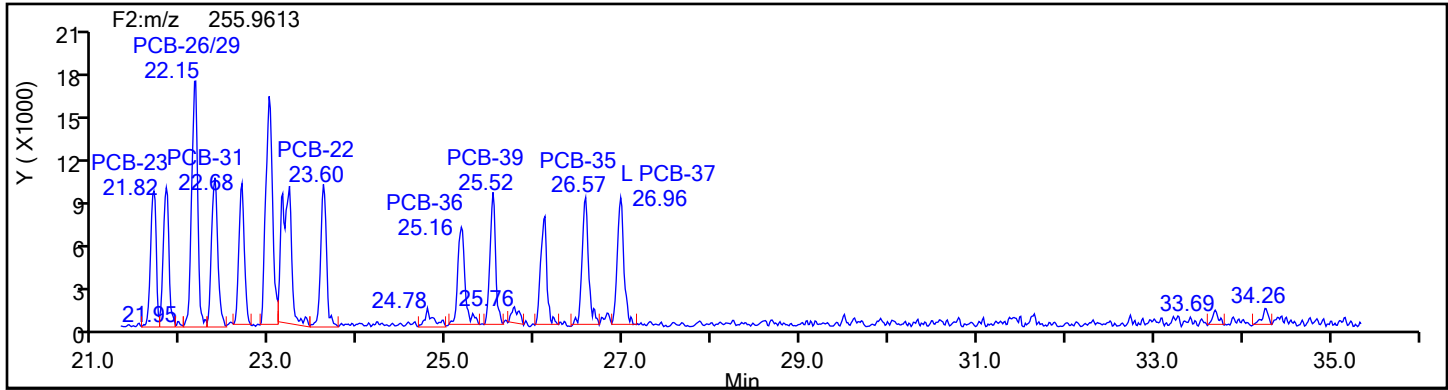
Worklist#: 87130

Sample Line#: 1

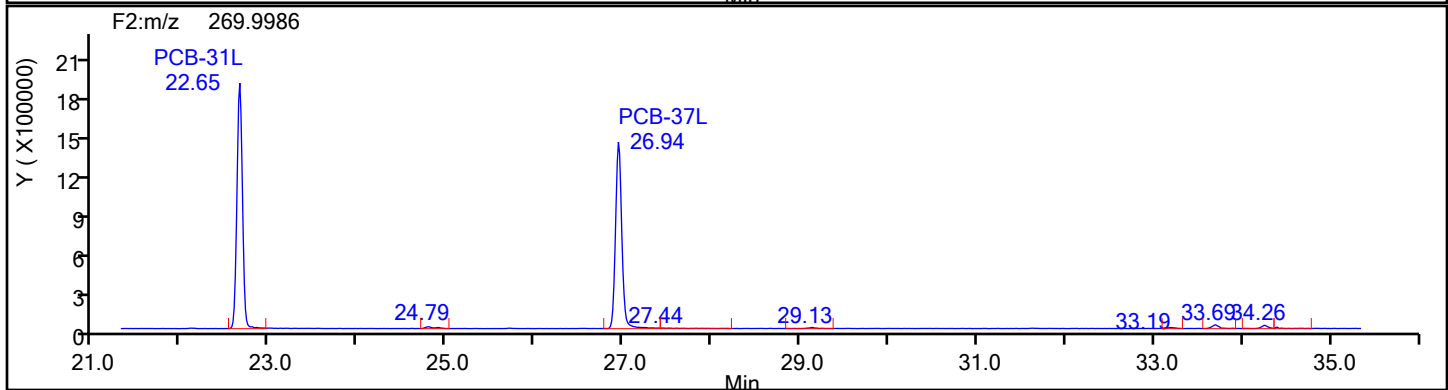
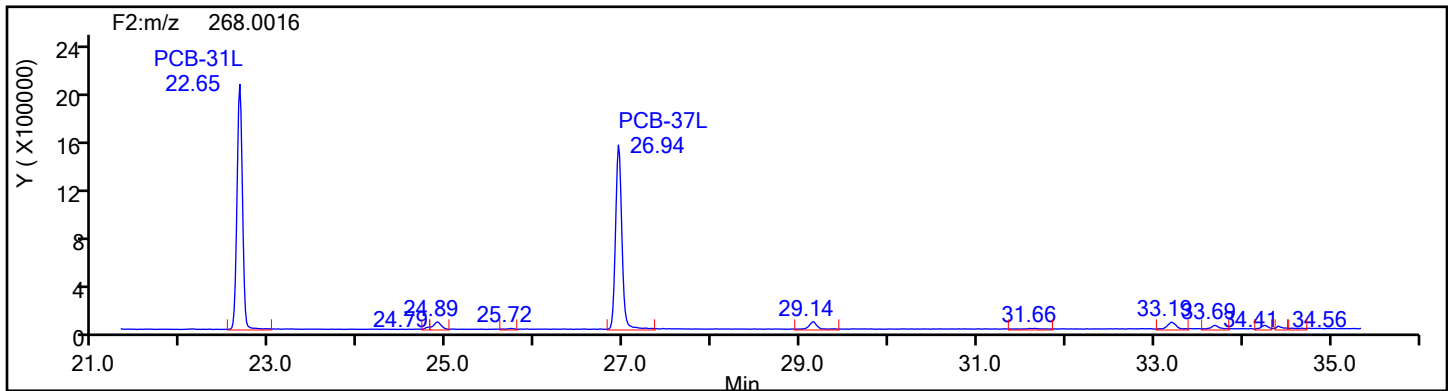
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

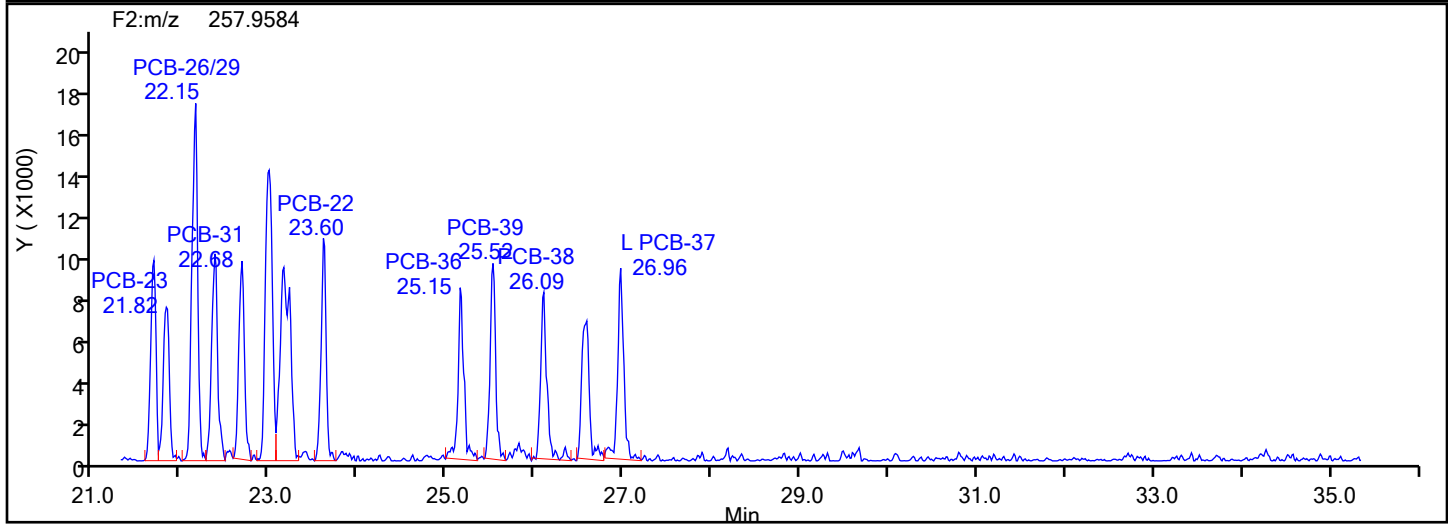
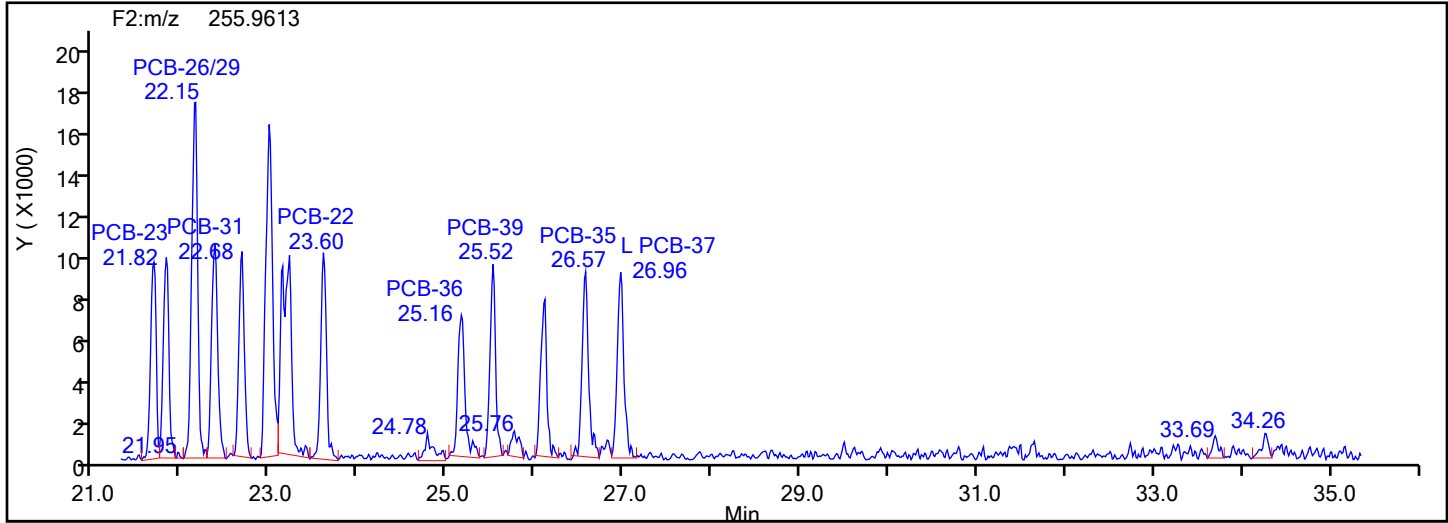
Worklist#: 87130

Sample Line#: 1

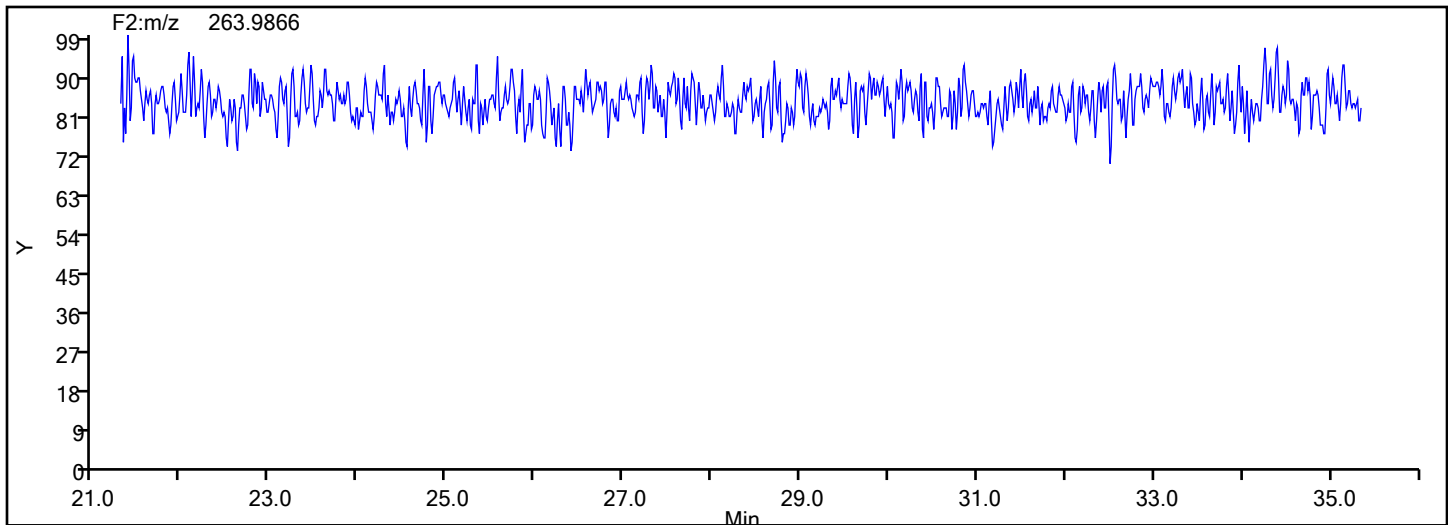
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

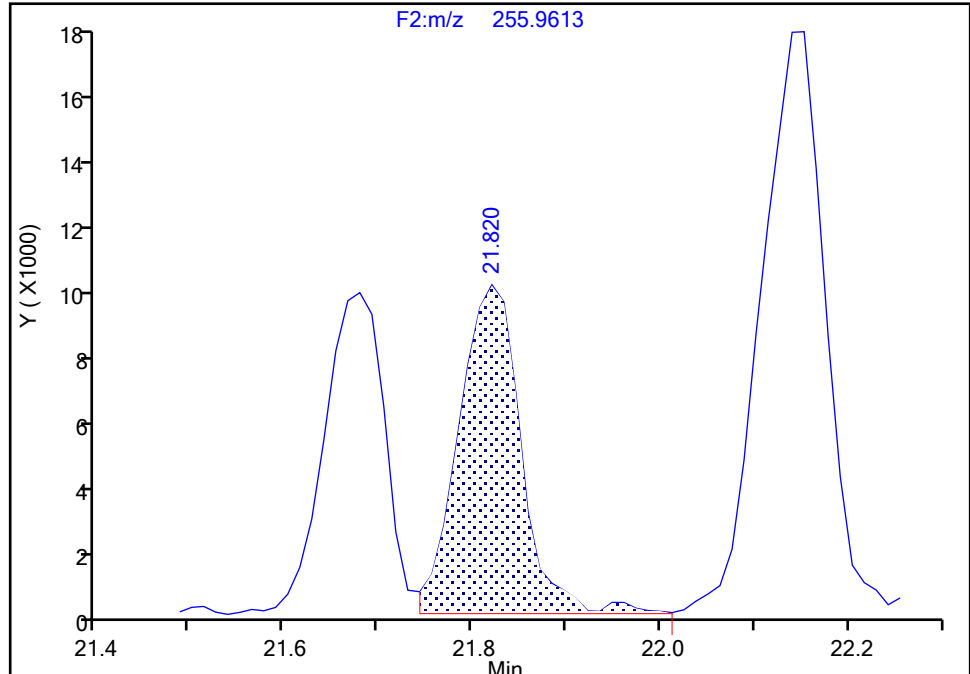
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-23, CAS: 55720-44-0

Signal: 1

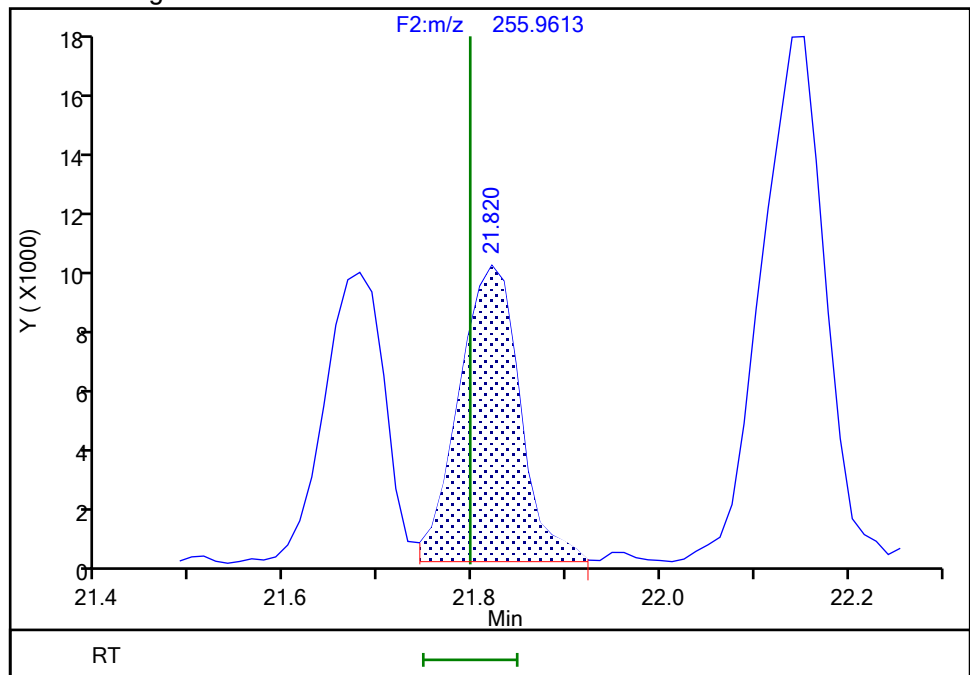
RT: 21.82
Area: 43858
Amount: 0.502763
Amount Units: pg/ul

Processing Integration Results



RT: 21.82
Area: 43162
Amount: 0.501518
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:26:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

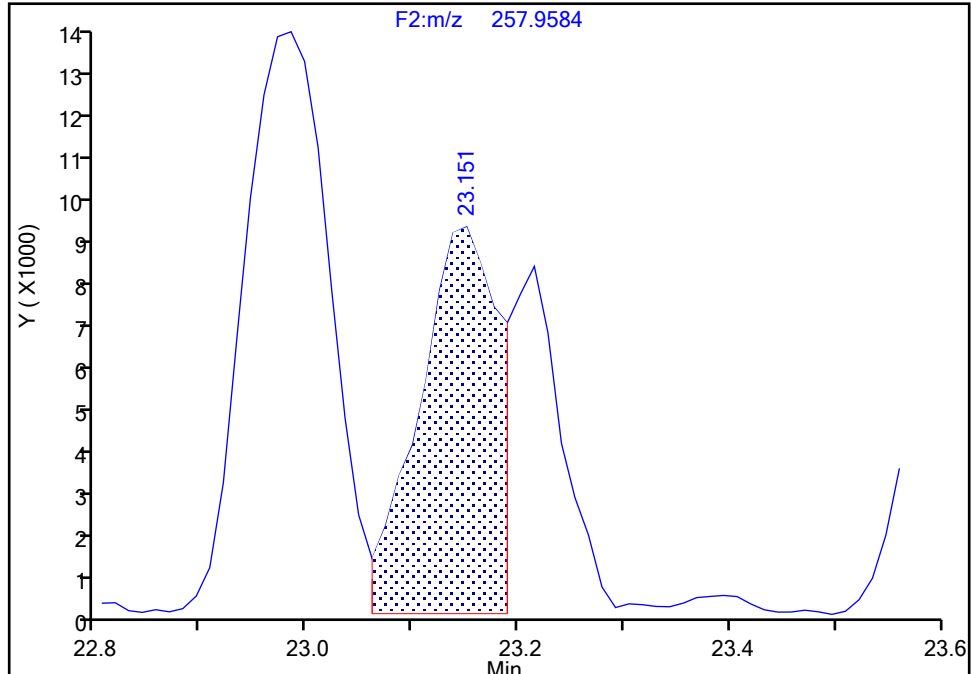
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

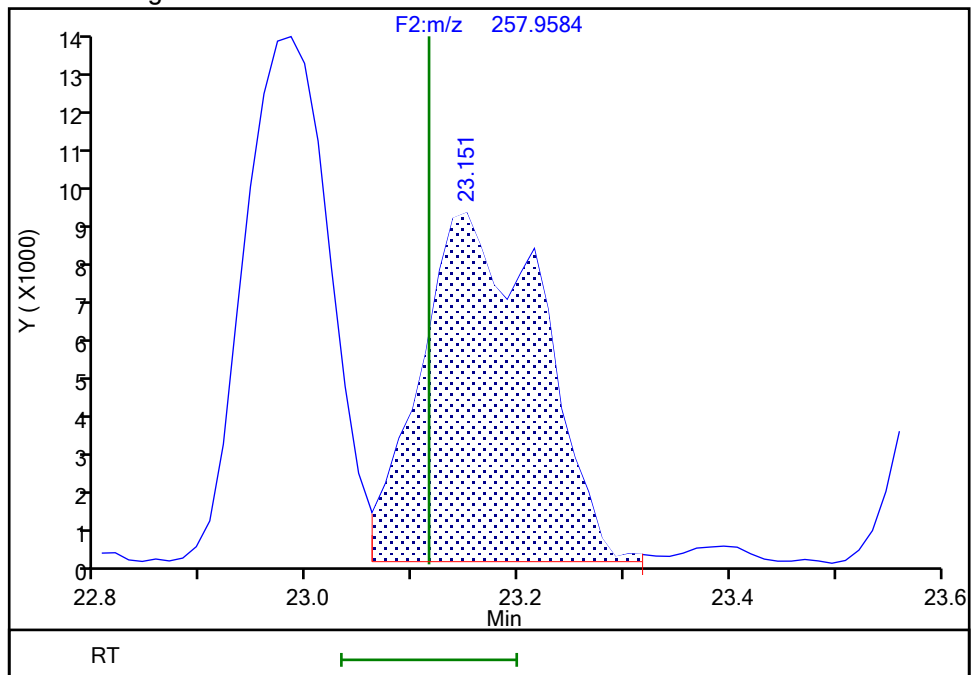
RT: 23.15
Area: 46648
Amount: 0.505312
Amount Units: pg/ul

Processing Integration Results



RT: 23.15
Area: 73943
Amount: 0.947469
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:28:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

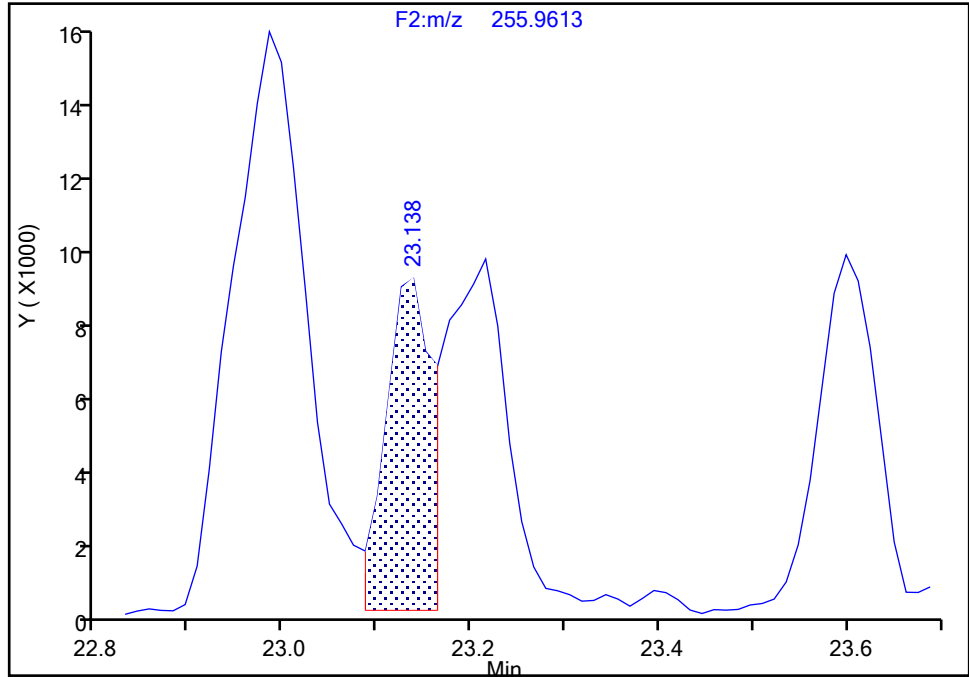
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

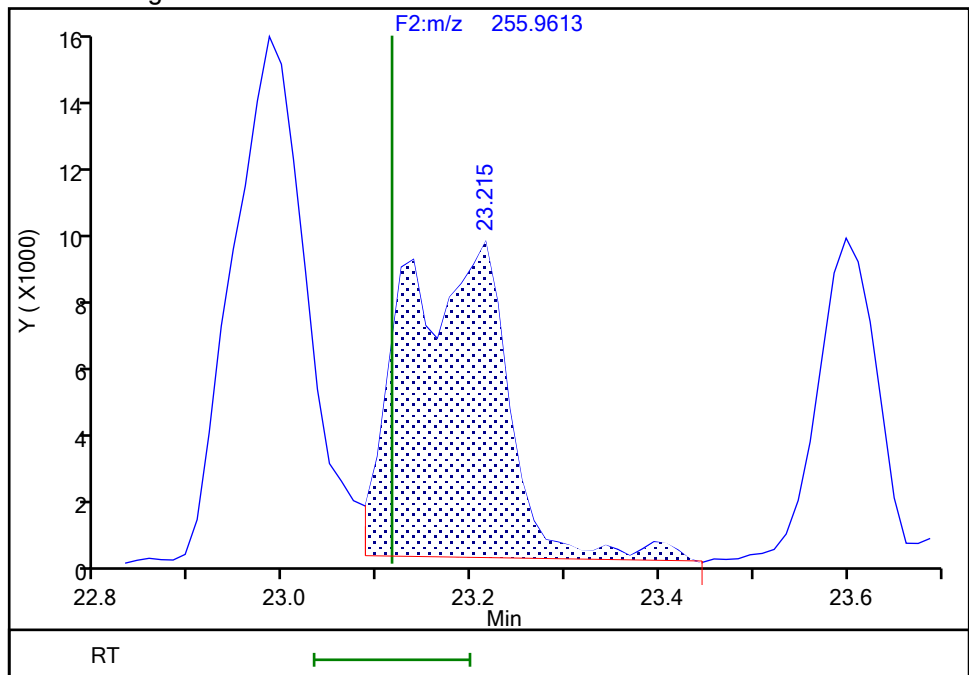
RT: 23.14
Area: 29388
Amount: 0.505312
Amount Units: pg/ul

Processing Integration Results



RT: 23.21
Area: 73767
Amount: 0.947469
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1748 of 3050

BASFWC-McIntosh-009749

9/6/2024

4:11:20 PM

Eurofins Knoxville

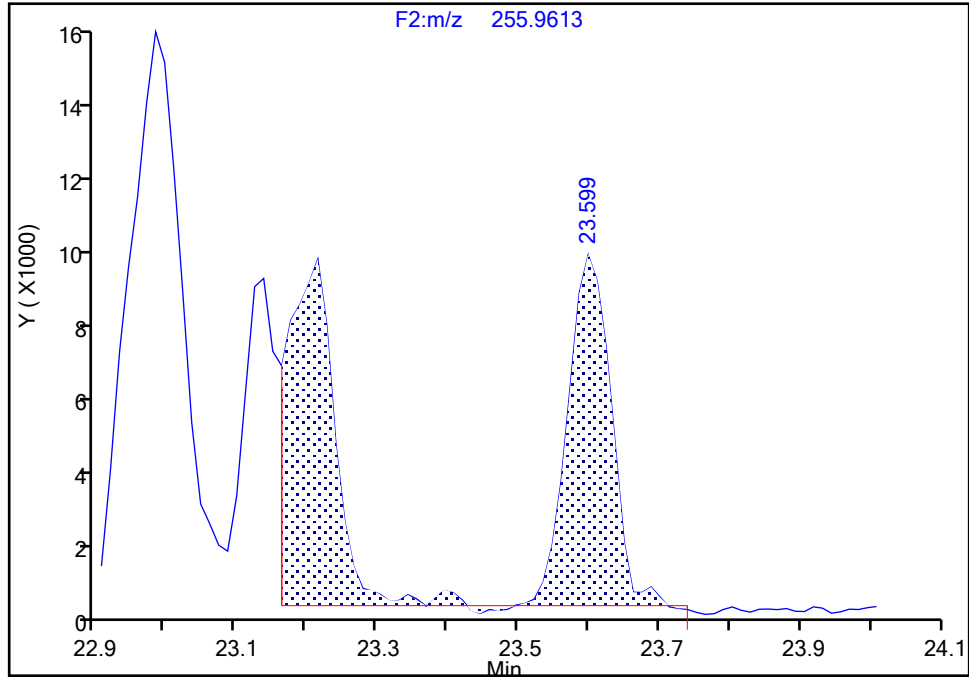
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-22, CAS: 38444-85-8

Signal: 1

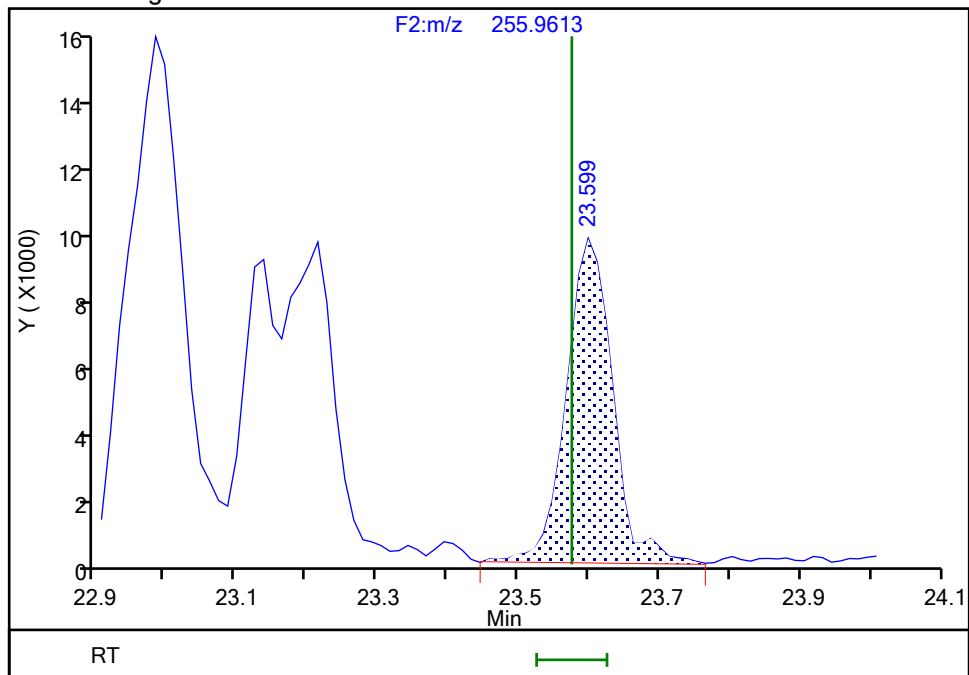
RT: 23.60
Area: 84286
Amount: 0.670944
Amount Units: pg/ul

Processing Integration Results



RT: 23.60
Area: 44761
Amount: 0.505110
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

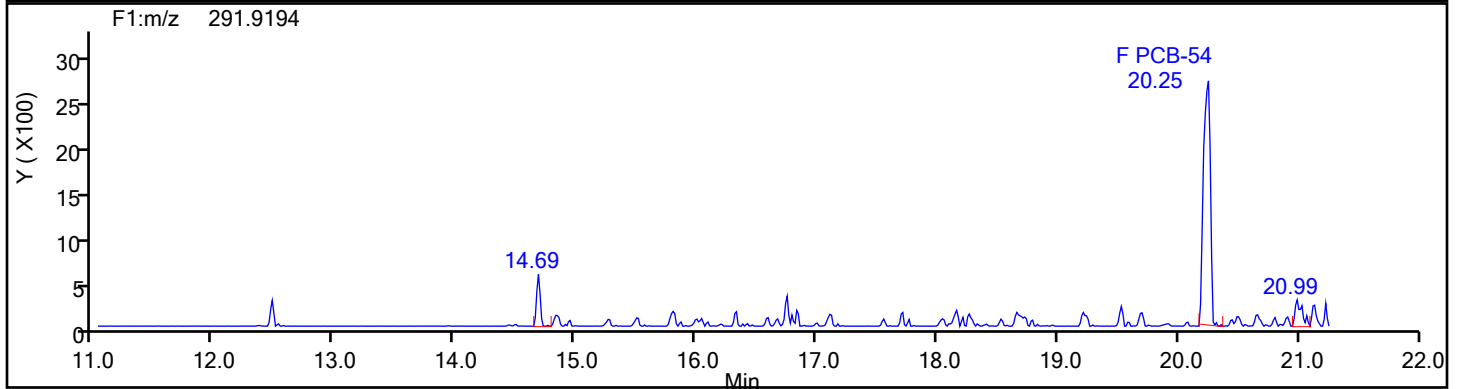
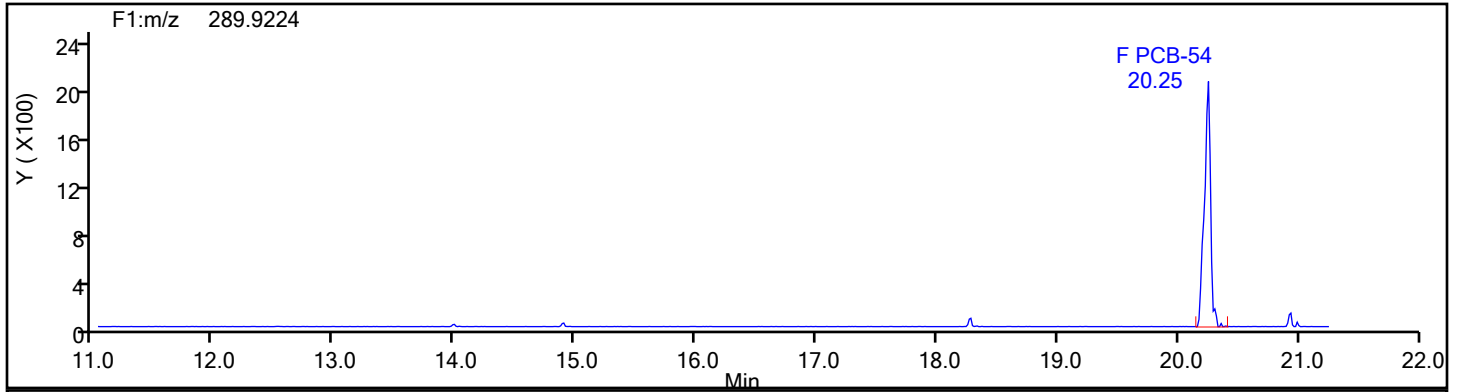
Worklist#: 87130

Sample Line#: 1

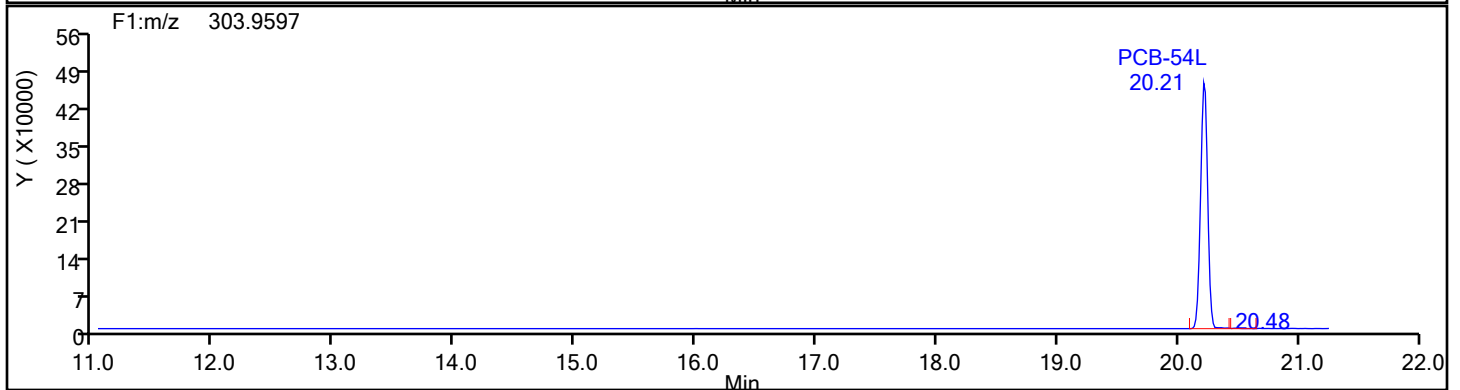
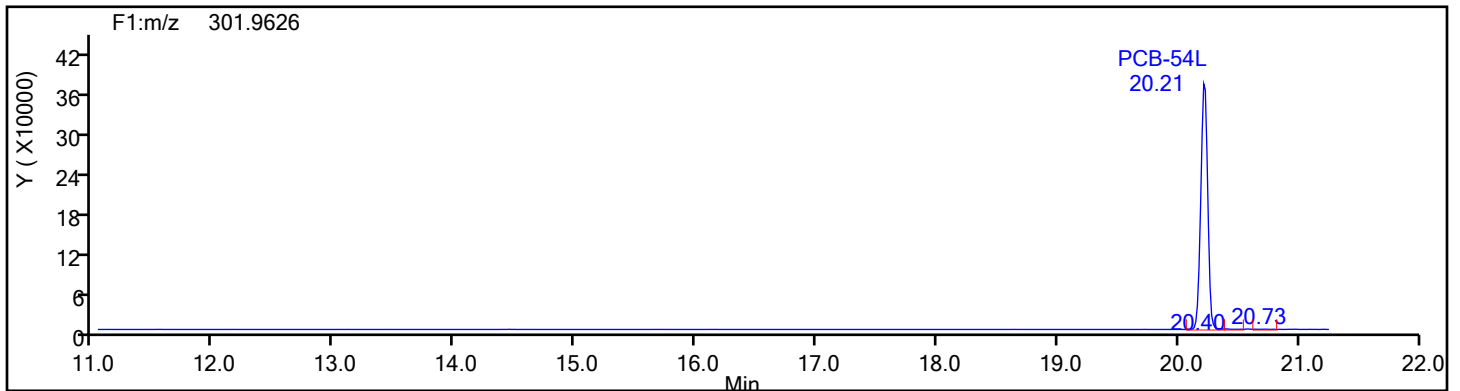
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

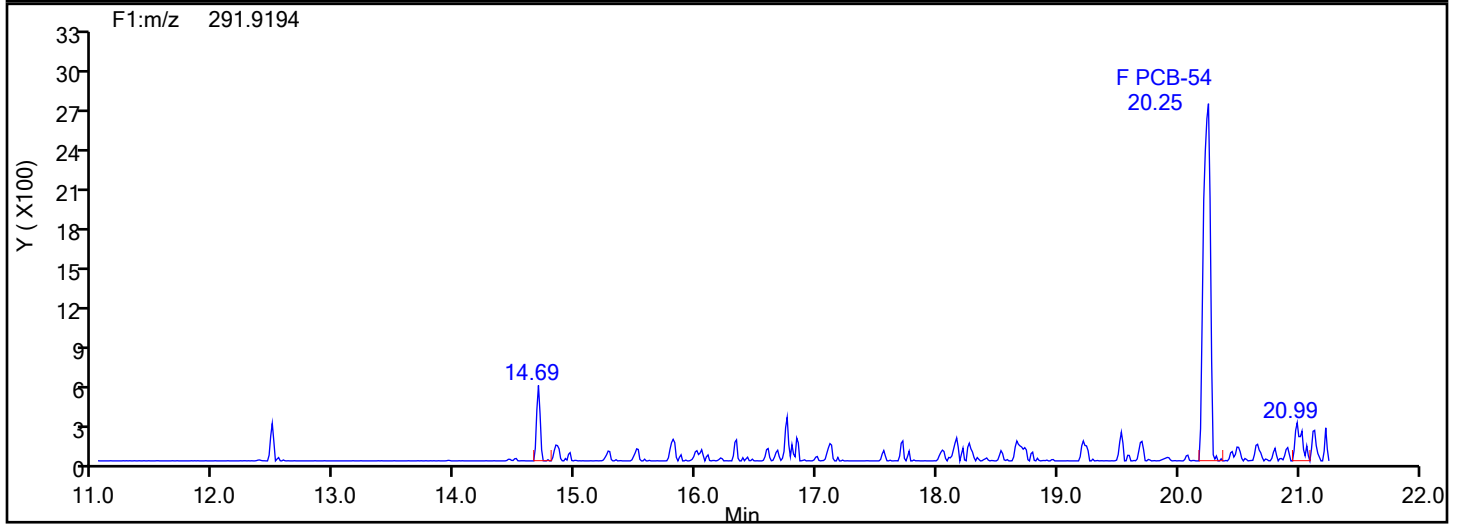
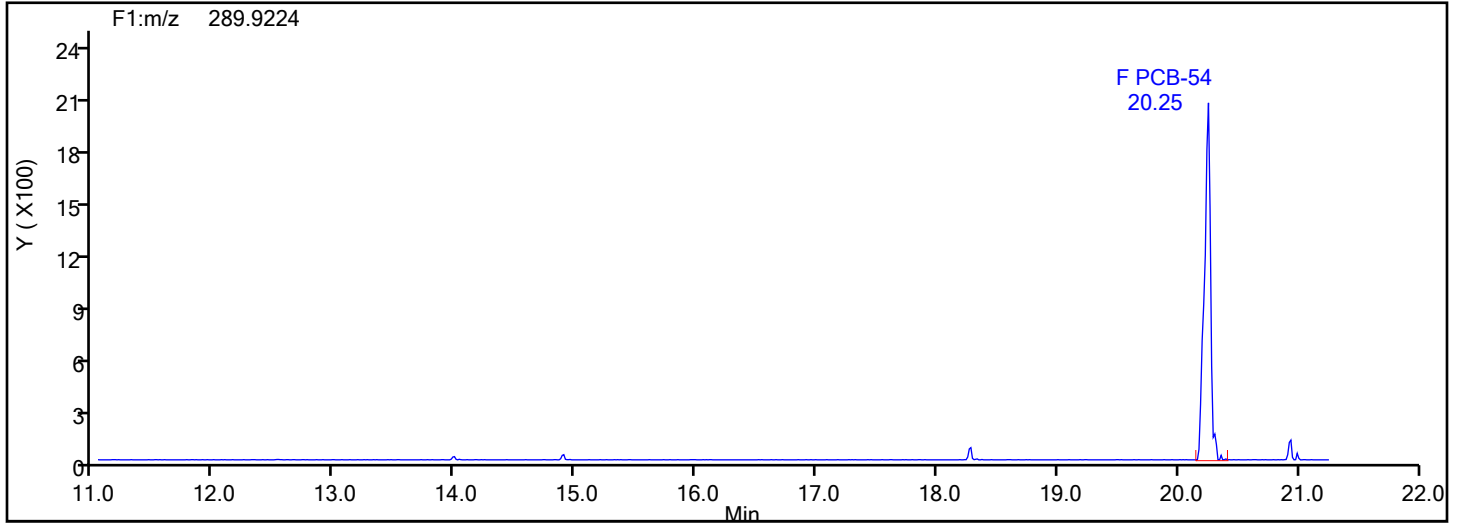
Worklist#: 87130

Sample Line#: 1

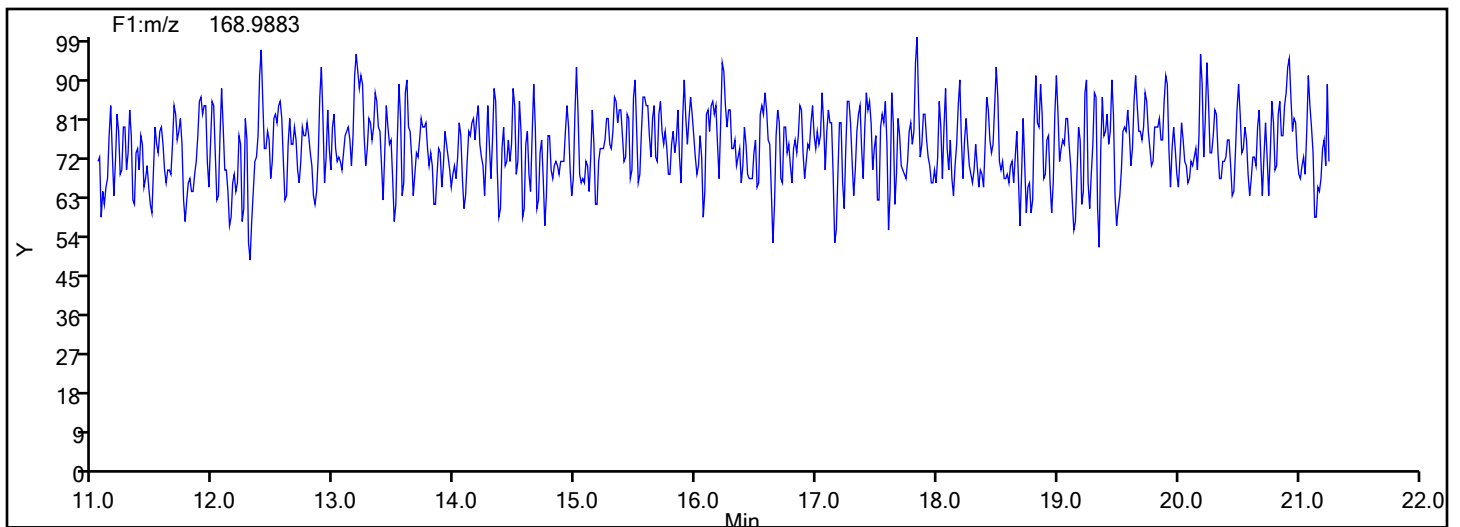
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

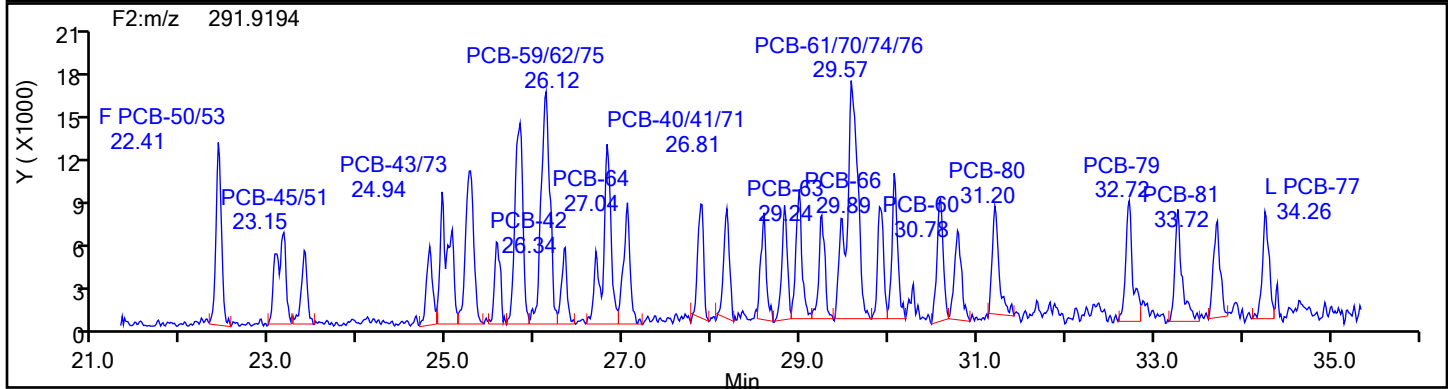
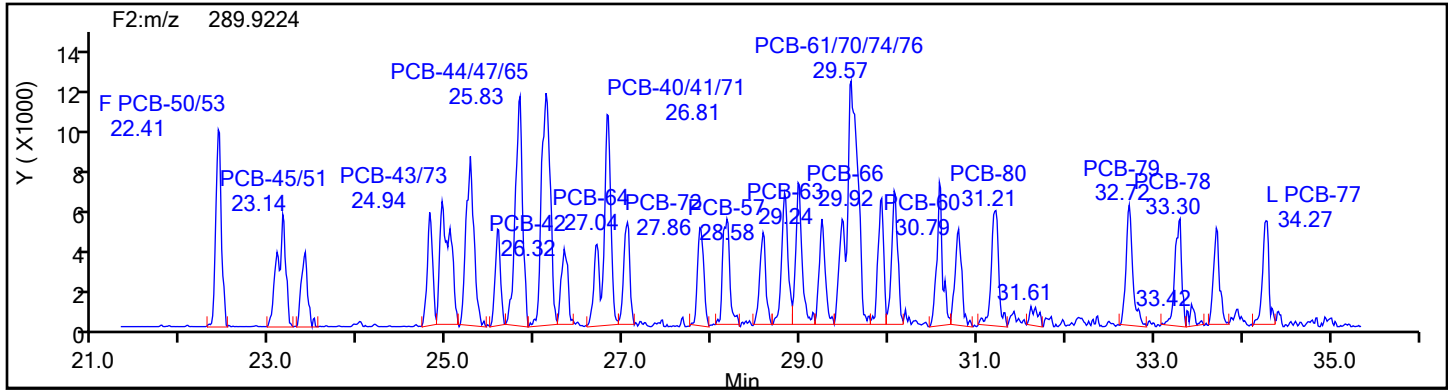
Worklist#: 87130

Sample Line#: 1

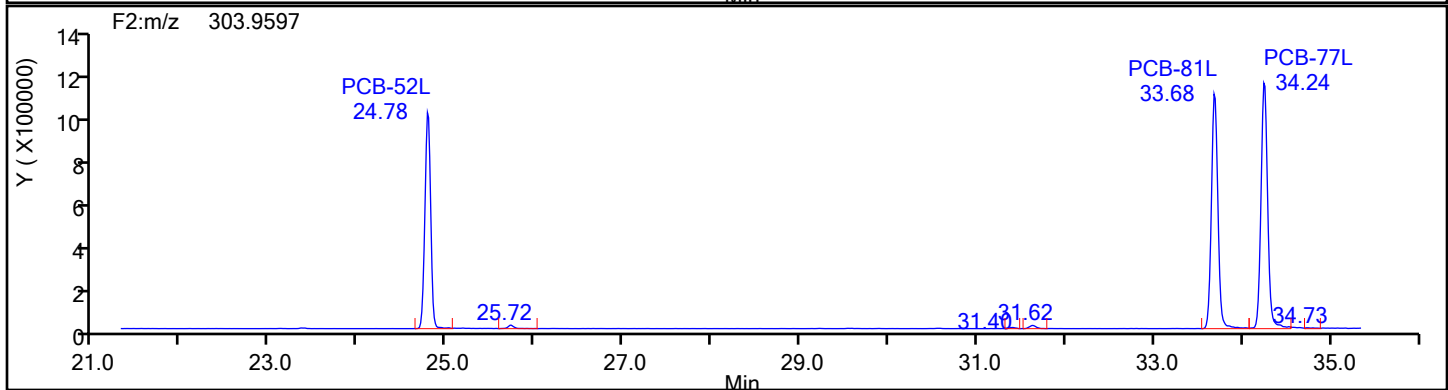
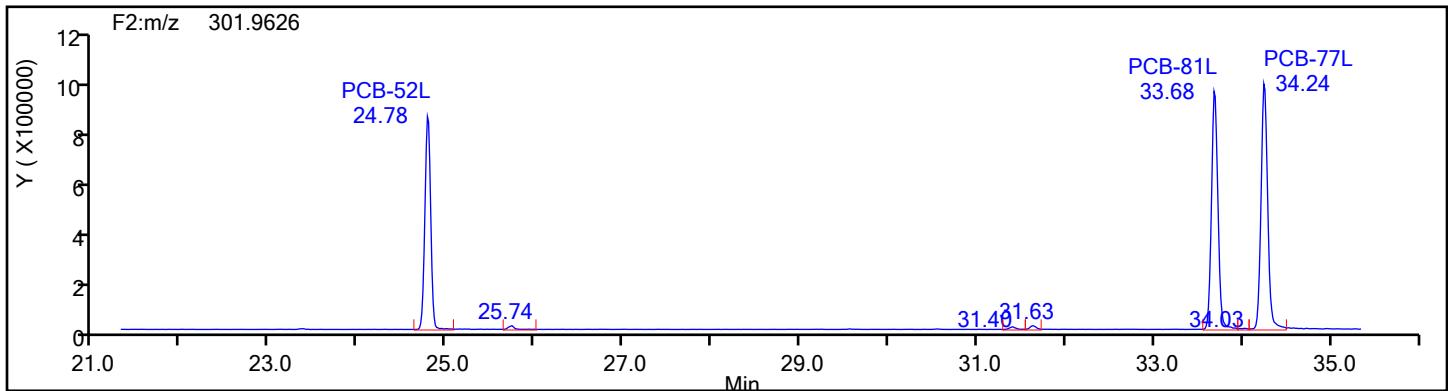
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

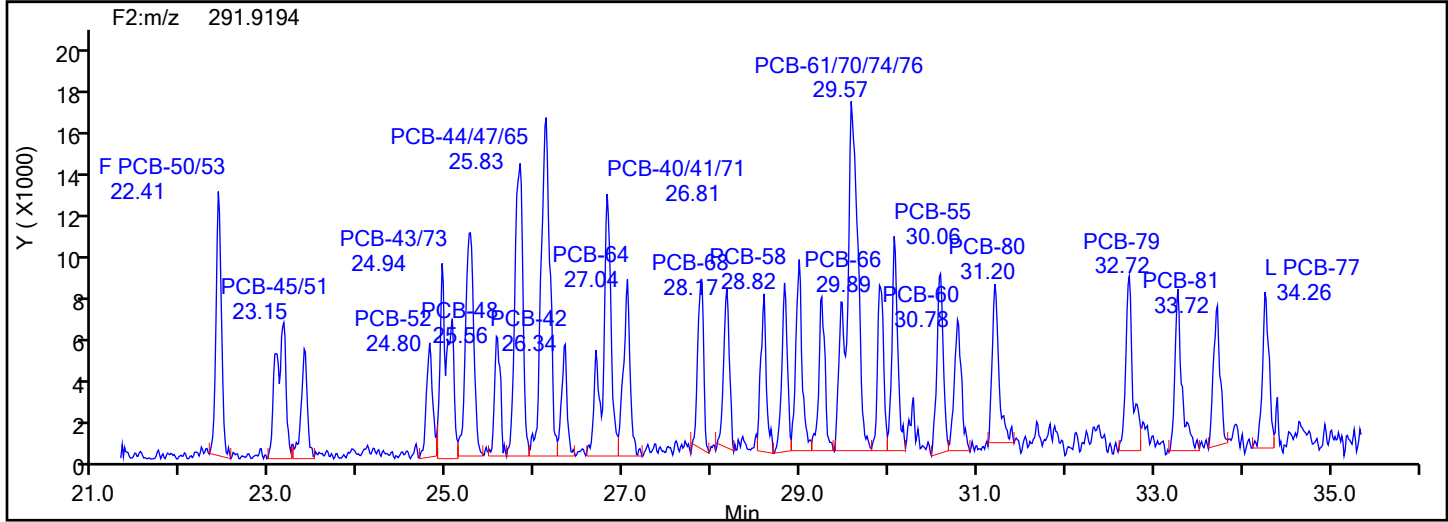
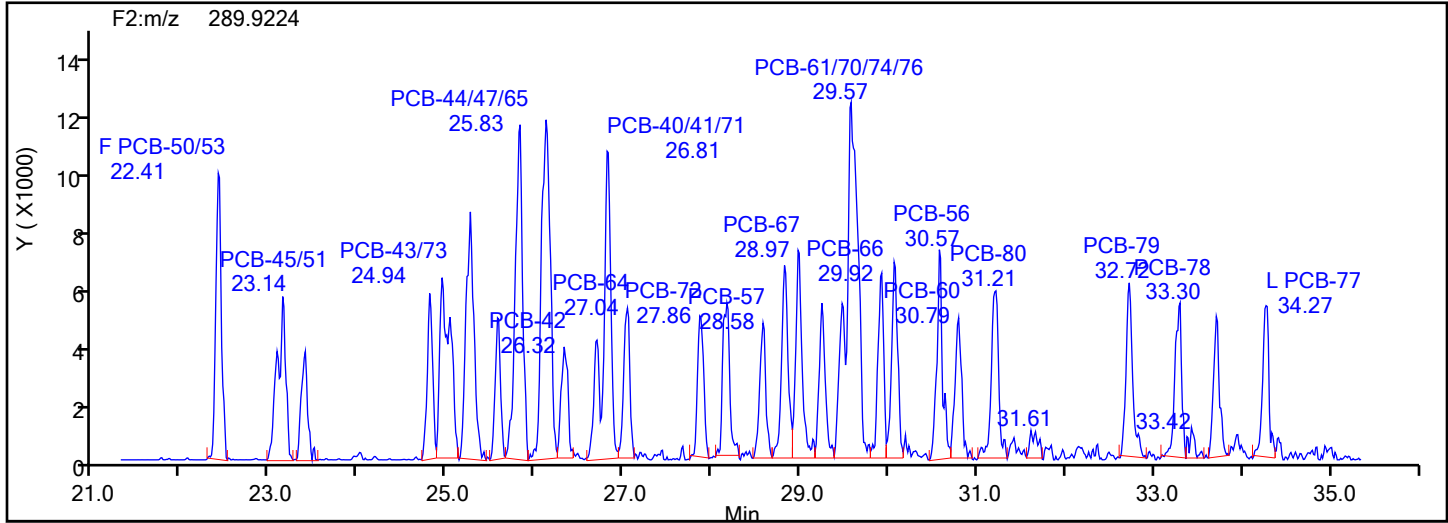
Worklist#: 87130

Sample Line#: 1

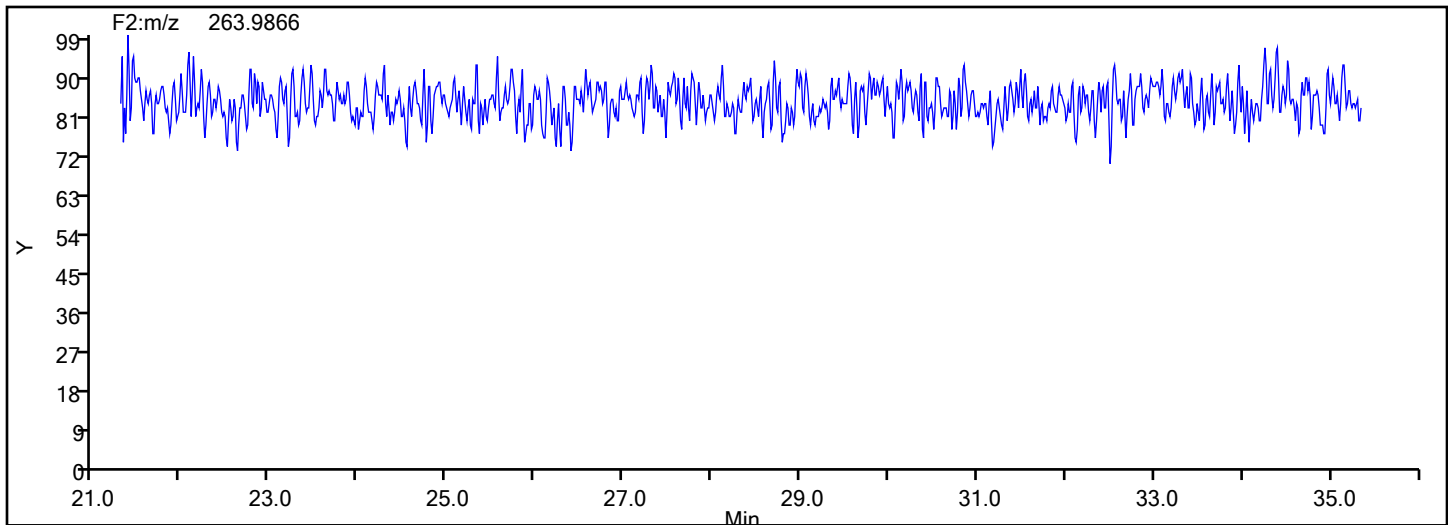
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

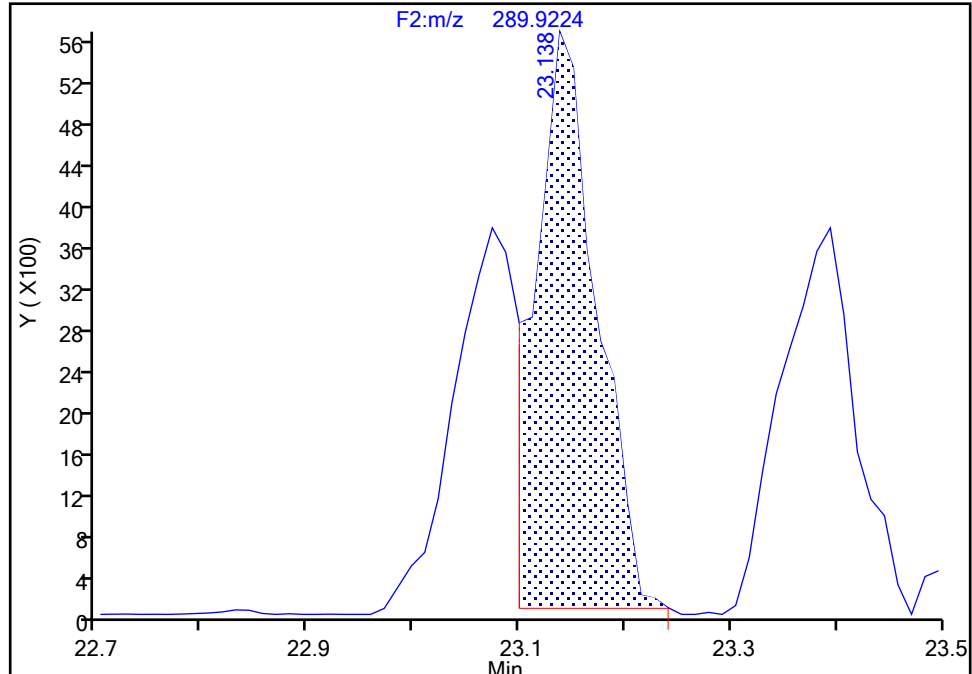
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

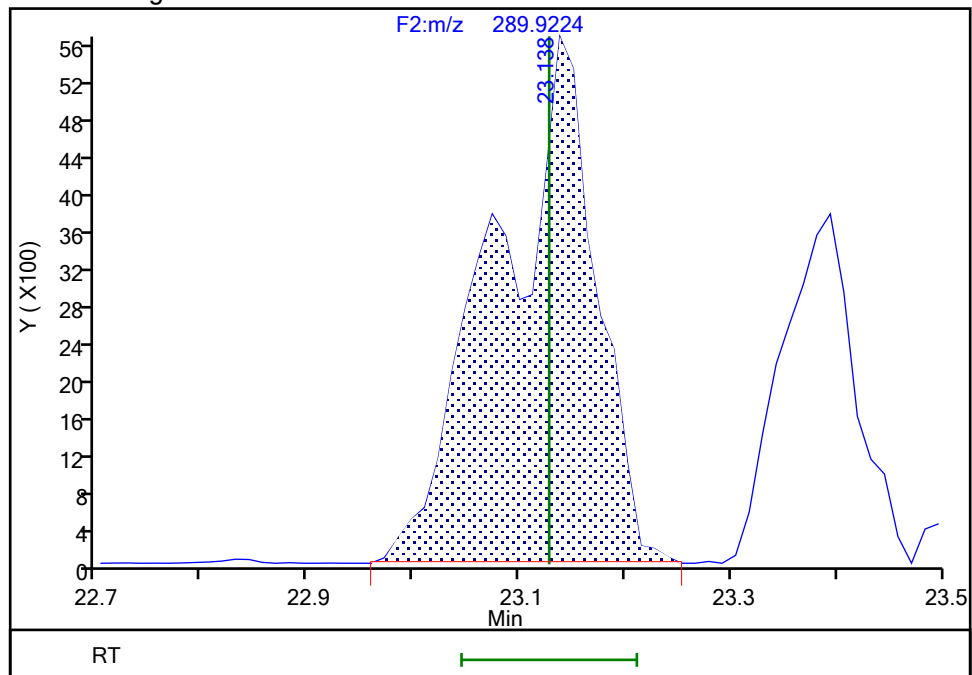
RT: 23.14
Area: 21852
Amount: 0.692797
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 36905
Amount: 0.981981
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

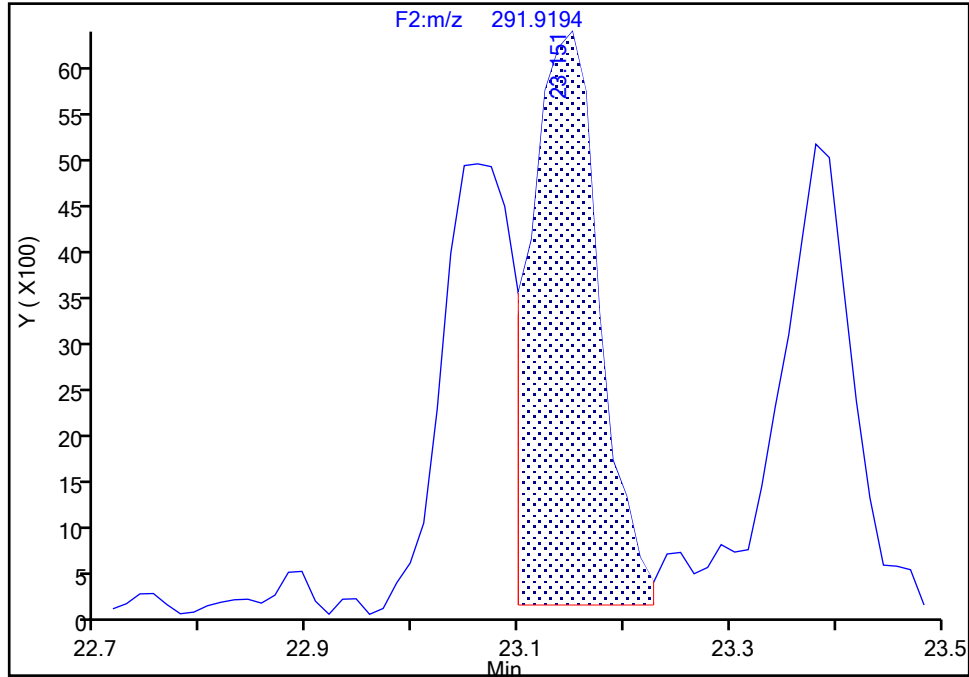
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

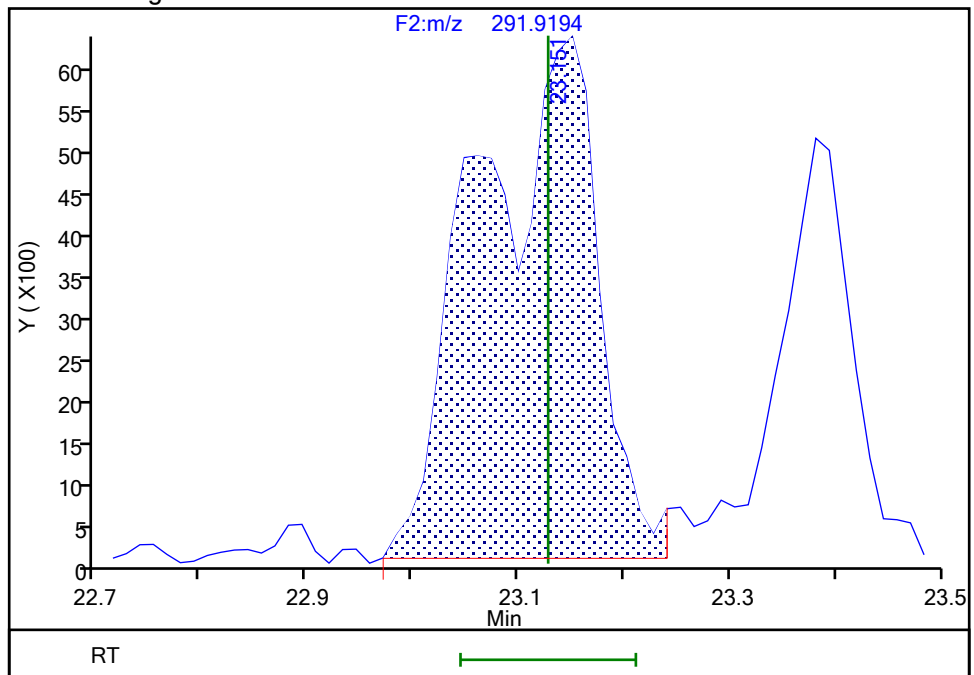
RT: 23.15
Area: 27565
Amount: 0.692797
Amount Units: pg/ul

Processing Integration Results



RT: 23.15
Area: 50053
Amount: 0.981981
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1755 of 3050

BASFWC-McIntosh-009756

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

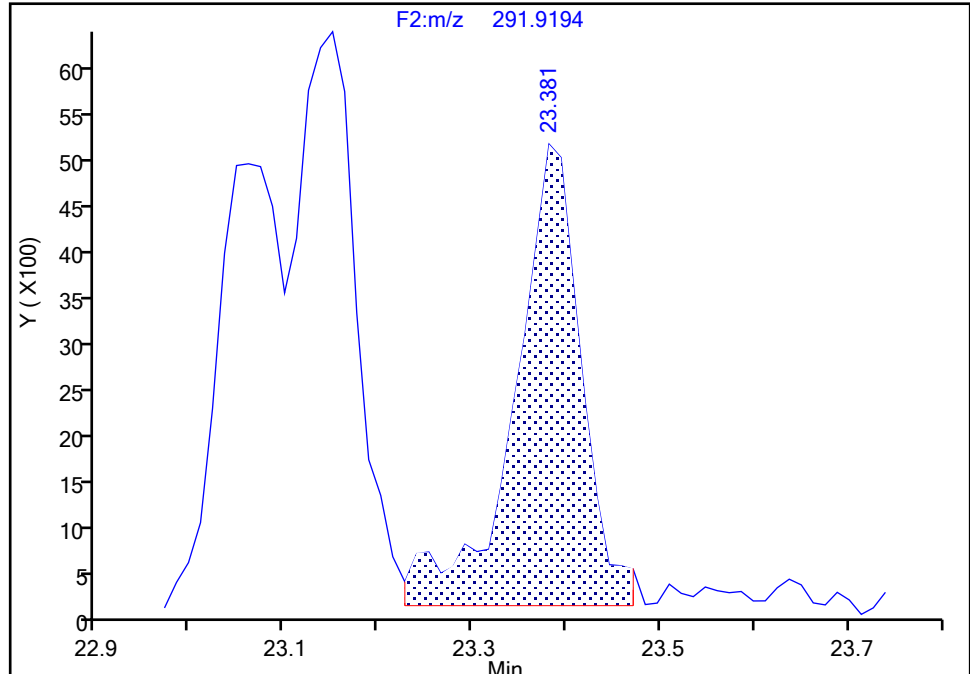
F2(21.81 :35.54)

PCB-46, CAS: 41464-47-5

Signal: 2

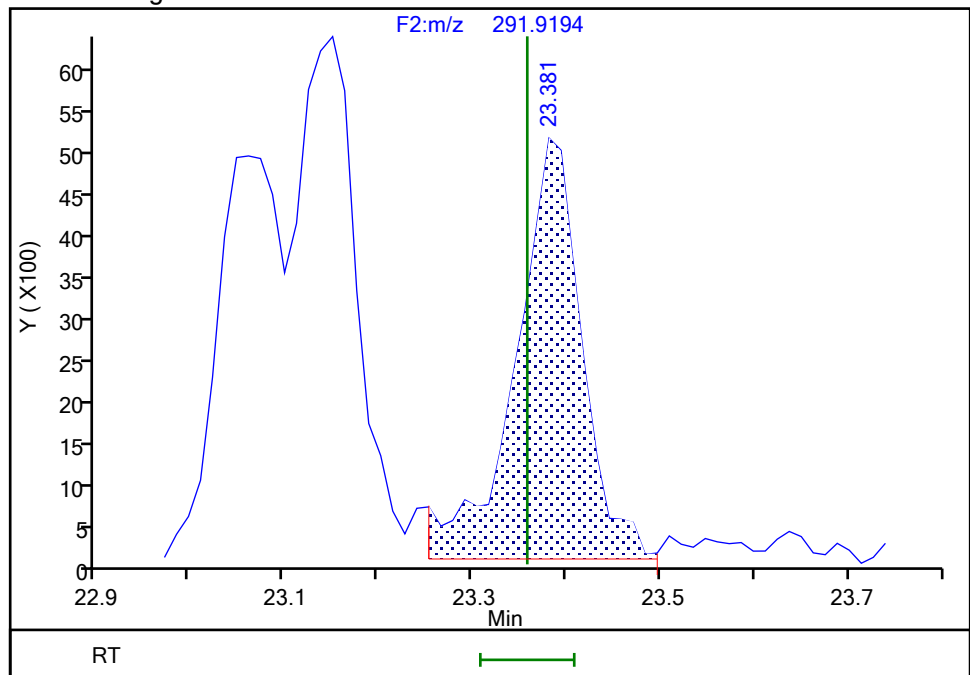
RT: 23.38
Area: 24759
Amount: 0.646077
Amount Units: pg/ul

Processing Integration Results



RT: 23.38
Area: 24801
Amount: 0.572922
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

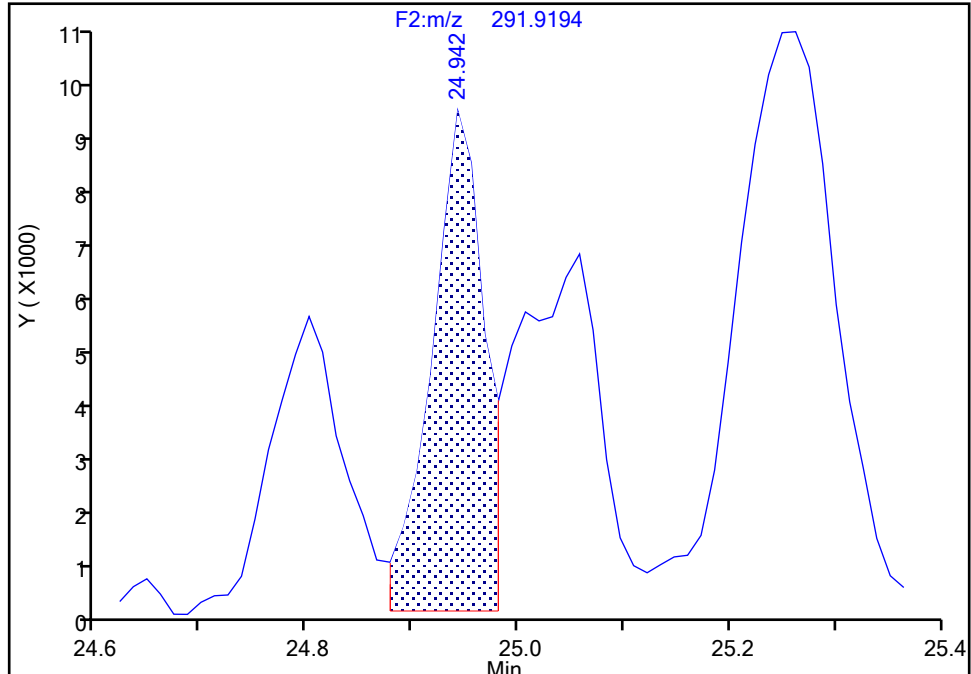
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

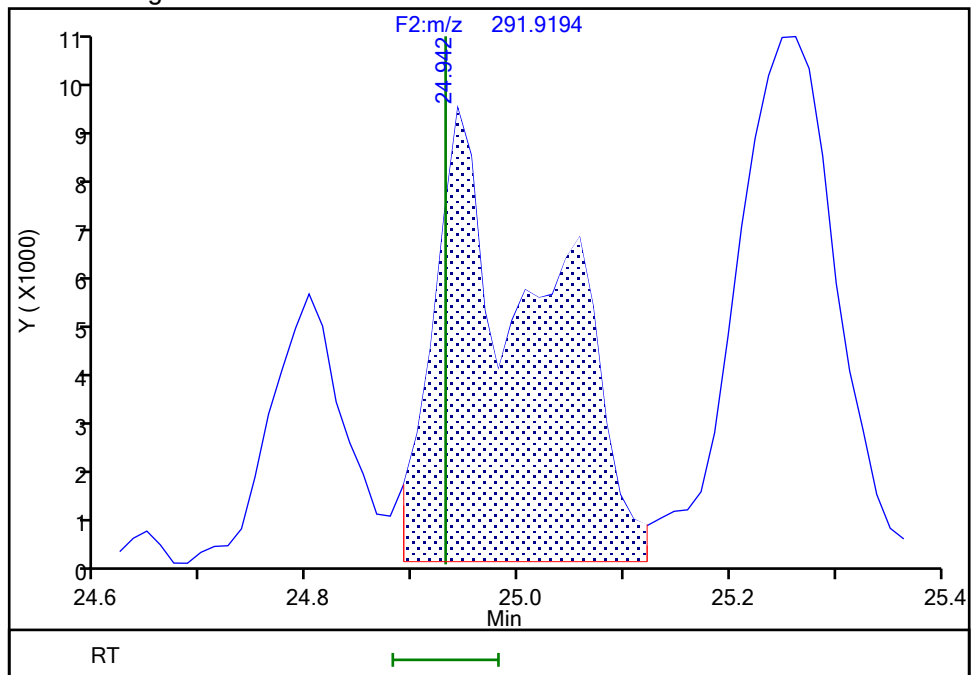
RT: 24.94
Area: 30396
Amount: 0.858929
Amount Units: pg/ul

Processing Integration Results



RT: 24.94
Area: 64927
Amount: 1.040983
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

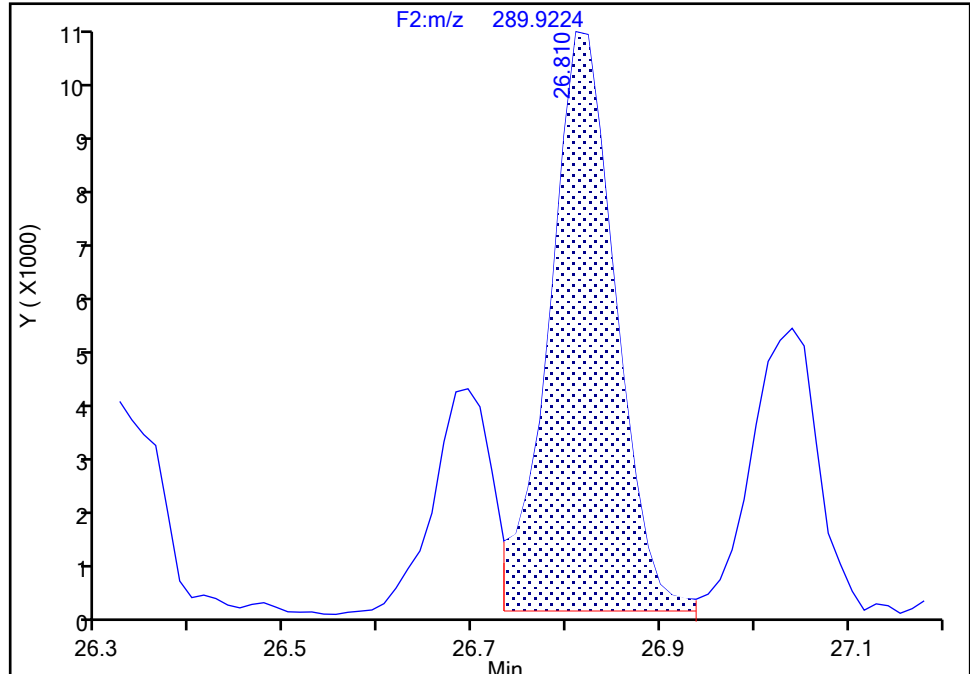
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

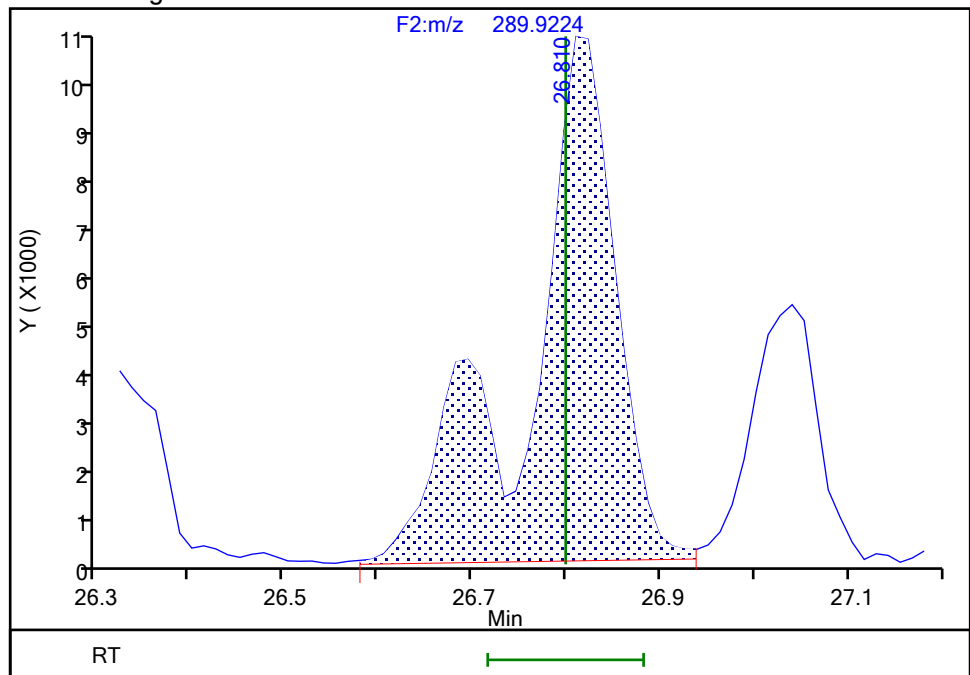
RT: 26.81
Area: 51372
Amount: 1.634828
Amount Units: pg/ul

Processing Integration Results



RT: 26.81
Area: 69186
Amount: 1.611545
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

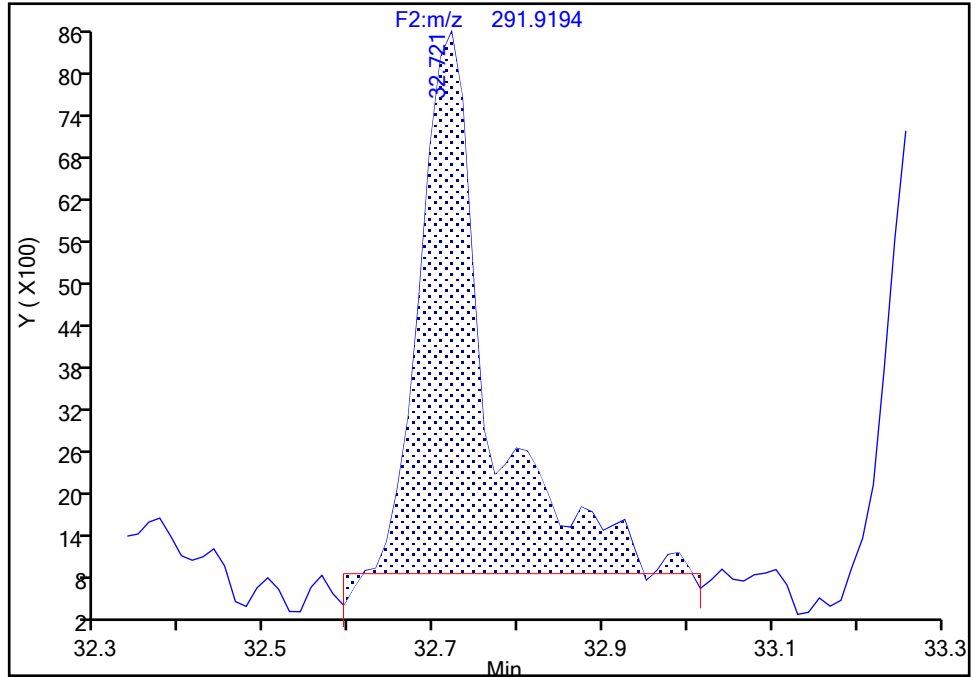
Detector F2(21.81 :35.54)

PCB-79, CAS: 41464-48-6

Signal: 2

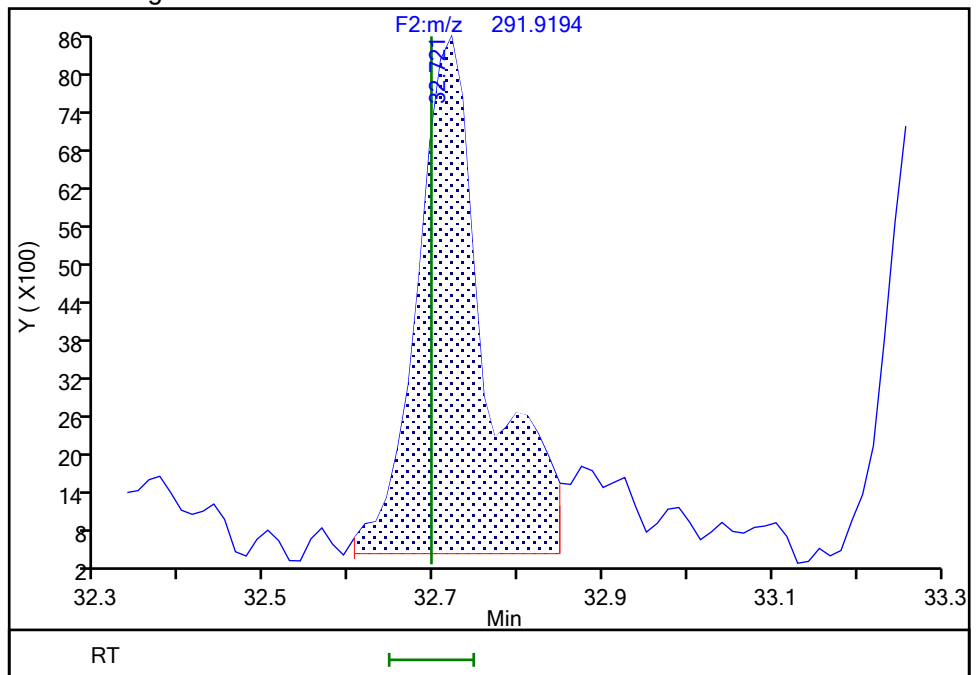
RT: 32.72
Area: 43504
Amount: 0.482447
Amount Units: pg/ul

Processing Integration Results



RT: 32.72
Area: 46208
Amount: 0.502698
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:32:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

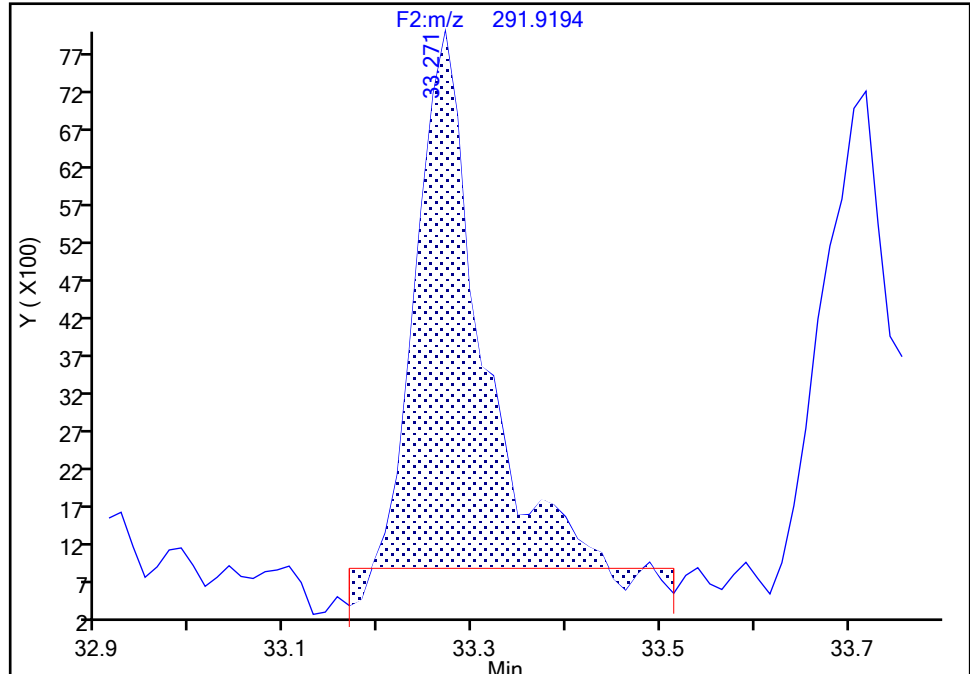
Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 2

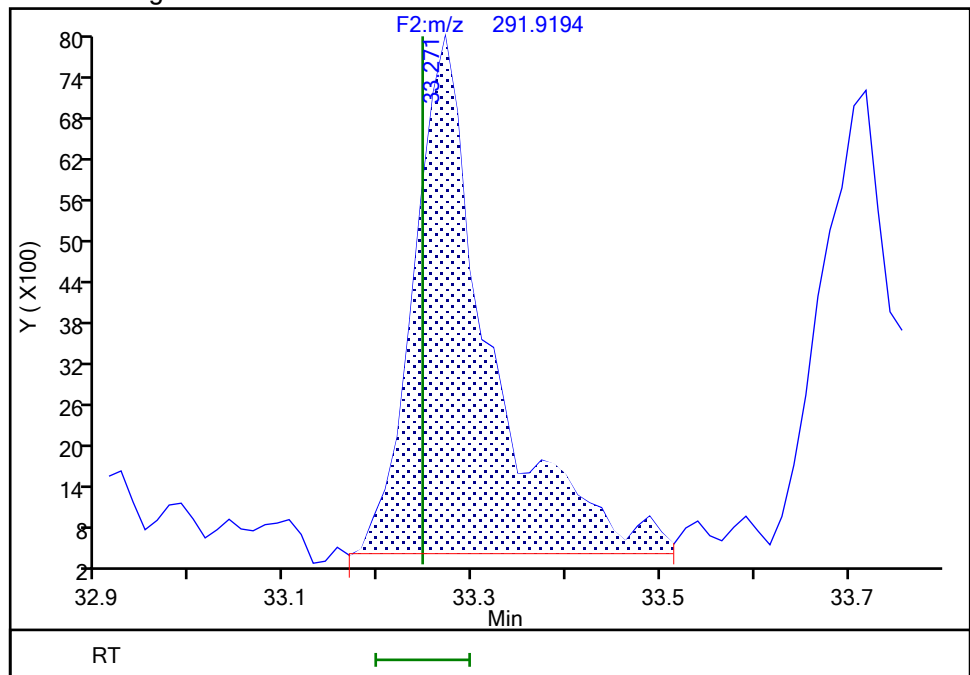
RT: 33.27
Area: 33199
Amount: 0.483750
Amount Units: pg/ul

Processing Integration Results



RT: 33.27
Area: 42776
Amount: 0.568900
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:57 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Knoxville

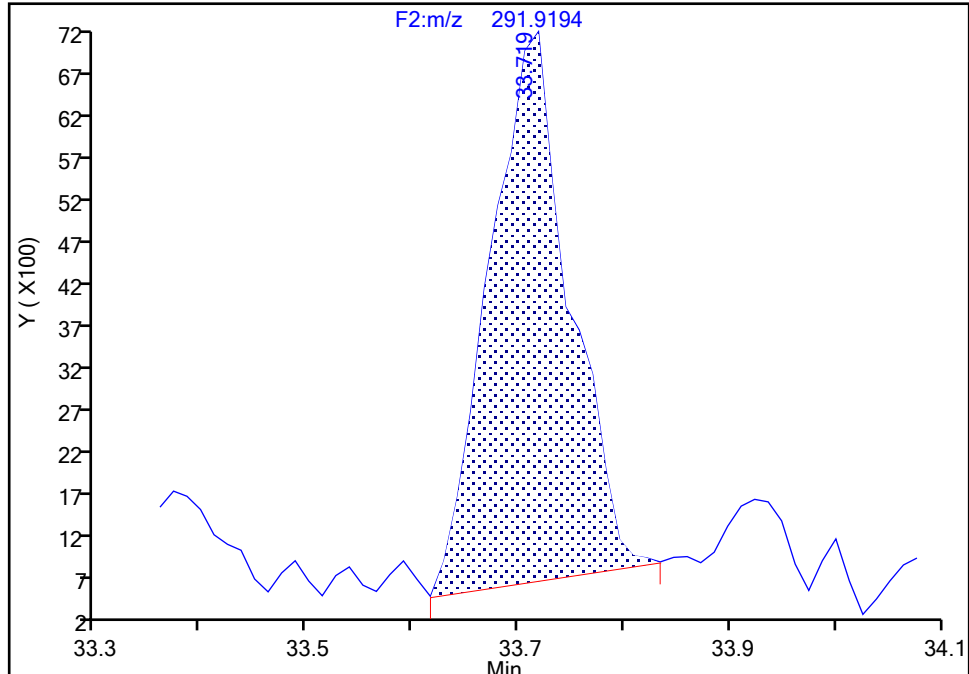
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 2

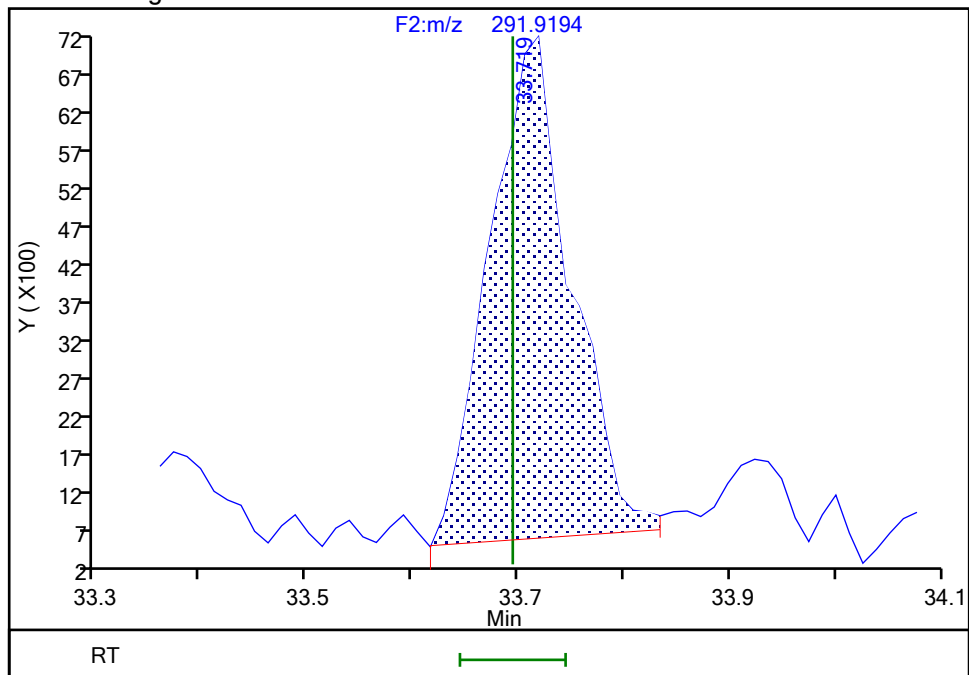
RT: 33.72
Area: 34022
Amount: 0.537140
Amount Units: pg/ul

Processing Integration Results



RT: 33.72
Area: 35118
Amount: 0.518318
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

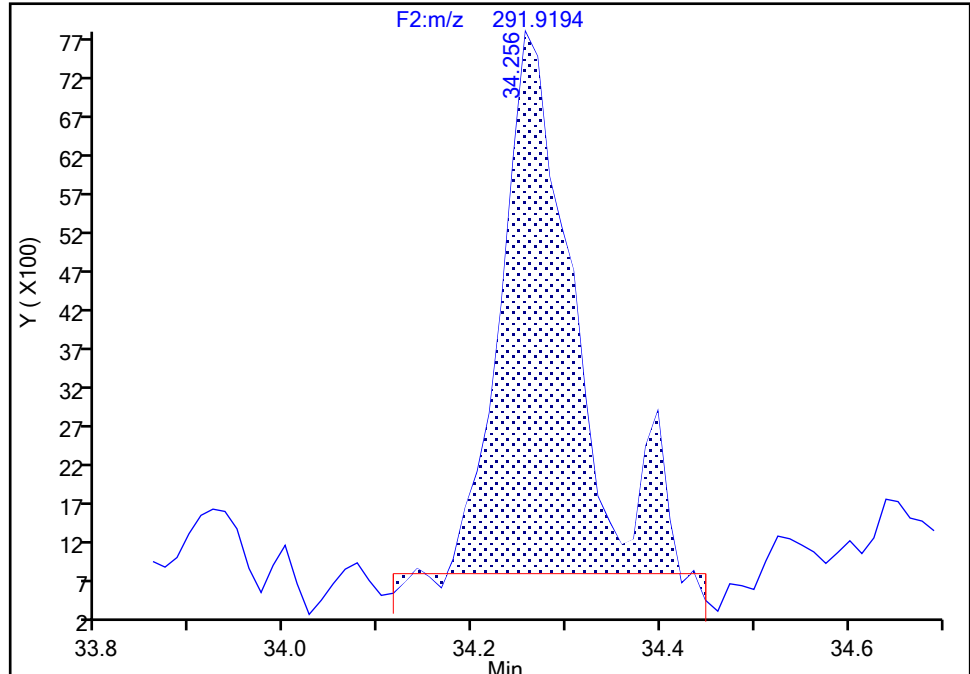
Detector F2(21.81 :35.54)

PCB-77, CAS: 32598-13-3

Signal: 2

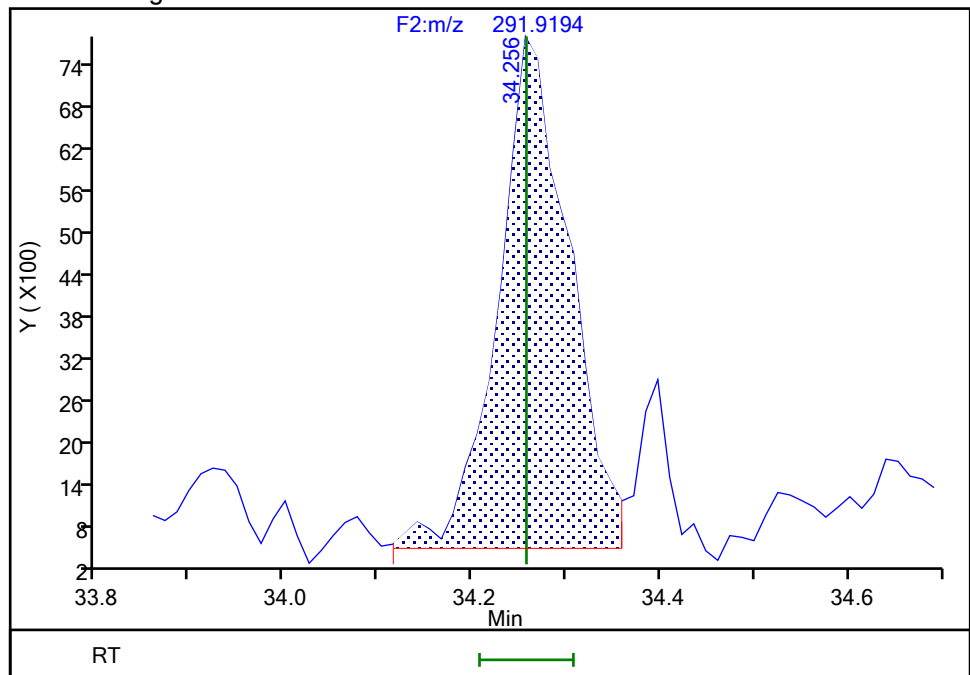
RT: 34.26
Area: 37472
Amount: 0.539276
Amount Units: pg/ul

Processing Integration Results



RT: 34.26
Area: 38606
Amount: 0.539333
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

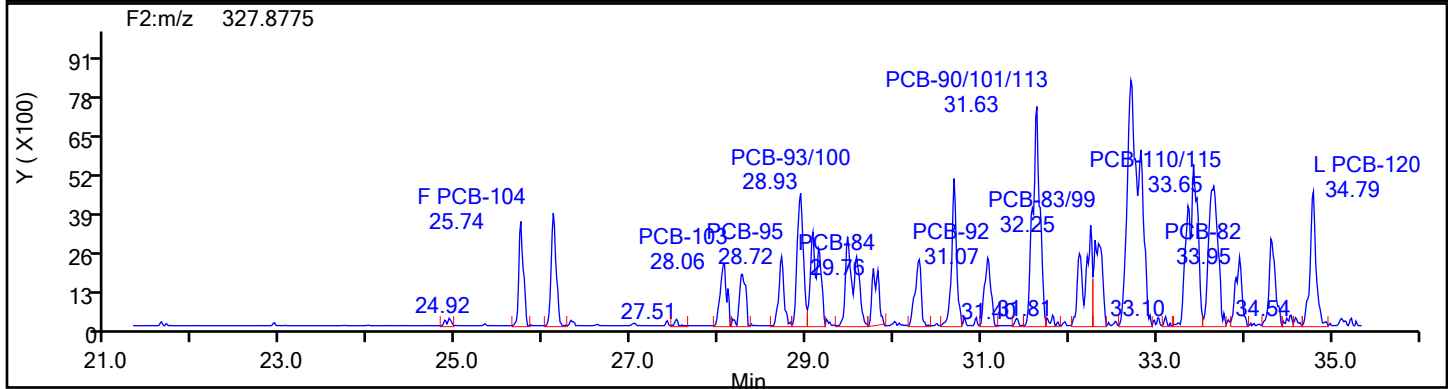
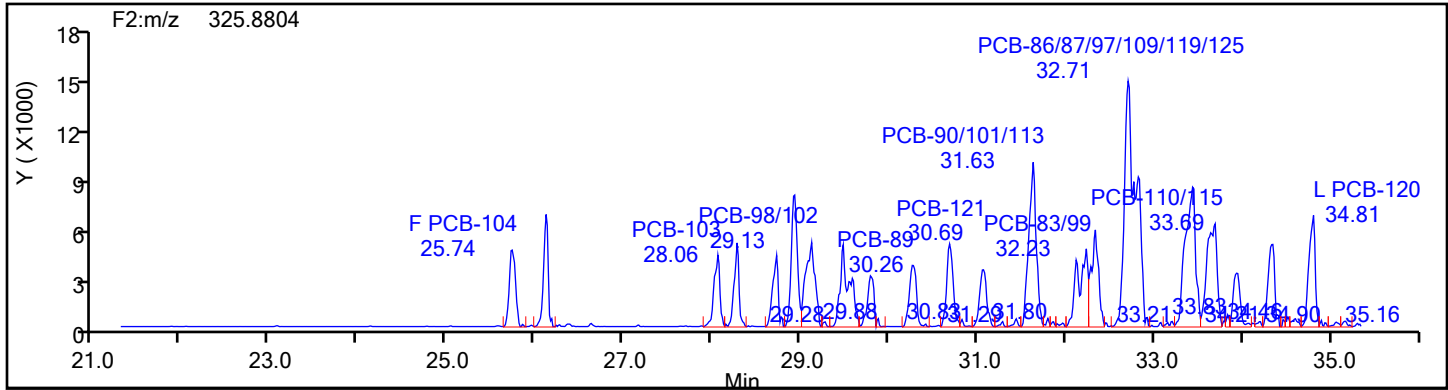
Worklist#: 87130

Sample Line#: 1

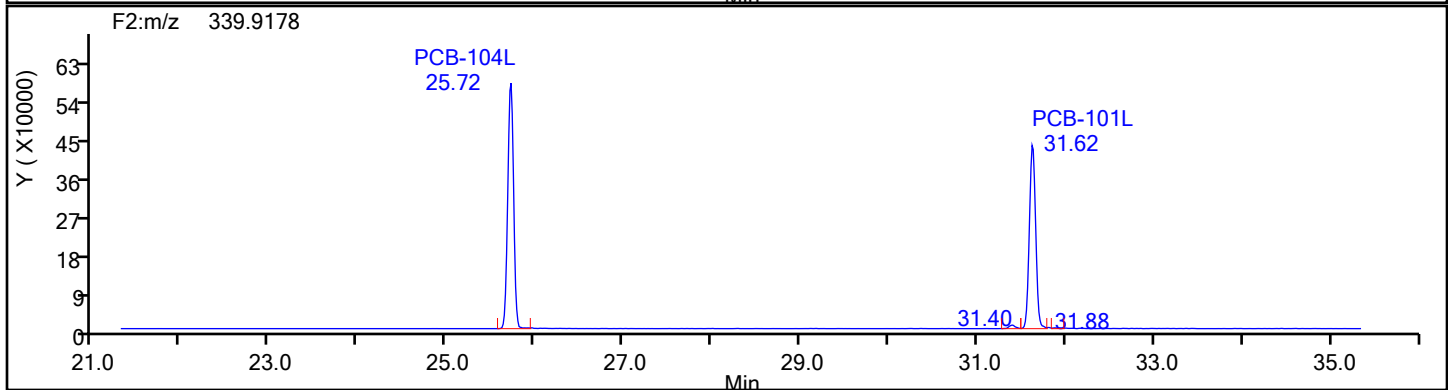
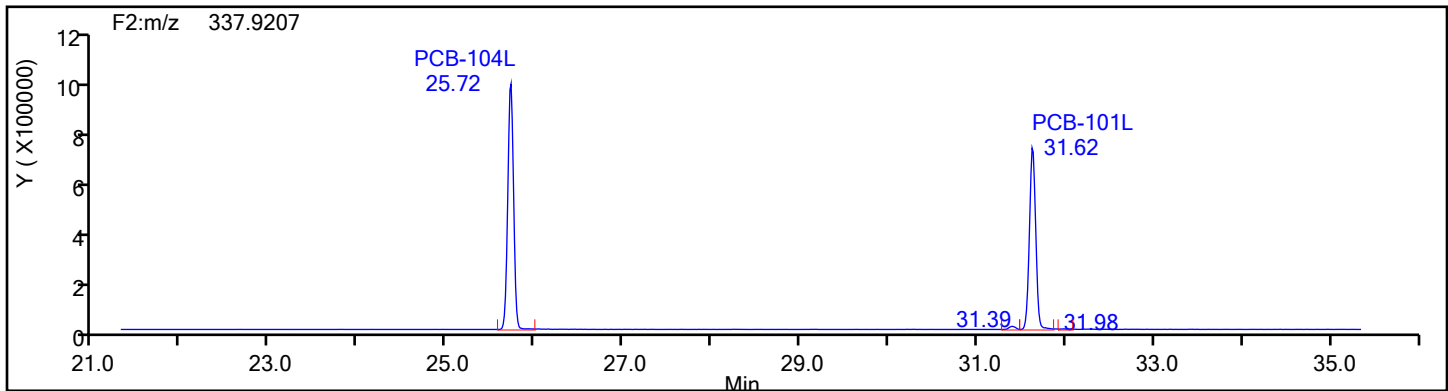
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

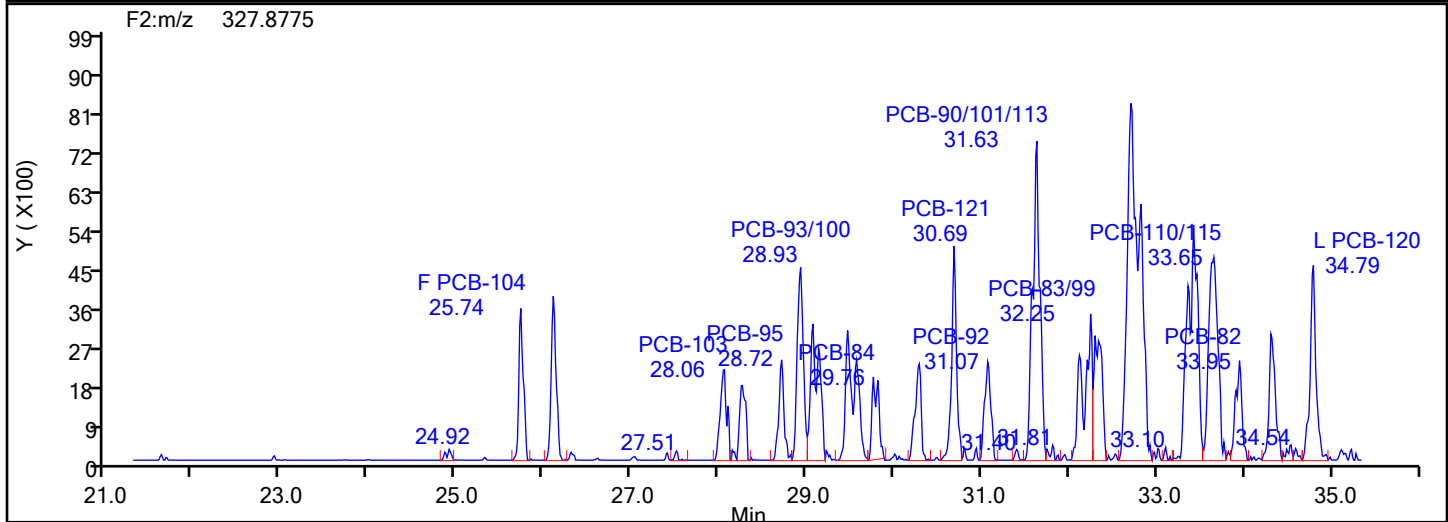
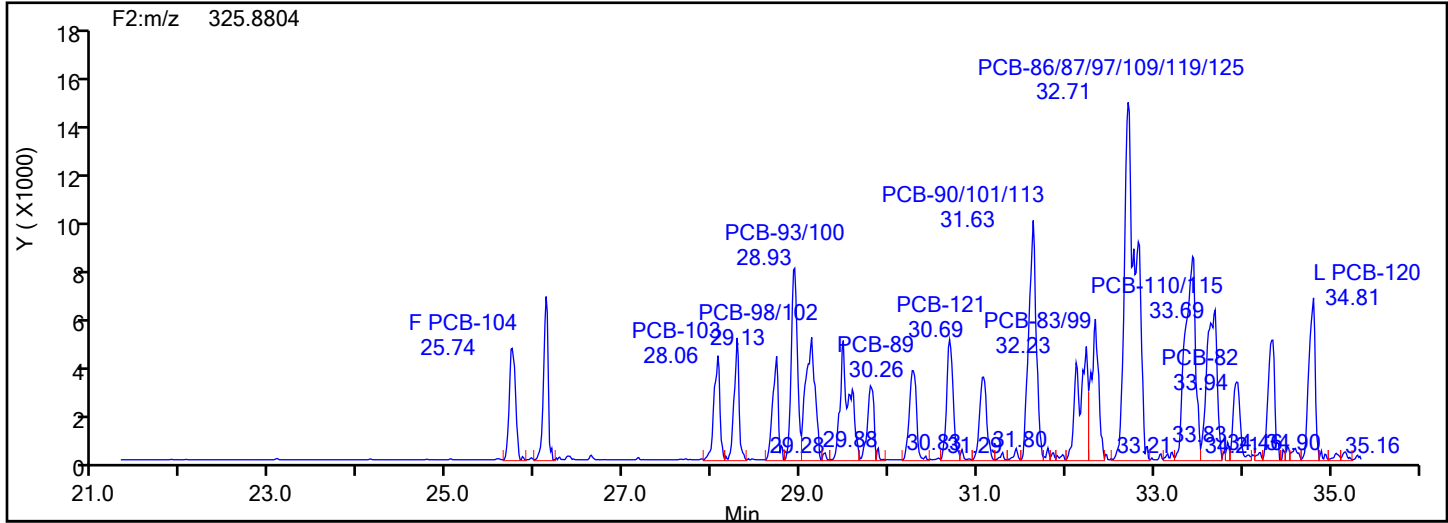
Worklist#: 87130

Sample Line#: 1

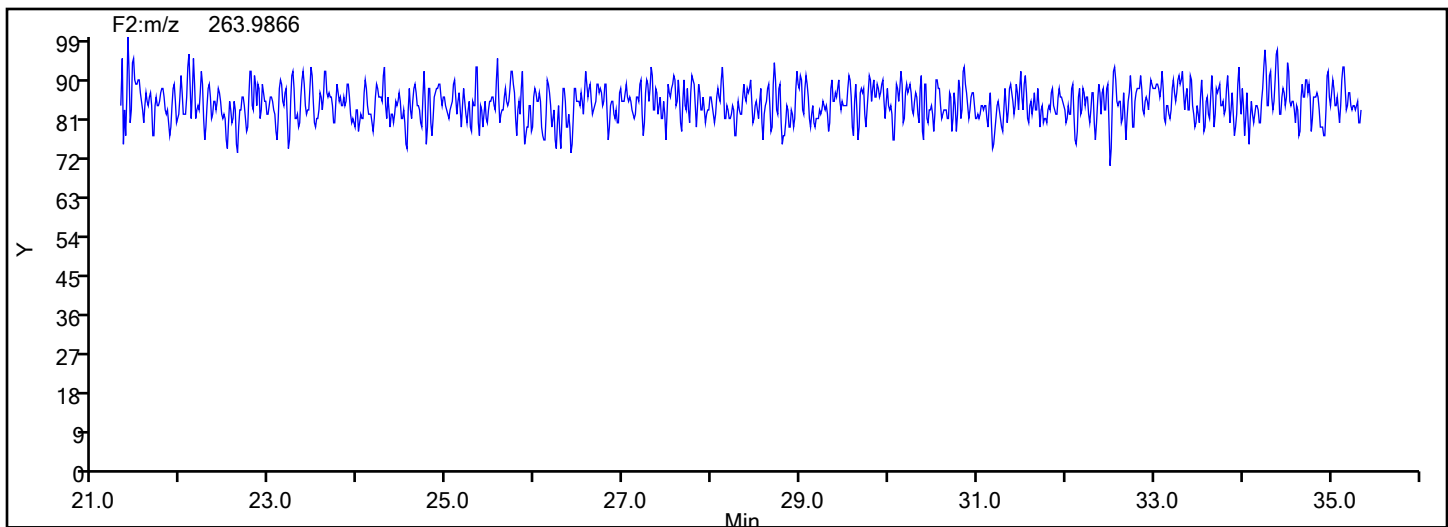
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

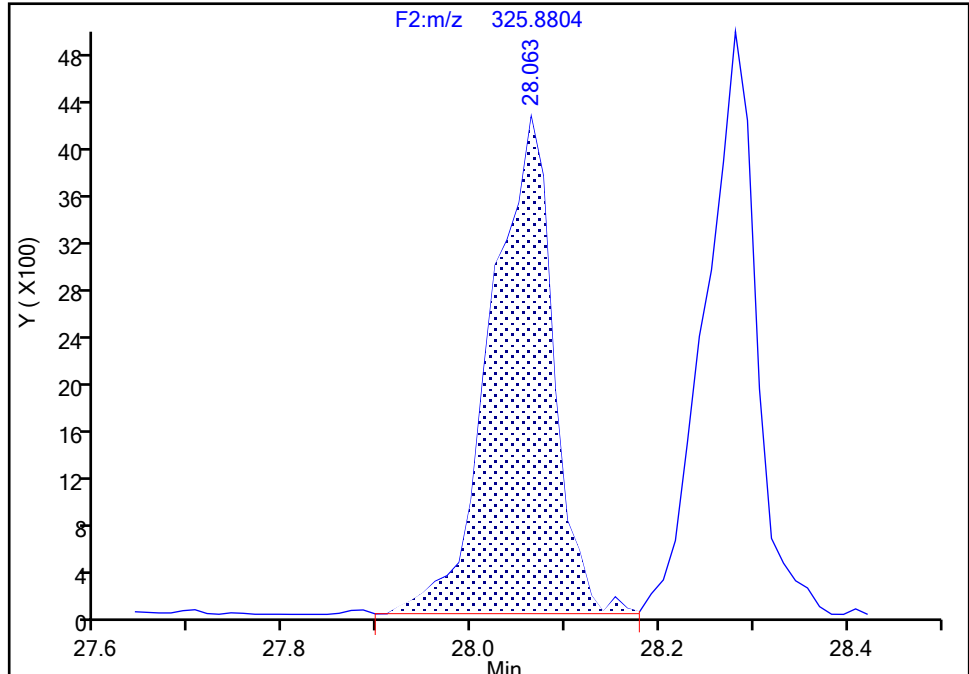
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-103, CAS: 60145-21-3

Signal: 1

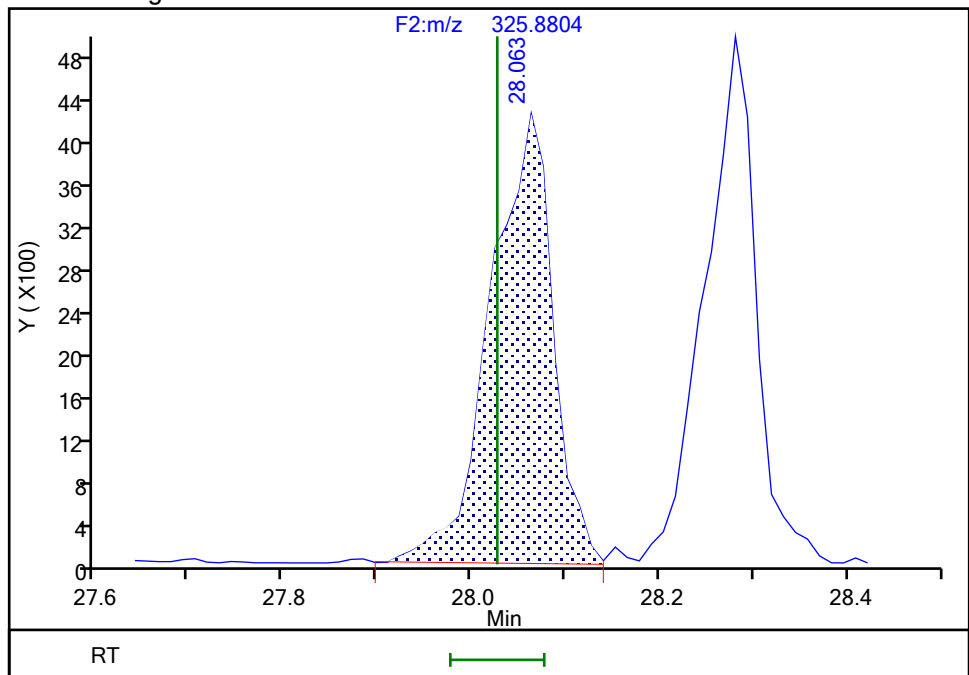
RT: 28.06
Area: 19438
Amount: 0.509404
Amount Units: pg/ul

Processing Integration Results



RT: 28.06
Area: 19294
Amount: 0.499667
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

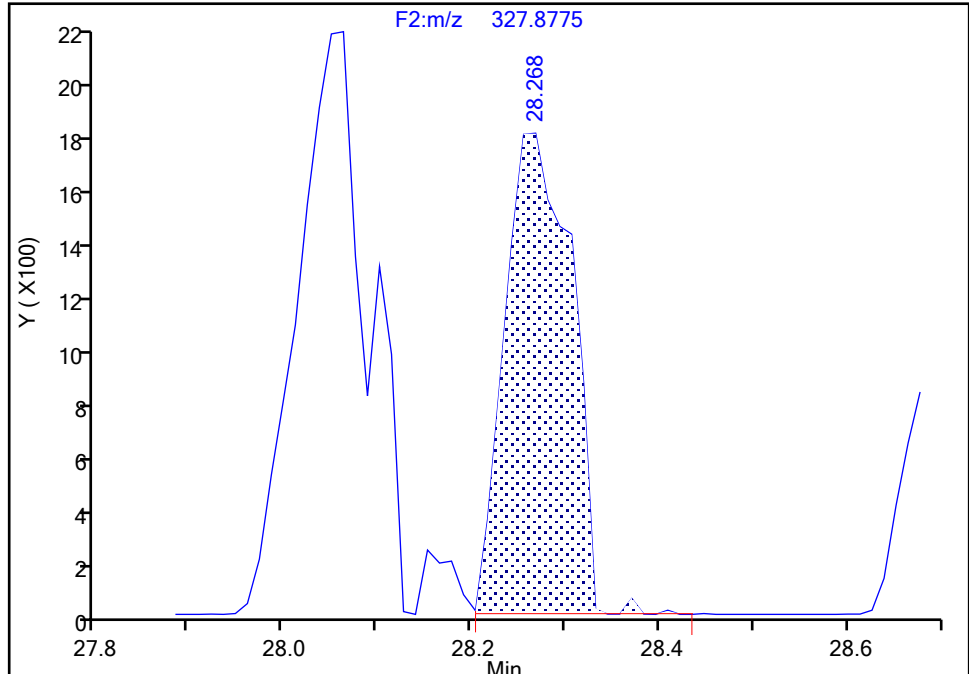
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 2

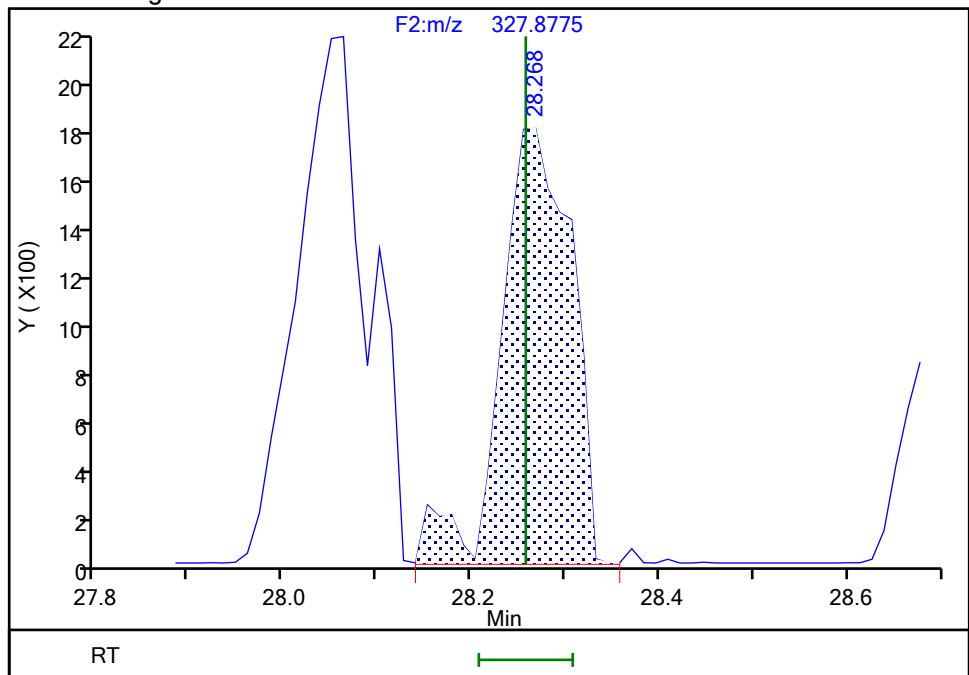
RT: 28.27
Area: 8569
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.27
Area: 9052
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

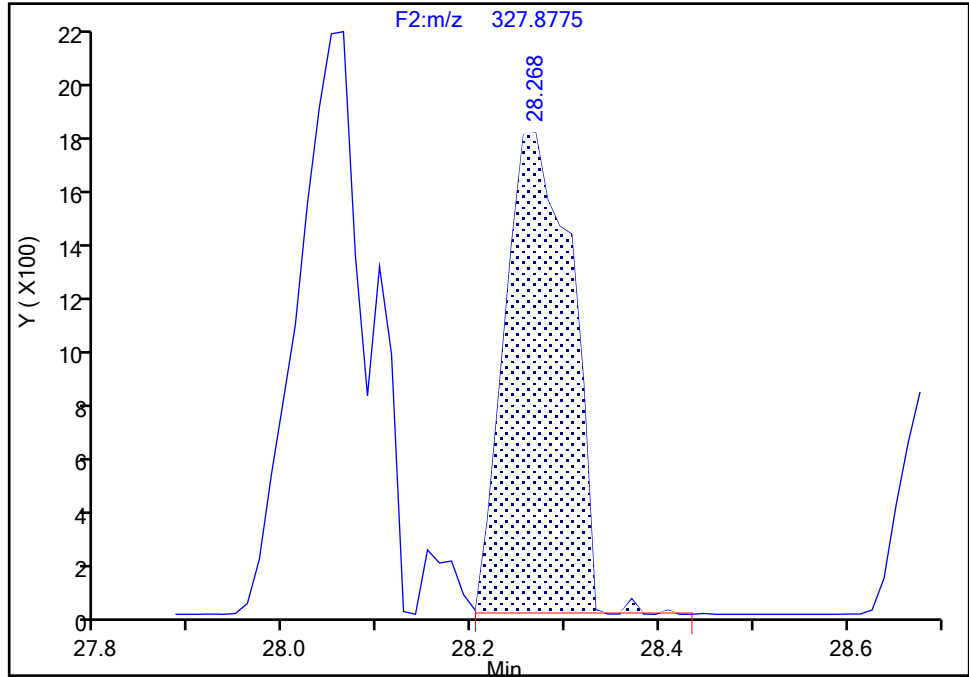
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 2

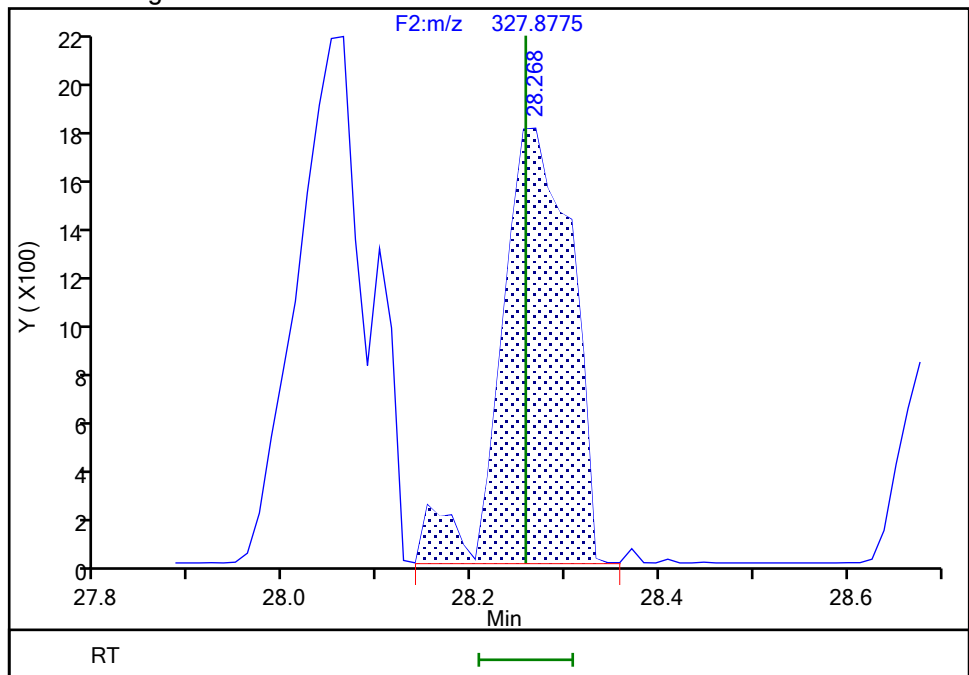
RT: 28.27
Area: 8569
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.27
Area: 9052
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 1767 of 3050

BASFWC-McIntosh-009768

9/6/2024

4:11:20 PM

Eurofins Knoxville

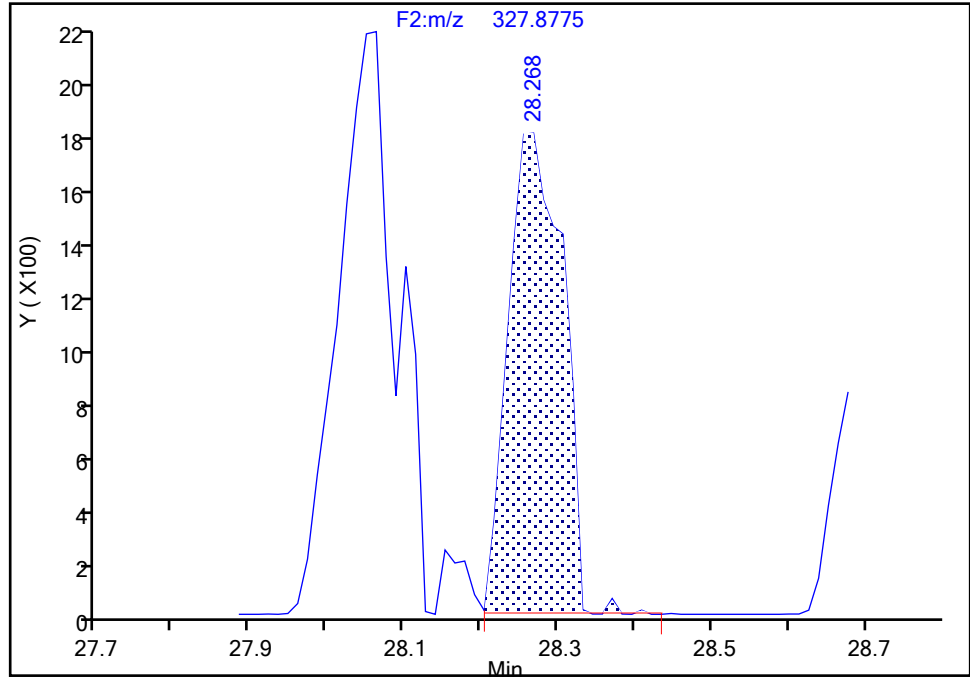
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 3

RT: 28.28
Area: 27097
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 28.28
Area: 27753
Amount: 0.523542
Amount Units: pg/ul
Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Knoxville

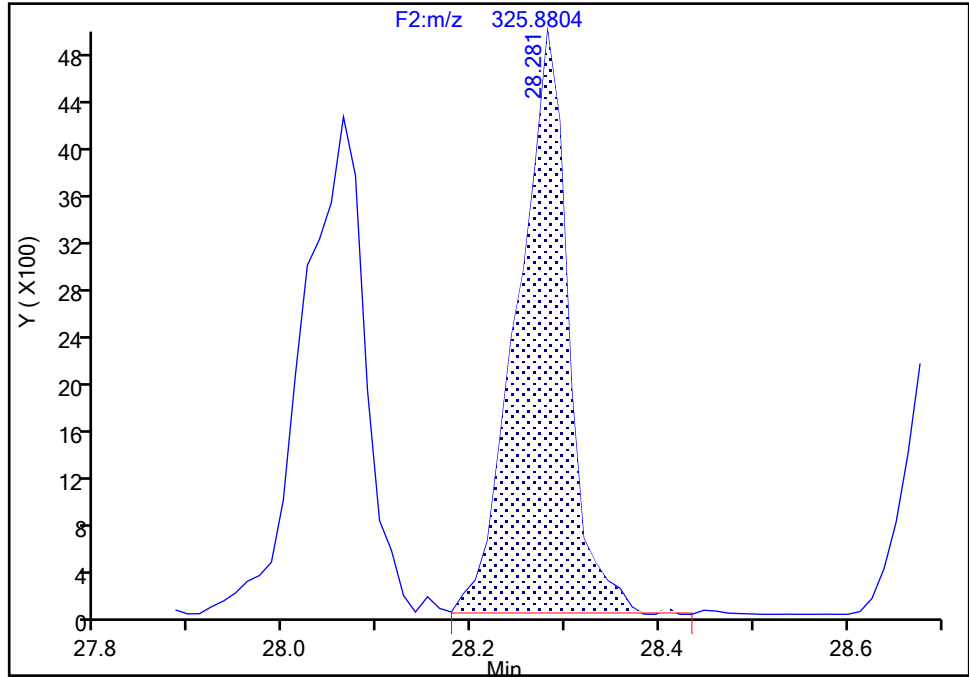
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-94, CAS: 73575-55-0

Signal: 1

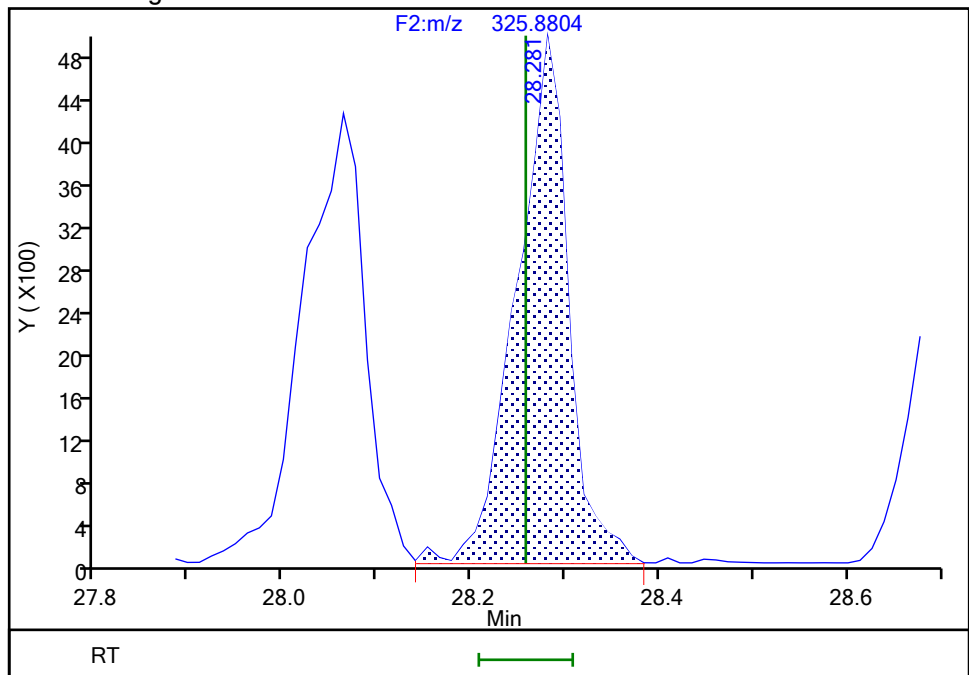
RT: 28.28
Area: 18528
Amount: 0.521693
Amount Units: pg/ul

Processing Integration Results



RT: 28.28
Area: 18701
Amount: 0.523542
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:52 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 1769 of 3050

BASFWHC-McIntosh-009770

9/6/2024

4:11:20 PM

Eurofins Knoxville

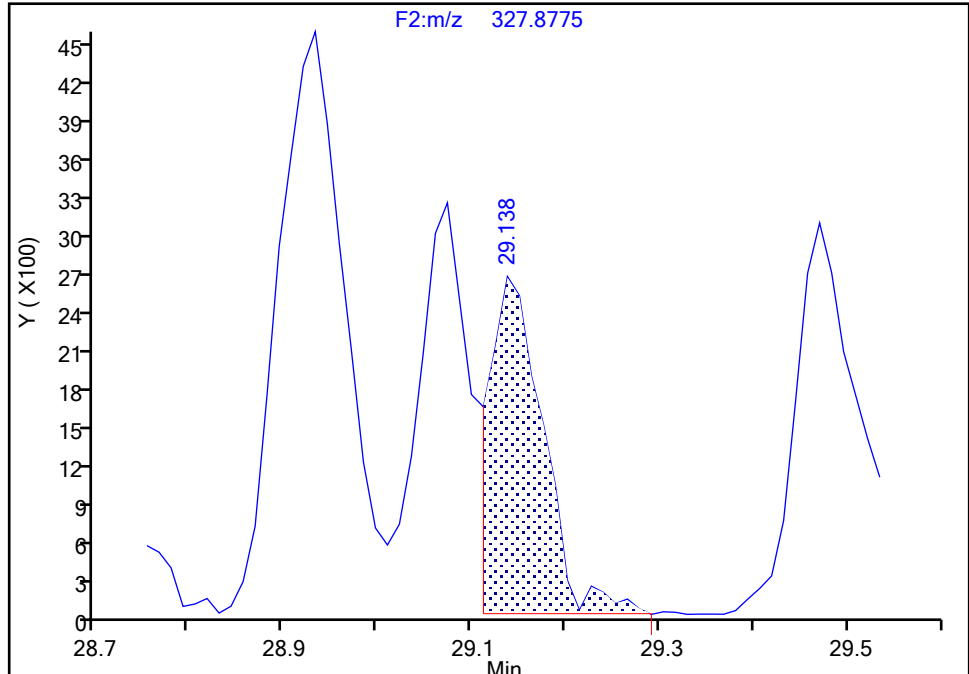
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

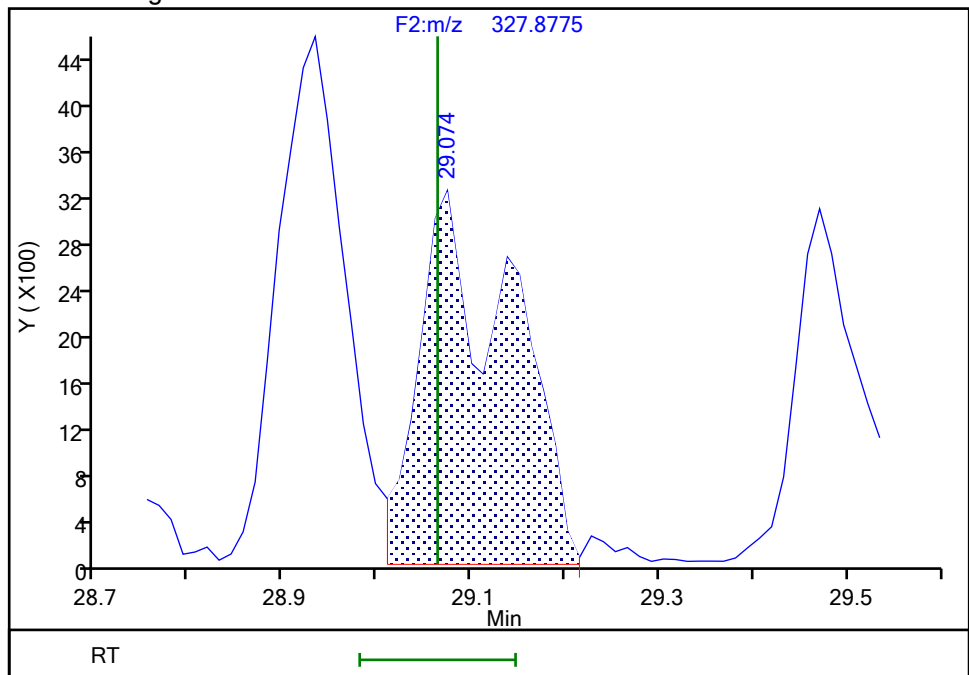
RT: 29.14
Area: 10061
Amount: 0.761342
Amount Units: pg/ul

Processing Integration Results



RT: 29.07
Area: 21429
Amount: 0.999328
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

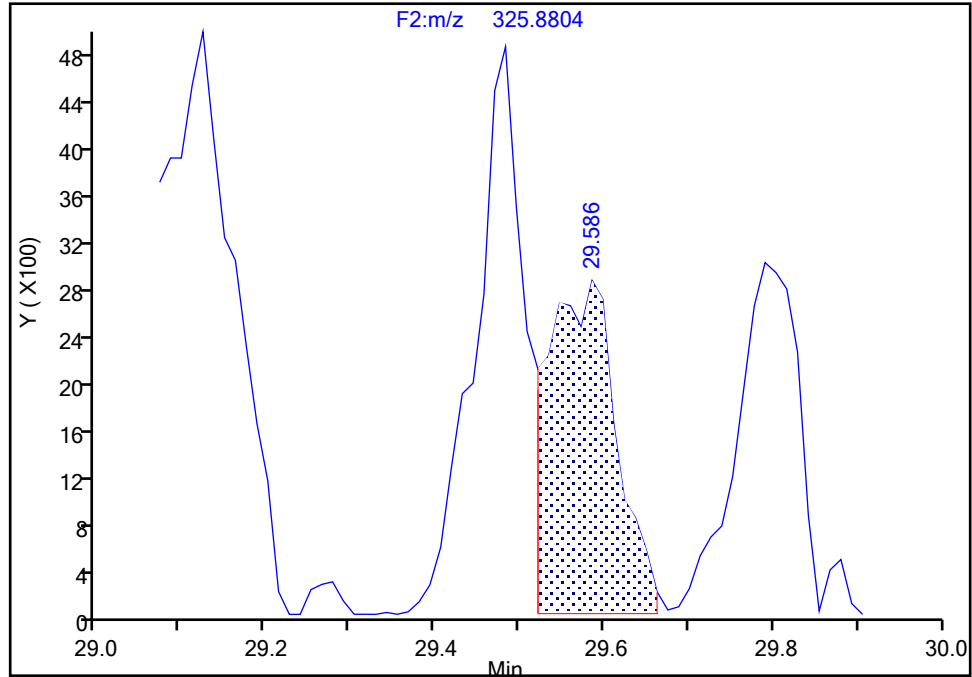
Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 1

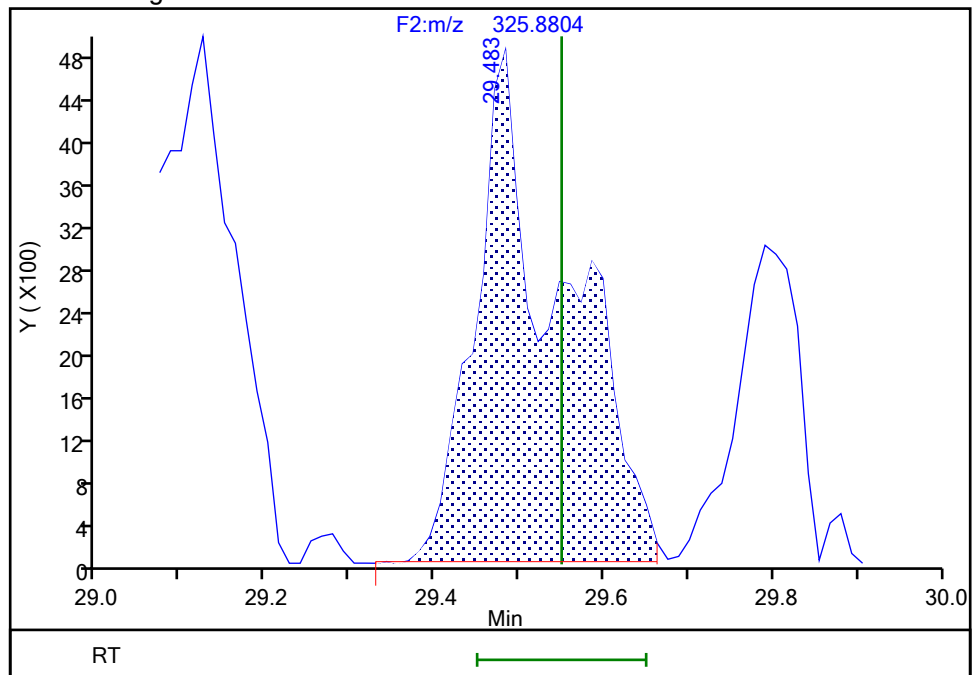
RT: 29.59
Area: 15618
Amount: 0.515955
Amount Units: pg/ul

Processing Integration Results



RT: 29.48
Area: 34391
Amount: 1.044024
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

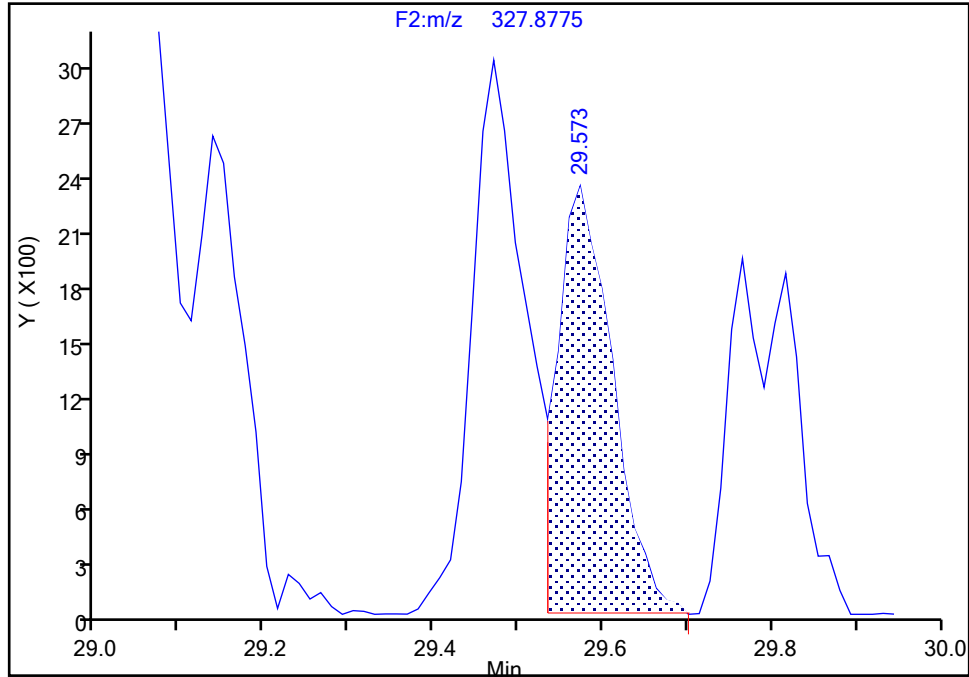
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 2

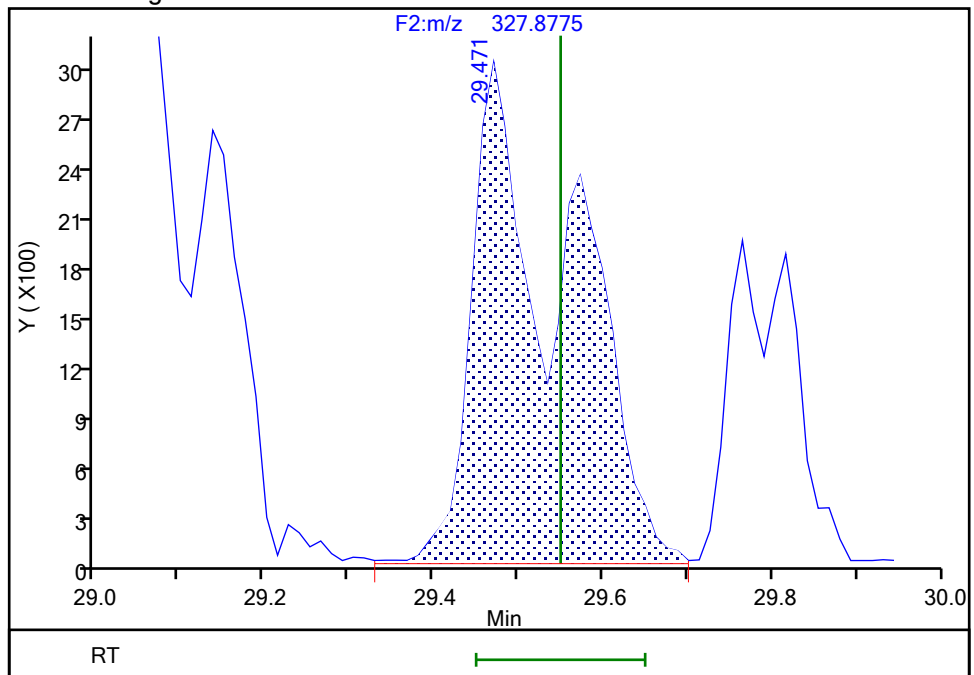
RT: 29.57
Area: 10357
Amount: 0.515955
Amount Units: pg/ul

Processing Integration Results



RT: 29.47
Area: 23653
Amount: 1.044024
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1772 of 3050

BASFHWC-McIntosh-009773

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

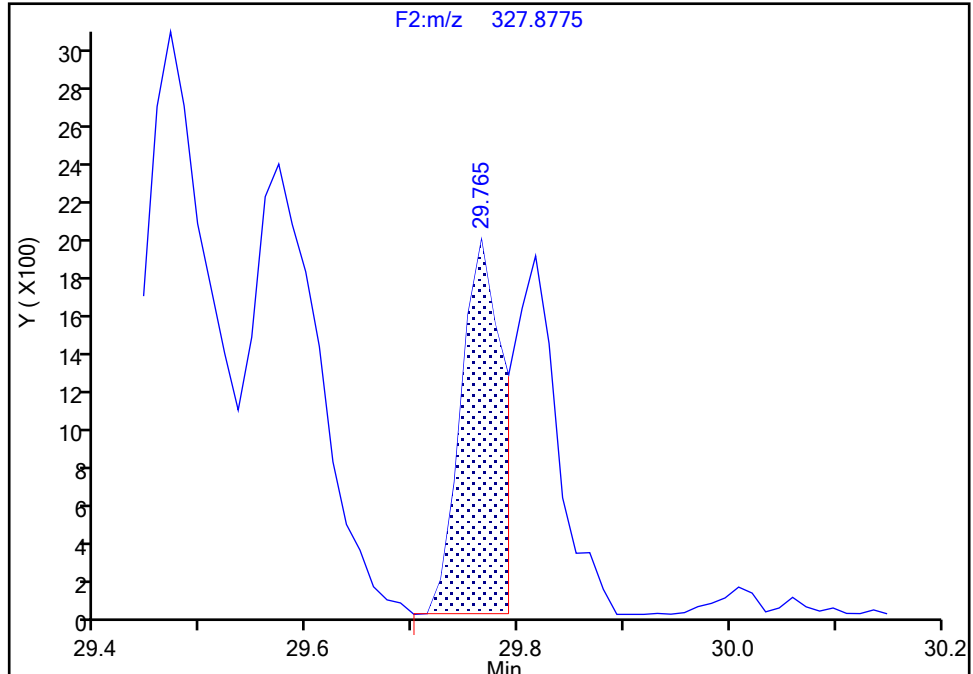
F2(21.81 :35.54)

PCB-84, CAS: 52663-60-2

Signal: 2

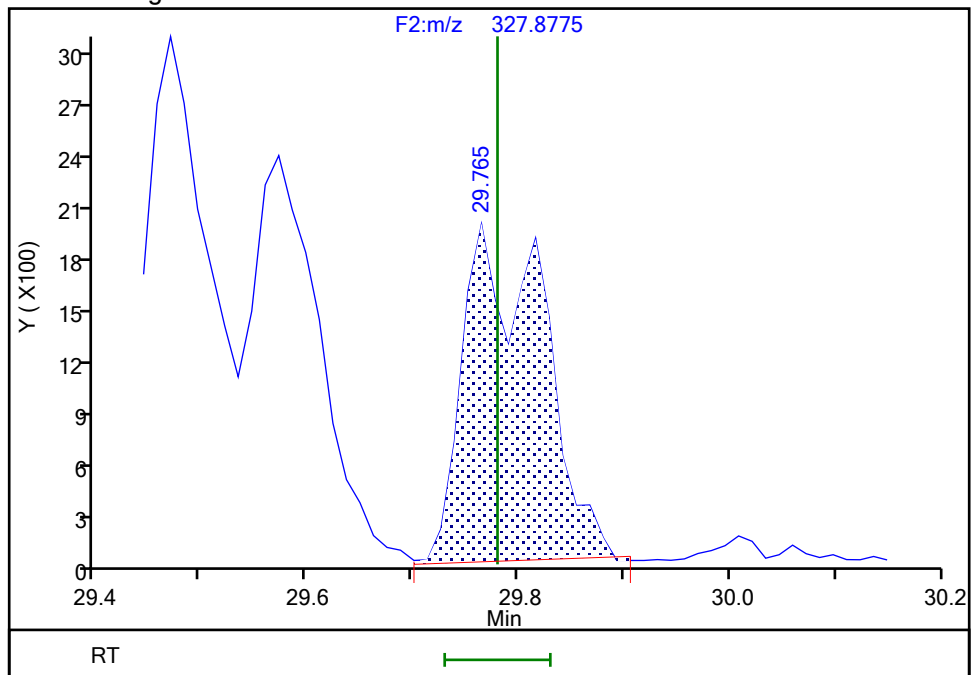
RT: 29.76
Area: 4970
Amount: 0.427934
Amount Units: pg/ul

Processing Integration Results



RT: 29.76
Area: 10134
Amount: 0.496810
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

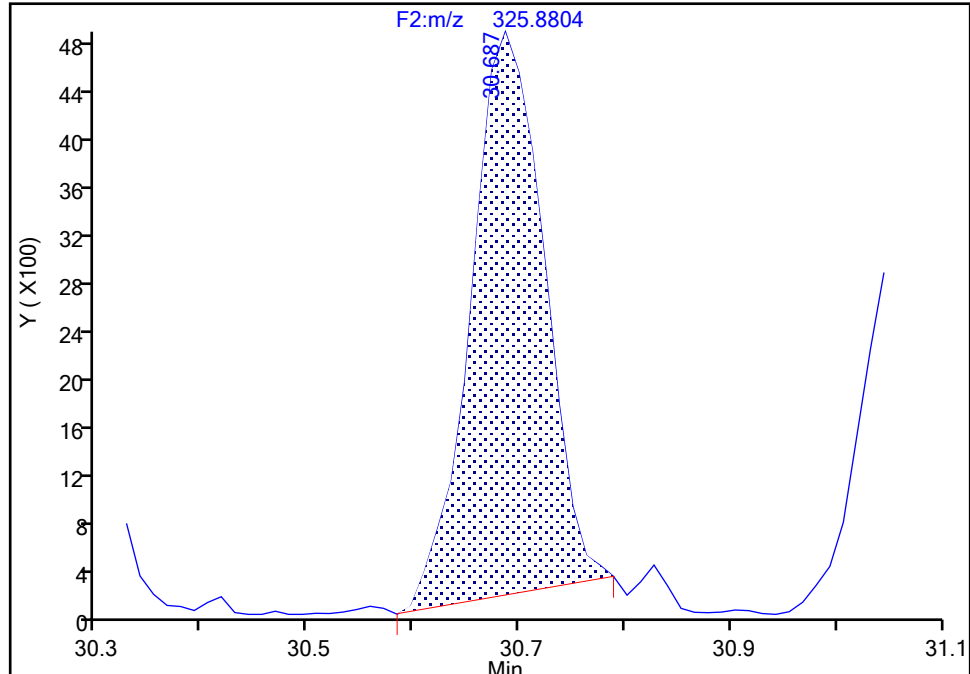
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 1

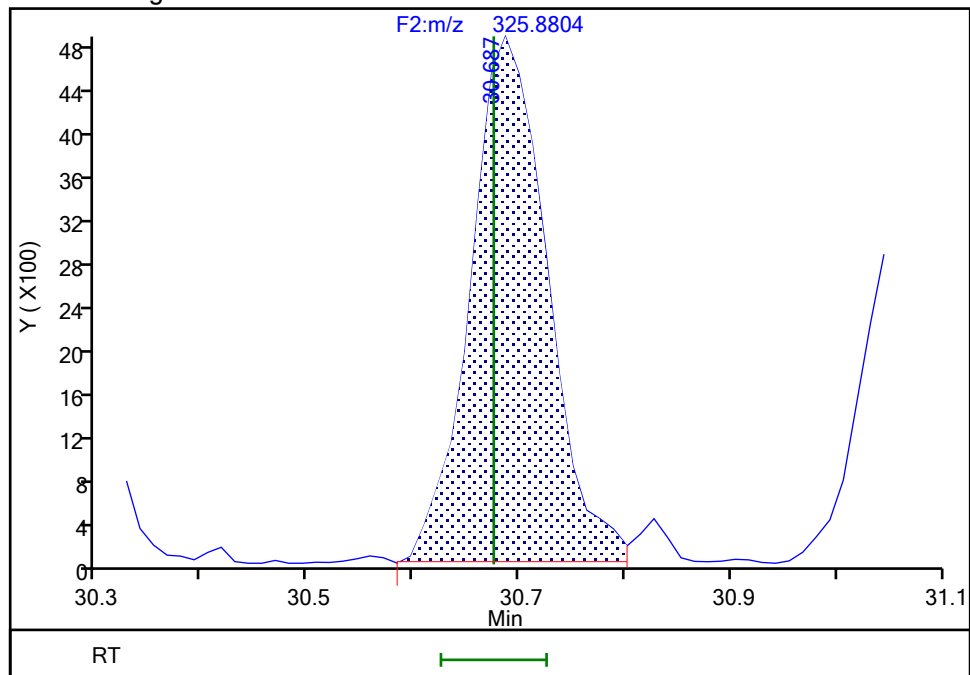
RT: 30.69
Area: 22370
Amount: 0.468205
Amount Units: pg/ul

Processing Integration Results



RT: 30.69
Area: 24350
Amount: 0.482931
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

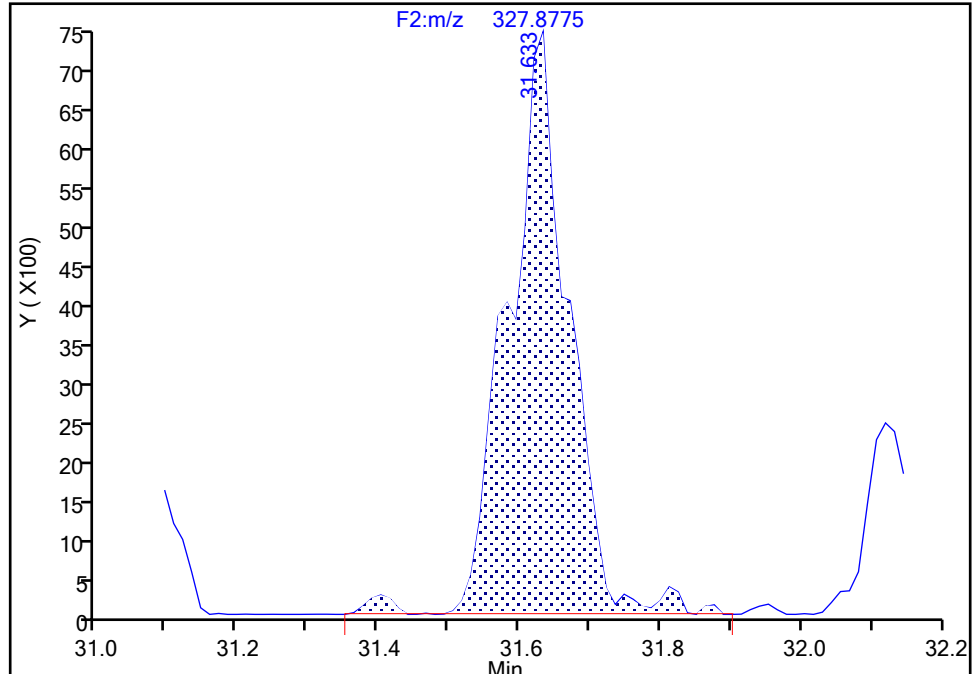
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-90/101/113, CAS: STL01813

Signal: 2

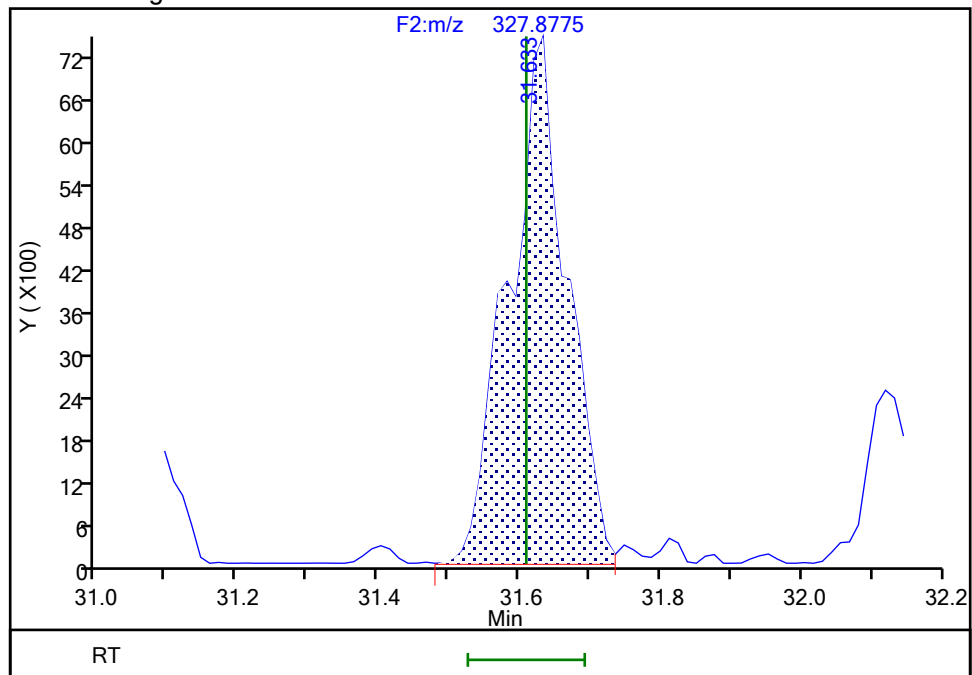
RT: 31.63
Area: 44490
Amount: 1.511719
Amount Units: pg/ul

Processing Integration Results



RT: 31.63
Area: 42490
Amount: 1.490119
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:29:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

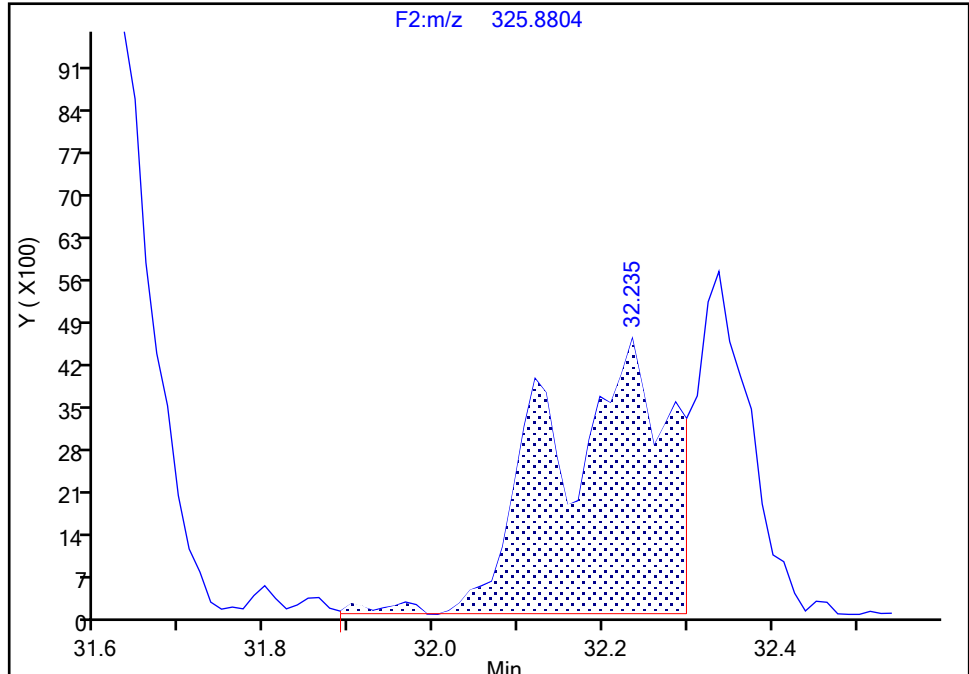
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-83/99, CAS: STL01809

Signal: 1

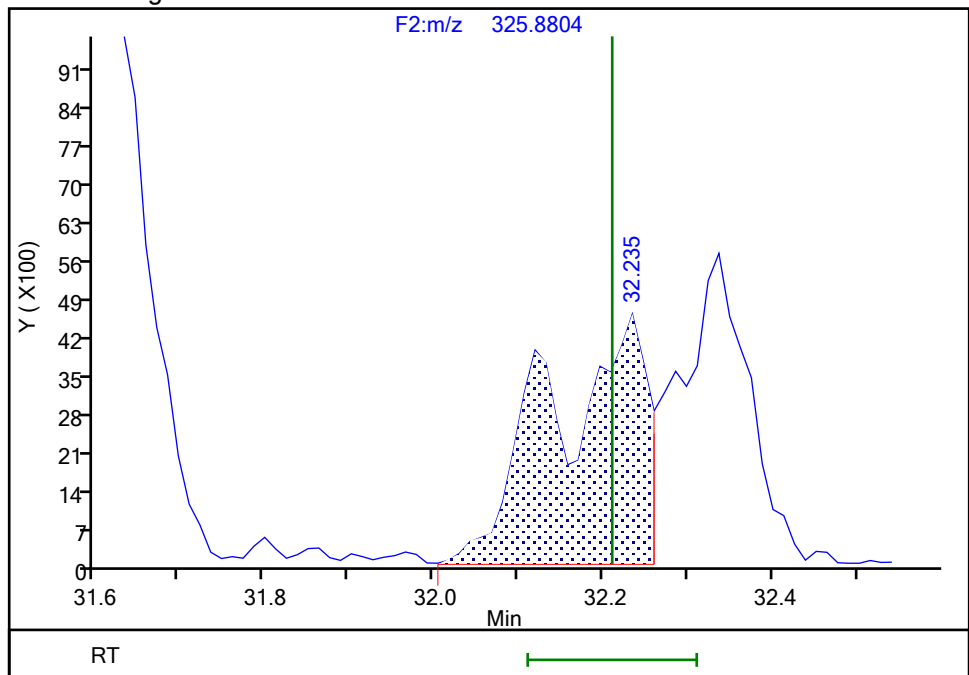
RT: 32.23
Area: 42856
Amount: 1.064486
Amount Units: pg/ul

Processing Integration Results



RT: 32.23
Area: 34703
Amount: 0.994053
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:29:46 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

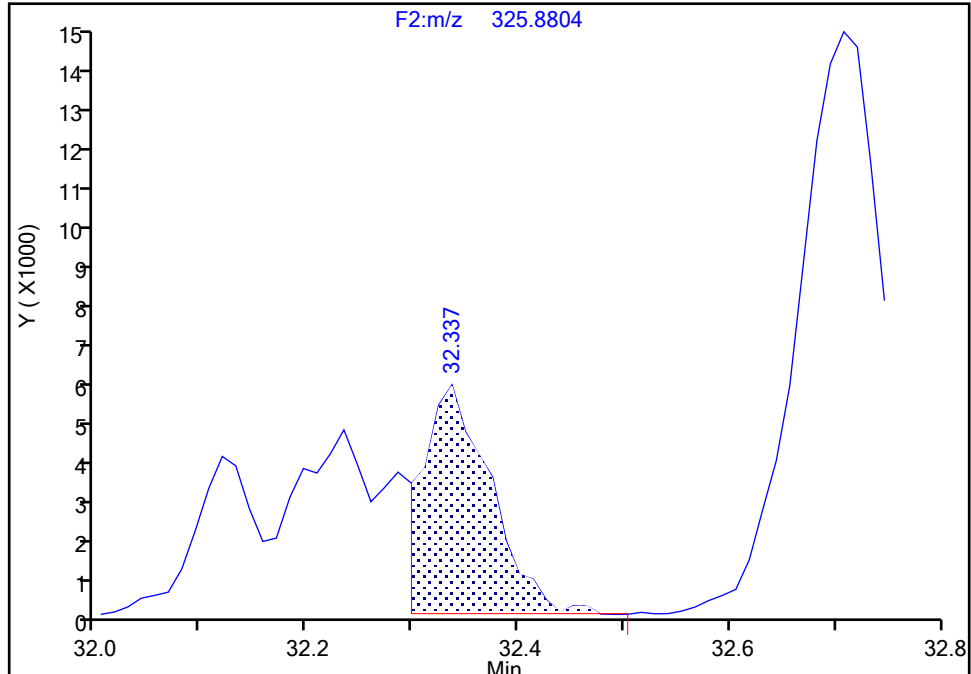
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-112, CAS: 74472-36-9

Signal: 1

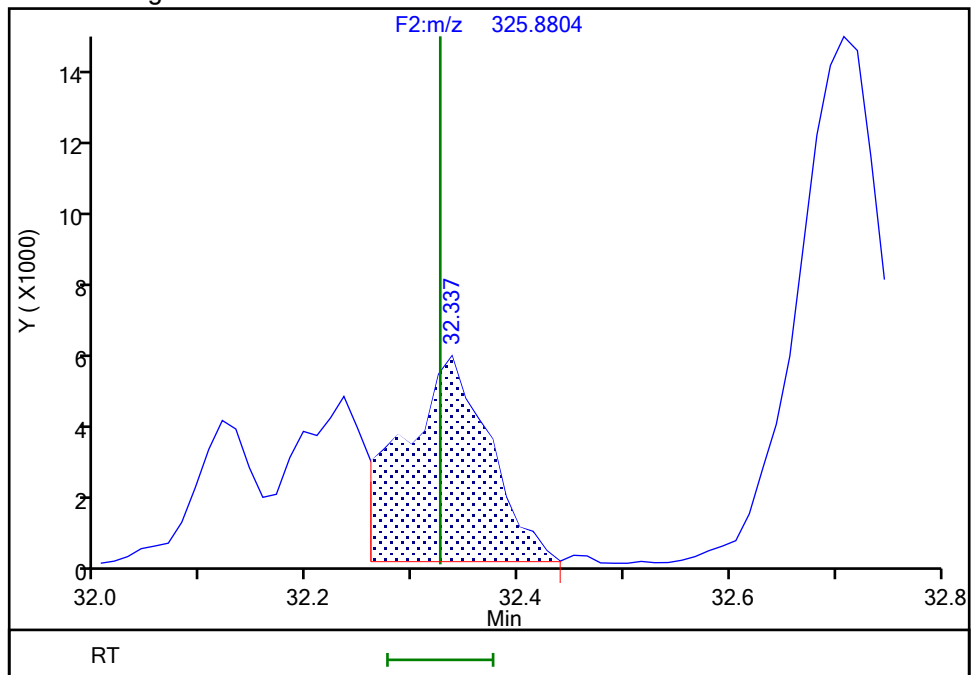
RT: 32.34
Area: 24777
Amount: 0.434584
Amount Units: pg/ul

Processing Integration Results



RT: 32.34
Area: 31739
Amount: 0.511852
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

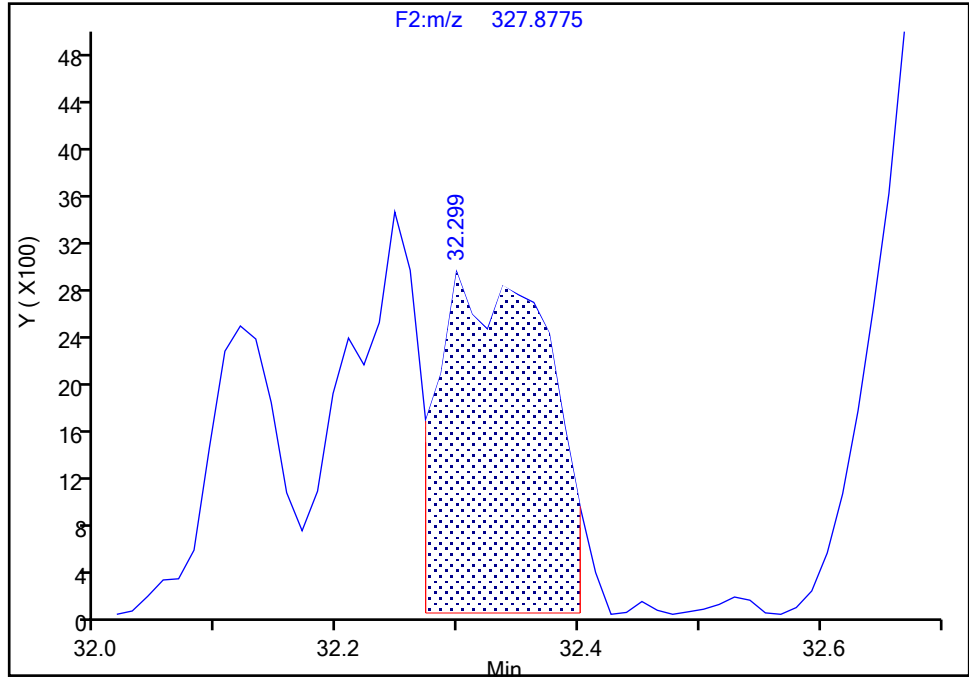
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-112, CAS: 74472-36-9

Signal: 2

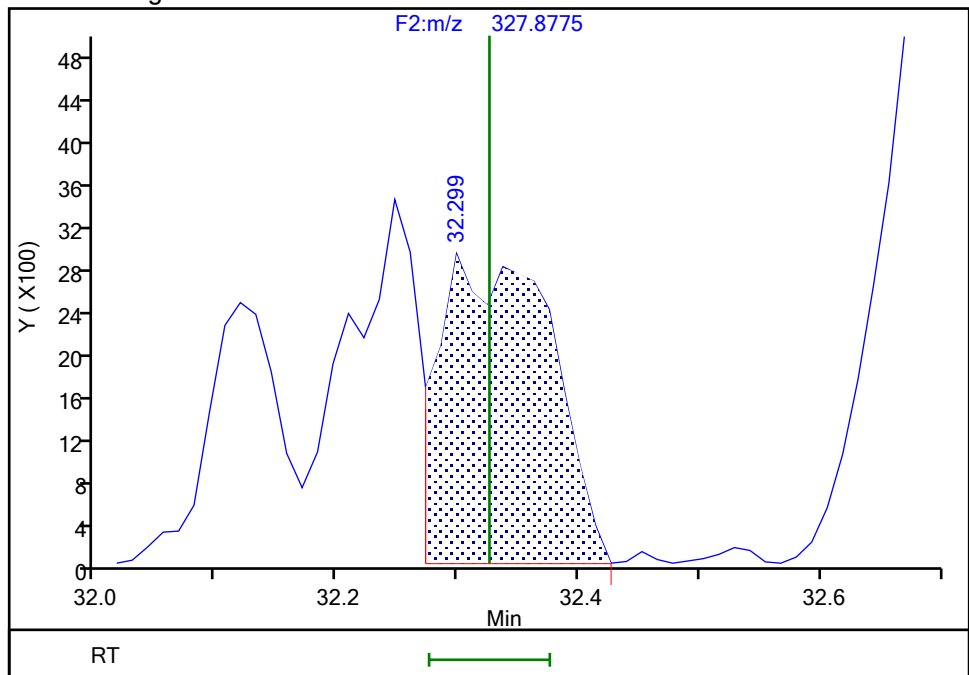
RT: 32.30
Area: 17821
Amount: 0.434584
Amount Units: pg/ul

Processing Integration Results



RT: 32.30
Area: 18375
Amount: 0.511852
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1778 of 3050

BASFWC-McIntosh-009779

9/6/2024

4:11:20 PM

Eurofins Knoxville

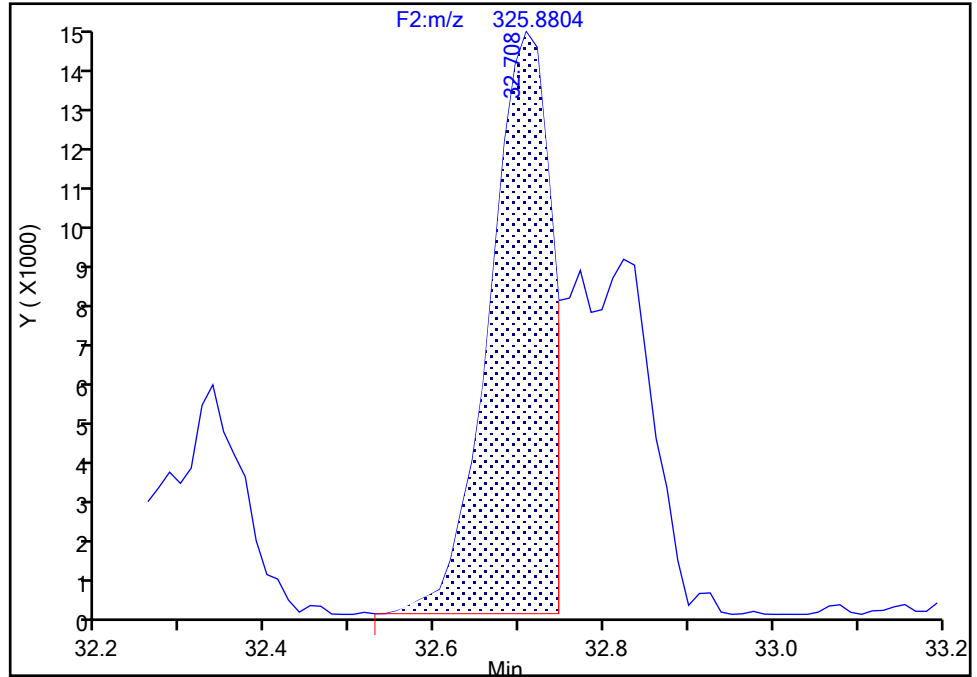
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

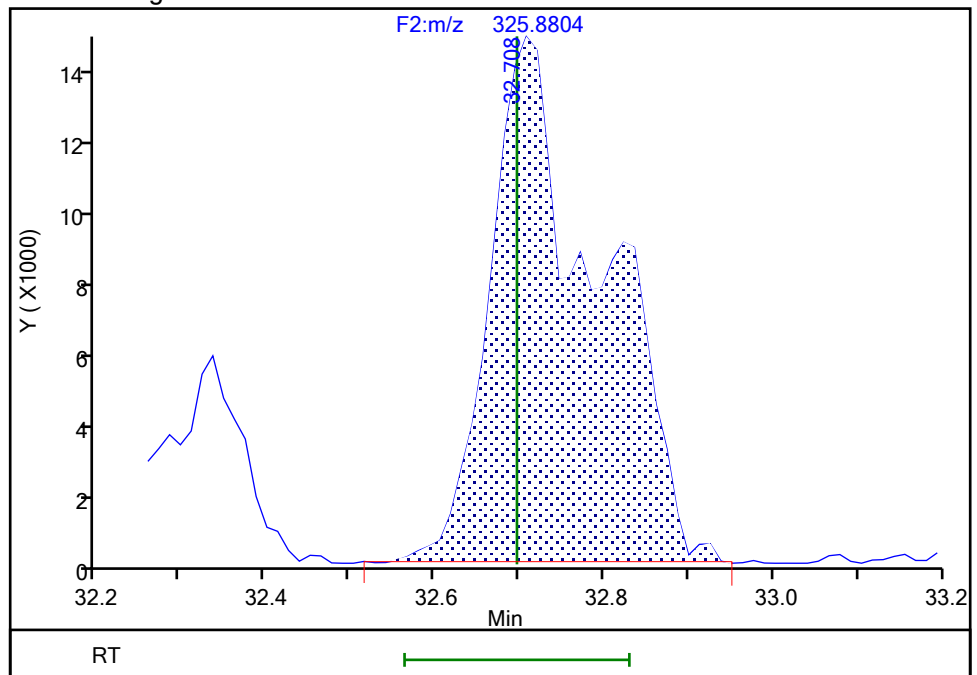
RT: 32.71
Area: 70637
Amount: 1.876000
Amount Units: pg/ul

Processing Integration Results



RT: 32.71
Area: 129704
Amount: 2.908707
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

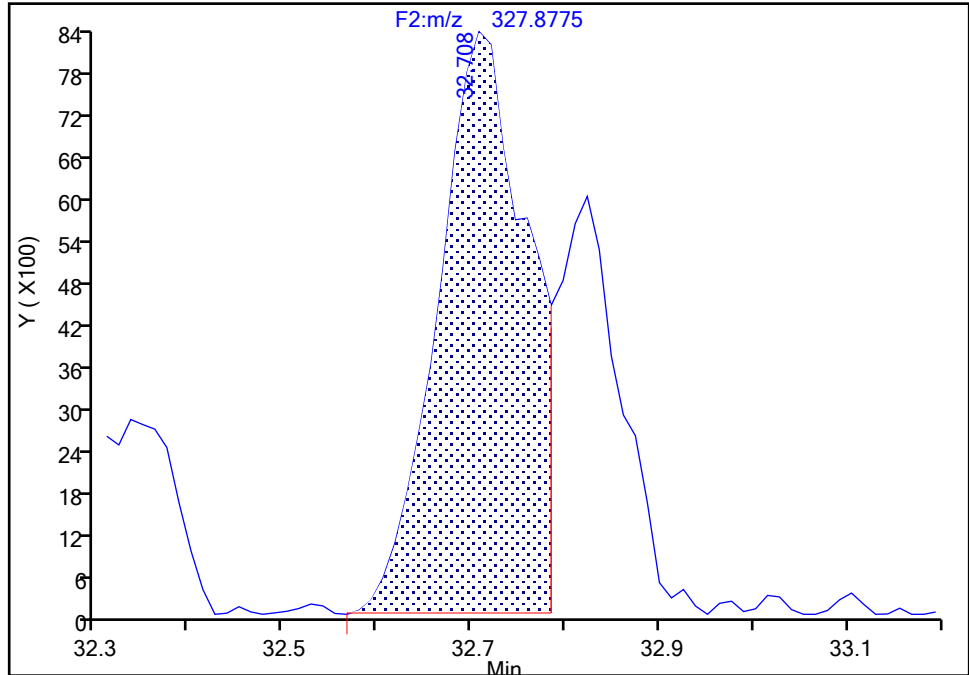
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

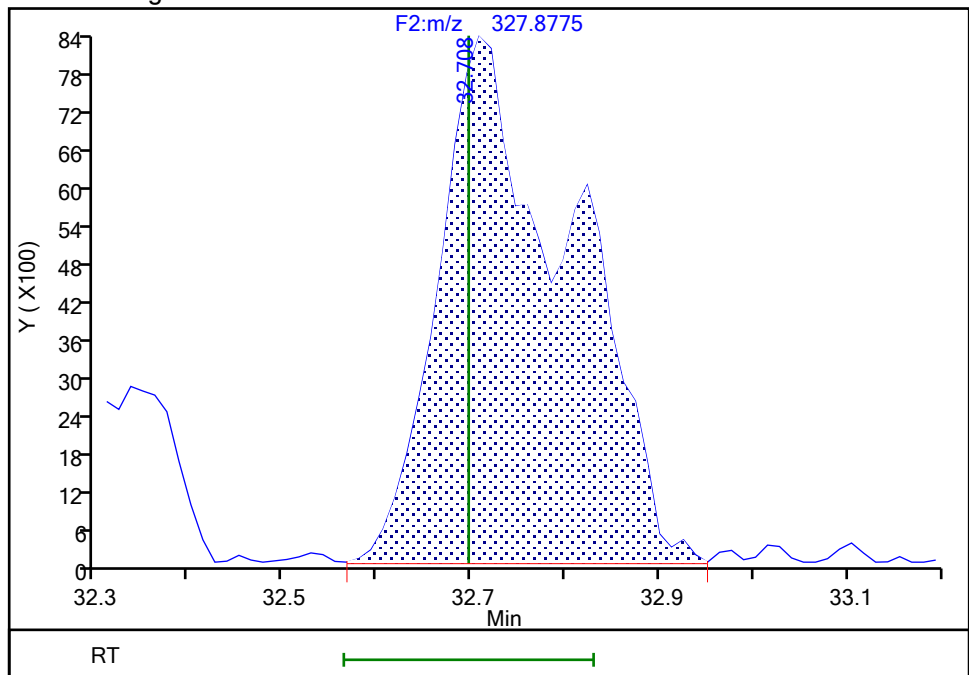
RT: 32.71
Area: 54041
Amount: 1.876000
Amount Units: pg/ul

Processing Integration Results



RT: 32.71
Area: 81652
Amount: 2.908707
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1780 of 3050

BASFWHC-McIntosh-009781

9/6/2024

4:11:20 PM

Eurofins Knoxville

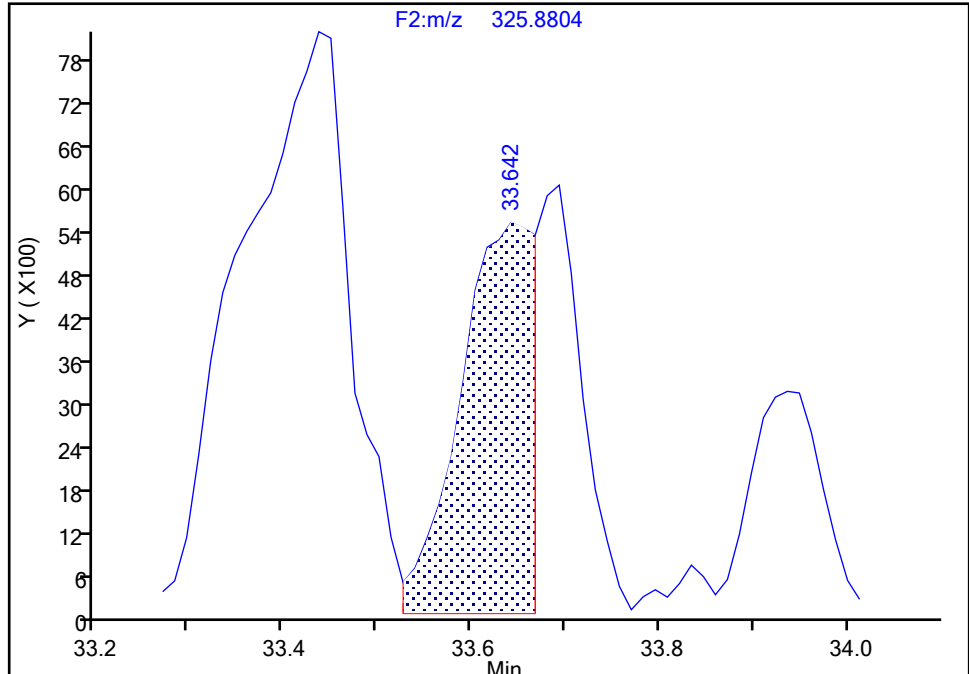
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 1

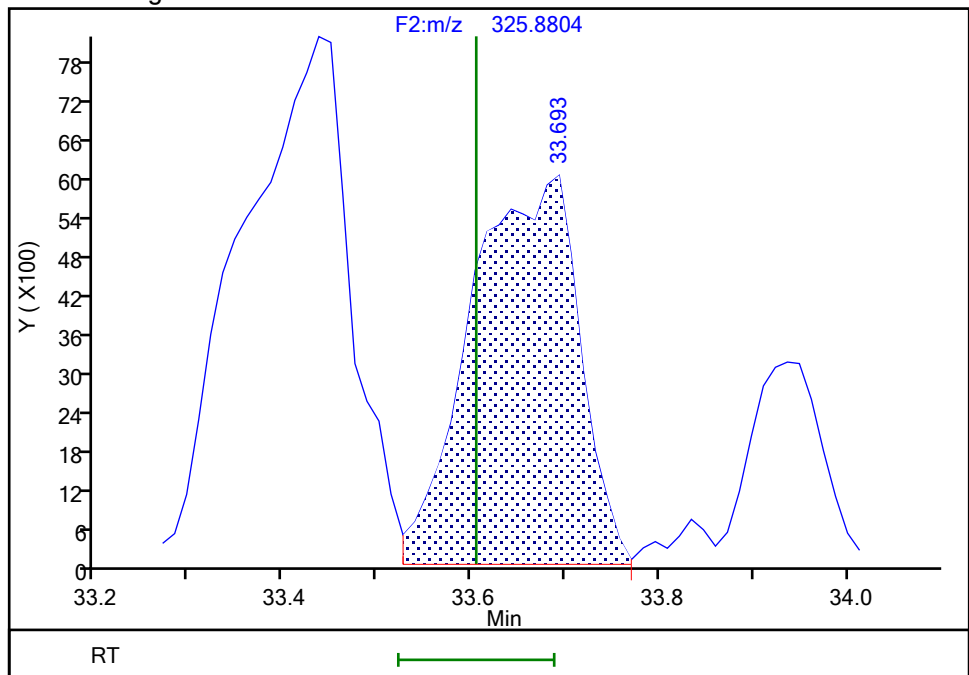
RT: 33.64
Area: 28653
Amount: 0.718077
Amount Units: pg/ul

Processing Integration Results



RT: 33.69
Area: 48048
Amount: 1.008427
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

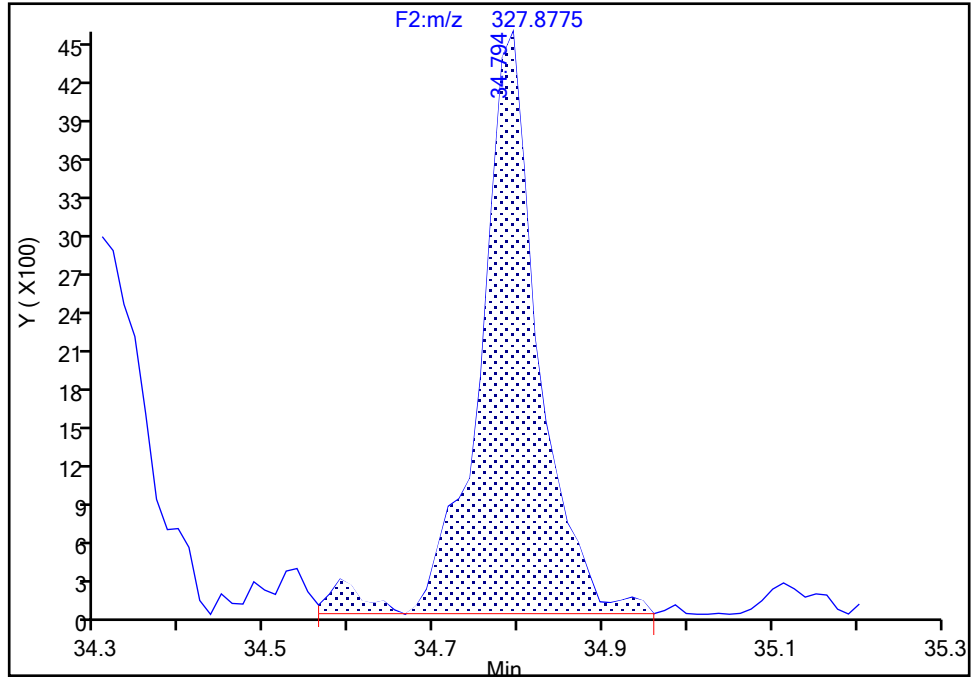
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-120, CAS: 68194-12-7

Signal: 2

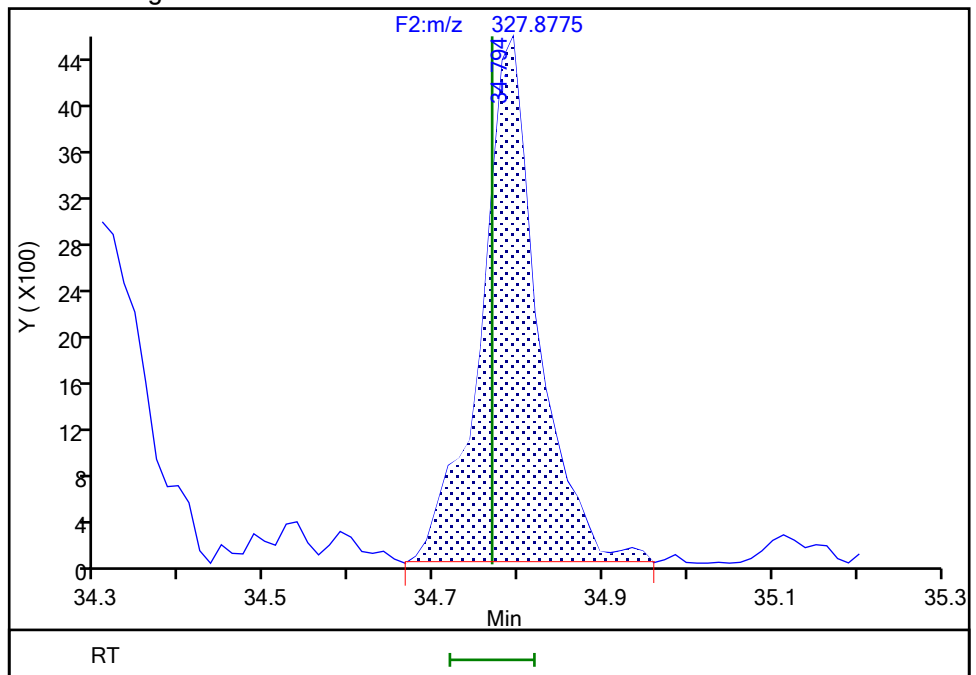
RT: 34.79
Area: 21979
Amount: 0.514083
Amount Units: pg/ul

Processing Integration Results



RT: 34.79
Area: 21230
Amount: 0.518058
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:31:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

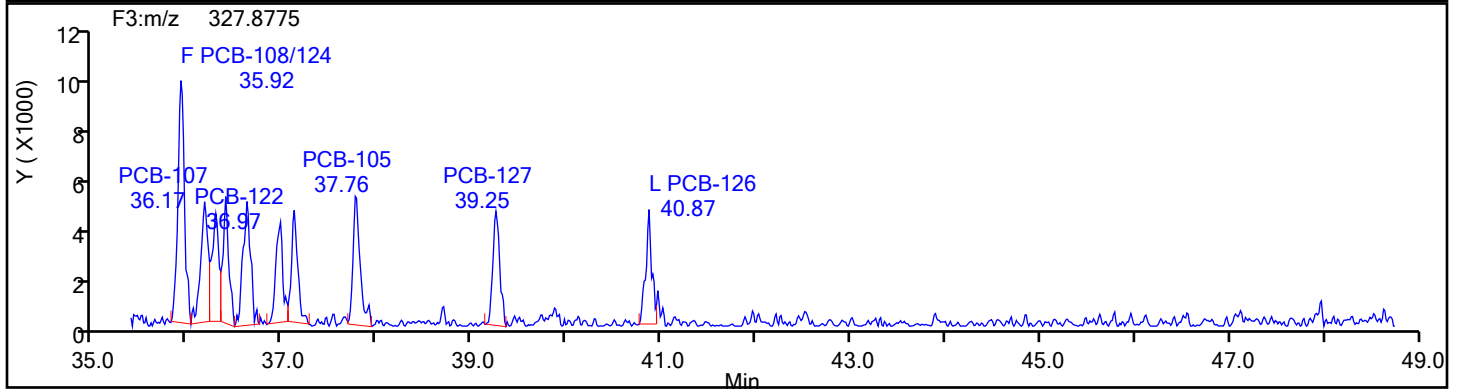
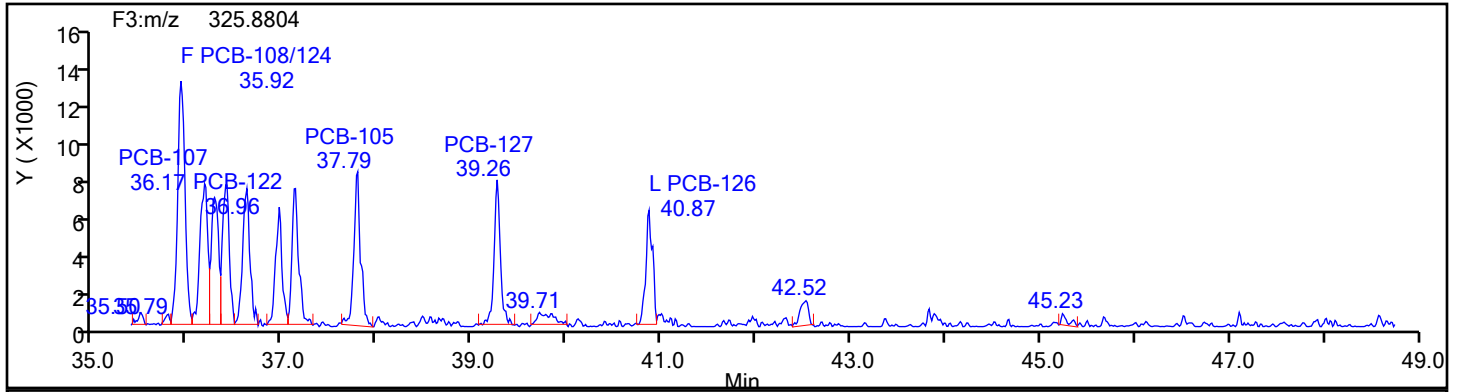
Worklist#: 87130

Sample Line#: 1

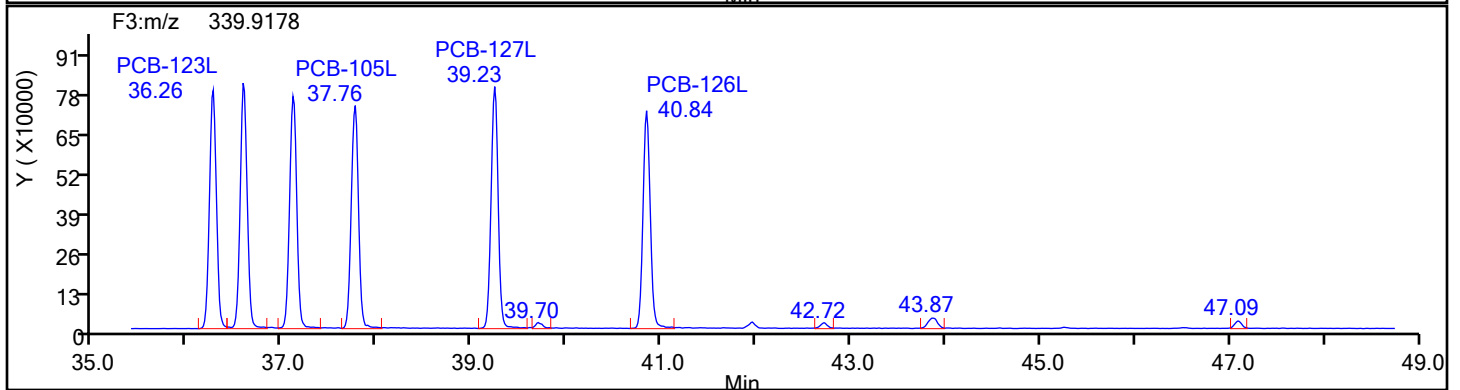
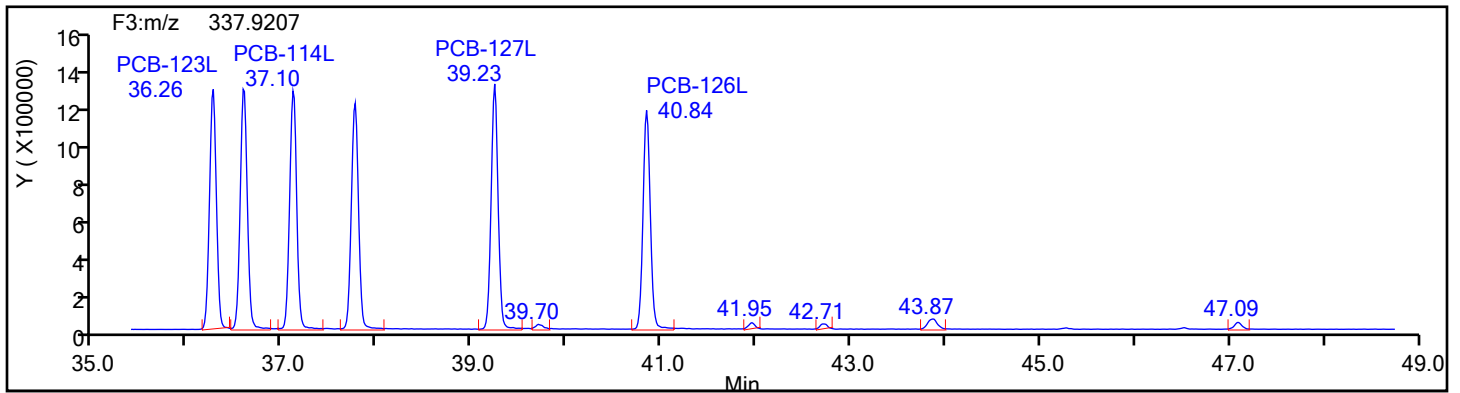
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

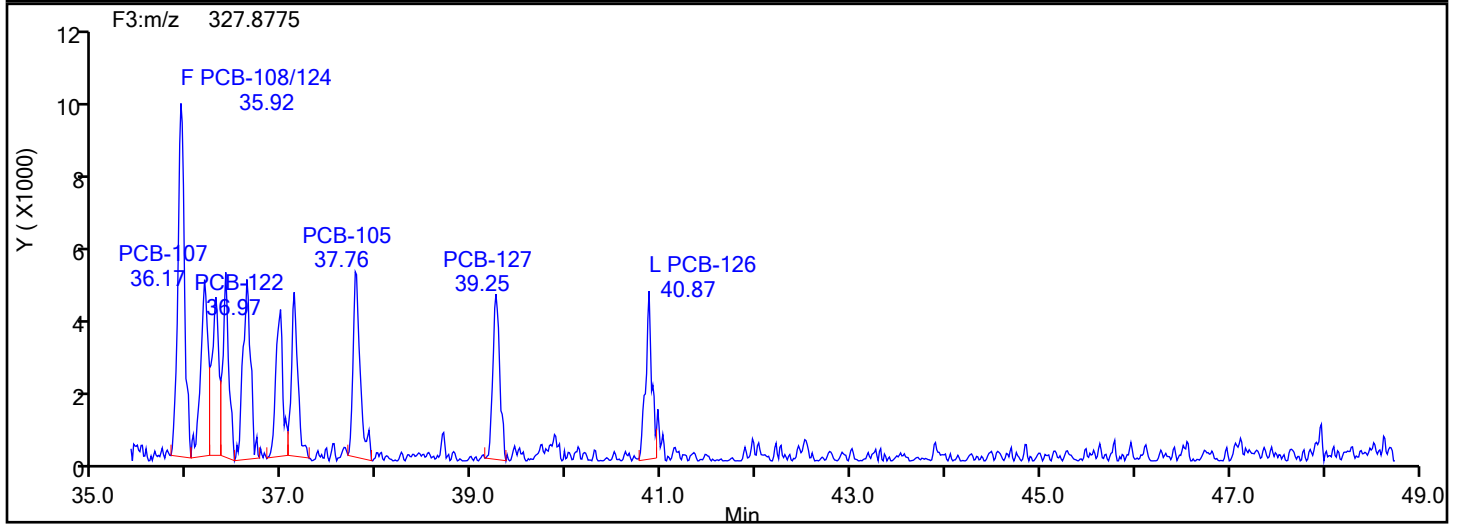
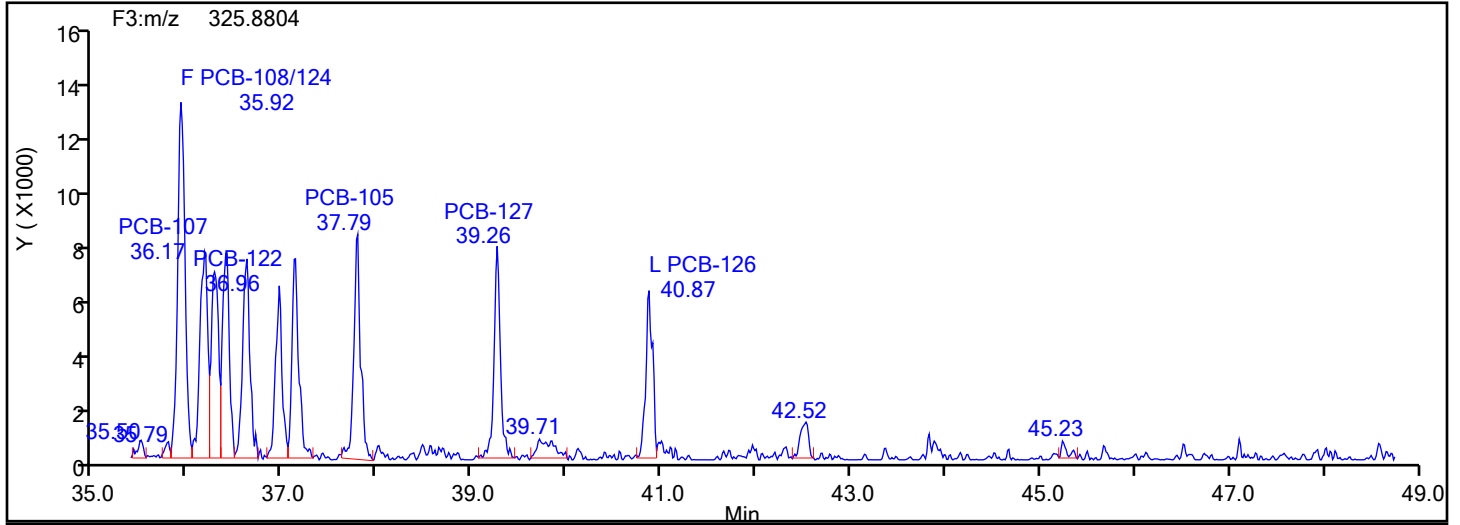
Worklist#: 87130

Sample Line#: 1

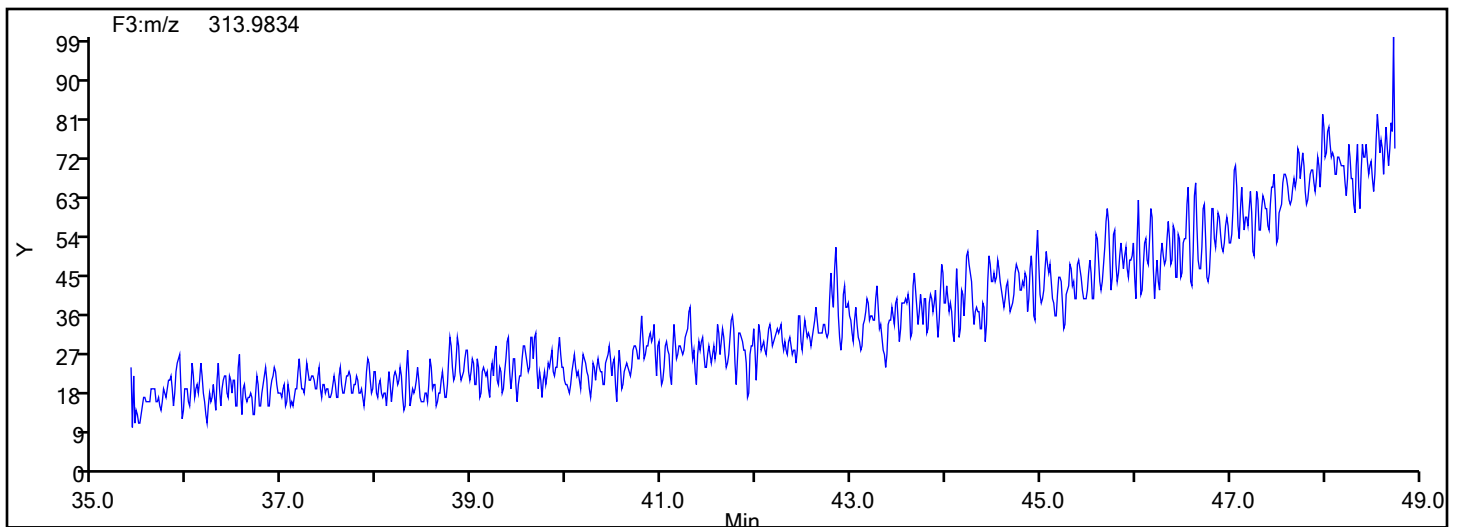
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

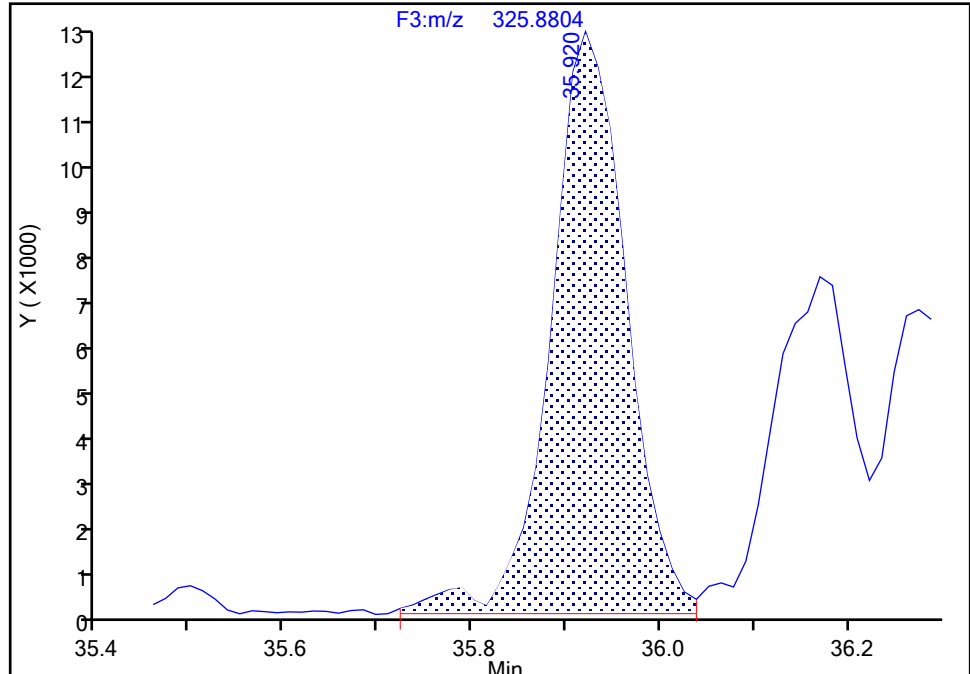
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 1

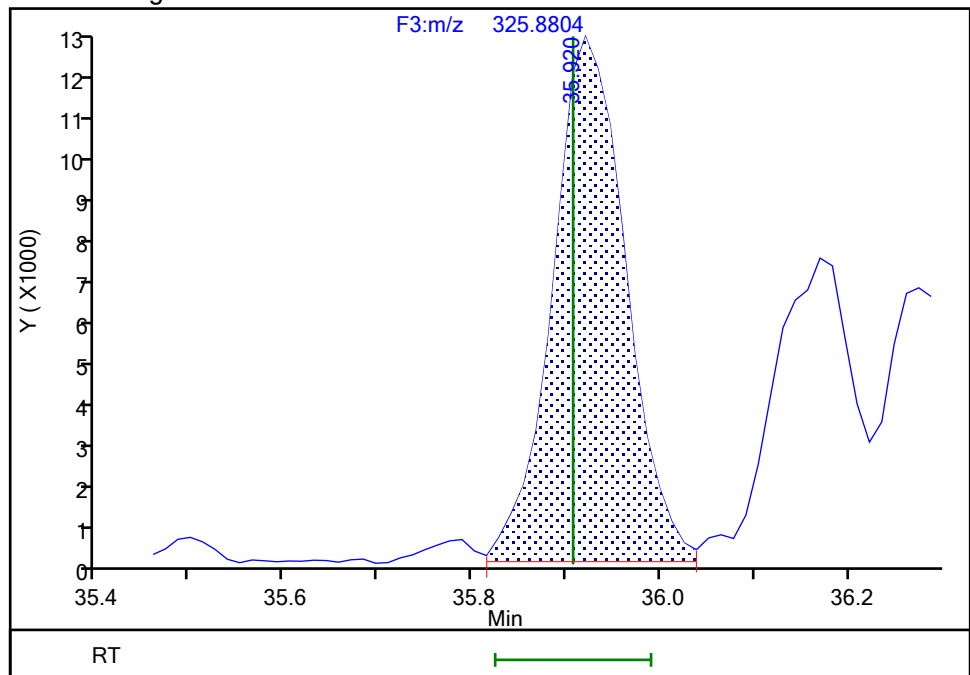
RT: 35.92
Area: 71057
Amount: 1.000854
Amount Units: pg/ul

Processing Integration Results



RT: 35.92
Area: 69109
Amount: 0.968568
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:31:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

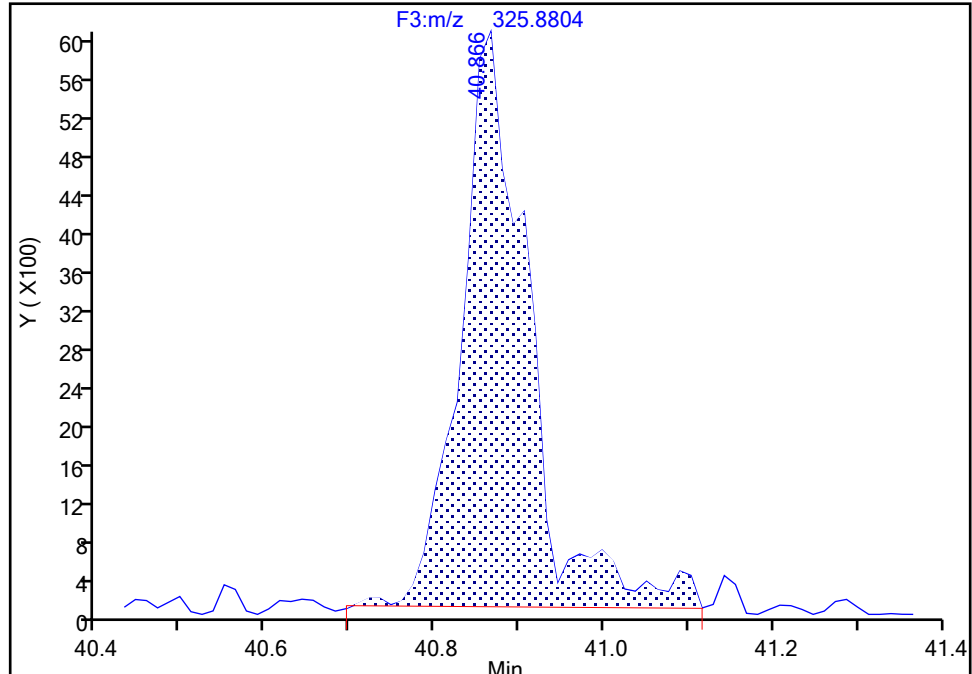
Detector F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 1

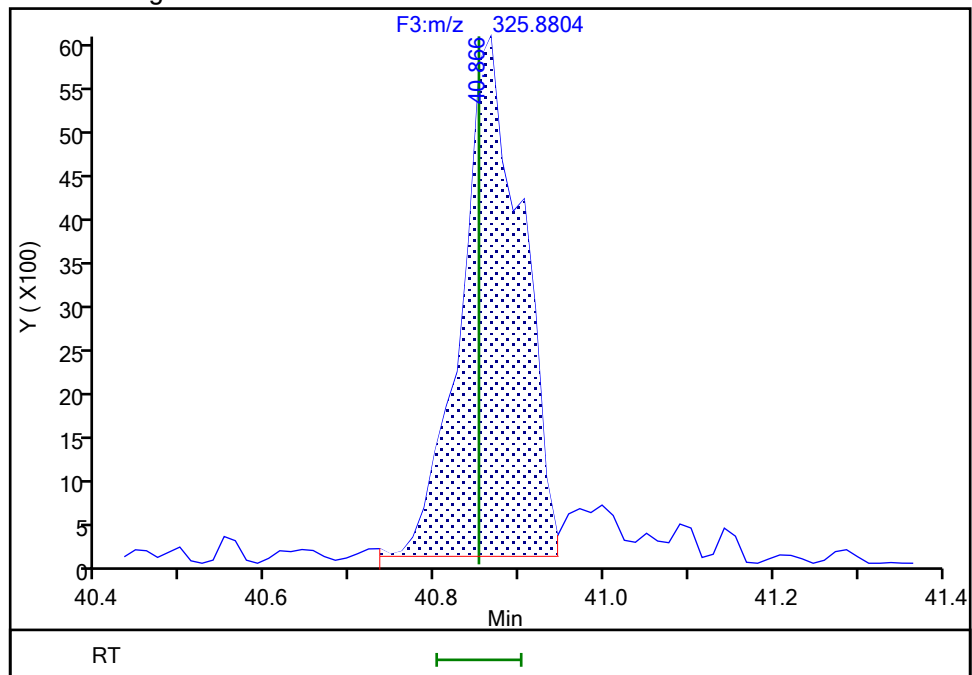
RT: 40.87
Area: 33362
Amount: 0.463722
Amount Units: pg/ul

Processing Integration Results



RT: 40.87
Area: 29722
Amount: 0.453490
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

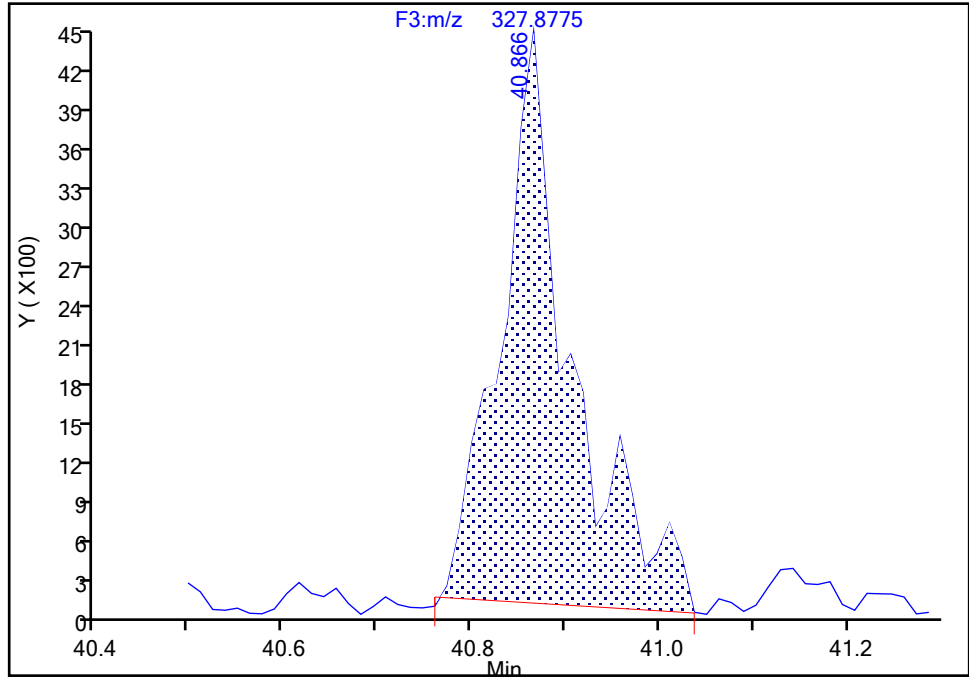
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-126, CAS: 57465-28-8

Signal: 2

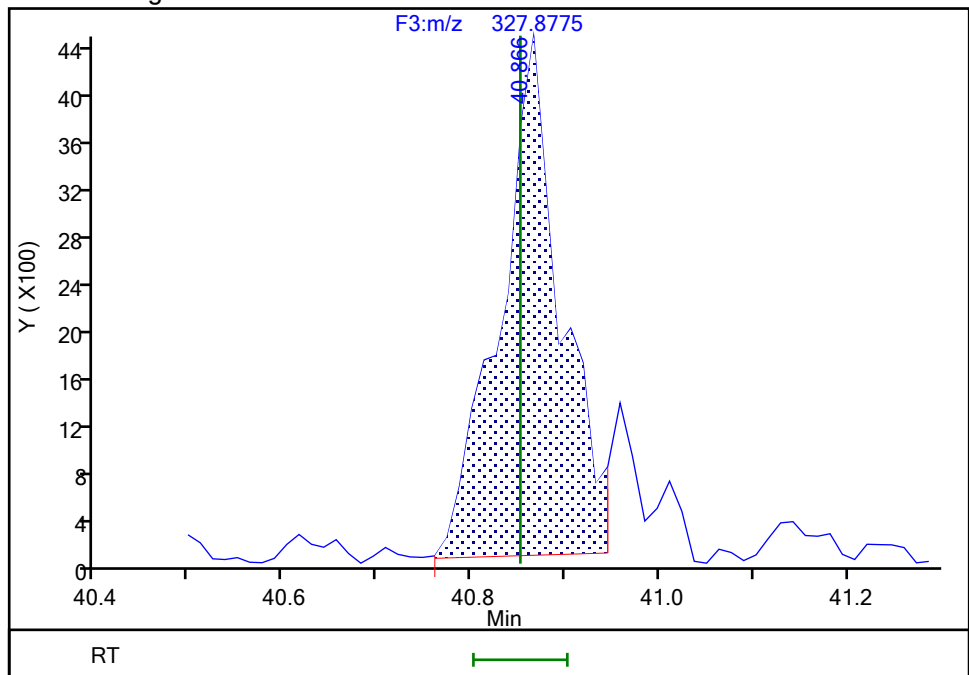
RT: 40.87
Area: 22952
Amount: 0.463722
Amount Units: pg/ul

Processing Integration Results



RT: 40.87
Area: 19848
Amount: 0.453490
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 1787 of 3050BASFWC-McIntosh-009788
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

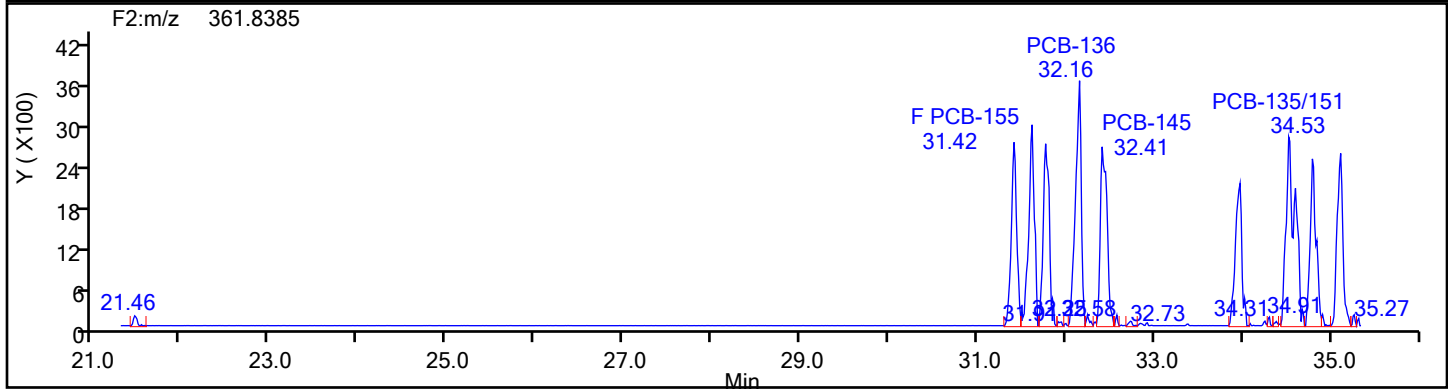
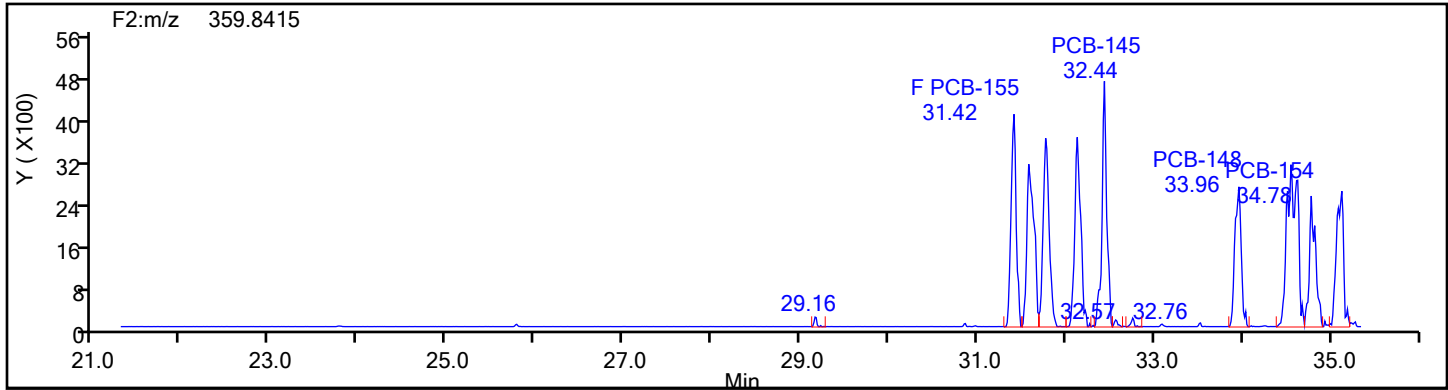
Worklist#: 87130

Sample Line#: 1

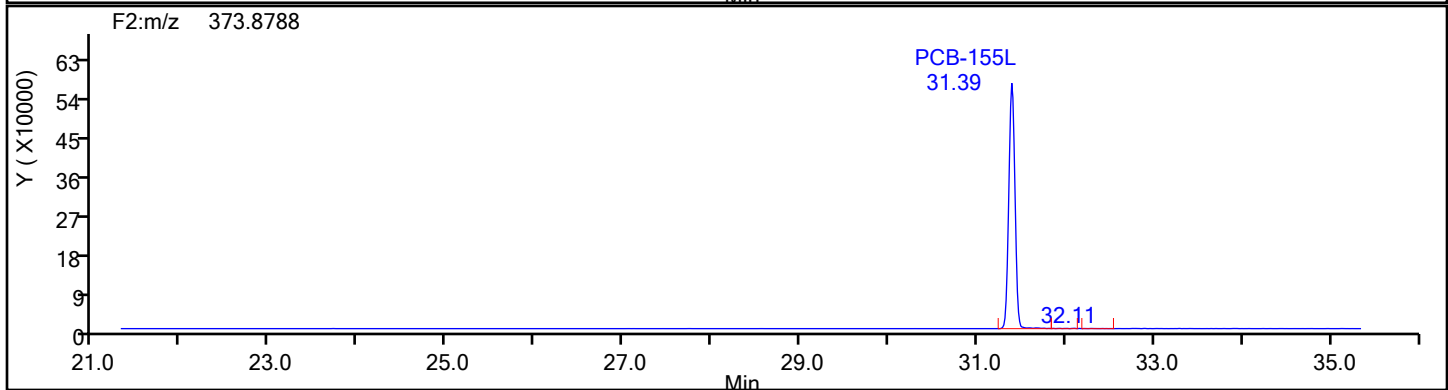
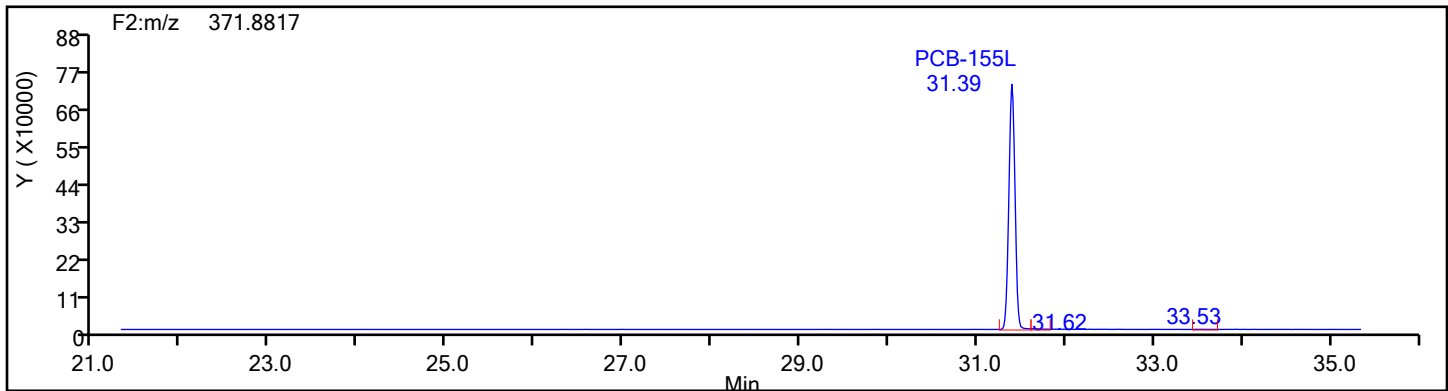
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

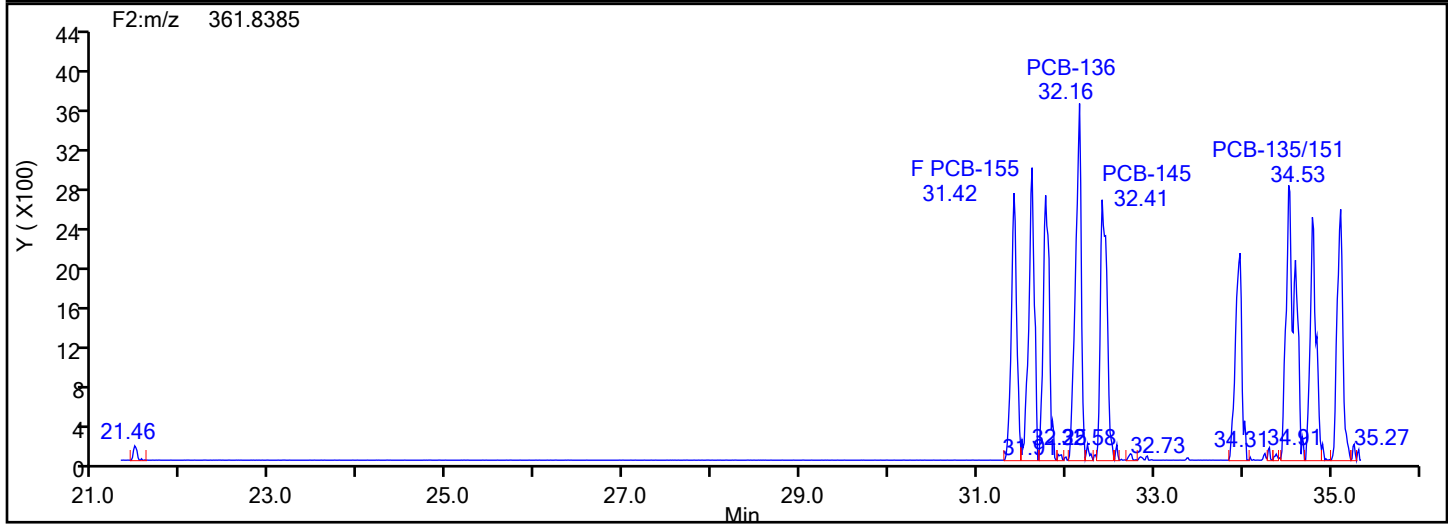
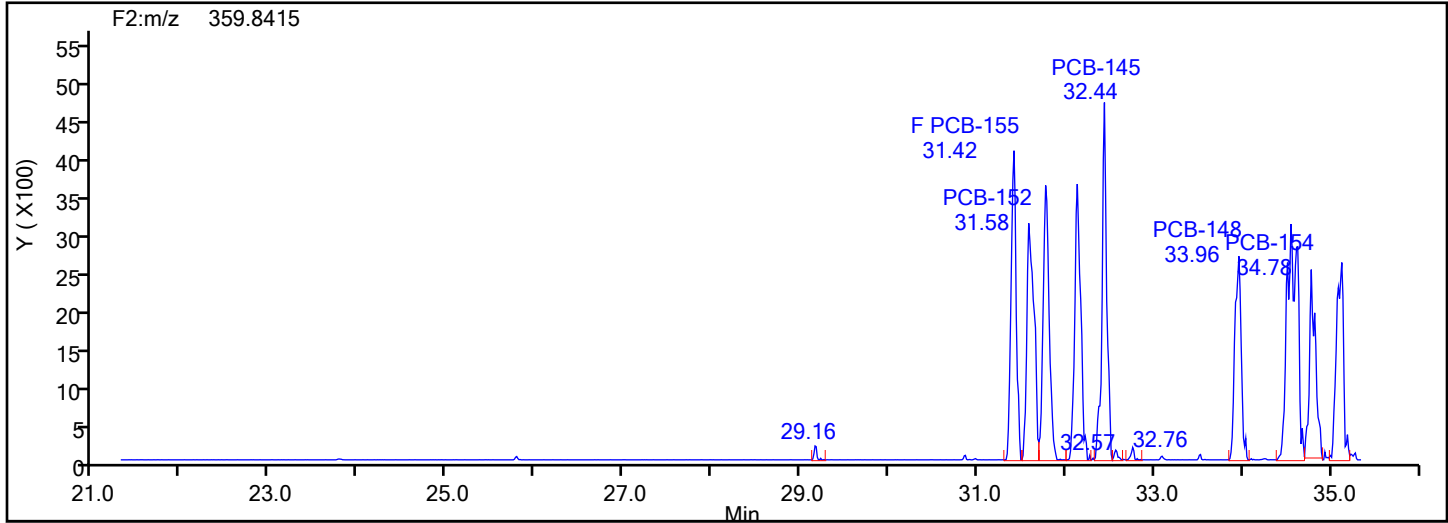
Worklist#: 87130

Sample Line#: 1

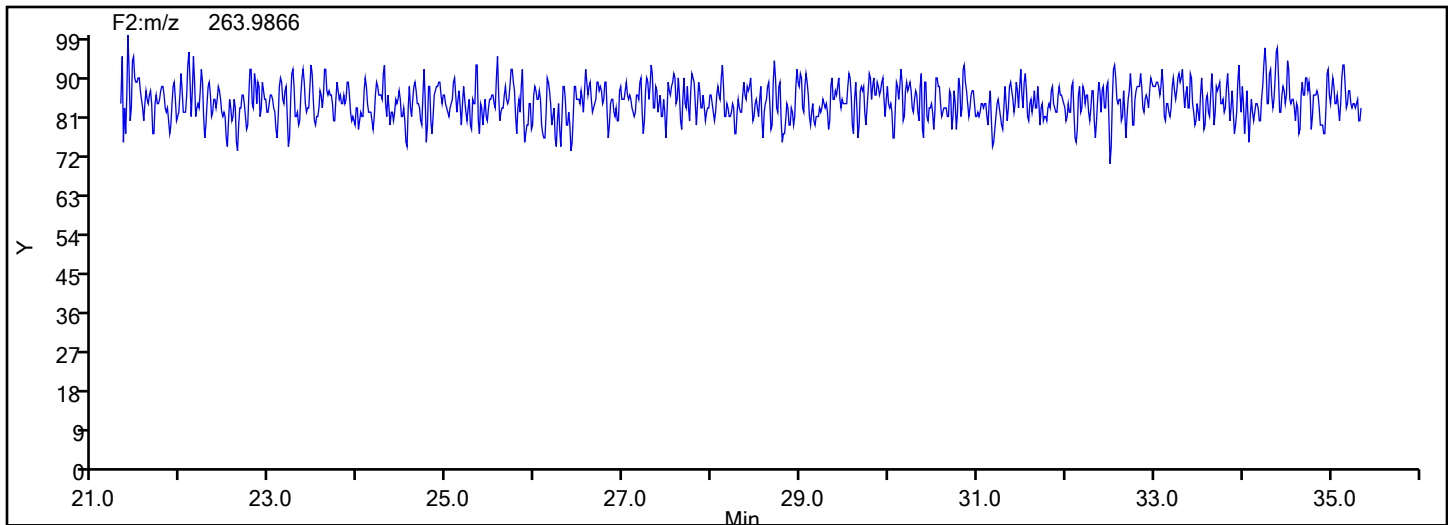
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

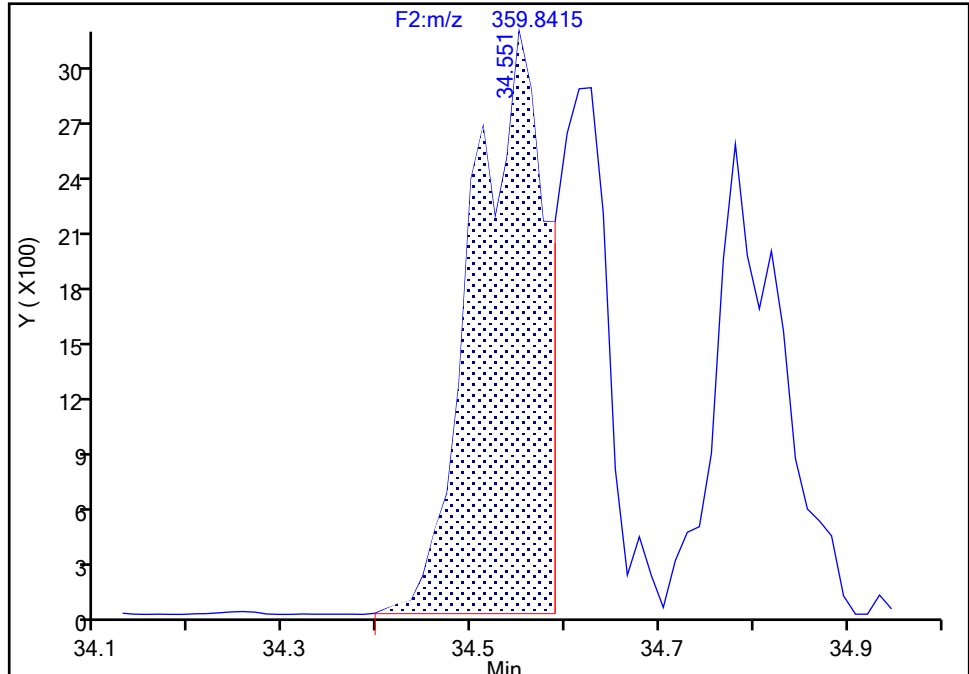
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

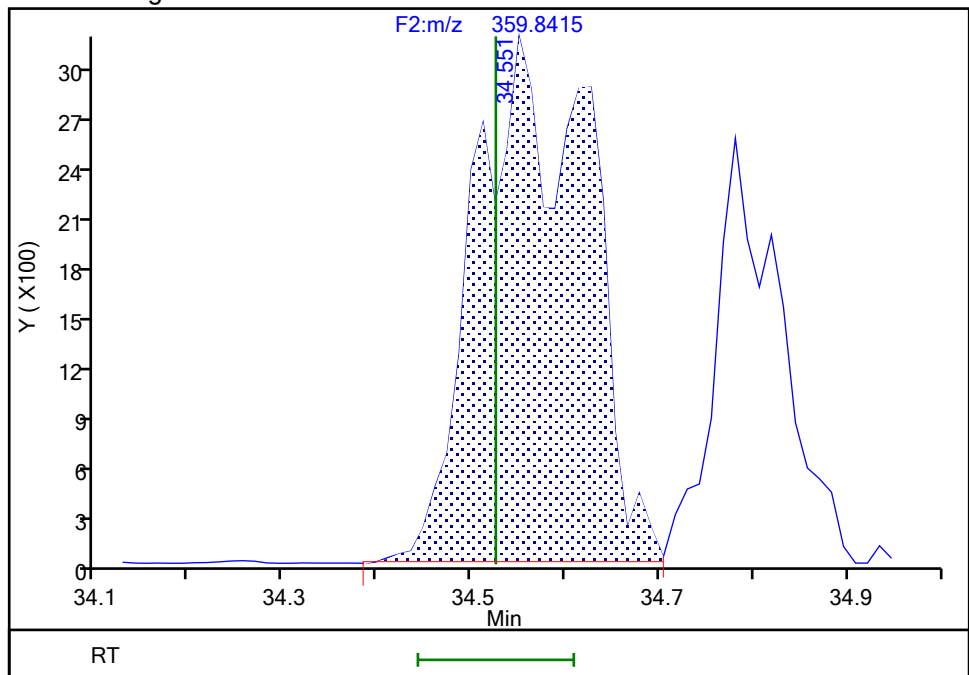
RT: 34.55
Area: 16255
Amount: 0.654016
Amount Units: pg/ul

Processing Integration Results



RT: 34.55
Area: 26170
Amount: 1.004069
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

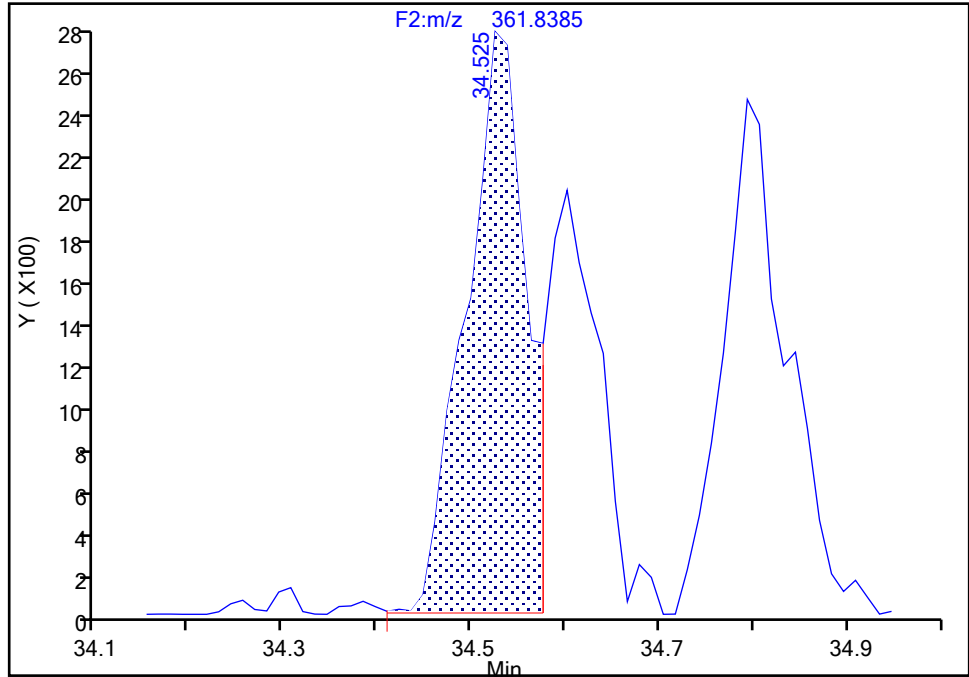
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

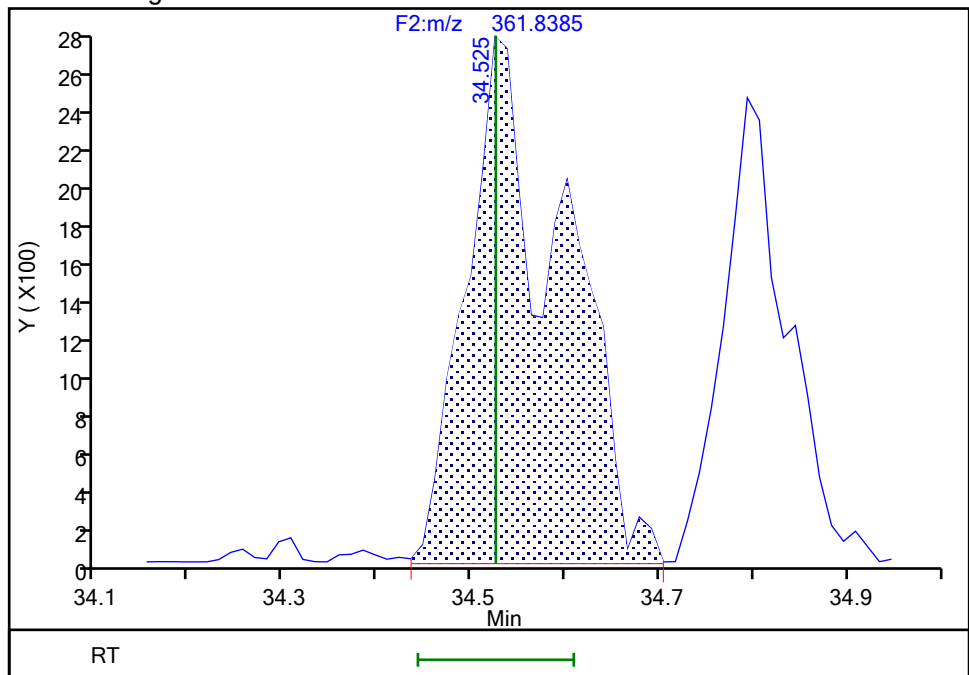
RT: 34.53
Area: 12145
Amount: 0.654016
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 19780
Amount: 1.004069
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 1791 of 3050BASFWC-McIntosh-009792
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

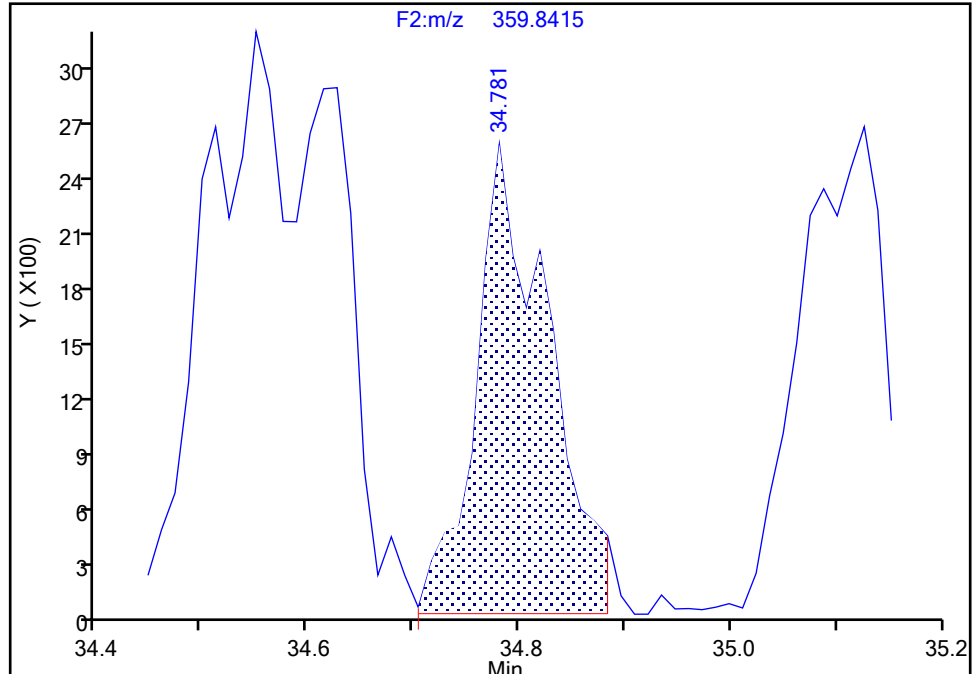
Detector F2(21.81 :35.54)

PCB-154, CAS: 60145-22-4

Signal: 1

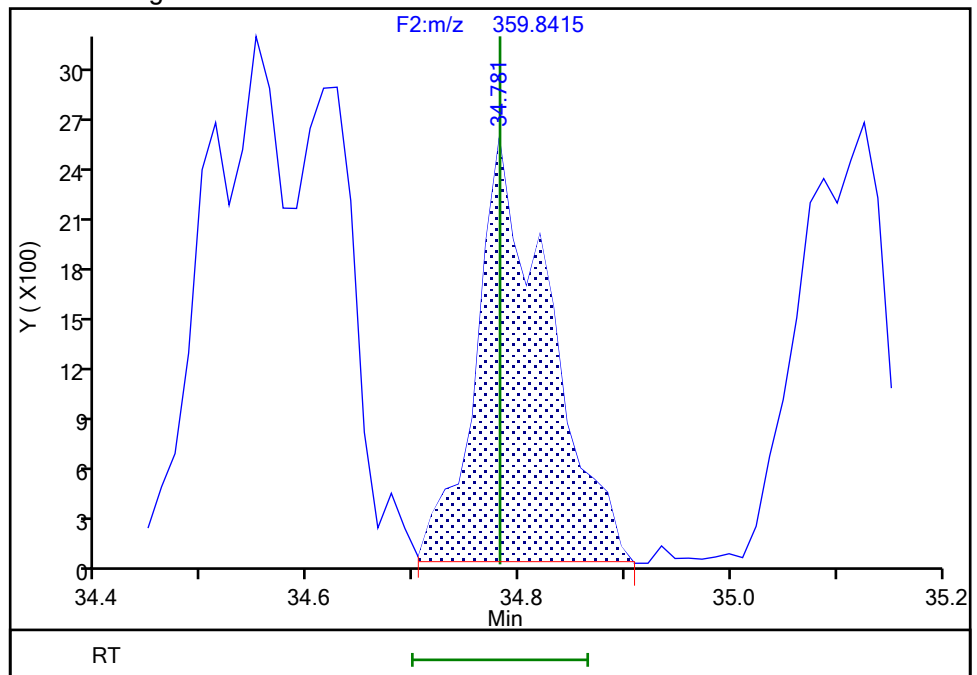
RT: 34.78
Area: 11920
Amount: 0.454148
Amount Units: pg/ul

Processing Integration Results



RT: 34.78
Area: 11960
Amount: 0.455849
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:31:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

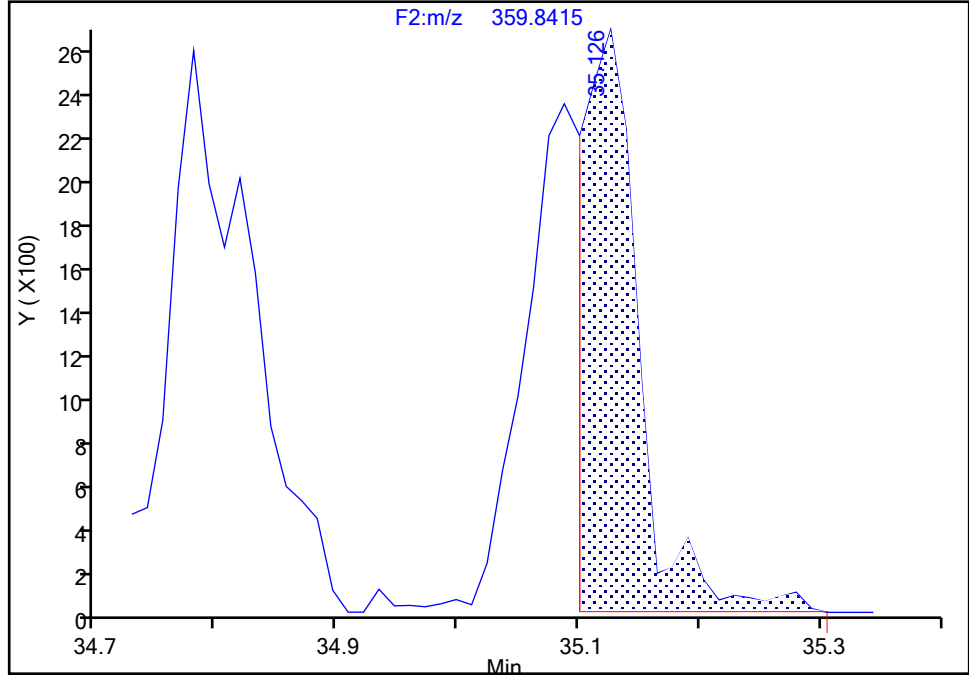
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-144, CAS: 68194-14-9

Signal: 1

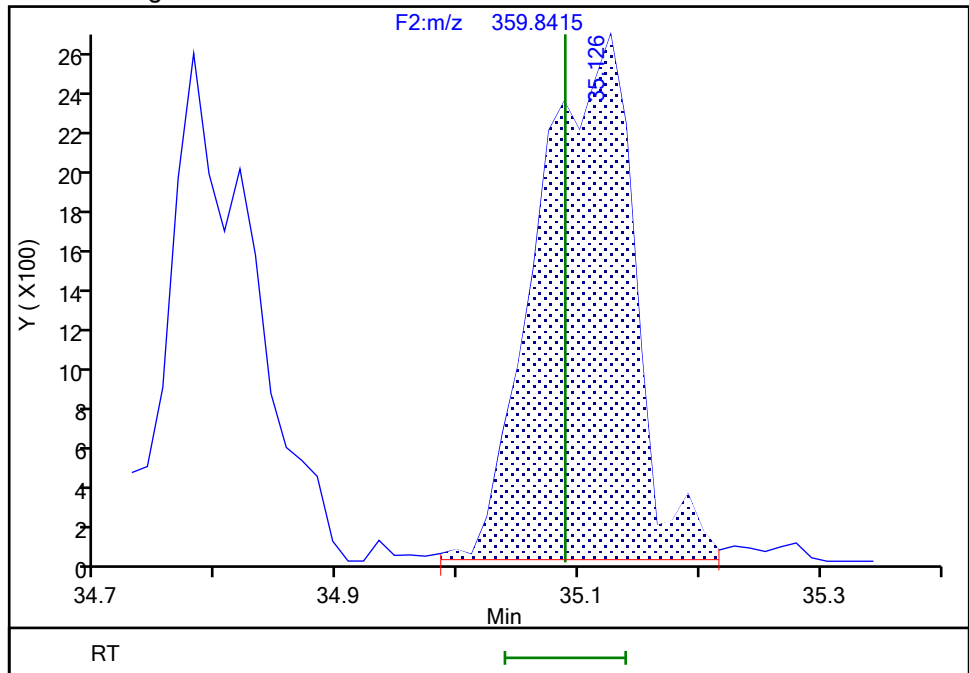
RT: 35.13
Area: 8058
Amount: 0.432703
Amount Units: pg/ul

Processing Integration Results



RT: 35.13
Area: 14483
Amount: 0.525688
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

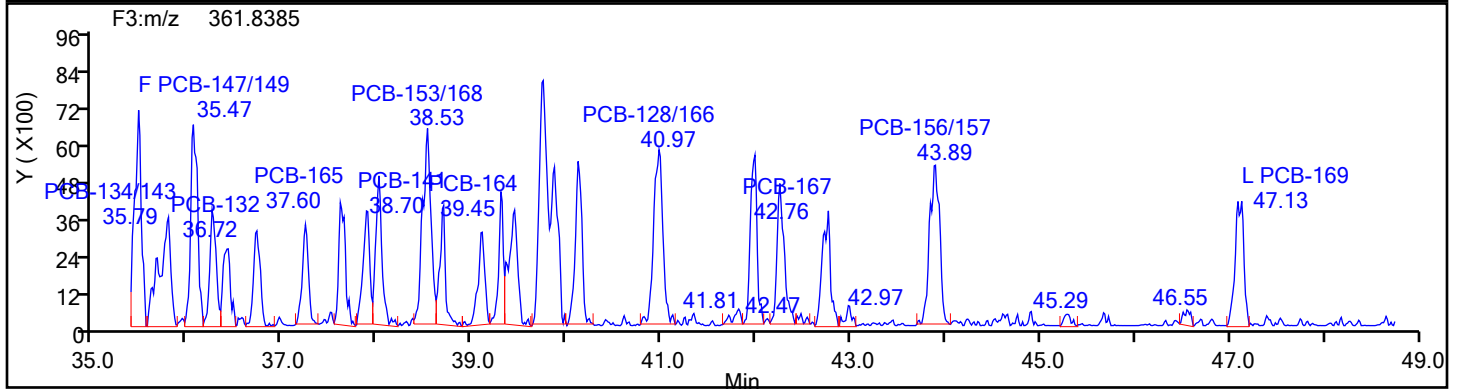
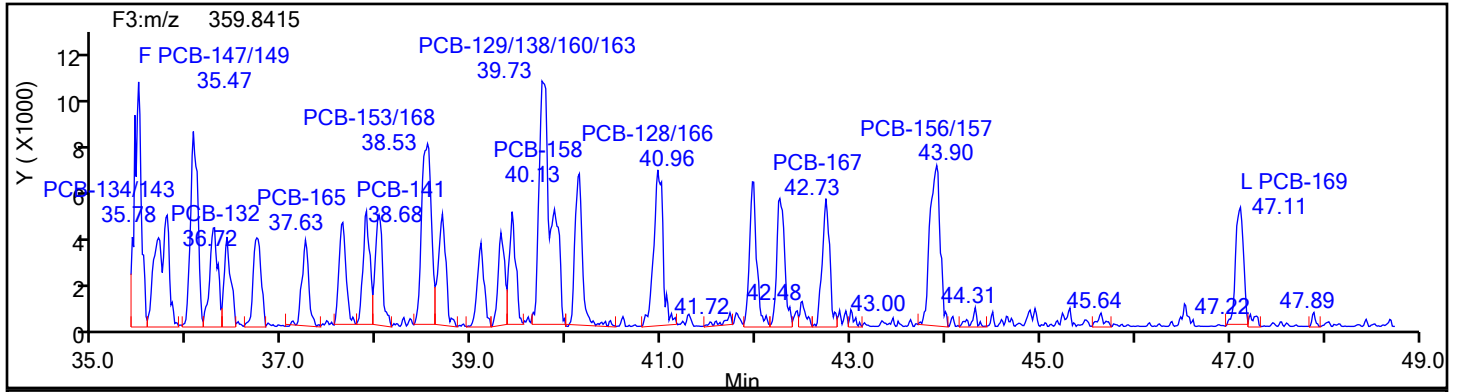
Worklist#: 87130

Sample Line#: 1

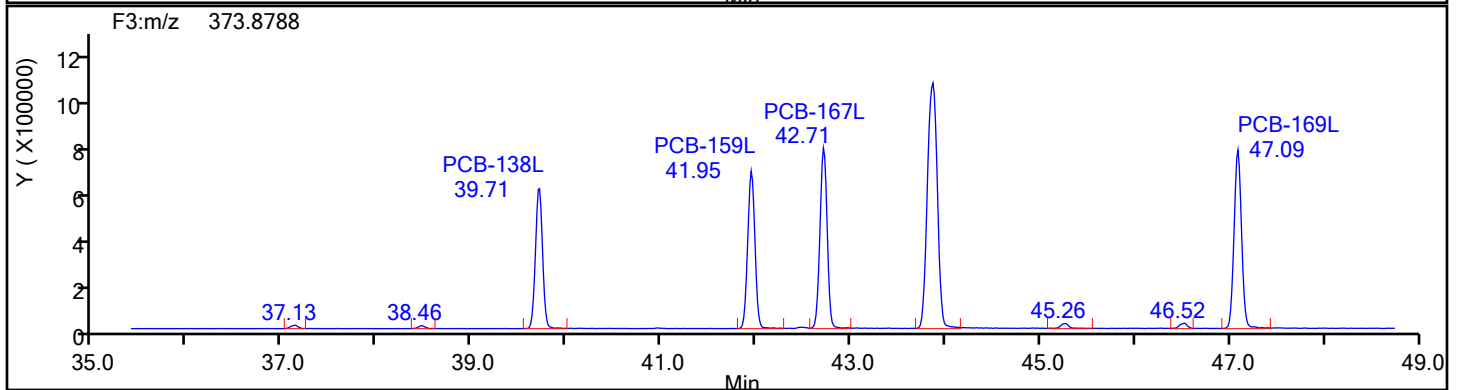
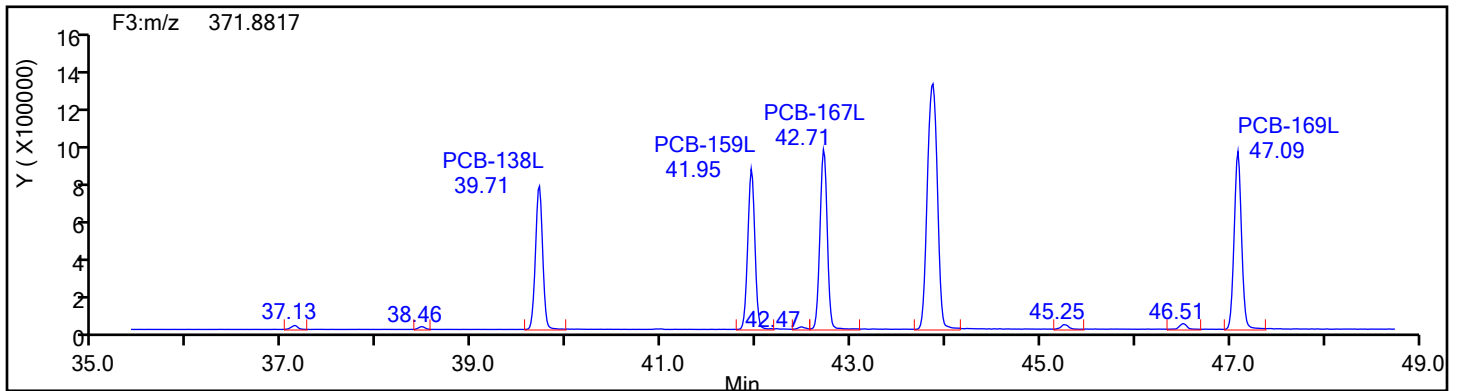
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

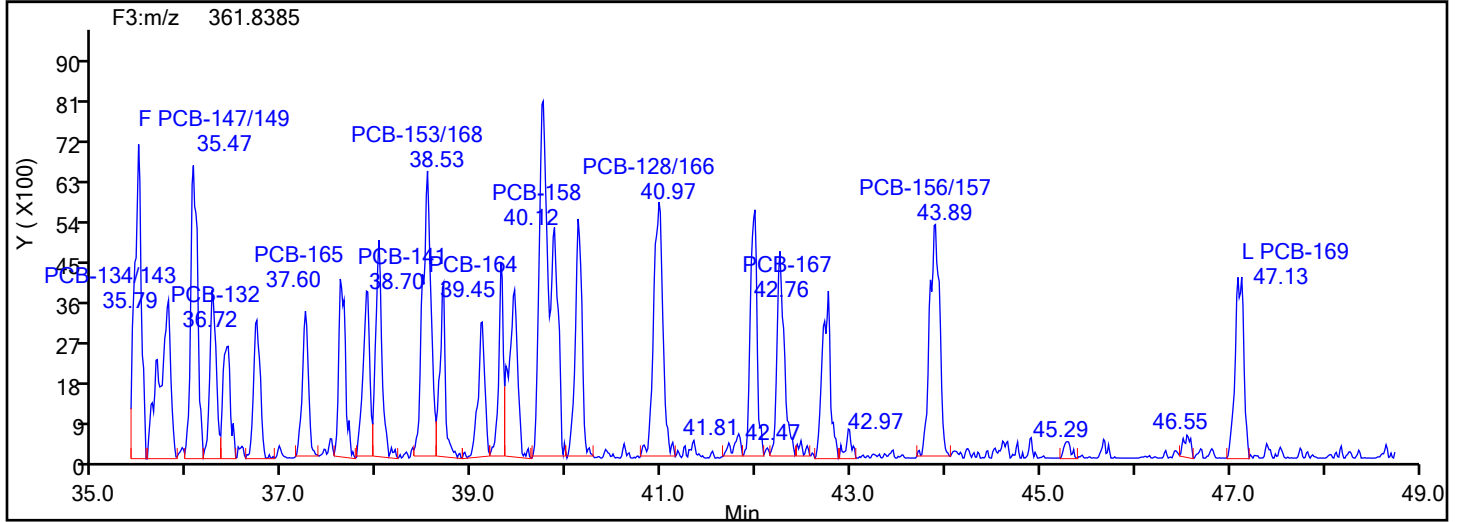
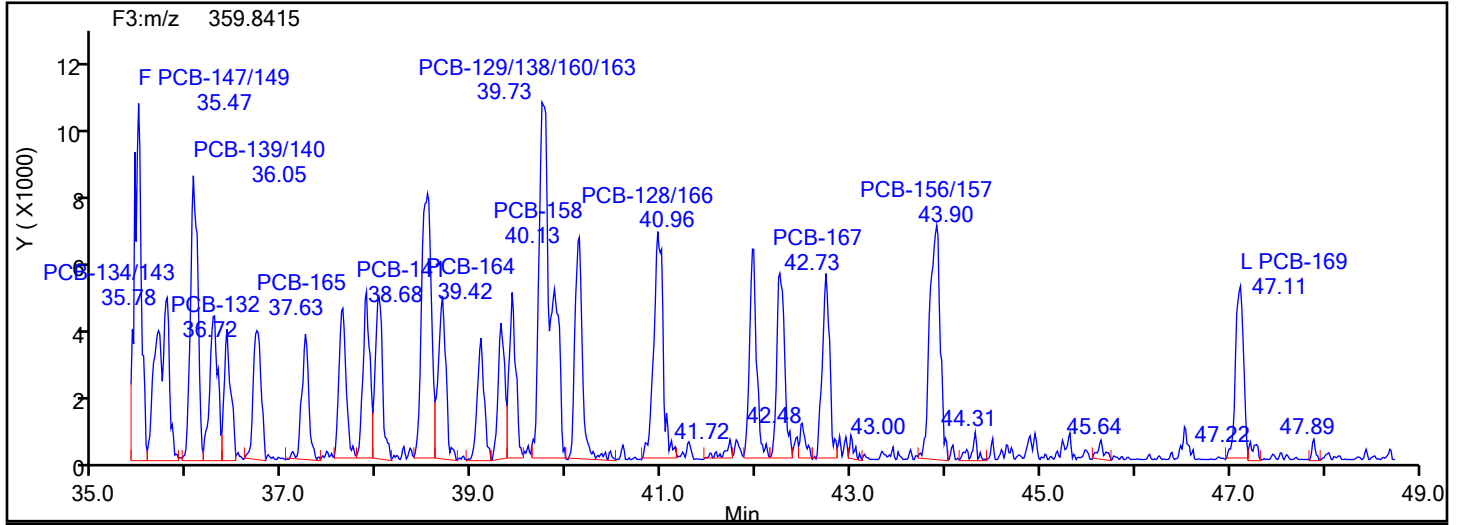
Worklist#: 87130

Sample Line#: 1

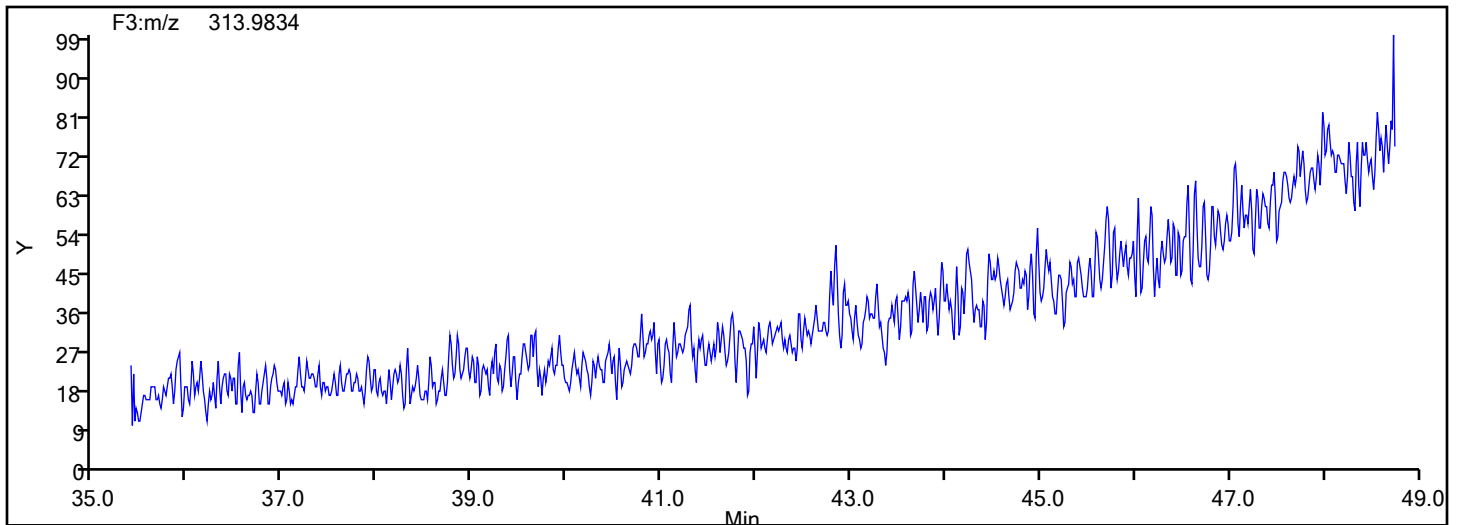
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

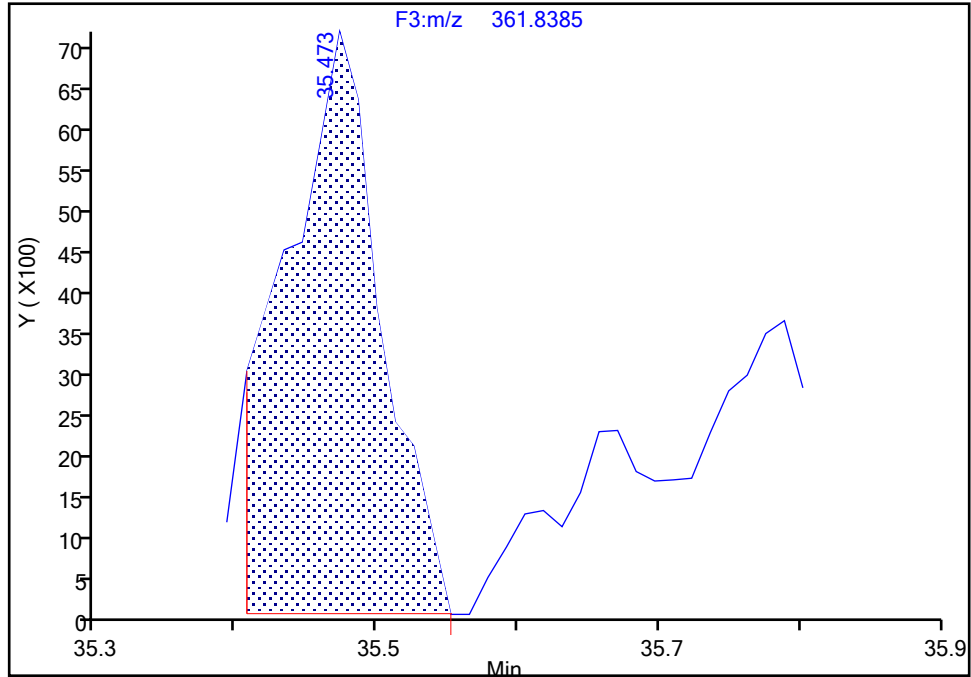
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-147/149, CAS: STL01821

Signal: 2

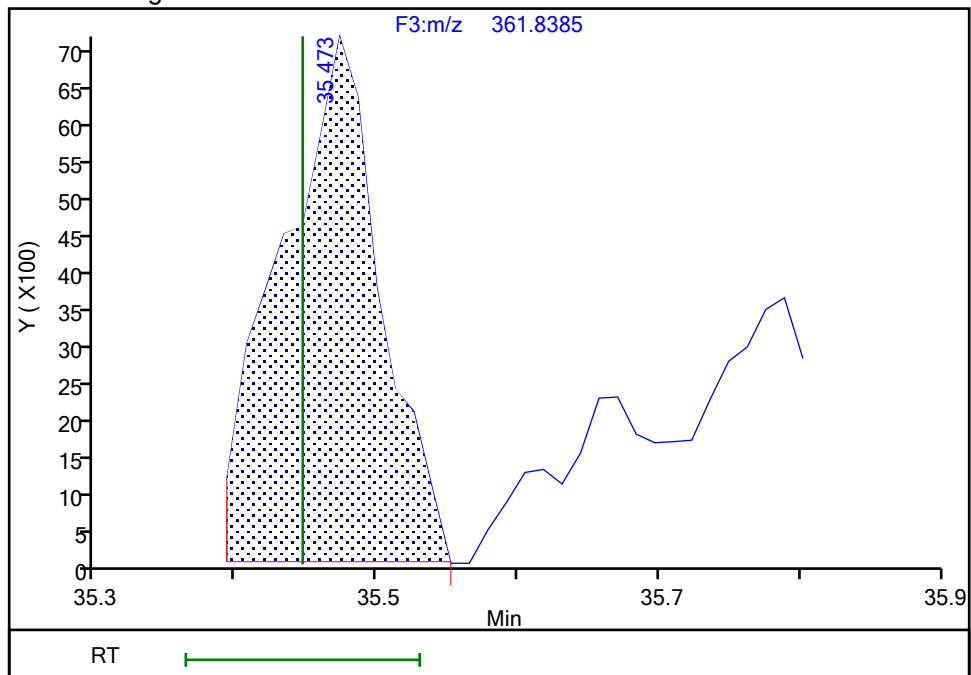
RT: 35.47
Area: 33615
Amount: 1.063615
Amount Units: pg/ul

Processing Integration Results



RT: 35.47
Area: 35175
Amount: 1.079132
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

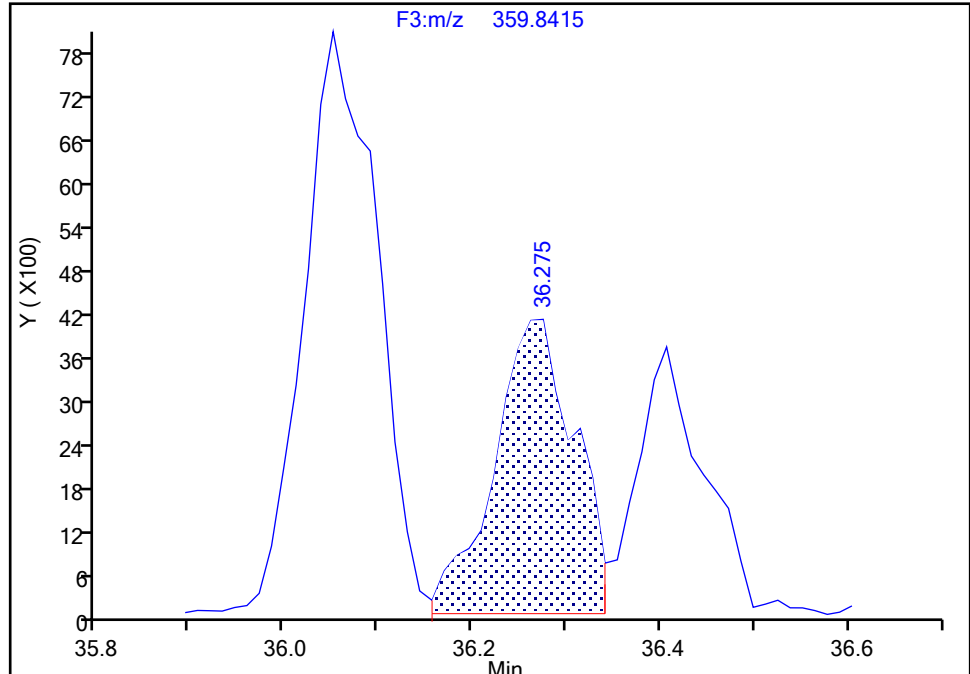
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 1

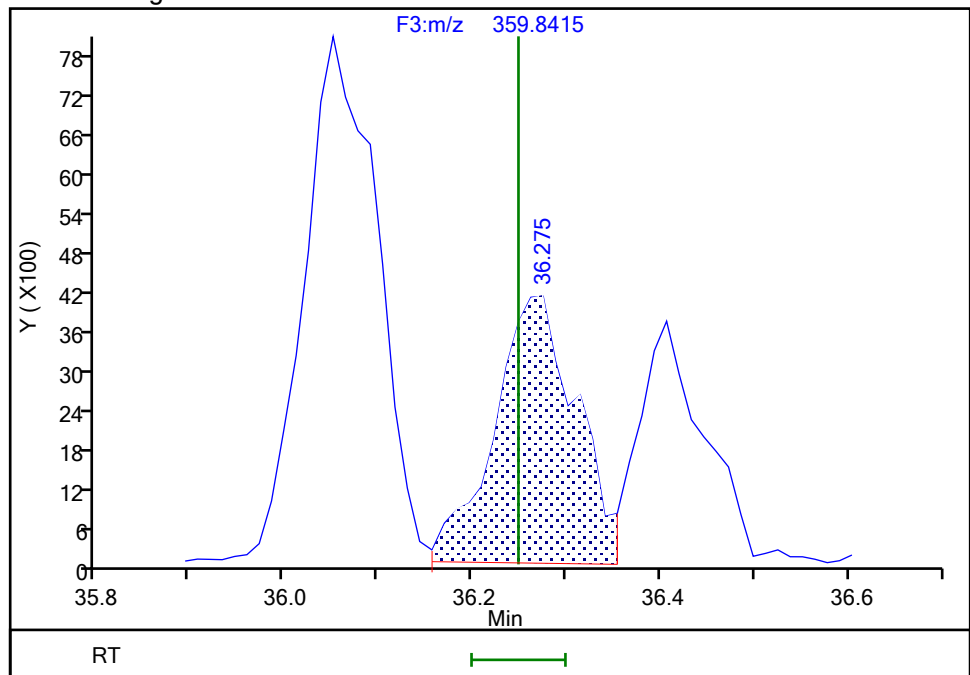
RT: 36.28
Area: 23949
Amount: 0.603994
Amount Units: pg/ul

Processing Integration Results



RT: 36.28
Area: 24575
Amount: 0.639629
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:28:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

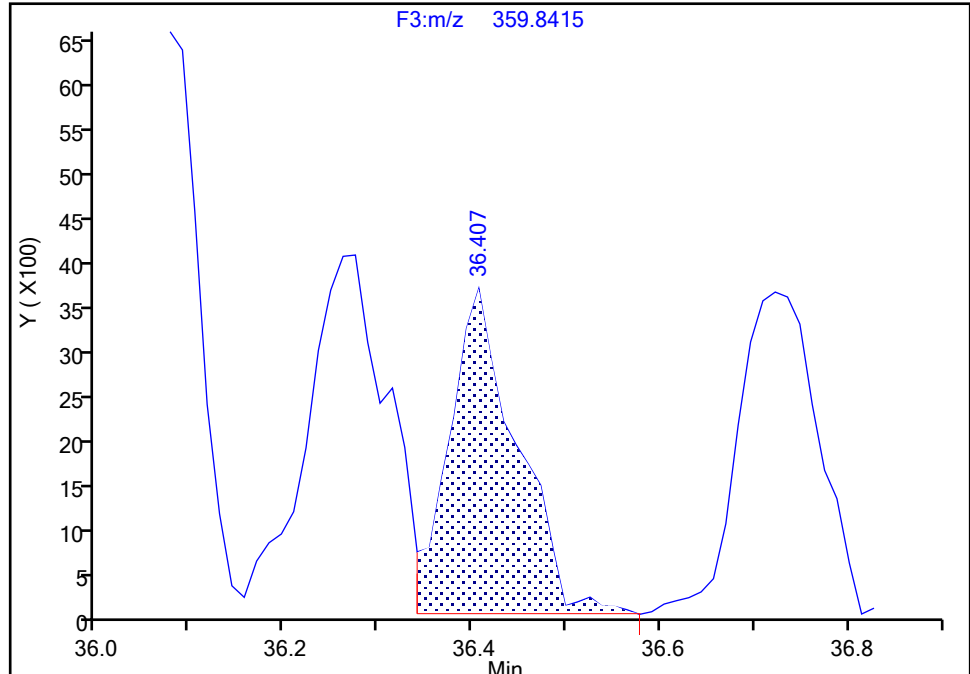
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 1

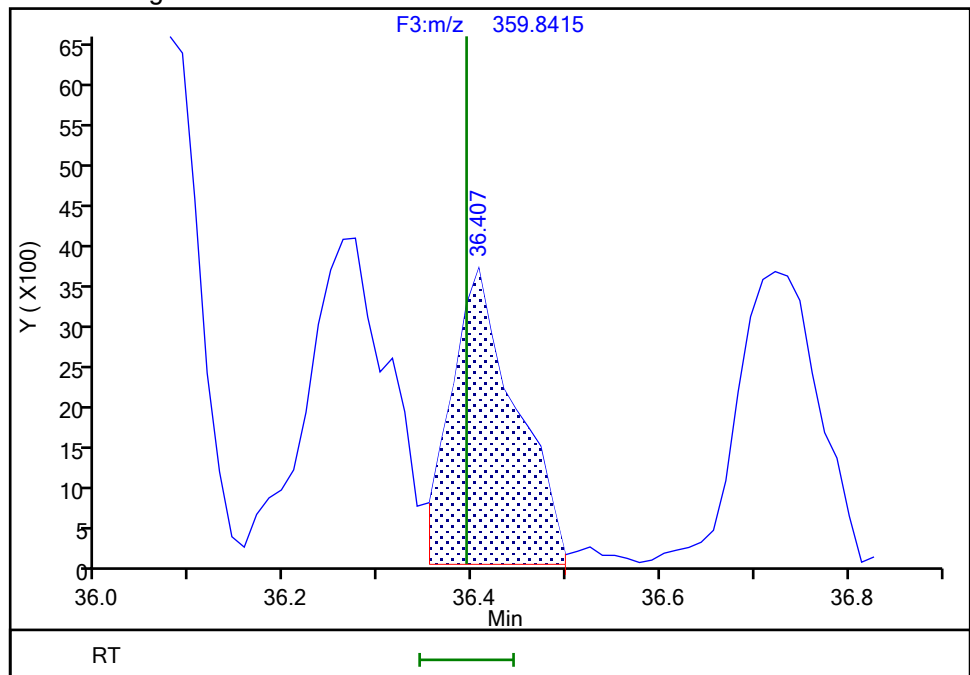
RT: 36.41
Area: 18363
Amount: 0.485443
Amount Units: pg/ul

Processing Integration Results



RT: 36.41
Area: 17385
Amount: 0.473115
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:28:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

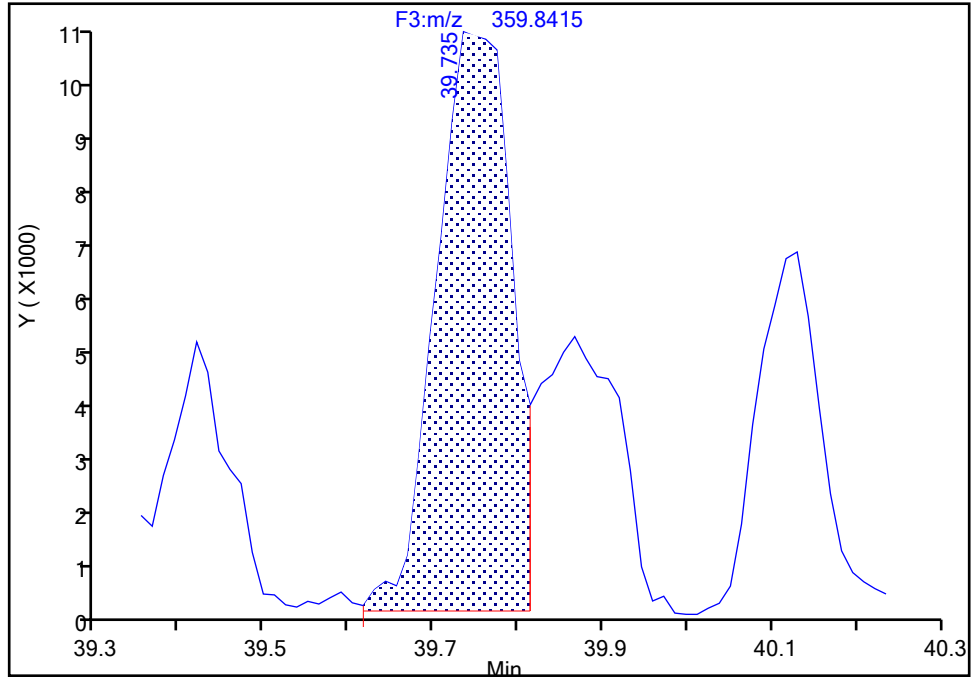
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

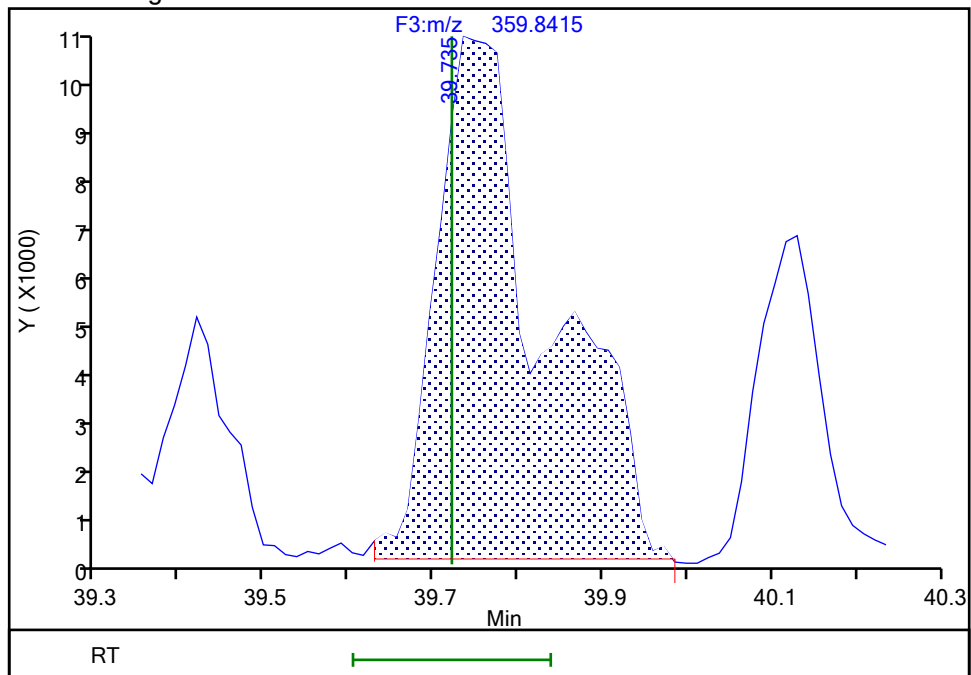
RT: 39.73
Area: 61420
Amount: 1.440948
Amount Units: pg/ul

Processing Integration Results



RT: 39.73
Area: 91627
Amount: 1.965277
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

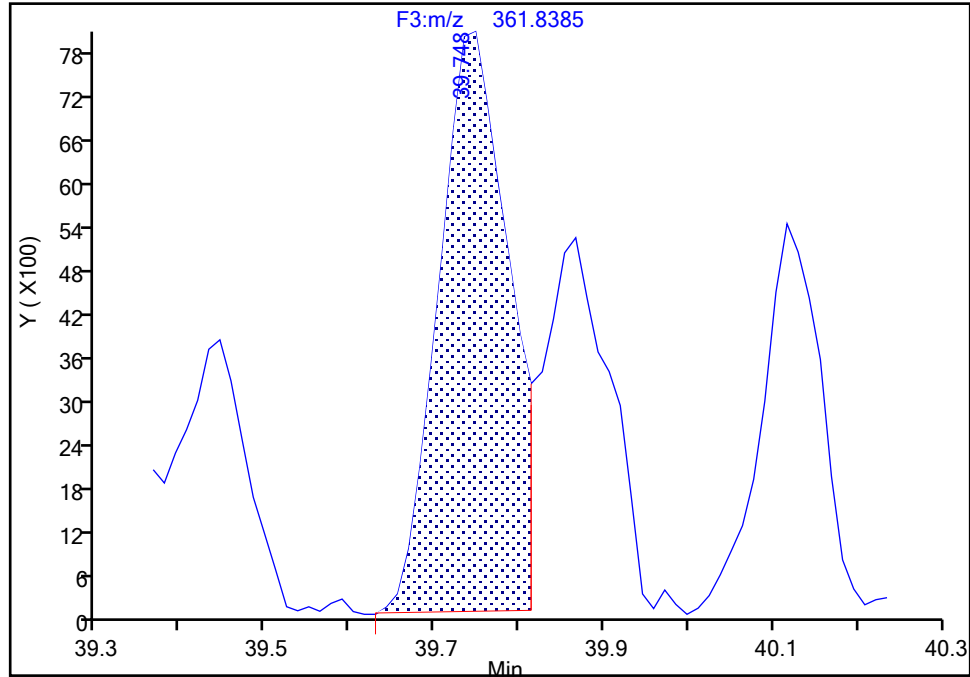
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

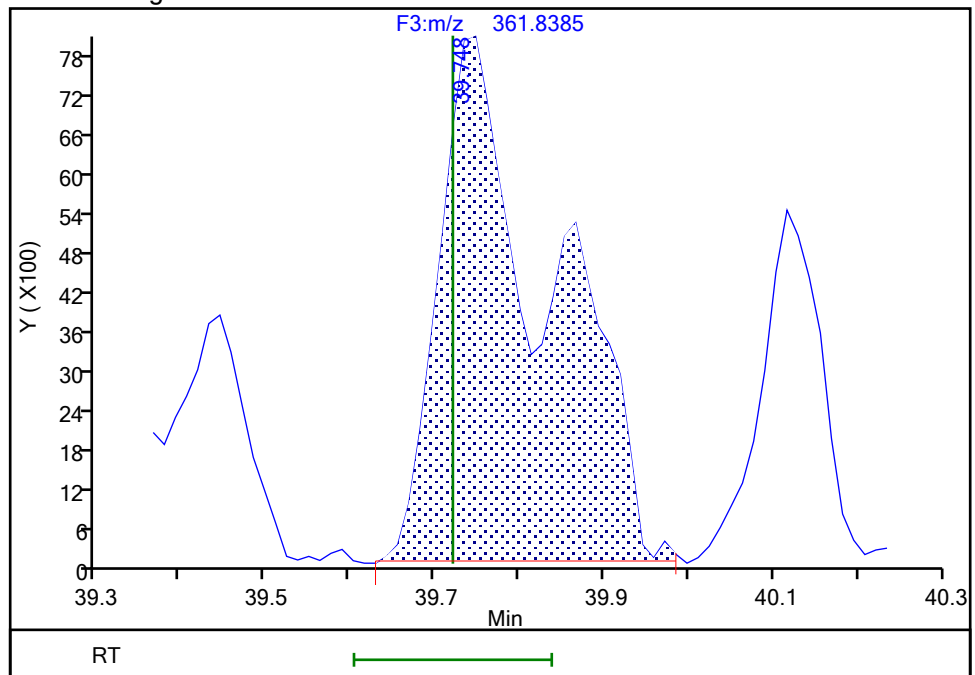
RT: 39.75
Area: 45519
Amount: 1.440948
Amount Units: pg/ul

Processing Integration Results



RT: 39.75
Area: 73127
Amount: 1.965277
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1800 of 3050

BASFWC-McIntosh-009801

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

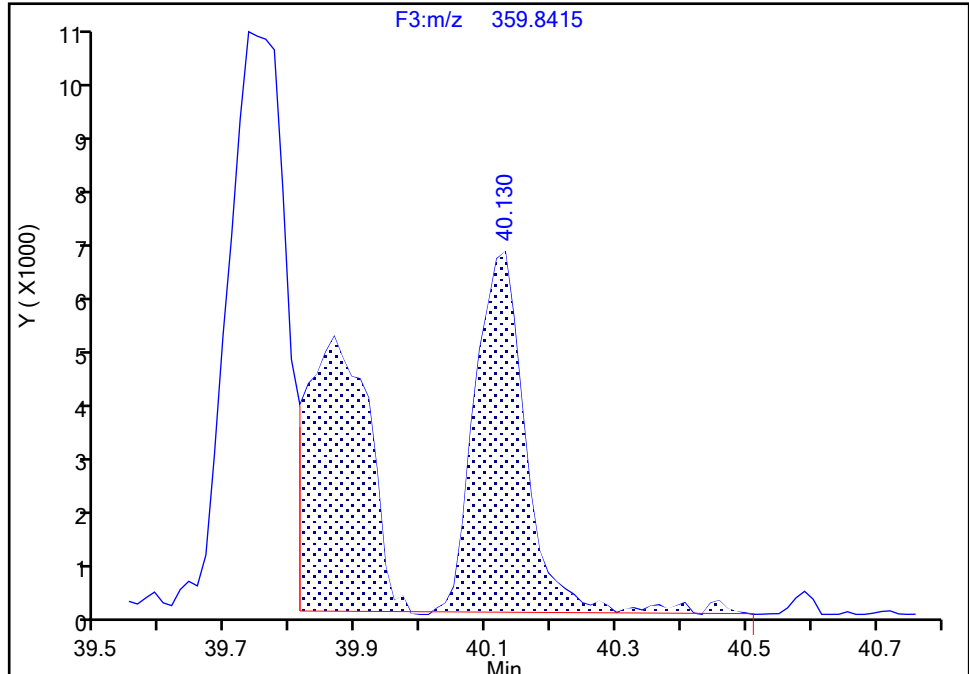
F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 1

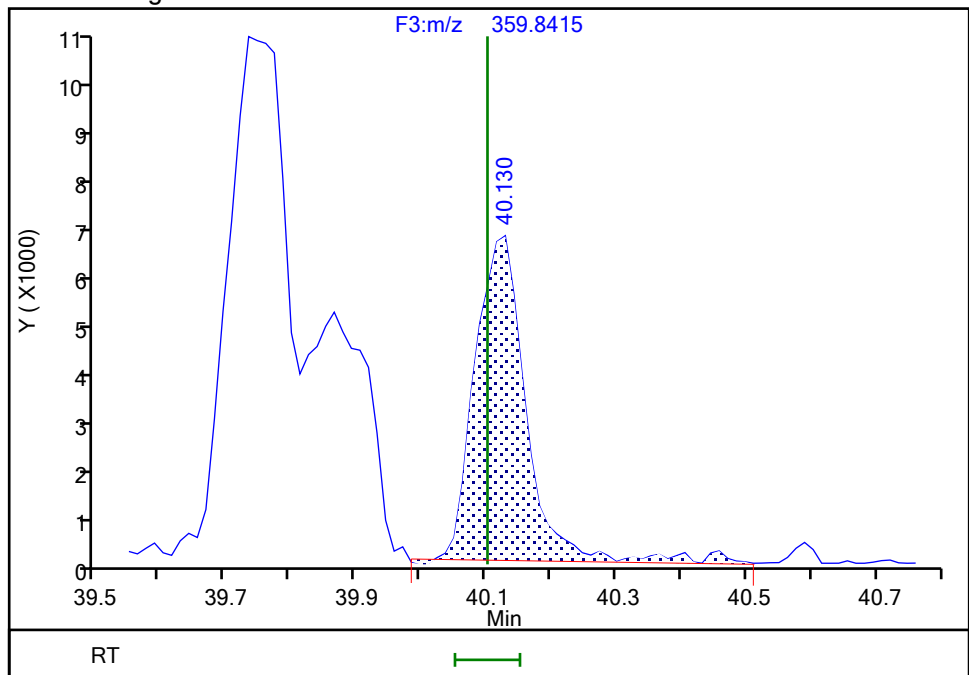
RT: 40.13
Area: 65243
Amount: 0.974334
Amount Units: pg/ul

Processing Integration Results



RT: 40.13
Area: 34022
Amount: 0.519156
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

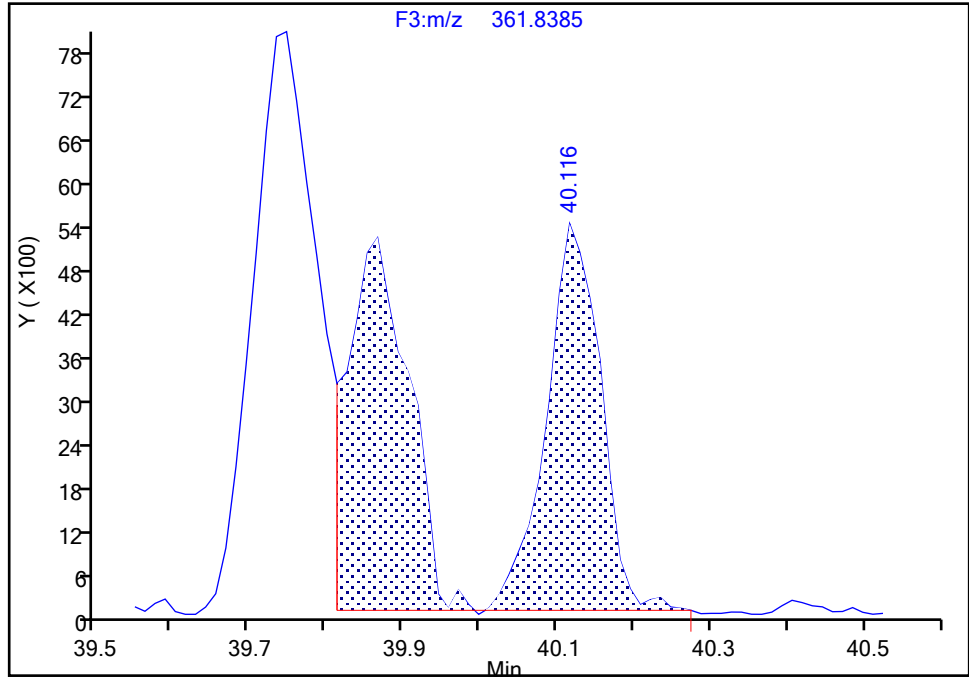
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 2

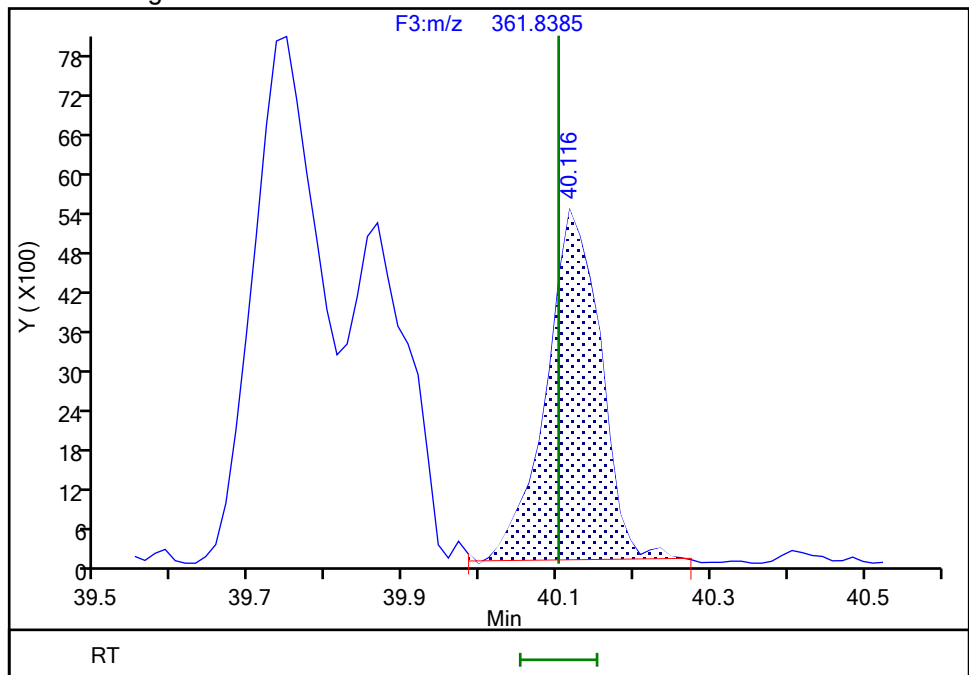
RT: 40.12
Area: 54061
Amount: 0.974334
Amount Units: pg/ul

Processing Integration Results



RT: 40.12
Area: 26269
Amount: 0.519156
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1802 of 3050

BASFWC-McIntosh-009803

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

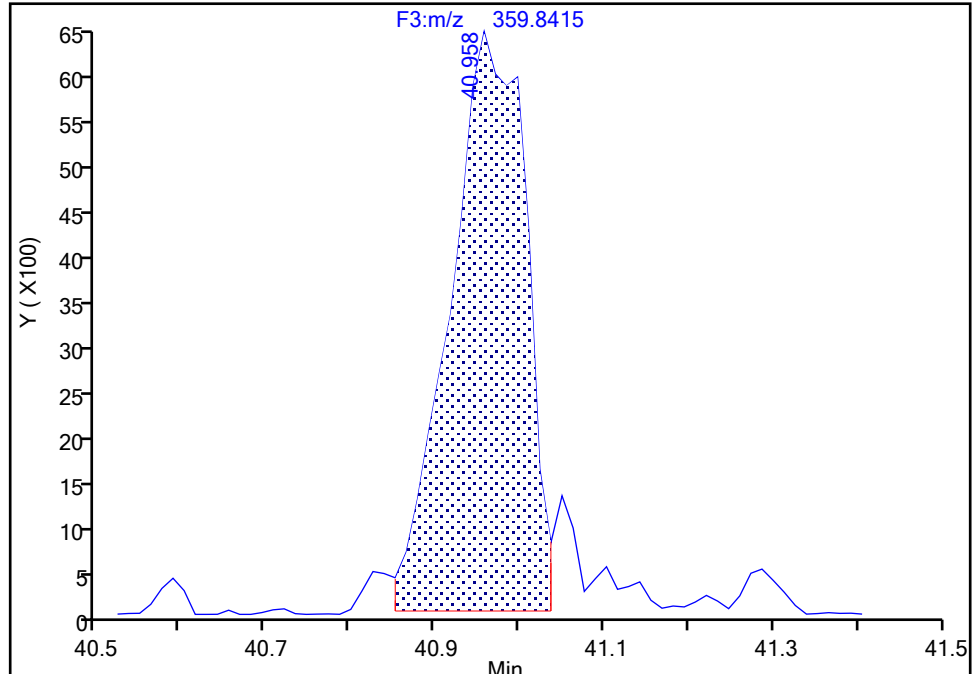
Detector F3(35.64 :49.10)

PCB-128/166, CAS: STL01816

Signal: 1

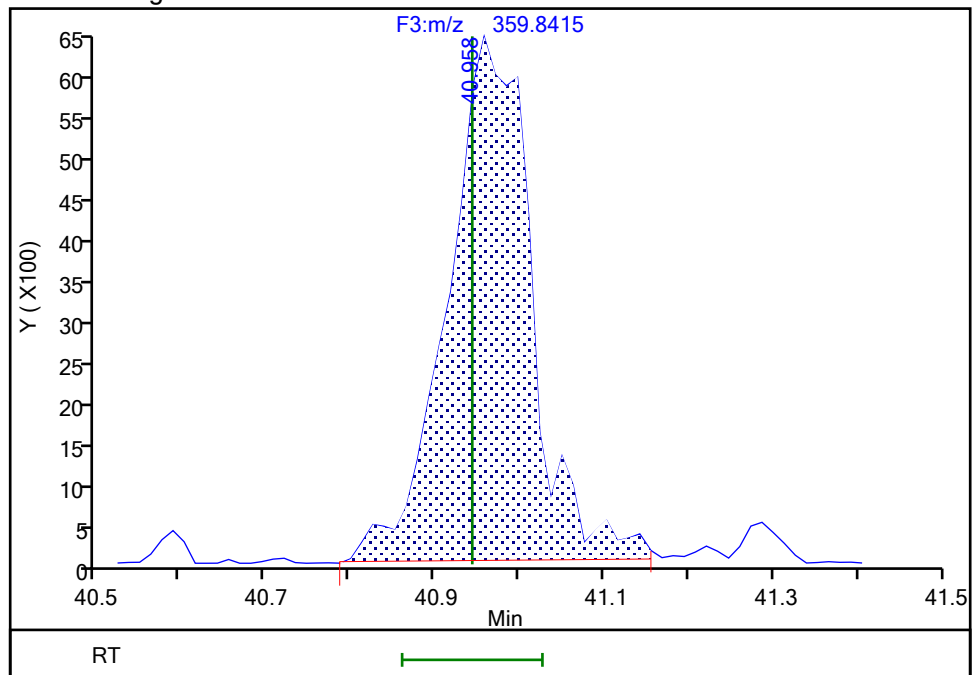
RT: 40.96
Area: 39562
Amount: 0.944576
Amount Units: pg/ul

Processing Integration Results



RT: 40.96
Area: 44274
Amount: 0.963629
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

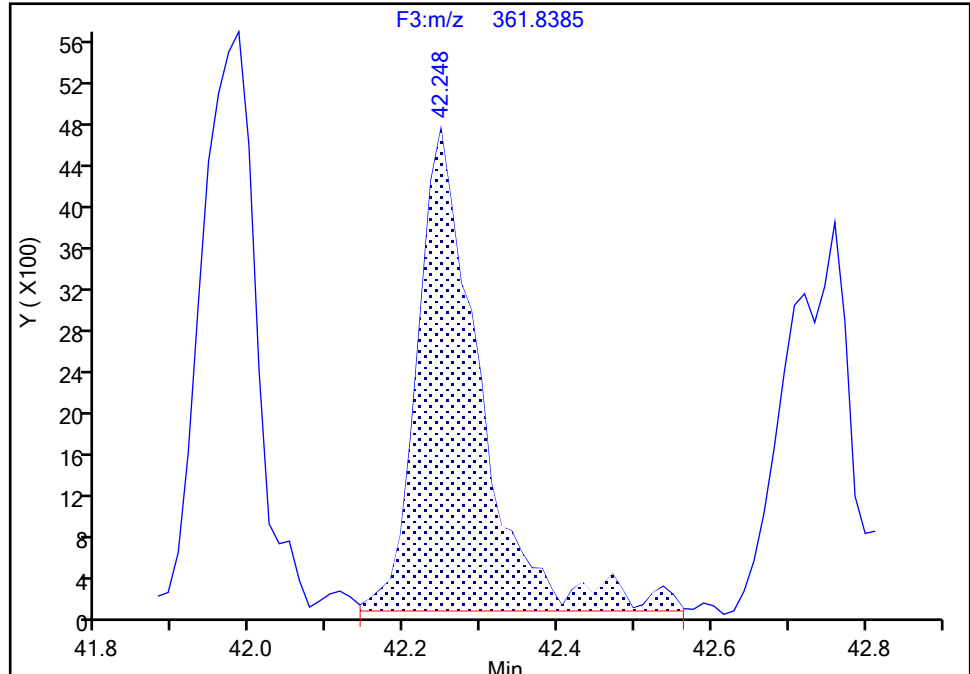
Detector F3(35.64 :49.10)

PCB-162, CAS: 39635-34-2

Signal: 2

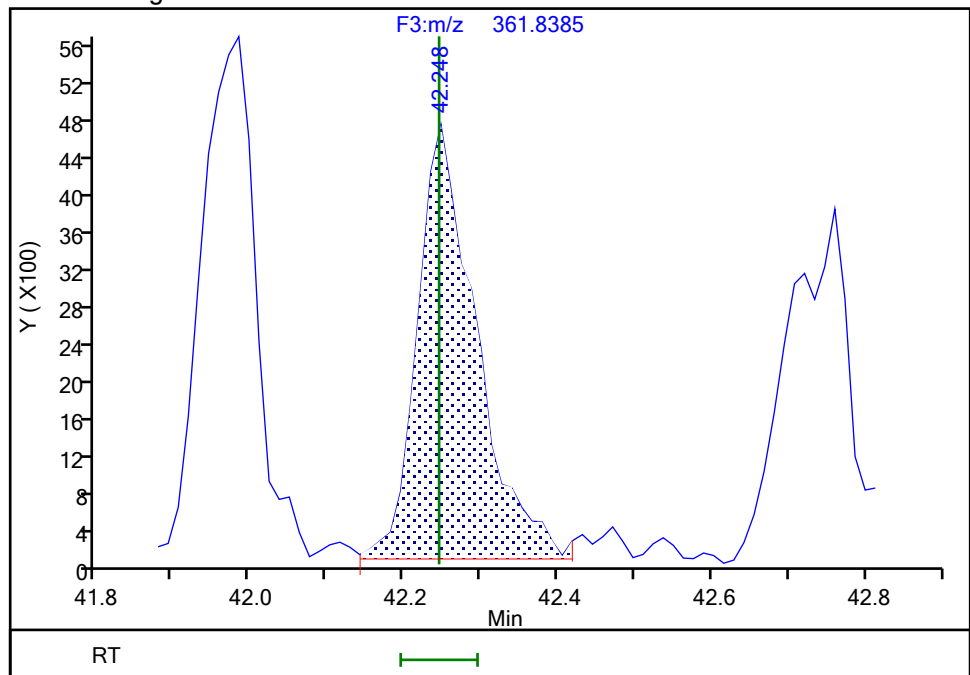
RT: 42.25
Area: 26211
Amount: 0.551813
Amount Units: pg/ul

Processing Integration Results



RT: 42.25
Area: 24701
Amount: 0.496624
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

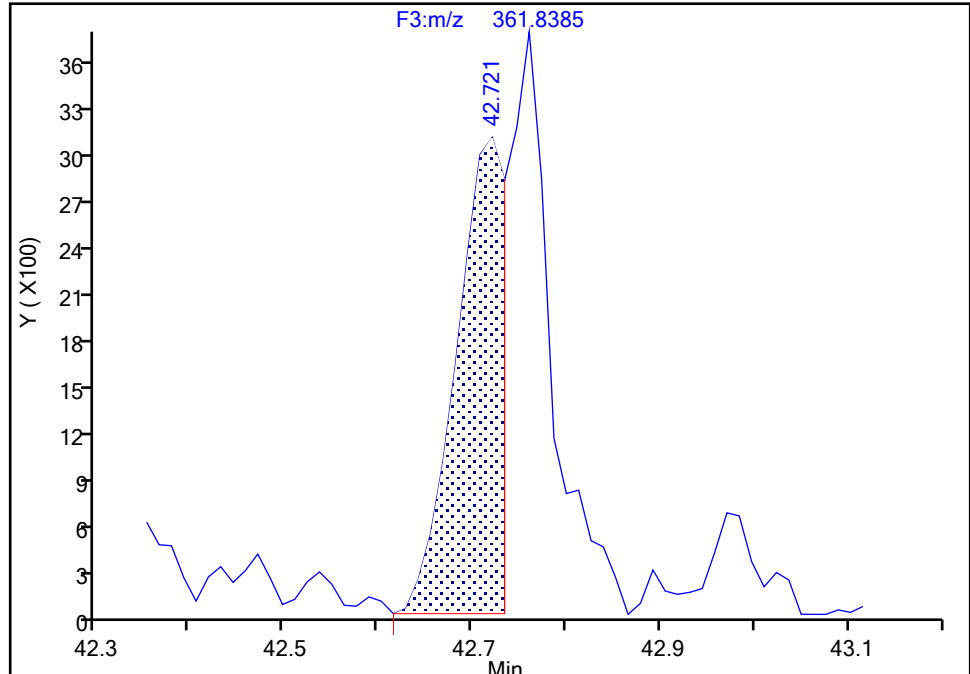
Detector F3(35.64 :49.10)

PCB-167, CAS: 52663-72-6

Signal: 2

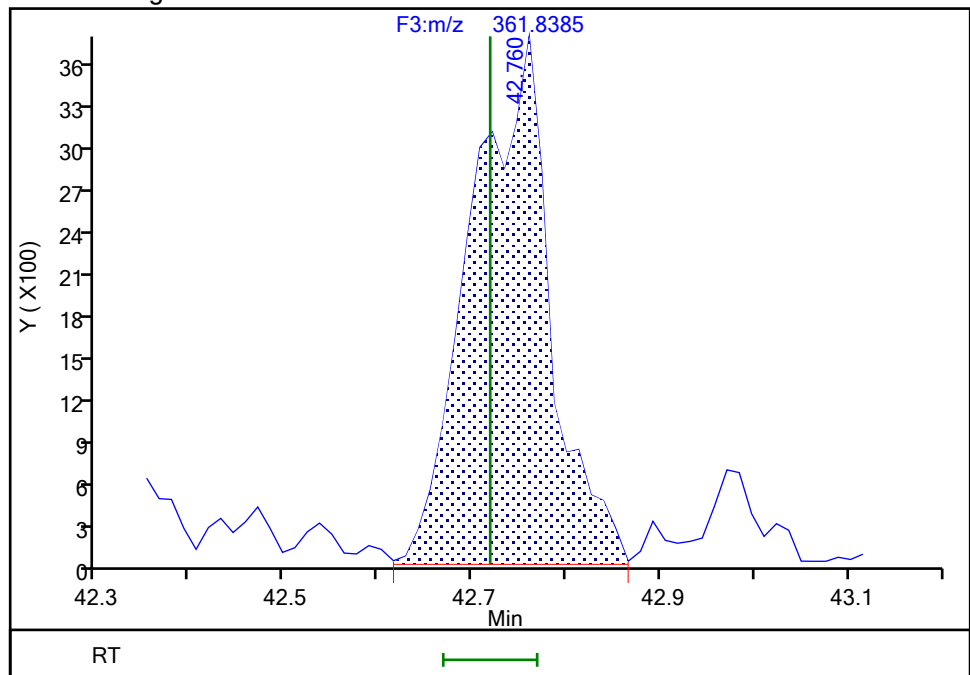
RT: 42.72
Area: 10384
Amount: 0.403076
Amount Units: pg/ul

Processing Integration Results



RT: 42.76
Area: 22483
Amount: 0.504170
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

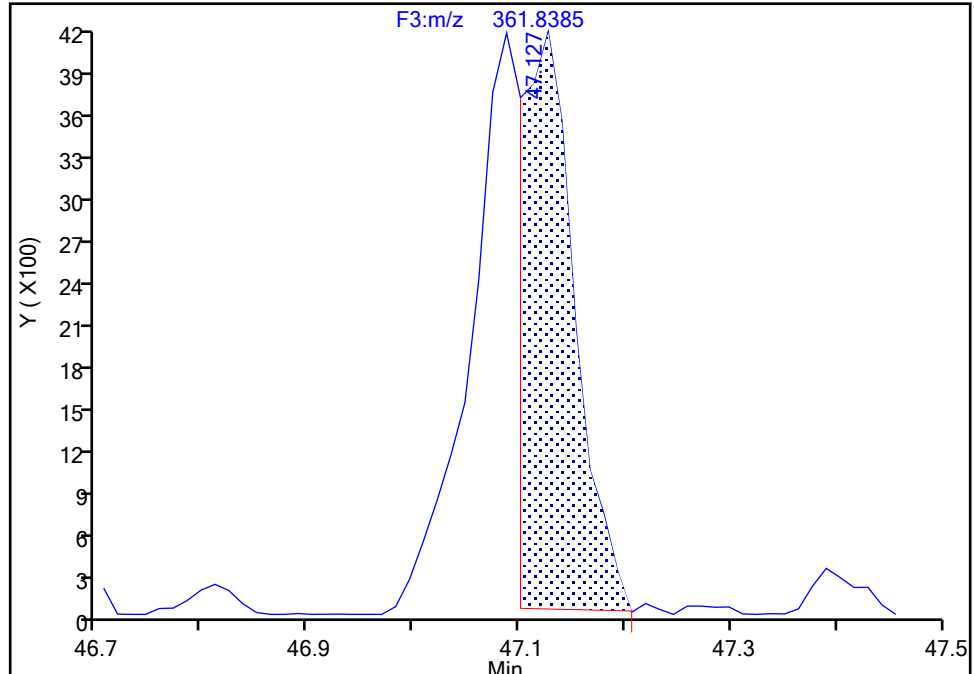
F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 2

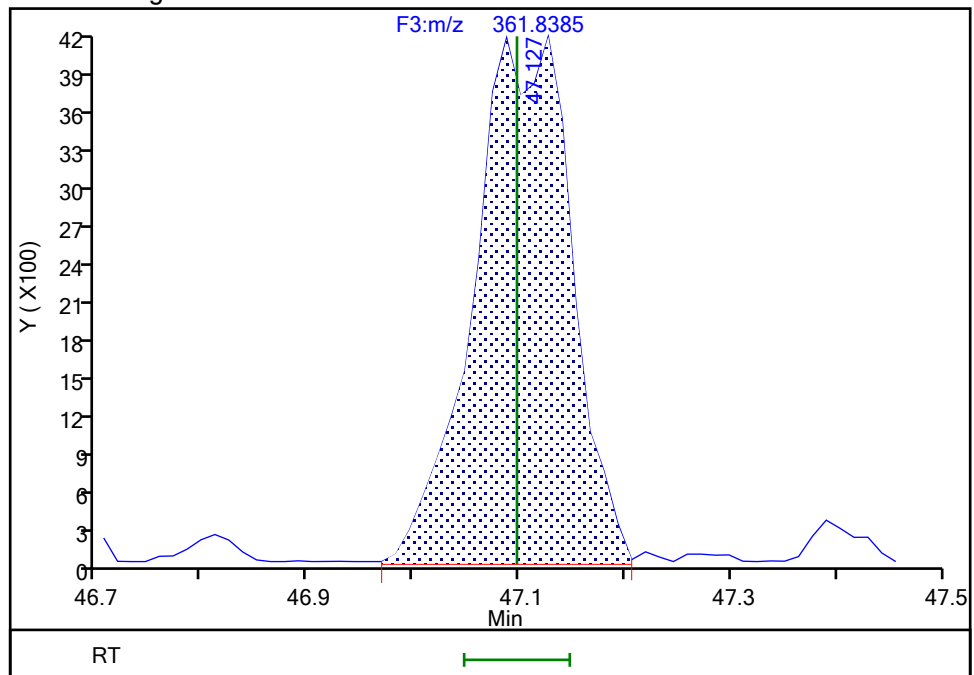
RT: 47.13
Area: 13314
Amount: 0.387209
Amount Units: pg/ul

Processing Integration Results



RT: 47.13
Area: 26435
Amount: 0.514281
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

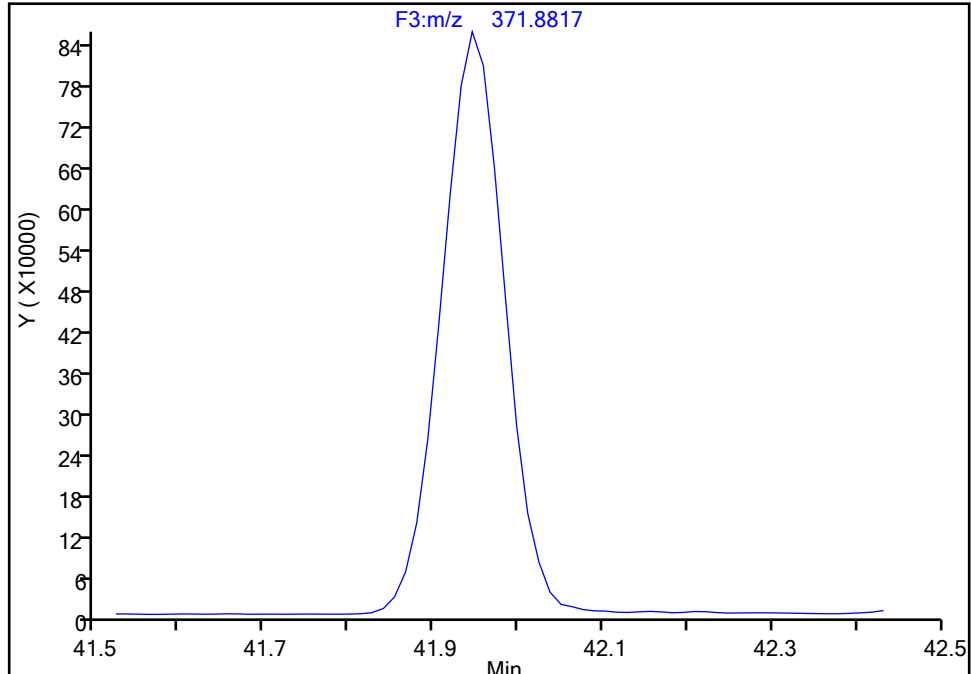
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-159L, CAS: STL02761

Signal: 1

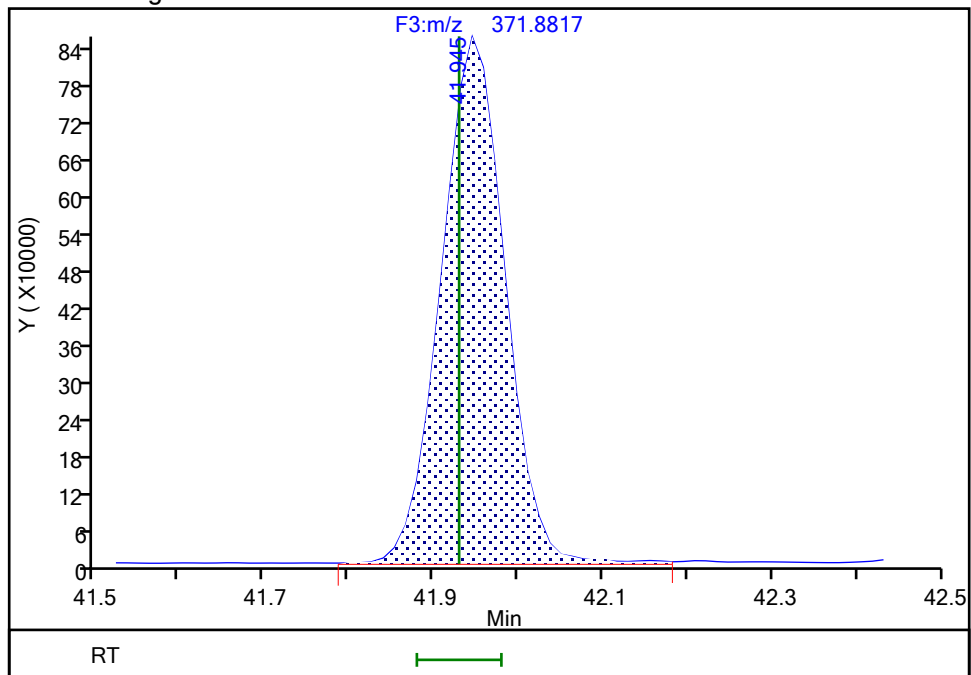
Not Detected
Expected RT: 41.93

Processing Integration Results



RT: 41.95
Area: 4449727
Amount: 95.479320
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:25:36 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

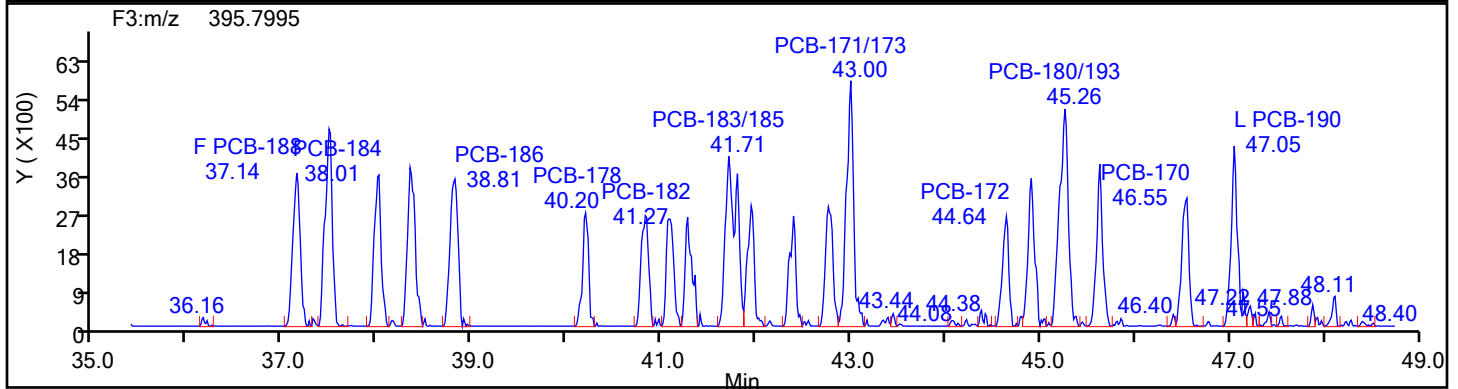
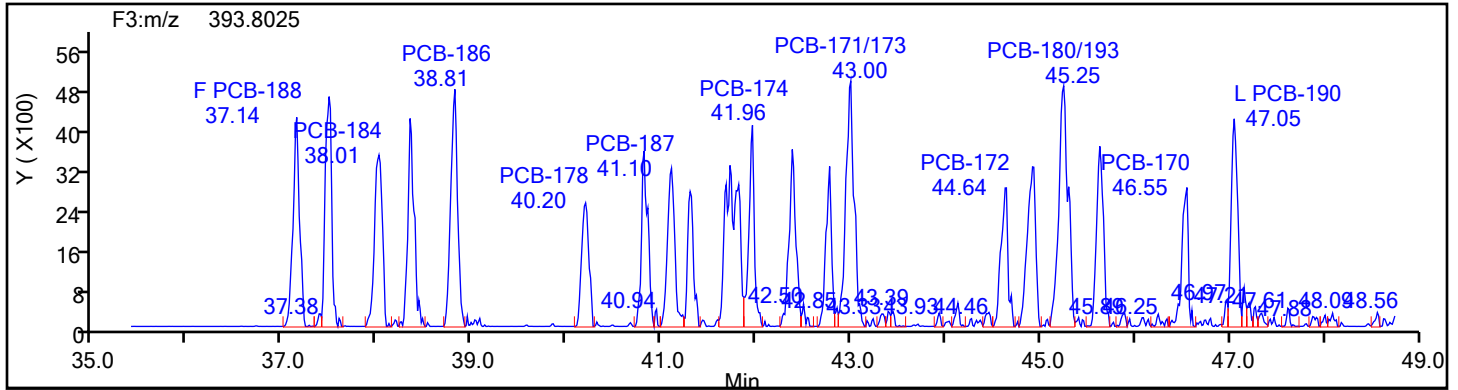
Worklist#: 87130

Sample Line#: 1

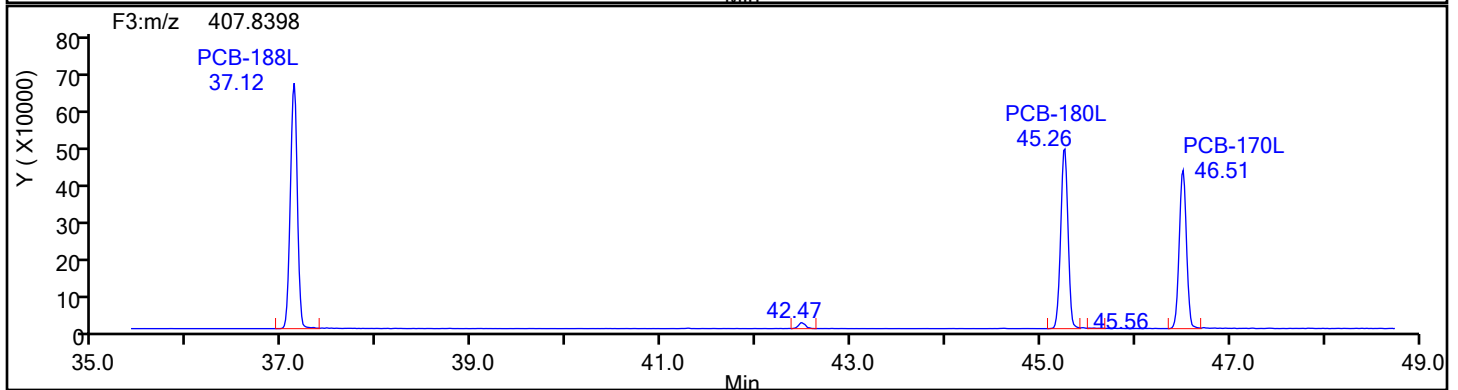
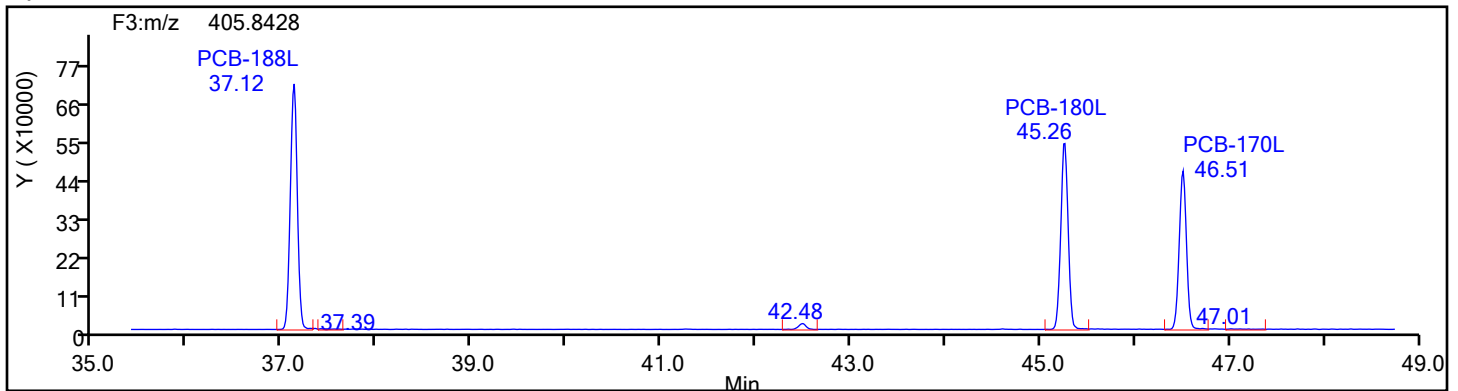
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

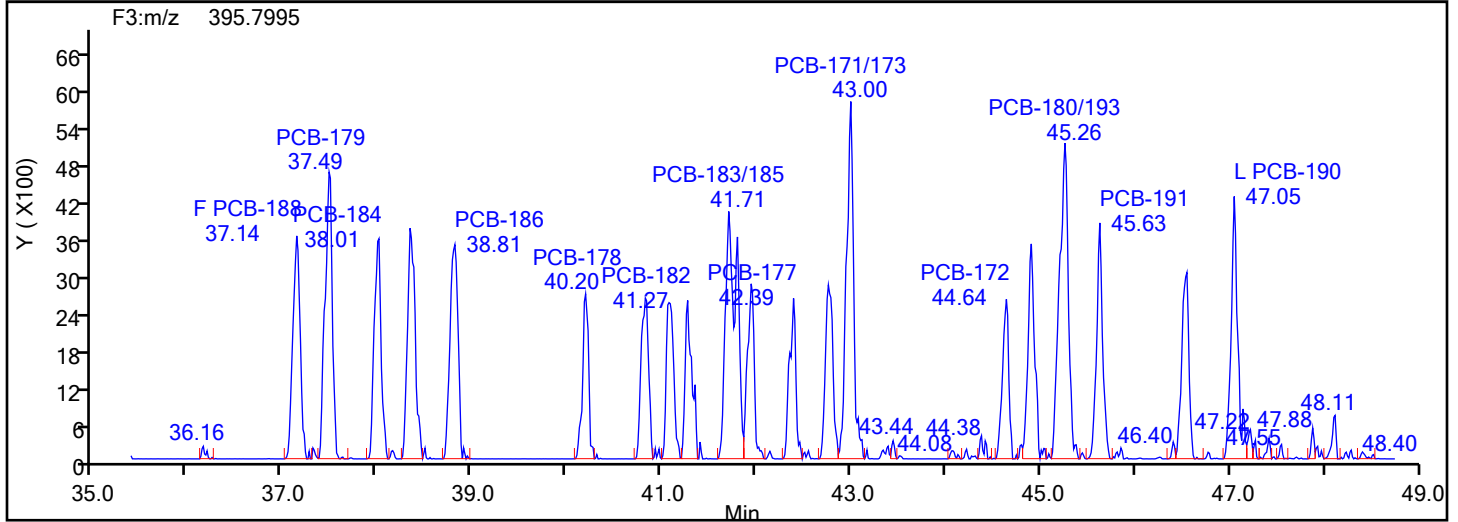
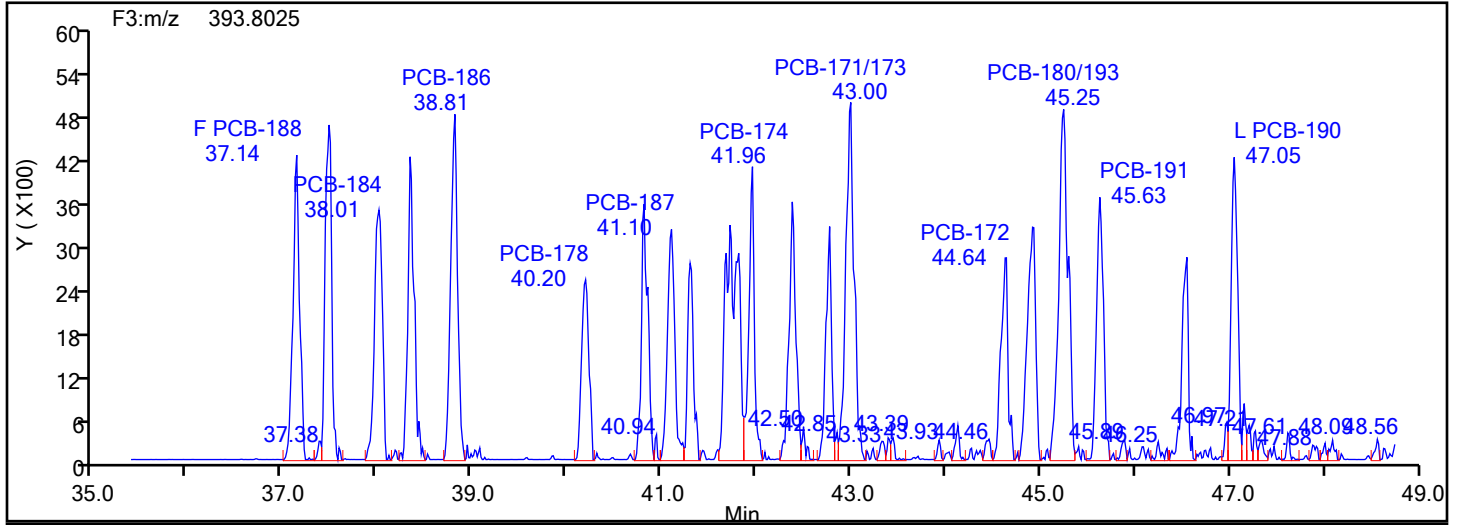
Worklist#: 87130

Sample Line#: 1

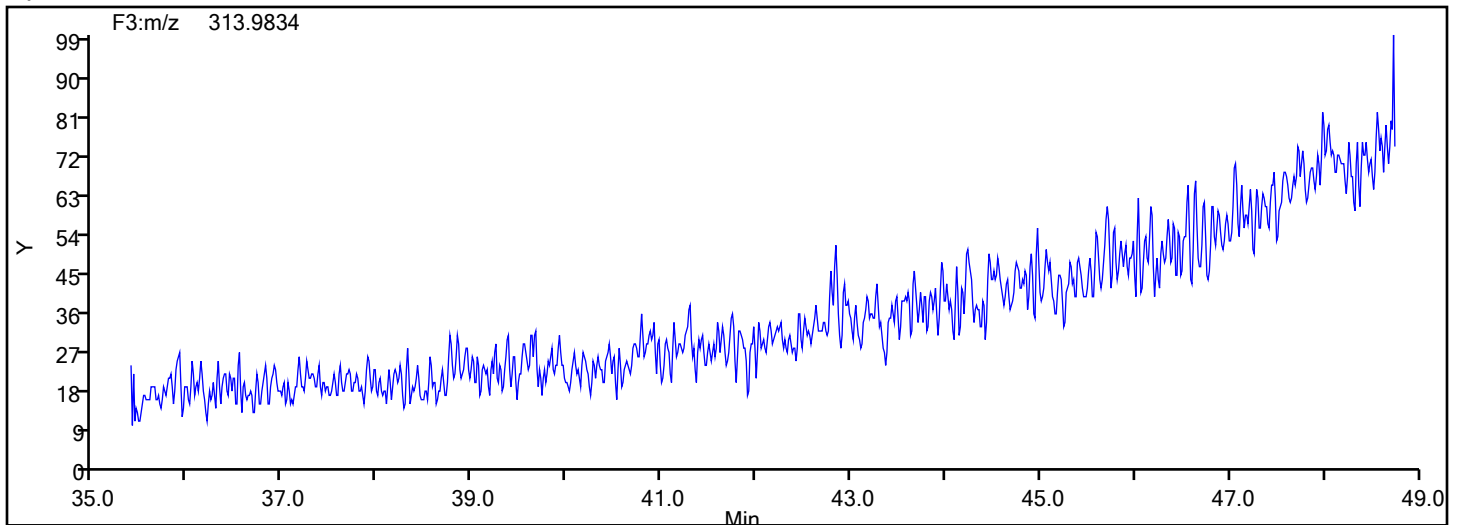
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

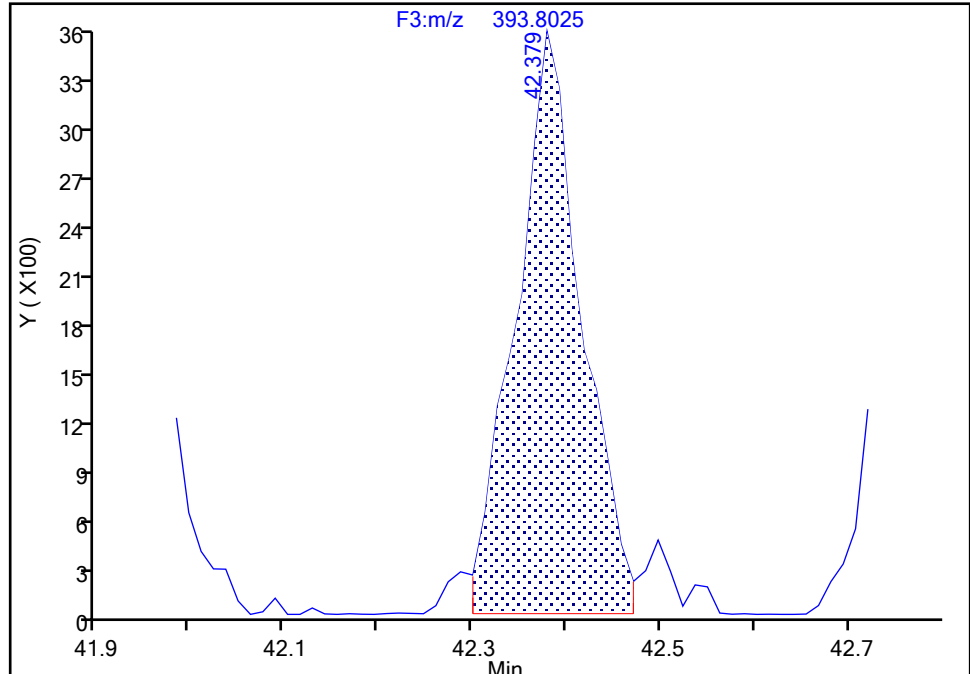
Detector F3(35.64 :49.10)

PCB-177, CAS: 52663-70-4

Signal: 1

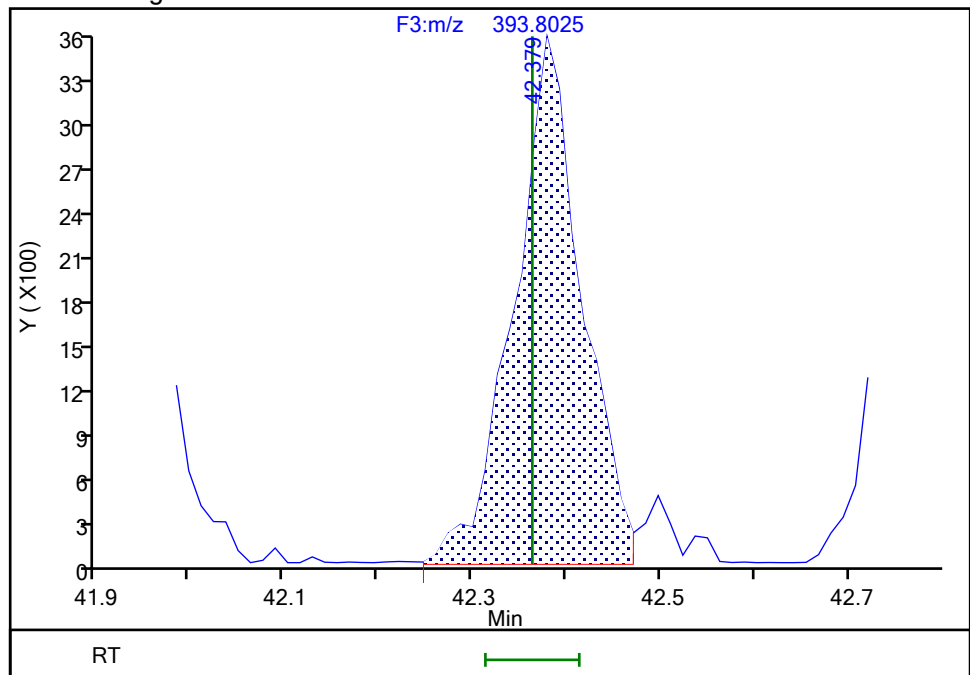
RT: 42.38
Area: 17239
Amount: 0.509180
Amount Units: pg/ul

Processing Integration Results



RT: 42.38
Area: 17793
Amount: 0.515118
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

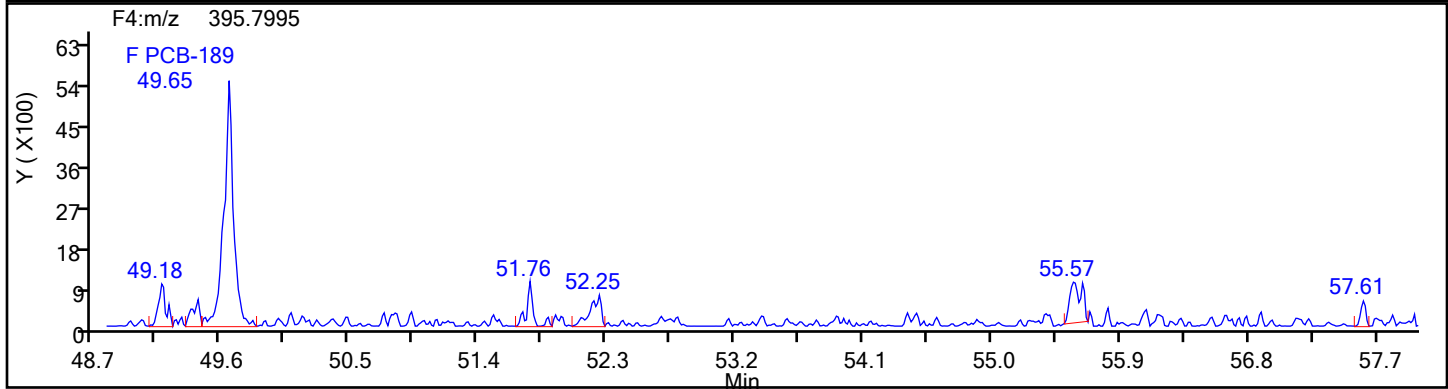
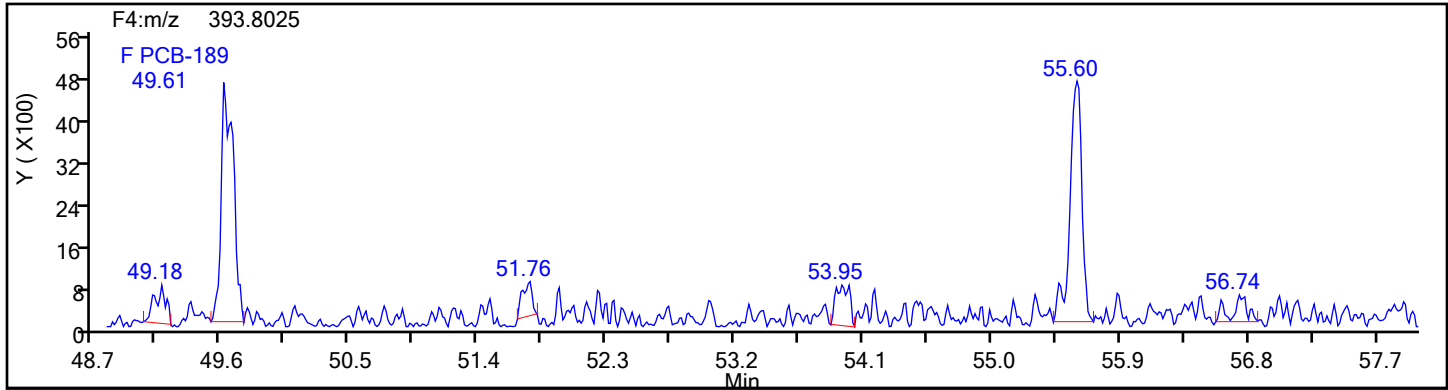
Worklist#: 87130

Sample Line#: 1

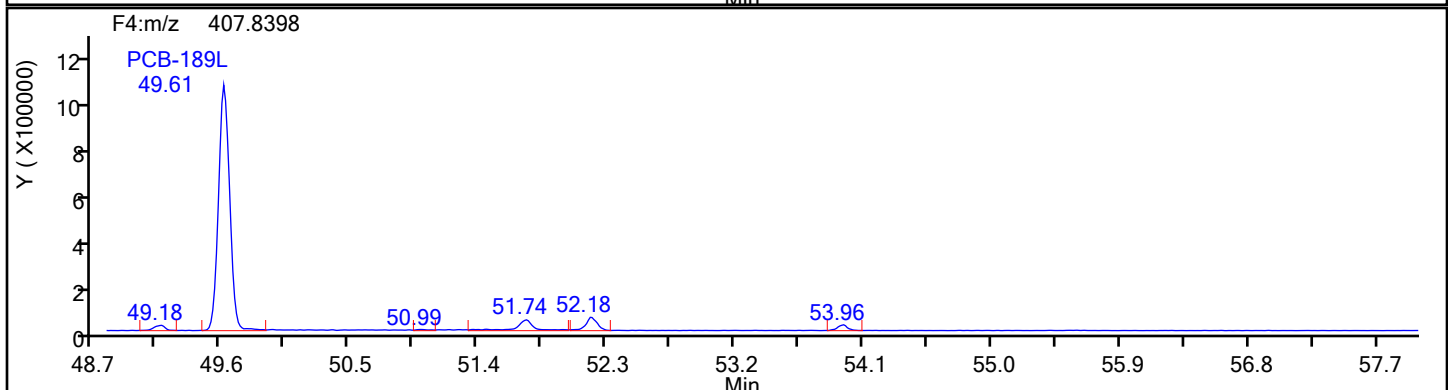
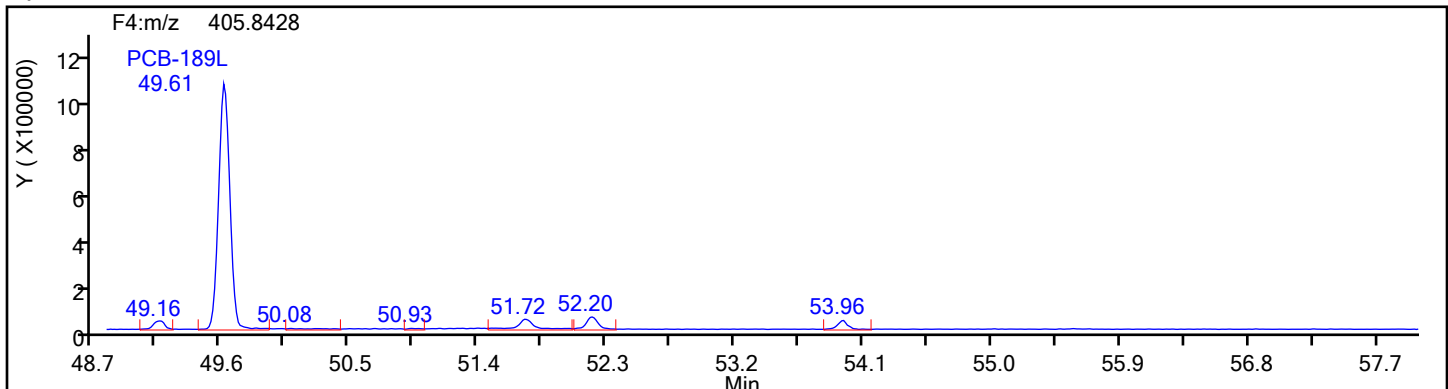
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

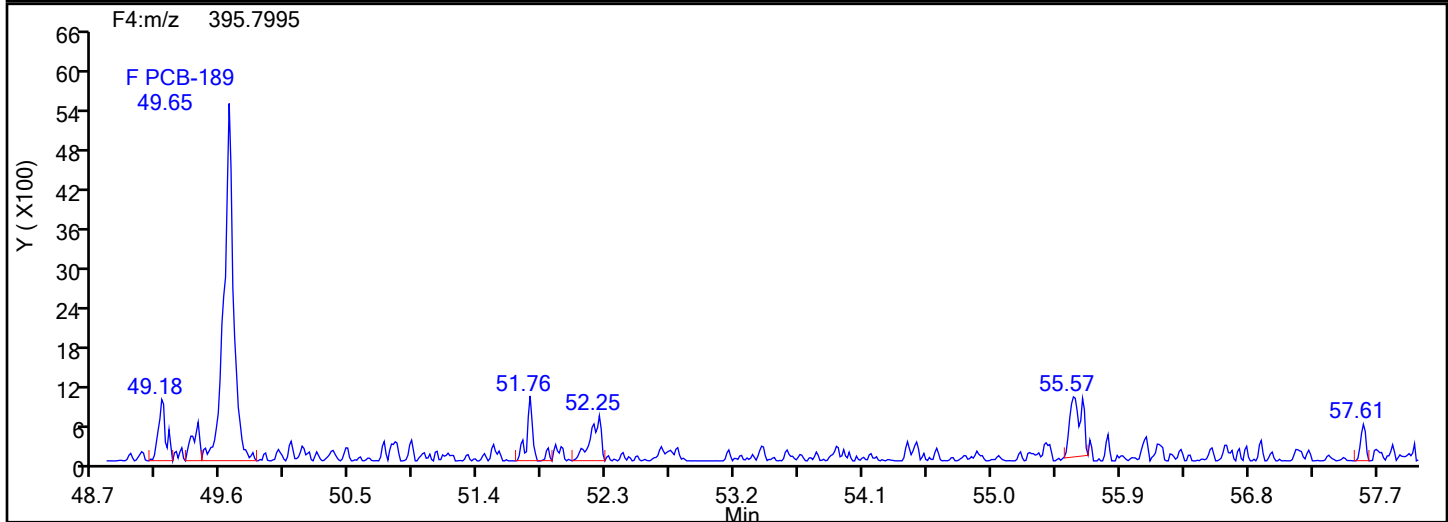
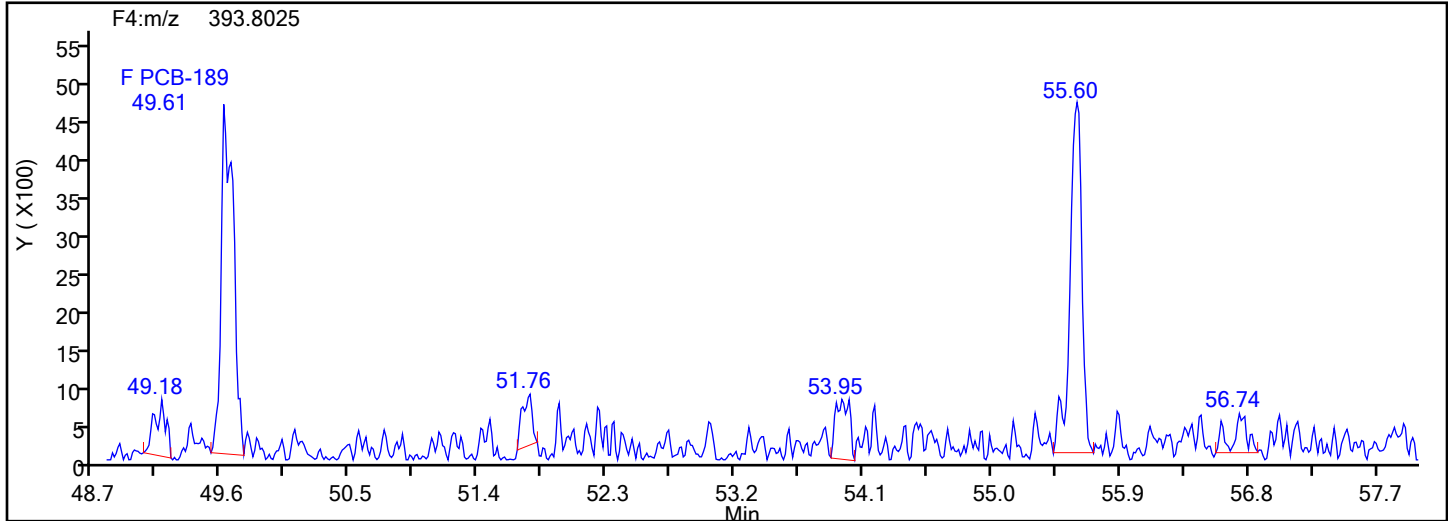
Worklist#: 87130

Sample Line#: 1

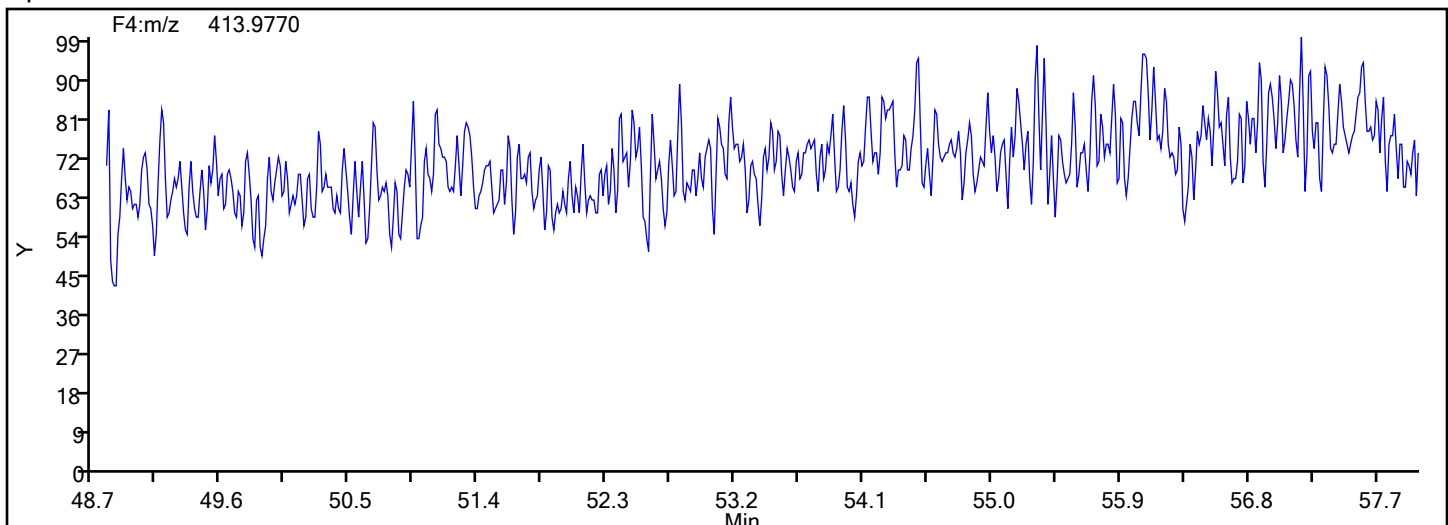
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

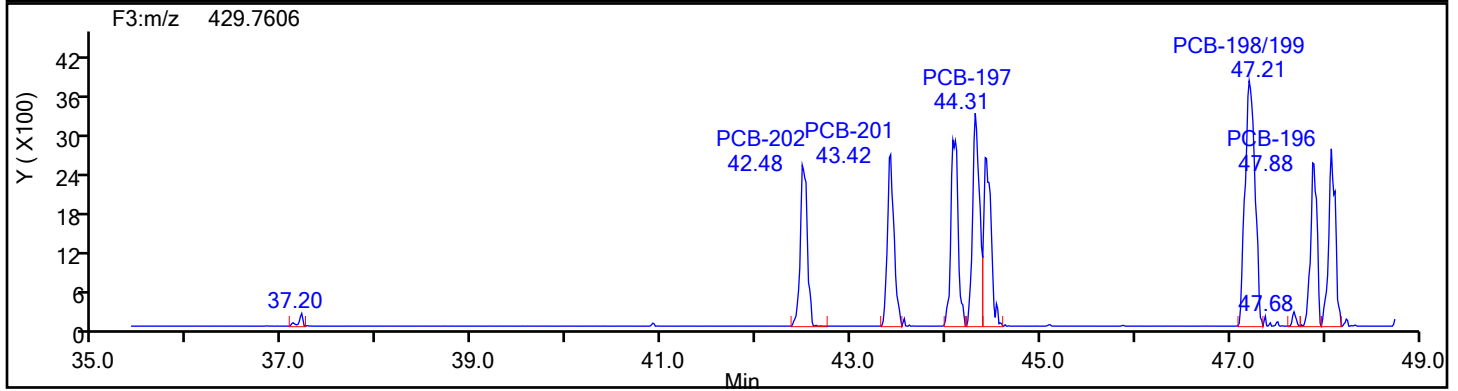
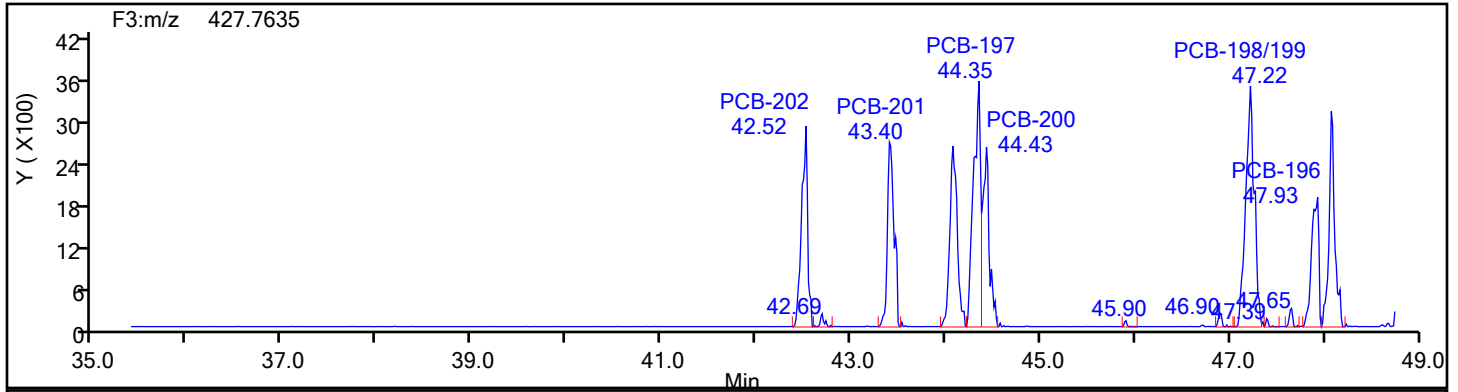
Worklist#: 87130

Sample Line#: 1

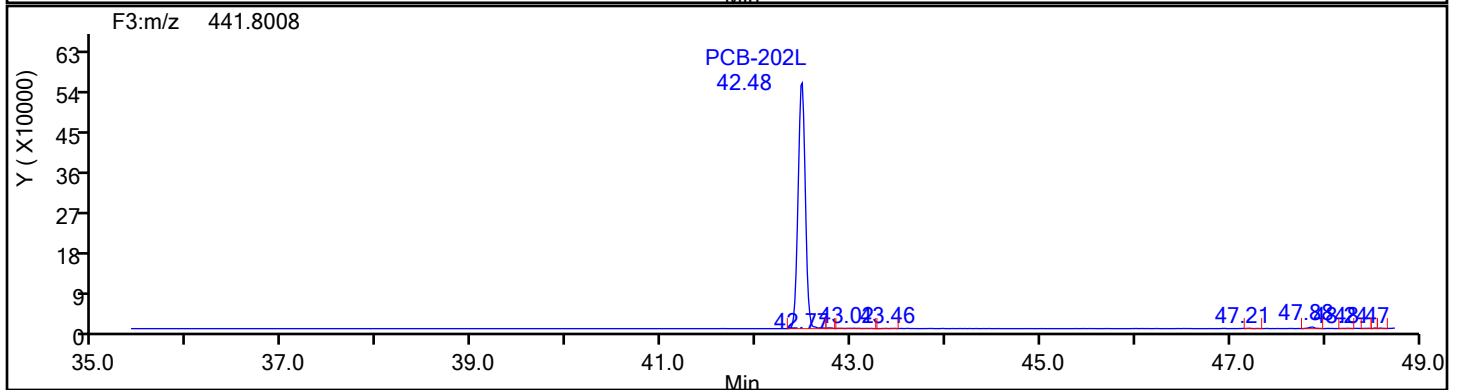
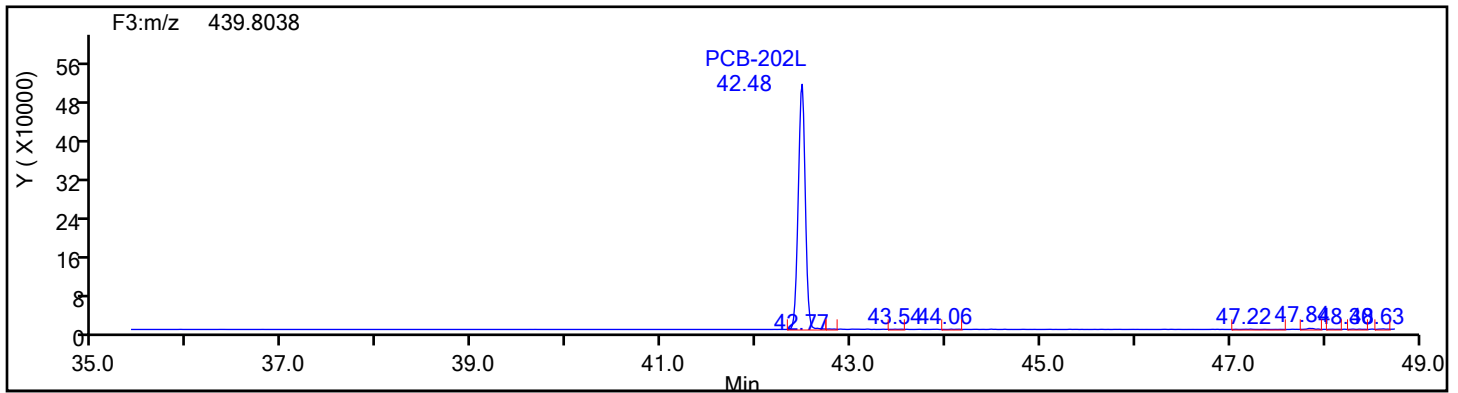
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

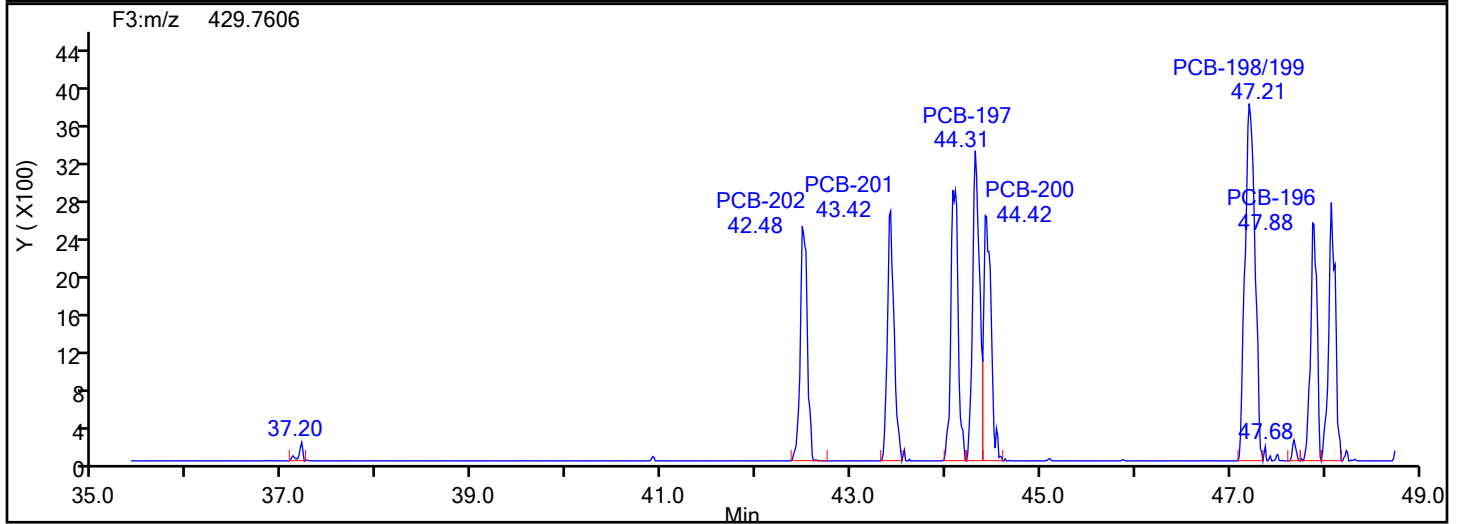
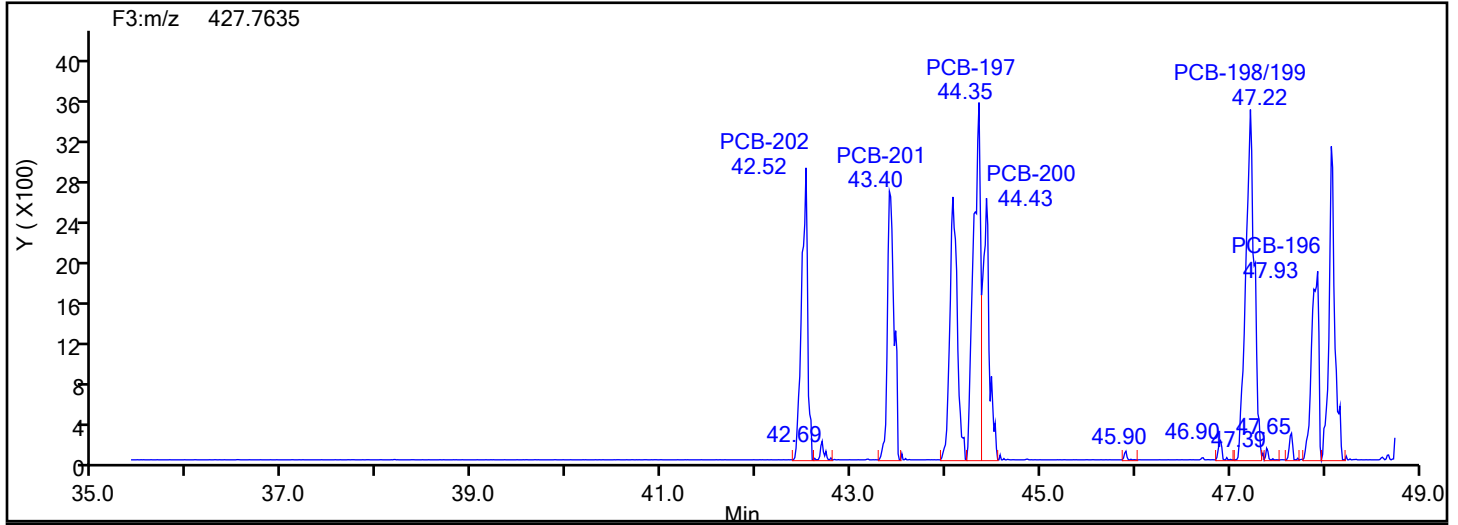
Worklist#: 87130

Sample Line#: 1

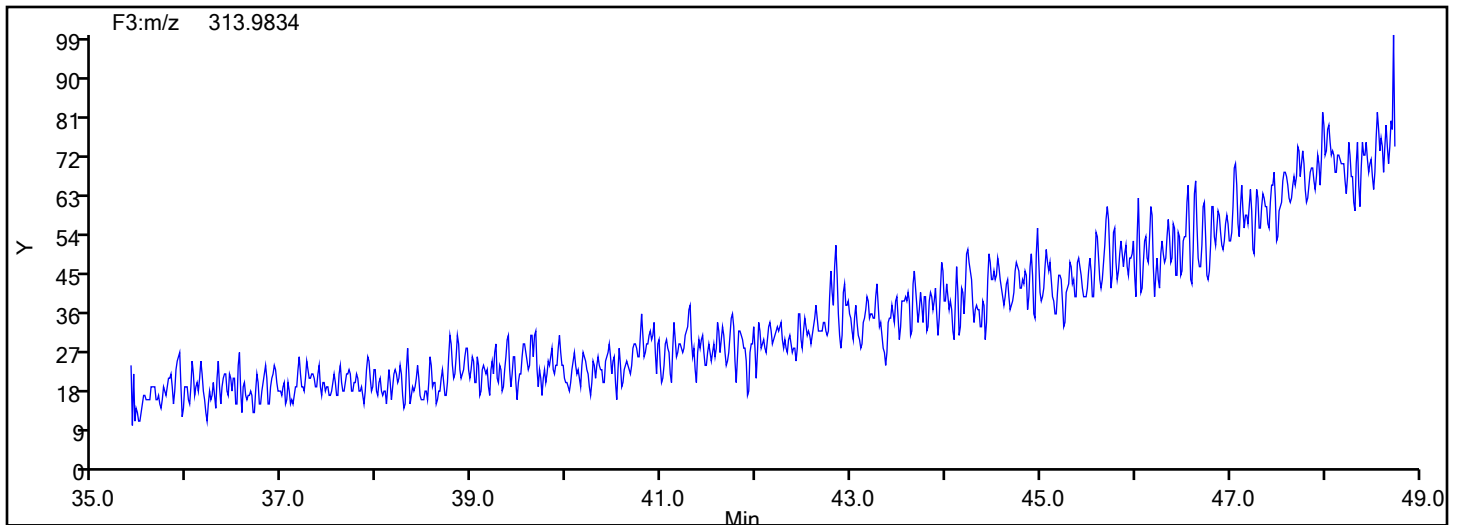
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

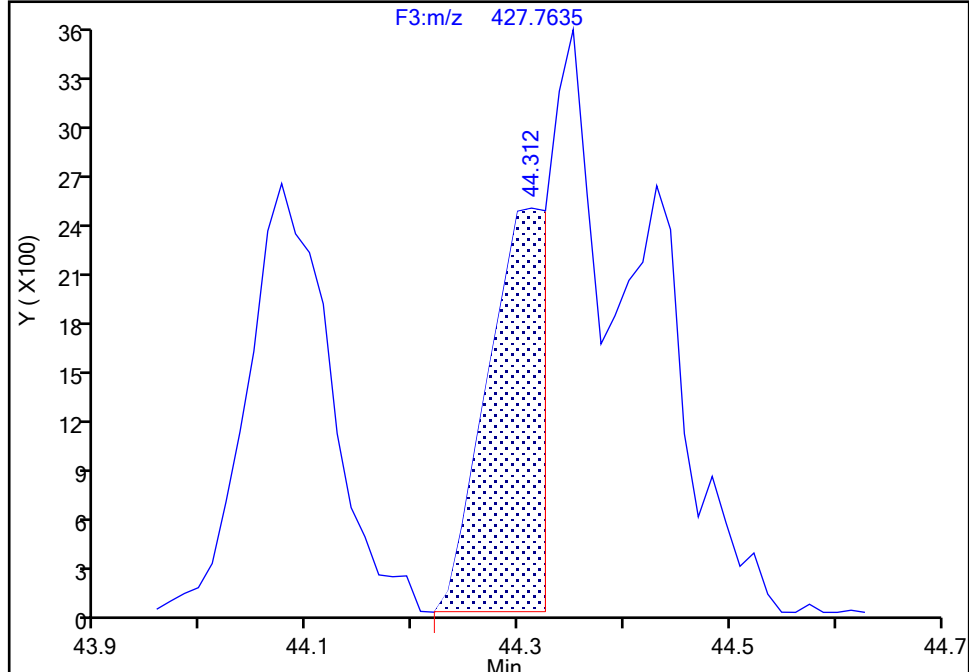
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-197, CAS: 33091-17-7

Signal: 1

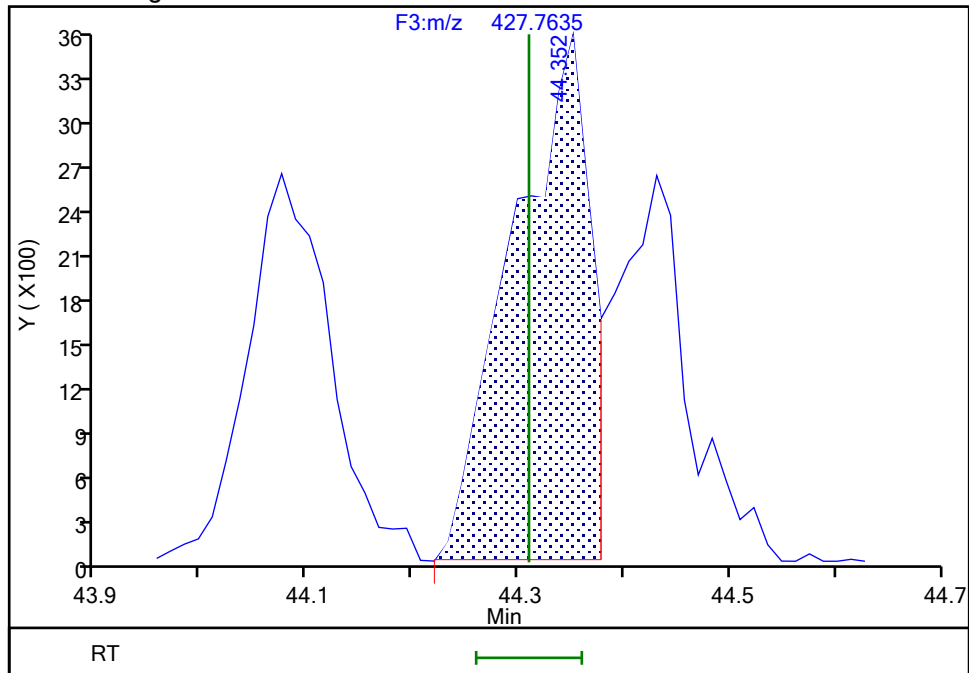
RT: 44.31
Area: 8828
Amount: 0.448021
Amount Units: pg/ul

Processing Integration Results



RT: 44.35
Area: 17650
Amount: 0.536283
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:04:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

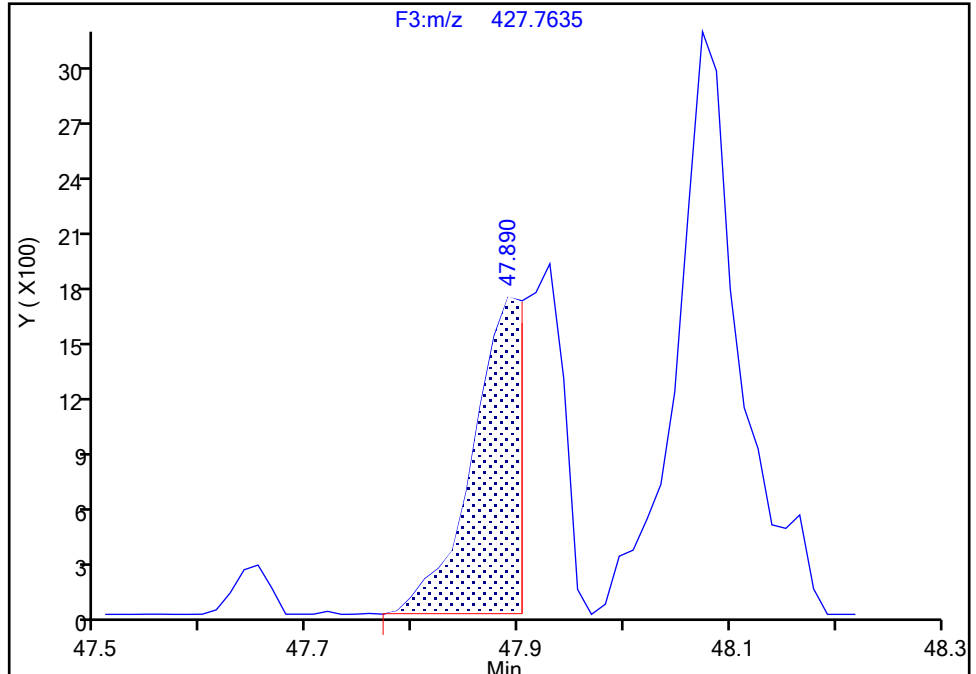
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-196, CAS: 42740-50-1

Signal: 1

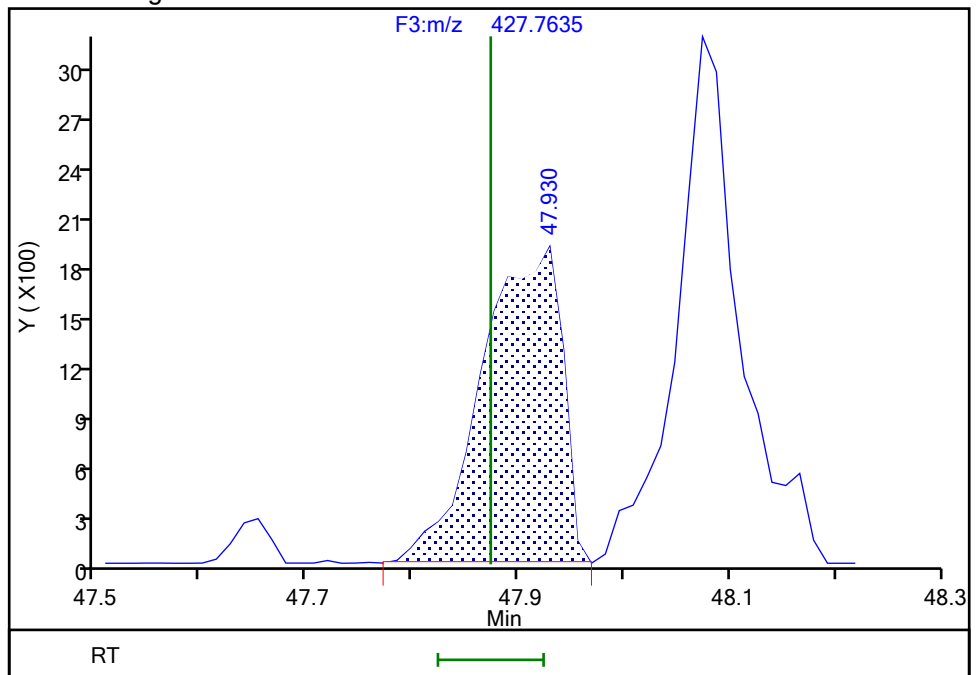
RT: 47.89
Area: 5223
Amount: 0.409421
Amount Units: pg/ul

Processing Integration Results



RT: 47.93
Area: 9747
Amount: 0.496046
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

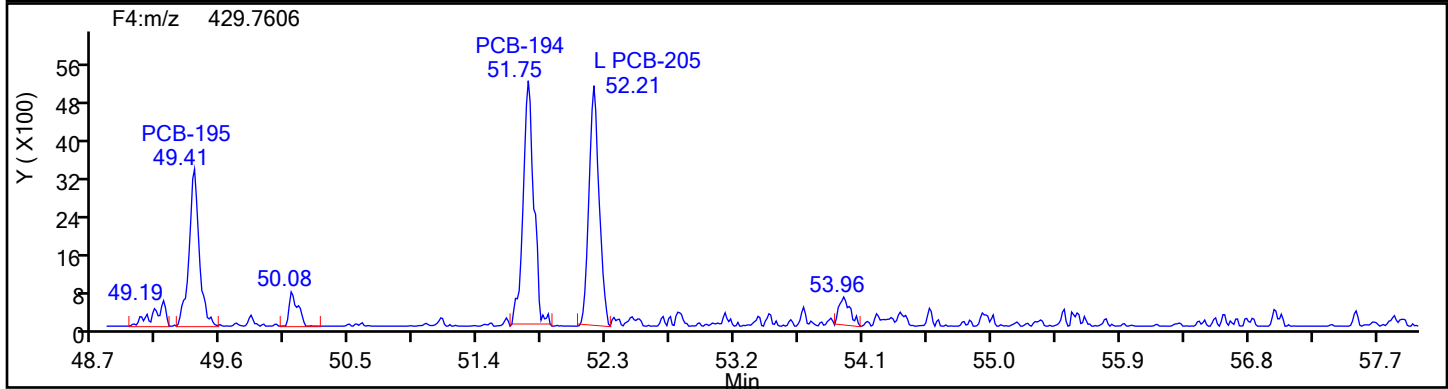
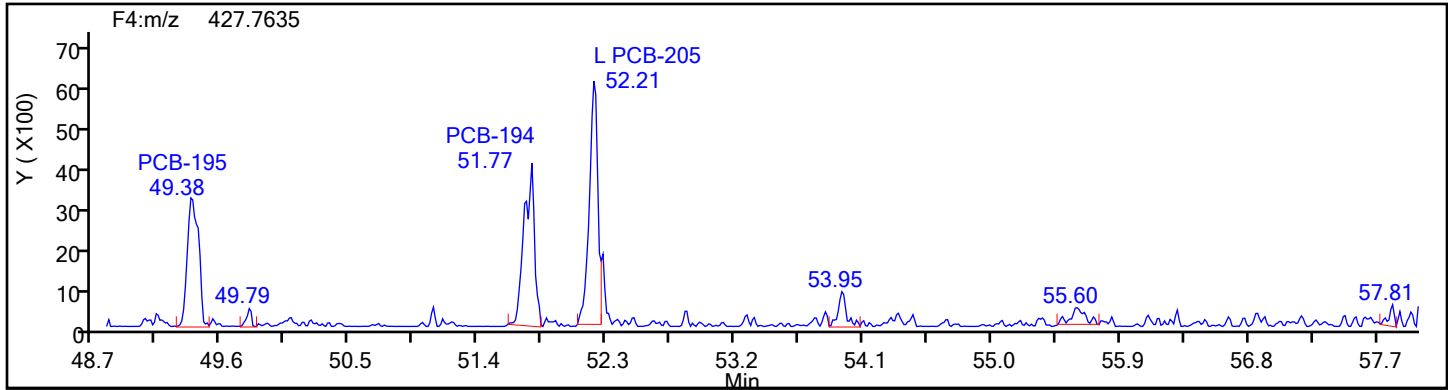
Worklist#: 87130

Sample Line#: 1

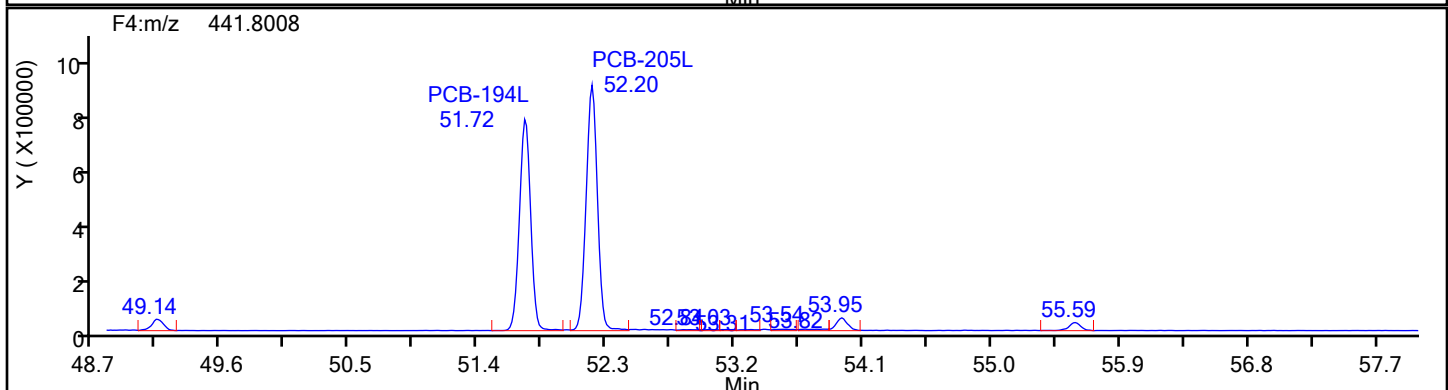
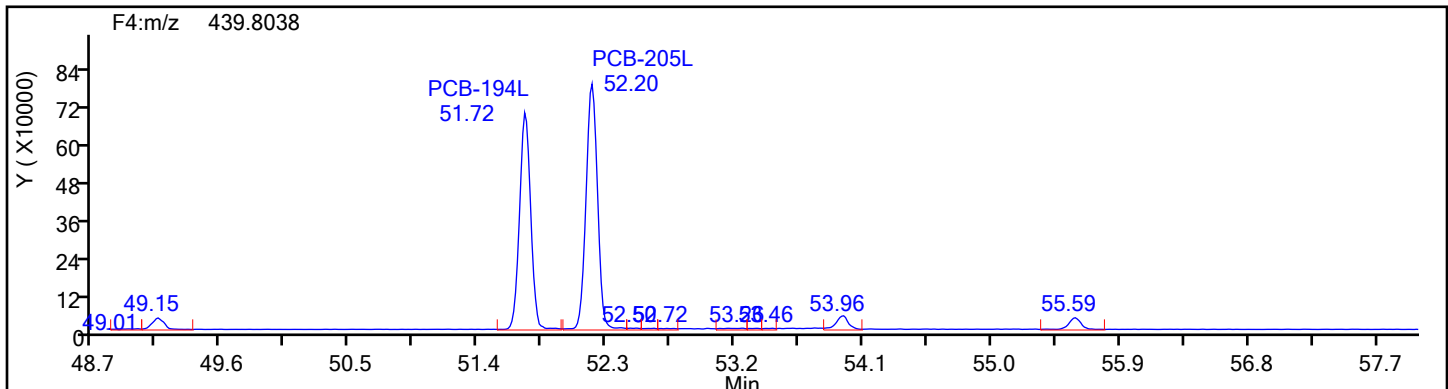
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

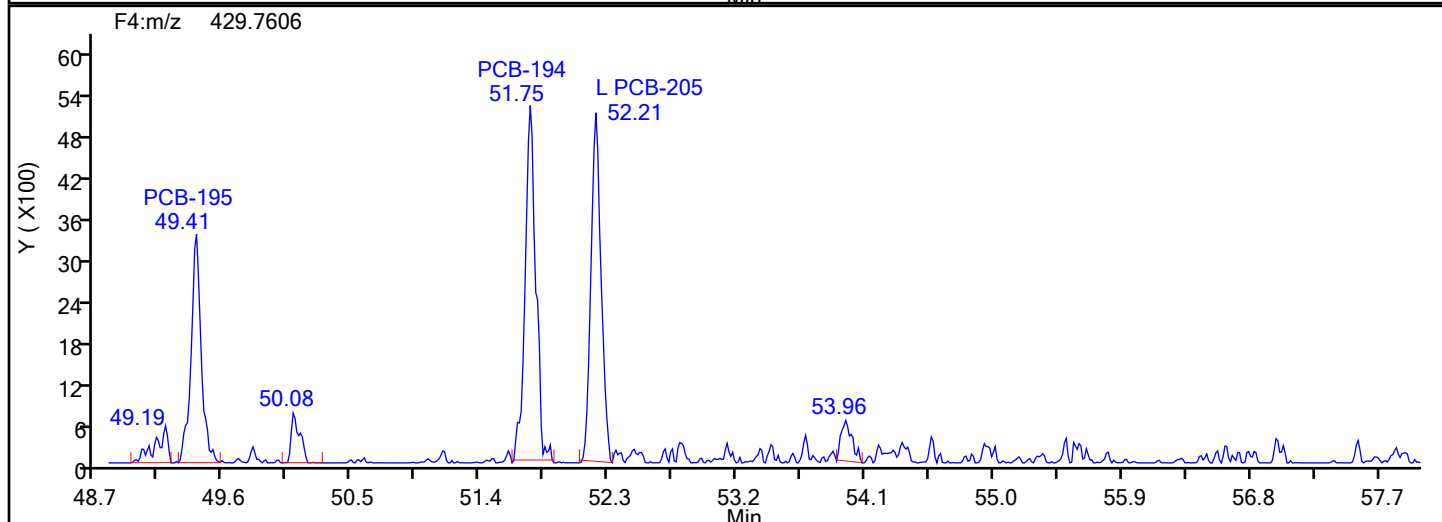
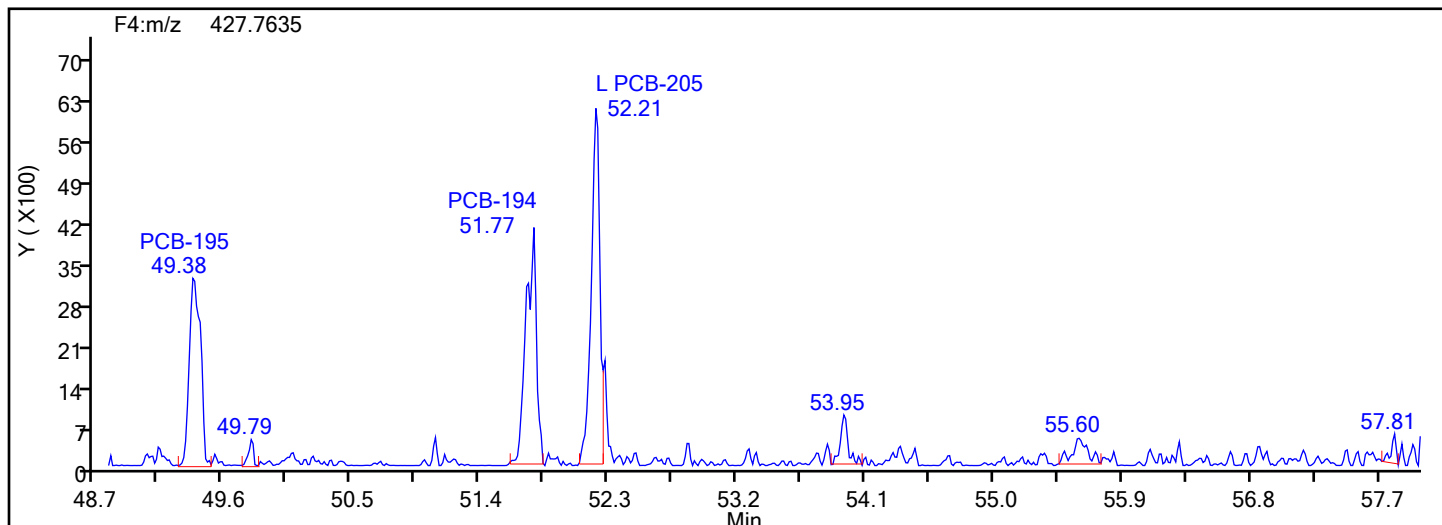
Worklist#: 87130

Sample Line#: 1

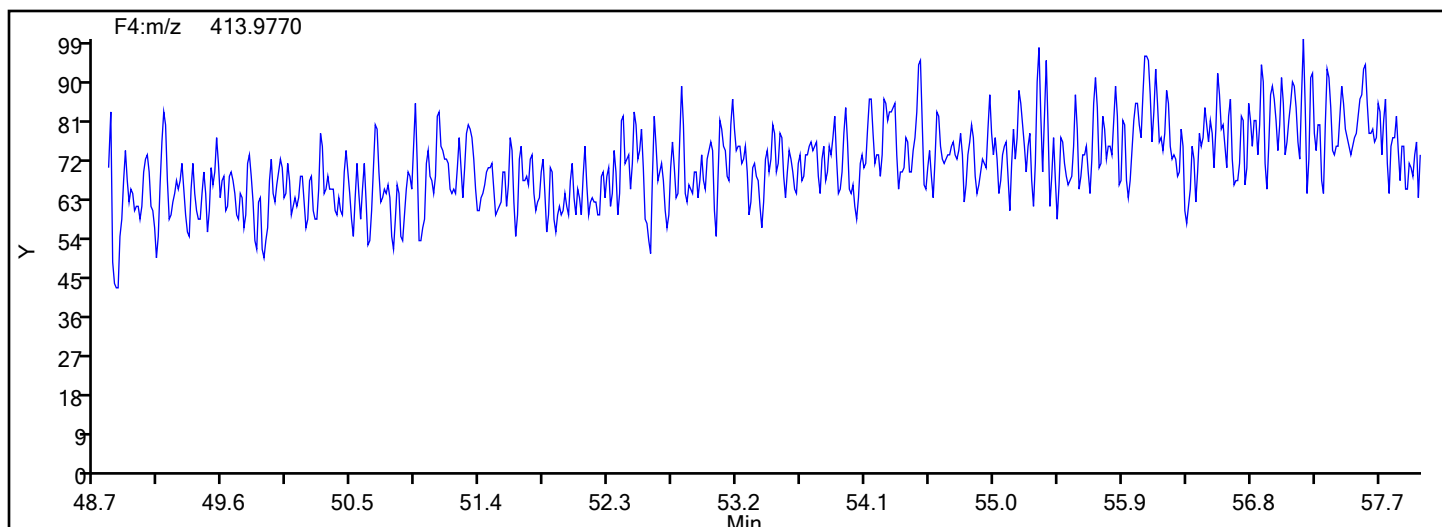
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

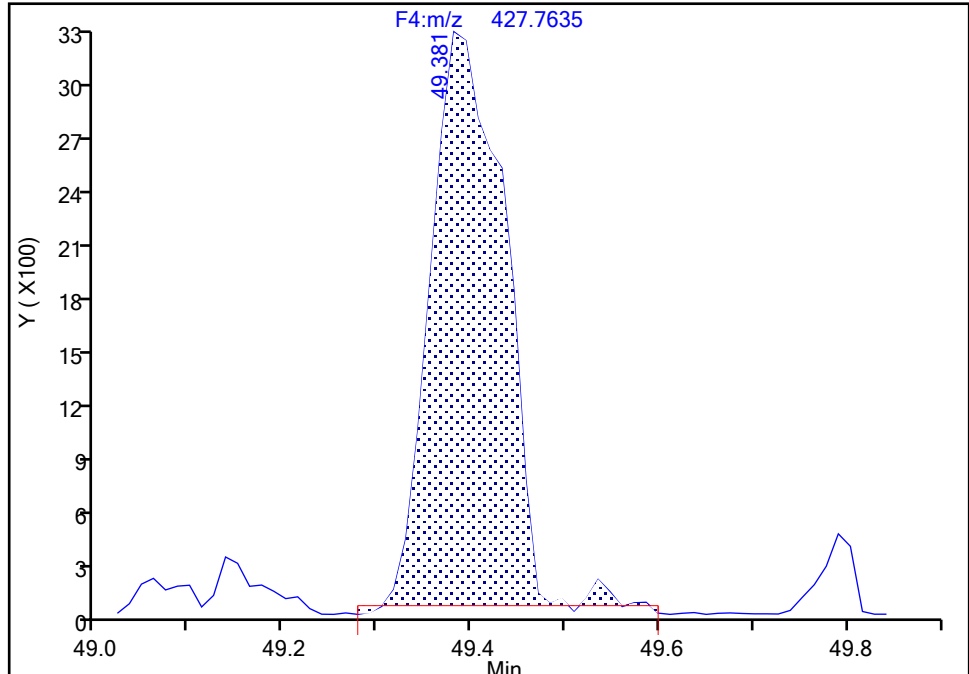
Detector F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 1

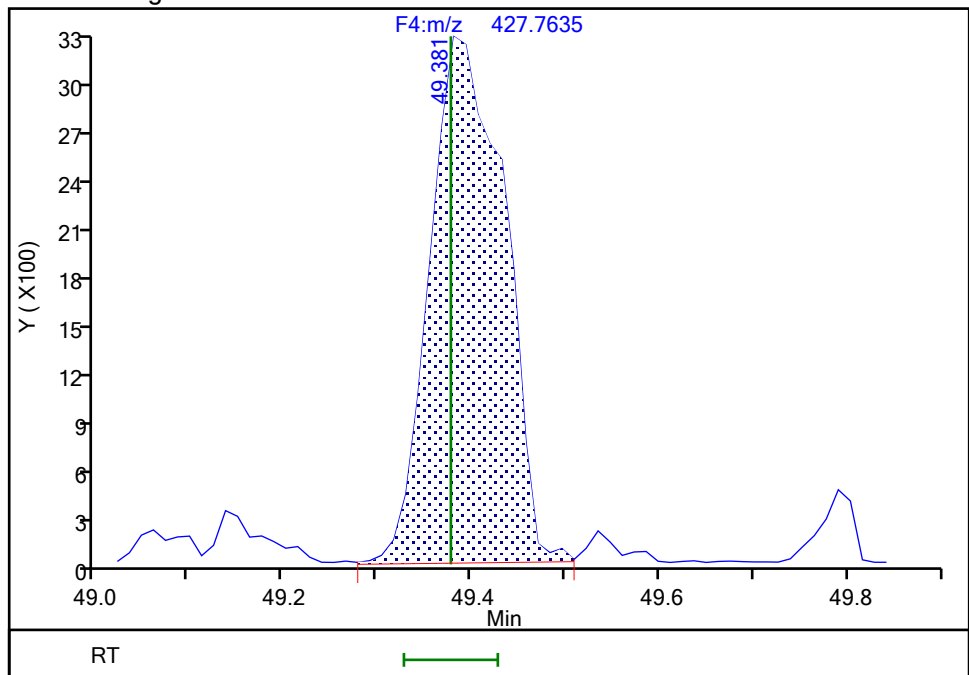
RT: 49.38
Area: 17206
Amount: 0.436356
Amount Units: pg/ul

Processing Integration Results



RT: 49.38
Area: 17759
Amount: 0.448033
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:33:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

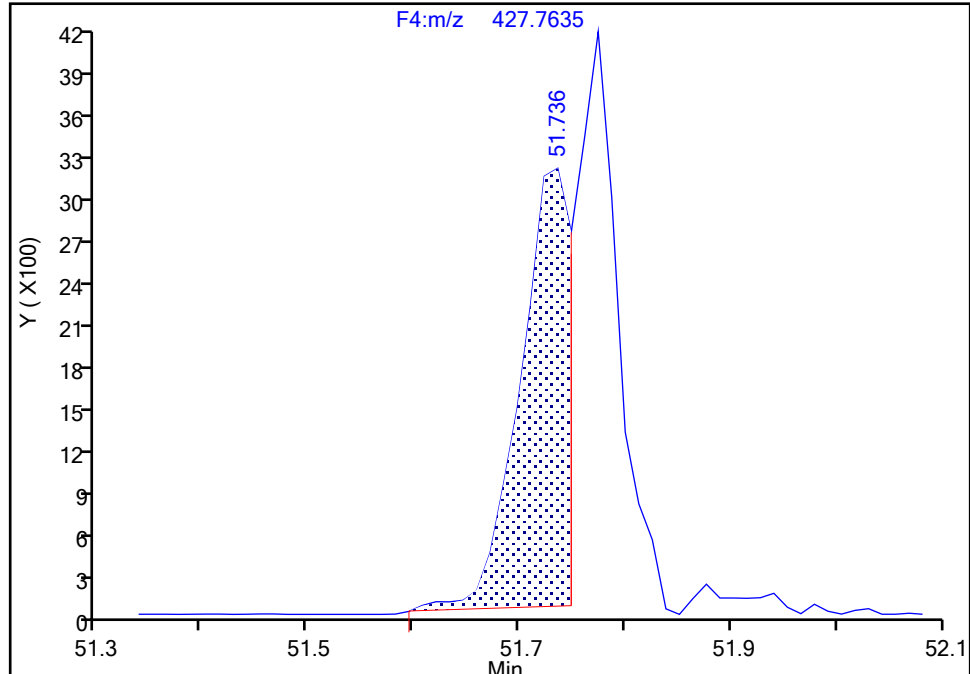
F4(49.20 :57.50)

PCB-194, CAS: 35694-08-7

Signal: 1

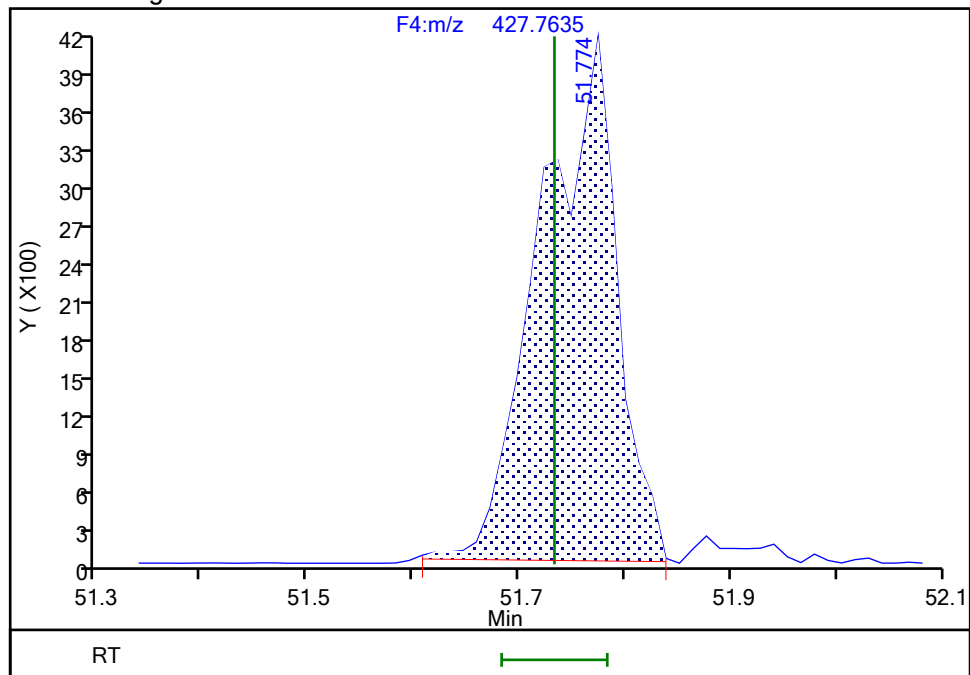
RT: 51.74
Area: 9636
Amount: 0.438844
Amount Units: pg/ul

Processing Integration Results



RT: 51.77
Area: 20698
Amount: 0.530521
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

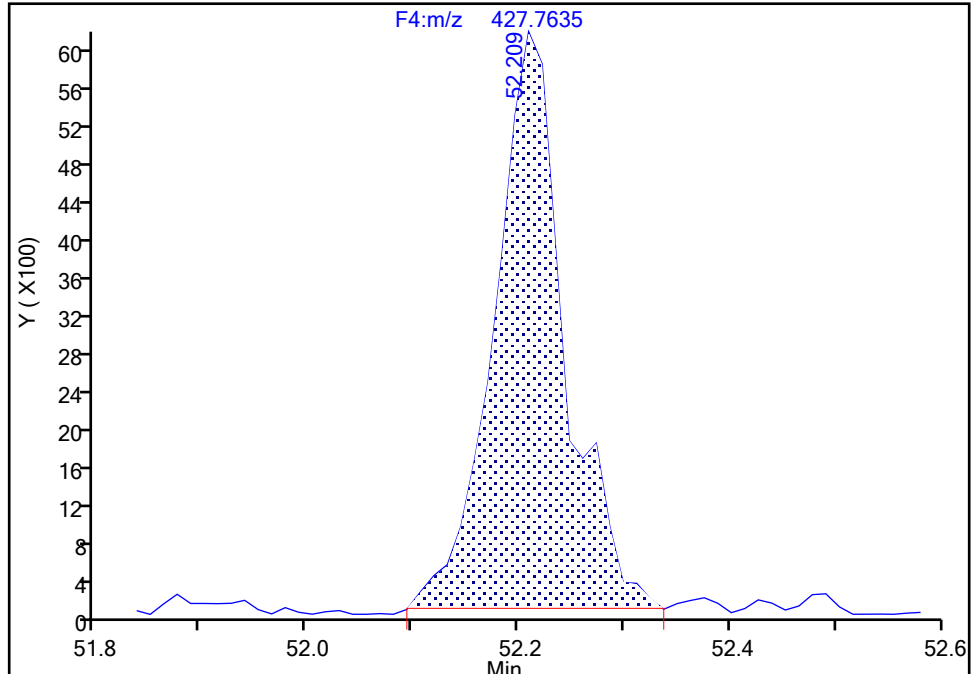
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

PCB-205, CAS: 74472-53-0

Signal: 1

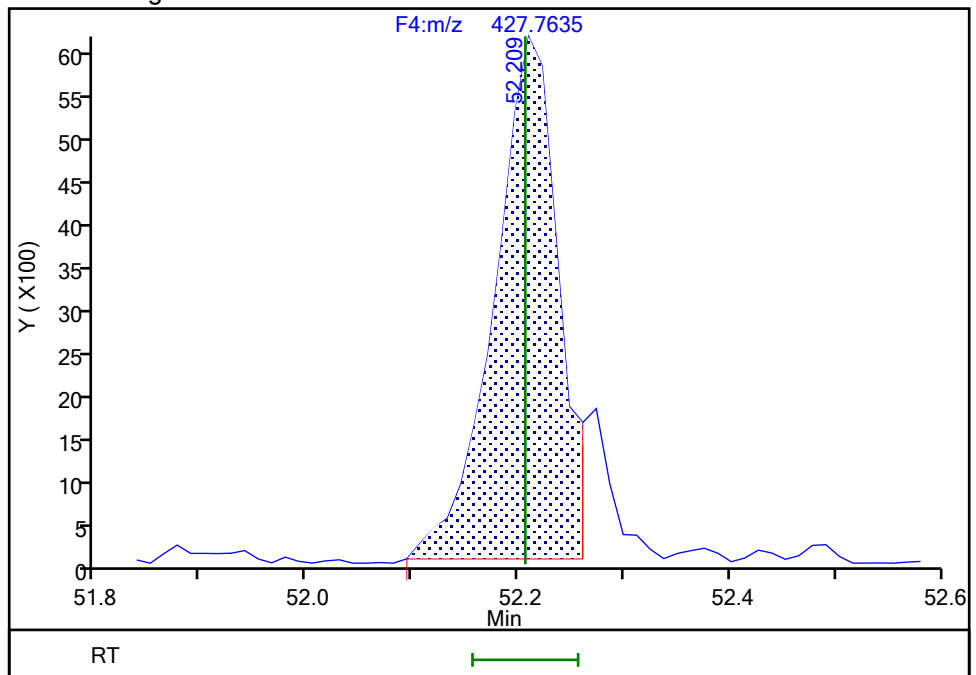
RT: 52.21
Area: 28510
Amount: 0.514801
Amount Units: pg/ul

Processing Integration Results



RT: 52.21
Area: 25496
Amount: 0.502033
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

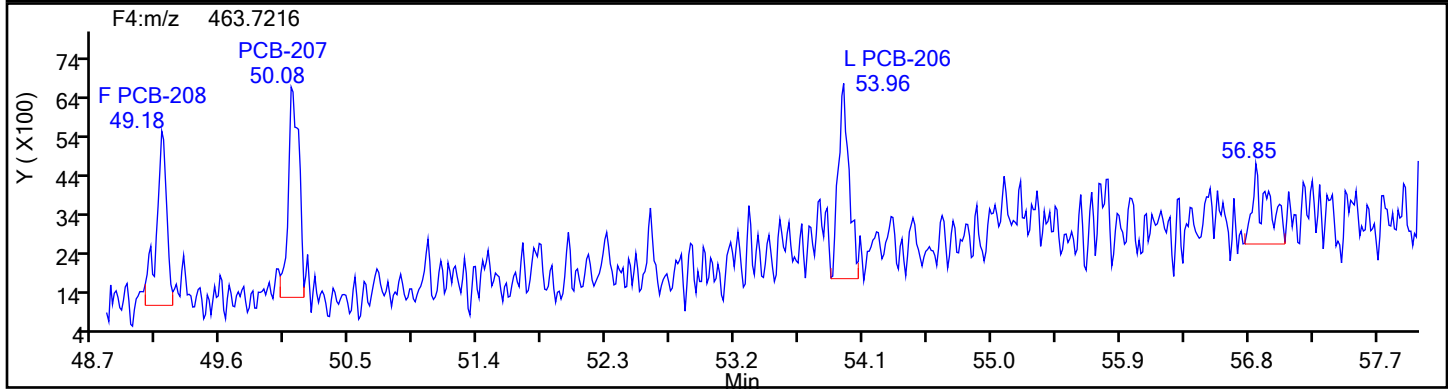
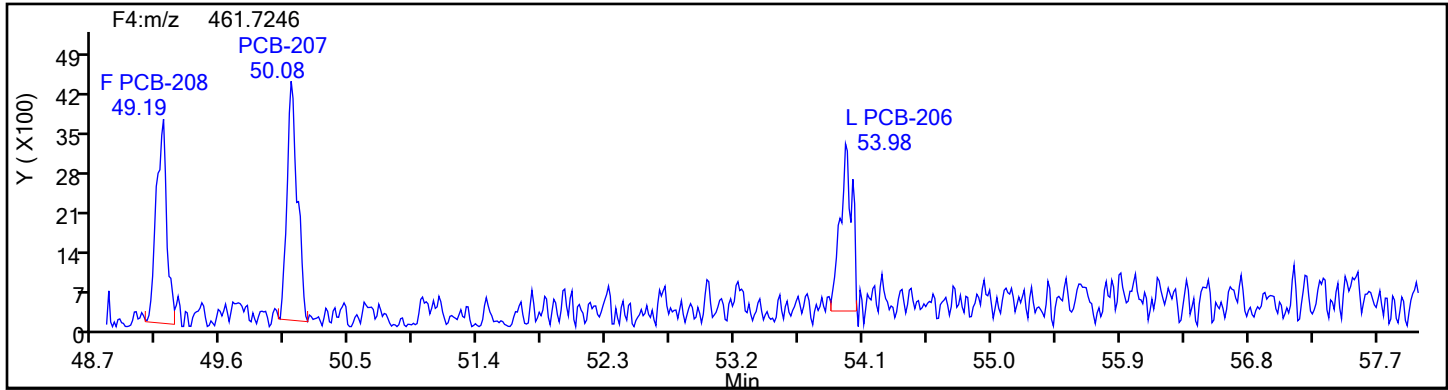
Worklist#: 87130

Sample Line#: 1

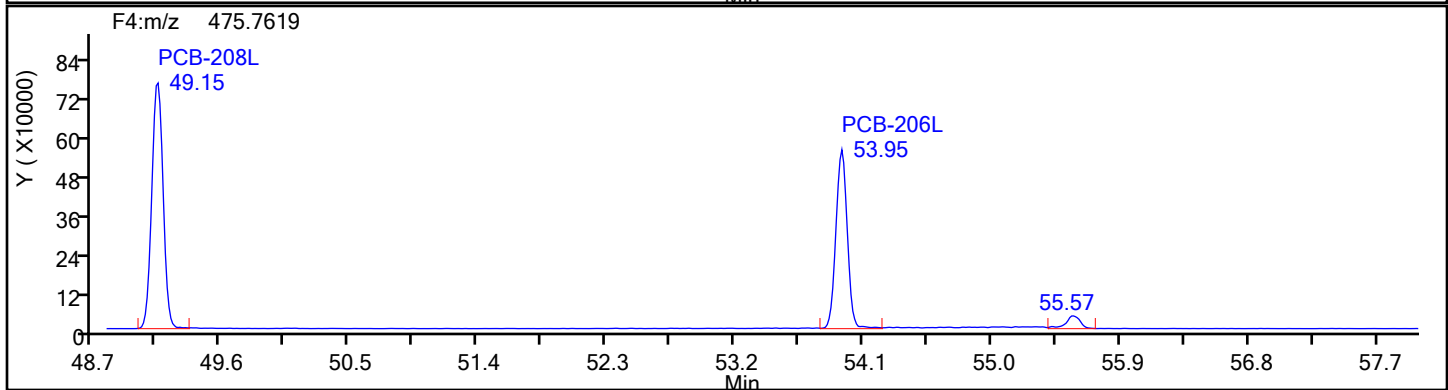
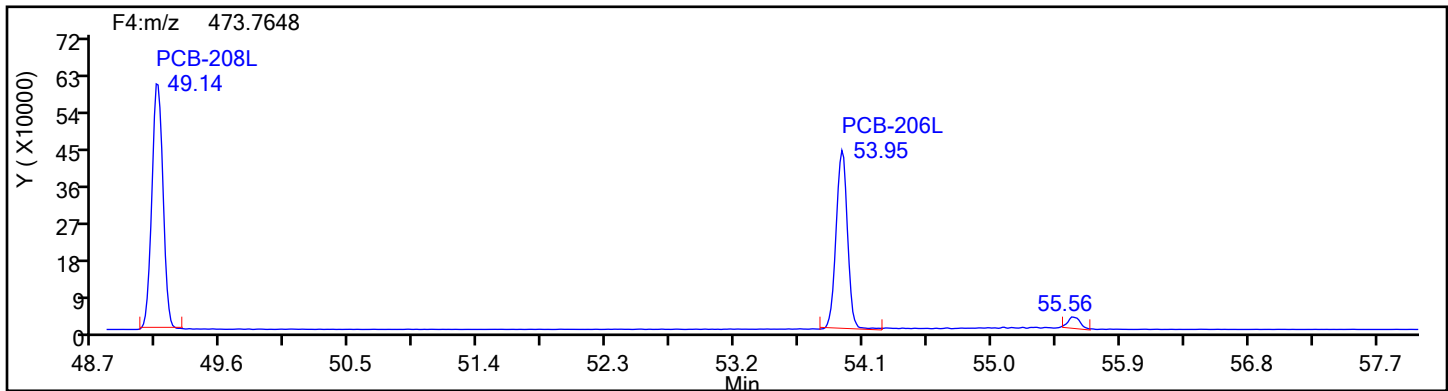
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

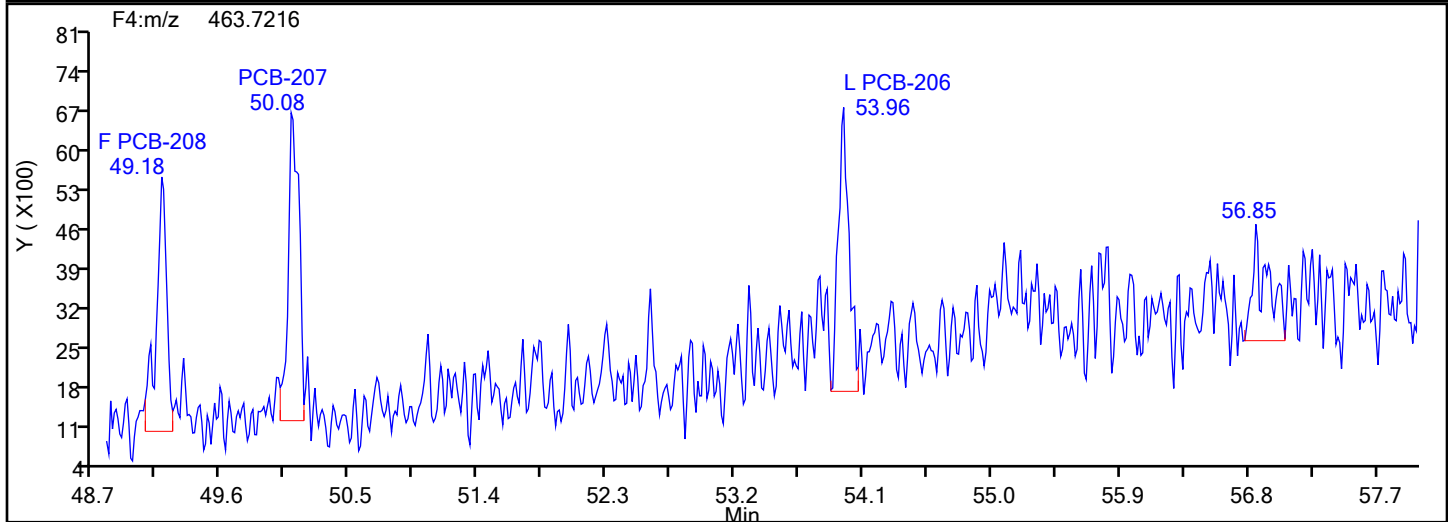
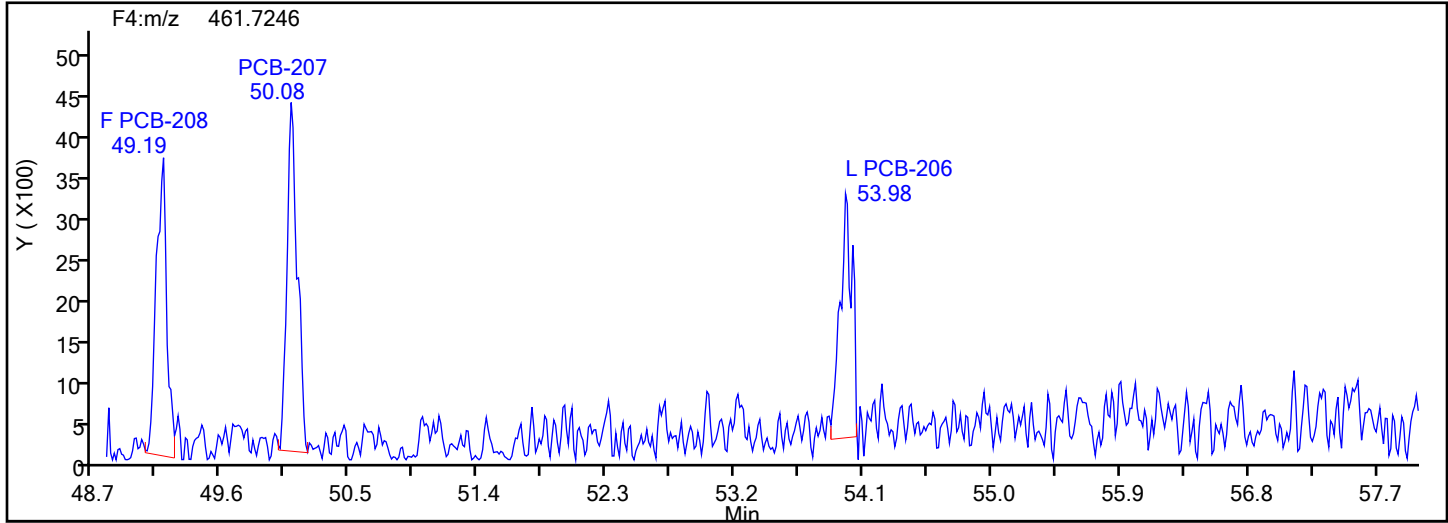
Worklist#: 87130

Sample Line#: 1

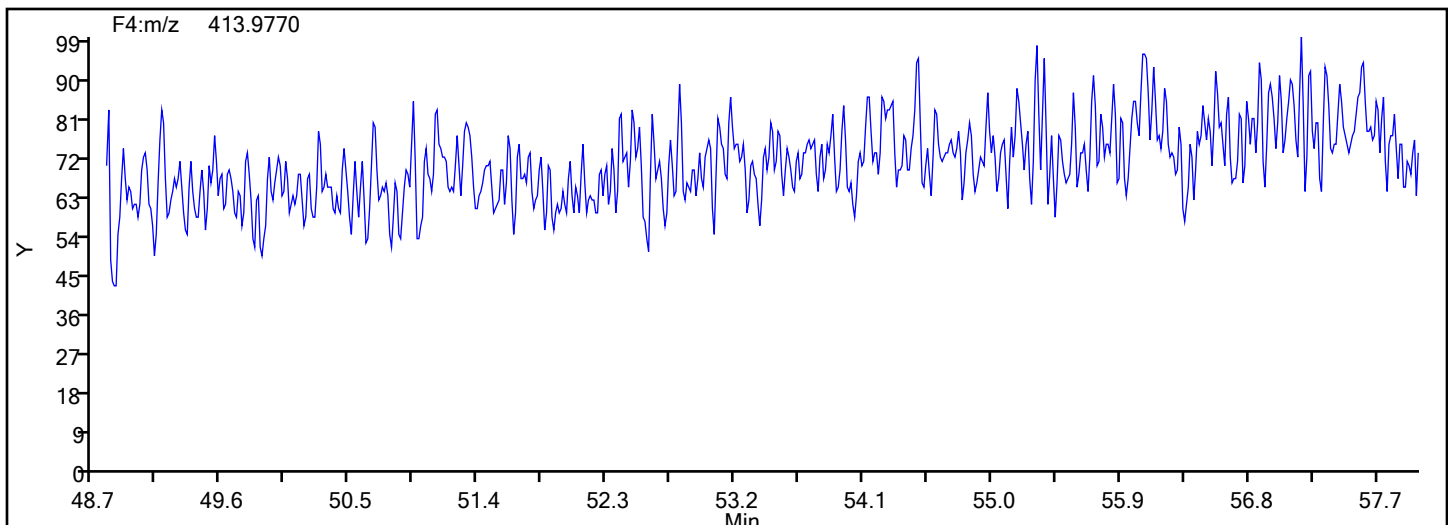
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

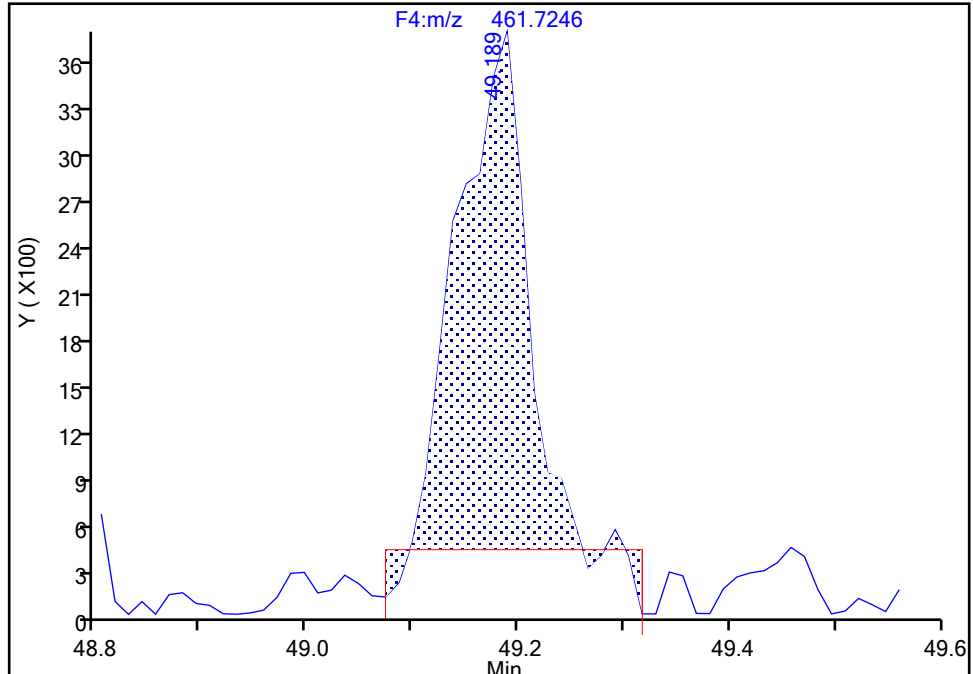
Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

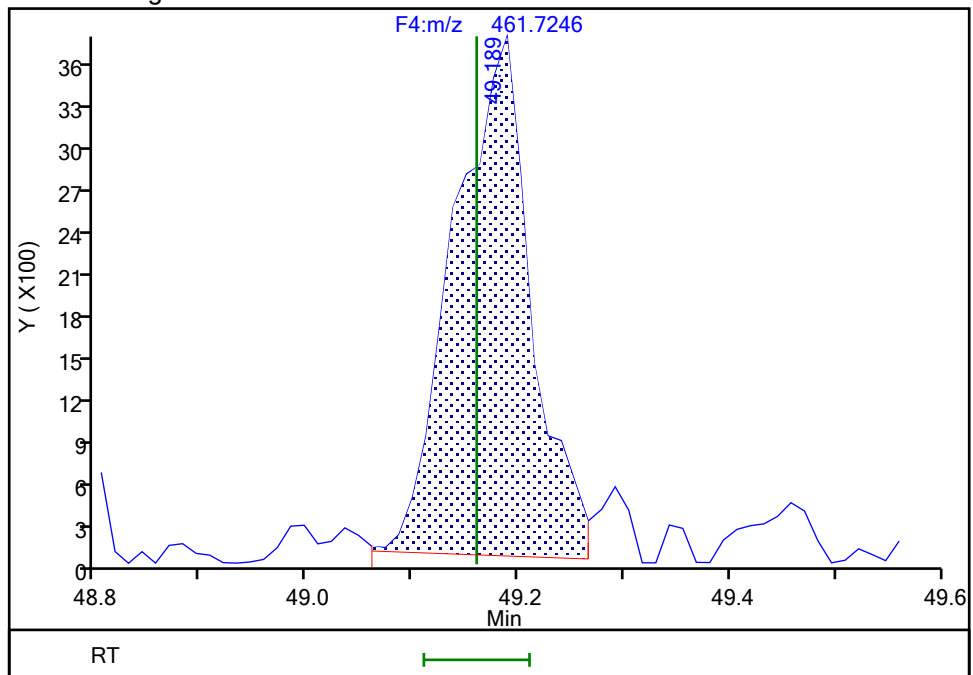
RT: 49.19
Area: 14249
Amount: 0.339411
Amount Units: pg/ul

Processing Integration Results



RT: 49.19
Area: 18598
Amount: 0.487524
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

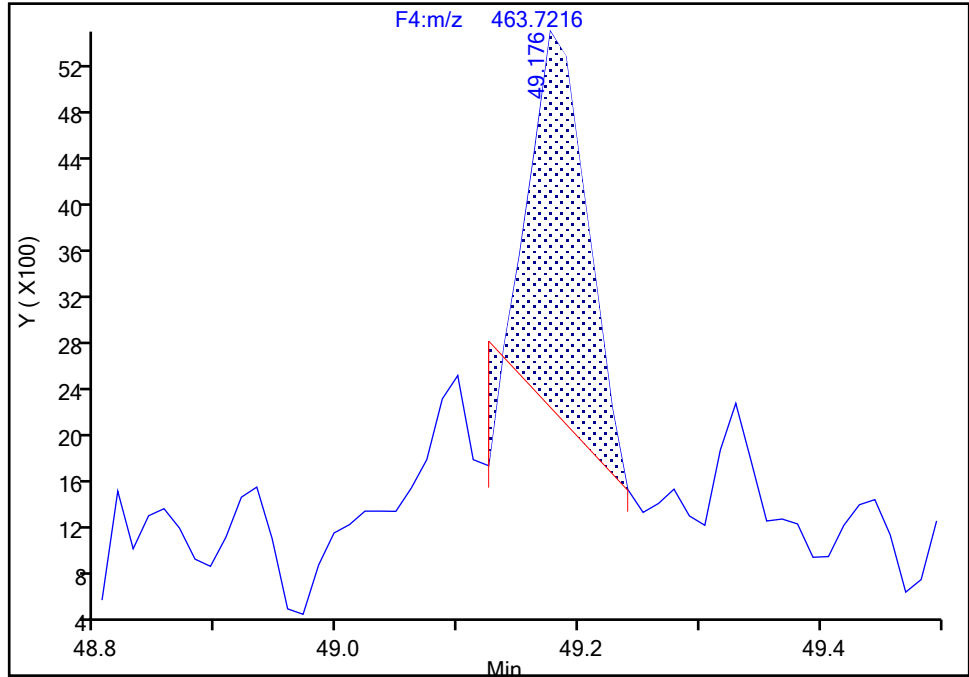
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

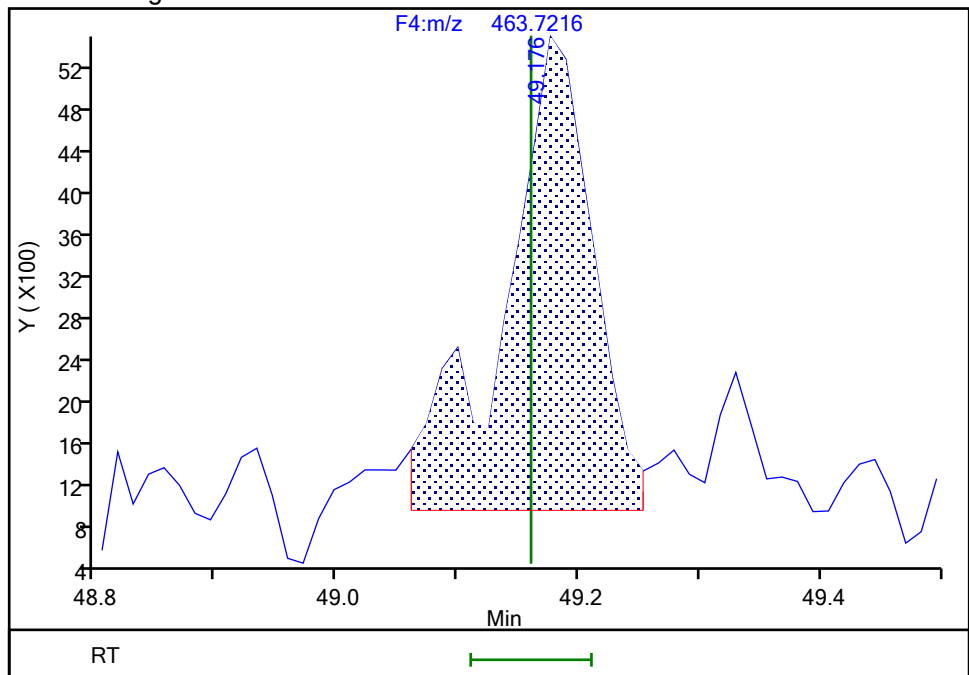
RT: 49.18
Area: 10262
Amount: 0.339411
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 22997
Amount: 0.487524
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 1825 of 3050

BASFWC-McIntosh-009826

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

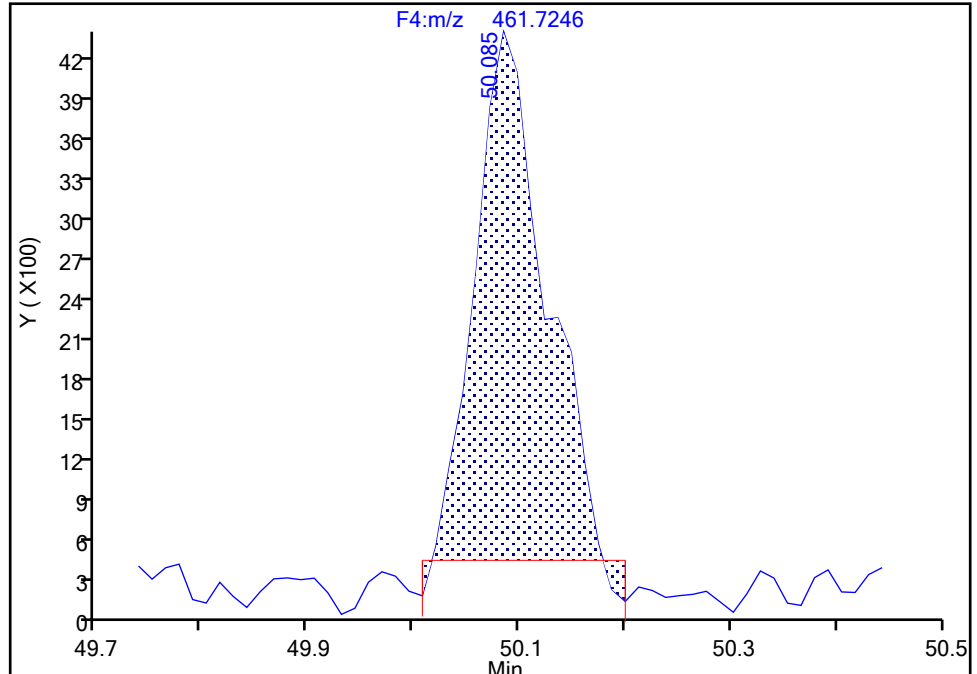
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 1

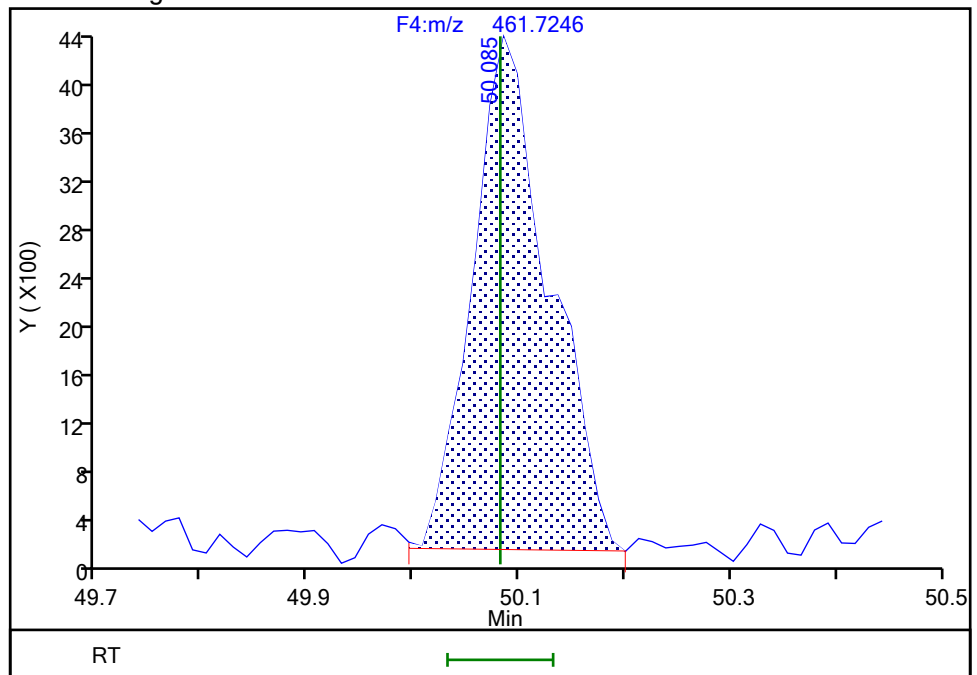
RT: 50.08
Area: 17897
Amount: 0.469716
Amount Units: pg/ul

Processing Integration Results



RT: 50.08
Area: 21467
Amount: 0.558340
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

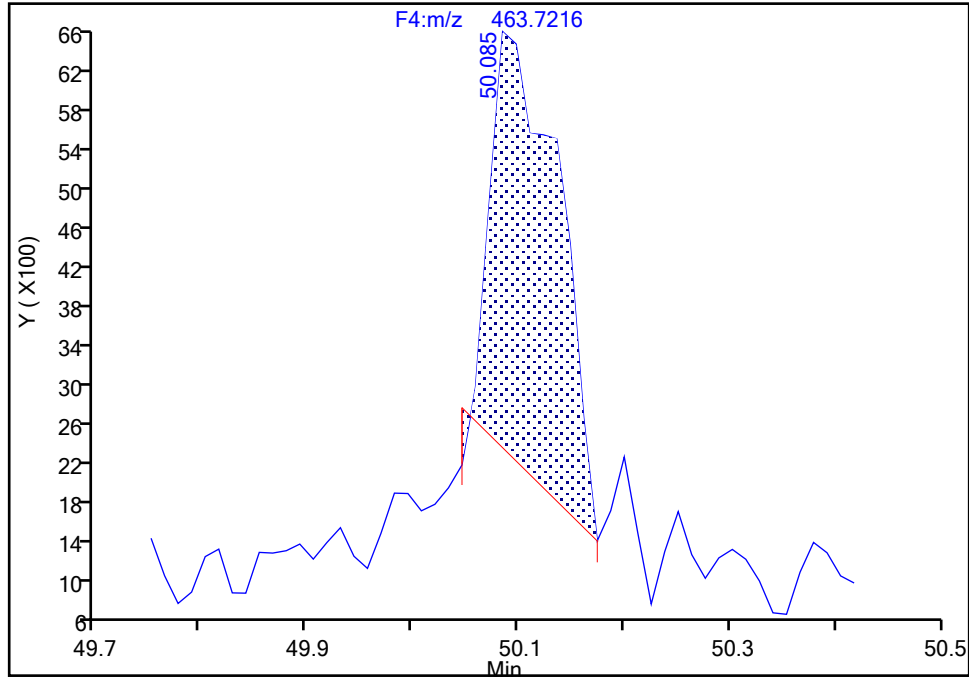
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

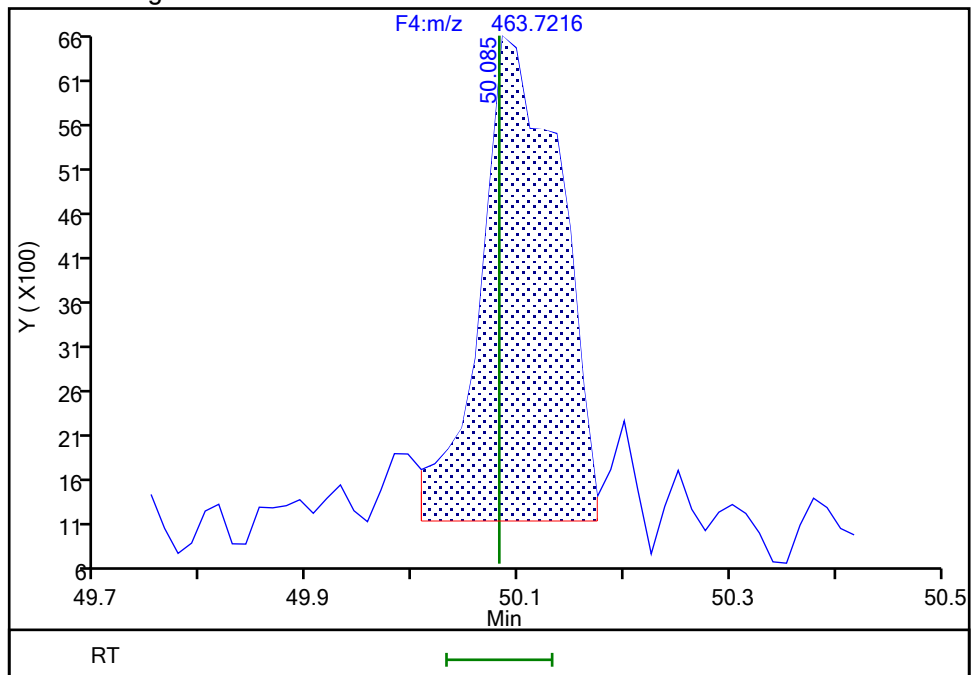
RT: 50.08
Area: 19436
Amount: 0.469716
Amount Units: pg/ul

Processing Integration Results



RT: 50.08
Area: 28459
Amount: 0.558340
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1827 of 3050

BASFWC-McIntosh-009828

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

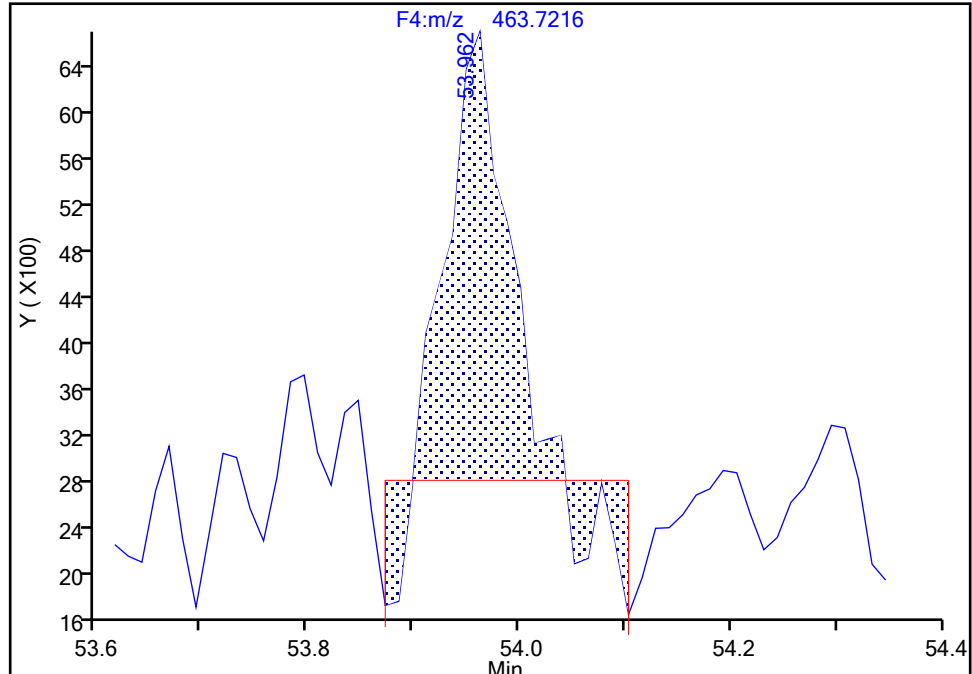
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

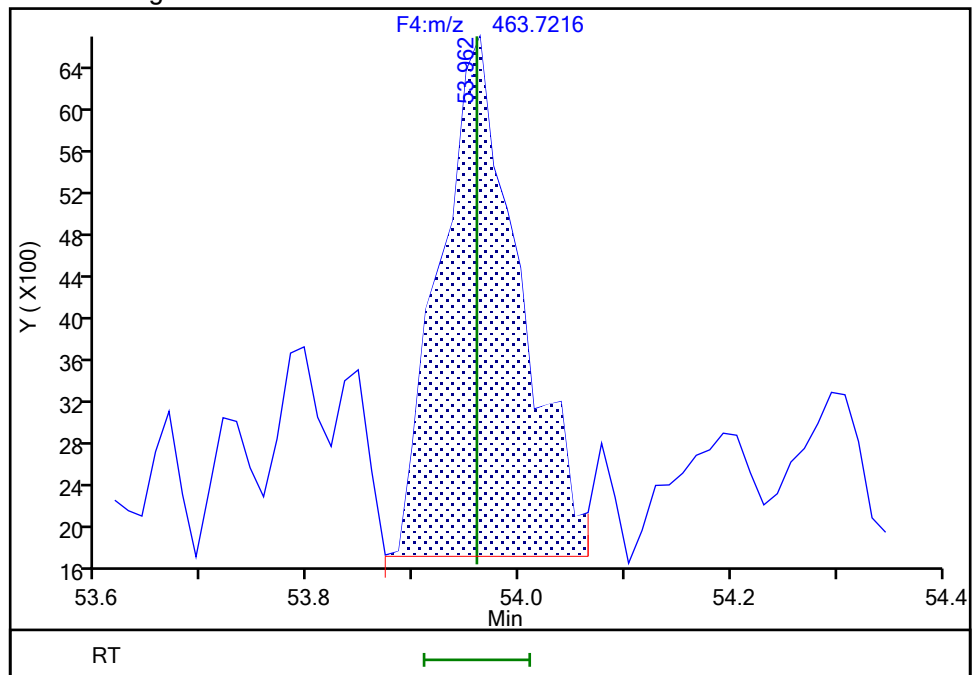
RT: 53.96
Area: 12199
Amount: 0.382448
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 26155
Amount: 0.591963
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:39:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

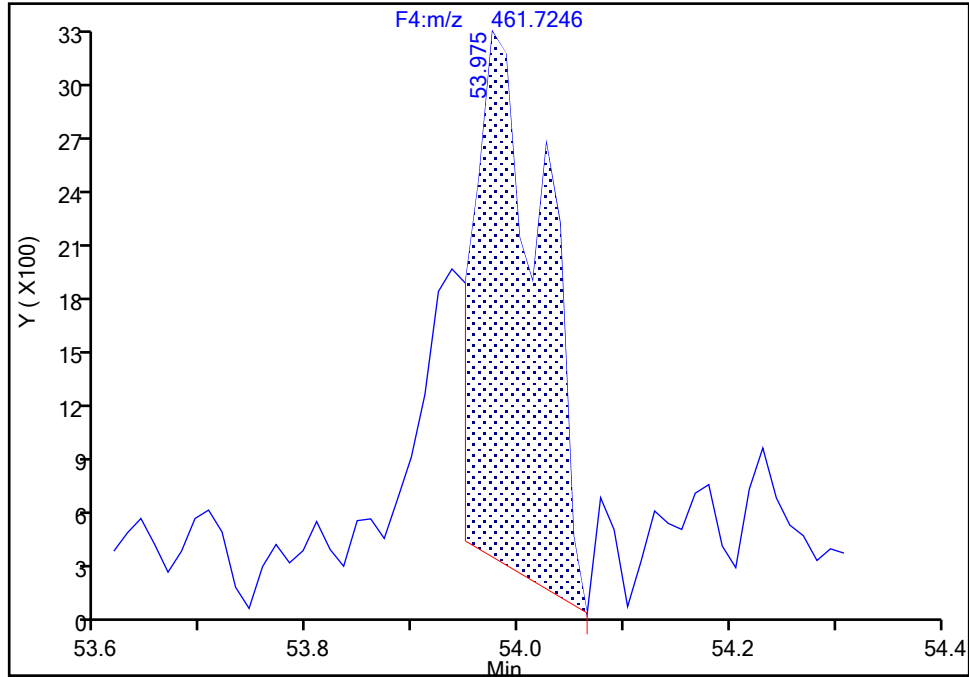
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D
Lims ID: IC L1
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

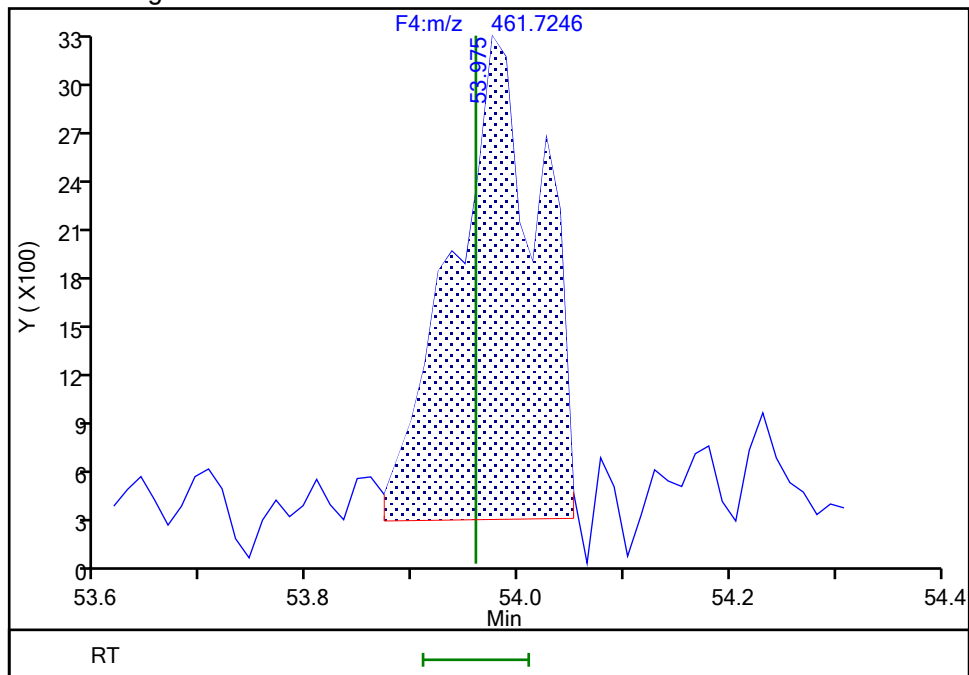
RT: 53.98
Area: 13091
Amount: 0.382448
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 17294
Amount: 0.591963
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:29:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1829 of 3050

BASFWC-McIntosh-009830

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

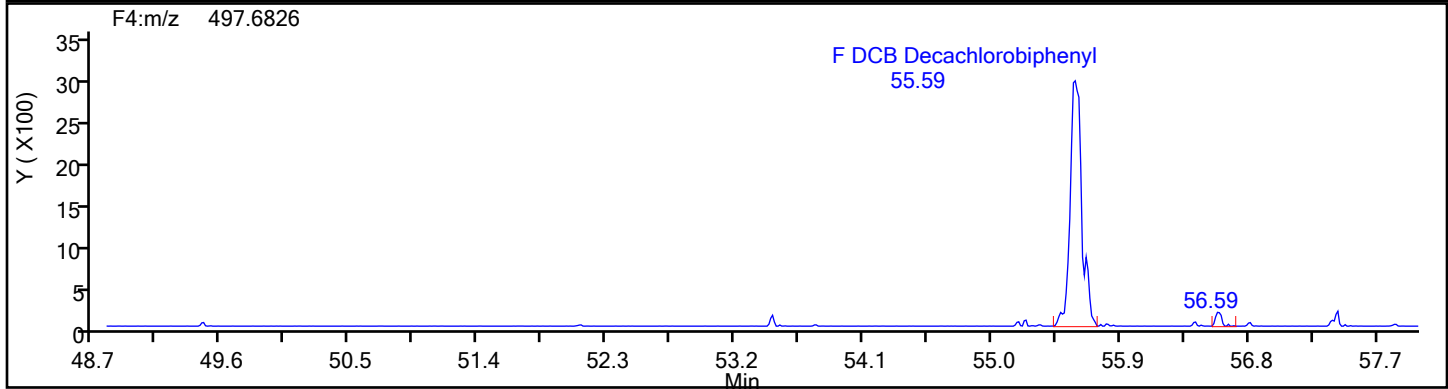
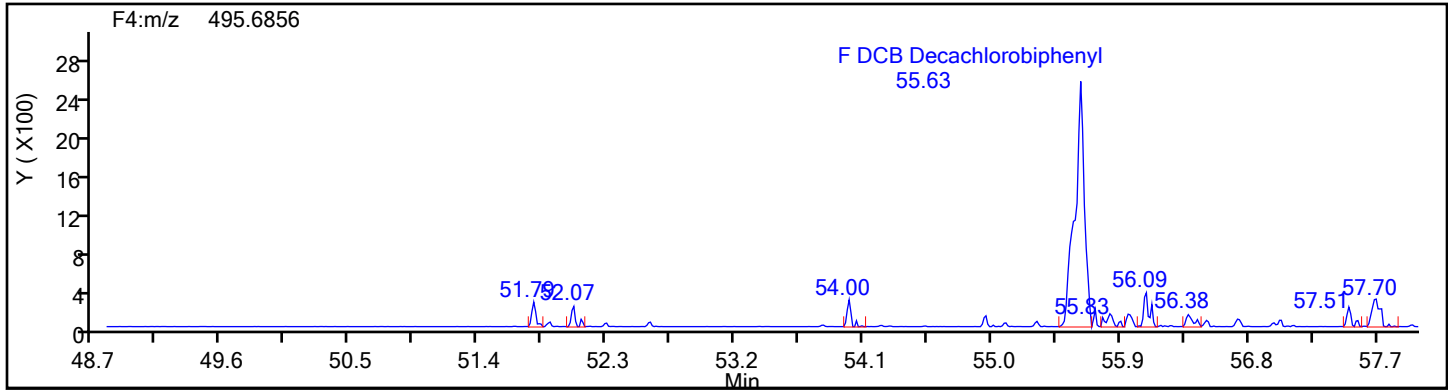
Worklist#: 87130

Sample Line#: 1

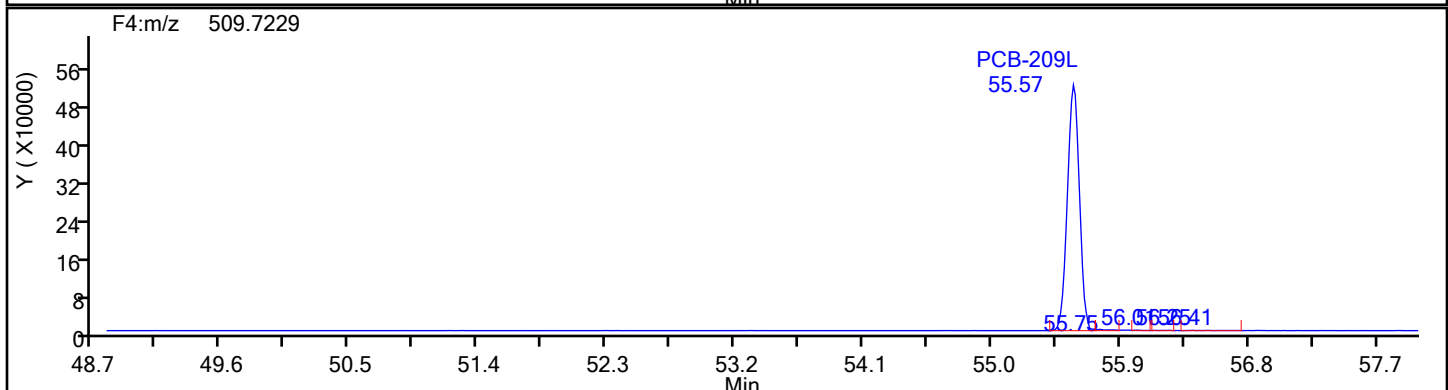
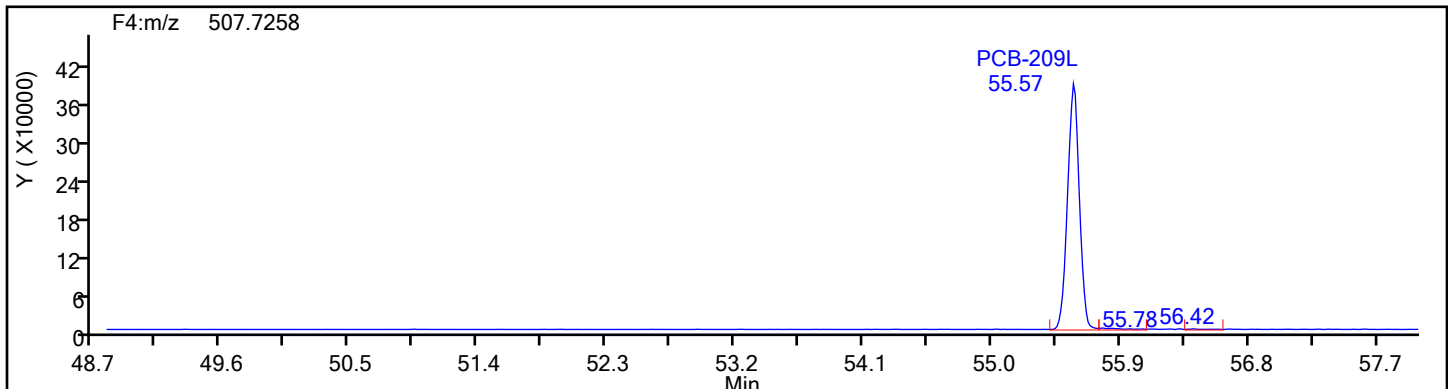
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4

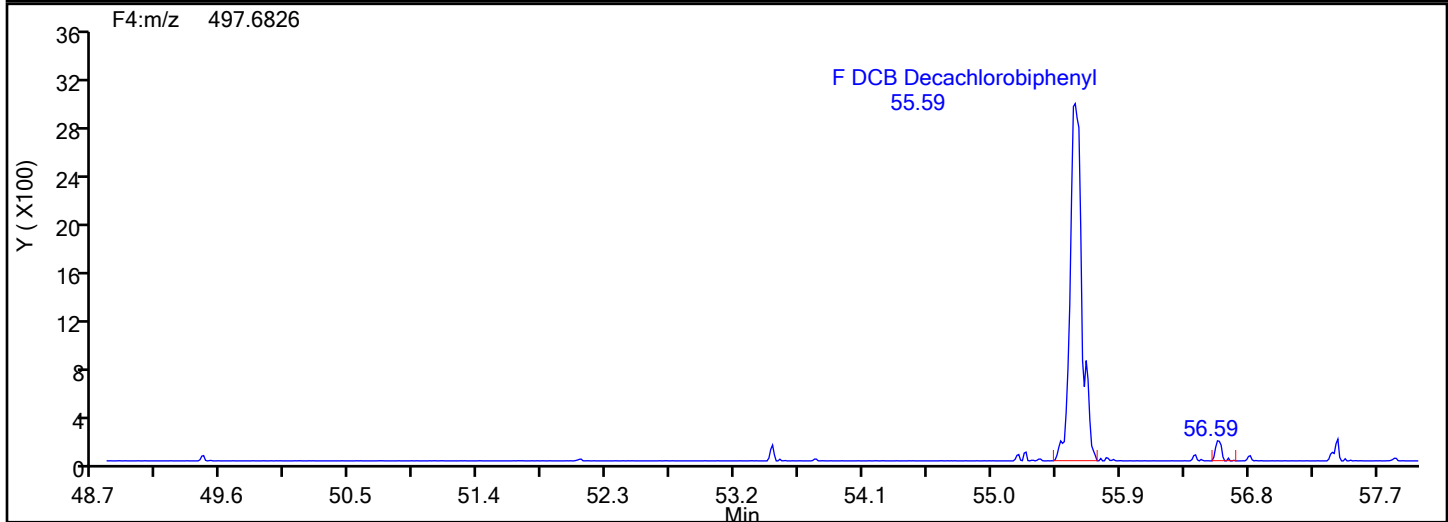
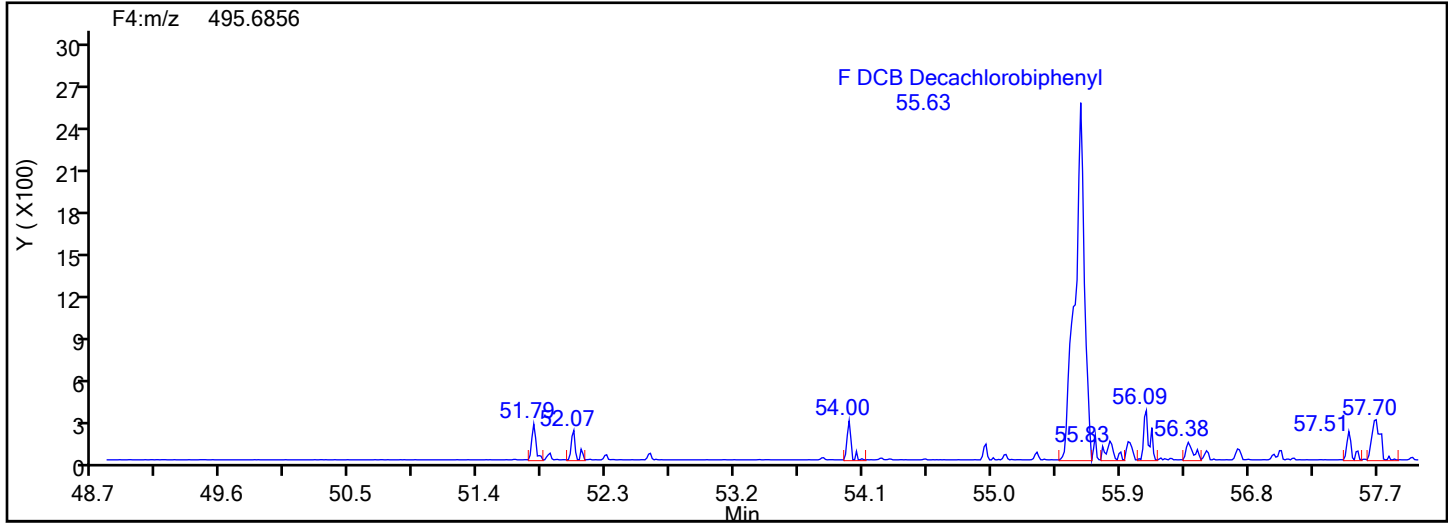


DePCB F4 Standards

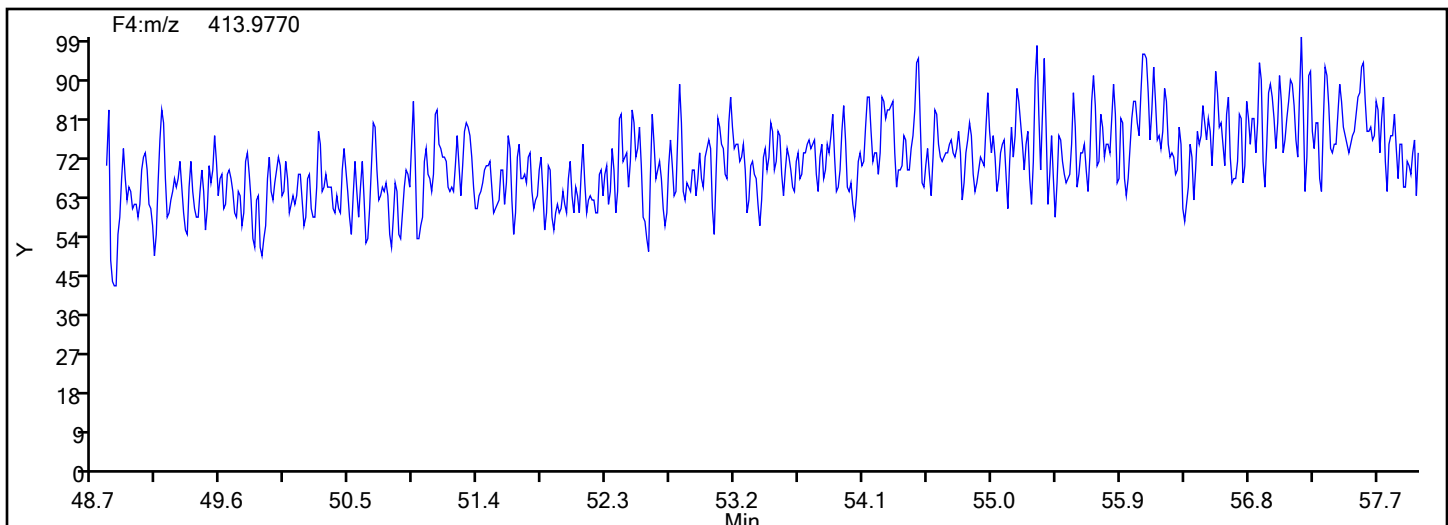


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d
Injection Date: 31-May-2024 14:36:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
 Lims ID: IC L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0032883-002
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub16
 Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.962	2.962	0.0112	0.0112		
D PCB-1L	11:38	13411930	3.16	1.6108	99.9	99.9	0.2949	0.2949	99.88	
D PCB-3L	13:47	13166477	3.24	1.5891	99.4	99.4	0.2989	0.2989	99.39	
PCB-1	11:39	167653	3.15	1.2191	1.025	1.025	0.0100	0.0100	103	
PCB-2	13:38	152137	2.98	1.1805	0.9698	0.9698	0.0114	0.0114	96.98	
PCB-3	13:48	155451	3.08	1.2206	0.9673	0.9673	0.0122	0.0122	96.73	
S Total Dichlorobiphenyls					11.7	11.4	0.004935	0.004935		RQ
D PCB-4L	14:03	5442766	1.62	0.6475	100.8	100.8	0.0919	0.0919	101	
* PCB-9L	16:01	8336299	1.63		100.0	100.0				
D PCB-15L	19:56	8819361	1.63	1.0789	98.1	98.1	0.0552	0.0552	98.05	
PCB-4	14:04	71281	1.69	1.2818	1.022	1.022	0.005795	0.005795	102	
PCB-10	14:14	90939	1.57	1.3149	0.9699	0.9699	0.005163	0.005163	96.99	
PCB-9	16:01	101769	1.52	1.4224	1.003	1.003	0.004772	0.004772	100	
PCB-7	16:12	90721	1.56	1.4134	0.990	0.9001	0.004803	0.004803	99.01	RQ
PCB-6	16:26	97620	1.56	1.5421	0.9891	0.8877	0.004402	0.004402	98.91	RQM
PCB-5	16:45	93073	1.75	1.3395	0.9744	0.9744	0.005068	0.005068	97.44	
PCB-8	16:52	108520	1.52	1.5889	0.9578	0.9578	0.004273	0.004273	95.78	
PCB-14	18:30	95706	1.69	1.4025	0.9570	0.9570	0.004840	0.004840	95.70	
PCB-11	19:20	75686	1.56	1.2951	0.9055	0.8195	0.005242	0.005242	90.55	RQ
PCB-12	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-13 (C12)	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-15	19:57	113904	1.54	1.2903	1.001	1.001	0.004844	0.004844	100	
S Total Trichlorobiphenyls					23.6	23.5	0.0336	0.0336		RQ
D PCB-19L	17:09	3424036	1.04	0.6285	102.9	102.9	0.4510	0.4510	103	
* PCB-32L	20:24	5295691	1.10		100.0	100.0				
* PCB-31L	22:40	15100361	1.04		100.0	100.0				
D PCB-37L	26:57	13255798	1.07	0.8749	100.3	100.3	0.1254	0.1254	100	
PCB-19	17:10	37931	1.09	1.2809	0.8649	0.8649	0.0107	0.0107	86.49	
PCB-18	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-30 (C18)	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-17	19:27	43052	1.03	1.2430	1.012	1.012	0.0111	0.0111	101	
PCB-27	19:40	61773	1.11	1.8327	0.9844	0.9844	0.007507	0.007507	98.44	
PCB-24	19:48	55539	1.02	1.6777	0.9668	0.9668	0.008201	0.008201	96.68	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	32476	1.04	1.1286	0.9420	0.8404	0.0122	0.0122	94.20	RQ
PCB-32	20:25	60227	1.04	1.8324	0.9599	0.9599	0.007508	0.007508	95.99	
PCB-34	21:41	145822	1.01	1.1277	0.9755	0.9755	0.0471	0.0471	97.55	
PCB-23	21:50	148152	1.12	1.0813	1.034	1.034	0.0491	0.0491	103	
PCB-26	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-29 (C26)	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-25	22:22	160869	1.03	1.2728	0.9535	0.9535	0.0417	0.0417	95.35	
PCB-31	22:41	160841	1.12	1.1532	1.052	1.052	0.0460	0.0460	105	
PCB-20	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-28 (C20)	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-21	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-33 (C21)	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-22	23:37	164376	1.03	1.1932	1.039	1.039	0.0445	0.0445	104	
PCB-36	25:11	150690	1.02	1.1071	1.027	1.027	0.0480	0.0480	103	
PCB-39	25:31	150829	1.11	1.1581	0.9825	0.9825	0.0458	0.0458	98.25	
PCB-38	26:06	142649	1.08	1.0843	0.992	0.992	0.0490	0.0490	99.24	M
PCB-35	26:35	142742	1.10	1.1297	0.9532	0.9532	0.0470	0.0470	95.32	
PCB-37	26:59	148485	1.10	1.1435	0.9796	0.9796	0.0464	0.0464	97.96	
S Total Tetrachlorobiphenyls					41.7	41.6	0.0899	0.0899		RQ
D PCB-54L	20:14	3010951	0.81	0.5562	102.2	102.2	0.0518	0.0518	102	M
* PCB-52L	24:47	7714563	0.80		100.0	100.0				
D PCB-81L	33:42	9378026	0.80	1.2470	97.5	97.5	0.1077	0.1077	97.49	
D PCB-77L	34:16	9952597	0.81	1.3212	97.6	97.6	0.1016	0.1016	97.65	
PCB-54	20:15	39894	0.73	1.2733	1.041	1.041	0.004787	0.004787	104	M
PCB-50	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-53 (C50)	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-45	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-51 (C45)	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-46	23:24	65825	0.86	0.7101	0.9591	0.9591	0.1397	0.1397	95.91	
PCB-52	24:48	87733	0.73	0.9194	0.9873	0.9873	0.1079	0.1079	98.73	
PCB-43	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-73 (C43)	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-49	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-69 (C49)	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-48	25:36	83950	0.76	0.8399	1.034	1.034	0.1181	0.1181	103	
PCB-44	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-47 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-65 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-59	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-62 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-75 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-42	26:19	79410	0.86	0.8097	1.015	1.015	0.1225	0.1225	101	
PCB-40	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-41 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-71 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-64	27:04	121326	0.74	1.1776	1.066	1.066	0.0843	0.0843	107	M
PCB-72	27:53	102800	0.84	1.0943	0.9720	0.9720	0.0907	0.0907	97.20	
PCB-68	28:11	120639	0.80	1.2533	0.996	0.996	0.0792	0.0792	99.59	
PCB-57	28:35	107838	0.84	1.0818	1.031	1.031	0.0917	0.0917	103	
PCB-58	28:50	117702	0.87	1.3253	0.9188	0.9188	0.0749	0.0749	91.88	
PCB-67	28:59	136003	0.88	1.4230	0.9888	0.9888	0.0697	0.0697	98.88	
PCB-63	29:15	113672	0.81	1.1240	1.046	1.046	0.0883	0.0883	105	
PCB-61	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-70 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-74 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-76 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-66	29:55	109748	0.77	1.2583	0.9790	0.9024	0.0788	0.0788	97.90	RQ
PCB-55	30:05	119512	0.82	1.3236	0.9342	0.9342	0.0750	0.0750	93.42	
PCB-56	30:35	112603	0.78	1.2334	0.9446	0.9446	0.0804	0.0804	94.46	
PCB-60	30:49	120369	0.66	1.1230	1.109	1.109	0.0883	0.0883	111	
PCB-80	31:13	128092	0.83	1.3243	1.001	1.001	0.0749	0.0749	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:45	147654	0.73	1.4368	1.063	1.063	0.0690	0.0690	106	
PCB-78	33:18	115640	0.74	1.1618	1.030	1.030	0.0854	0.0854	103	M
PCB-81	33:43	102785	0.69	1.0802	1.015	1.015	0.0934	0.0934	101	M
PCB-77	34:18	110963	0.78	1.0836	1.029	1.029	0.0901	0.0901	103	
S Total Pentachlorobiphenyls					45.9	44.9	0.0186	0.0186		RQ
D PCB-104L	25:44	6240748	1.61	1.2161	101.1	101.1	0.0146	0.0146	101	
* PCB-101L	31:39	5076656	1.61		100.0	100.0				
D PCB-123L	36:17	9073751	1.56	0.9731	94.8	94.8	1.318	1.318	94.78	
D PCB-118L	36:36	9353232	1.58	1.0102	94.1	94.1	1.269	1.269	94.12	
D PCB-114L	37:07	9705413	1.58	0.9949	99.2	99.2	1.289	1.289	99.17	
D PCB-105L	37:47	9101468	1.58	0.9514	97.2	97.2	1.348	1.348	97.24	
* PCB-127L	39:15	9837203	1.58		100.0	100.0				
D PCB-126L	40:51	8756063	1.59	0.9439	94.3	94.3	1.359	1.359	94.30	
PCB-104	25:46	61528	1.33	1.0087	0.9774	0.9774	0.008027	0.008027	97.74	M
PCB-96	26:08	63380	1.53	1.0940	0.9283	0.9283	0.007401	0.007401	92.83	
PCB-103	28:04	54610	1.48	0.8741	1.001	1.001	0.009263	0.009263	100	
PCB-94	28:18	50670	1.70	0.7640	1.063	1.063	0.0106	0.0106	106	
PCB-95	28:43	43760	1.55	0.8033	0.9606	0.8729	0.0101	0.0101	96.06	RQ
PCB-93	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-100 (C93)	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-98	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-102 (C98)	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-88	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-91 (C88)	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-84	29:49	49178	1.72	0.7299	1.080	1.080	0.0111	0.0111	108	
PCB-89	30:18	42477	1.55	0.7798	0.9571	0.8728	0.0104	0.0104	95.71	RQM
PCB-121	30:42	82240	1.51	1.2964	1.016	1.016	0.006246	0.006246	102	Ma
PCB-92	31:05	56541	1.55	0.8546	1.060	1.060	0.009475	0.009475	106	M
PCB-90	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-101 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-113 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-83	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-99 (C83)	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-112	32:21	85722	1.55	1.4111	1.055	0.9734	0.005738	0.005738	105	RQ
PCB-86	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-87 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-97 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-109 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-119 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-125 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-85	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-116 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-117 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-110	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-115 (C110)	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-82	33:57	52864	1.63	0.8303	1.020	1.020	0.009751	0.009751	102	
PCB-111	34:21	83431	1.58	1.2125	1.103	1.103	0.006678	0.006678	110	
PCB-120	34:48	91670	1.54	1.4762	0.995	0.995	0.005485	0.005485	99.50	
PCB-108	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-124 (C108)	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-107	36:11	93301	1.55	1.2121	0.9198	0.8369	0.0363	0.0363	91.98	RQM
PCB-123	36:17	103937	1.41	1.0722	1.068	1.068	0.0411	0.0411	107	
PCB-106	36:25	96794	1.78	1.0839	0.9709	0.9709	0.0406	0.0406	97.09	
PCB-118	36:37	118026	1.56	1.2055	1.047	1.047	0.0364	0.0364	105	
PCB-122	36:58	94688	1.40	0.9567	1.076	1.076	0.0459	0.0459	108	
PCB-114	37:09	107408	1.50	1.0842	1.021	1.021	0.0375	0.0375	102	
PCB-105	37:47	107441	1.55	1.1879	0.994	0.994	0.0368	0.0368	99.37	M
PCB-127	39:16	108872	1.40	1.1394	1.039	1.039	0.0386	0.0386	104	
PCB-126	40:53	95794	1.52	1.0976	0.997	0.997	0.0438	0.0438	99.67	
S Total Hexachlorobiphenyls					41.7	40.8	0.0349	0.0349		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:25	5566942	1.28	1.0851	101.1	101.1	0.0241	0.0241	101	
* PCB-138L	39:43	6529803	1.28		100.0	100.0				
\$ PCB-159L	41:57	4316259	1.29	0.5118	101.1	101.1	1.003	1.003	101	
D PCB-167L	42:43	8343026	1.29	1.2572	101.6	101.6	0.5188	0.5188	102	
D PCB-156L	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-157L (C156L)	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-169L	47:06	8243482	1.29	1.2439	101.5	101.5	0.5244	0.5244	101	
PCB-155	31:26	53749	1.13	0.9444	1.022	1.022	0.004679	0.004679	102	
PCB-152	31:37	49815	1.24	0.9895	1.006	0.9043	0.004466	0.004466	101	RQ
PCB-150	31:48	56112	1.22	1.0132	0.995	0.995	0.004361	0.004361	99.48	
PCB-136	32:10	55716	1.33	1.0116	0.9894	0.9894	0.004369	0.004369	98.94	
PCB-145	32:27	51222	1.41	0.9685	0.9501	0.9501	0.004563	0.004563	95.01	
PCB-148	33:58	40368	1.18	0.7603	0.9538	0.9538	0.005813	0.005813	95.38	
PCB-135	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-151 (C135)	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-154	34:48	42143	1.24	0.8129	1.034	0.9313	0.005436	0.005436	103	RQ
PCB-144	35:07	38749	1.24	0.7852	0.998	0.8864	0.005628	0.005628	99.83	RQ
PCB-147	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-149 (C147)	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-134	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-143 (C134)	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-139	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-140 (C139)	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-131	36:17	60287	1.20	0.7503	0.9840	0.9840	0.0587	0.0587	98.40	M
PCB-142	36:25	58658	1.27	0.7507	0.9569	0.9569	0.0587	0.0587	95.69	M
PCB-132	36:43	59523	1.17	0.7489	0.9733	0.9733	0.0588	0.0588	97.33	
PCB-133	37:14	65331	1.24	0.8096	1.082	0.9883	0.0544	0.0544	108	RQ
PCB-165	37:39	89004	1.28	1.0247	1.064	1.064	0.0430	0.0430	106	
PCB-146	37:54	73574	1.24	0.9637	1.018	0.9350	0.0457	0.0457	102	RQ
PCB-161	38:02	95121	1.43	1.1288	1.032	1.032	0.0390	0.0390	103	
PCB-153	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-168 (C153)	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-141	38:42	74724	1.27	0.8755	1.045	1.045	0.0503	0.0503	105	
PCB-130	39:07	59703	1.20	0.7051	1.037	1.037	0.0625	0.0625	104	
PCB-137	39:20	55300	1.24	0.7767	0.9717	0.8720	0.0567	0.0567	97.17	RQ
PCB-164	39:28	73348	1.24	1.0382	0.9897	0.8652	0.0424	0.0424	98.97	RQ
PCB-129	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-138 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-160 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-163 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-158	40:08	109591	1.25	1.3110	1.024	1.024	0.0336	0.0336	102	
PCB-128	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-166 (C128)	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-159	41:58	114847	1.24	1.3856	1.015	1.015	0.0318	0.0318	102	M
PCB-162	42:16	106735	1.27	1.2571	1.040	1.040	0.0350	0.0350	104	M
PCB-167	42:45	90866	1.16	1.1159	0.9760	0.9760	0.0327	0.0327	97.60	
PCB-156	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-157 (C156)	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-169	47:07	91425	1.25	1.1628	0.9538	0.9538	0.0326	0.0326	95.38	M
S Total Heptachlorobiphenyls					24.4	24.1	0.001933	0.001933		RQ
D PCB-188L	37:08	6585200	1.07	1.3133	98.7	98.7	0.0435	0.0435	98.67	
* PCB-180L	45:16	5081608	1.08		100.0	100.0				
D PCB-170L	46:31	4277780	1.09	0.8362	100.7	100.7	0.0683	0.0683	101	
D PCB-189L	49:38	10353644	1.06	1.4414	100.4	100.4	0.5572	0.5572	100	
PCB-188	37:10	77076	1.06	1.1350	1.031	1.031	0.000350	0.000350	103	
PCB-179	37:29	77102	1.15	1.4276	0.994	0.994	0.000341	0.000341	99.44	
PCB-184	38:01	74149	1.14	1.3672	0.999	0.999	0.000356	0.000356	99.85	
PCB-176	38:23	62562	1.03	1.2331	0.9341	0.9341	0.000395	0.000395	93.41	
PCB-186	38:50	75669	0.91	1.4737	0.9453	0.9453	0.000331	0.000331	94.53	
PCB-178	40:12	49156	0.92	0.8946	1.012	1.012	0.000545	0.000545	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:50	45492	1.05	0.9524	0.9703	0.8794	0.000512	0.000512	97.03	RQ
PCB-187	41:06	60936	1.05	1.1018	1.018	1.018	0.000442	0.000442	102	
PCB-182	41:19	48192	0.91	0.9247	0.9595	0.9595	0.000527	0.000527	95.95	
PCB-183	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-185 (C183)	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-174	41:57	42648	1.05	0.9642	0.8858	0.8144	0.000505	0.000505	88.58	RQ
PCB-177	42:23	53407	1.09	0.9773	1.006	1.006	0.000499	0.000499	101	M
PCB-181	42:47	55606	1.08	0.9505	1.077	1.077	0.000513	0.000513	108	
PCB-171	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-173 (C171)	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-172	44:38	47193	1.21	0.8519	1.020	1.020	0.000572	0.000572	102	
PCB-192	44:54	75123	0.92	1.3459	1.028	1.028	0.000362	0.000362	103	
PCB-180	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-193 (C180)	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-191	45:39	72972	1.13	1.2891	1.042	1.042	0.000378	0.000378	104	
PCB-170	46:34	51767	1.18	1.1865	1.020	1.020	0.000530	0.000530	102	M
PCB-190	47:04	74583	1.09	1.3322	1.031	1.031	0.000366	0.000366	103	
PCB-189	49:39	97896	0.98	0.9633	0.9815	0.9815	0.0316	0.0316	98.15	
S Total Octachlorobiphenyls					12.1	11.7	0.0159	0.0159		RQ
D PCB-202L	42:30	5103331	0.90	0.9818	102.3	102.3	0.0151	0.0151	102	
* PCB-194L	51:44	7154788	0.90		100.0	100.0				
D PCB-205L	52:13	8466946	0.90	1.1786	100.4	100.4	0.0728	0.0728	100	
PCB-202	42:31	51069	0.90	1.0359	0.9661	0.9661	0.0114	0.0114	96.61	
PCB-201	43:26	47236	0.89	0.9754	1.018	0.9490	0.0122	0.0122	102	RQ
PCB-204	44:07	49880	0.89	1.0485	1.000	0.9322	0.0113	0.0113	100	RQ
PCB-197	44:20	55016	0.89	1.1458	1.014	0.9409	0.0103	0.0103	101	RQ
PCB-200	44:27	43036	0.89	1.0072	1.032	0.8373	0.0118	0.0118	103	RQ
PCB-198	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-199 (C198)	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-196	47:54	41271	0.98	0.7806	1.036	1.036	0.0152	0.0152	104	
PCB-203	48:06	45126	0.88	0.9292	0.9516	0.9516	0.0128	0.0128	95.16	
PCB-195	49:24	74468	0.94	0.8263	1.064	1.064	0.0294	0.0294	106	M
PCB-194	51:47	84593	0.85	0.9735	1.026	1.026	0.0249	0.0249	103	
PCB-205	52:13	94183	1.01	1.0878	1.023	1.023	0.0223	0.0223	102	
S Total Nonachlorobiphenyls					3.061	3.061	0.1200	0.1200		
D PCB-208L	49:10	6757986	0.82	0.9576	98.6	98.6	0.2730	0.2730	98.64	
D PCB-206L	53:58	4908757	0.82	0.6947	98.8	98.8	0.3764	0.3764	98.76	
PCB-208	49:12	79659	0.66	1.1374	1.036	1.036	0.1134	0.1134	104	M
PCB-207	50:06	79832	0.84	1.3756	0.995	0.995	0.1099	0.1099	99.49	M
PCB-206	53:59	67457	0.72	1.3346	1.030	1.030	0.1367	0.1367	103	M
D PCB-209L	55:36	4729024	0.71	0.6669	99.1	99.1	0.0486	0.0486	99.11	
DCB Decachlorobiphenyl	55:37	51840	0.71	1.1004	0.996	0.996	0.005241	0.005241	99.62	
S Polychlorinated biphenyls, Total					205.1	0.996	0.0361	0.0361		RQ

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L11668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-002
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	10185623	4114359	3055	7637	1347		
202.0766	11:38	11:36	2	0.726	3226307	1292090	1581	3952	817	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10059938	3392951	3055	7637	1111		
202.0766	13:47	13:46	2	0.861	3106539	1057643	1581	3952	669	3.24(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	127299	53175	138	345	385		
190.0363	11:39	11:37	2	1.001	40354	16594	127	317	131	3.15(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	113903	37719	138	345	273		
190.0363	13:38	13:36	2	0.989	38234	12805	127	317	101	2.98(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	117382	39238	138	345	284		
190.0363	13:48	13:47	2	1.001	38069	13280	127	317	105	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:03	14:02	2	0.878	3363111	1081560	442	1105	2447		
236.0376	14:03	14:02	2	0.878	2079655	668618	139	347	4810	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5166195	1508927	442	1105	3414		
236.0376	16:01	15:59	2		3170104	930993	139	347	6698	1.63(1.33-1.79)	
PCB-15L											
234.0406	19:56	19:54	1	1.245	5465286	1281682	442	1105	2900		
236.0376	19:56	19:54	1	1.245	3354075	798086	139	347	5742	1.63(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.001	44768	13793	32	80	431		
223.9974	14:04	14:02	2	1.001	26513	9304	20	50	465	1.69(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.013	55621	16009	32	80	500		
223.9974	14:13	14:13	1	1.012	35318	11482	20	50	574	1.57(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	2	1.140	61323	16770	32	80	524		
223.9974	16:01	16:00	2	1.140	40446	12242	20	50	612	1.52(1.33-1.79)	
PCB-7											
222.0003	16:12	16:10	2	1.153	64352	16897	32	80	528		RQ
	Empc Correction				55283	16322	32	80	510		
223.9974	16:12	16:10	2	1.153	35438	10463	20	50	523	1.82(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.169	70638	19049	32	80	595		RQM
	Empc Correction				59487	15086	32	80	471		M
223.9974	16:26	16:25	1	1.169	38133	9671	20	50	484	1.85(1.33-1.79)	M
PCB-5											
222.0003	16:45	16:43	2	1.192	59254	17650	32	80	552		
223.9974	16:44	16:43	1	1.191	33819	9539	20	50	477	1.75(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.200	65520	17964	32	80	561		
223.9974	16:52	16:50	2	1.200	43000	10560	20	50	528	1.52(1.33-1.79)	
PCB-14											
222.0003	18:30	18:28	2	0.928	60089	14343	32	80	448		
223.9974	18:29	18:28	2	0.927	35617	8039	20	50	402	1.69(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	1	0.970	54062	12799	32	80	400		RQ
	Empc Correction				46121	10849	32	80	339		
223.9974	19:20	19:18	2	0.970	29565	6955	20	50	348	1.83(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	1	1.001	68996	15389	32	80	481		
223.9974	19:57	19:55	1	1.001	44908	10538	20	50	527	1.54(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	2	0.841	1745587	480479	407	1017	1181		
269.9986	17:09	17:08	2	0.841	1678449	464429	1068	2670	435	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2778431	679560	407	1017	1670		
269.9986	20:24	20:23	1		2517260	621065	1068	2670	582	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:38	2		7699706	1781645	922	2305	1932		
269.9986	22:40	22:38	2		7400655	1706805	609	1522	2803	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:55	2	1.189	6839473	1362148	922	2305	1477		
269.9986	26:57	26:55	2	1.189	6416325	1278780	609	1522	2100	1.07(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.001	19803	5709	51	127	112		
257.9584	17:10	17:09	2	1.001	18128	5203	1	2	5203	1.09(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.133	21795	6099	51	127	120		
257.9584	19:27	19:26	1	1.133	21257	5516	1	2	5516	1.03(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	1	1.146	32473	8025	51	127	157		
257.9584	19:41	19:39	2	1.147	29300	7998	1	2	7998	1.11(0.88-1.20)	
PCB-24											
255.9613	19:48	19:46	2	1.154	28086	8423	51	127	165		
257.9584	19:48	19:46	2	1.154	27453	6886	1	2	6886	1.02(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.160	20482	4992	51	127	98		RQ
	Empc Correction				16556	3825	51	127	75		
257.9584	19:54	19:53	1	1.160	15920	3678	1	2	3678	1.29(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	1	1.190	30706	7724	51	127	151		
257.9584	20:25	20:23	1	1.190	29521	7333	1	2	7333	1.04(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.264	73408	18127	359	897	50		
257.9584	21:41	21:39	2	1.264	72414	17630	202	505	87	1.01(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	2	1.273	78250	19661	359	897	55		
257.9584	21:50	21:48	2	1.273	69902	16890	202	505	84	1.12(0.88-1.20)	
PCB-26											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-25											
255.9613	22:22	22:21	2	0.830	81603	19501	359	897	54		
257.9584	22:22	22:21	2	0.830	79266	17000	202	505	84	1.03(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	2	0.842	85080	19454	359	897	54		
257.9584	22:41	22:40	1	0.841	75761	16478	202	505	82	1.12(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-21											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:37	23:35	2	0.876	83341	19521	359	897	54		
257.9584	23:37	23:35	2	0.876	81035	21048	202	505	104	1.03(0.88-1.20)	
PCB-36											
255.9613	25:11	25:09	2	0.934	76109	13923	359	897	39		
257.9584	25:10	25:09	2	0.934	74581	13287	202	505	66	1.02(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	79422	15068	359	897	42		
257.9584	25:33	25:30	2	0.948	71407	14943	202	505	74	1.11(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	2	0.969	73953	16064	359	897	45		M
257.9584	26:06	26:05	2	0.969	68696	14199	202	505	70	1.08(0.88-1.20)	M
PCB-35											
255.9613	26:35	26:32	2	0.986	74831	15734	359	897	44		
257.9584	26:35	26:32	3	0.987	67911	13442	202	505	67	1.10(0.88-1.20)	
PCB-37											
255.9613	26:59	26:57	2	1.001	77812	14227	359	897	40		
257.9584	26:58	26:57	1	1.000	70673	12845	202	505	64	1.10(0.88-1.20)	
PCB-54L											
301.9626	20:14	20:12	2	0.816	1343864	330880	86	215	3847		M
303.9597	20:14	20:12	2	0.816	1667087	407334	64	160	6365	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	1		3433693	753064	382	955	1971		
303.9597	24:47	24:46	1		4280870	937822	526	1315	1783	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:42	33:41	2	1.360	4162808	791085	382	955	2071		
303.9597	33:42	33:41	2	1.360	5215218	1012994	526	1315	1926	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:14	2	1.383	4447334	839826	382	955	2198		
303.9597	34:16	34:14	2	1.383	5505263	1024968	526	1315	1949	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											M
289.9224	20:15	20:13	2	1.000	16803	3748	5	12	750		M
291.9194	20:15	20:13	2	1.000	23091	6390	13	32	492	0.73(0.65-0.89)	
PCB-50											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-45											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-51 (C45)											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.156	30445	7099	215	537	33		
291.9194	23:23	23:22	1	1.156	35380	6945	513	1282	14	0.86(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.226	37002	9019	215	537	42		
291.9194	24:49	24:47	2	1.226	50731	13189	513	1282	26	0.73(0.65-0.89)	
PCB-43											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-73 (C43)											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-49											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-69 (C49)											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-48											
289.9224	25:36	25:33	2	1.265	36336	8437	215	537	39		
291.9194	25:35	25:33	2	1.264	47614	11115	513	1282	22	0.76(0.65-0.89)	
PCB-44											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.301	36624	8441	215	537	39		
291.9194	26:20	26:18	2	1.302	42786	9700	513	1282	19	0.86(0.65-0.89)	
PCB-40											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-64											
289.9224	27:04	27:01	3	1.338	51698	10058	215	537	47		M
291.9194	27:03	27:01	2	1.337	69628	14722	513	1282	29	0.74(0.65-0.89)	M
PCB-72											
289.9224	27:53	27:51	2	0.827	46842	10272	215	537	48		
291.9194	27:53	27:51	2	0.827	55958	12344	513	1282	24	0.84(0.65-0.89)	
PCB-68											
289.9224	28:11	28:09	2	0.836	53520	9811	215	537	46		
291.9194	28:11	28:09	2	0.836	67119	11442	513	1282	22	0.80(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	2	0.848	49266	11410	215	537	53		
291.9194	28:35	28:34	2	0.848	58572	12049	513	1282	23	0.84(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	2	0.855	54694	11437	215	537	53		
291.9194	28:50	28:48	2	0.855	63008	13249	513	1282	26	0.87(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	63632	10795	215	537	50		
291.9194	28:59	28:58	1	0.860	72371	15591	513	1282	30	0.88(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	2	0.868	50749	9795	215	537	46		
291.9194	29:15	29:14	2	0.868	62923	11830	513	1282	23	0.81(0.65-0.89)	
PCB-61											
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		M
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-74 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-76 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-66											RQ
289.9224	29:55	29:53	2	0.888	57060	12382	215	537	58		
	Empc Correction				47743	9165	215	537	43		
291.9194	29:55	29:53	2	0.888	62005	11903	513	1282	23	0.92(0.65-0.89)	
PCB-55											
289.9224	30:05	30:03	2	0.893	53977	11655	215	537	54		
291.9194	30:05	30:03	2	0.893	65535	14489	513	1282	28	0.82(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	2	0.907	49377	11178	215	537	52		
291.9194	30:36	30:33	2	0.908	63226	13322	513	1282	26	0.78(0.65-0.89)	
PCB-60											
289.9224	30:49	30:46	2	0.914	47903	9501	215	537	44		
291.9194	30:48	30:46	2	0.914	72466	13792	513	1282	27	0.66(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.926	58022	11679	215	537	54		
291.9194	31:13	31:11	2	0.926	70070	13568	513	1282	26	0.83(0.65-0.89)	
PCB-79											
289.9224	32:45	32:42	2	0.972	62223	9934	215	537	46		
291.9194	32:44	32:42	2	0.971	85431	14322	513	1282	28	0.73(0.65-0.89)	
PCB-78											M
289.9224	33:18	33:15	2	0.988	49349	8800	215	537	41		M
291.9194	33:18	33:15	2	0.988	66291	11725	513	1282	23	0.74(0.65-0.89)	M
PCB-81											M
289.9224	33:43	33:42	1	1.000	41953	8123	215	537	38		M
291.9194	33:43	33:42	1	1.000	60832	12136	513	1282	24	0.69(0.65-0.89)	
PCB-77											
289.9224	34:18	34:16	2	1.001	48709	10542	215	537	49		
291.9194	34:18	34:16	2	1.001	62254	11494	513	1282	22	0.78(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:42	2	0.813	3852824	852423	51	127	16714		
339.9178	25:44	25:42	2	0.813	2387924	530853	21	52	25279	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:37	2		3129961	628656	51	127	12327		
339.9178	31:39	31:37	2		1946695	384780	21	52	18323	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:17	36:15	2	1.146	5533213	1071392	6223	15557	172		
339.9178	36:17	36:15	2	1.146	3540538	685925	3501	8752	196	1.56(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:36	36:34	1	1.156	5725256	1083224	6223	15557	174		
339.9178	36:36	36:34	2	1.157	3627976	684723	3501	8752	196	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	5950451	1164285	6223	15557	187		
339.9178	37:07	37:06	1	1.173	3754962	740475	3501	8752	212	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:47	37:45	2	1.194	5569980	1083992	6223	15557	174		
339.9178	37:47	37:45	2	1.194	3531488	687514	3501	8752	196	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6022915	1165835	6223	15557	187		
339.9178	39:15	39:14	1		3814288	729954	3501	8752	208	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.291	5379062	991895	6223	15557	159		
339.9178	40:51	40:50	1	1.291	3377001	621408	3501	8752	177	1.59(1.32-1.78)	
PCB-104											
325.8804	25:46	25:44	2	1.001	35169	8946	41	102	218		M
327.8775	25:46	25:44	2	1.001	26359	6216	4	10	1554	1.33(1.32-1.78)	M
PCB-96											
325.8804	26:08	26:06	2	1.015	38377	8336	41	102	203		
327.8775	26:07	26:06	1	1.015	25003	6214	4	10	1554	1.53(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	32564	6777	41	102	165		
327.8775	28:04	28:02	2	1.091	22046	4620	4	10	1155	1.48(1.32-1.78)	
PCB-94											
325.8804	28:18	28:16	2	1.099	31909	7425	41	102	181		
327.8775	28:17	28:16	1	1.099	18761	4368	4	10	1092	1.70(1.32-1.78)	
PCB-95											
325.8804	28:43	28:42	1	1.116	30994	5520	41	102	135		RQ
	Empc Correction				26599	6644	41	102	162		
327.8775	28:44	28:42	2	1.116	17161	4287	4	10	1072	1.81(1.32-1.78)	
PCB-93											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-98											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-88											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165	1.60(1.32-1.78)	
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165		
PCB-91 (C88)											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165	1.60(1.32-1.78)	
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165		
PCB-84											
325.8804	29:49	29:47	2	1.159	31120	5809	41	102	142	1.72(1.32-1.78)	
327.8775	29:49	29:47	2	1.159	18058	3646	4	10	912		
PCB-89											
325.8804	30:18	30:16	2	1.178	29923	6017	41	102	147	1.80(1.32-1.78)	RQM
Empc Correction					25819	4512	41	102	110		
327.8775	30:18	30:16	2	1.178	16658	2911	4	10	728		M
PCB-121											
325.8804	30:42	30:41	1	1.193	49412	10452	41	102	255	1.51(1.32-1.78)	Ma
327.8775	30:43	30:41	2	1.194	32828	5809	4	10	1452		M
PCB-92											
325.8804	31:05	31:03	2	0.857	34399	7131	41	102	174	1.55(1.32-1.78)	M
327.8775	31:06	31:03	2	0.857	22142	5081	4	10	1270		
PCB-90											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-101 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-113 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412	1.82(1.32-1.78)	RQ
Empc Correction					96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224		
PCB-83											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197	1.83(1.32-1.78)	RQM
Empc Correction					55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310		M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197	1.83(1.32-1.78)	RQM
Empc Correction					55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310		M
PCB-112											
325.8804	32:21	32:20	1	1.257	52106	10914	41	102	266	1.28(1.32-1.78)	RQ
327.8775	32:21	32:20	1	1.257	40788	7251	4	10	1813		
Empc Correction					33616	7041	4	10	1760		
PCB-86											
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571	1.51(1.32-1.78)	M
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-87 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-110											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-82											
325.8804	33:57	33:55	2	1.319	32782	6408	41	102	156		
327.8775	33:57	33:55	2	1.319	20082	3679	4	10	920	1.63(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	51140	10636	41	102	259		
327.8775	34:21	34:19	2	1.335	32291	6561	4	10	1640	1.58(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	2	1.353	55527	10085	41	102	246		
327.8775	34:48	34:47	2	1.353	36143	7513	4	10	1878	1.54(1.32-1.78)	
PCB-108											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-107											RQM
325.8804	36:11	36:09	2	1.406	65956	14147	158	395	90		M
	Empc Correction				56712	10629	158	395	67		
327.8775	36:11	36:09	2	1.406	36589	6858	152	380	45	1.80(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	60802	12937	158	395	82		
327.8775	36:17	36:16	1	1.000	43135	9086	152	380	60	1.41(1.32-1.78)	
PCB-106											
325.8804	36:25	36:23	1	1.004	61923	12333	158	395	78		
327.8775	36:25	36:23	1	1.004	34871	6580	152	380	43	1.78(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	71873	12997	158	395	82		
327.8775	36:37	36:36	1	1.001	46153	8339	152	380	55	1.56(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	55310	11174	158	395	71		
327.8775	36:58	36:56	1	1.010	39378	7224	152	380	48	1.40(1.32-1.78)	
PCB-114											
325.8804	37:09	37:08	1	1.001	64516	11526	158	395	73		
327.8775	37:09	37:08	1	1.001	42892	8751	152	380	58	1.50(1.32-1.78)	
PCB-105											M
325.8804	37:47	37:46	1	1.000	65351	12605	158	395	80		M
327.8775	37:47	37:46	1	1.000	42090	7618	152	380	50	1.55(1.32-1.78)	M
PCB-127											
325.8804	39:16	39:15	1	1.039	63598	11839	158	395	75		
327.8775	39:16	39:15	1	1.039	45274	8326	152	380	55	1.40(1.32-1.78)	
PCB-126											
325.8804	40:53	40:52	1	1.001	57780	11950	158	395	76		
327.8775	40:53	40:52	1	1.001	38014	7003	152	380	46	1.52(1.32-1.78)	
PCB-155L											
371.8817	31:25	31:23	2	0.791	3126022	636241	61	152	10430		
373.8788	31:25	31:23	2	0.791	2440920	495191	45	112	11004	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		3666551	700789	3131	7827	224		
373.8788	39:43	39:41	2		2863252	550451	134	335	4108	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4316259	836120	3131	7827	267		
373.8788	41:57	41:56	1	0.982	3349296	654941	134	335	4888	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.075	4693699	890630	3131	7827	284		
373.8788	42:43	42:42	1	1.075	3649327	698734	134	335	5214	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-169L											
371.8817	47:06	47:05	1	1.186	4637308	865319	3131	7827	276		
373.8788	47:06	47:05	1	1.186	3606174	663265	134	335	4950	1.29(1.05-1.43)	
PCB-155											
359.8415	31:26	31:25	2	1.001	28498	6679	1	2	6679		
361.8385	31:26	31:25	1	1.000	25251	4509	19	47	237	1.13(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	33160	6809	1	2	6809		RQ
	Empc Correction				27576	6414	1	2	6414		
361.8385	31:38	31:36	2	1.007	22239	5173	19	47	272	1.49(1.05-1.43)	
PCB-150											
359.8415	31:48	31:46	2	1.012	30792	6012	1	2	6012		
361.8385	31:48	31:46	2	1.012	25320	4810	19	47	253	1.22(1.05-1.43)	
PCB-136											
359.8415	32:10	32:08	2	1.024	31827	6576	1	2	6576		
361.8385	32:09	32:08	2	1.024	23889	5366	19	47	282	1.33(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	2	1.033	29992	5625	1	2	5625		
361.8385	32:27	32:25	2	1.033	21230	4131	19	47	217	1.41(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	2	1.081	21867	4602	1	2	4602		
361.8385	33:58	33:57	1	1.081	18501	3706	19	47	195	1.18(1.05-1.43)	
PCB-135											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-154											
359.8415	34:48	34:47	1	1.108	27976	5637	1	2	5637		RQ
	Empc Correction				23329	4997	1	2	4997		
361.8385	34:49	34:47	2	1.108	18814	4030	19	47	212	1.49(1.05-1.43)	
PCB-144											
359.8415	35:07	35:06	1	1.118	26342	5515	1	2	5515		RQ
	Empc Correction				21450	4607	1	2	4607		
361.8385	35:07	35:06	1	1.118	17299	3716	19	47	196	1.52(1.05-1.43)	
PCB-147											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-134											
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											M
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M
PCB-139											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-131											M
359.8415	36:17	36:15	2	1.155	32830	6849	142	355	48		
361.8385	36:16	36:15	0	1.154	27457	5101	90	225	57	1.20(1.05-1.43)	M
PCB-142											M
359.8415	36:25	36:24	0	1.159	32793	5711	142	355	40		
361.8385	36:26	36:24	2	1.160	25865	4667	90	225	52	1.27(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.169	32080	5412	142	355	38		
361.8385	36:43	36:43	0	1.169	27443	4769	90	225	53	1.17(1.05-1.43)	
PCB-133											RQ
359.8415	37:14	37:14	0	1.185	42390	7904	142	355	56		
Empc Correction											
361.8385	37:15	37:14	1	1.186	29166	6863	90	225	76	1.45(1.05-1.43)	
PCB-165											
359.8415	37:39	37:37	2	0.881	49920	10011	142	355	71		
361.8385	37:38	37:37	1	0.881	39084	7597	90	225	84	1.28(1.05-1.43)	
PCB-146											RQ
359.8415	37:54	37:52	1	0.887	40729	7935	142	355	56		
361.8385	37:53	37:52	0	0.887	39349	7505	90	225	83	1.04(1.05-1.43)	
Empc Correction											
					32845	6399	90	225	71		
PCB-161											
359.8415	38:02	38:00	2	0.890	55964	10549	142	355	74		
361.8385	38:01	38:00	1	0.890	39157	7690	90	225	85	1.43(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-141											
359.8415	38:42	38:41	1	0.906	41769	7157	142	355	50		
361.8385	38:41	38:41	0	0.906	32955	5667	90	225	63	1.27(1.05-1.43)	
PCB-130											
359.8415	39:07	39:05	2	0.916	32553	7234	142	355	51		
361.8385	39:07	39:05	2	0.916	27150	5387	90	225	60	1.20(1.05-1.43)	
PCB-137											RQ
359.8415	39:20	39:18	3	0.921	30613	5935	142	355	42		
361.8385	39:19	39:18	1	0.920	31013	5495	90	225	61	0.99(1.05-1.43)	
Empc Correction											
					24687	4786	90	225	53		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											RQ
359.8415	39:28	39:26	2	0.924	51162	9620	142	355	68		
	Empc Correction				40603	9340	142	355	66		
361.8385	39:27	39:26	1	0.923	32745	7533	90	225	84	1.56(1.05-1.43)	
PCB-129											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-138 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-160 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-158											
359.8415	40:08	40:07	1	0.939	60854	10219	142	355	72		
361.8385	40:08	40:07	1	0.939	48737	9380	90	225	104	1.25(1.05-1.43)	
PCB-128											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-166 (C128)											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-159											M
359.8415	41:58	41:58	0	0.982	63675	12341	142	355	87		
361.8385	41:59	41:58	1	0.983	51172	10428	90	225	116	1.24(1.05-1.43)	M
PCB-162											M
359.8415	42:16	42:15	0	0.989	59673	10121	142	355	71		M
361.8385	42:16	42:15	1	0.990	47062	8194	90	225	91	1.27(1.05-1.43)	M
PCB-167											
359.8415	42:45	42:44	1	1.001	48825	9243	142	355	65		
361.8385	42:45	42:44	1	1.001	42041	7816	90	225	87	1.16(1.05-1.43)	
PCB-156											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	50749	9063	142	355	64		M
361.8385	47:07	47:06	0	1.000	40676	6854	90	225	76	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:08	37:07	1	0.820	3401229	645871	161	402	4012	1.07(0.89-1.21)	
407.8398	37:08	37:07	1	0.820	3183971	611997	55	137	11127		
PCB-180L											
405.8428	45:16	45:15	1		2634599	488940	161	402	3037	1.08(0.89-1.21)	
407.8398	45:16	45:15	1		2447009	456329	55	137	8297		
PCB-170L											
405.8428	46:31	46:30	1	1.028	2234132	415870	161	402	2583	1.09(0.89-1.21)	
407.8398	46:31	46:30	1	1.028	2043648	378648	55	137	6885		
PCB-189L											
405.8428	49:38	49:37	1	1.096	5328461	950340	2391	5977	397	1.06(0.89-1.21)	
407.8398	49:38	49:37	1	1.096	5025183	910012	1691	4227	538		
PCB-188											
393.8025	37:10	37:08	1	1.001	39690	7719	1	2	7719	1.06(0.89-1.21)	
395.7995	37:10	37:08	1	1.001	37386	7793	1	2	7793		
PCB-179											
393.8025	37:29	37:28	1	1.010	41308	8819	1	2	8819	1.15(0.89-1.21)	
395.7995	37:29	37:28	1	1.010	35794	7124	1	2	7124		
PCB-184											
393.8025	38:01	38:00	1	1.024	39427	8484	1	2	8484	1.14(0.89-1.21)	
395.7995	38:02	38:00	2	1.024	34722	5943	1	2	5943		
PCB-176											
393.8025	38:23	38:21	2	1.034	31774	5940	1	2	5940	1.03(0.89-1.21)	
395.7995	38:21	38:21	0	1.033	30788	5246	1	2	5246		
PCB-186											
393.8025	38:50	38:48	2	1.046	36094	6995	1	2	6995	0.91(0.89-1.21)	
395.7995	38:49	38:48	1	1.045	39575	8243	1	2	8243		
PCB-178											
393.8025	40:12	40:11	0	1.083	23491	4557	1	2	4557	0.92(0.89-1.21)	
395.7995	40:12	40:11	0	1.083	25665	5138	1	2	5138		
PCB-175											
393.8025	40:50	40:49	0	1.100	23301	4772	1	2	4772	0.87(0.89-1.21)	RQ
395.7995	40:50	40:49	1	1.100	26892	5627	1	2	5627		
	Empc Correction				22191	4544	1	2	4544		
PCB-187											
393.8025	41:06	41:05	1	1.107	31206	6098	1	2	6098	1.05(0.89-1.21)	
395.7995	41:07	41:05	2	1.107	29730	5603	1	2	5603		
PCB-182											
393.8025	41:19	41:18	1	1.113	22957	5076	1	2	5076	0.91(0.89-1.21)	
395.7995	41:19	41:18	1	1.113	25235	4469	1	2	4469		
PCB-183											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											RQ
393.8025	41:57	41:56	1	1.130	25586	6498	1	2	6498		
	Empc Correction				21844	4920	1	2	4920		
395.7995	41:57	41:56	1	1.130	20804	4686	1	2	4686	1.23(0.89-1.21)	
PCB-177											M
393.8025	42:23	42:22	1	1.142	27807	5386	1	2	5386		
395.7995	42:23	42:22	1	1.142	25600	5611	1	2	5611	1.09(0.89-1.21)	M
PCB-181											
393.8025	42:47	42:45	2	1.152	28839	6551	1	2	6551		
395.7995	42:47	42:45	2	1.152	26767	5517	1	2	5517	1.08(0.89-1.21)	
PCB-171											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-173 (C171)											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.900	25813	4966	1	2	4966		
395.7995	44:38	44:37	0	0.899	21380	3770	1	2	3770	1.21(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	35936	6758	1	2	6758		
395.7995	44:55	44:54	1	0.905	39187	7547	1	2	7547	0.92(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	2	0.920	38736	9026	1	2	9026		
395.7995	45:38	45:37	1	0.920	34236	6204	1	2	6204	1.13(0.89-1.21)	
PCB-170											M
393.8025	46:34	46:32	2	0.938	28044	4293	1	2	4293		M
395.7995	46:32	46:32	0	0.938	23723	4161	1	2	4161	1.18(0.89-1.21)	
PCB-190											
393.8025	47:04	47:02	1	0.948	38910	7847	1	2	7847		
395.7995	47:04	47:02	2	0.949	35673	6687	1	2	6687	1.09(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	48363	9044	149	372	61		
395.7995	49:39	49:38	1	1.001	49533	8535	78	195	109	0.98(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2410974	447023	31	77	14420		
441.8008	42:30	42:28	2	0.821	2692357	497606	25	62	19904	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:44	51:43	1		3391392	605680	200	500	3028		
441.8008	51:44	51:43	1		3763396	664861	236	590	2817	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:13	52:11	1	1.009	4007068	750604	200	500	3753		
441.8008	52:13	52:11	1	1.009	4459878	834655	236	590	3537	0.90(0.76-1.02)	
PCB-202											
427.7635	42:31	42:29	2	1.001	24187	5182	25	62	207		
429.7606	42:31	42:29	1	1.000	26882	4715	20	50	236	0.90(0.76-1.02)	
PCB-201											
427.7635	43:26	43:25	1	1.022	25699	5628	25	62	225		RQ
	Empc Correction				22243	4728	25	62	189		
429.7606	43:26	43:25	1	1.022	24993	5313	20	50	266	1.03(0.76-1.02)	
PCB-204											
427.7635	44:07	44:05	2	1.038	27131	5525	25	62	221		RQ
	Empc Correction				23488	4643	25	62	186		
429.7606	44:08	44:05	3	1.038	26392	5217	20	50	261	1.03(0.76-1.02)	
PCB-197											
427.7635	44:20	44:19	1	1.043	30198	5351	25	62	214		RQ
	Empc Correction				25907	6117	25	62	245		
429.7606	44:19	44:19	0	1.043	29109	6874	20	50	344	1.04(0.76-1.02)	
PCB-200											
427.7635	44:27	44:25	1	1.046	20266	4644	25	62	186		RQ
429.7606	44:27	44:25	1	1.046	32789	5905	20	50	295	0.62(0.76-1.02)	
	Empc Correction				22770	5217	20	50	261		
PCB-198											
427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
PCB-196											
427.7635	47:54	47:53	1	0.917	20422	4369	25	62	175		
429.7606	47:54	47:53	1	0.917	20849	3671	20	50	184	0.98(0.76-1.02)	
PCB-203											
427.7635	48:06	48:05	1	0.921	21176	4041	25	62	162		
429.7606	48:06	48:05	1	0.921	23950	5332	20	50	267	0.88(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.946	36050	6413	75	187	86		M
429.7606	49:24	49:23	1	0.946	38418	7430	79	197	94	0.94(0.76-1.02)	M
PCB-194											
427.7635	51:47	51:44	2	0.992	38886	6674	75	187	89		
429.7606	51:46	51:44	1	0.991	45707	8995	79	197	114	0.85(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	1	1.000	47399	9141	75	187	122		
429.7606	52:15	52:13	2	1.001	46784	7912	79	197	100	1.01(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208L											
473.7648	49:10	49:09	1	0.950	3048337	549815	593	1482	927		
475.7619	49:10	49:09	1	0.950	3709649	691649	736	1840	940	0.82(0.65-0.89)	
PCB-206L											
473.7648	53:58	53:57	1	1.043	2213992	401420	593	1482	677		
475.7619	53:58	53:57	1	1.043	2694765	476469	736	1840	647	0.82(0.65-0.89)	
PCB-208											
461.7246	49:12	49:10	2	1.001	31684	6235	190	475	33		M
463.7216	49:11	49:10	1	1.001	47975	9524	451	1127	21	0.66(0.65-0.89)	M
PCB-207											
461.7246	50:06	50:05	1	1.019	36477	7014	190	475	37		M
463.7216	50:07	50:05	2	1.020	43355	7763	451	1127	17	0.84(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	28296	5591	190	475	29		M
463.7216	53:59	53:58	1	1.000	39161	6640	451	1127	15	0.72(0.65-0.89)	M
PCB-209L											
507.7258	55:36	55:34	2	1.075	1971427	348436	103	257	3383		
509.7229	55:36	55:34	2	1.075	2757597	466485	62	155	7524	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	21443	4804	8	20	601		
497.6826	55:38	55:36	2	1.000	30397	6121	11	27	556	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L11668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

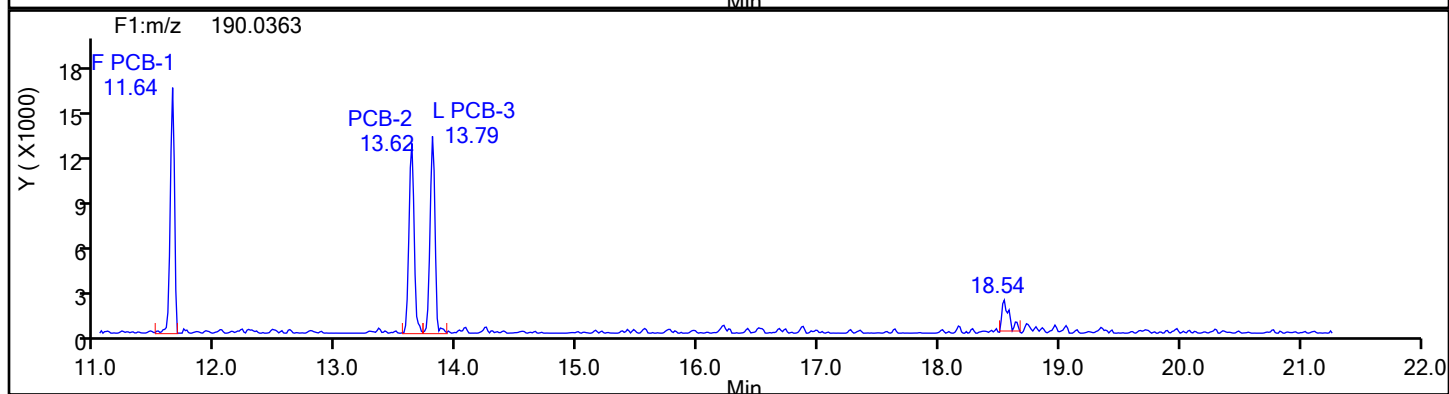
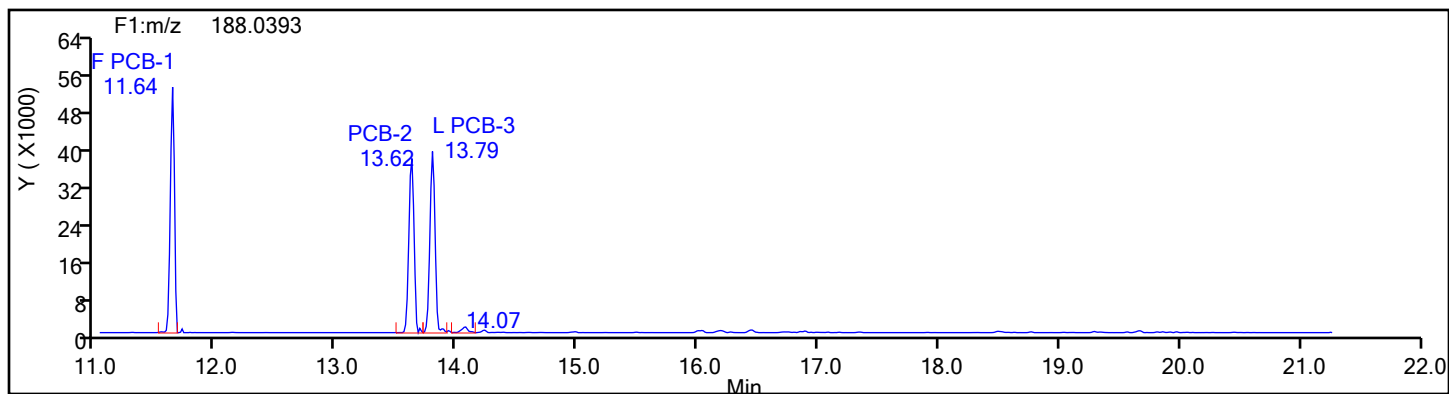
Worklist#: 87130

Sample Line#: 2

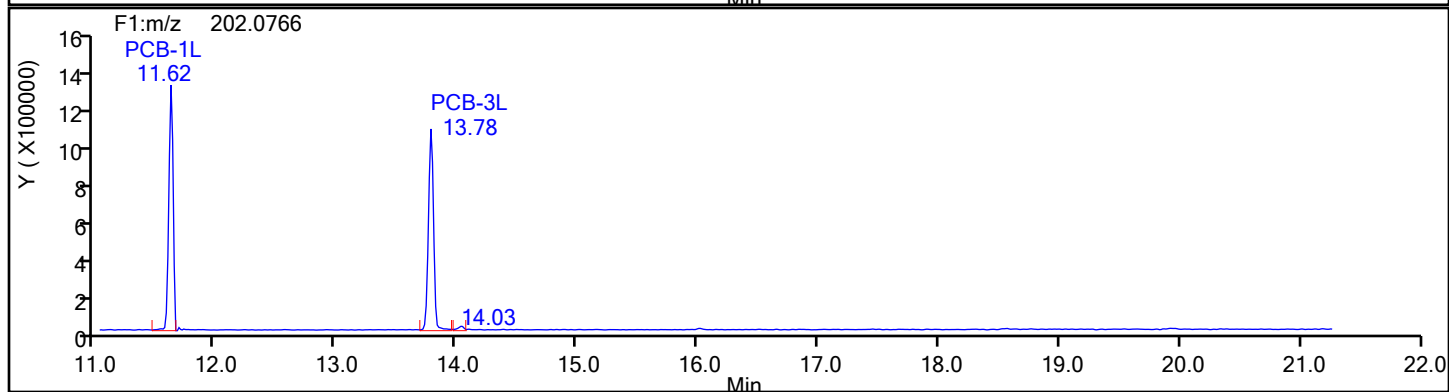
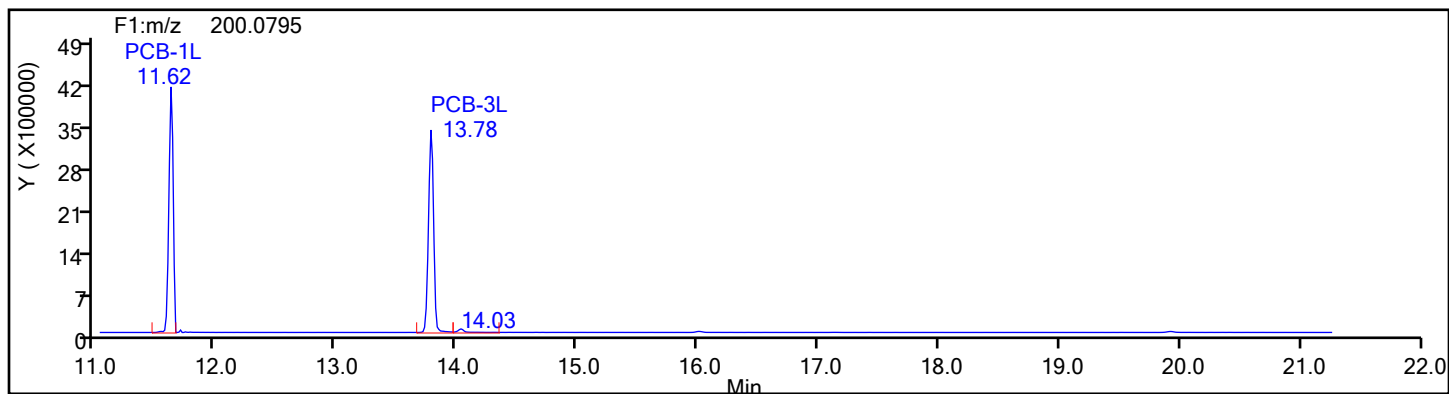
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

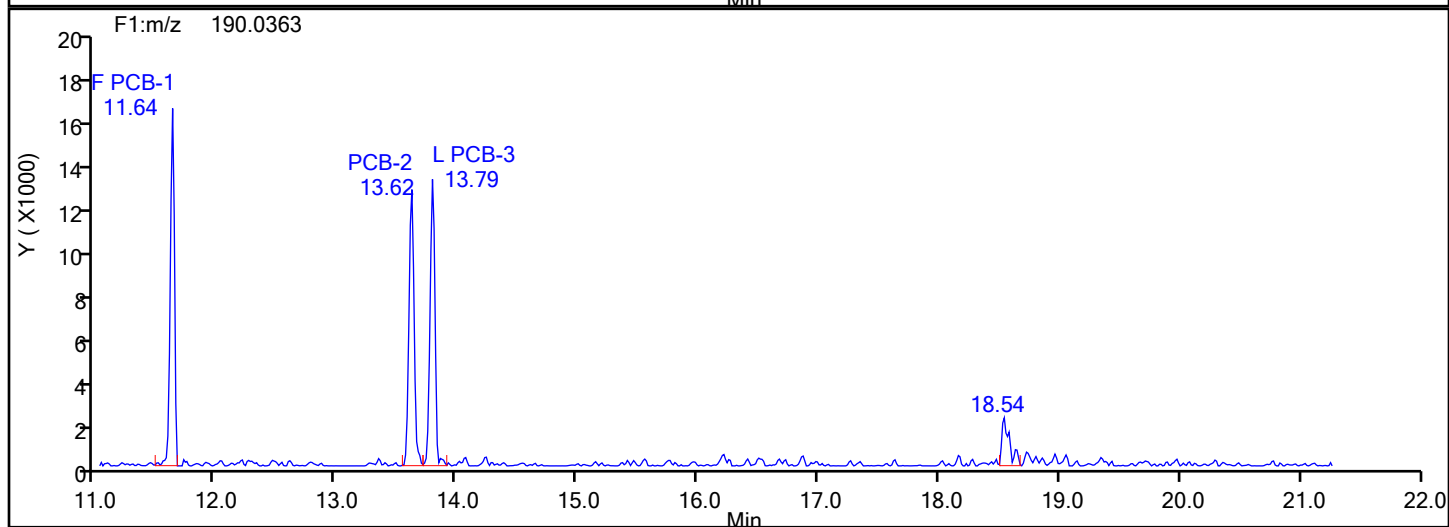
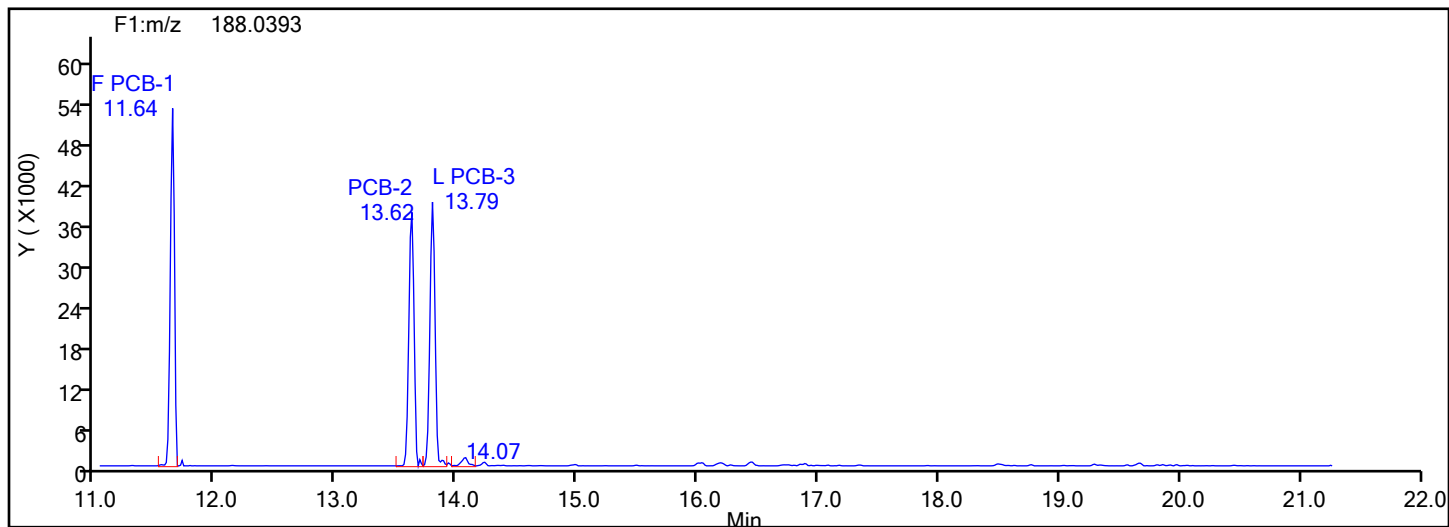
Worklist#: 87130

Sample Line#: 2

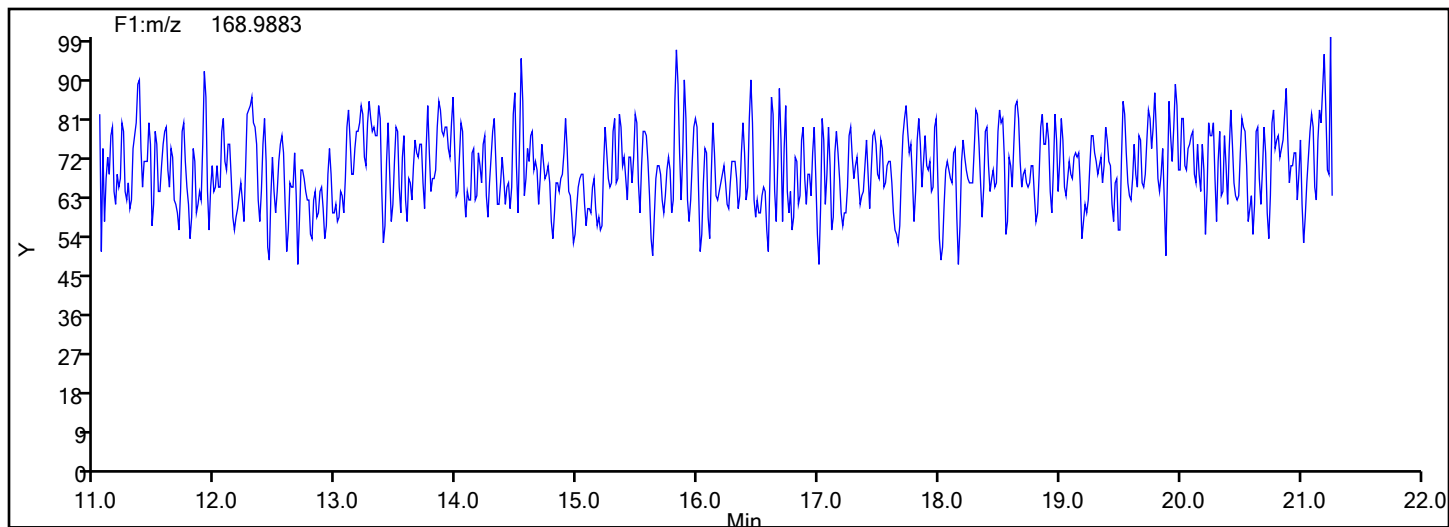
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

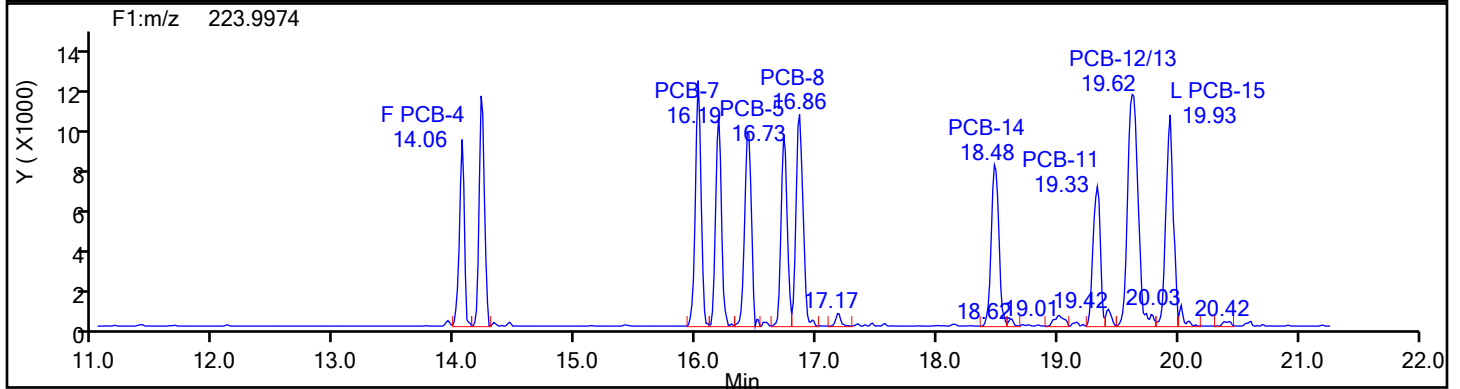
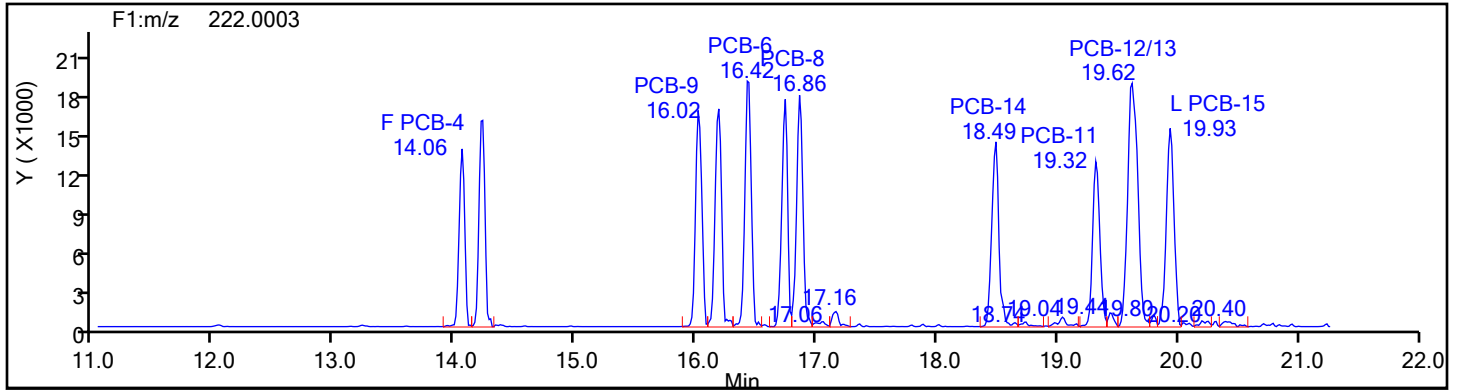
Worklist#: 87130

Sample Line#: 2

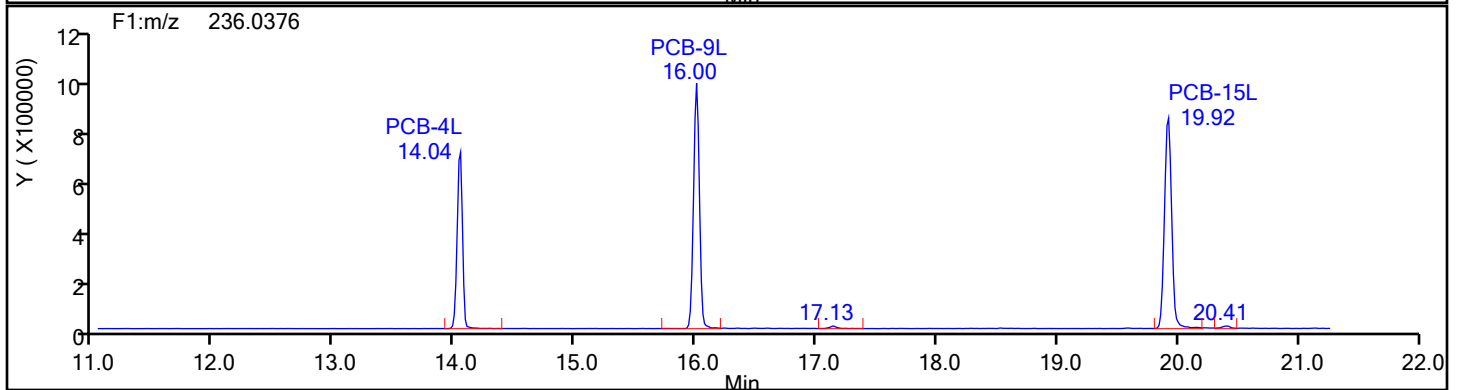
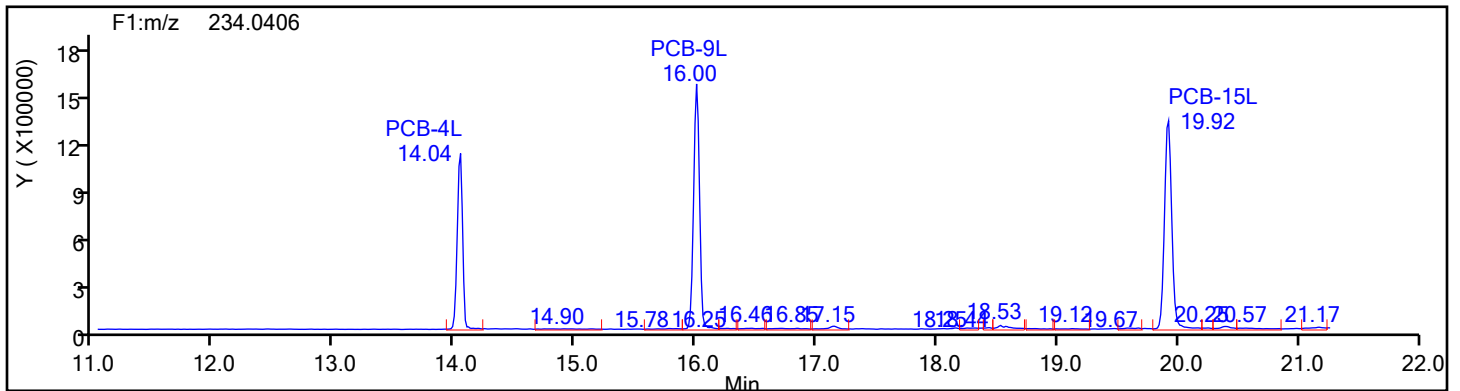
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

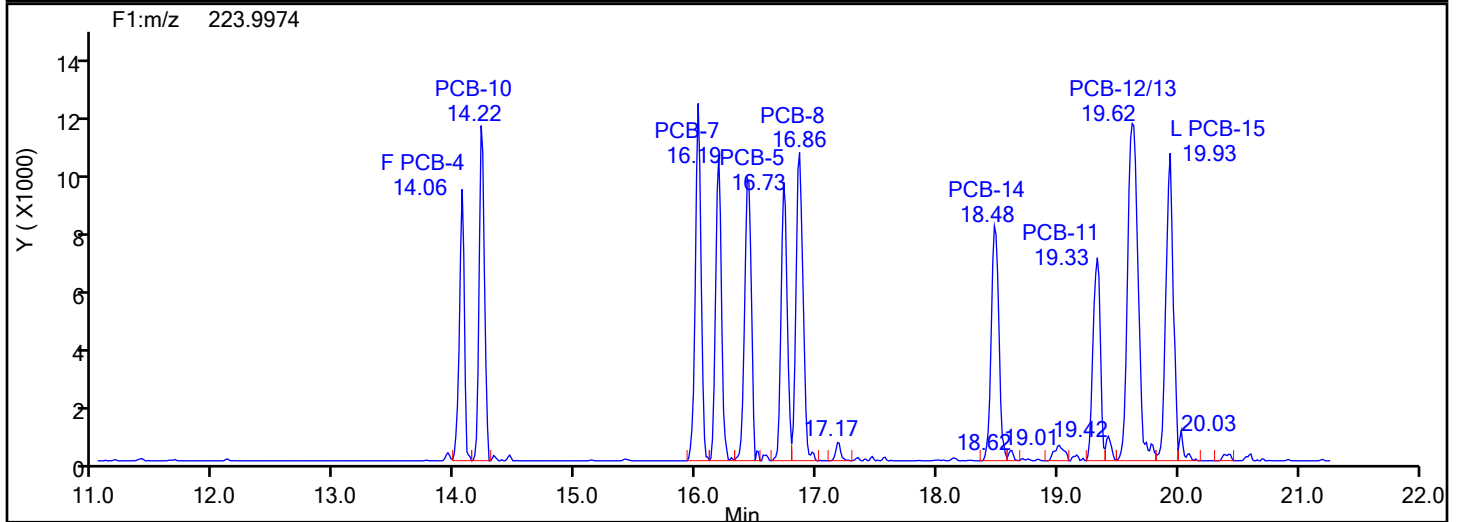
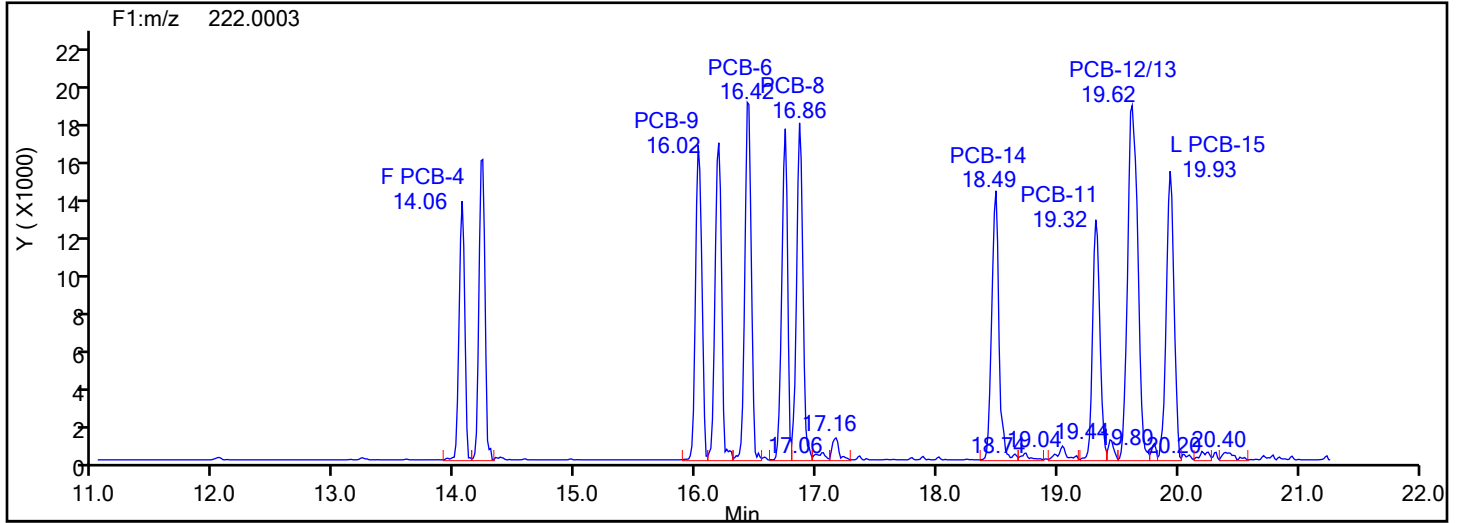
Worklist#: 87130

Sample Line#: 2

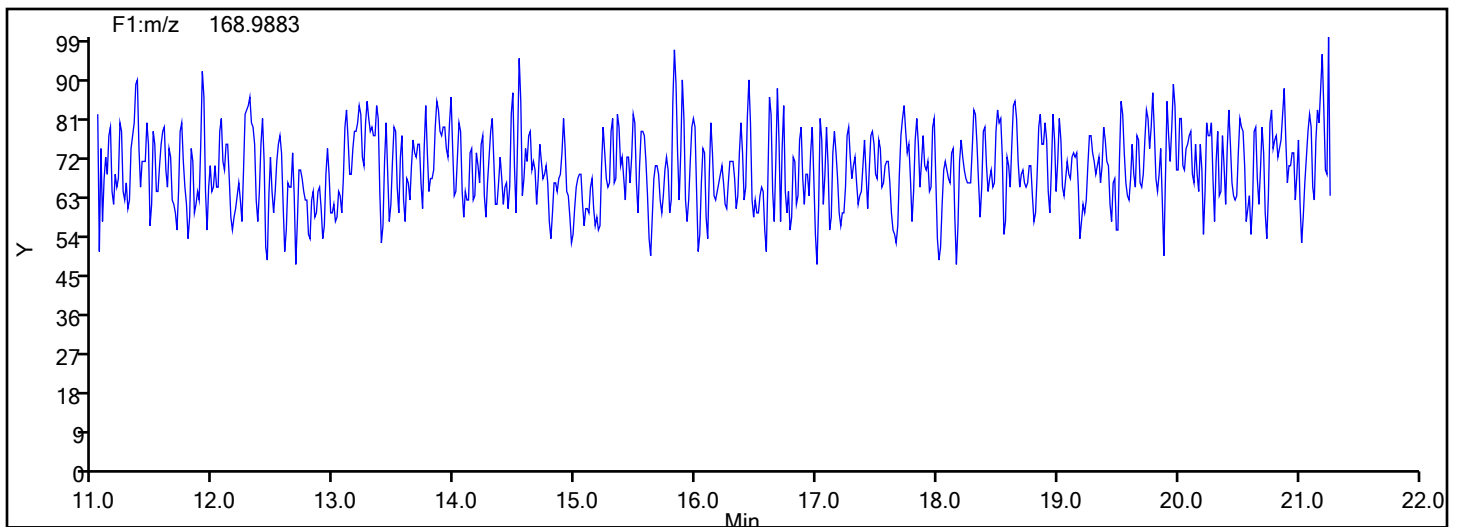
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

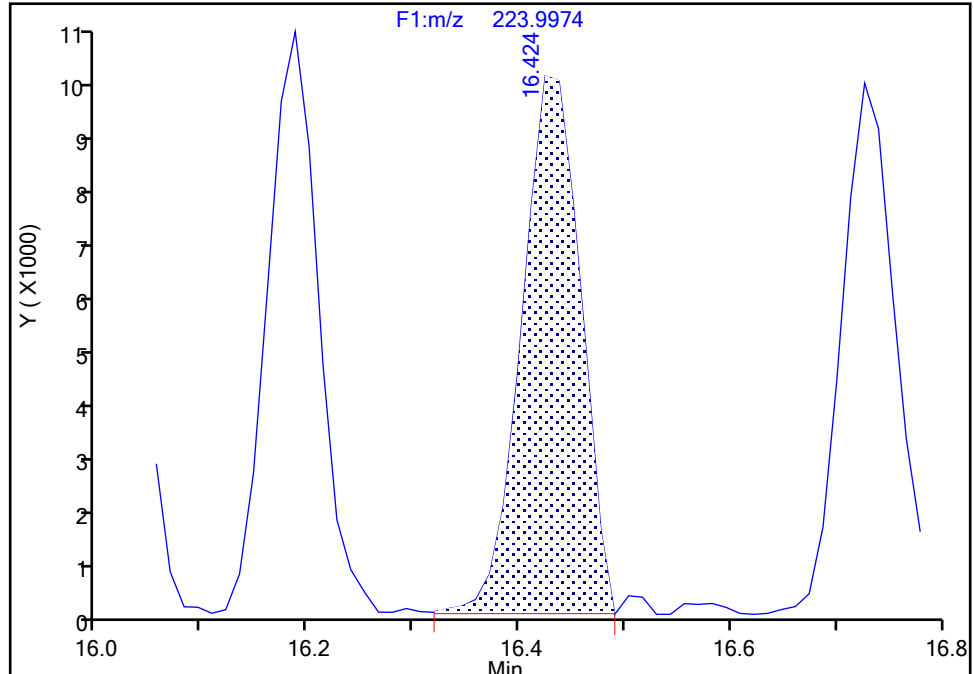
F1(11.07 :21.70)

PCB-6, CAS: 25569-80-6

Signal: 2

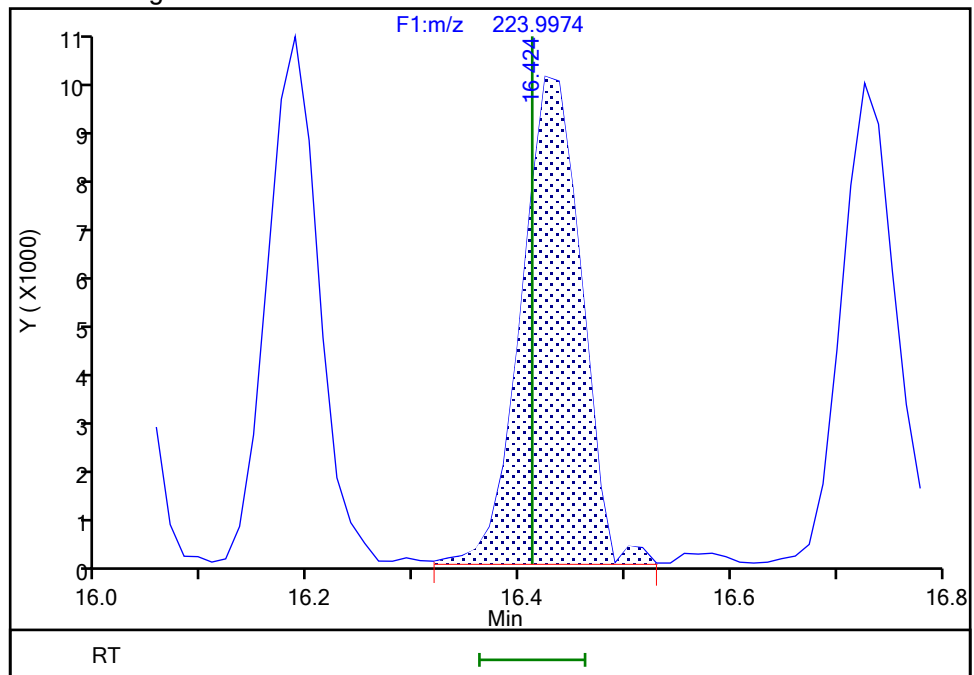
RT: 16.42
Area: 37615
Amount: 0.998581
Amount Units: pg/ul

Processing Integration Results



RT: 16.42
Area: 38133
Amount: 0.989120
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

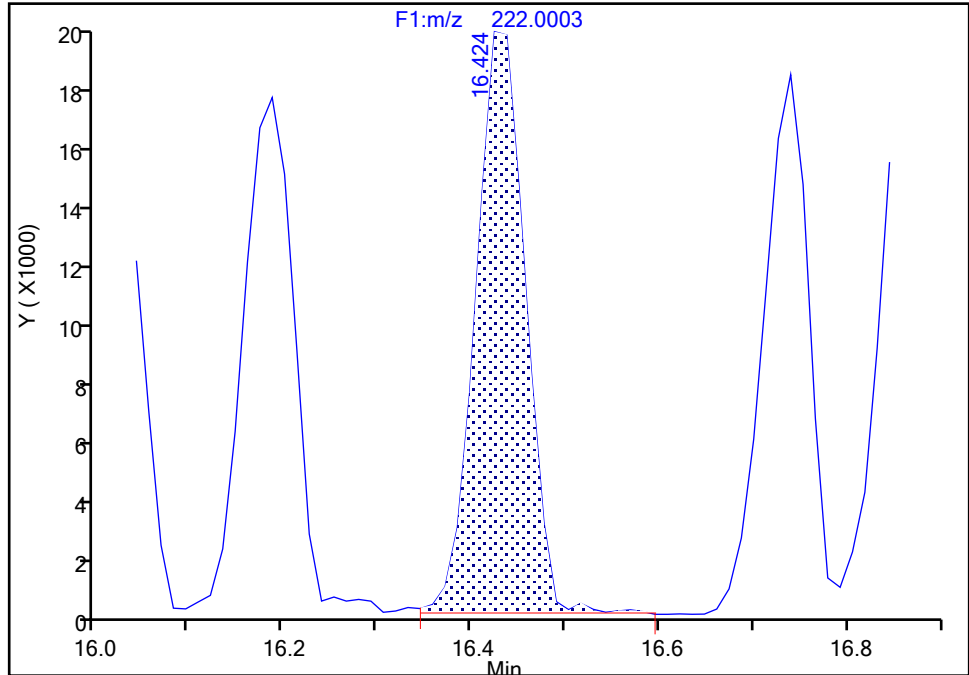
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F1(11.07 :21.70)

PCB-6, CAS: 25569-80-6

Signal: 1

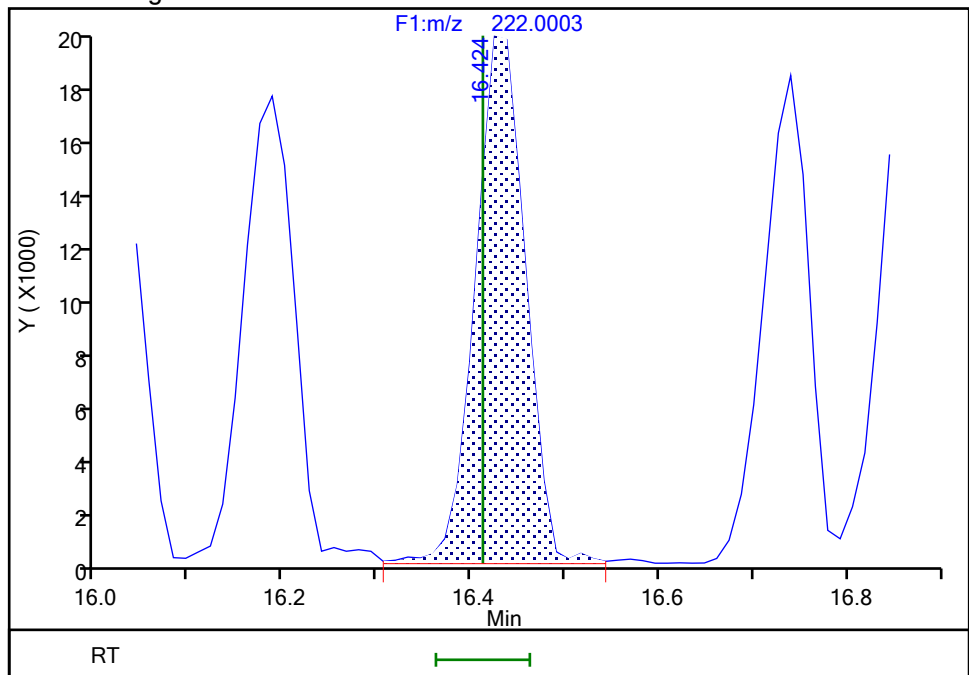
RT: 16.42
Area: 70677
Amount: 0.998581
Amount Units: pg/ul

Processing Integration Results



RT: 16.42
Area: 70638
Amount: 0.989120
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1860 of 3050

BASFWC-McIntosh-009861

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

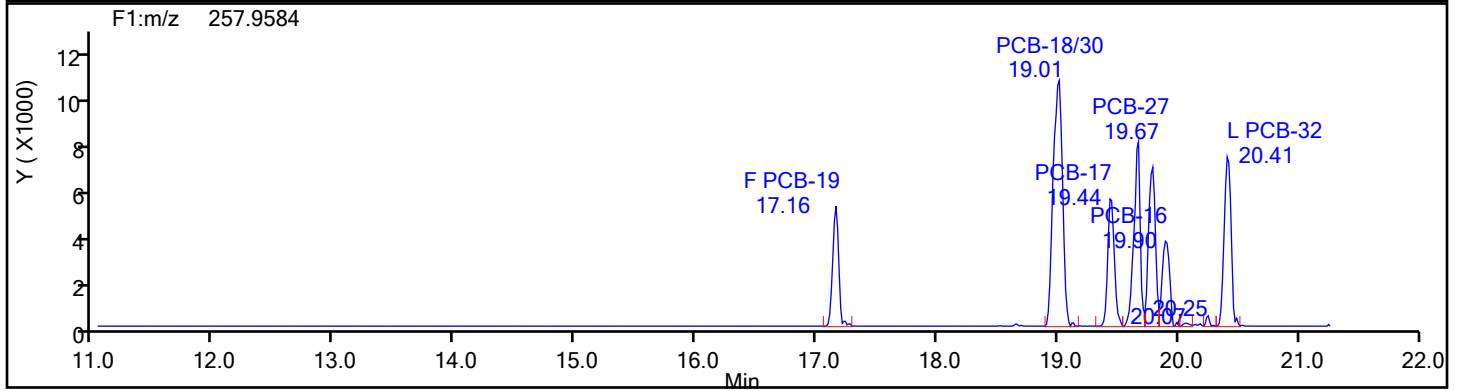
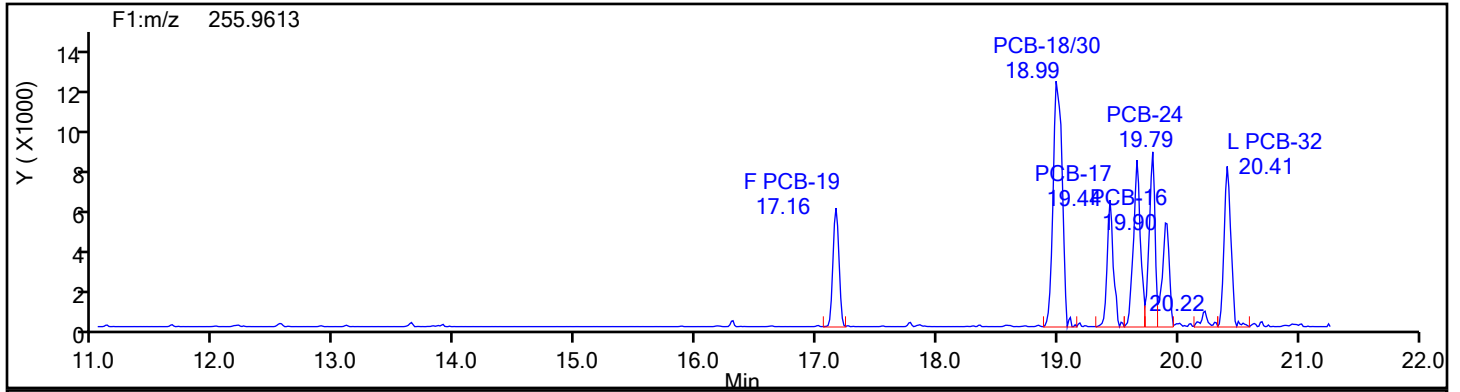
Worklist#: 87130

Sample Line#: 2

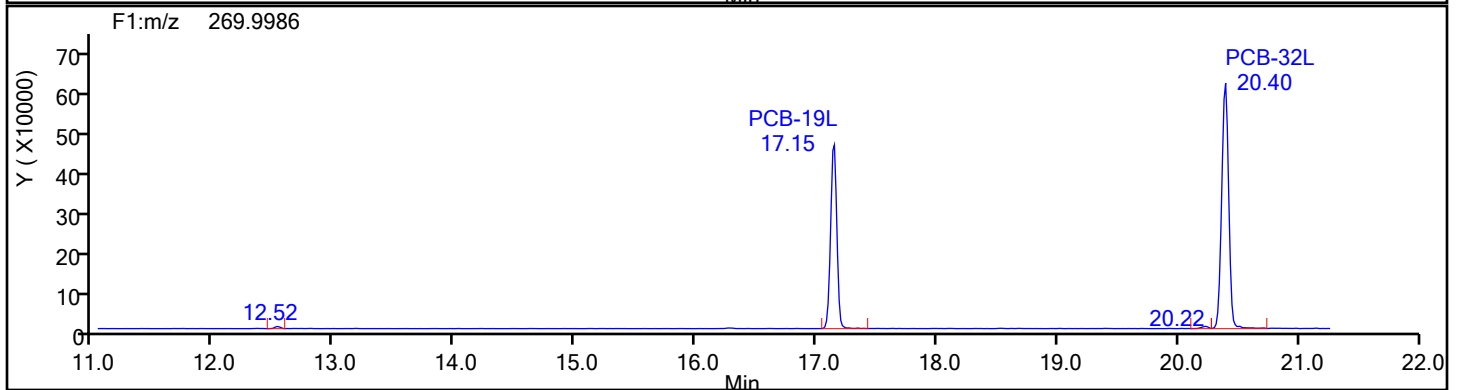
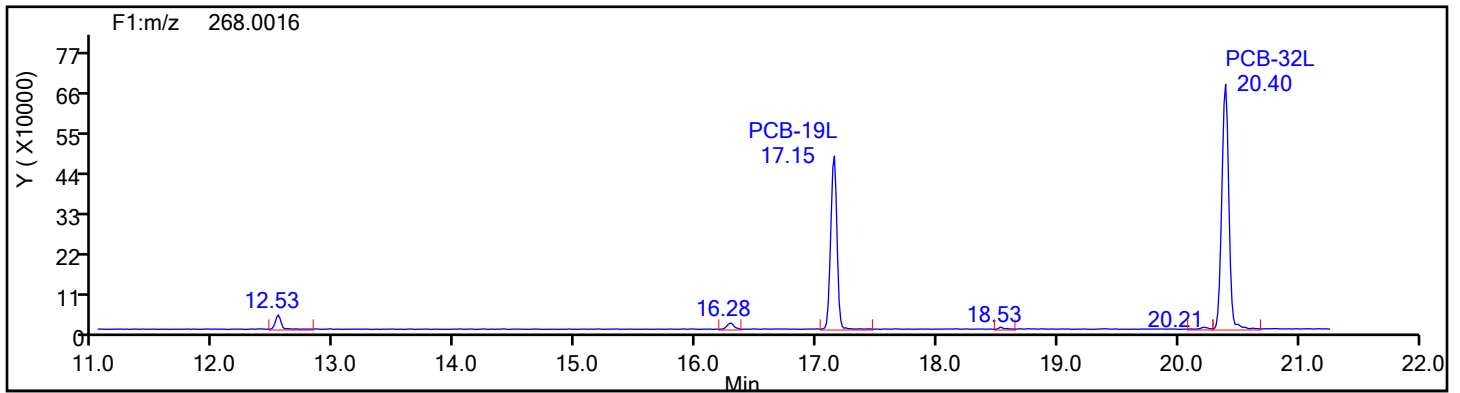
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

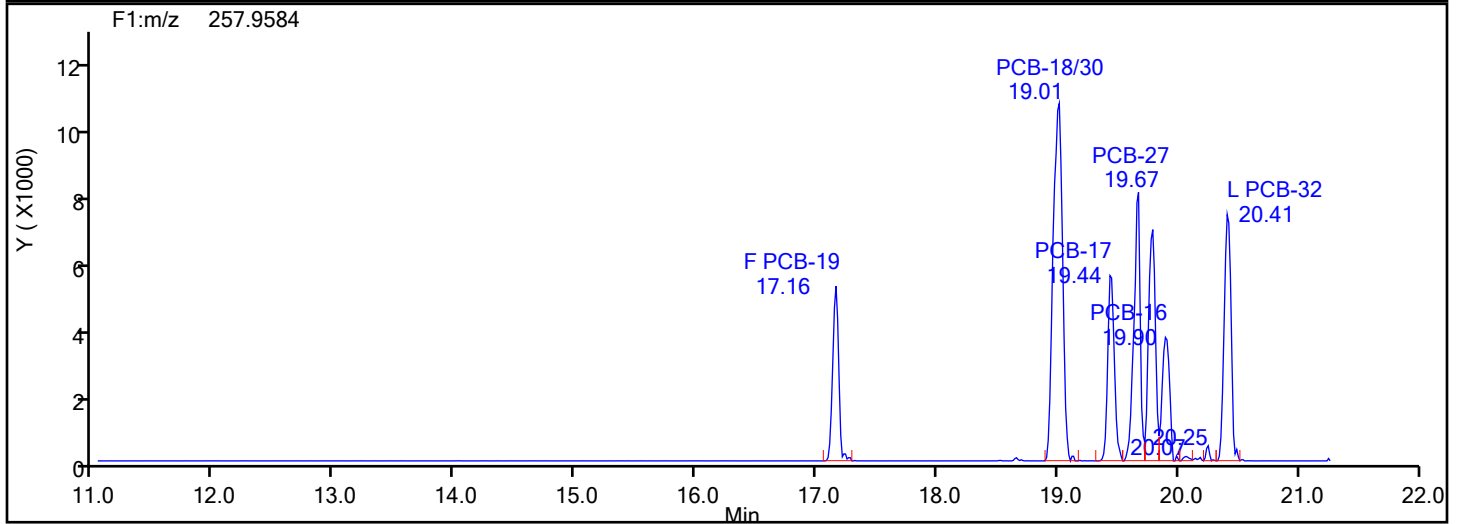
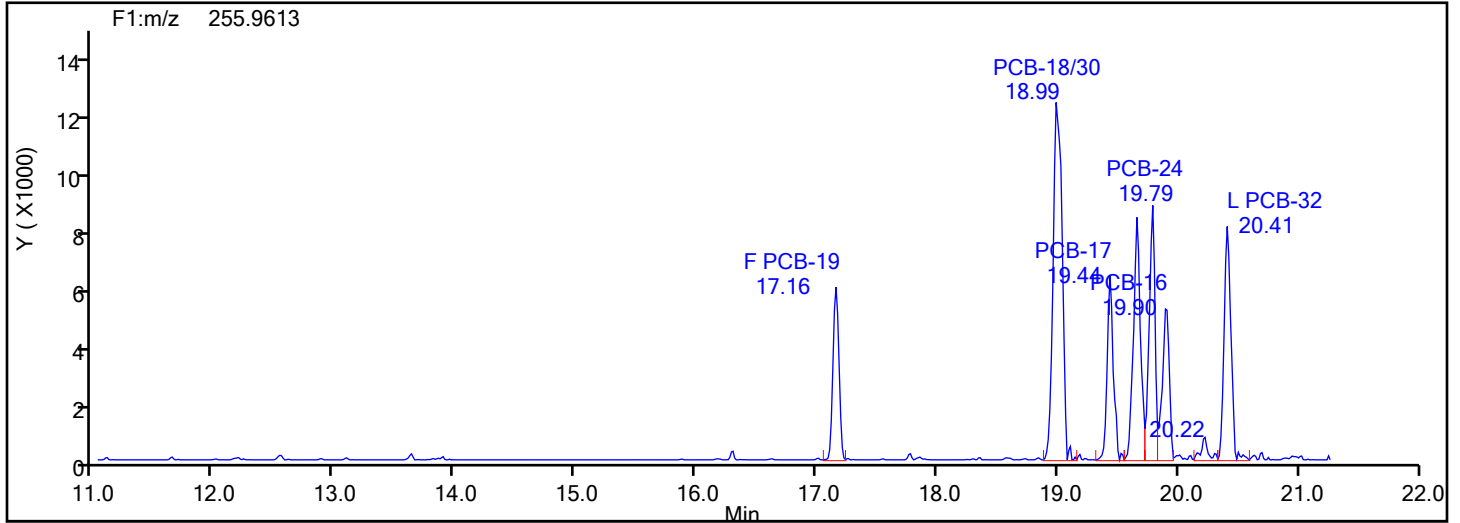
Worklist#: 87130

Sample Line#: 2

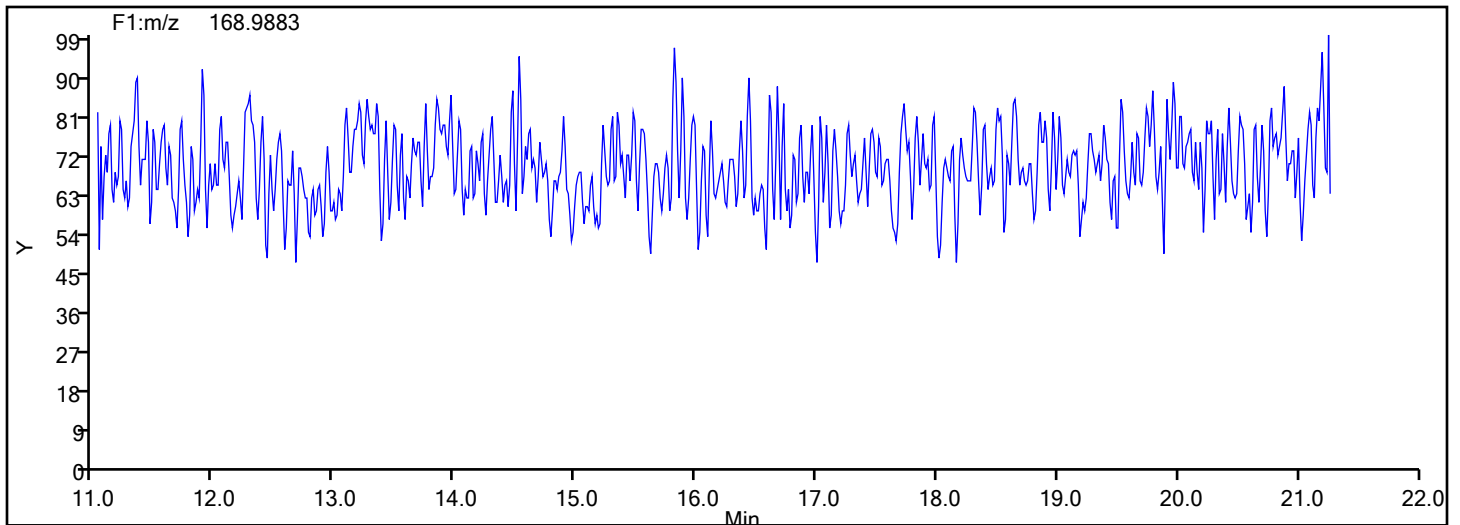
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

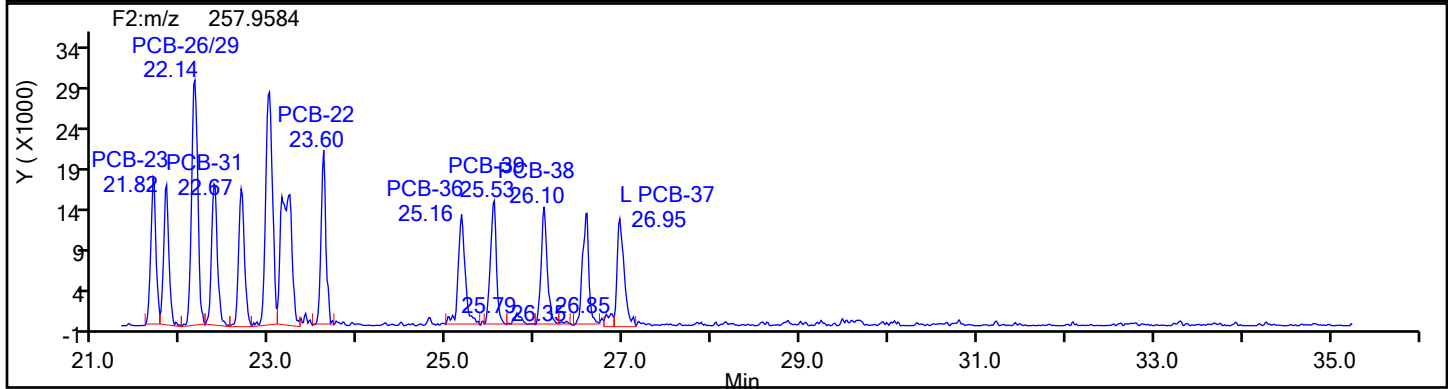
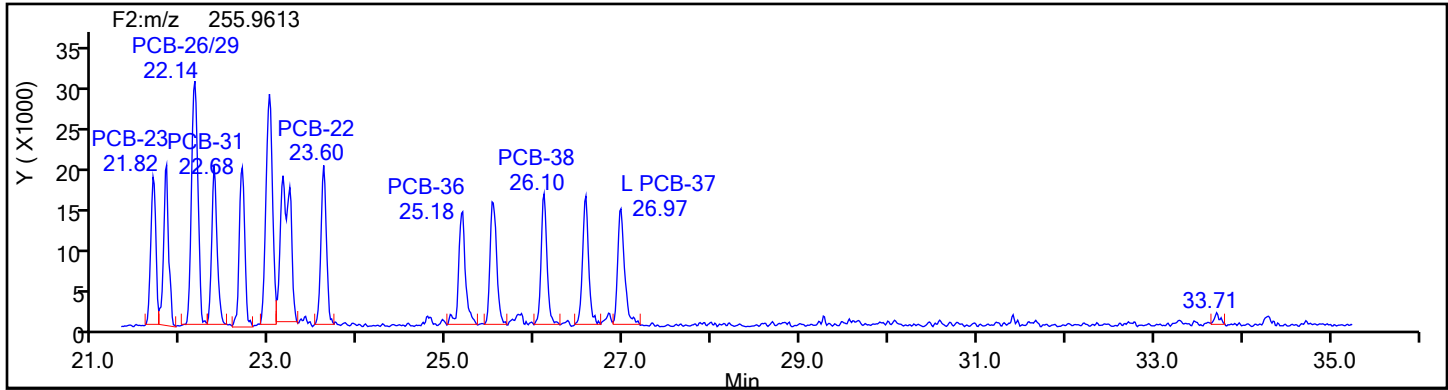
Worklist#: 87130

Sample Line#: 2

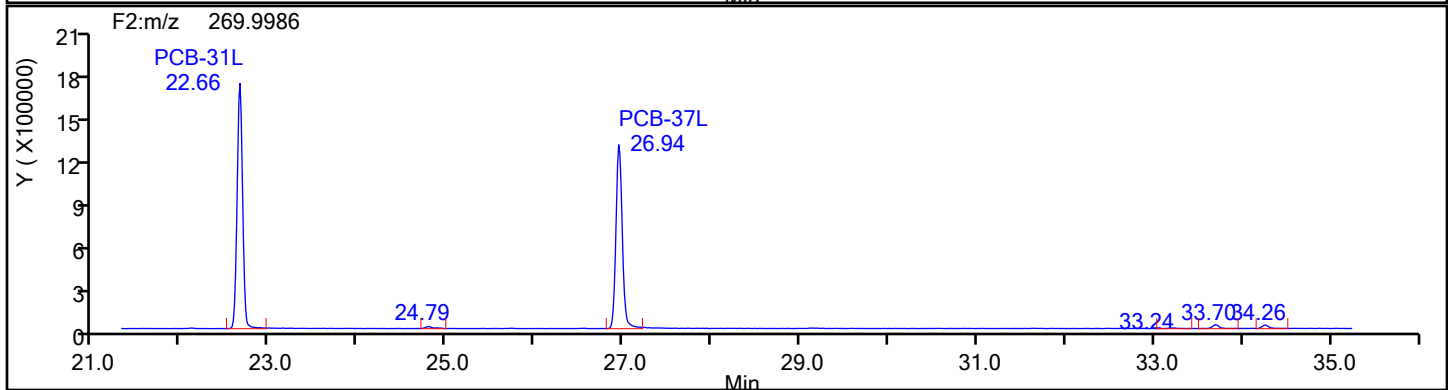
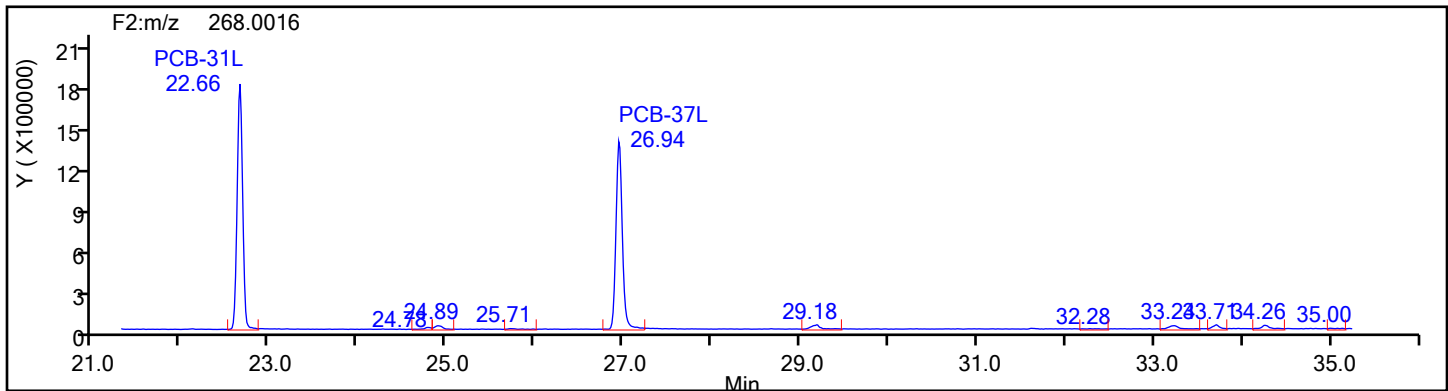
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

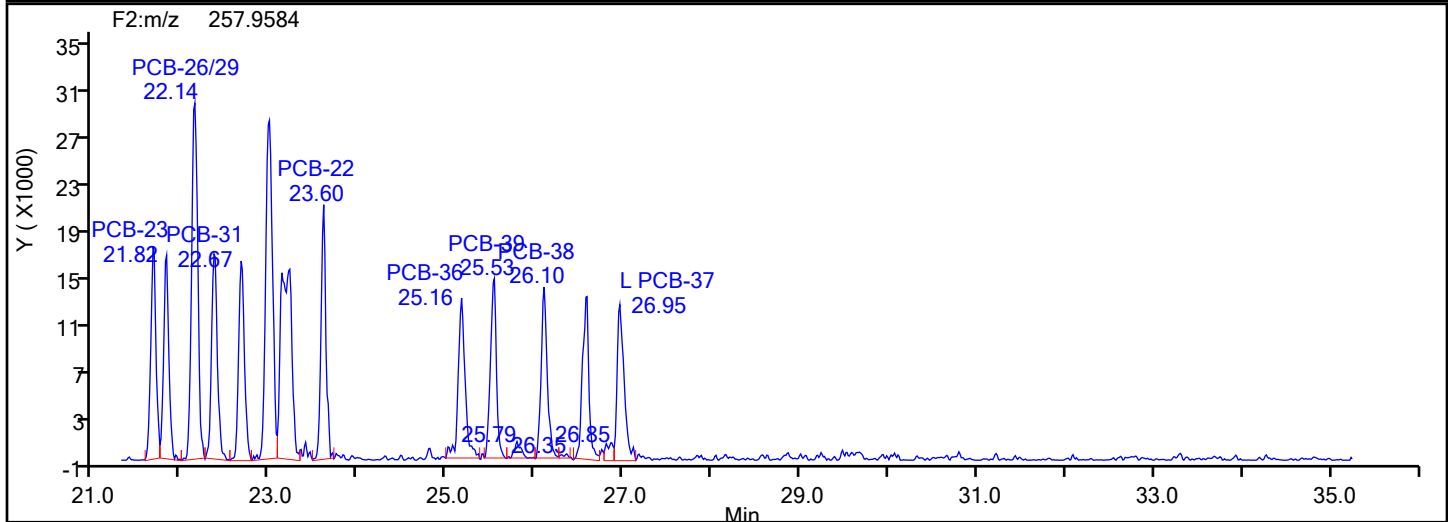
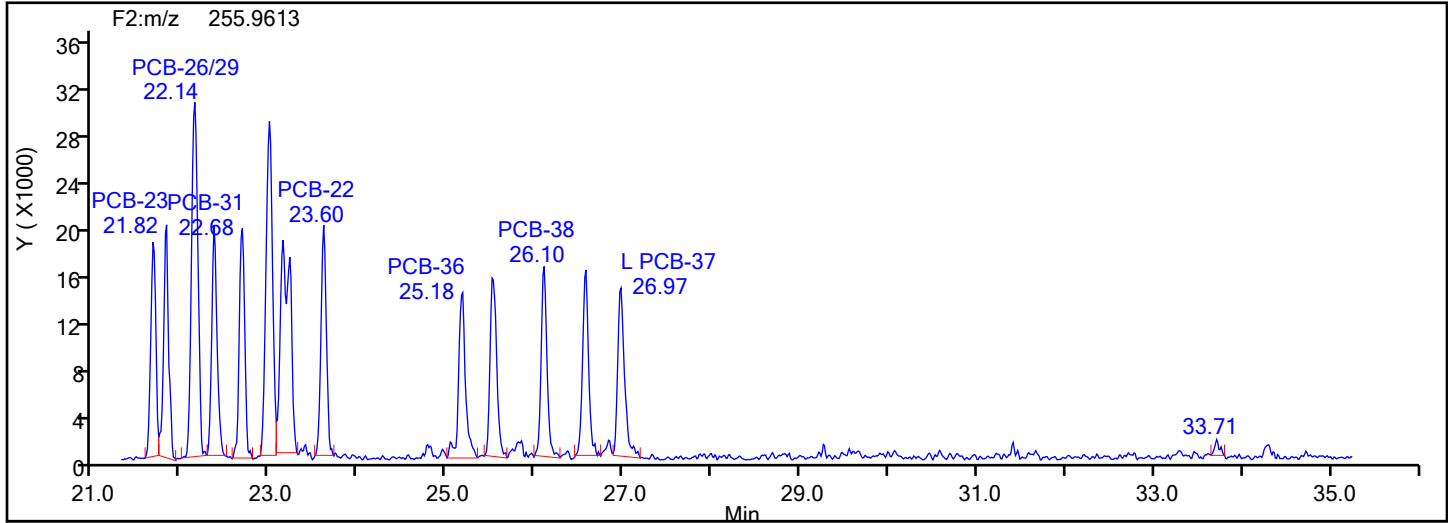
Worklist#: 87130

Sample Line#: 2

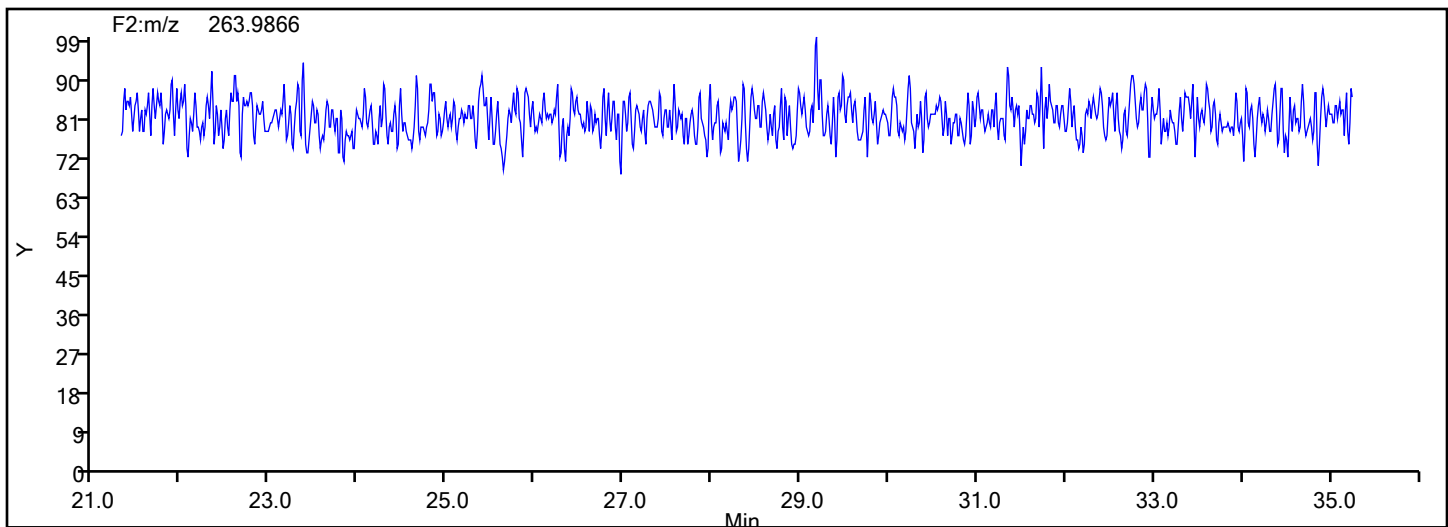
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

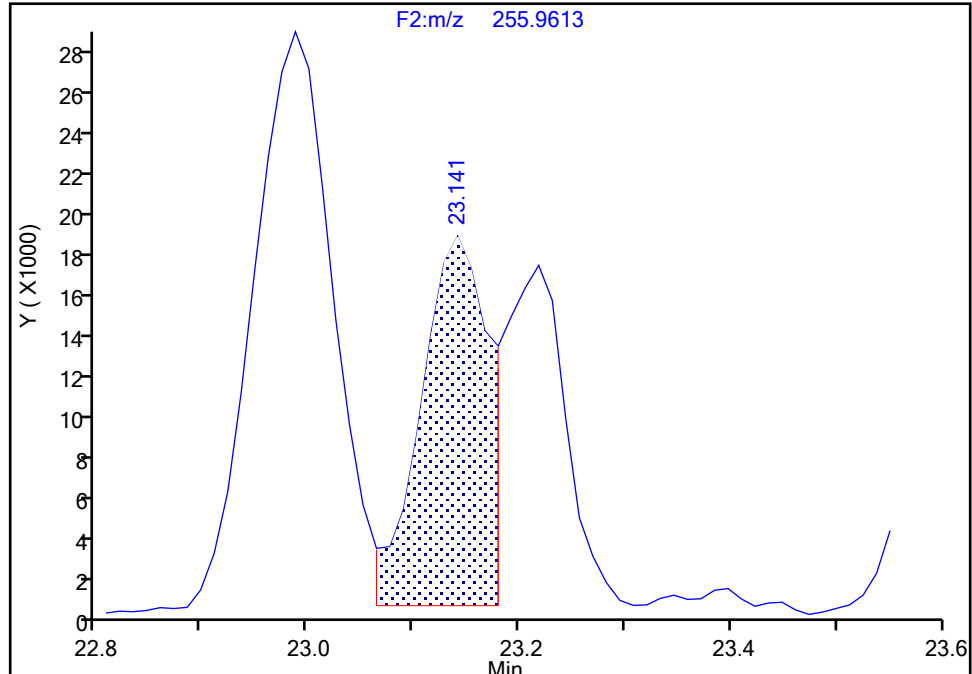
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

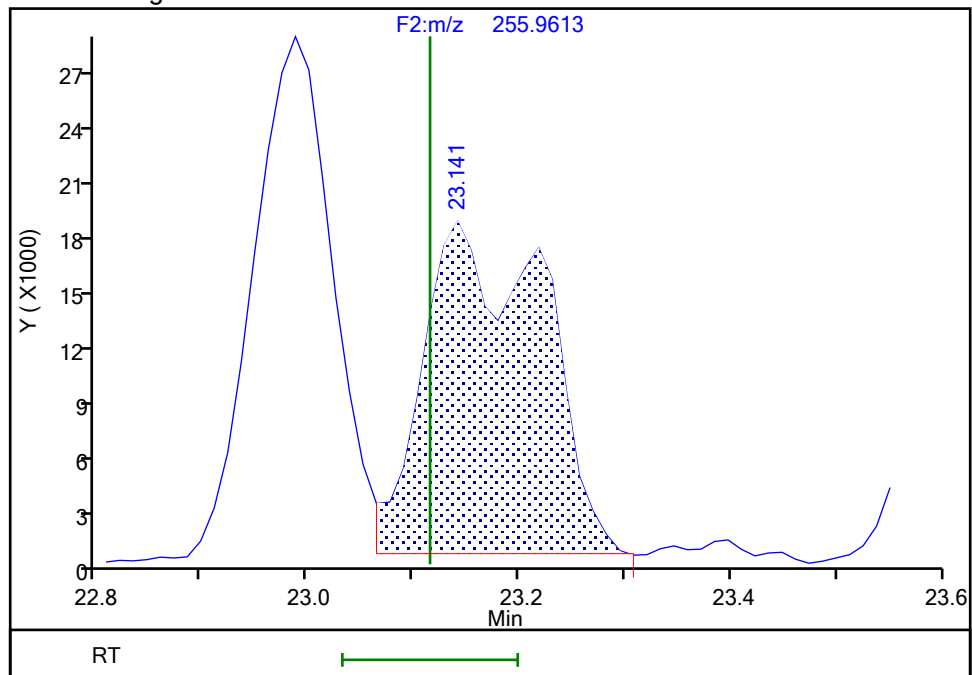
RT: 23.14
Area: 78248
Amount: 1.094563
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 142636
Amount: 1.979659
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

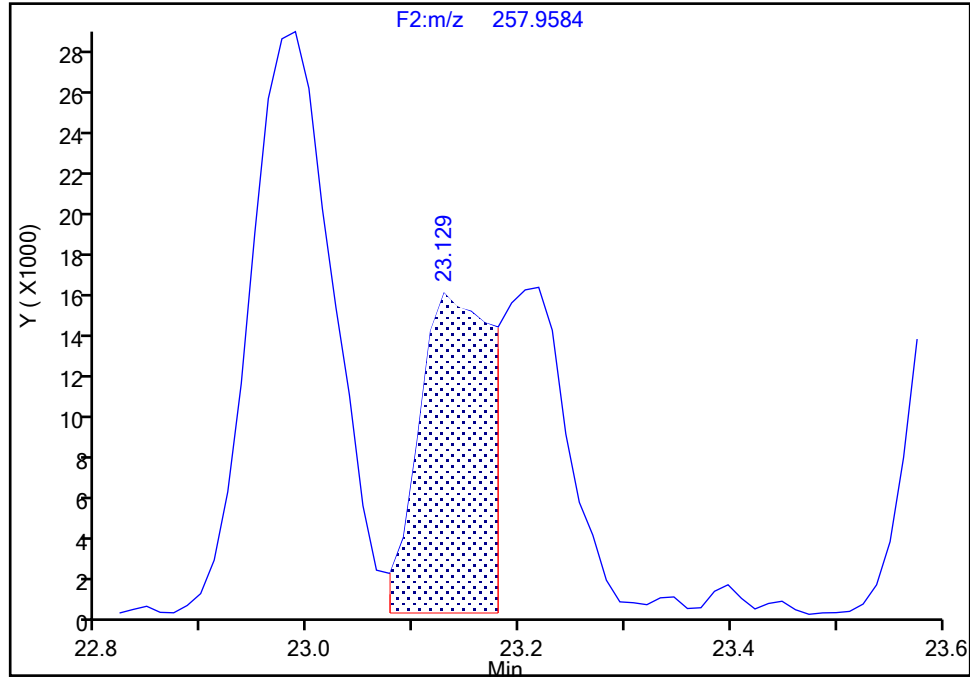
F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

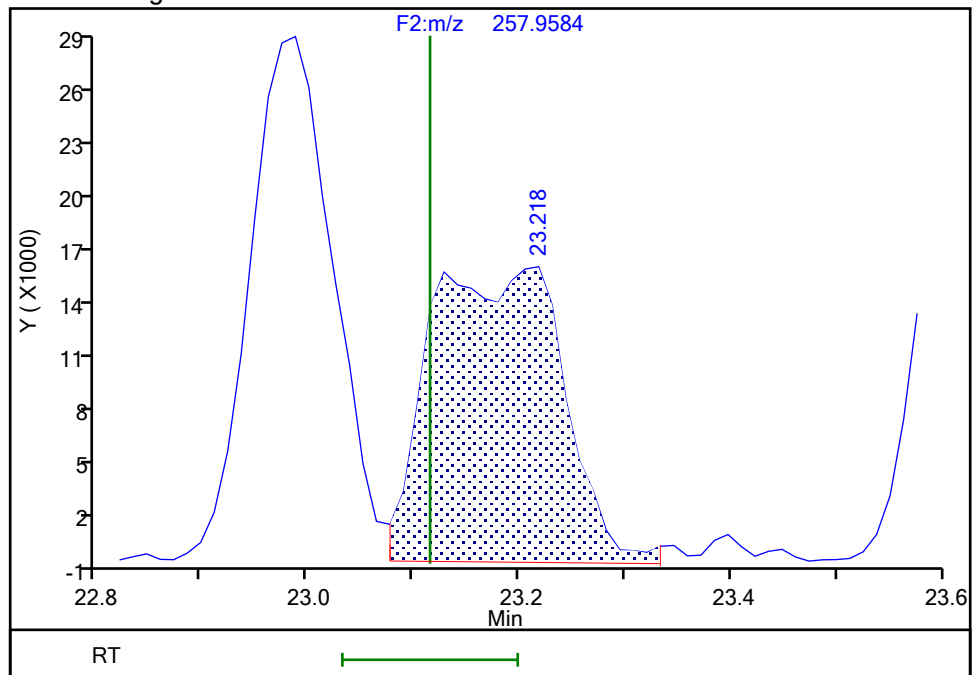
RT: 23.13
Area: 70581
Amount: 1.094563
Amount Units: pg/ul

Processing Integration Results



RT: 23.22
Area: 139356
Amount: 1.979659
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1866 of 3050

BASFWC-McIntosh-009867

9/6/2024

4:11:20 PM

Eurofins Knoxville

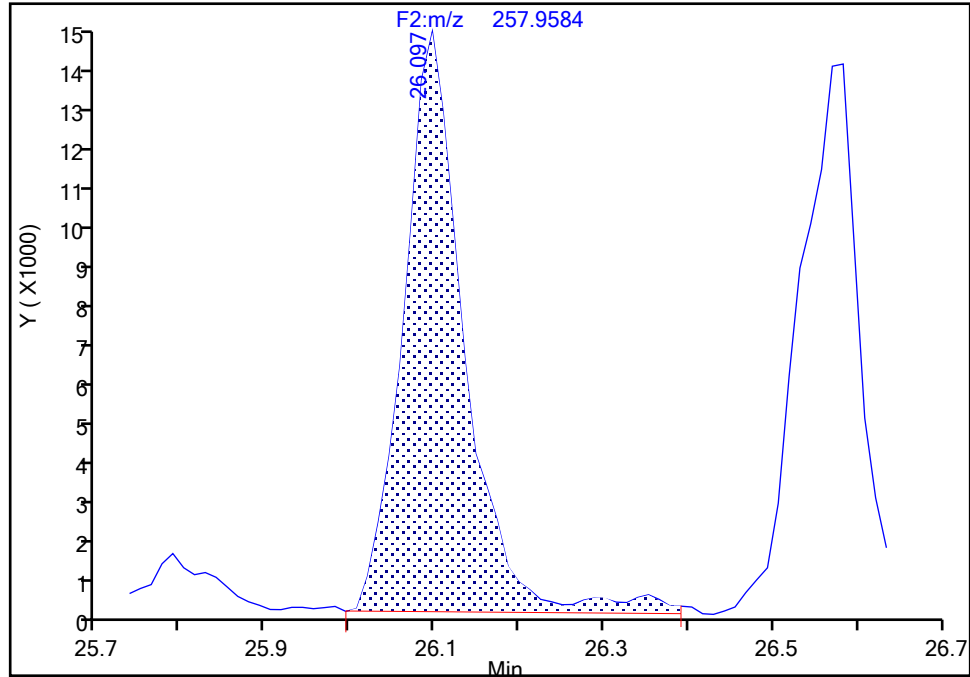
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-38, CAS: 53555-66-1

Signal: 2

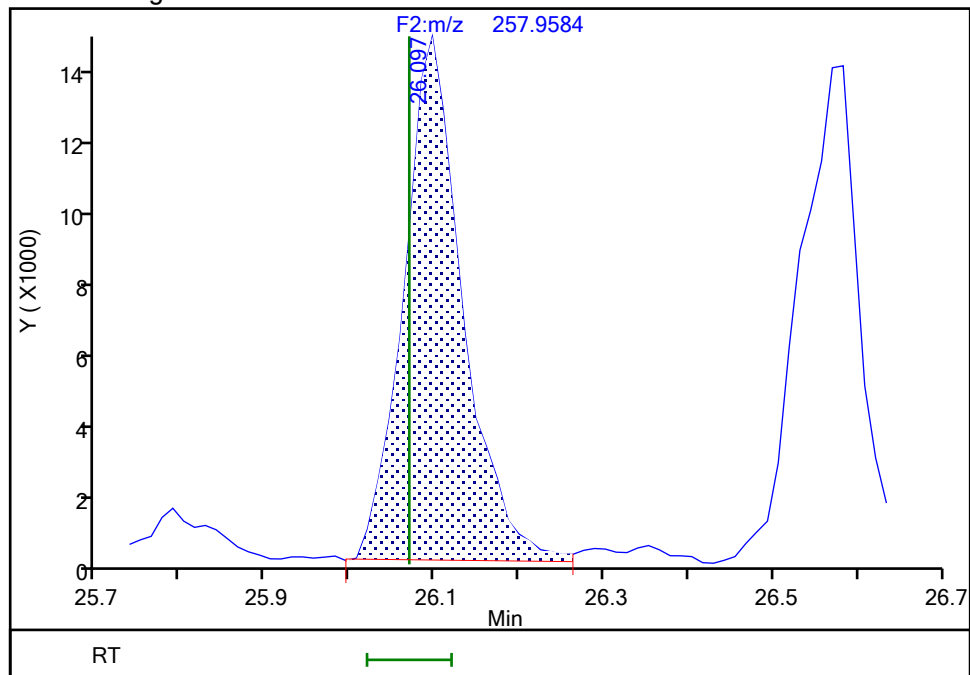
RT: 26.10
Area: 70957
Amount: 0.971249
Amount Units: pg/ul

Processing Integration Results



RT: 26.10
Area: 68696
Amount: 0.992448
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:34:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

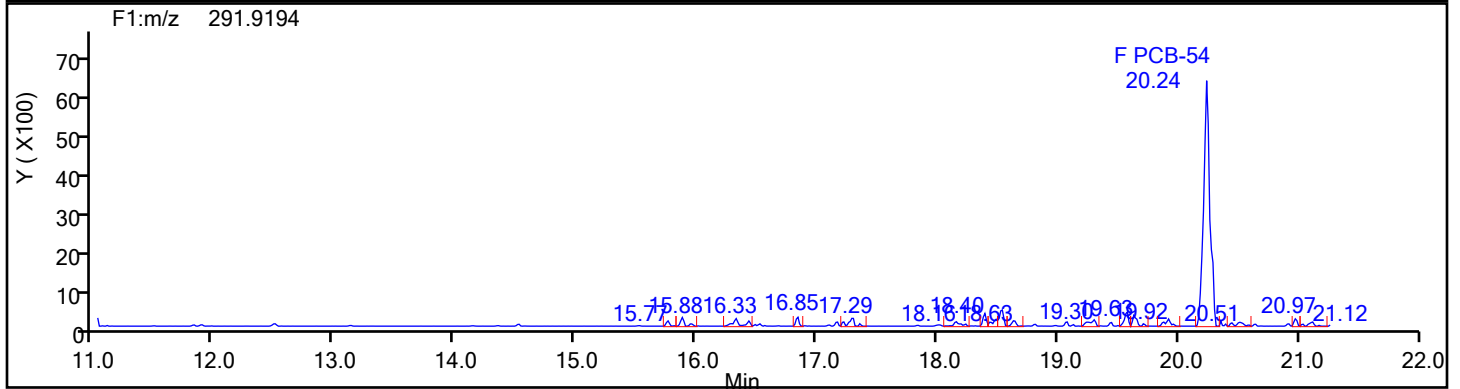
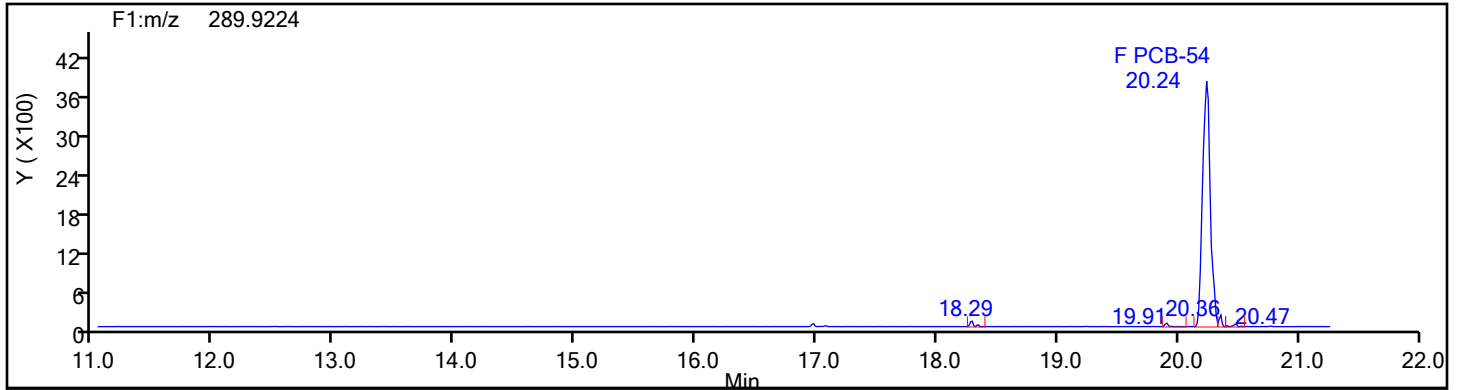
Worklist#: 87130

Sample Line#: 2

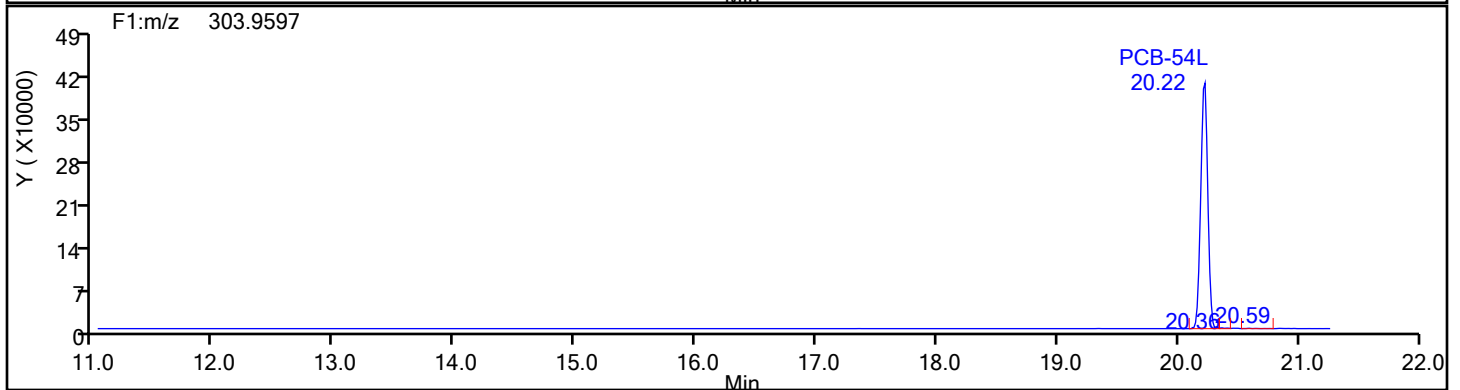
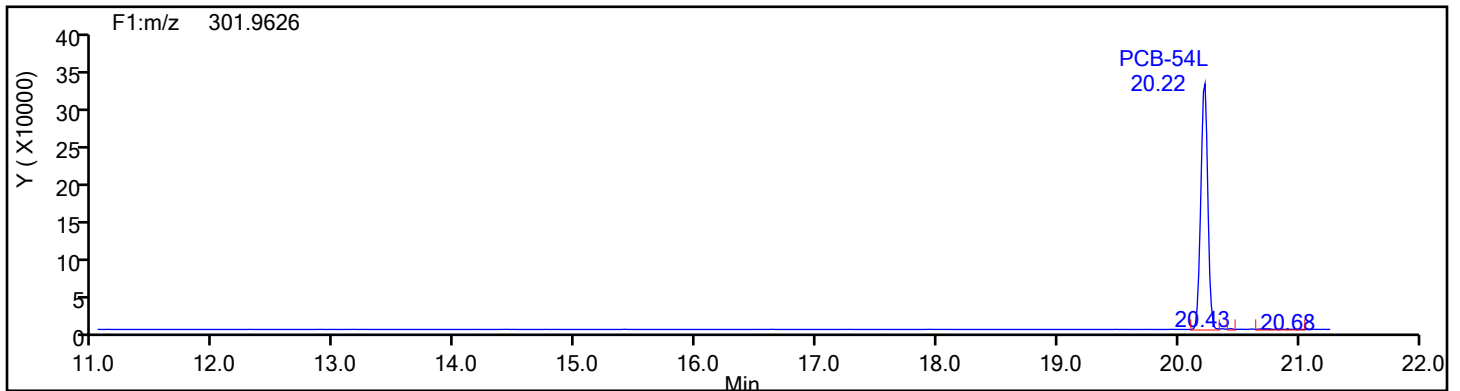
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

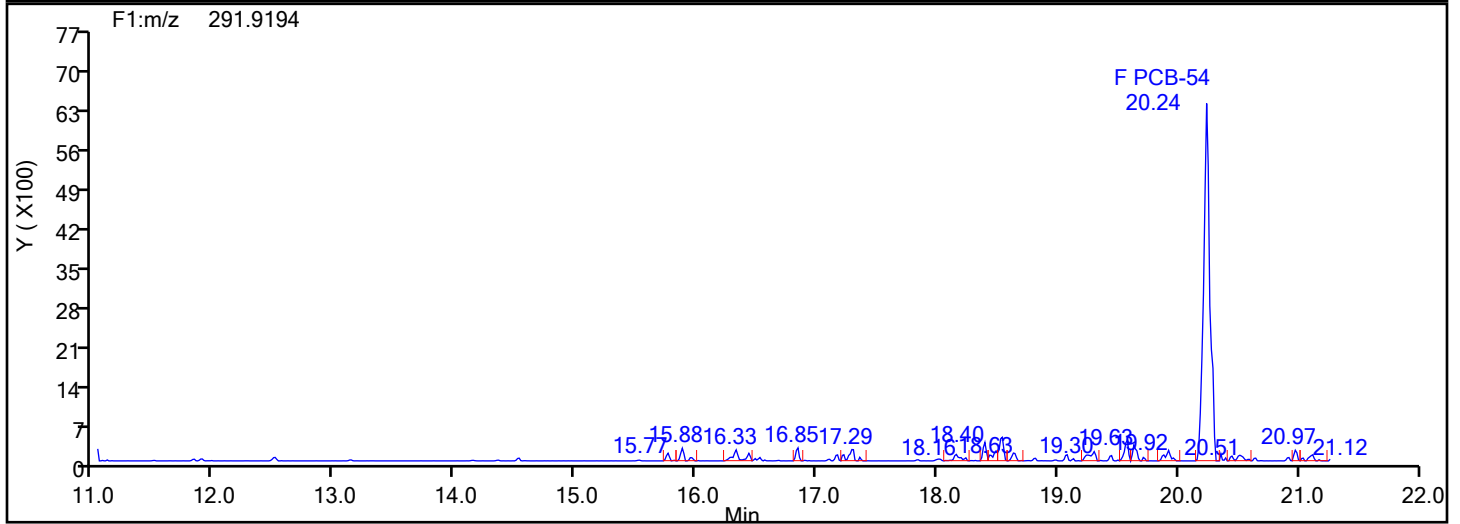
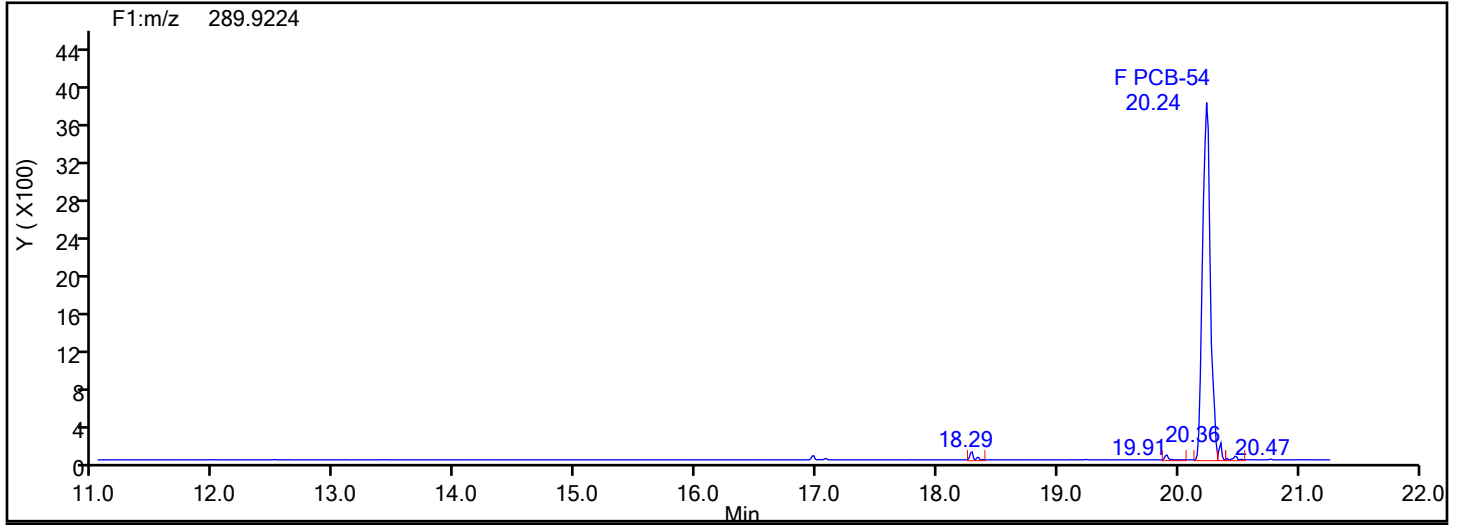
Worklist#: 87130

Sample Line#: 2

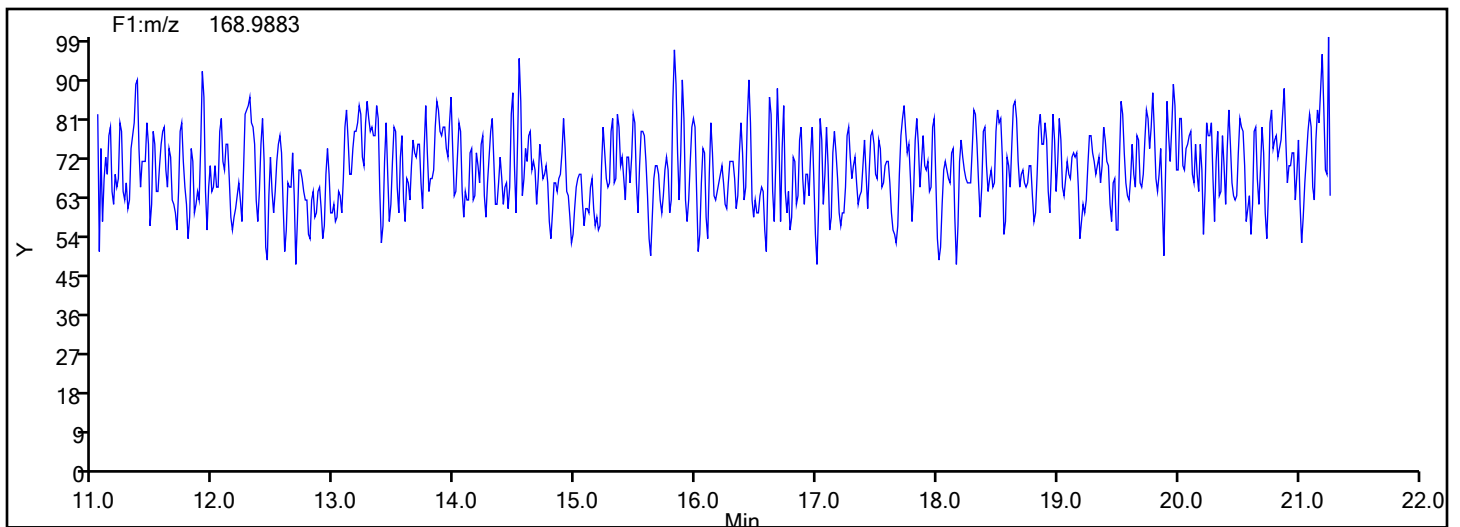
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

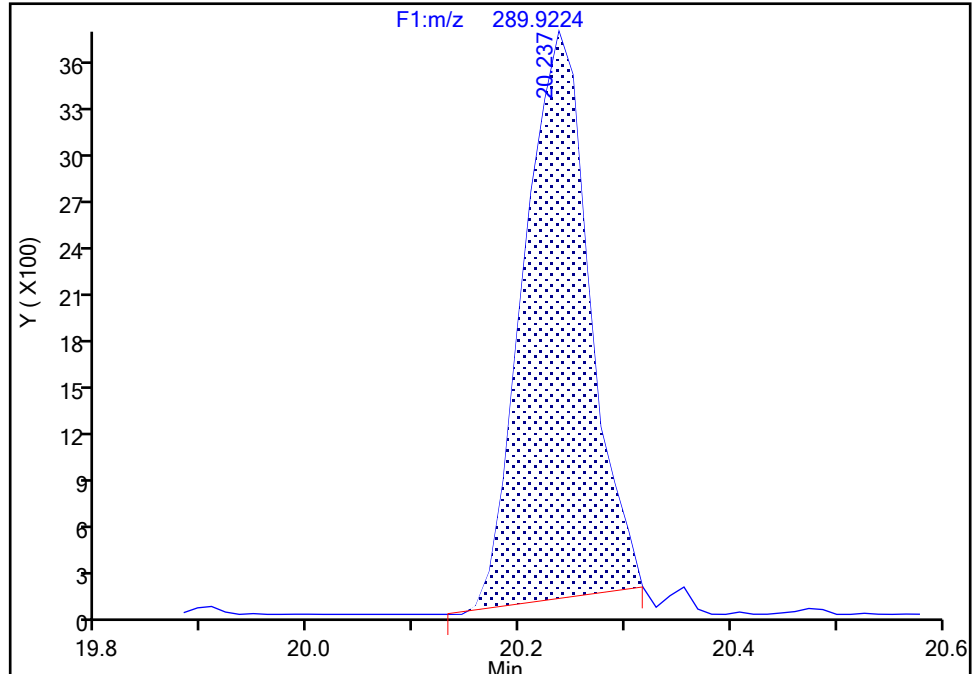
Detector F1(11.07 :21.70)

PCB-54, CAS: 15968-05-5

Signal: 1

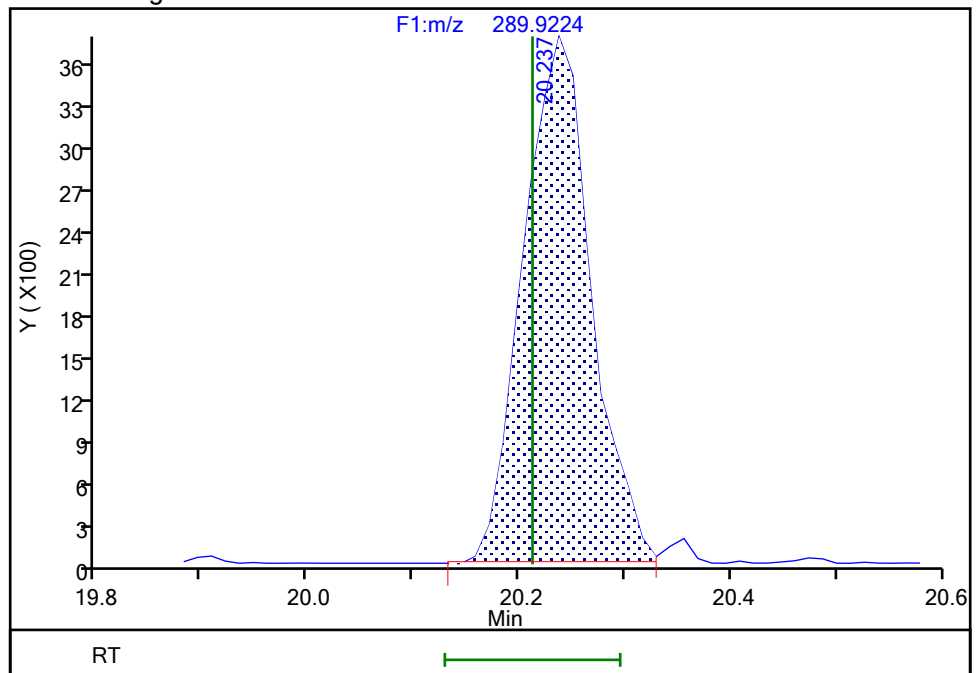
RT: 20.24
Area: 15732
Amount: 1.081870
Amount Units: pg/ul

Processing Integration Results



RT: 20.24
Area: 16803
Amount: 1.040564
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

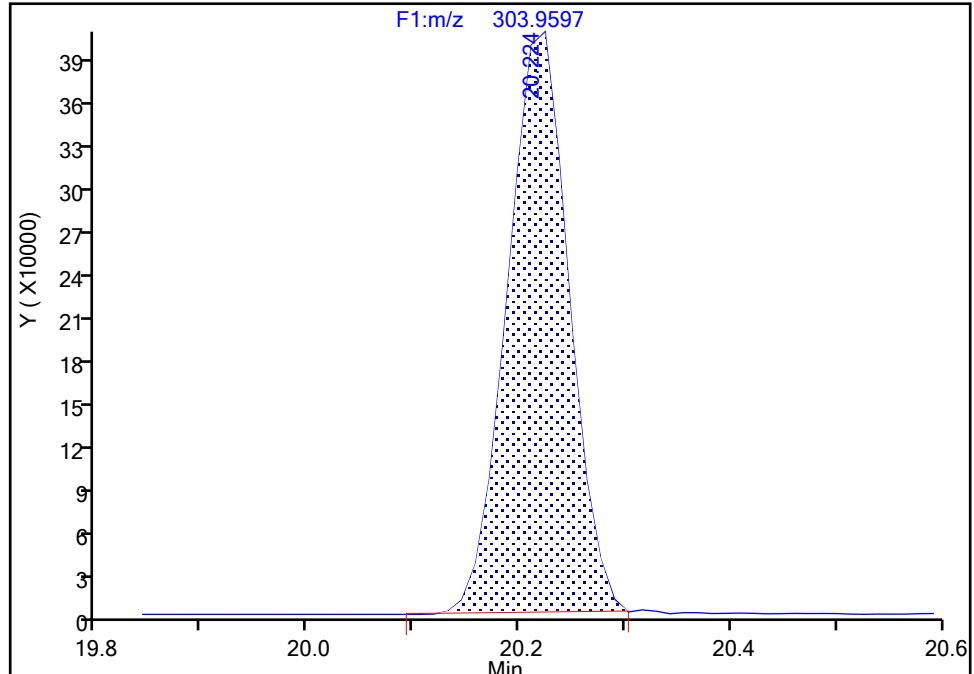
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

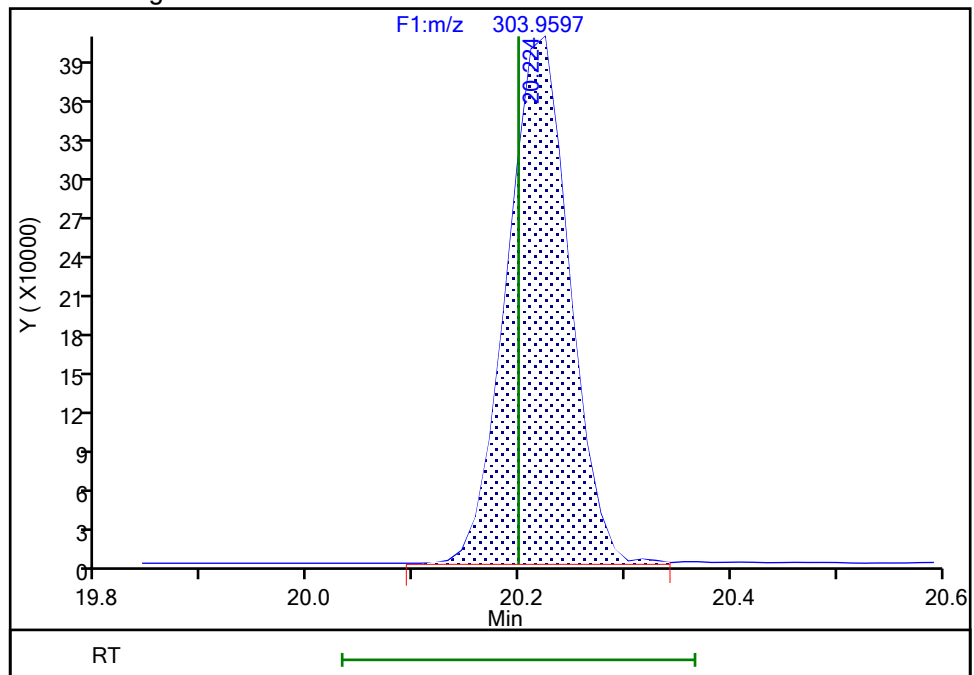
RT: 20.22
Area: 1651536
Amount: 94.488267
Amount Units: pg/ul

Processing Integration Results



RT: 20.22
Area: 1667087
Amount: 102.2191
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Column Dia: 0.25 mm

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

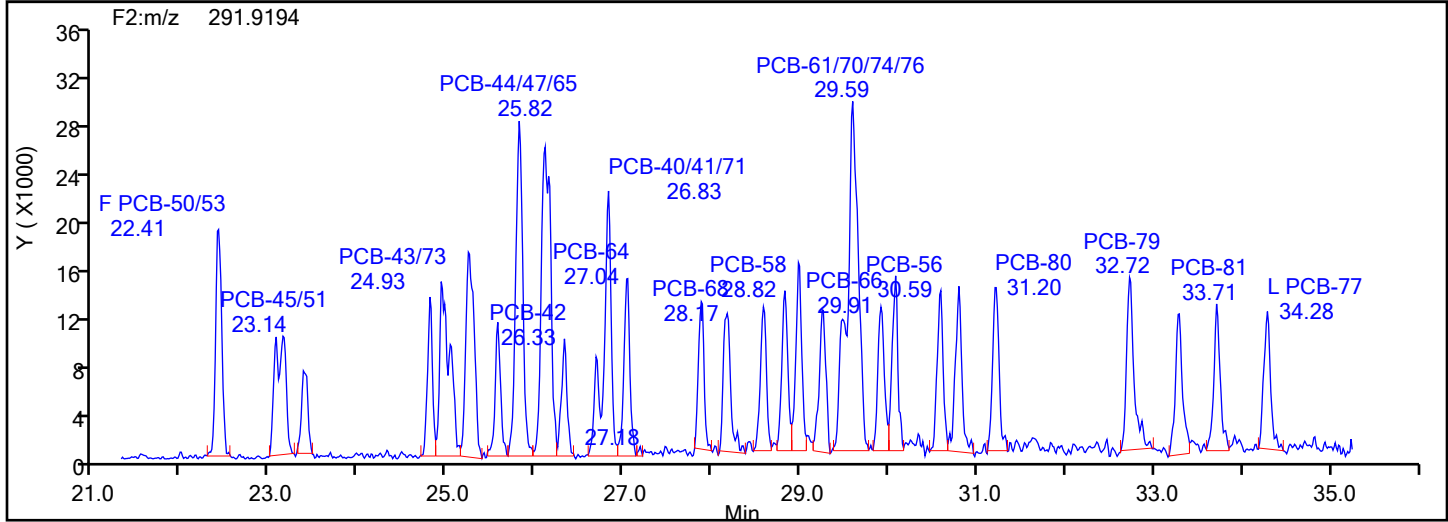
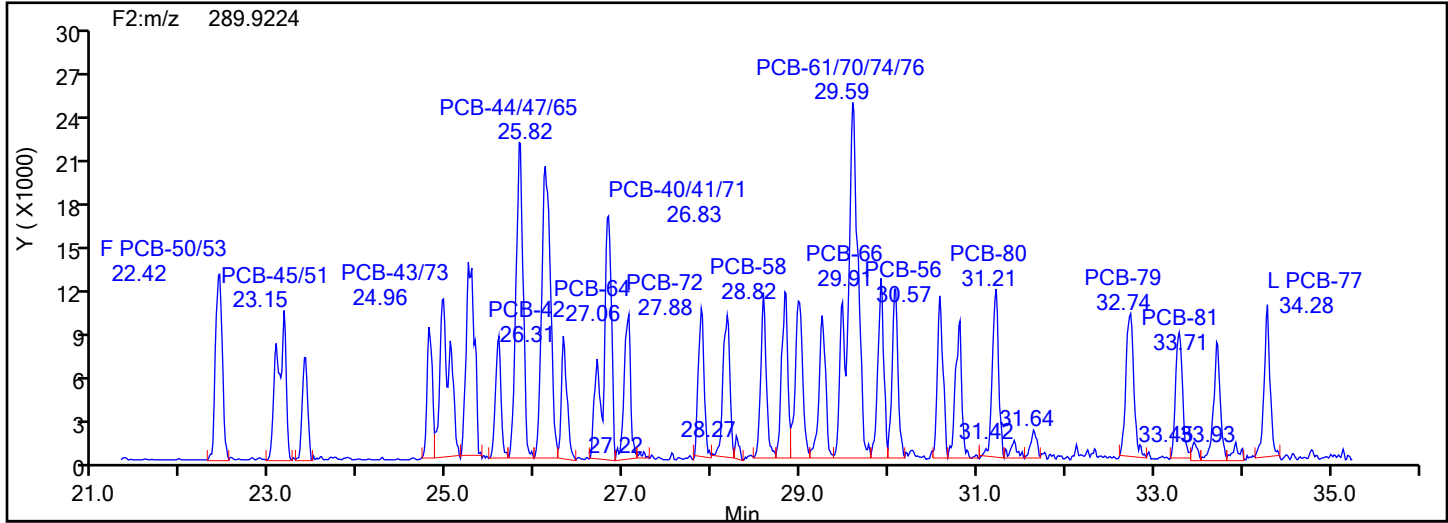
Worklist#: 87130

Sample Line#: 2

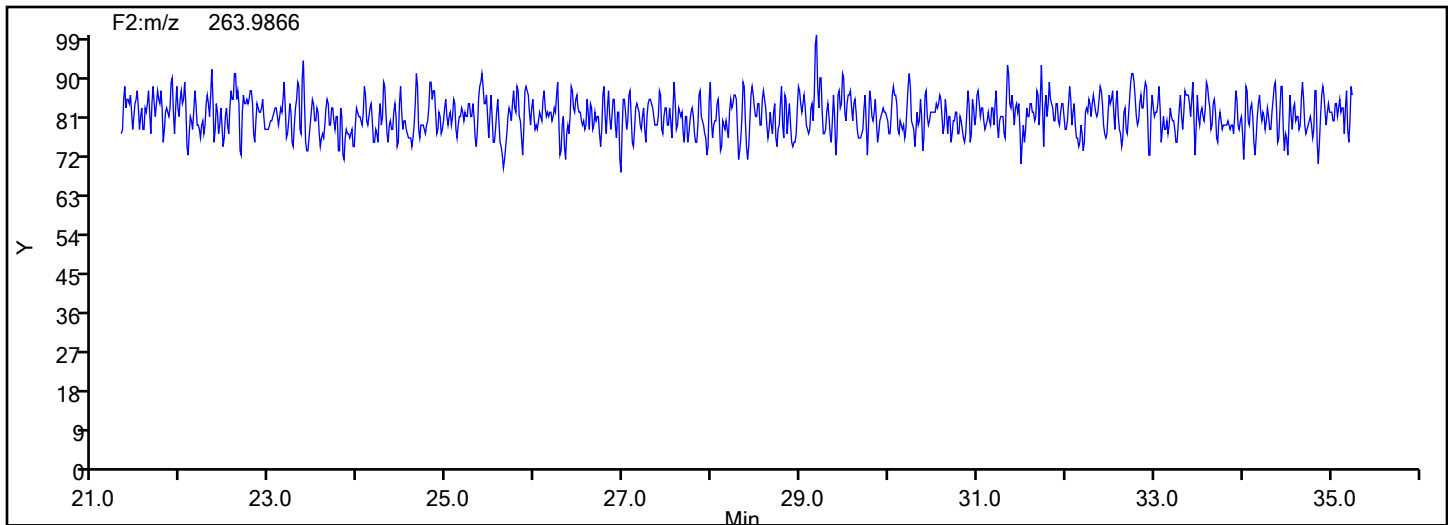
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

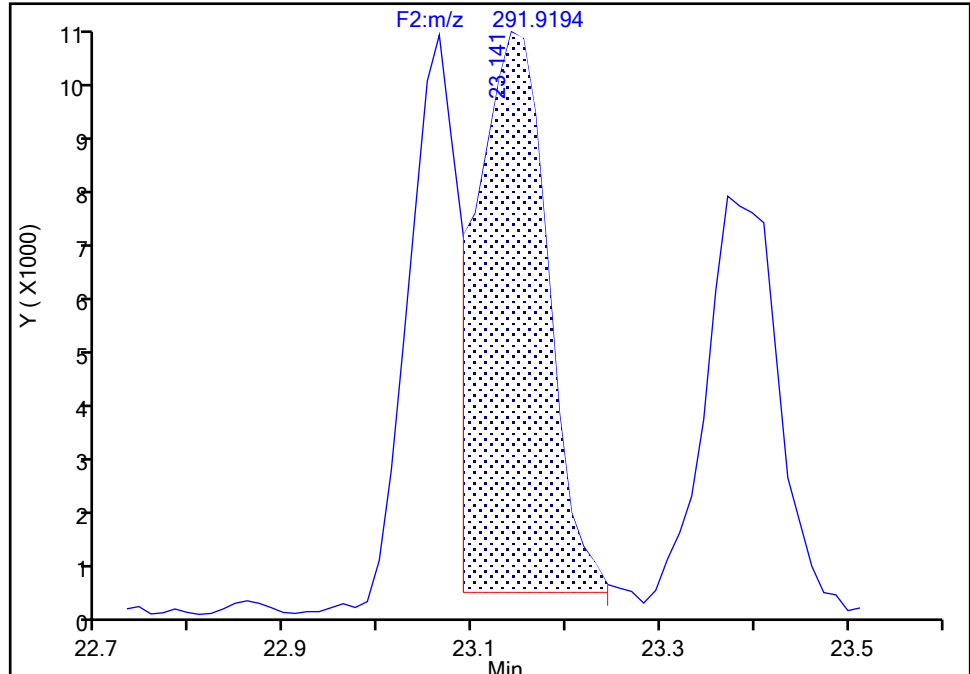
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

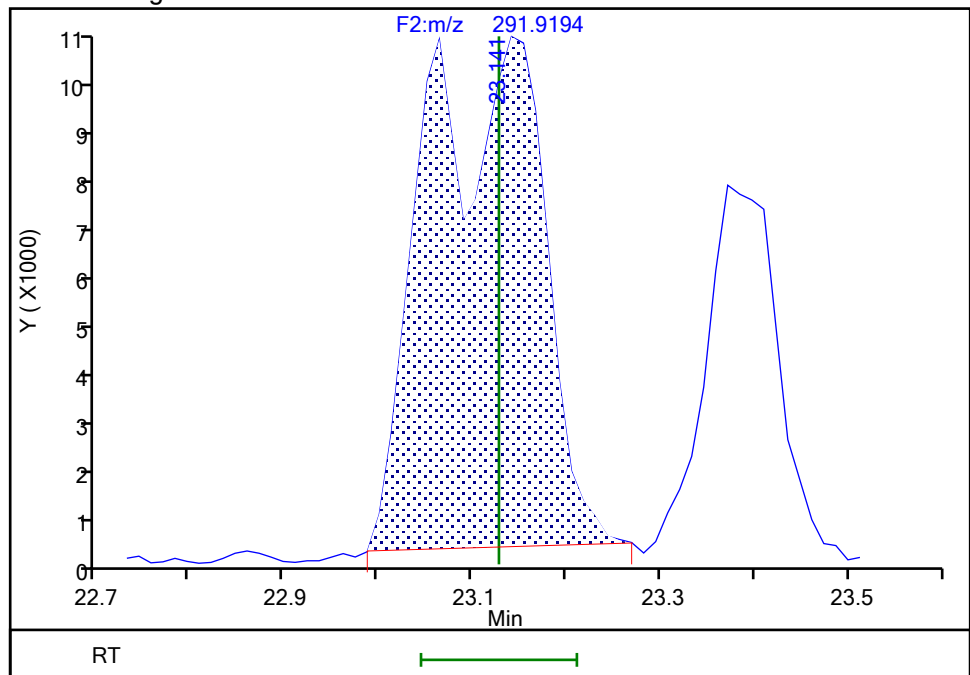
RT: 23.14
Area: 50830
Amount: 1.771882
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 85307
Amount: 1.974472
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

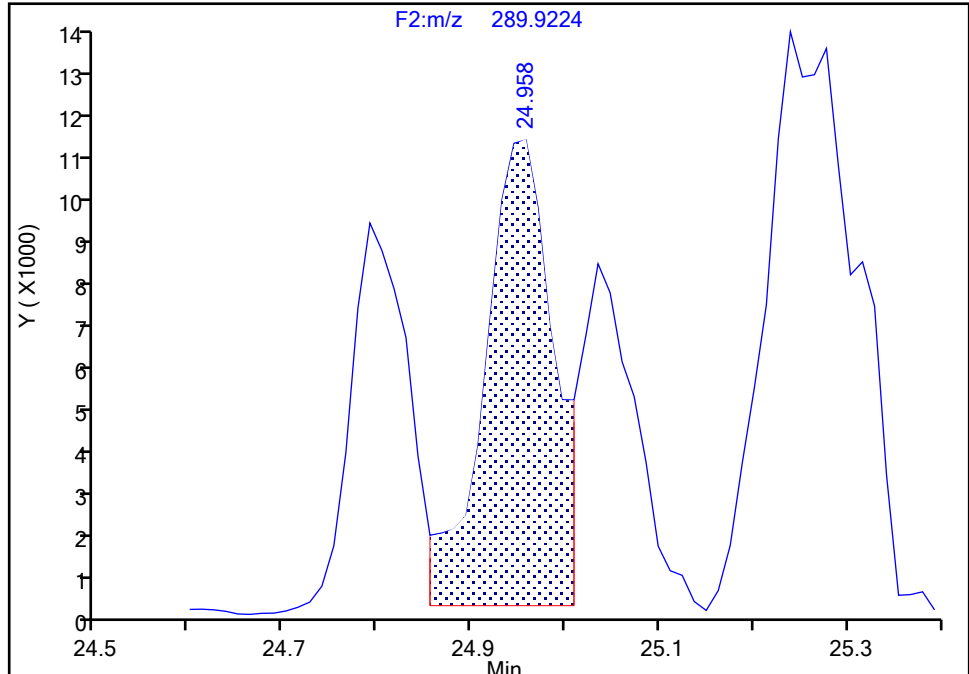
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

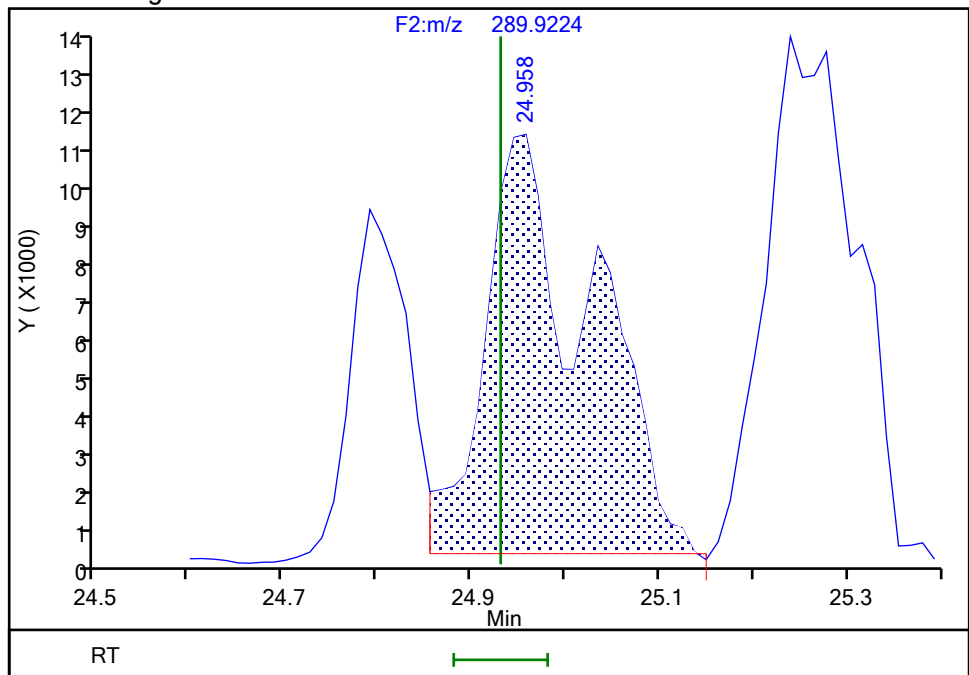
RT: 24.96
Area: 54766
Amount: 1.474080
Amount Units: pg/ul

Processing Integration Results



RT: 24.96
Area: 85780
Amount: 2.004763
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

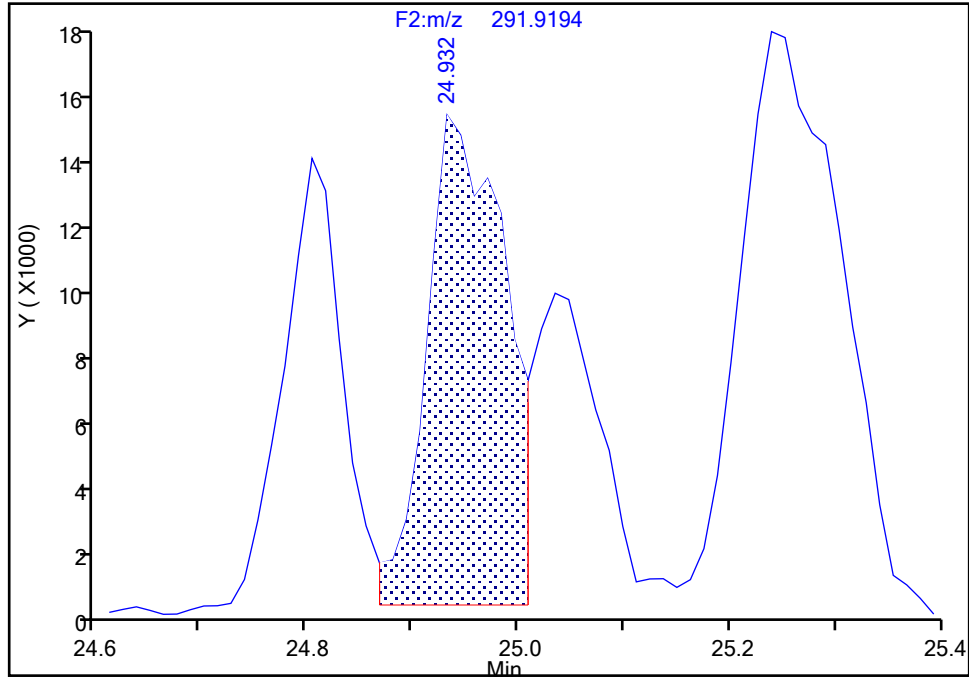
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

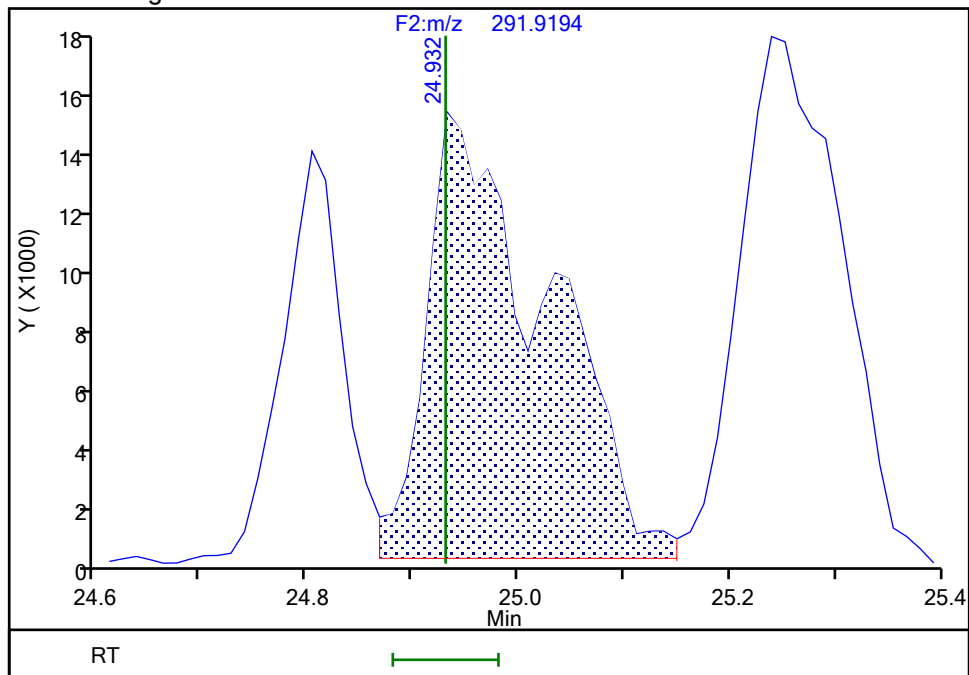
RT: 24.93
Area: 73369
Amount: 1.474080
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 114448
Amount: 2.004763
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 1876 of 3050

BASFWC-McIntosh-009877

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

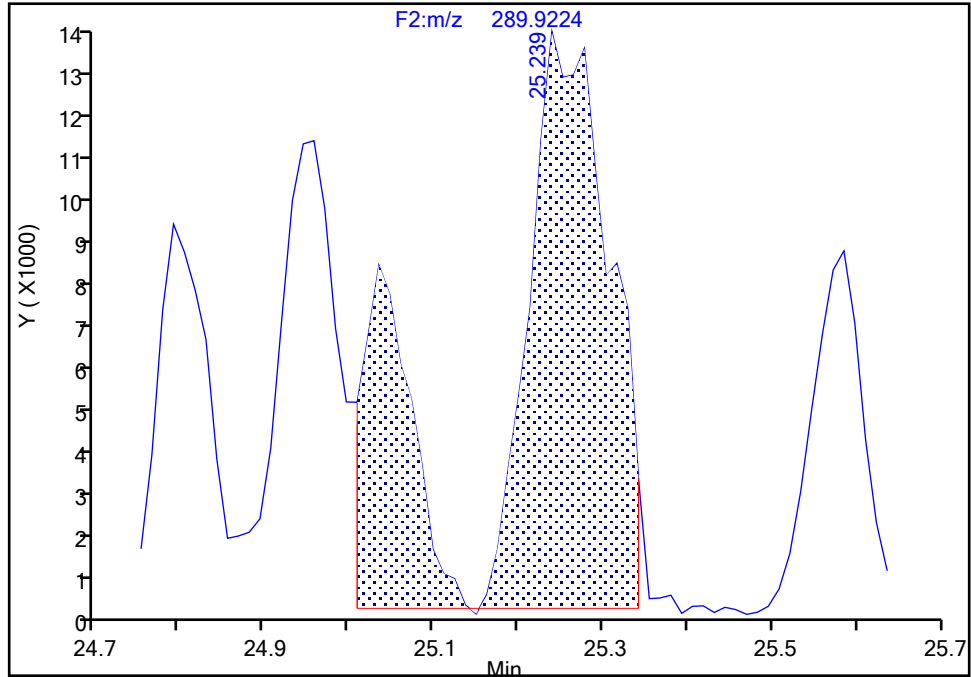
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 1

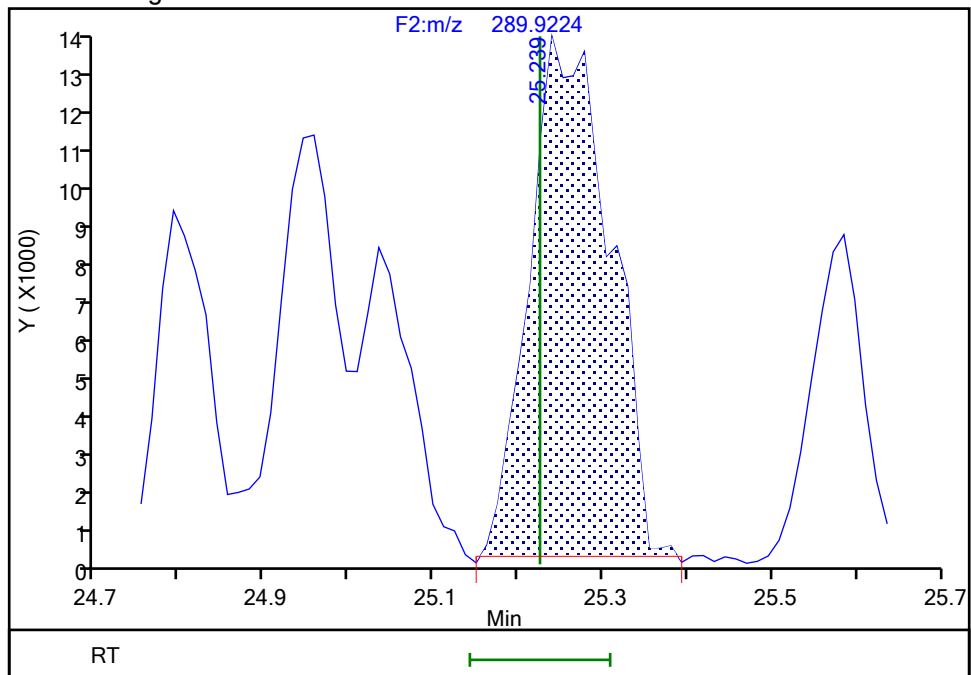
RT: 25.24
Area: 119546
Amount: 2.414363
Amount Units: pg/ul

Processing Integration Results



RT: 25.24
Area: 88756
Amount: 1.954885
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

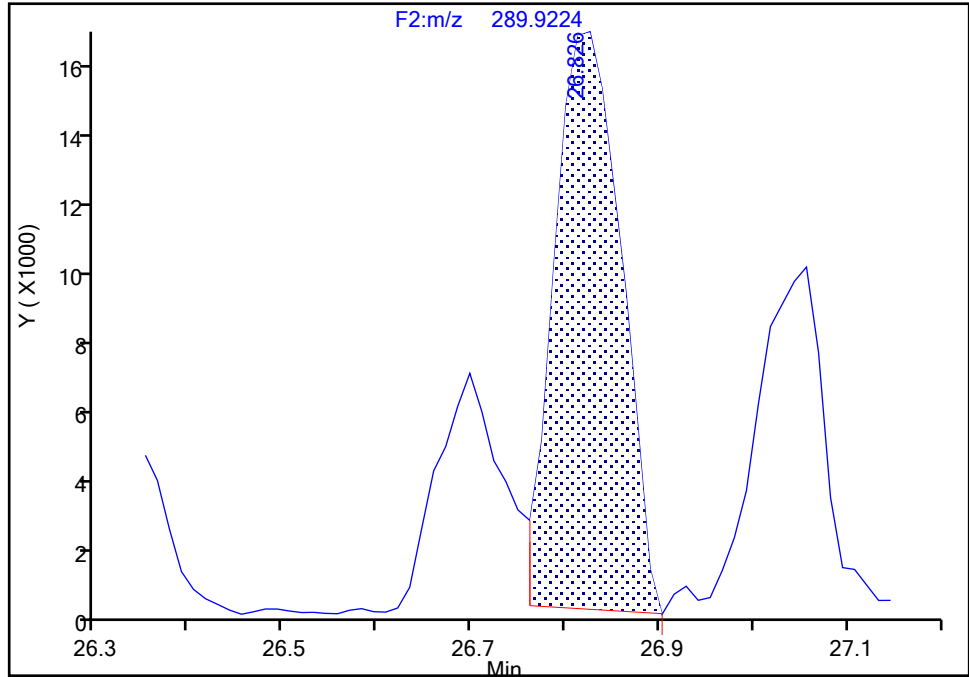
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

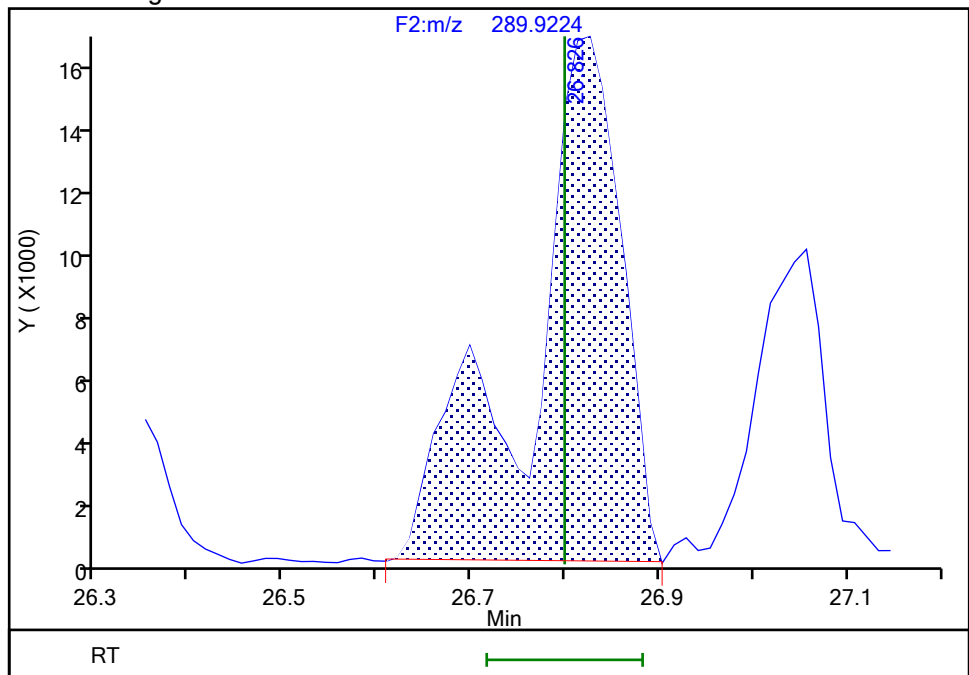
RT: 26.83
Area: 82680
Amount: 2.861341
Amount Units: pg/ul

Processing Integration Results



RT: 26.83
Area: 116094
Amount: 2.948431
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

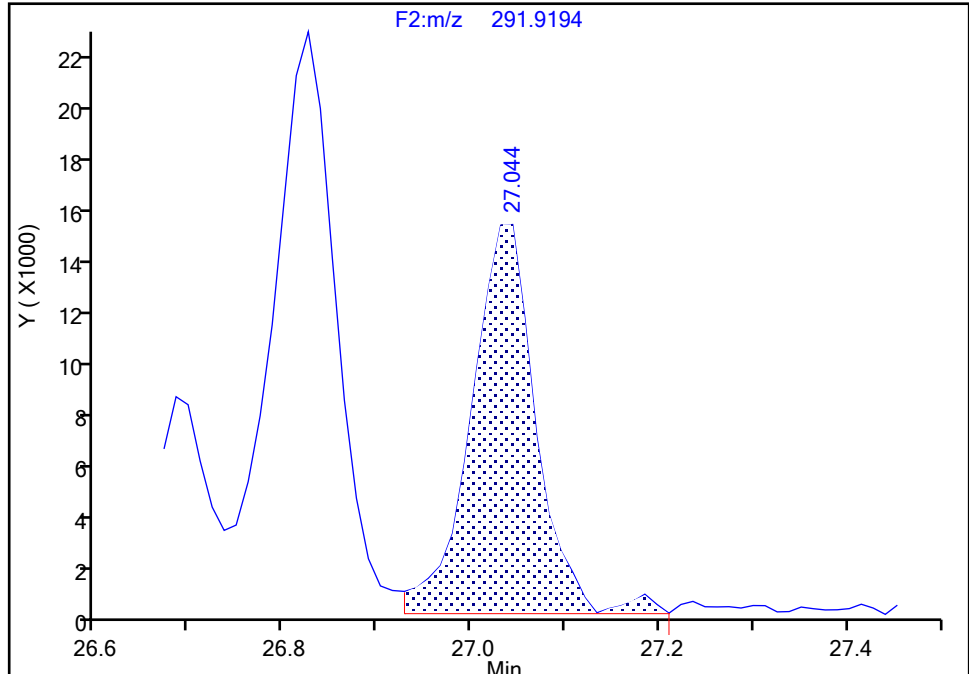
Detector F2(21.81 :35.54)

PCB-64, CAS: 52663-58-8

Signal: 2

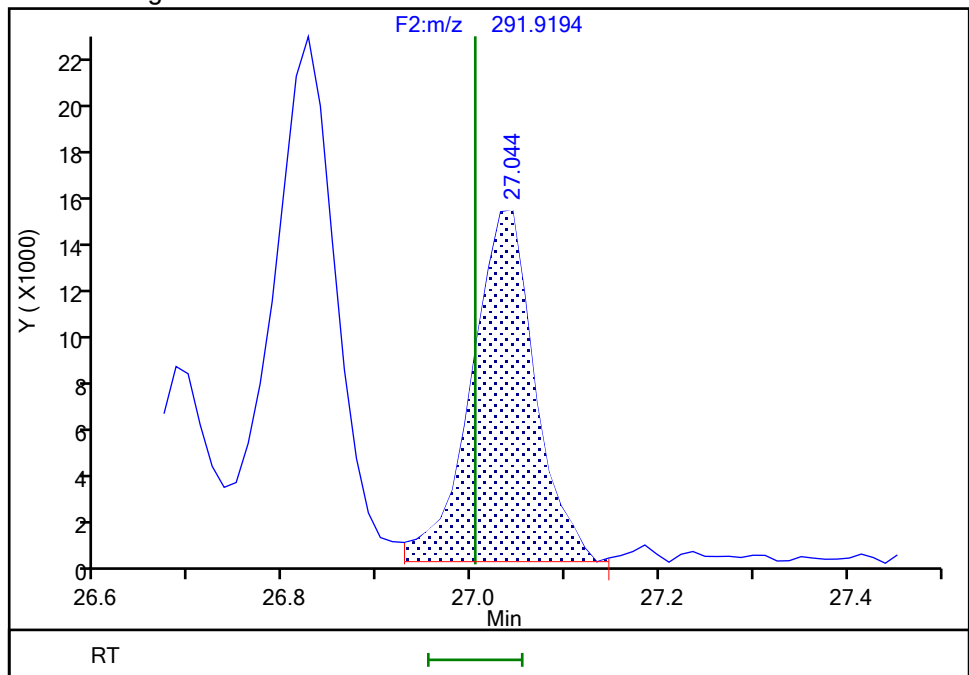
RT: 27.04
Area: 71055
Amount: 1.108123
Amount Units: pg/ul

Processing Integration Results



RT: 27.04
Area: 69628
Amount: 1.065987
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

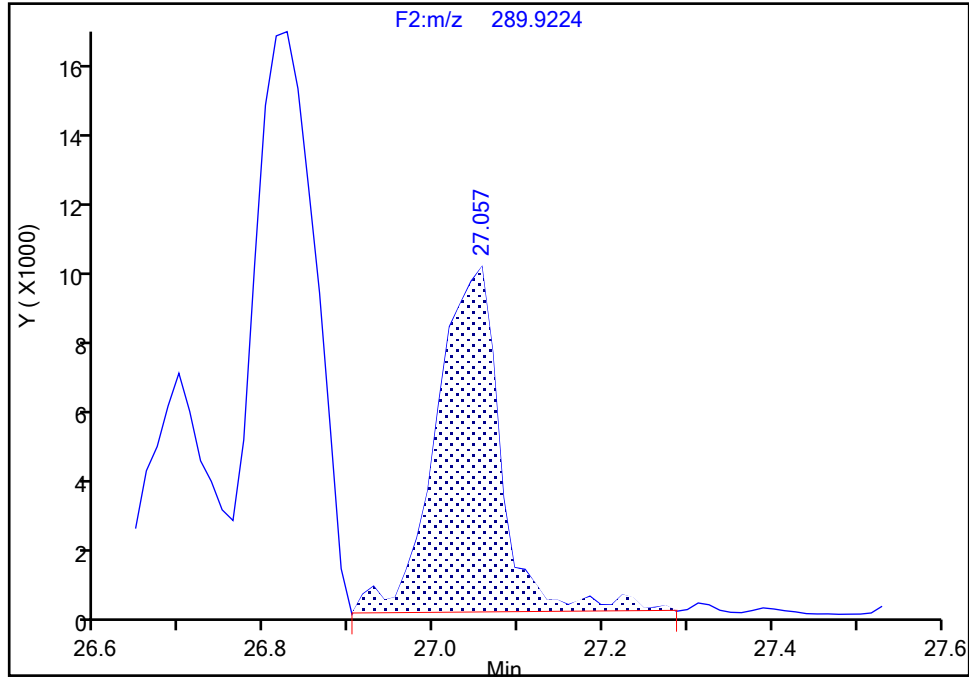
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-64, CAS: 52663-58-8

Signal: 1

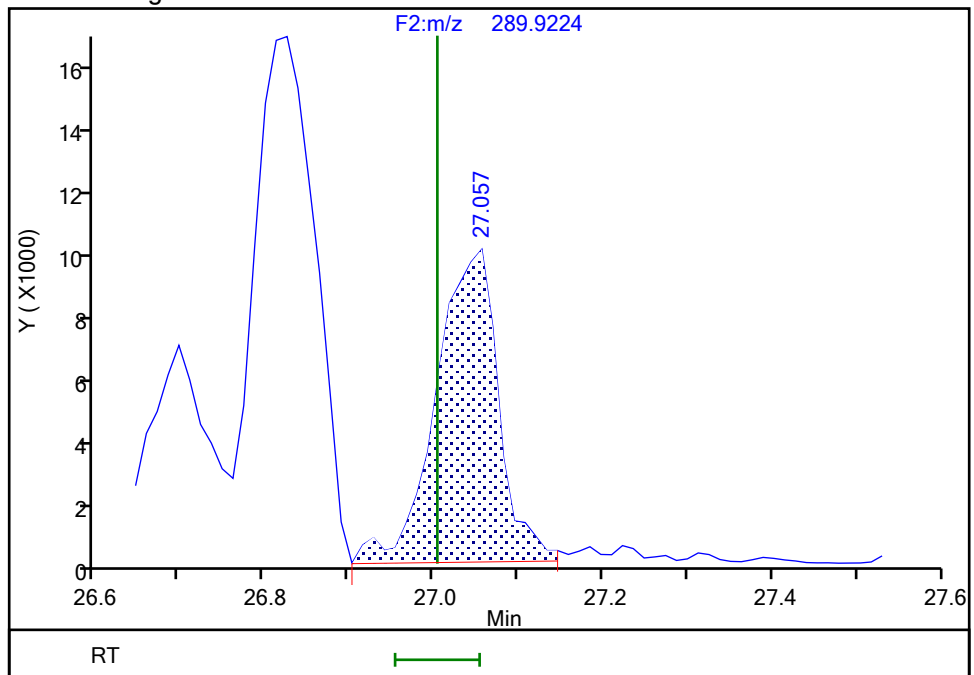
RT: 27.06
Area: 53878
Amount: 1.108123
Amount Units: pg/ul

Processing Integration Results



RT: 27.06
Area: 51698
Amount: 1.065987
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1880 of 3050

BASFWHC-McIntosh-009881

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

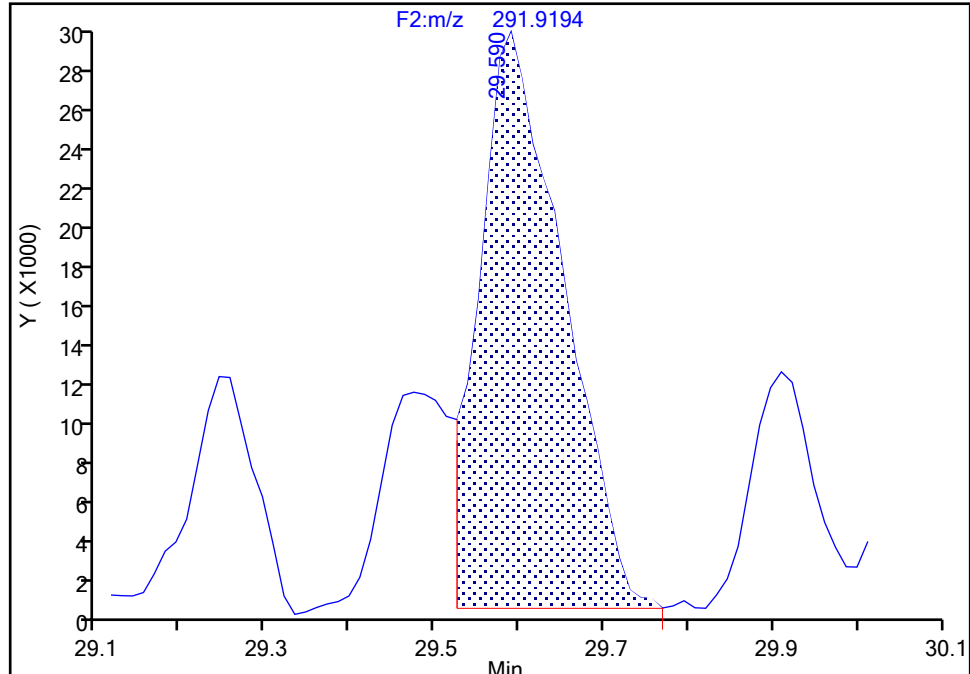
F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 2

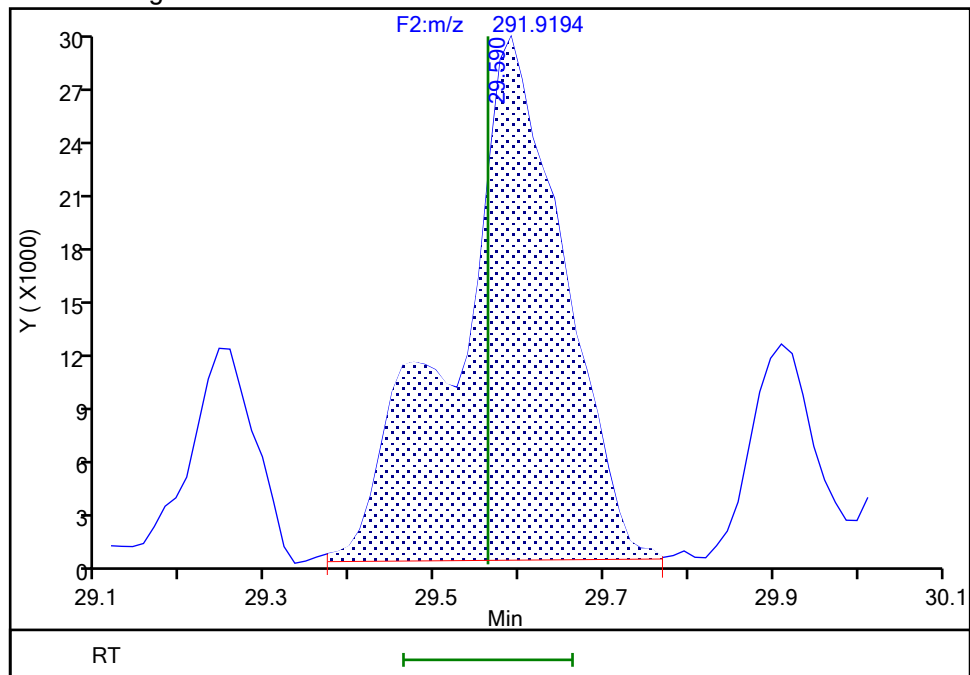
RT: 29.59
Area: 198737
Amount: 3.693416
Amount Units: pg/ul

Processing Integration Results



RT: 29.59
Area: 261662
Amount: 3.875831
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:04:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

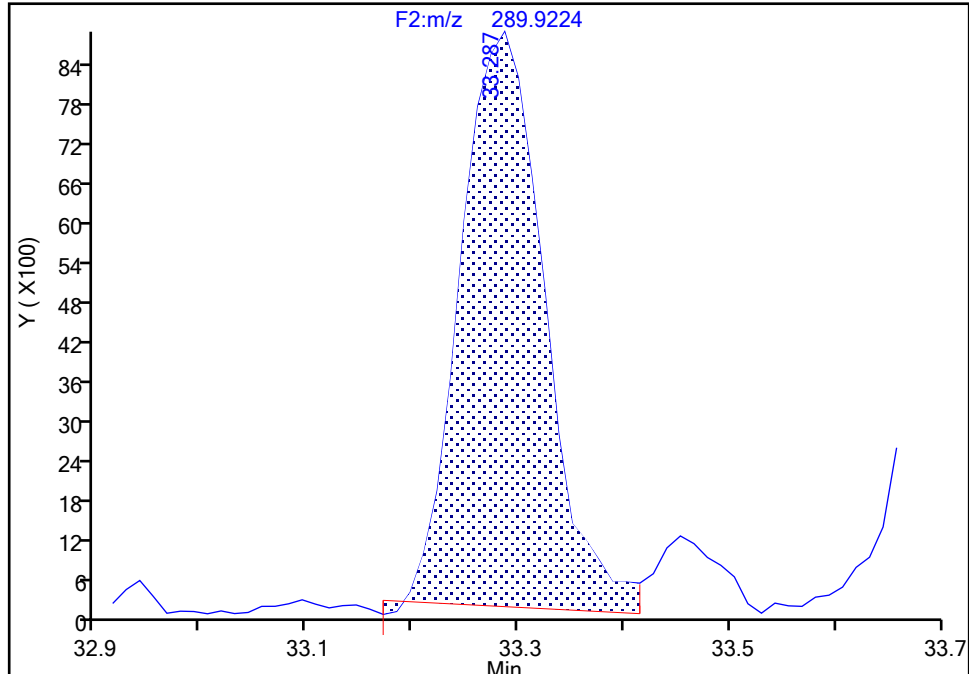
Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 1

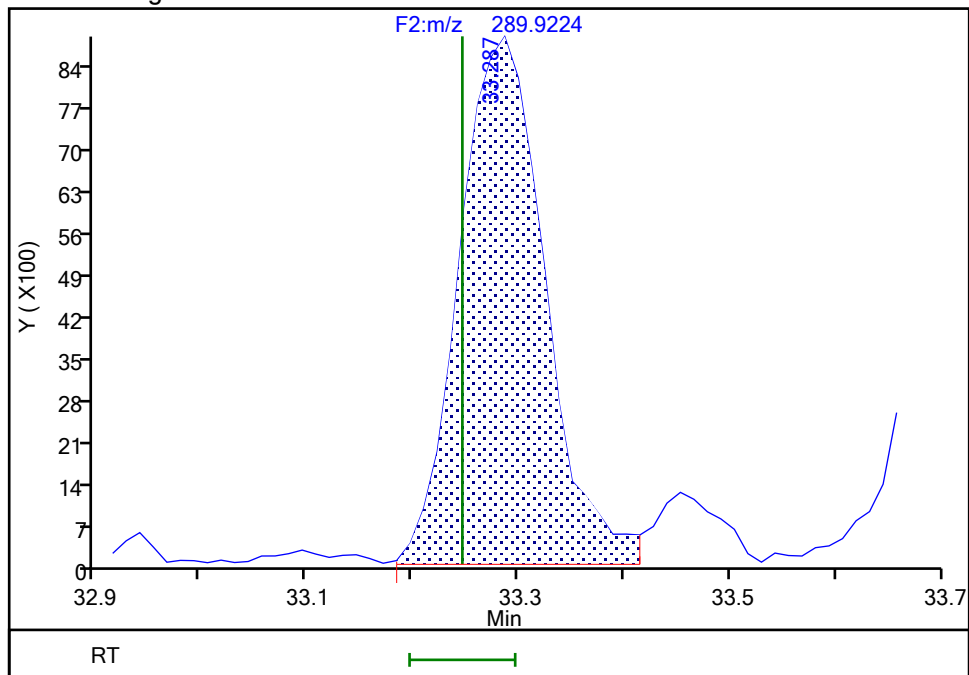
RT: 33.29
Area: 47957
Amount: 0.938957
Amount Units: pg/ul

Processing Integration Results



RT: 33.29
Area: 49349
Amount: 1.029788
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

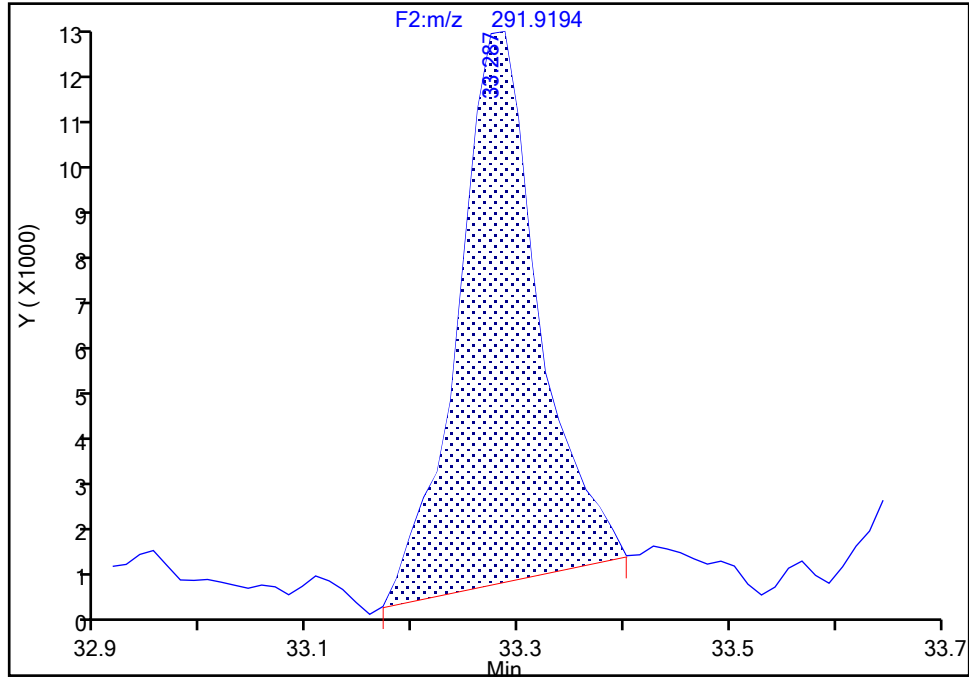
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 2

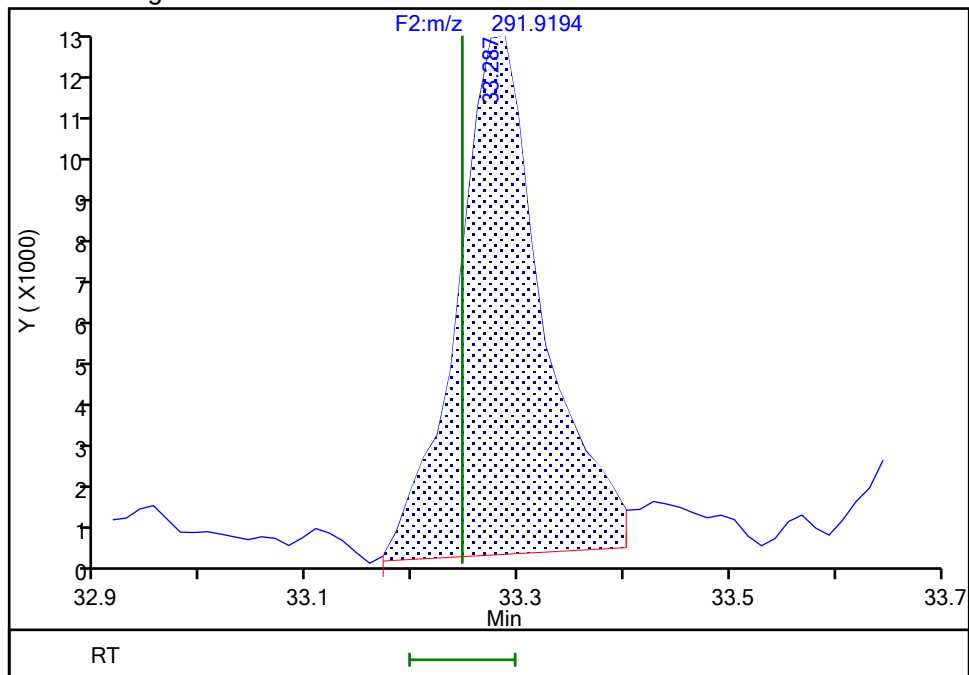
RT: 33.29
Area: 59884
Amount: 0.938957
Amount Units: pg/ul

Processing Integration Results



RT: 33.29
Area: 66291
Amount: 1.029788
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1883 of 3050

BASFWC-McIntosh-009884

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

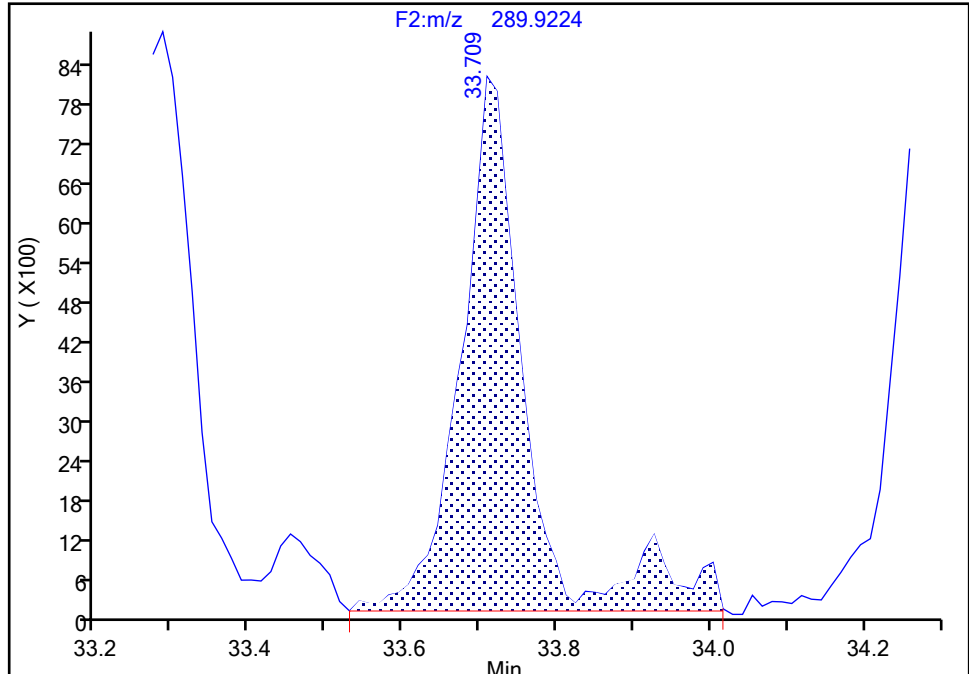
Detector F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 1

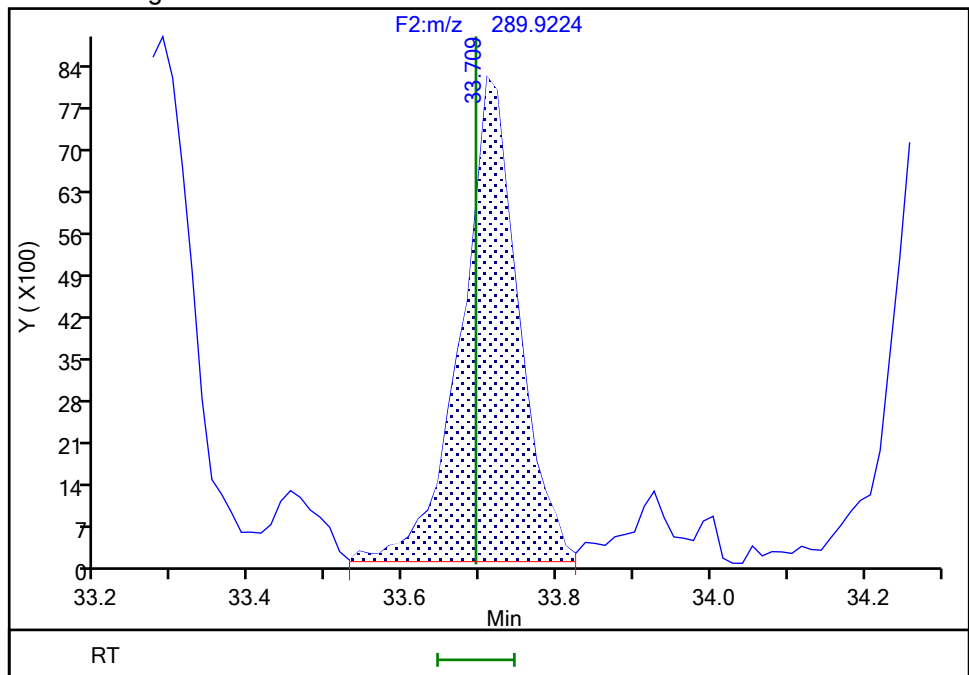
RT: 33.71
Area: 47878
Amount: 1.089091
Amount Units: pg/ul

Processing Integration Results



RT: 33.71
Area: 41953
Amount: 1.014645
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

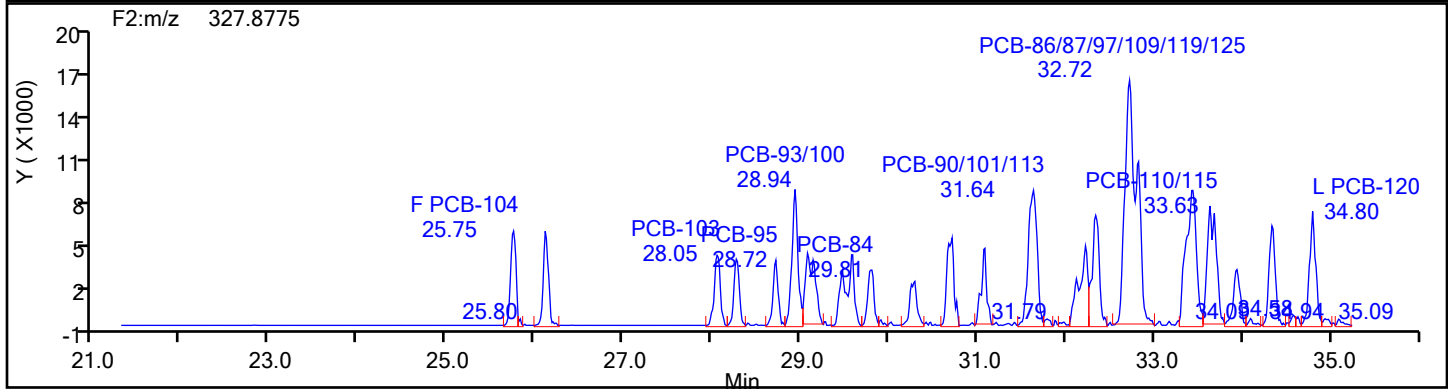
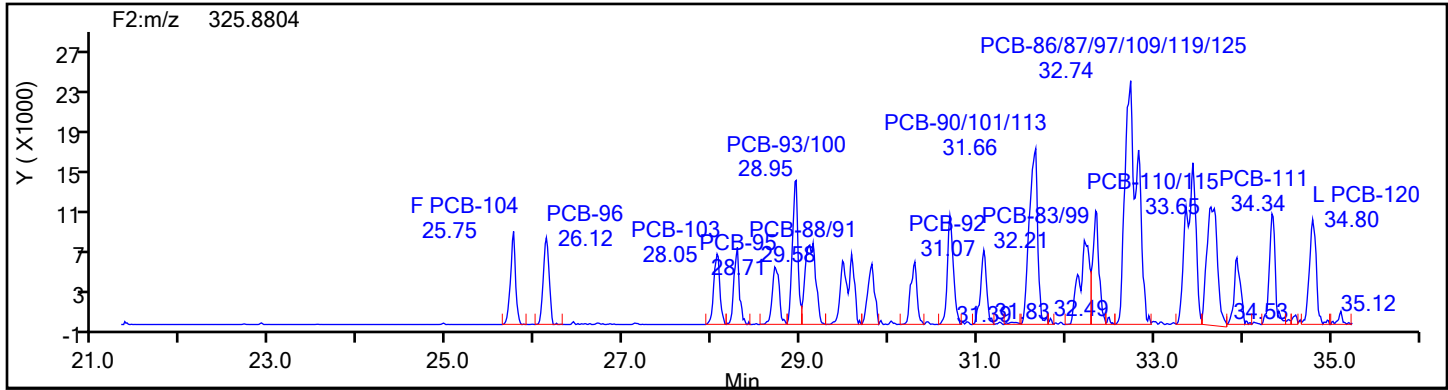
Worklist#: 87130

Sample Line#: 2

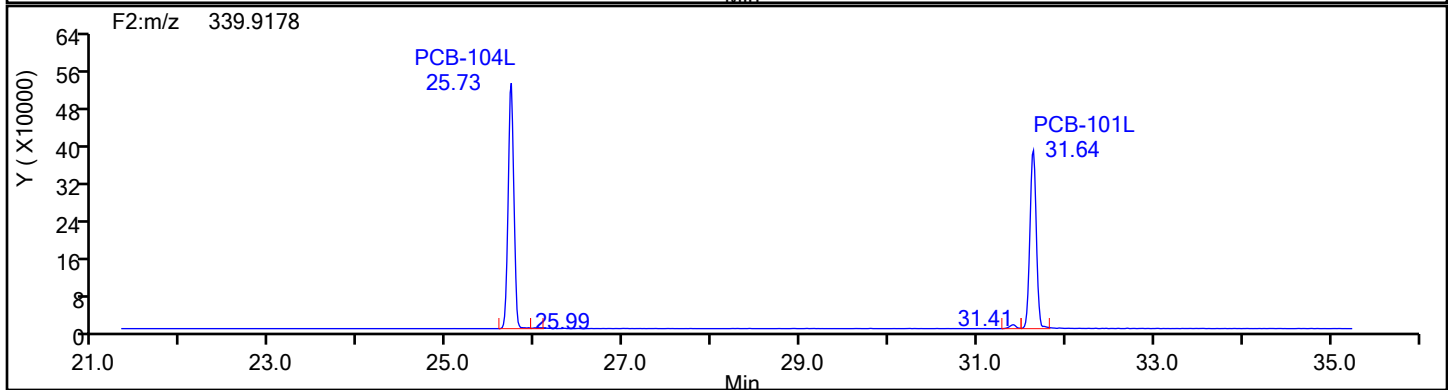
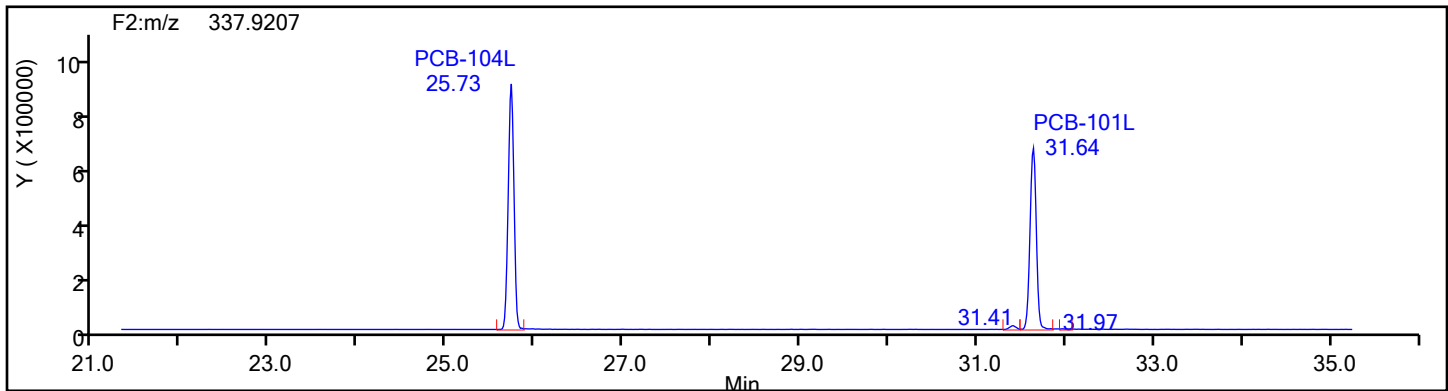
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

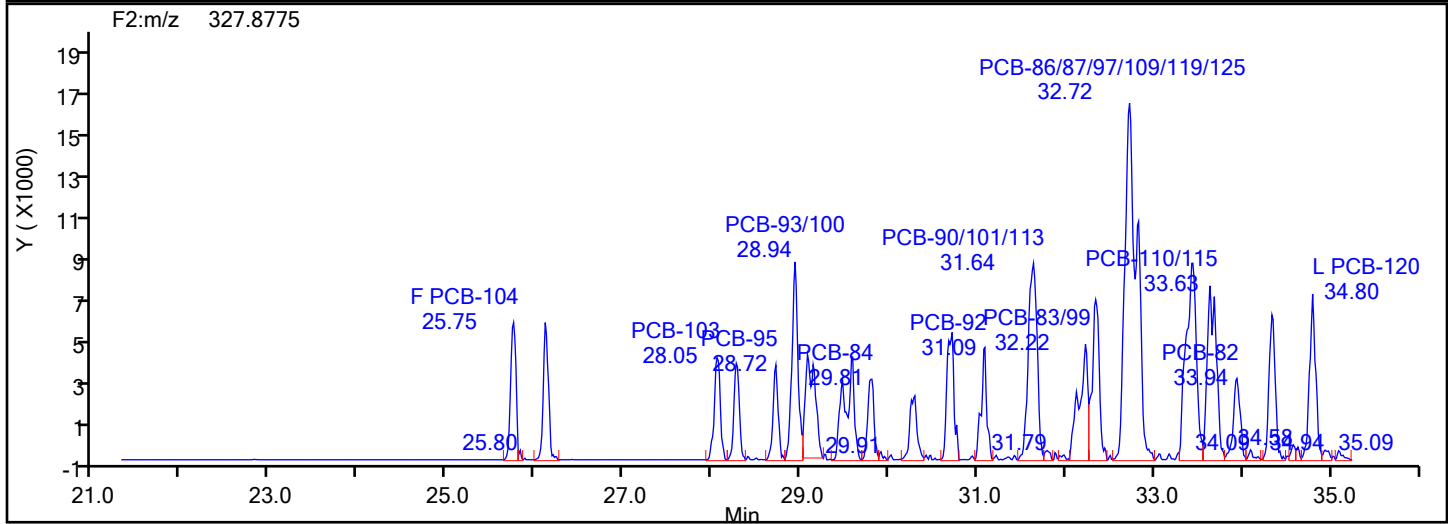
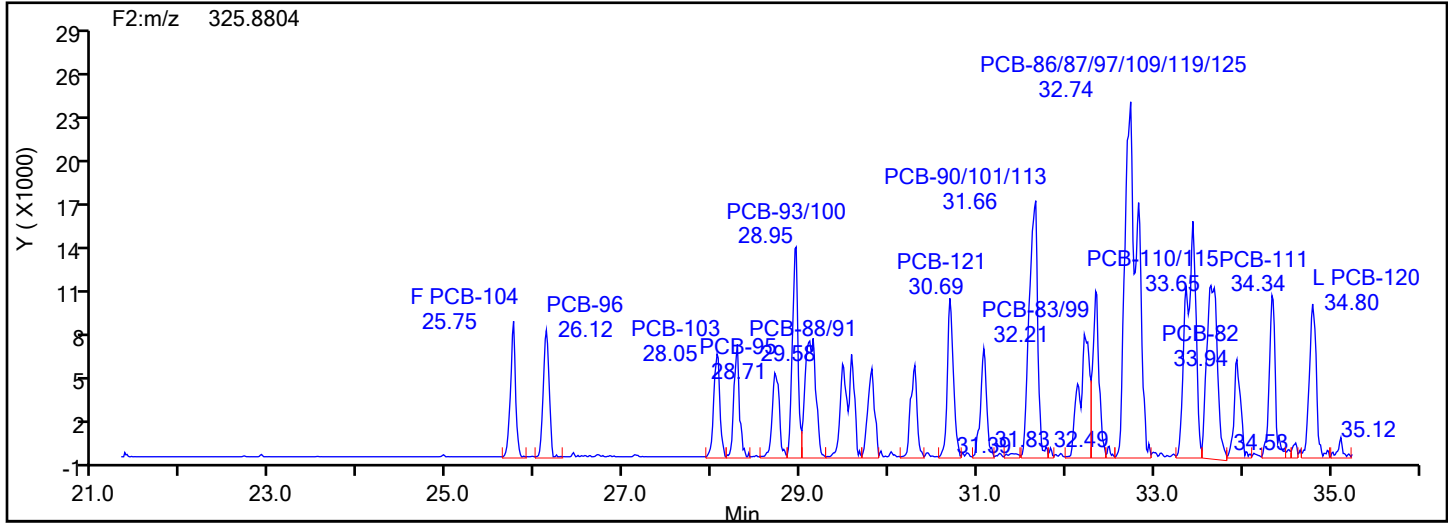
Worklist#: 87130

Sample Line#: 2

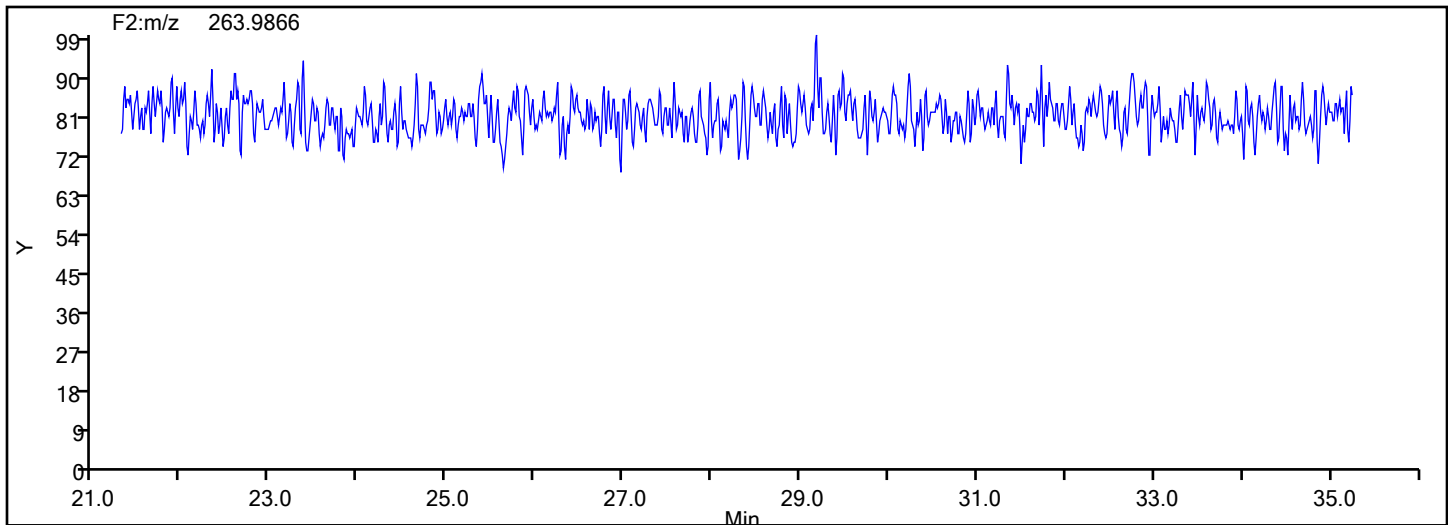
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

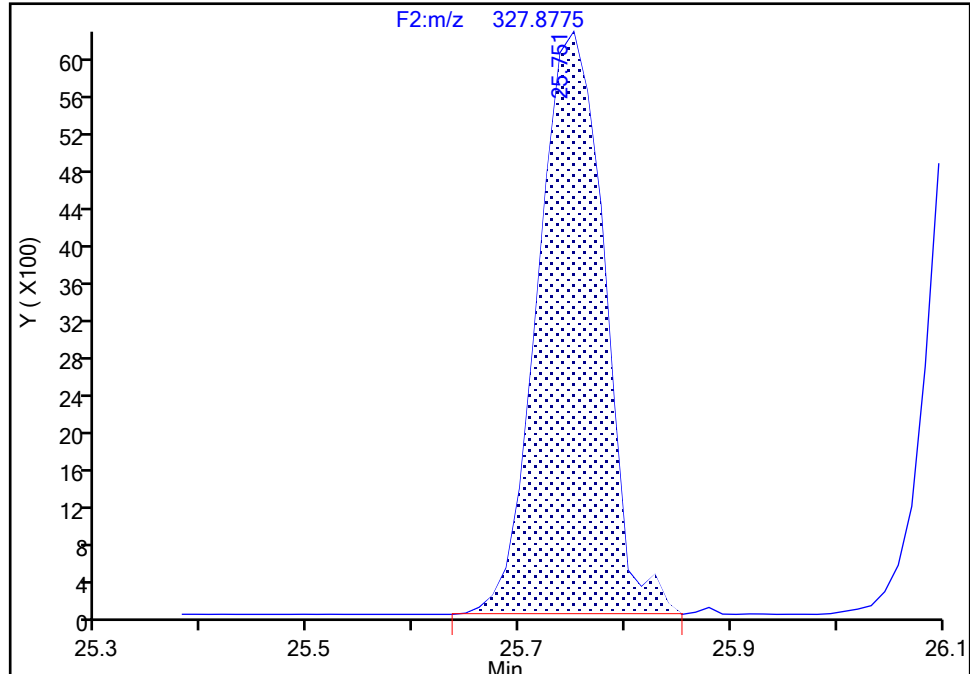
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-104, CAS: 56558-16-8

Signal: 2

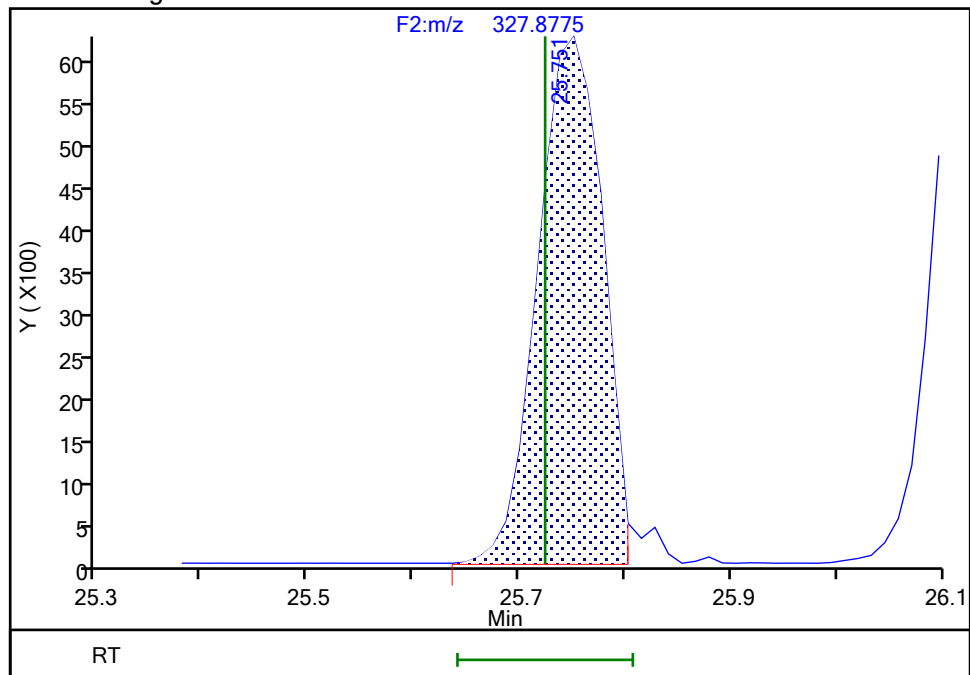
RT: 25.75
Area: 27177
Amount: 0.988513
Amount Units: pg/ul

Processing Integration Results



RT: 25.75
Area: 26359
Amount: 0.977407
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:55:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

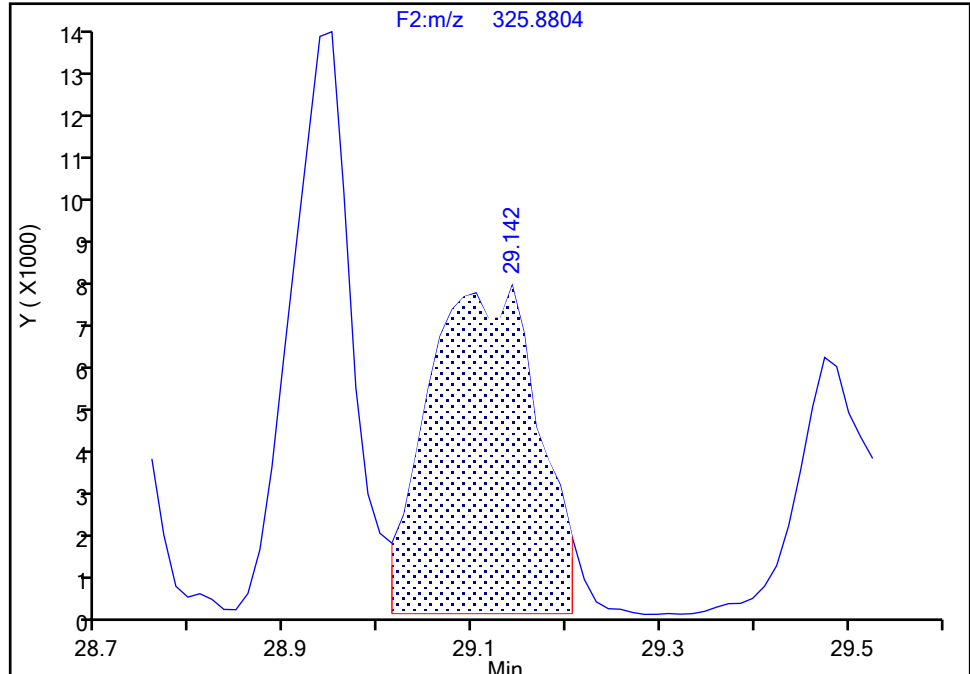
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

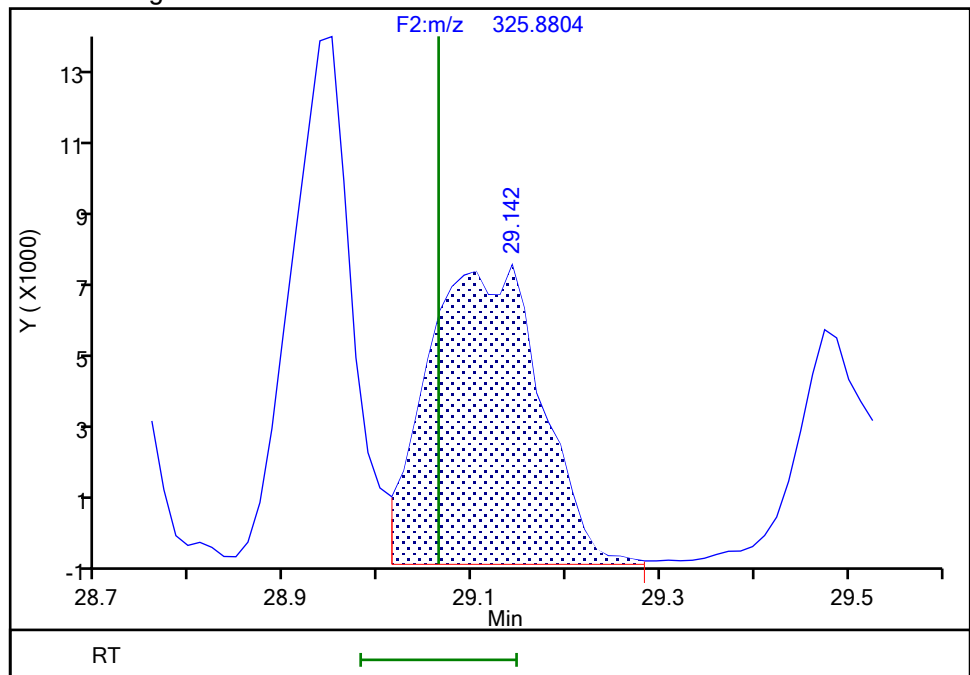
RT: 29.14
Area: 63005
Amount: 1.537926
Amount Units: pg/ul

Processing Integration Results



RT: 29.14
Area: 65793
Amount: 1.974400
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

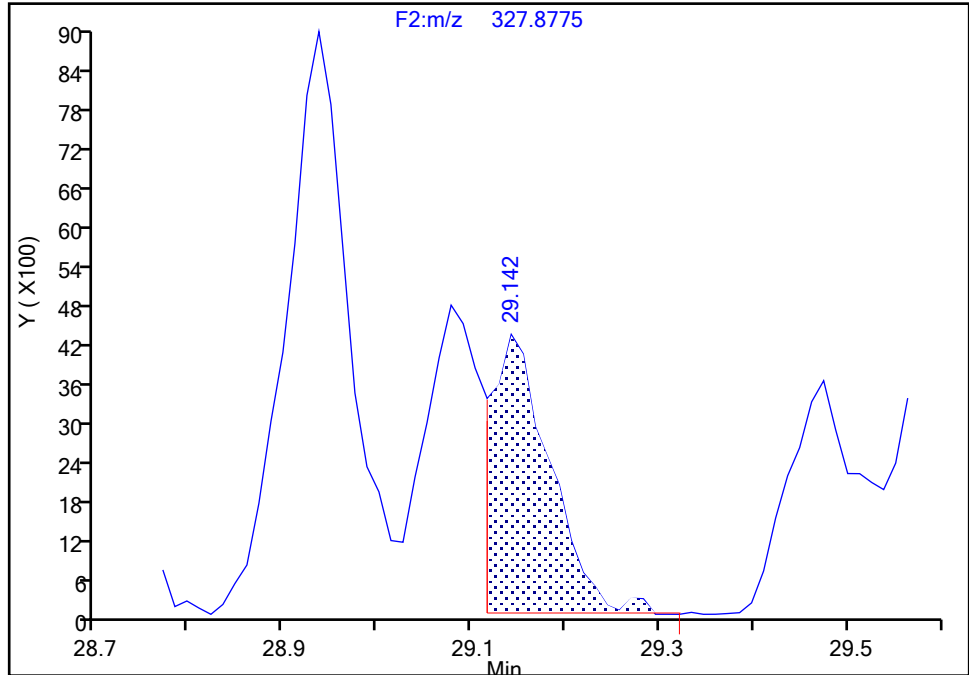
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

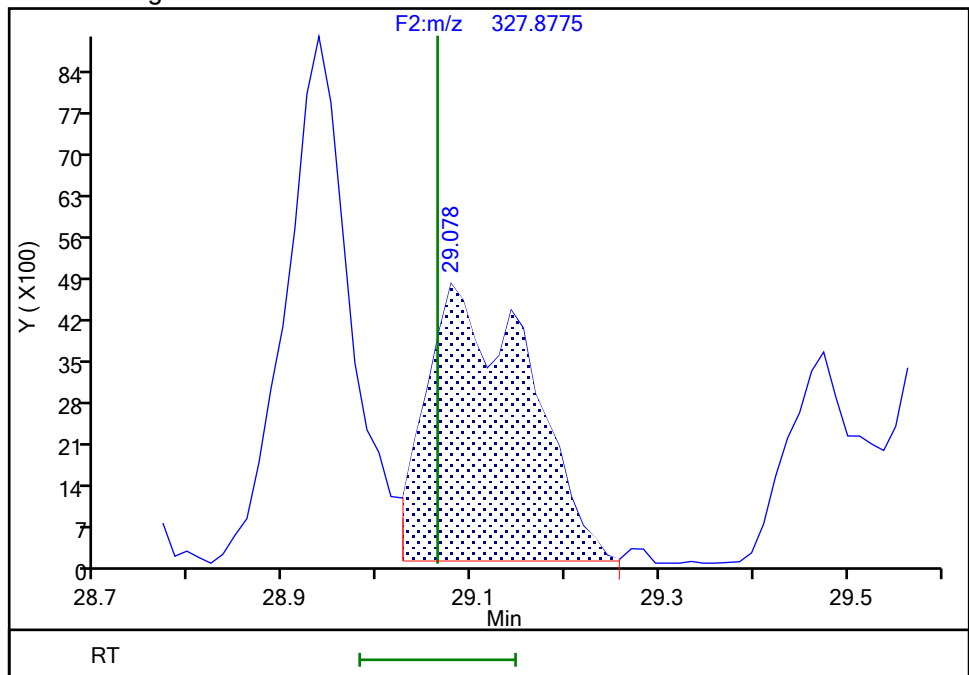
RT: 29.14
Area: 18201
Amount: 1.537926
Amount Units: pg/ul

Processing Integration Results



RT: 29.08
Area: 36004
Amount: 1.974400
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1889 of 3050

BASFWC-McIntosh-009890

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

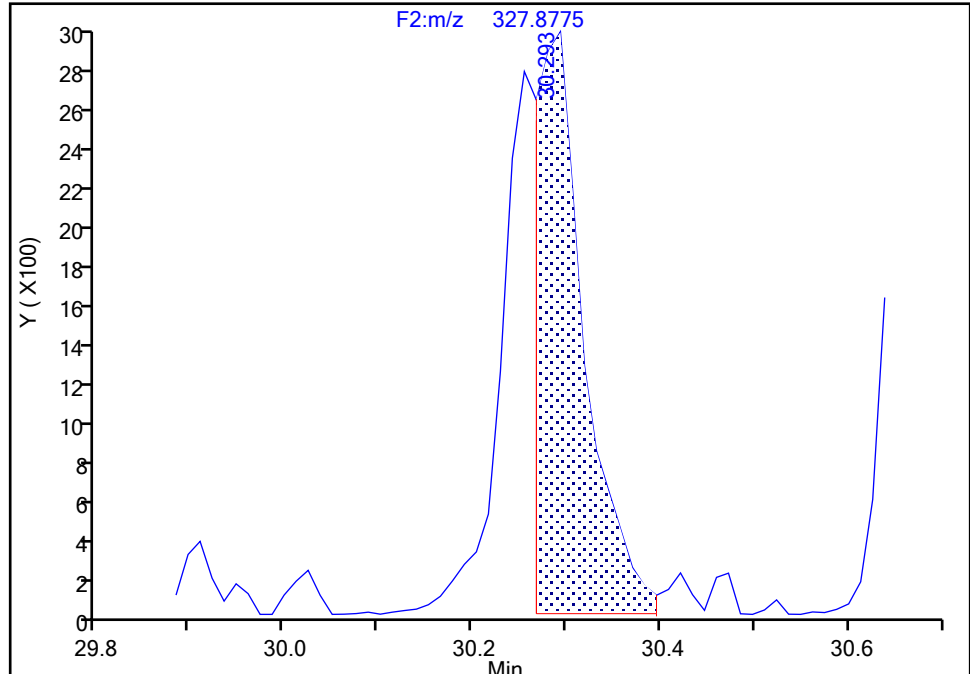
Detector F2(21.81 :35.54)

PCB-89, CAS: 73575-57-2

Signal: 2

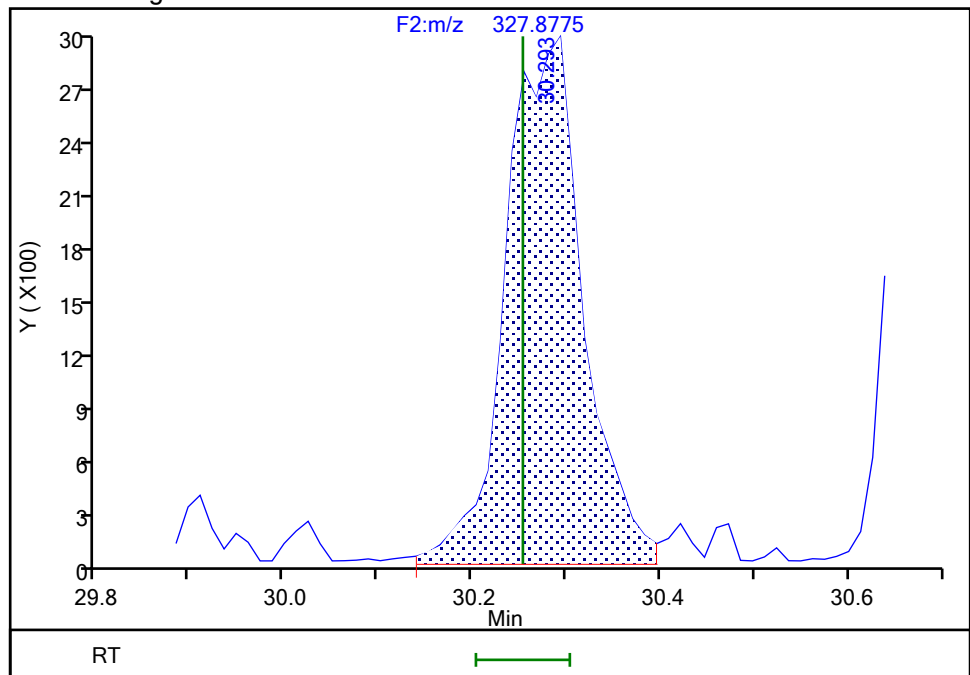
RT: 30.29
Area: 9688
Amount: 0.784234
Amount Units: pg/ul

Processing Integration Results



RT: 30.29
Area: 16658
Amount: 0.957137
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

F2(21.81 :35.54)

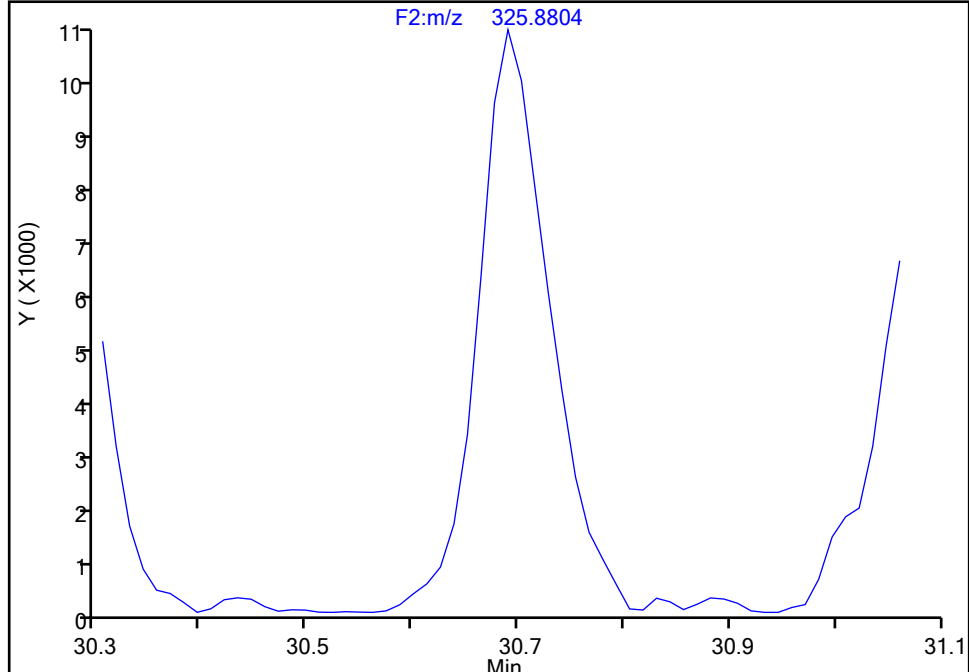
PCB-121, CAS: 56558-18-0

Signal: 1

Not Detected

Expected RT: 30.68

Processing Integration Results



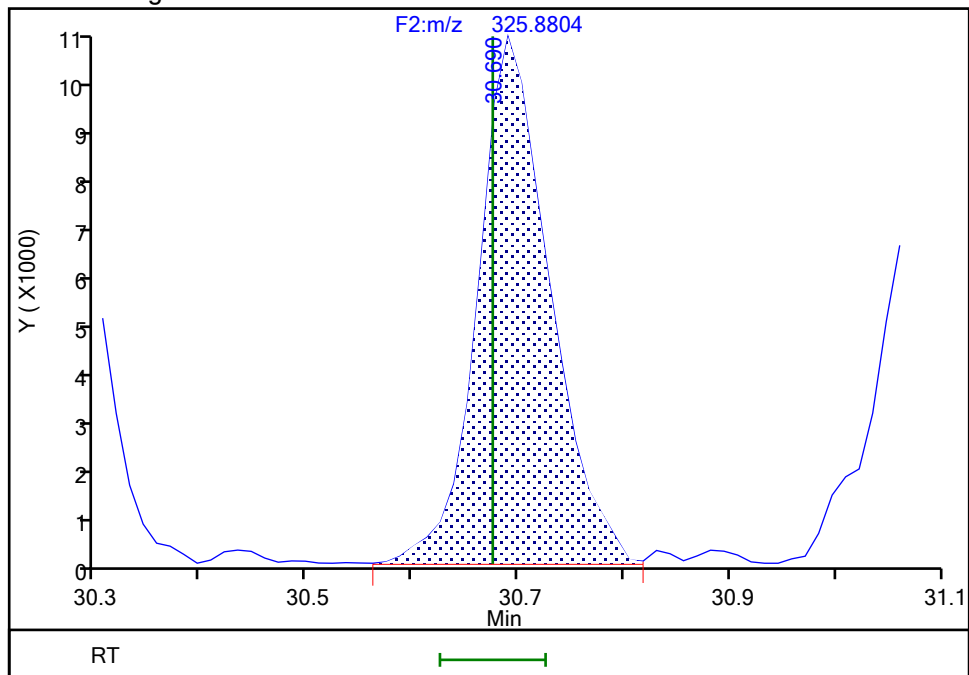
RT: 30.69

Area: 49412

Amount: 1.016498

Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

Eurofins Knoxville

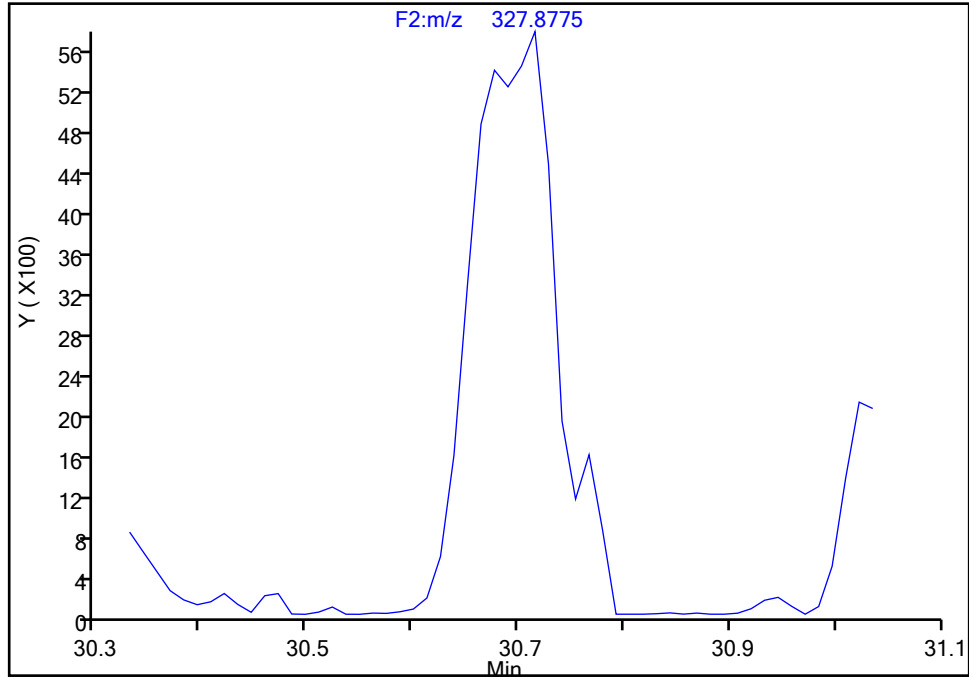
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 2

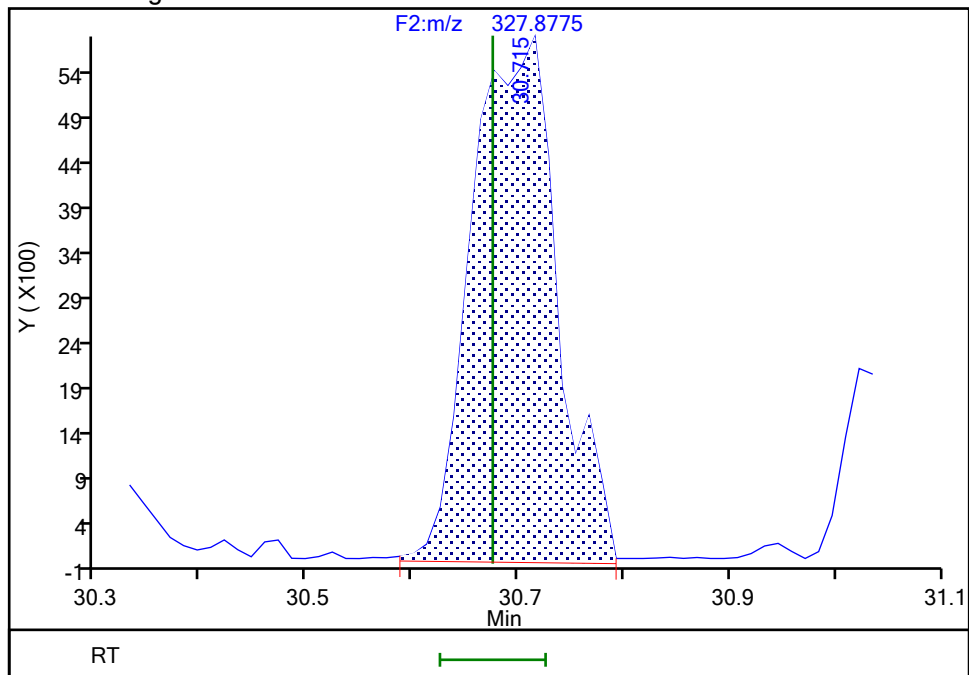
Not Detected
Expected RT: 30.68

Processing Integration Results



RT: 30.72
Area: 32828
Amount: 1.016498
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1892 of 3050

BASFWC-McIntosh-009893

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

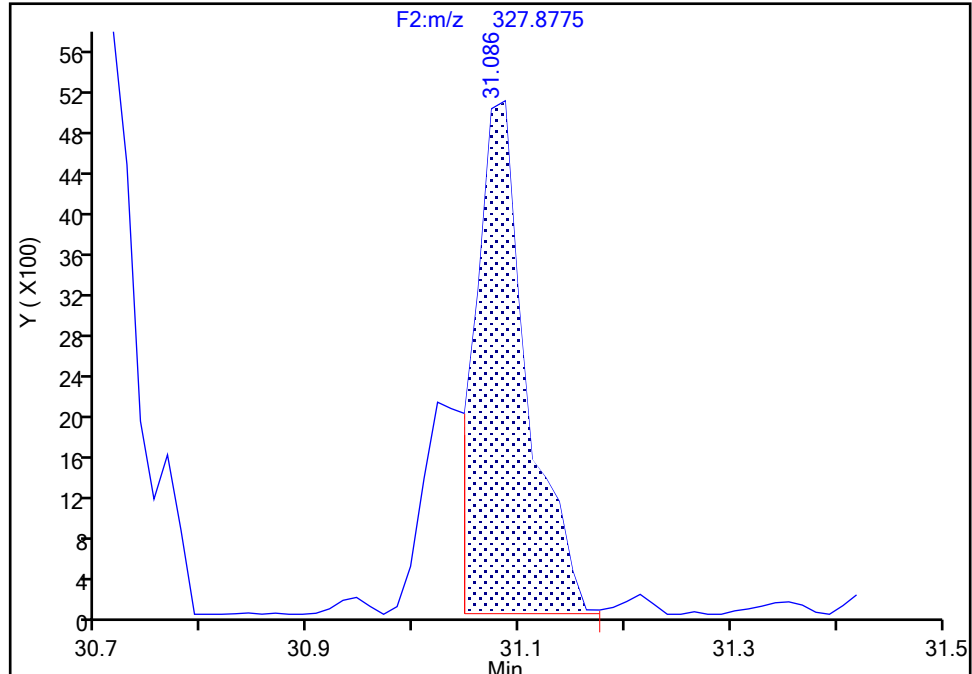
F2(21.81 :35.54)

PCB-92, CAS: 52663-61-3

Signal: 2

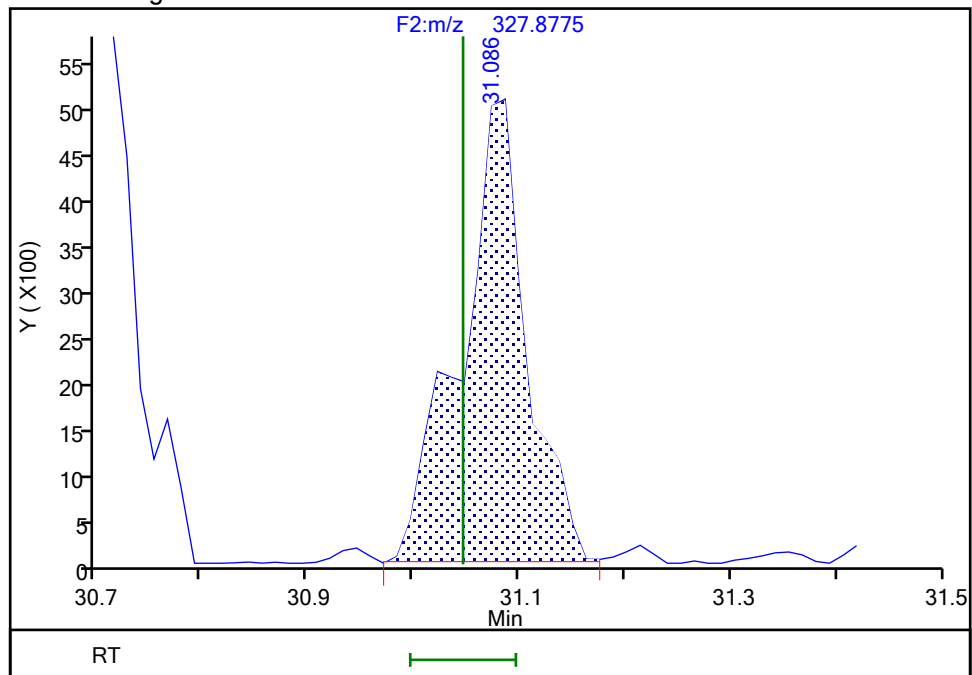
RT: 31.09
Area: 16788
Amount: 1.003564
Amount Units: pg/ul

Processing Integration Results



RT: 31.09
Area: 22142
Amount: 1.060190
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

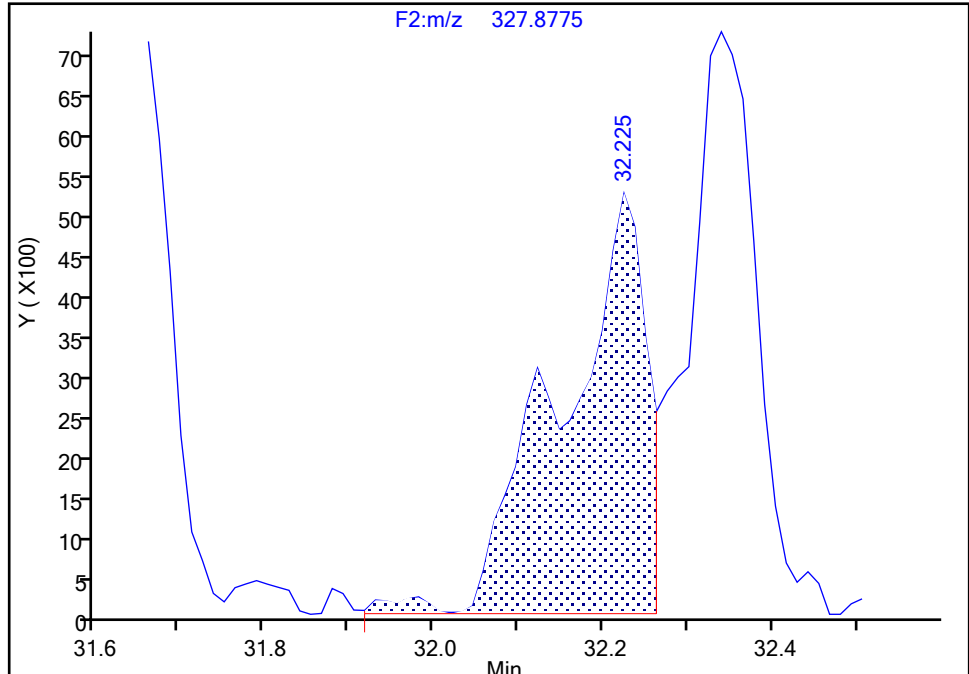
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-83/99, CAS: STL01809

Signal: 2

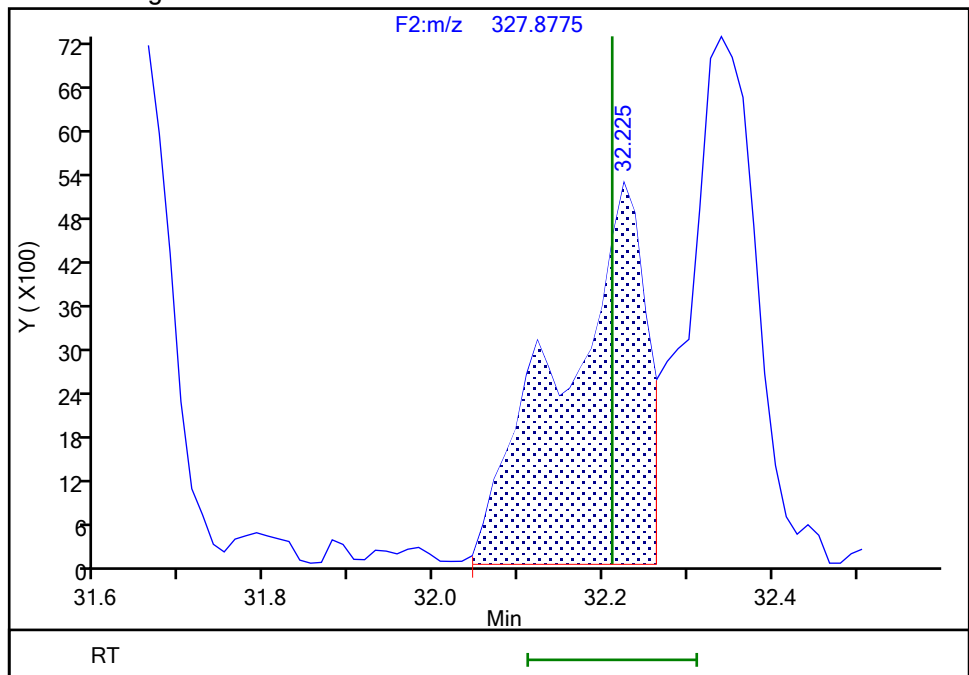
RT: 32.22
Area: 36700
Amount: 1.880198
Amount Units: pg/ul

Processing Integration Results



RT: 32.22
Area: 35800
Amount: 1.935817
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

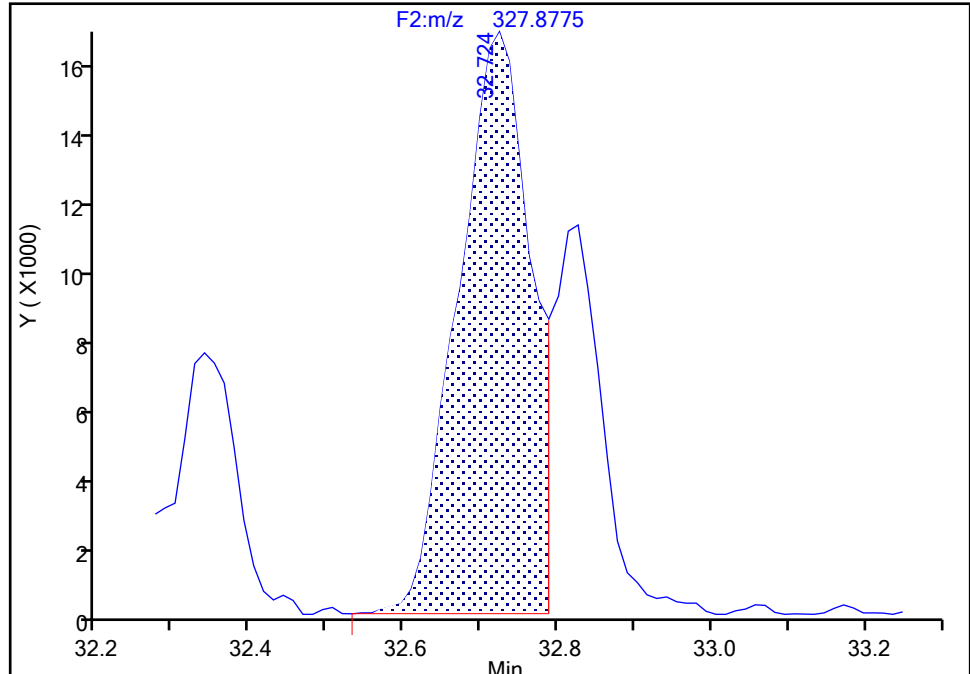
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

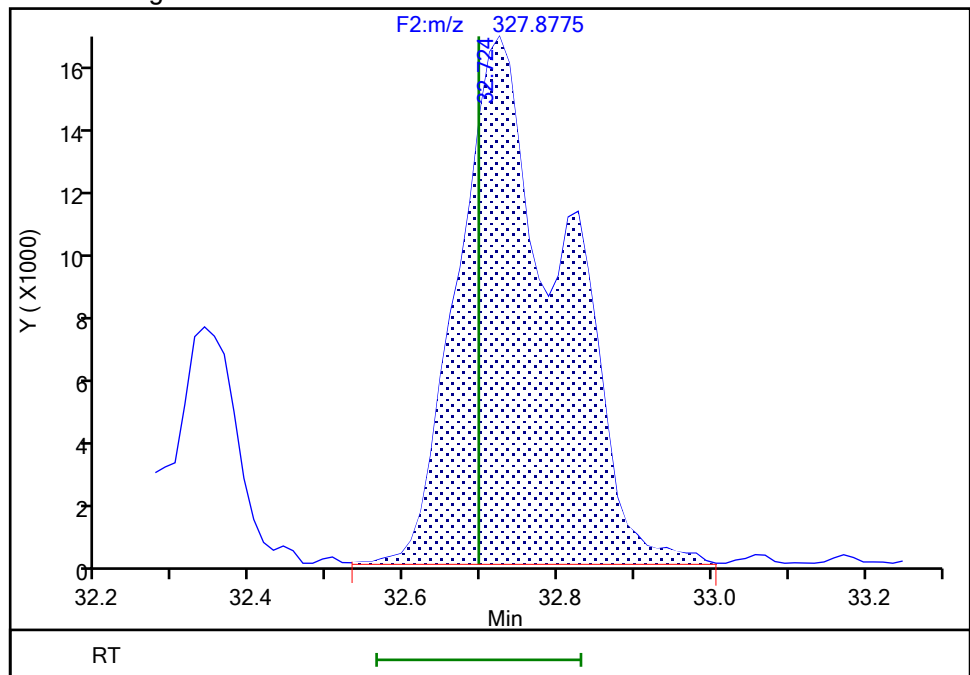
RT: 32.72
Area: 104672
Amount: 5.584559
Amount Units: pg/ul

Processing Integration Results



RT: 32.72
Area: 151456
Amount: 5.816787
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

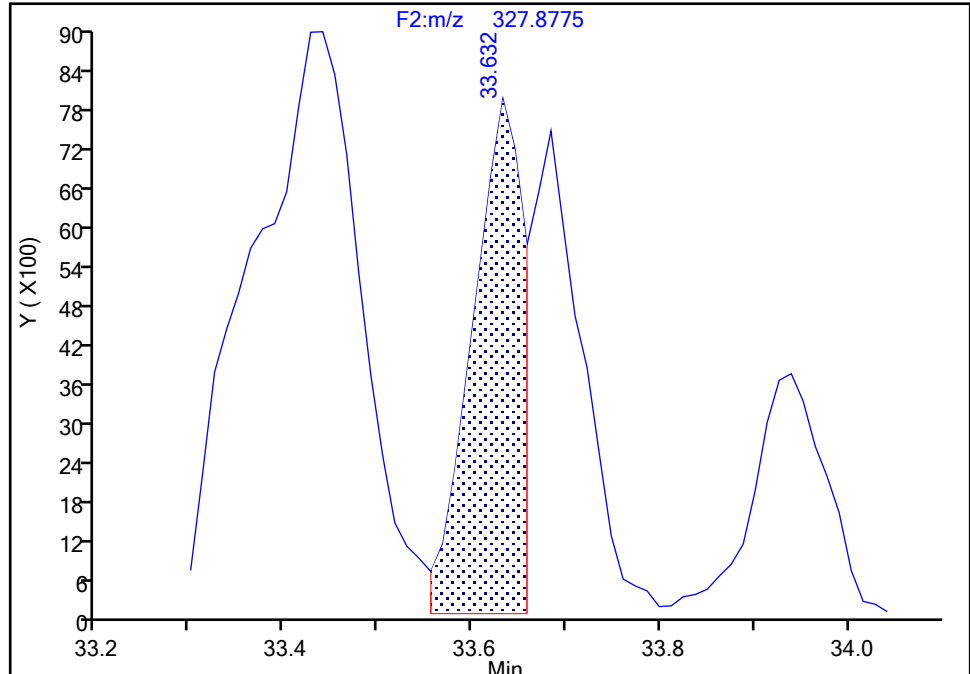
Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

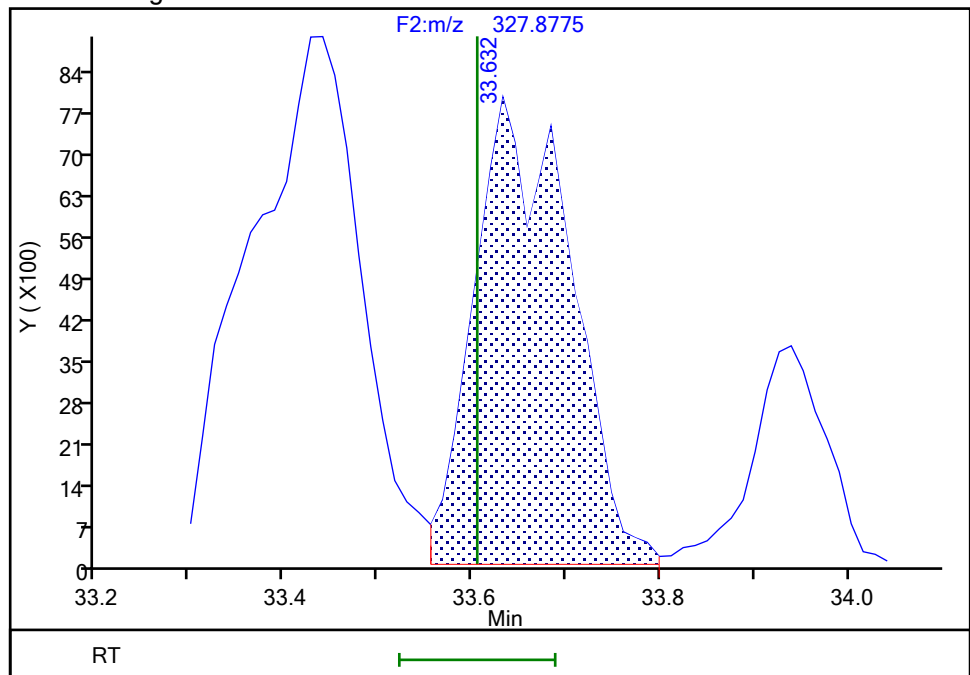
RT: 33.63
Area: 28445
Amount: 1.050678
Amount Units: pg/ul

Processing Integration Results



RT: 33.63
Area: 56088
Amount: 2.059020
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

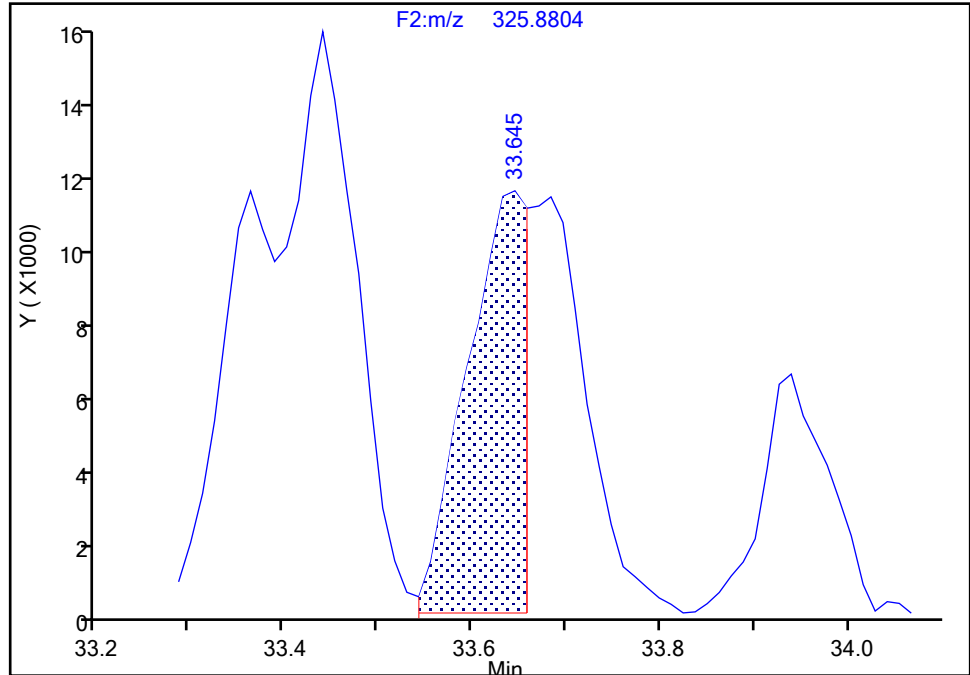
F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 1

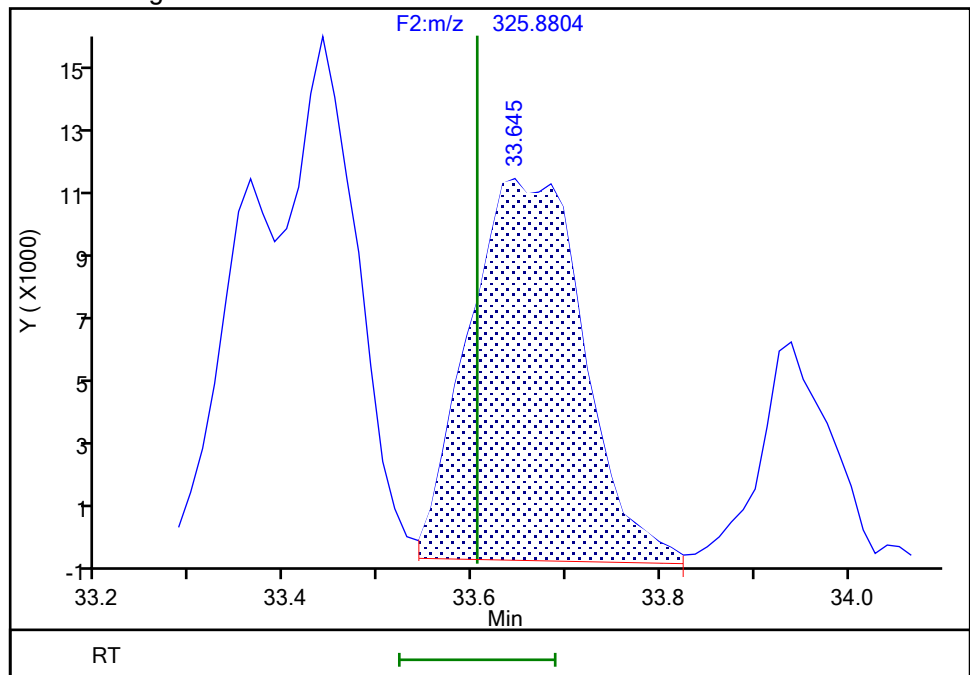
RT: 33.65
Area: 47401
Amount: 1.050678
Amount Units: pg/ul

Processing Integration Results



RT: 33.65
Area: 97064
Amount: 2.059020
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1897 of 3050

BASFWHC-McIntosh-009898

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

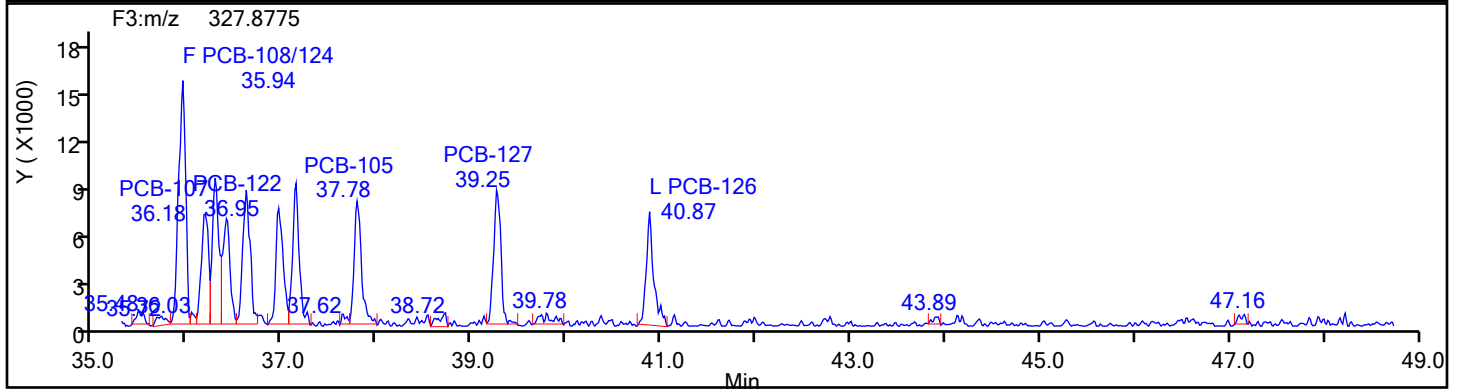
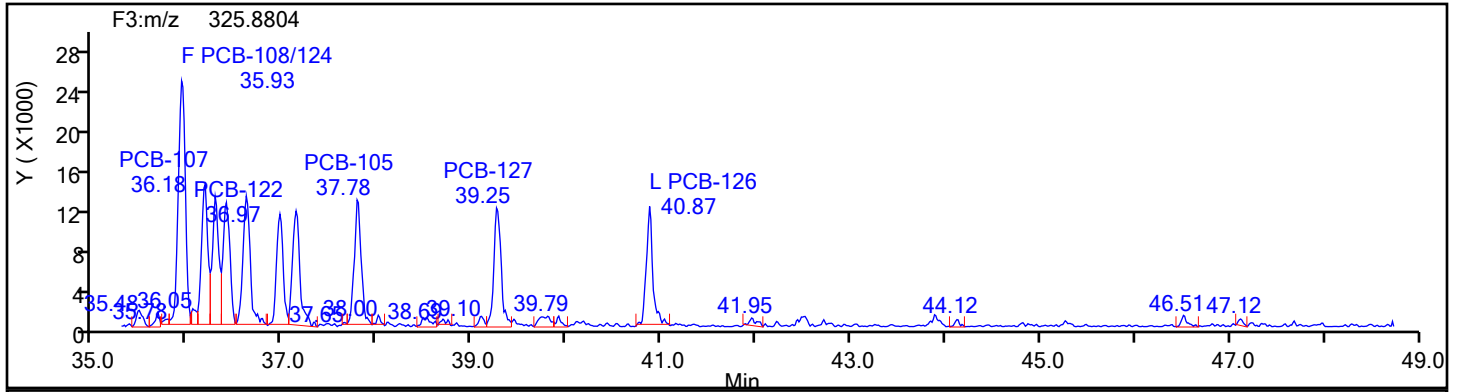
Worklist#: 87130

Sample Line#: 2

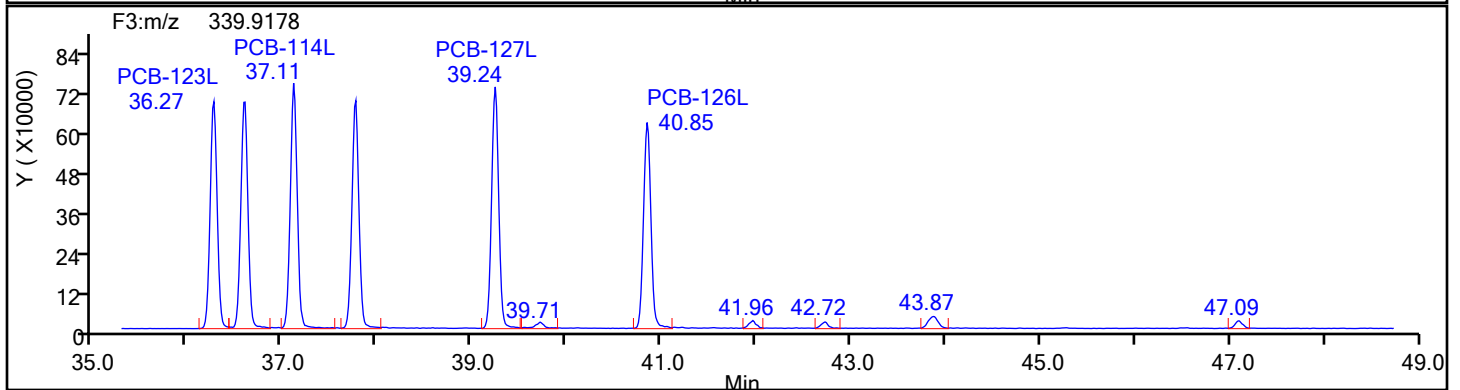
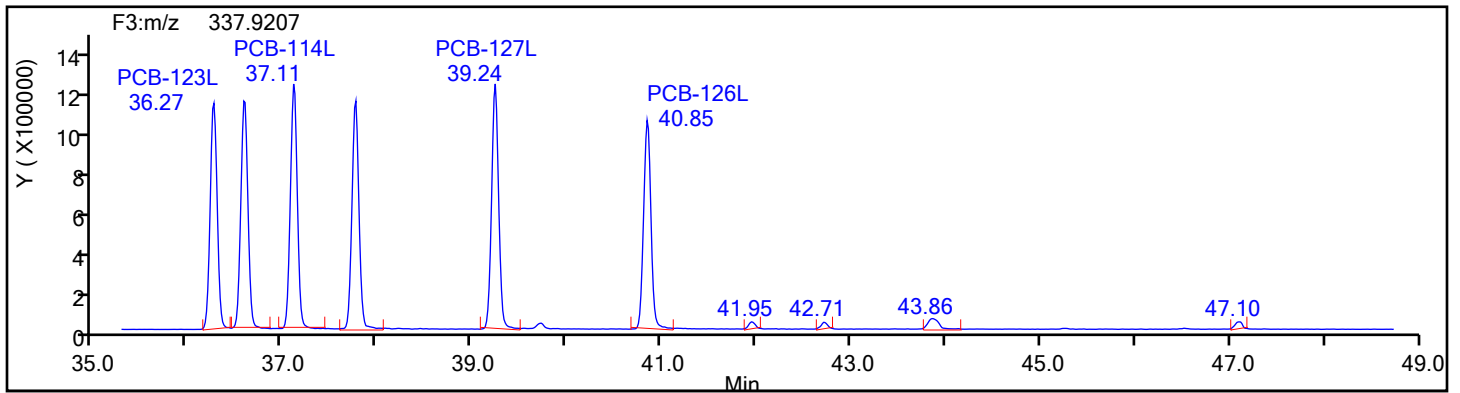
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

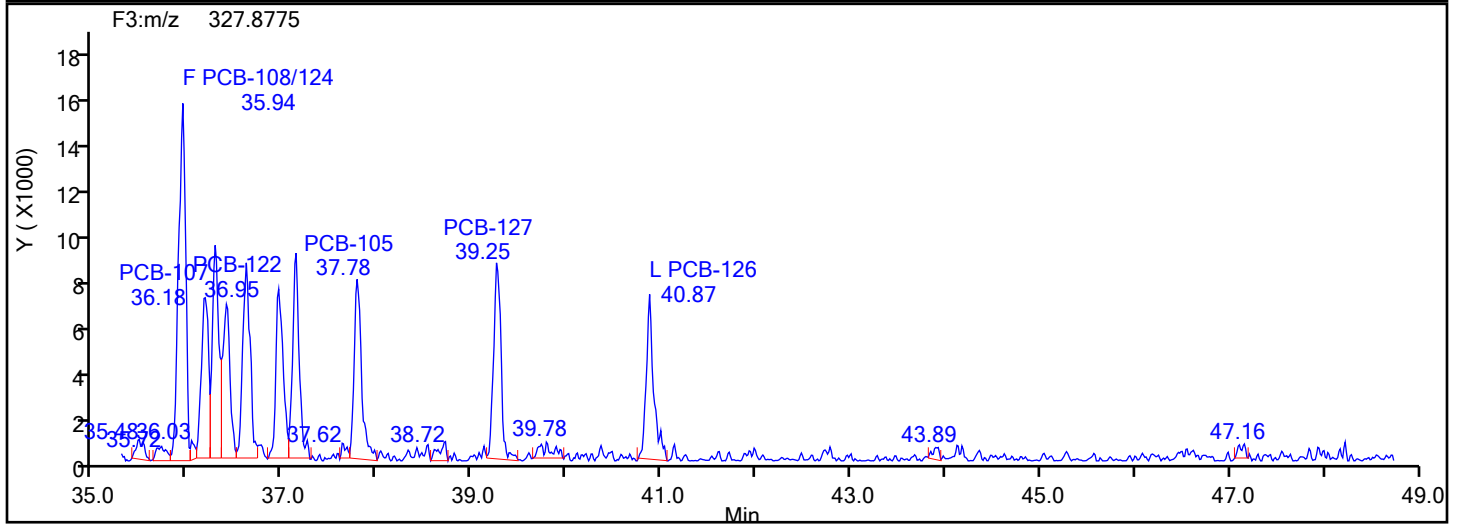
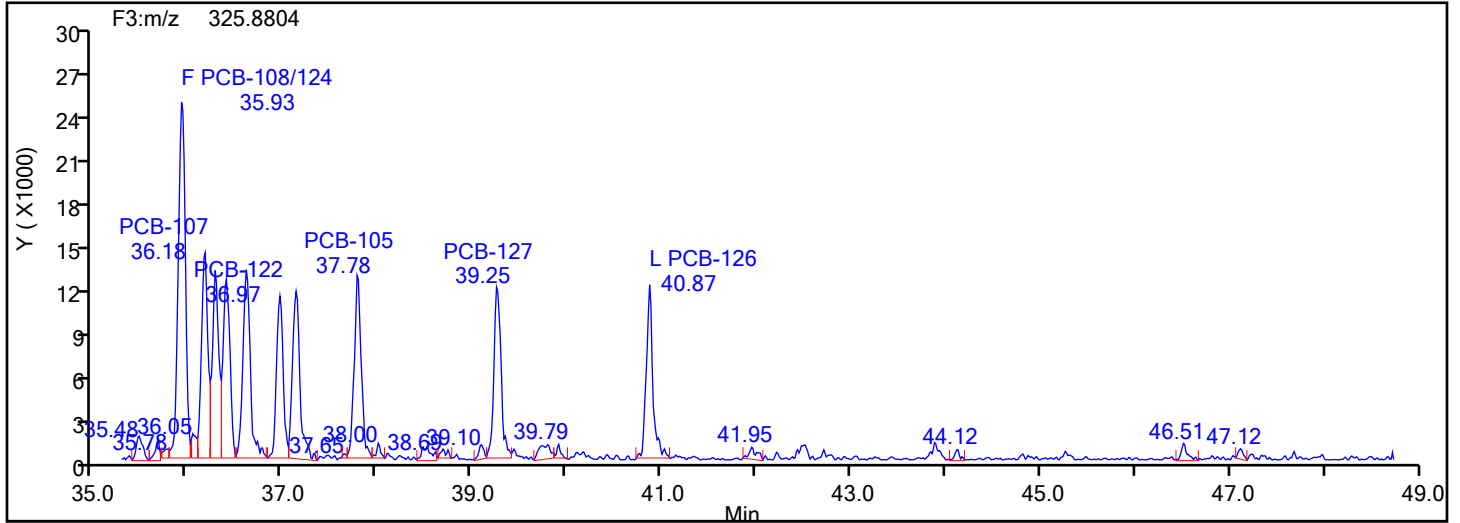
Worklist#: 87130

Sample Line#: 2

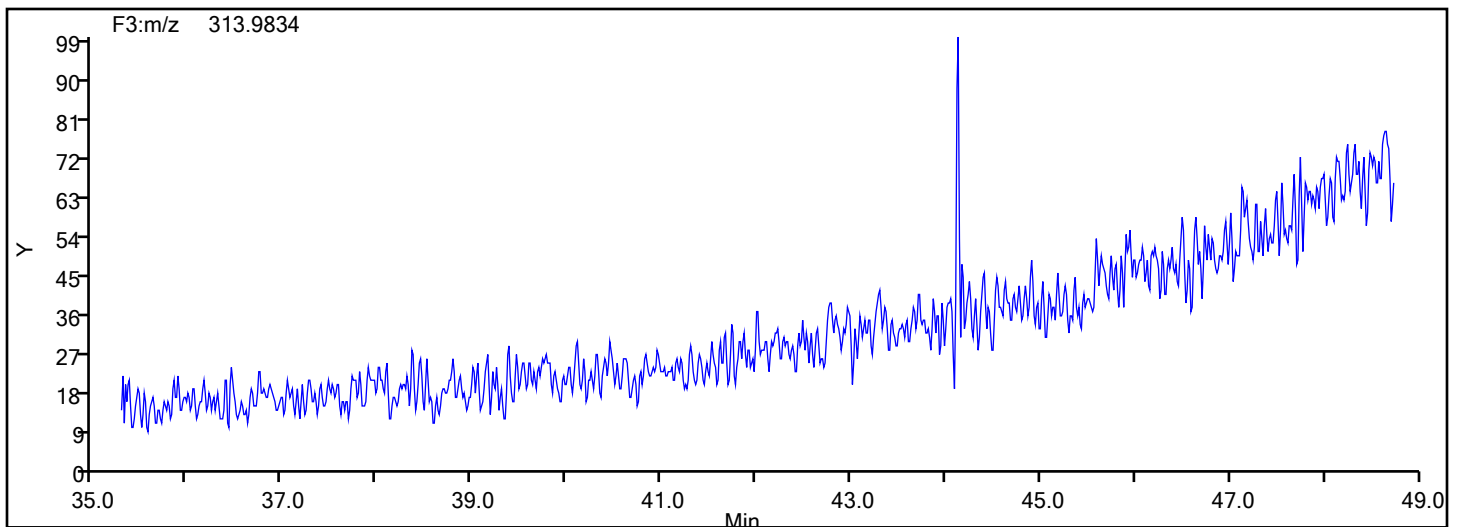
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

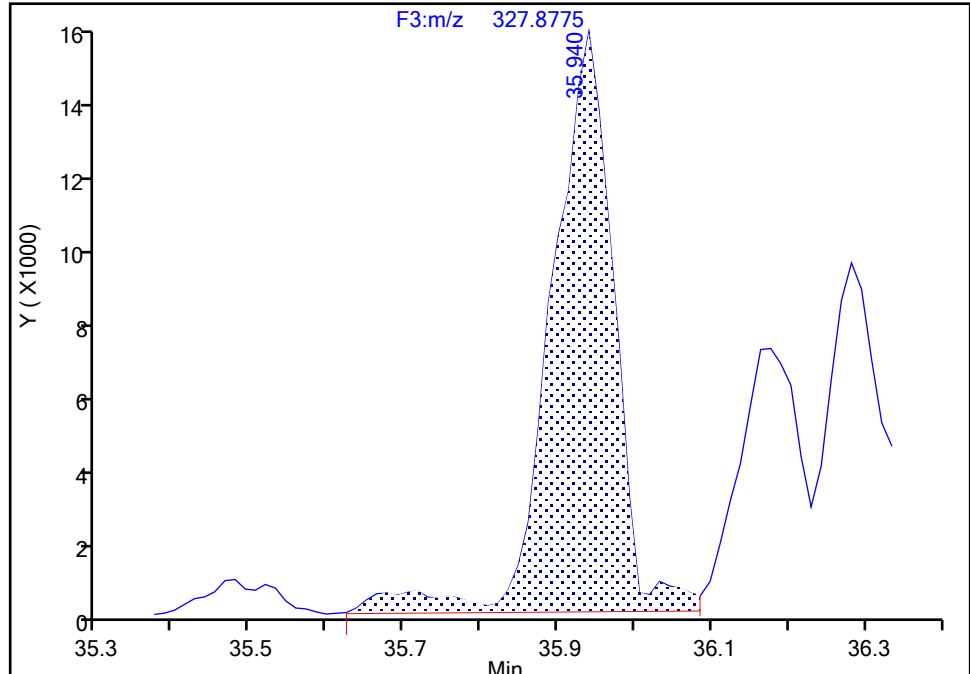
Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 2

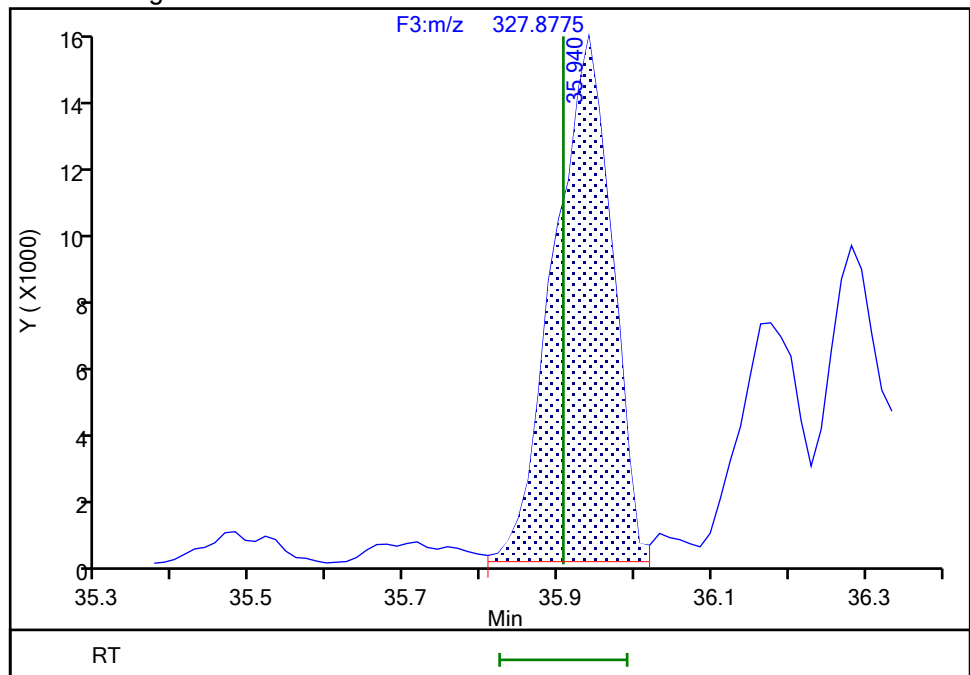
RT: 35.94
Area: 85784
Amount: 2.094460
Amount Units: pg/ul

Processing Integration Results



RT: 35.94
Area: 79414
Amount: 1.988181
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

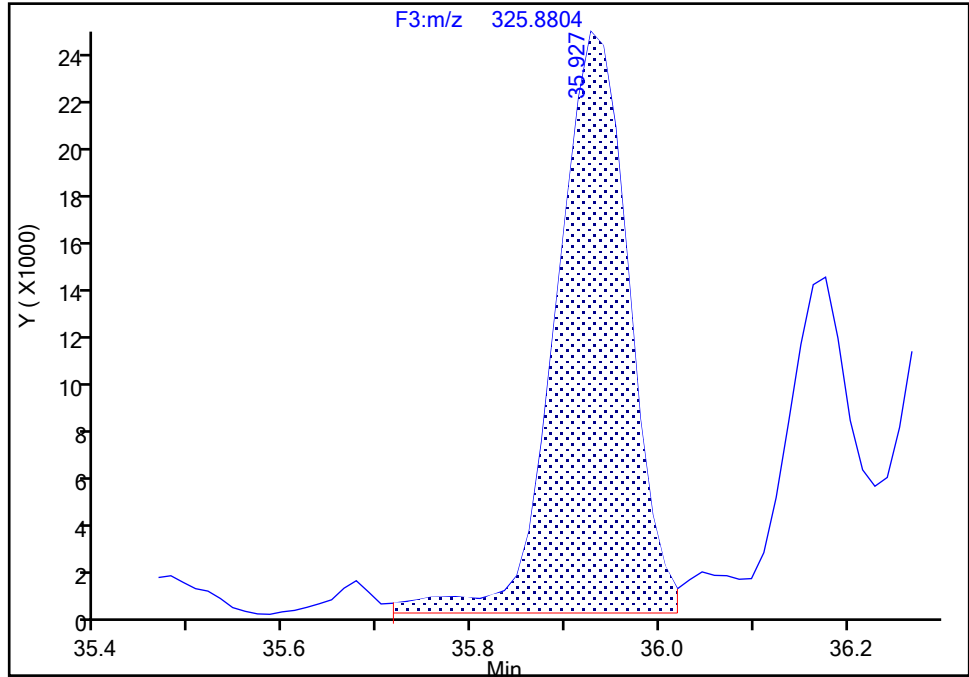
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-108/124, CAS: STL02294

Signal: 1

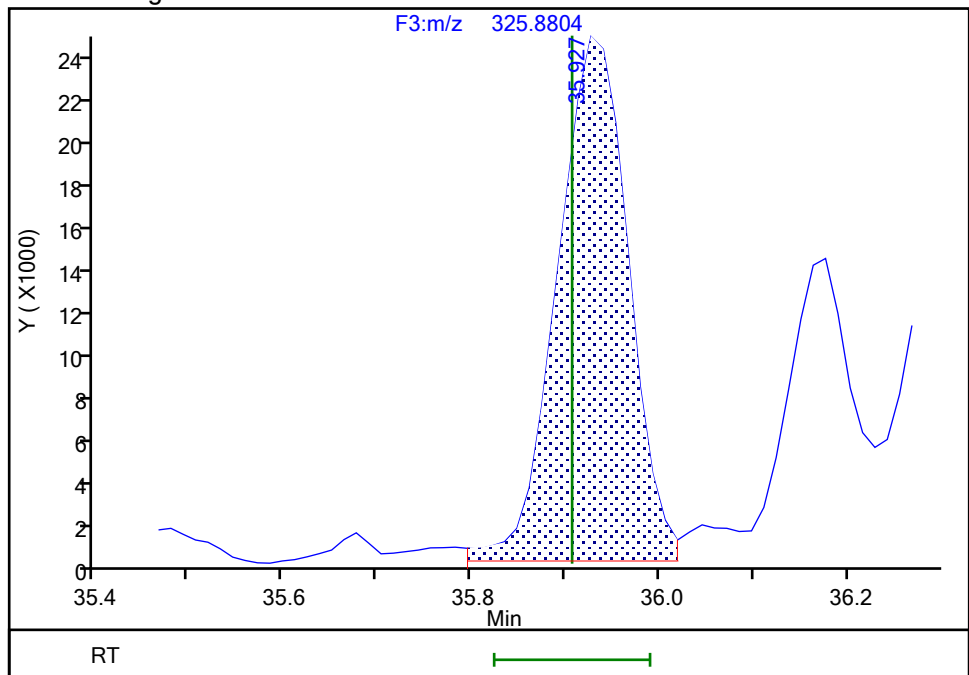
RT: 35.93
Area: 131741
Amount: 2.094460
Amount Units: pg/ul

Processing Integration Results



RT: 35.93
Area: 129156
Amount: 1.988181
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:37 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1901 of 3050

BASFWHC-McIntosh-009902

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

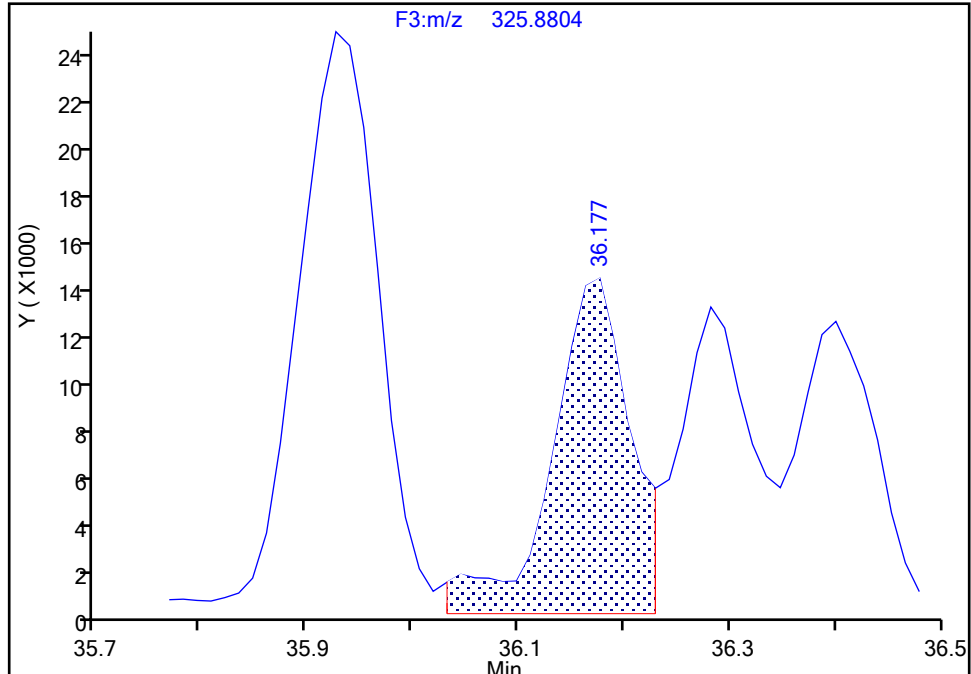
Detector F3(35.64 :49.10)

PCB-107, CAS: 70424-68-9

Signal: 1

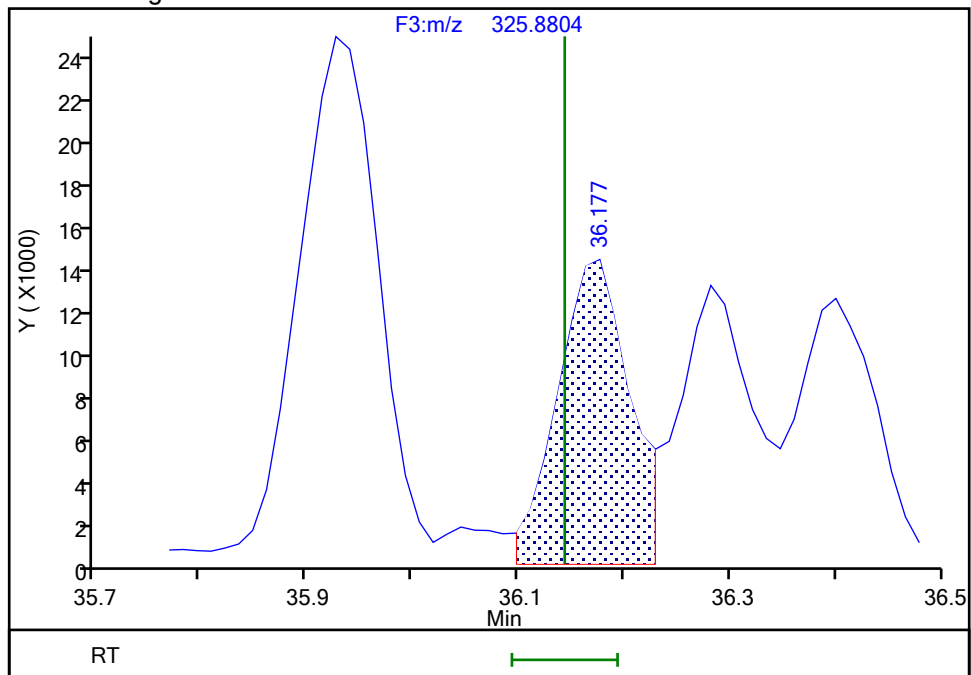
RT: 36.18
Area: 71873
Amount: 0.939406
Amount Units: pg/ul

Processing Integration Results



RT: 36.18
Area: 65956
Amount: 0.919787
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

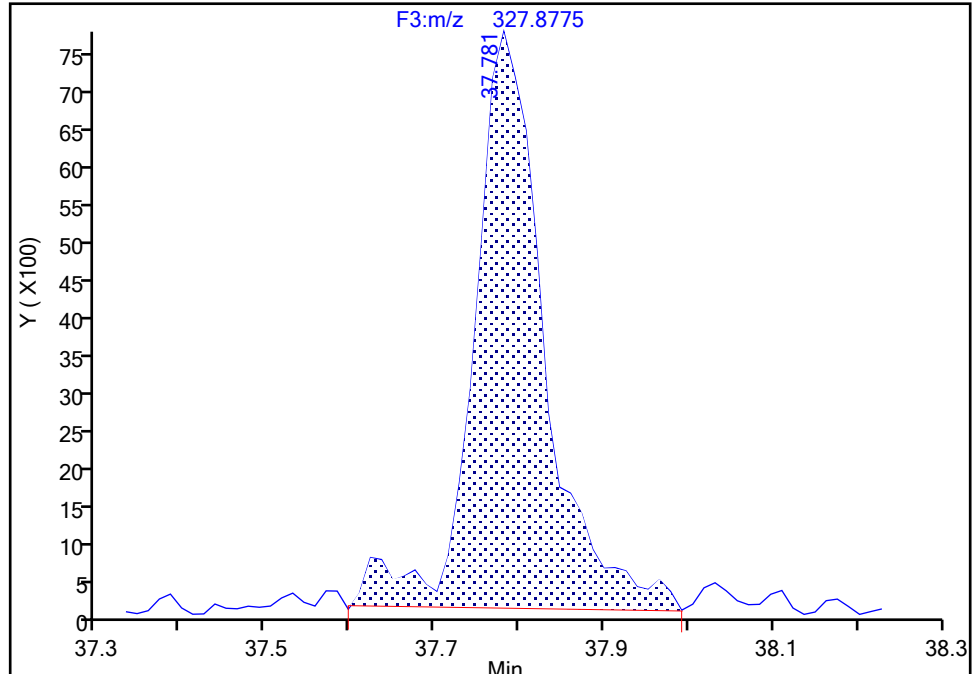
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

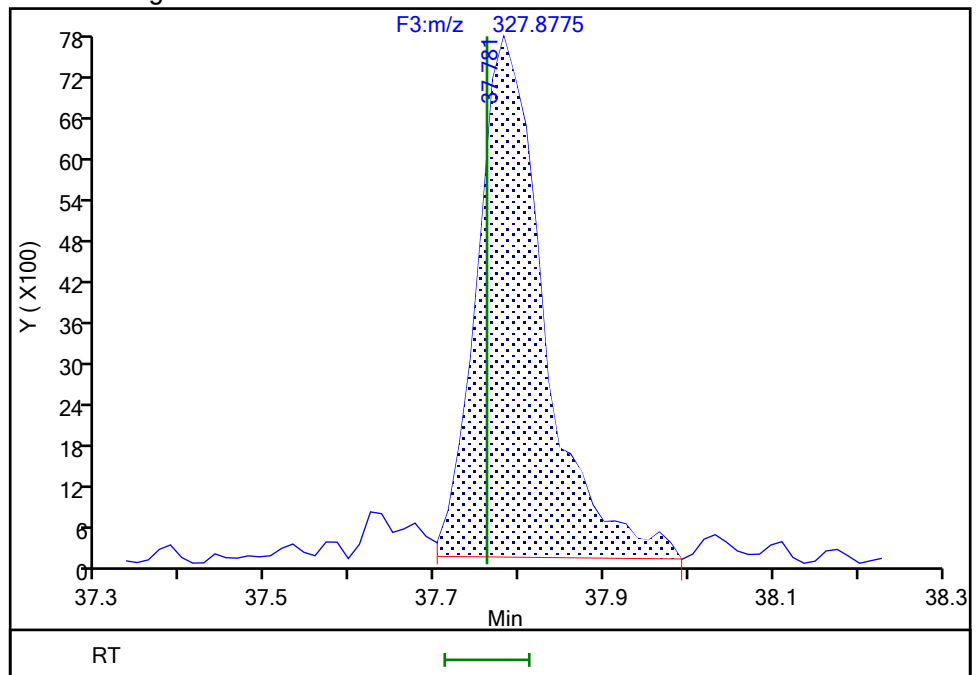
RT: 37.78
Area: 44477
Amount: 1.021569
Amount Units: pg/ul

Processing Integration Results



RT: 37.78
Area: 42090
Amount: 0.993744
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:37:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

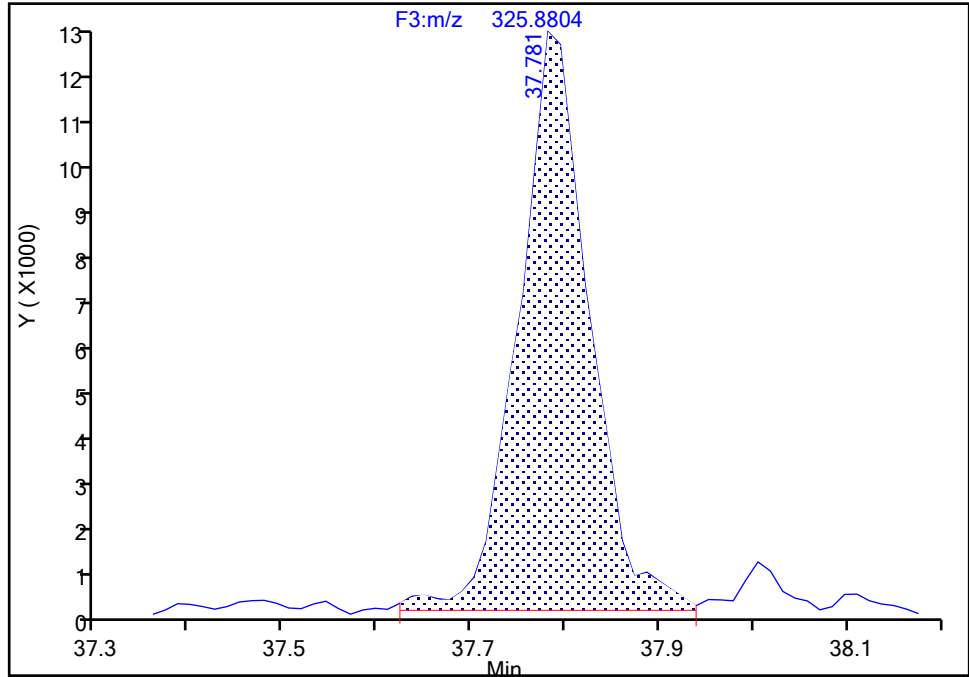
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 1

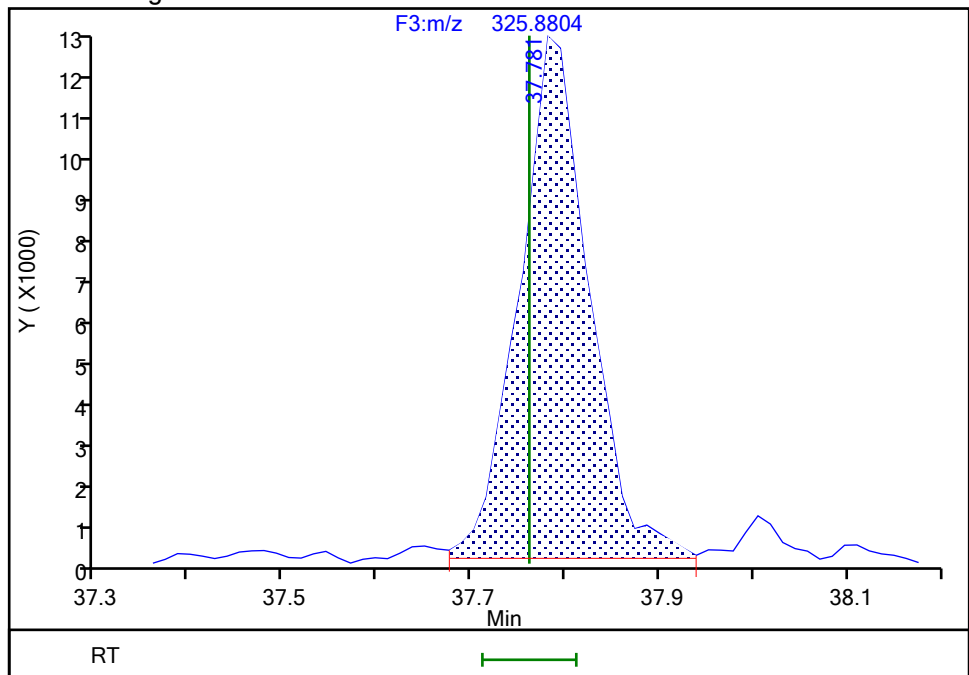
RT: 37.78
Area: 66144
Amount: 1.021569
Amount Units: pg/ul

Processing Integration Results



RT: 37.78
Area: 65351
Amount: 0.993744
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:37:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1904 of 3050

BASFWHC-McIntosh-009905

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

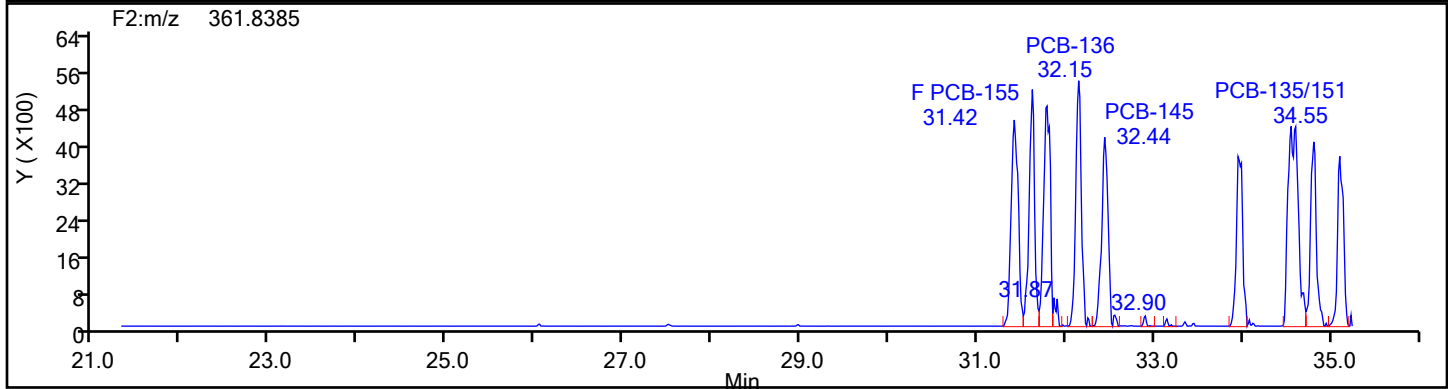
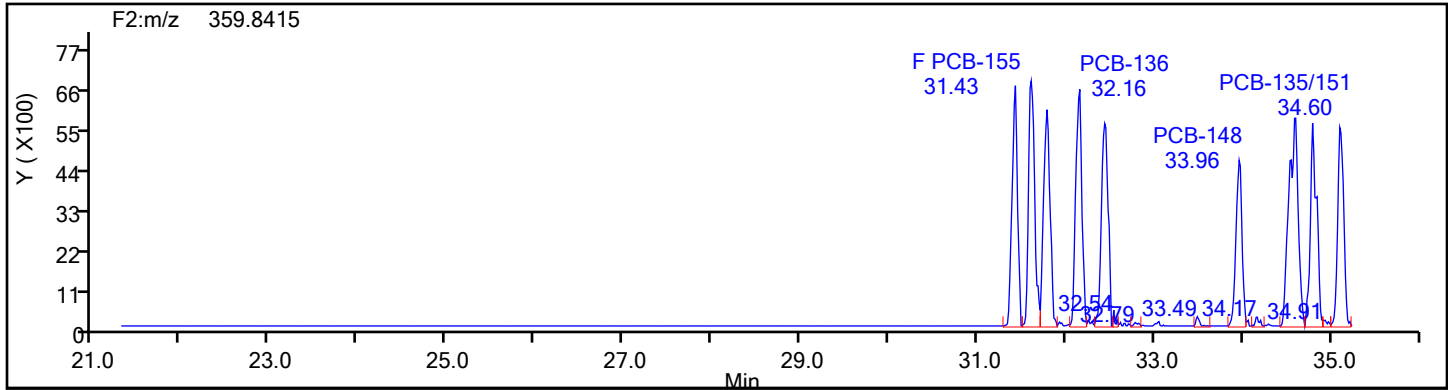
Worklist#: 87130

Sample Line#: 2

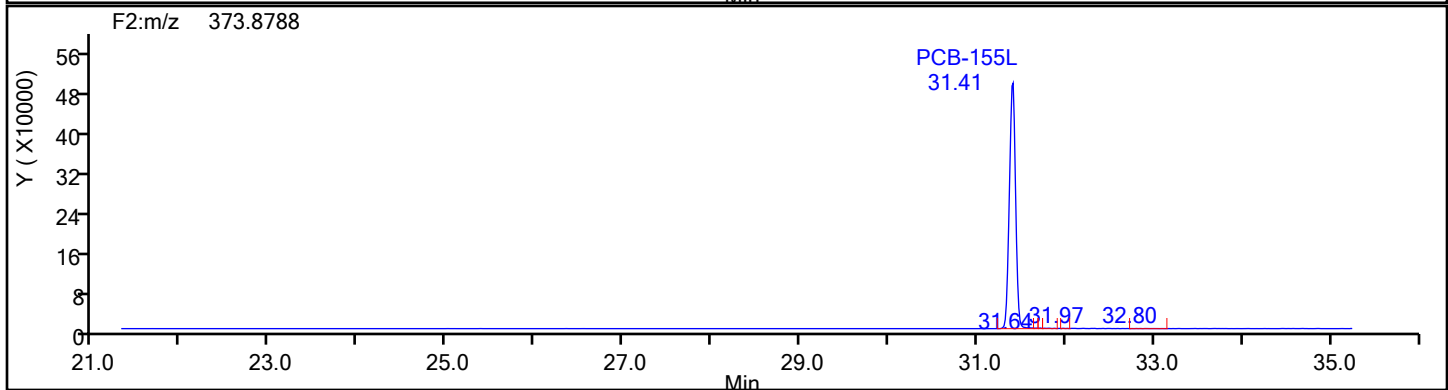
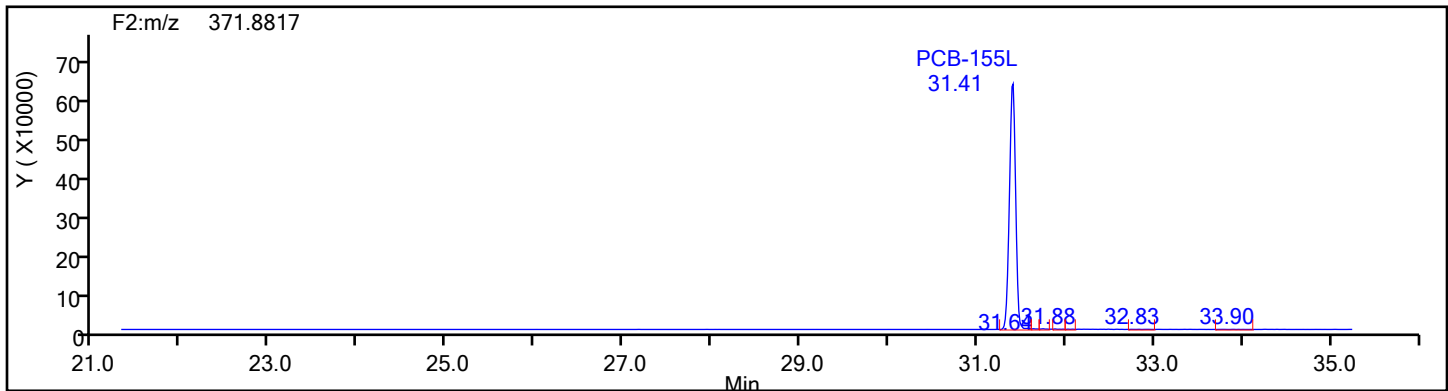
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

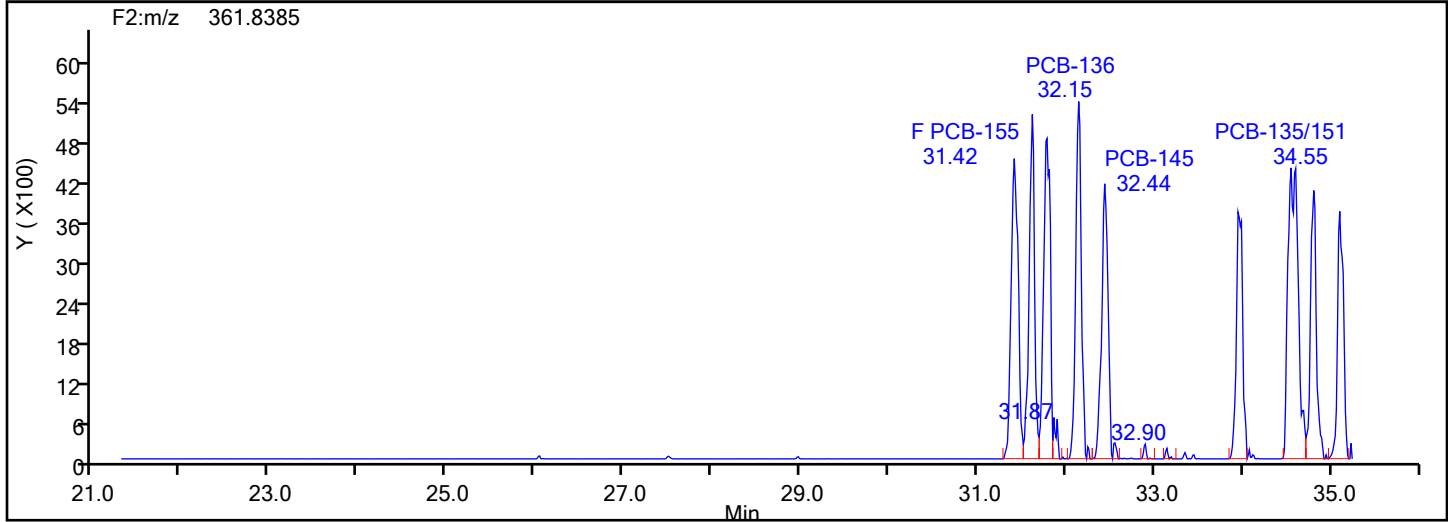
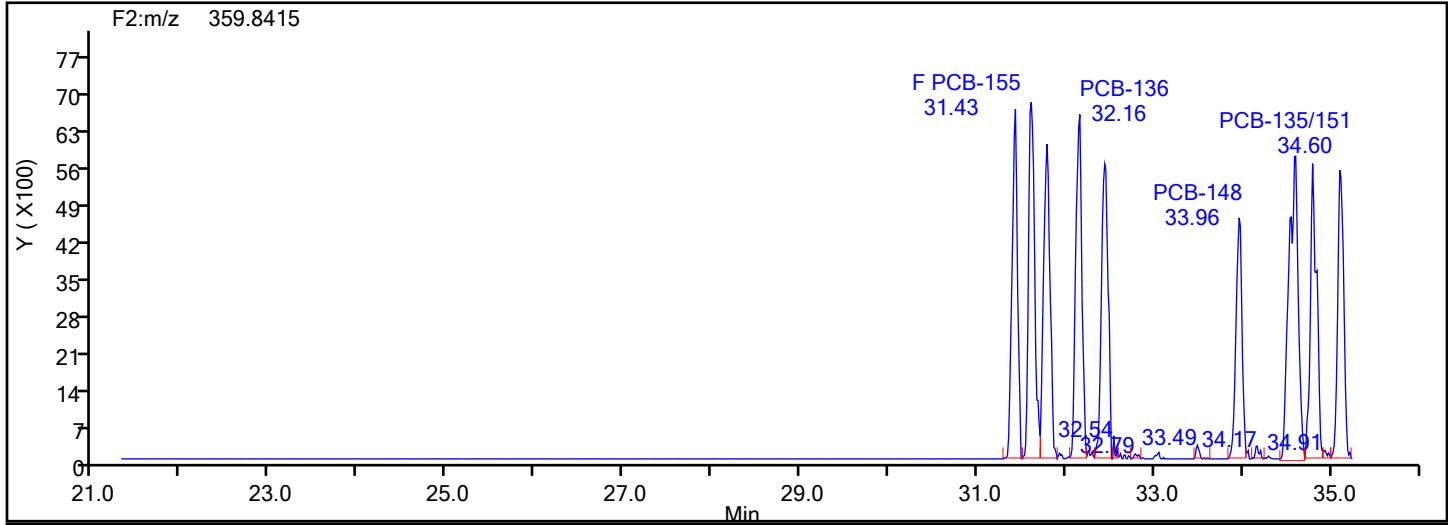
Worklist#: 87130

Sample Line#: 2

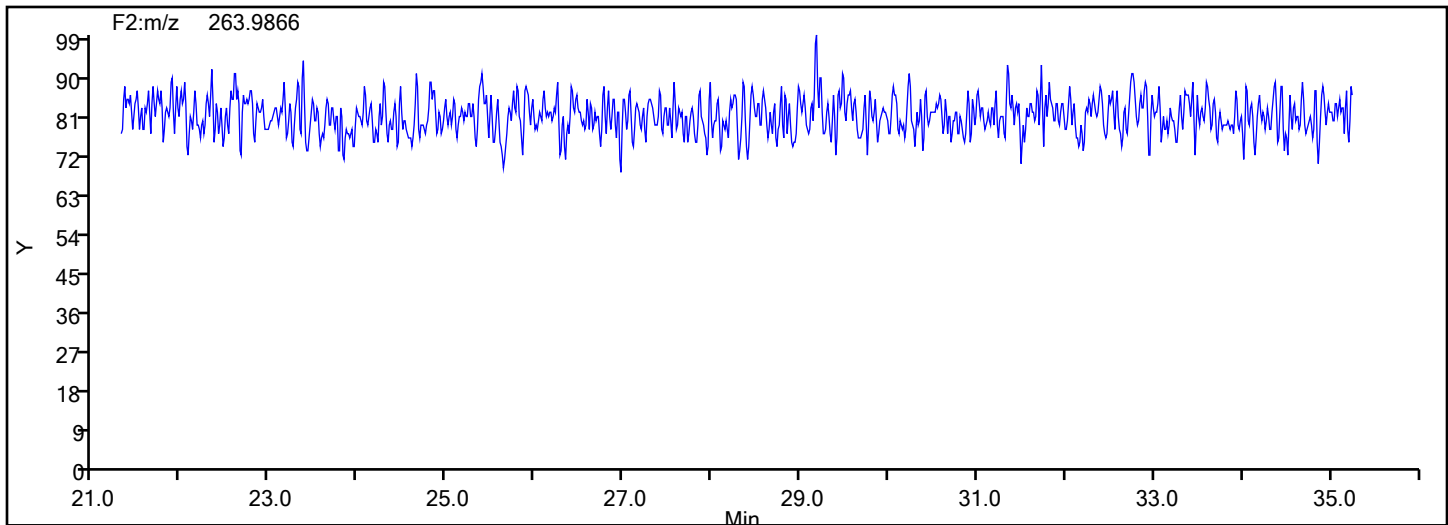
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

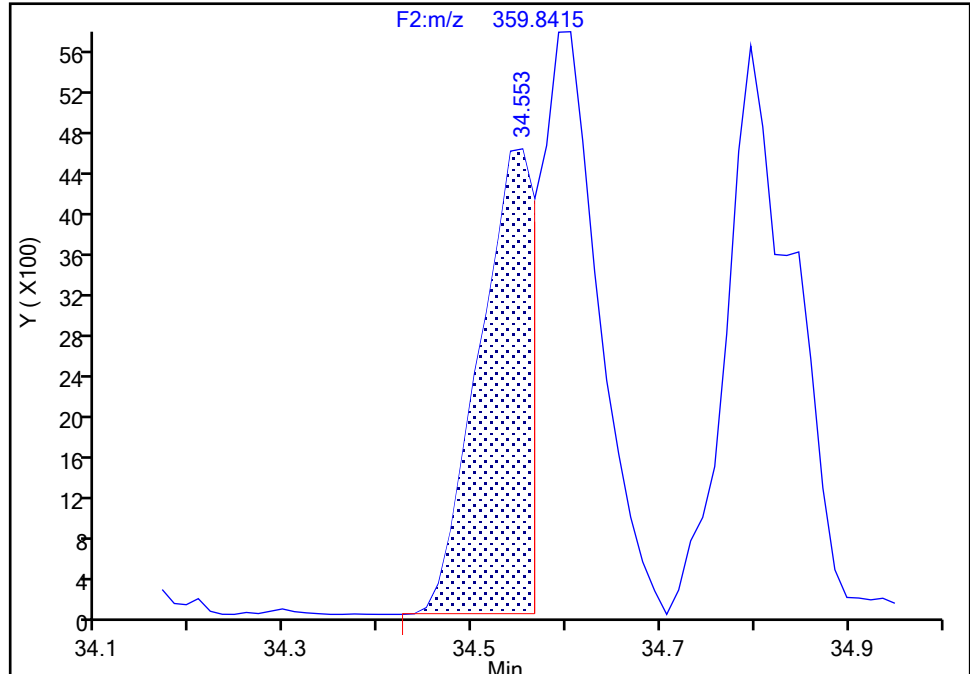
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

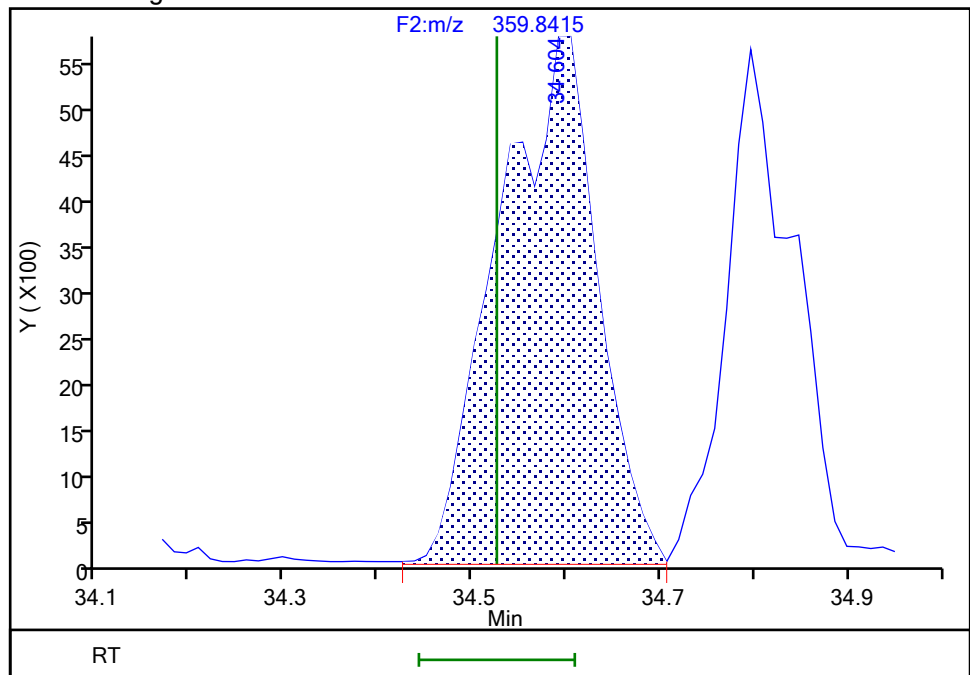
RT: 34.55
Area: 17791
Amount: 0.966805
Amount Units: pg/ul

Processing Integration Results



RT: 34.60
Area: 42637
Amount: 1.937644
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

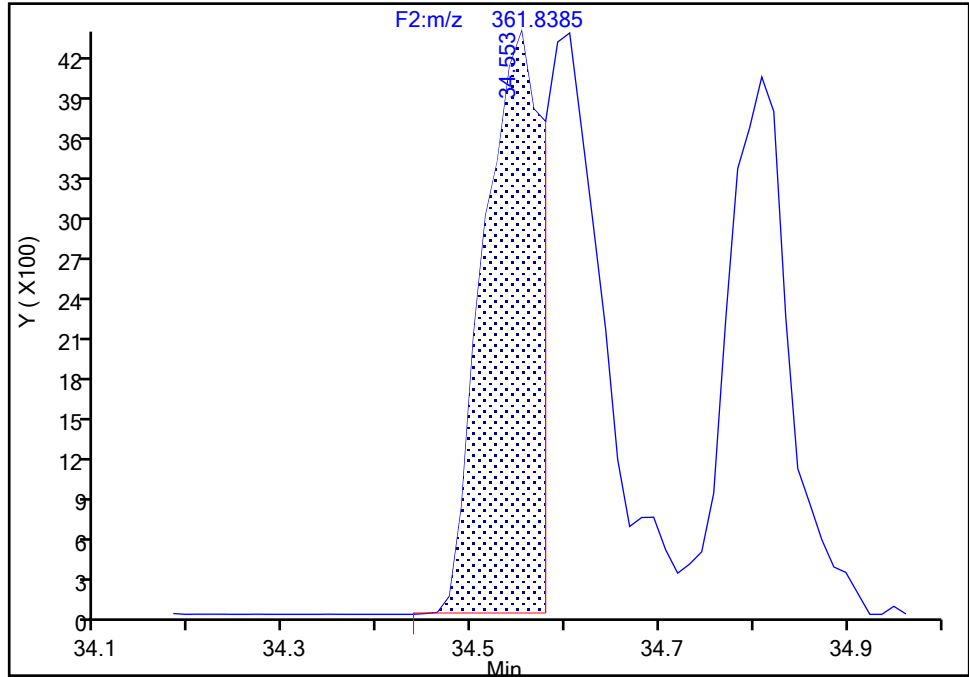
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

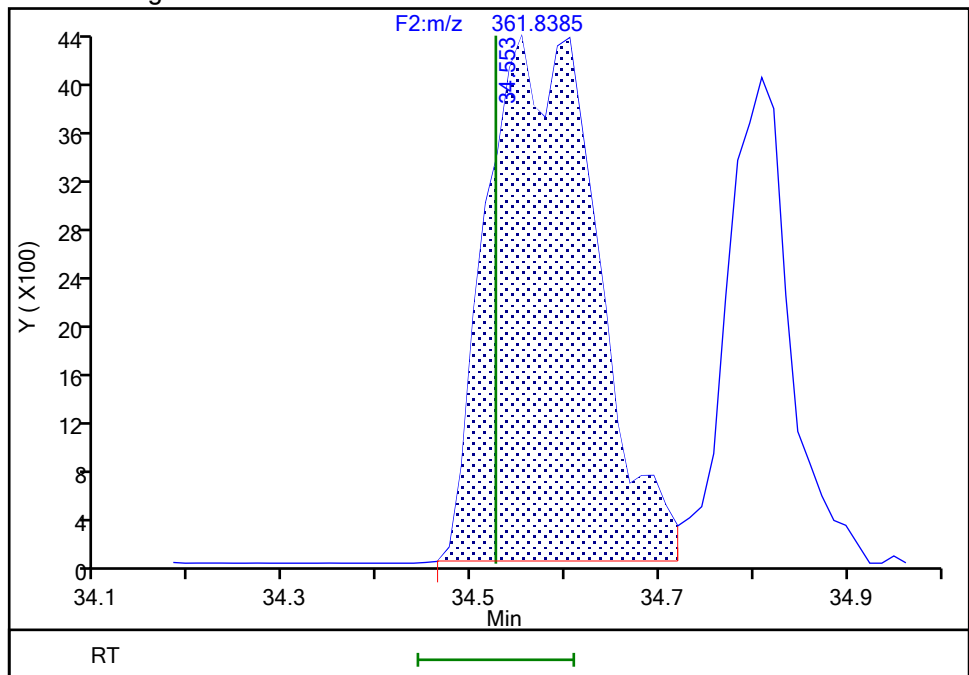
RT: 34.55
Area: 18073
Amount: 0.966805
Amount Units: pg/ul

Processing Integration Results



RT: 34.55
Area: 35628
Amount: 1.937644
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1908 of 3050

BASFWC-McIntosh-009909

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

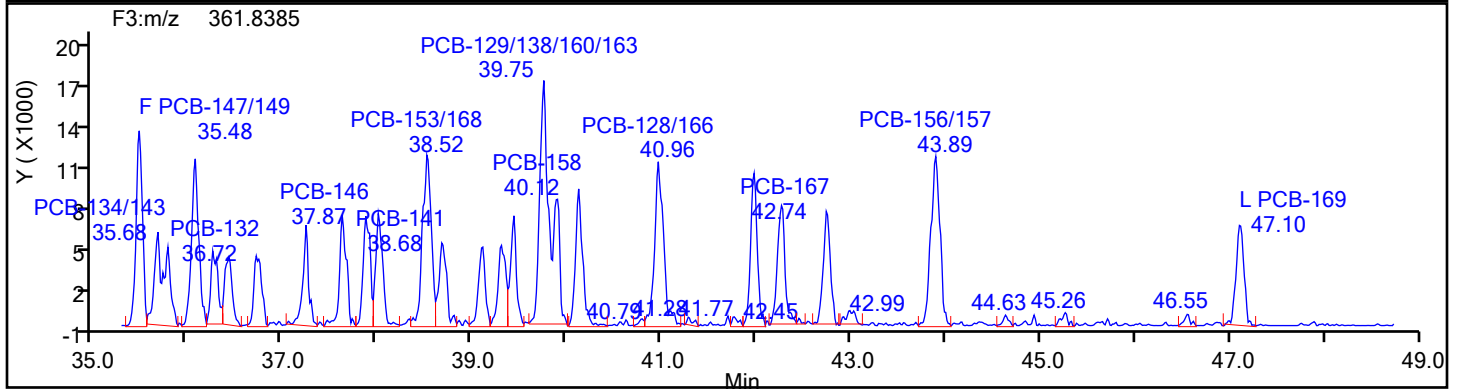
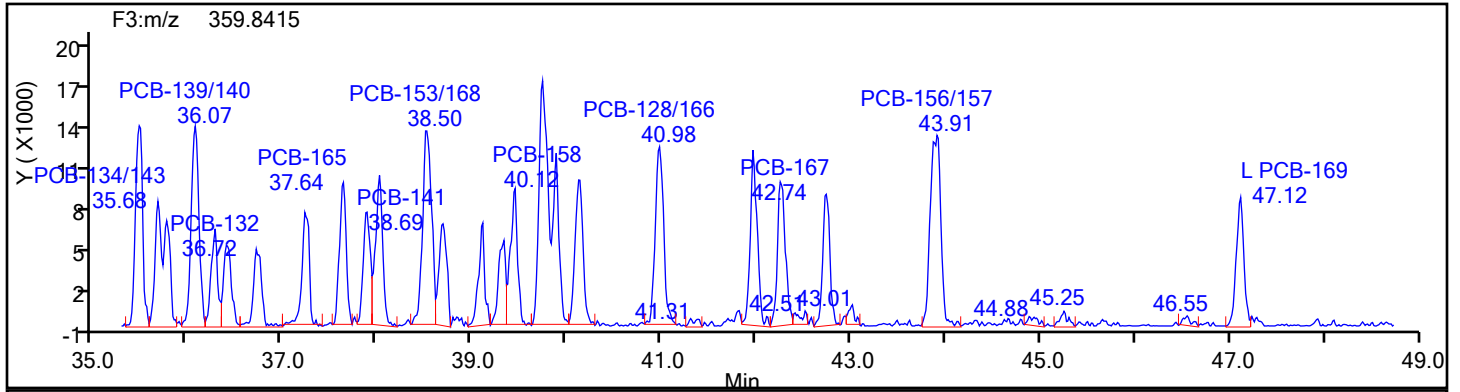
Worklist#: 87130

Sample Line#: 2

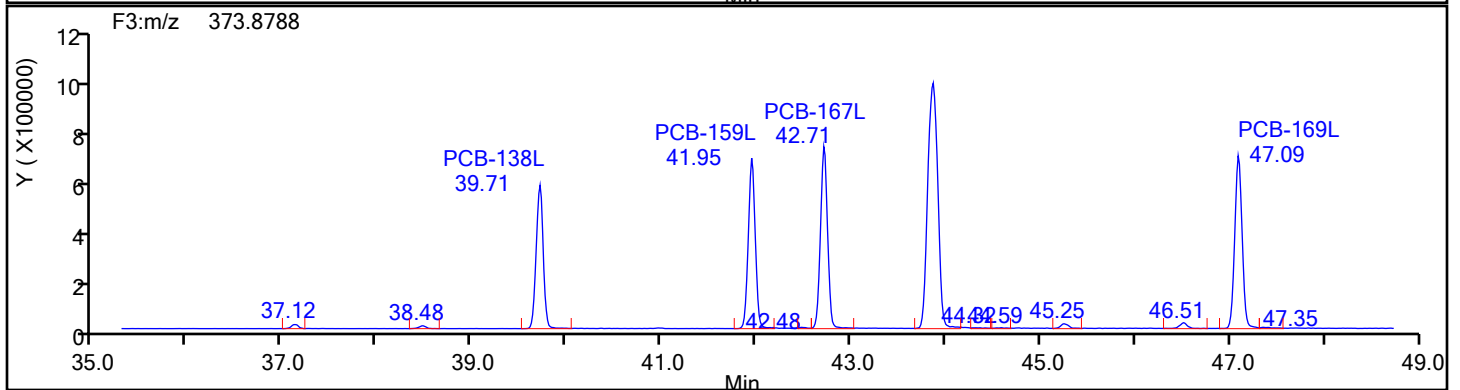
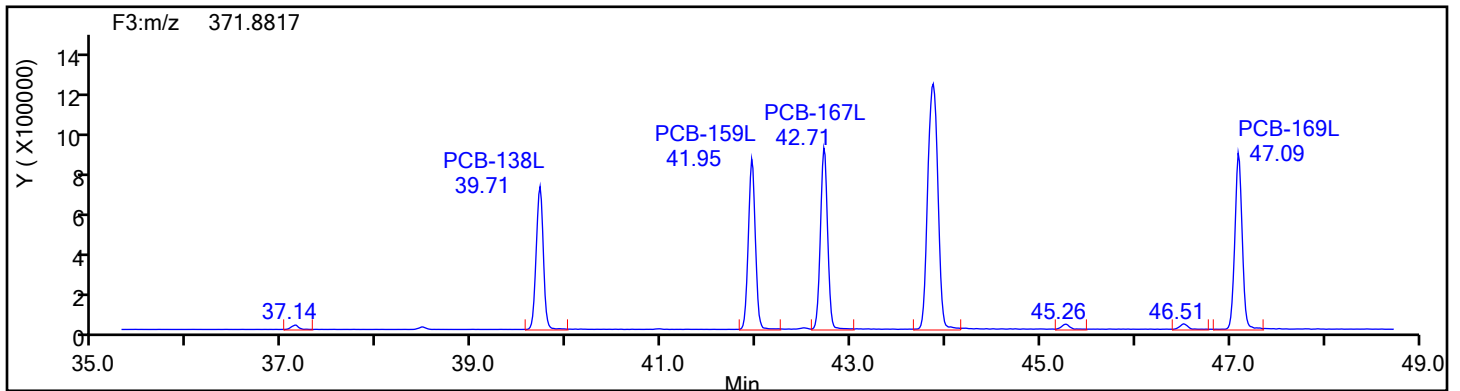
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

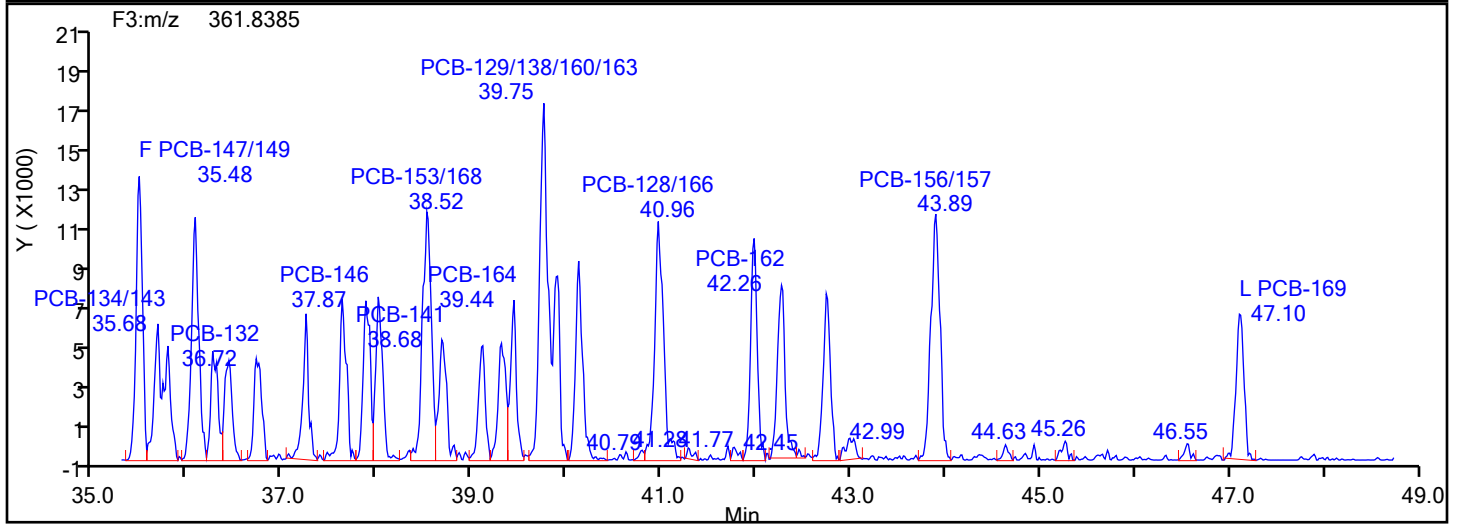
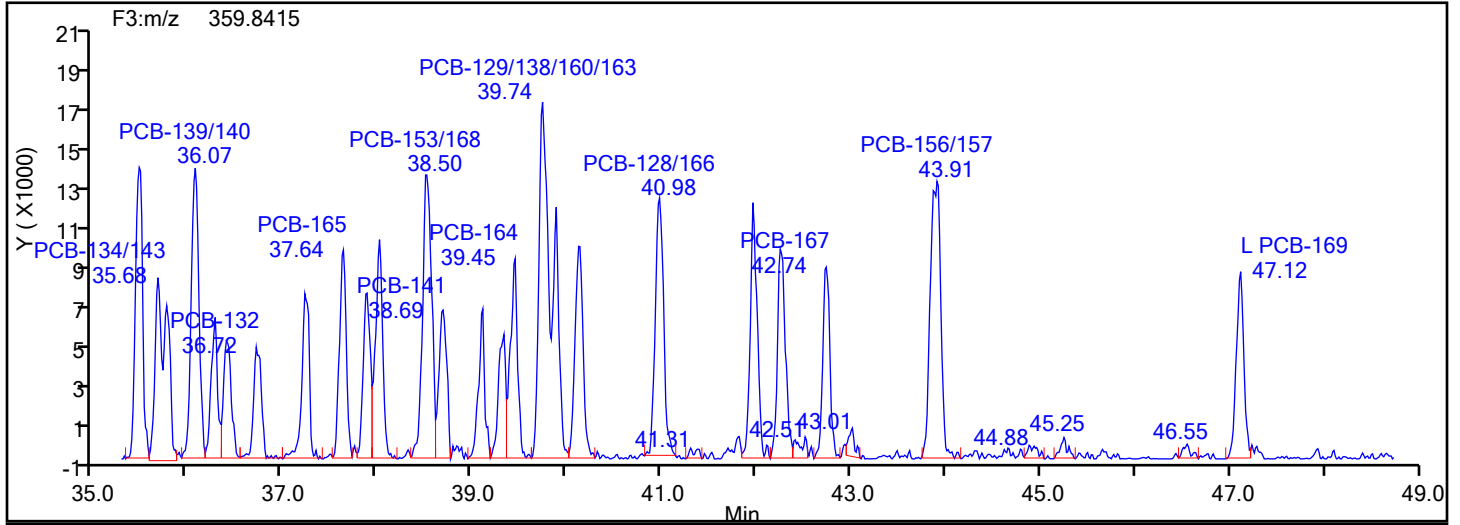
Worklist#: 87130

Sample Line#: 2

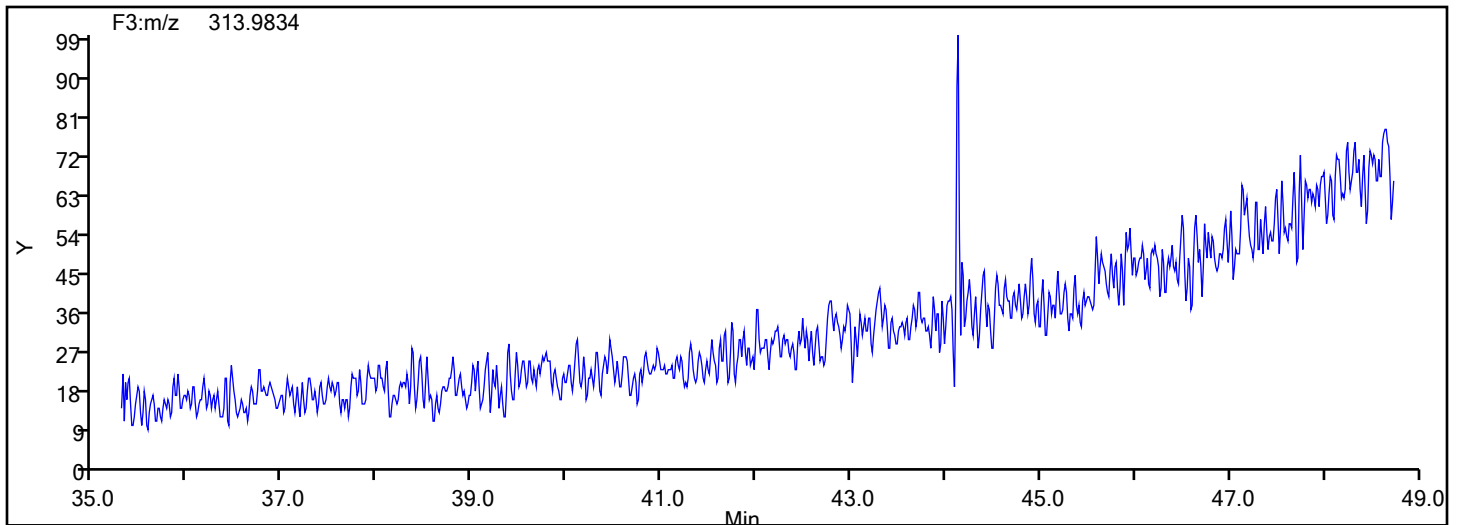
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

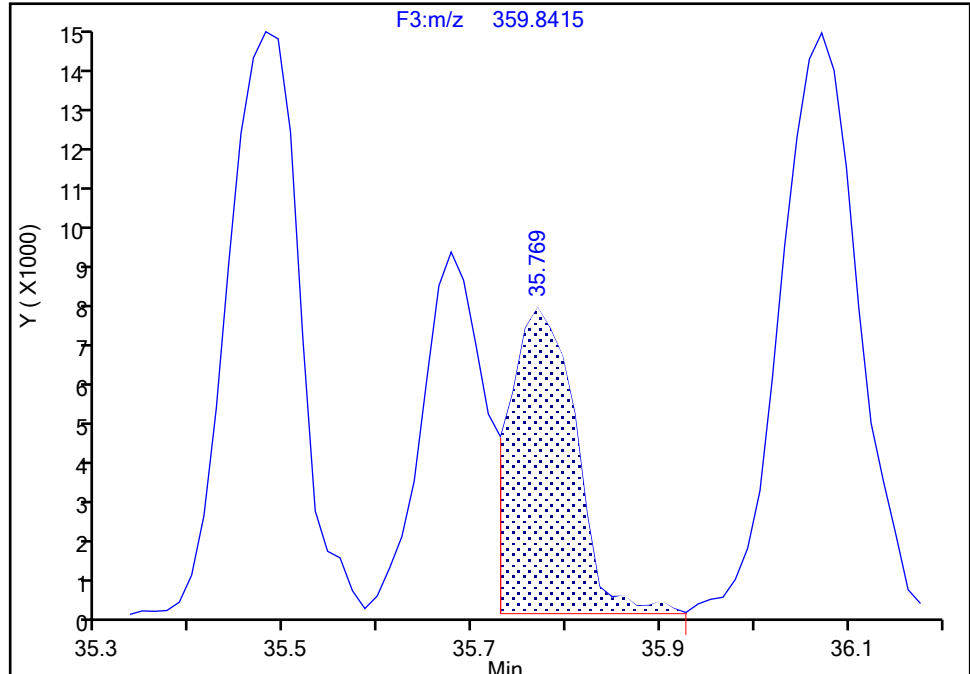
Detector F3(35.64 :49.10)

PCB-134/143, CAS: STL01818

Signal: 1

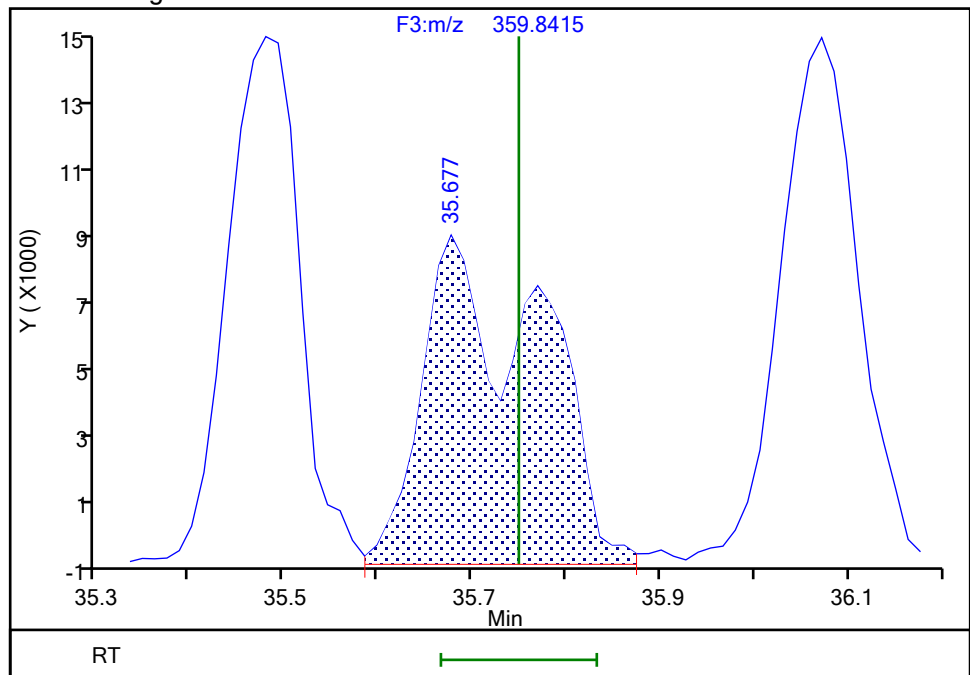
RT: 35.77
Area: 35338
Amount: 1.102163
Amount Units: pg/ul

Processing Integration Results



RT: 35.68
Area: 75510
Amount: 2.011887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

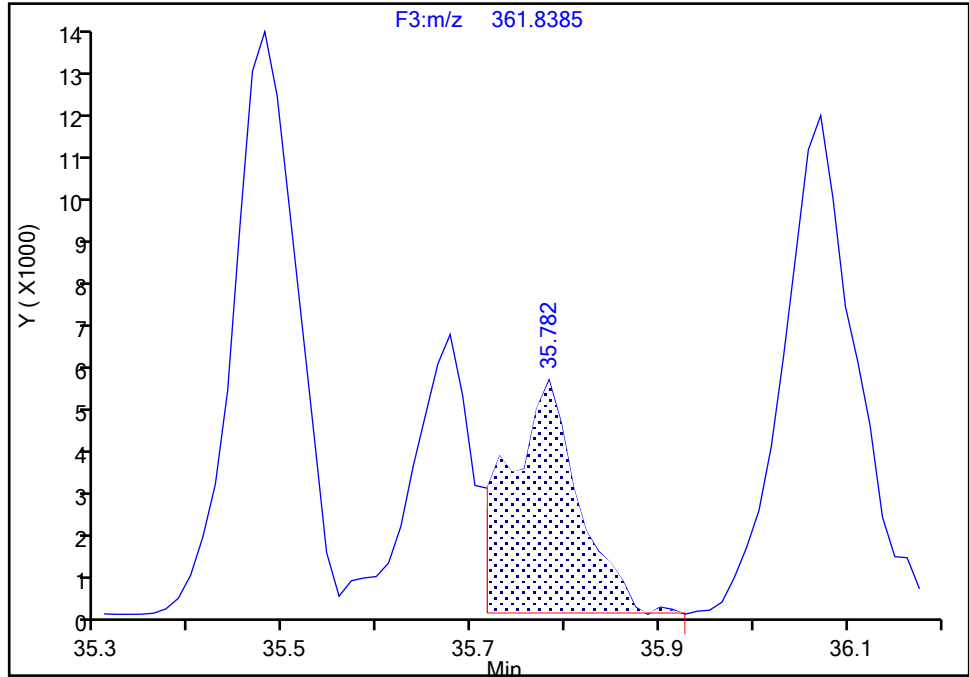
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-134/143, CAS: STL01818

Signal: 2

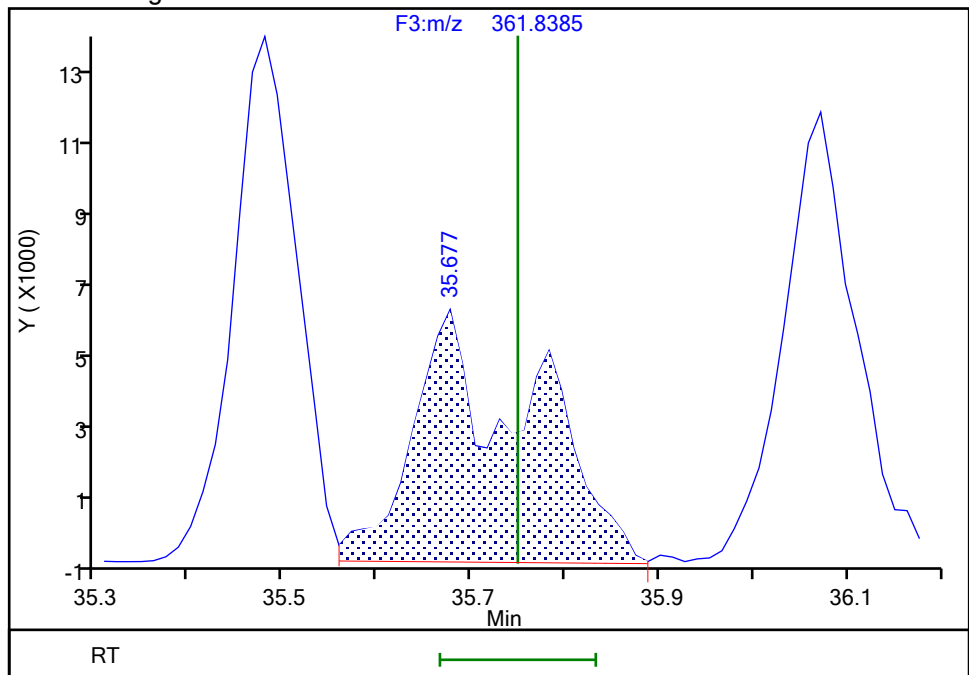
RT: 35.78
Area: 27425
Amount: 1.102163
Amount Units: pg/ul

Processing Integration Results



RT: 35.68
Area: 55371
Amount: 2.011887
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1912 of 3050

BASFWC-McIntosh-009913

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

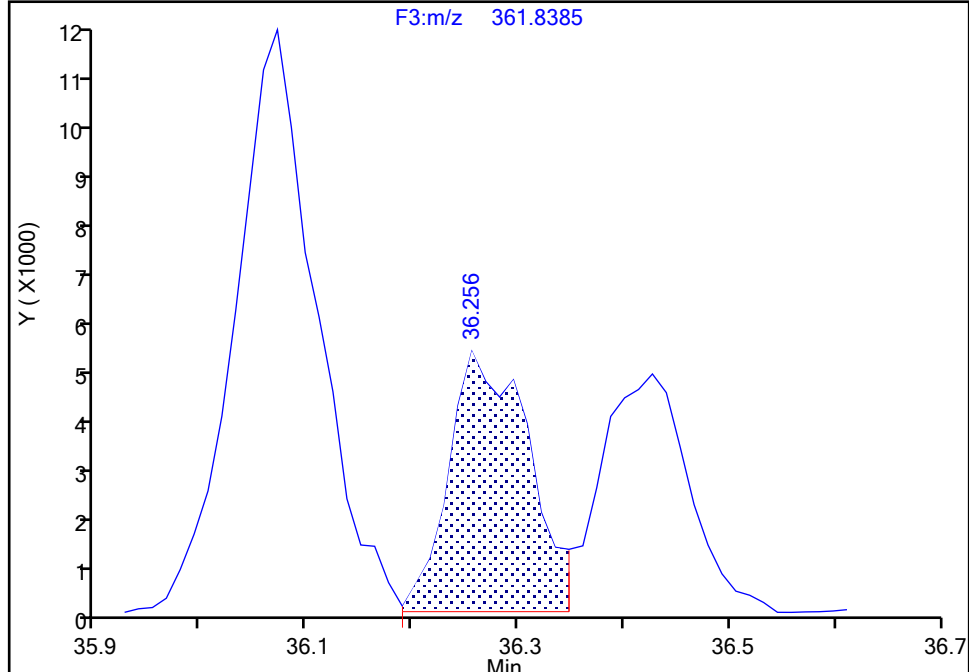
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 2

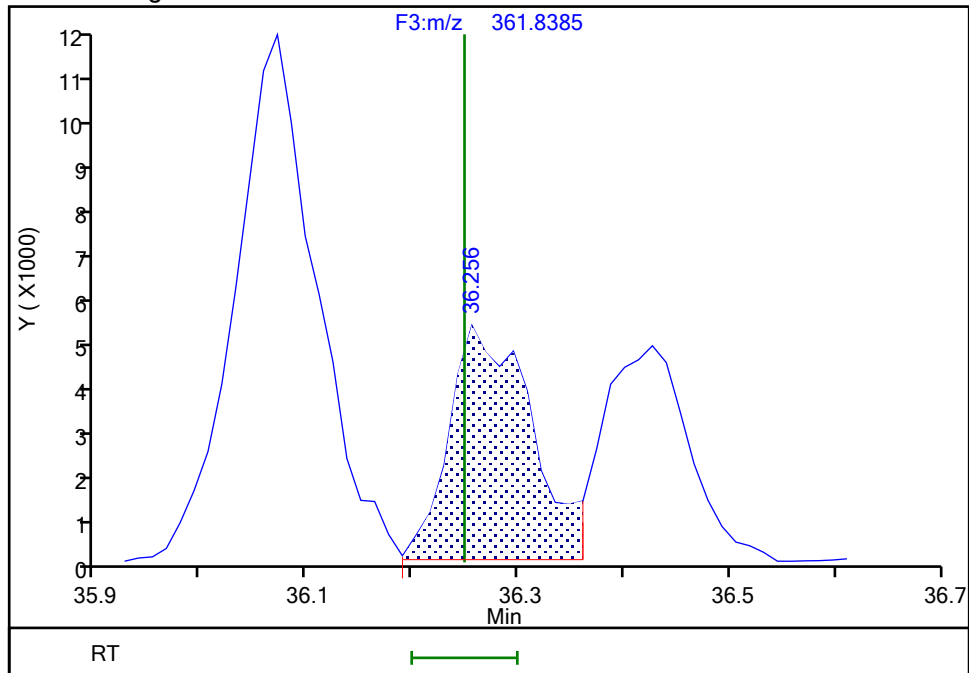
RT: 36.26
Area: 26689
Amount: 0.932978
Amount Units: pg/ul

Processing Integration Results



RT: 36.26
Area: 27457
Amount: 0.984032
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

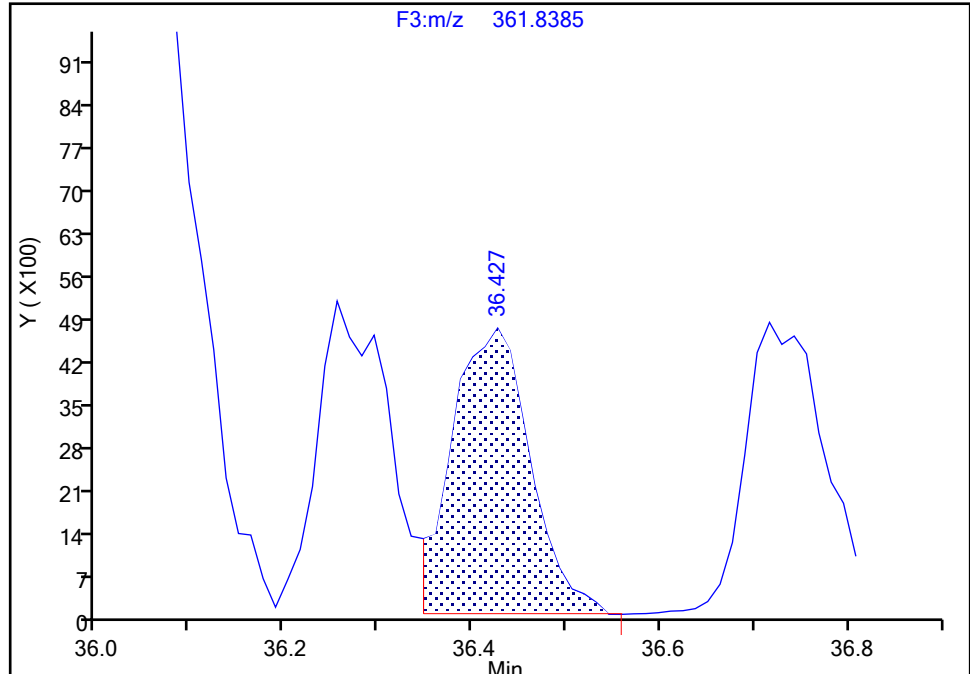
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 2

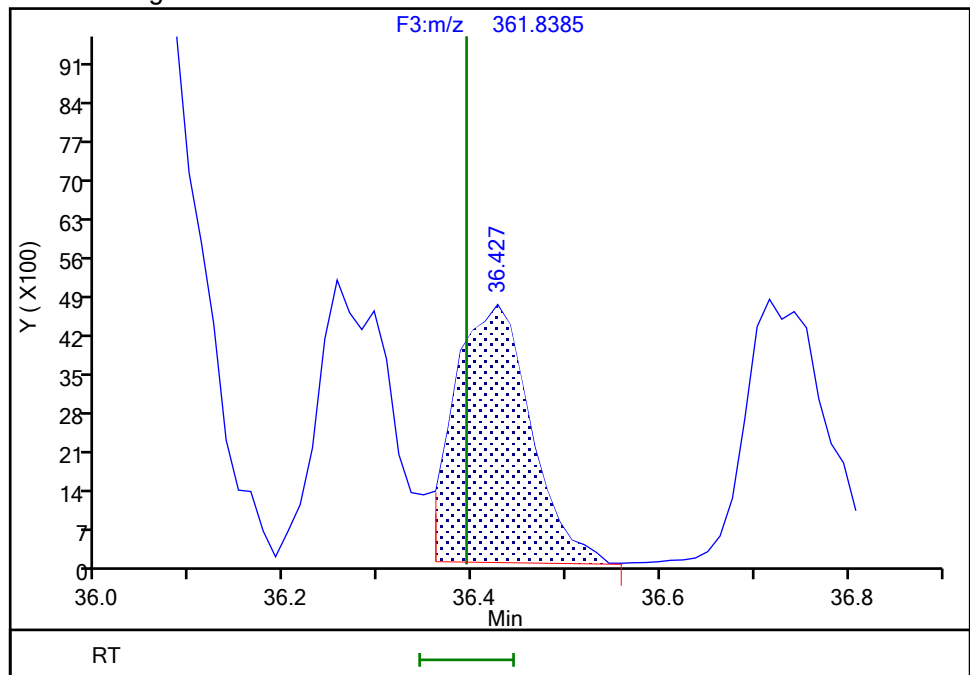
RT: 36.43
Area: 27005
Amount: 0.967785
Amount Units: pg/ul

Processing Integration Results



RT: 36.43
Area: 25865
Amount: 0.956909
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

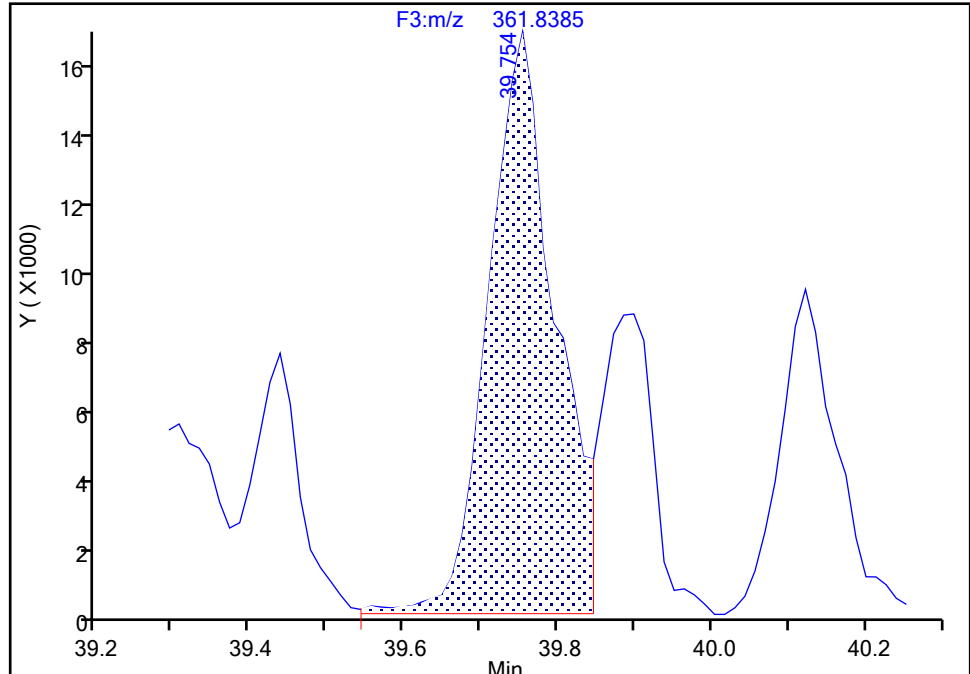
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

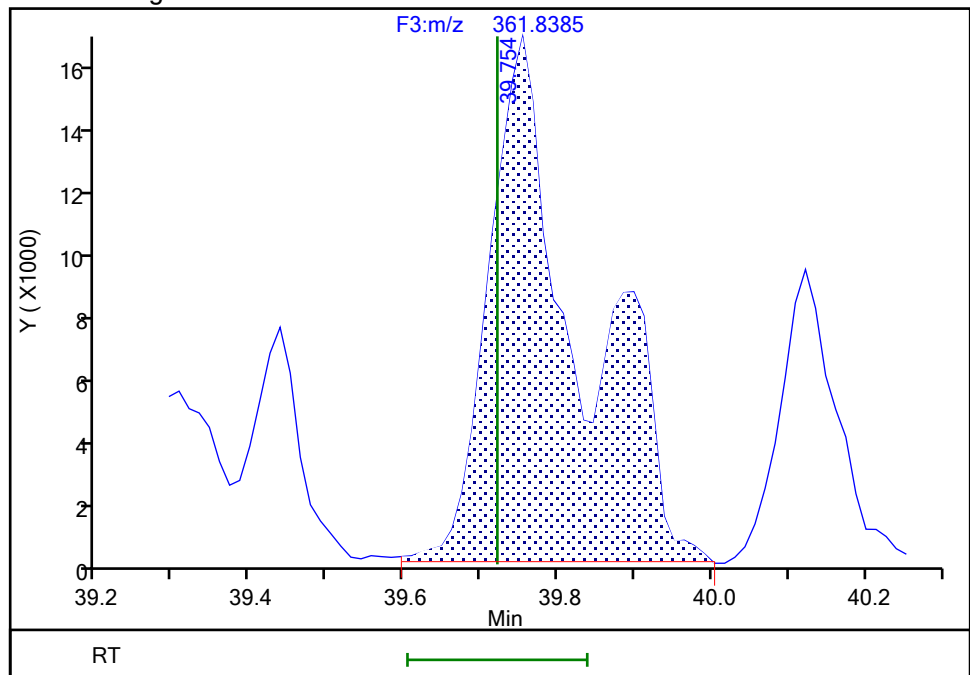
RT: 39.75
Area: 101326
Amount: 3.651293
Amount Units: pg/ul

Processing Integration Results



RT: 39.75
Area: 139822
Amount: 3.921772
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

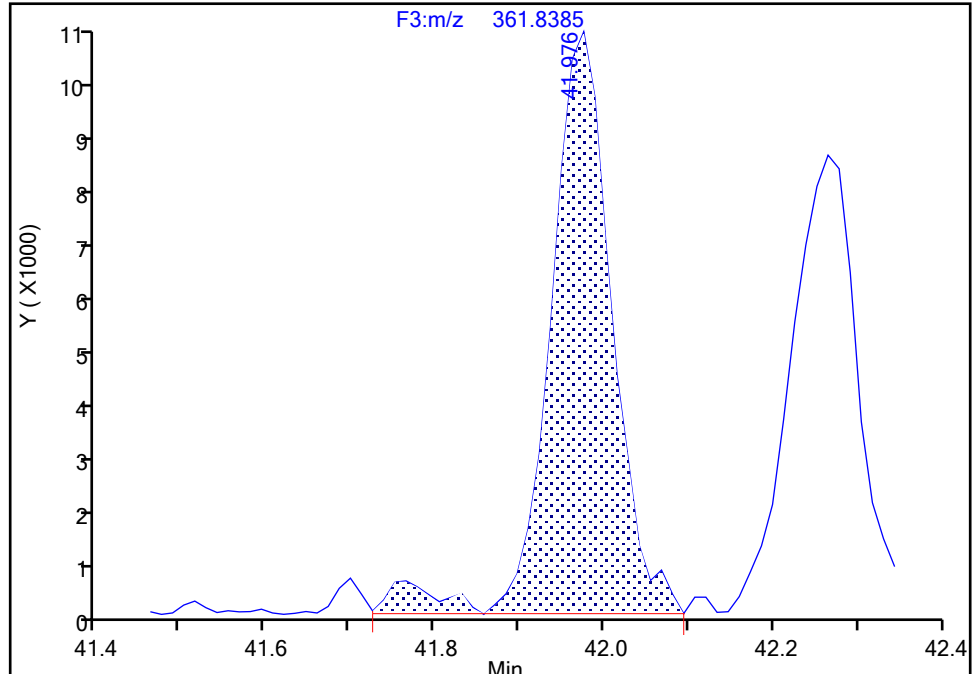
F3(35.64 :49.10)

PCB-159, CAS: 39635-35-3

Signal: 2

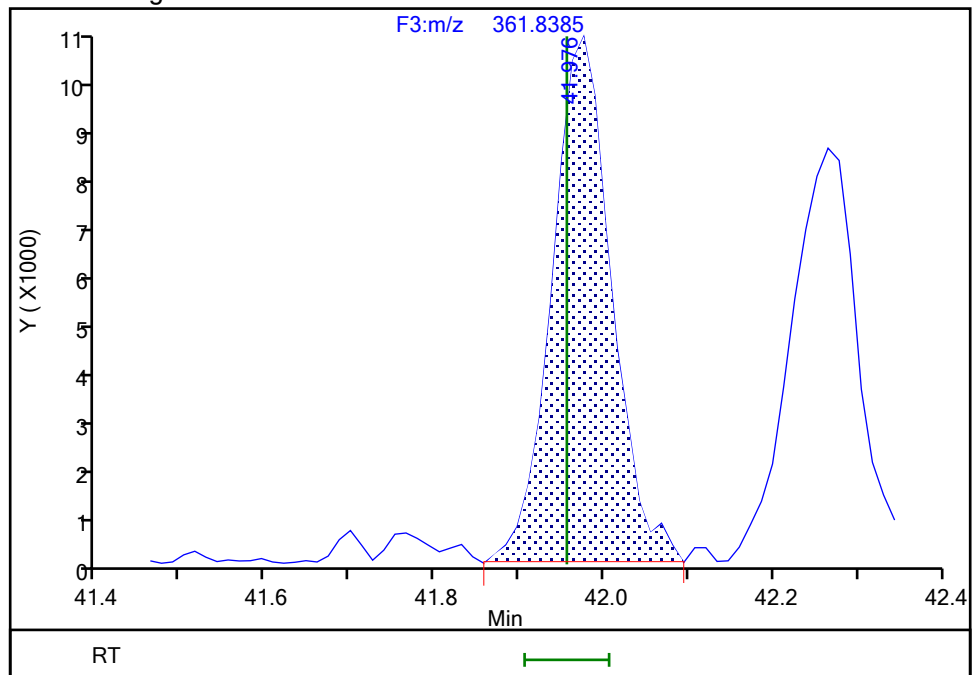
RT: 41.98
Area: 53701
Amount: 1.044933
Amount Units: pg/ul

Processing Integration Results



RT: 41.98
Area: 51172
Amount: 1.015050
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

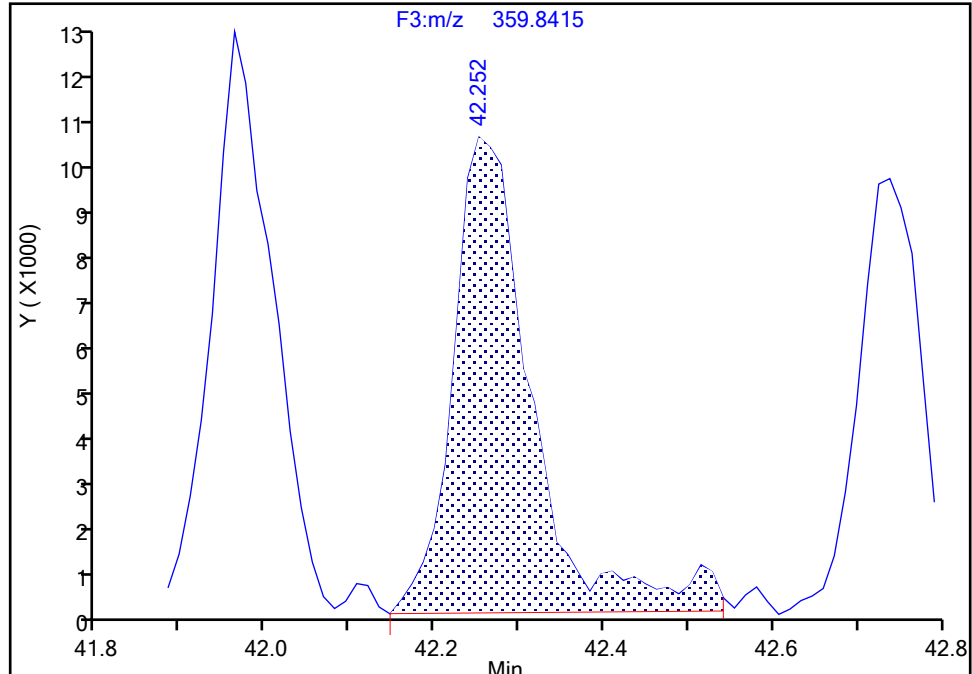
Detector F3(35.64 :49.10)

PCB-162, CAS: 39635-34-2

Signal: 1

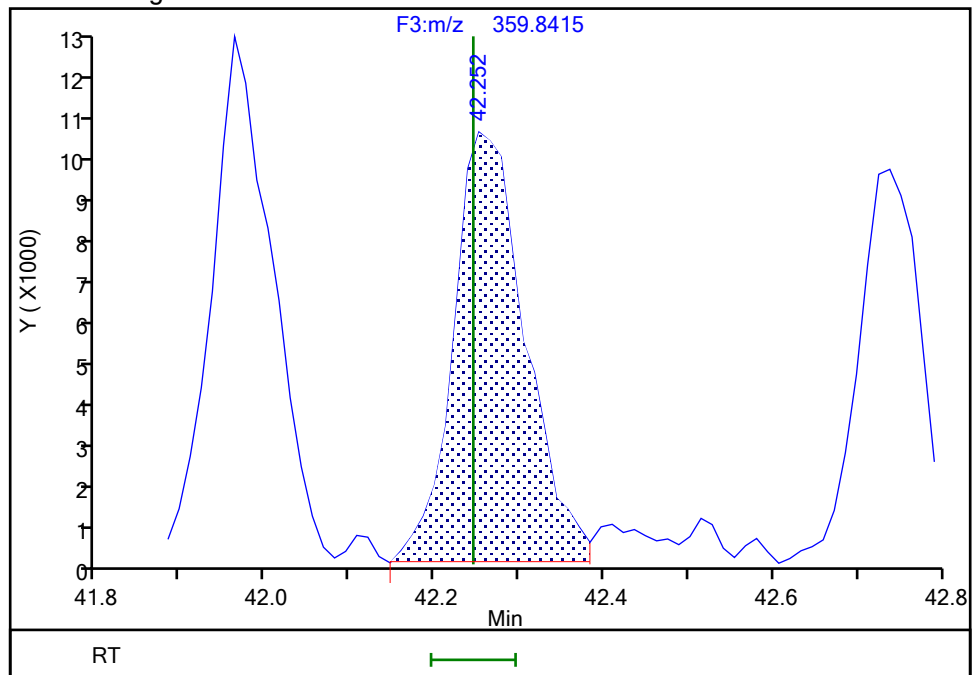
RT: 42.25
Area: 65718
Amount: 1.114273
Amount Units: pg/ul

Processing Integration Results



RT: 42.25
Area: 59673
Amount: 1.039801
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:43 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

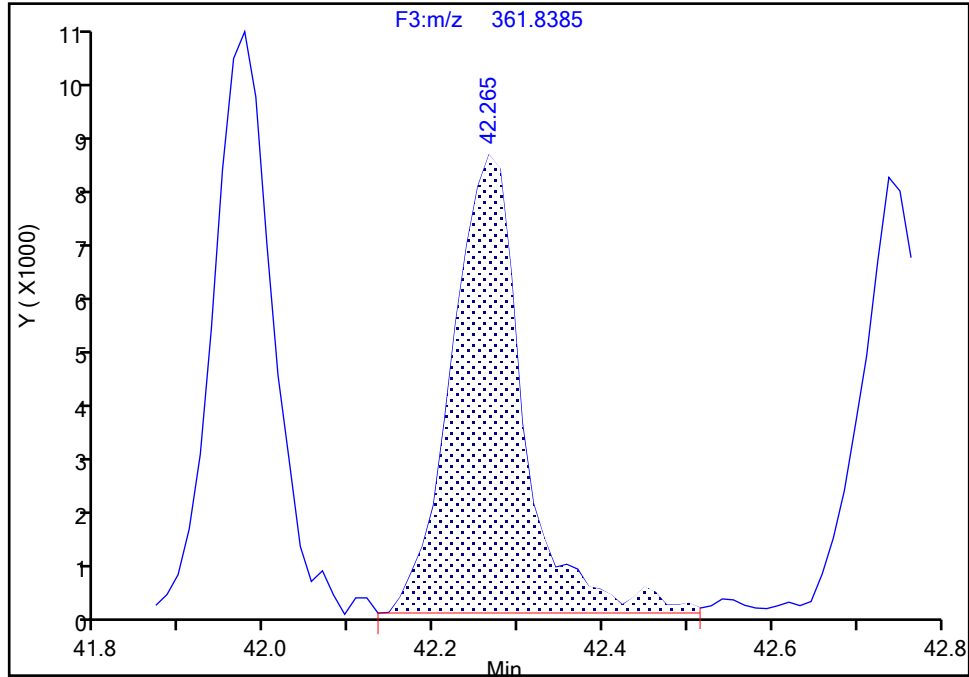
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-162, CAS: 39635-34-2

Signal: 2

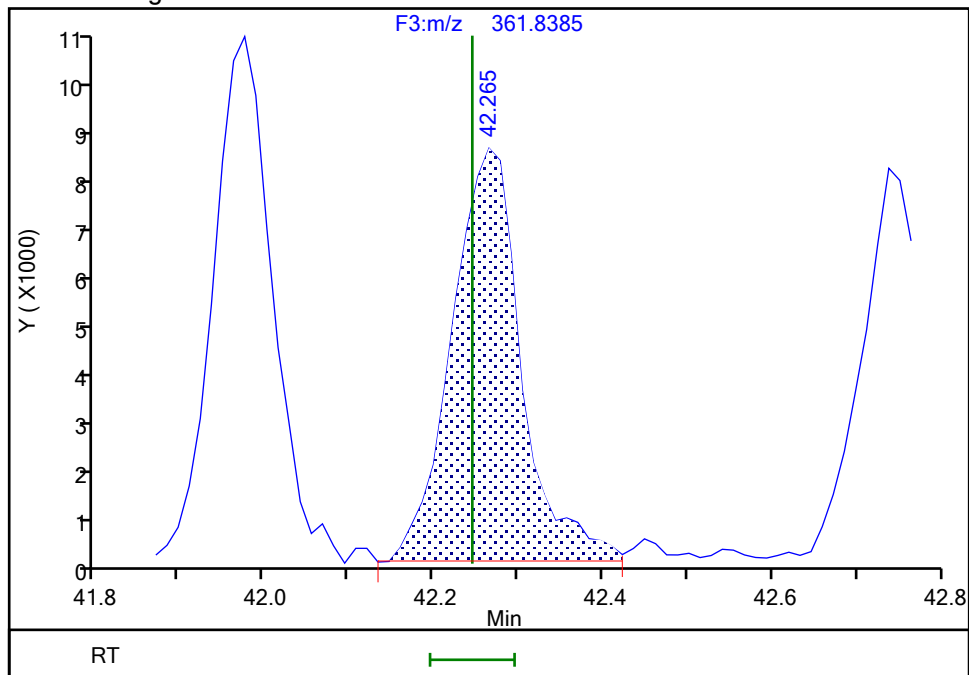
RT: 42.26
Area: 48379
Amount: 1.114273
Amount Units: pg/ul

Processing Integration Results



RT: 42.26
Area: 47062
Amount: 1.039801
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:45 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1918 of 3050

BASFWC-McIntosh-009919

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

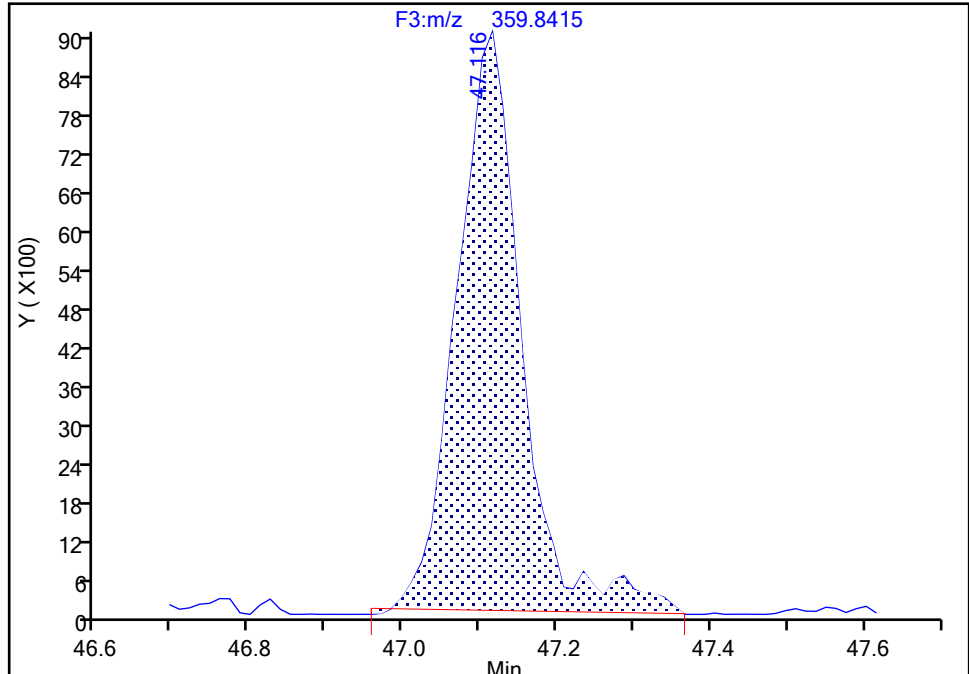
Detector F3(35.64 :49.10)

PCB-169, CAS: 32774-16-6

Signal: 1

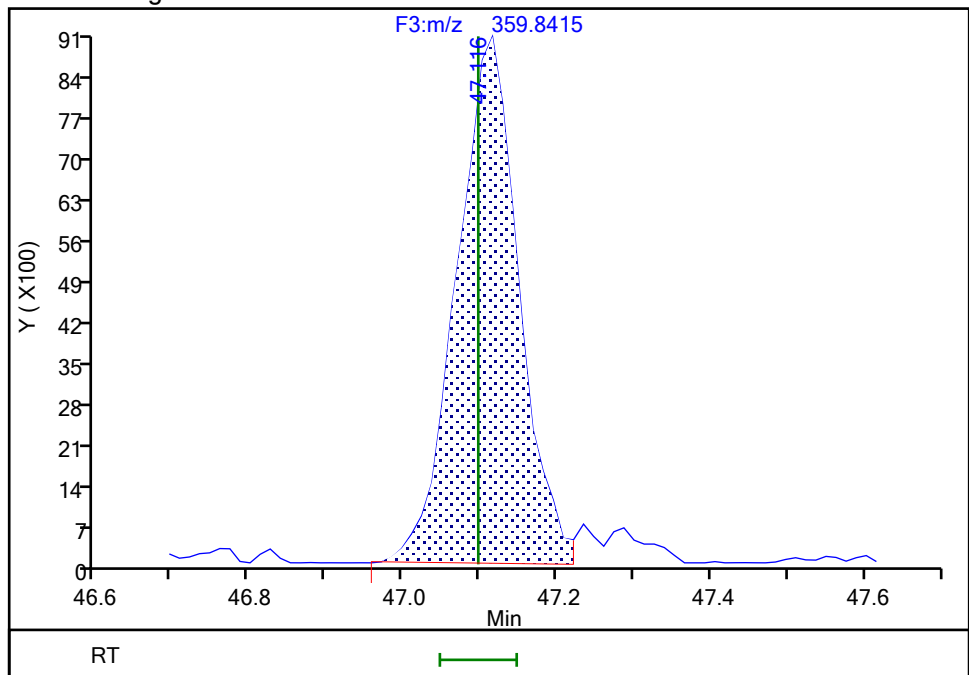
RT: 47.12
Area: 52919
Amount: 0.942481
Amount Units: pg/ul

Processing Integration Results



RT: 47.12
Area: 50749
Amount: 0.953752
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

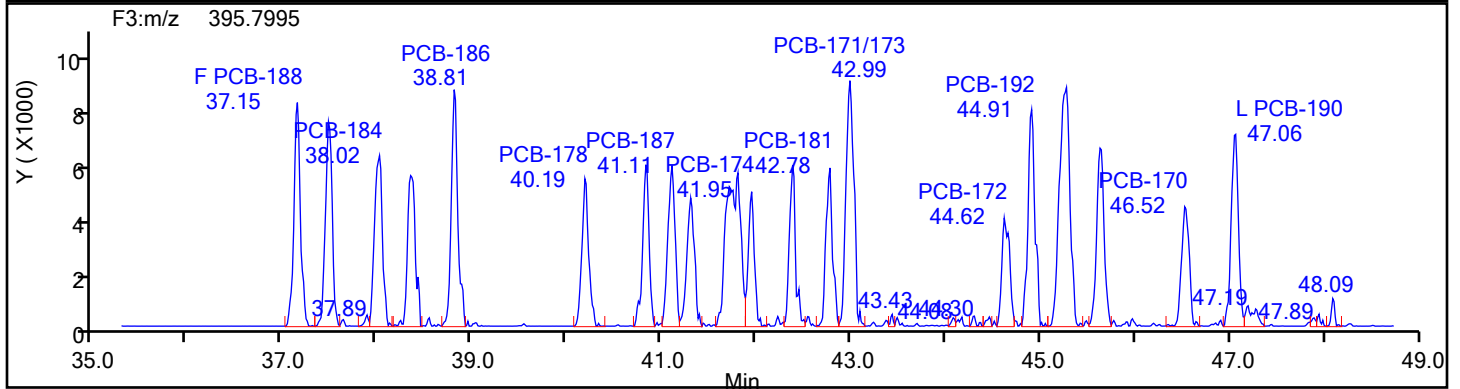
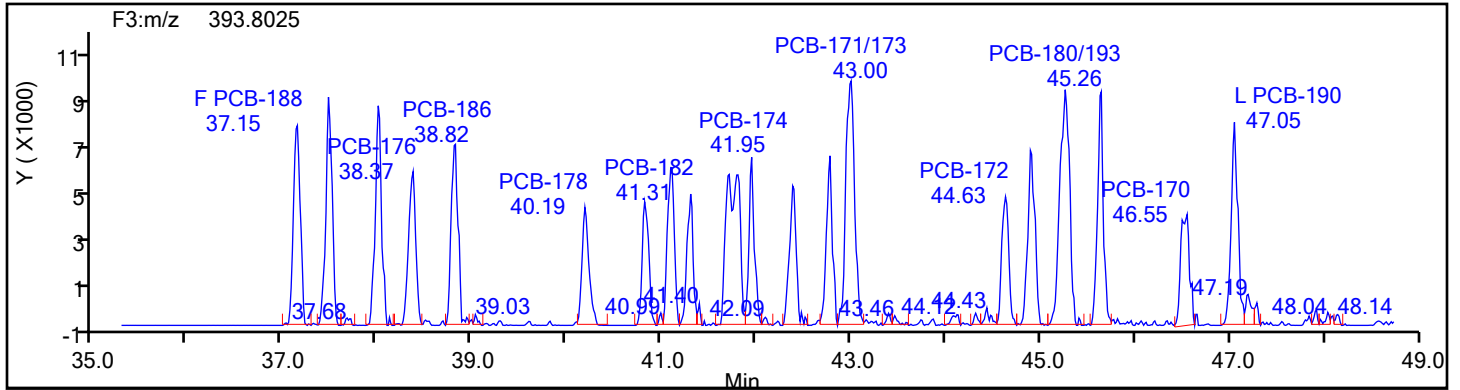
Worklist#: 87130

Sample Line#: 2

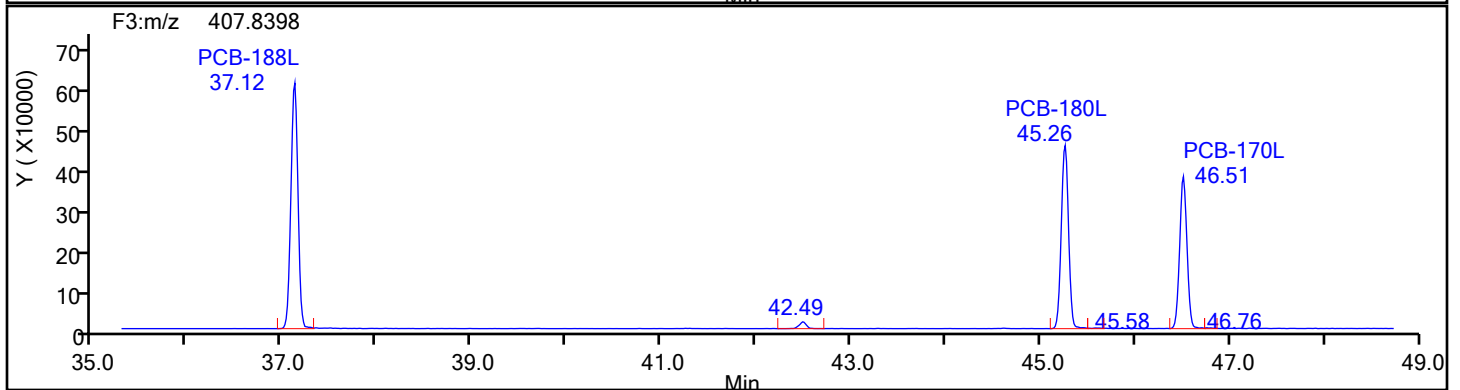
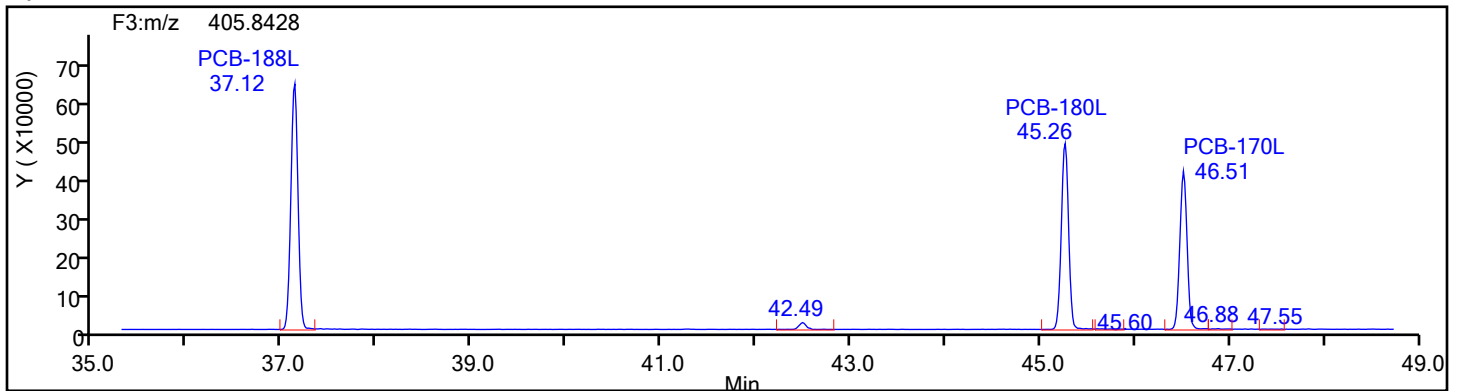
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

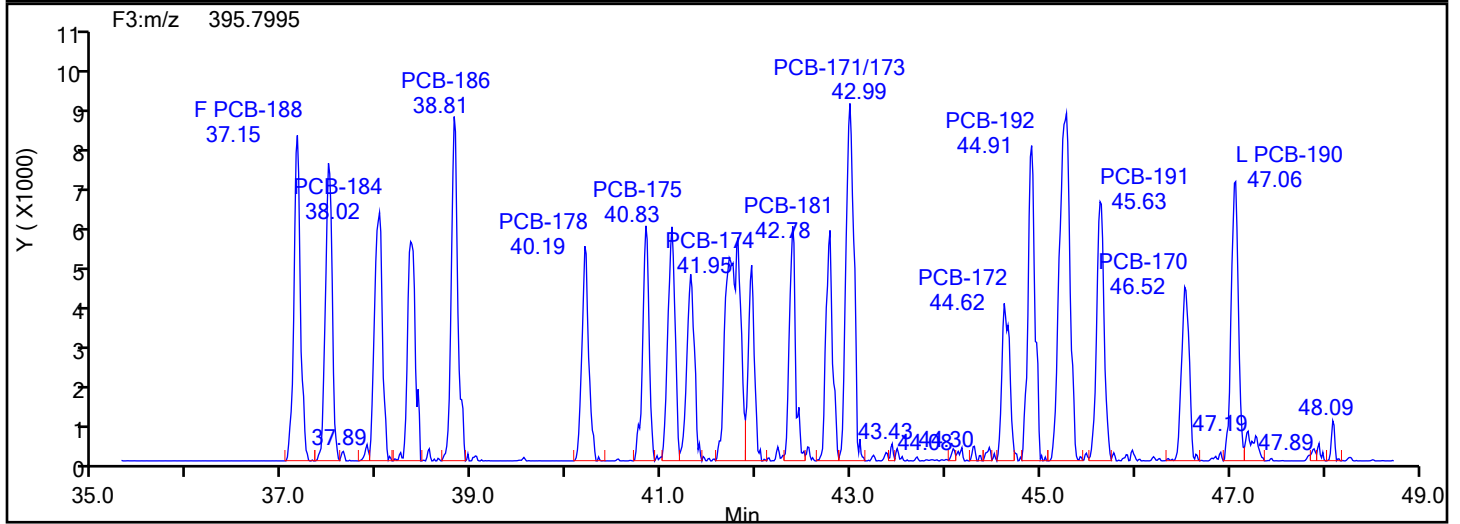
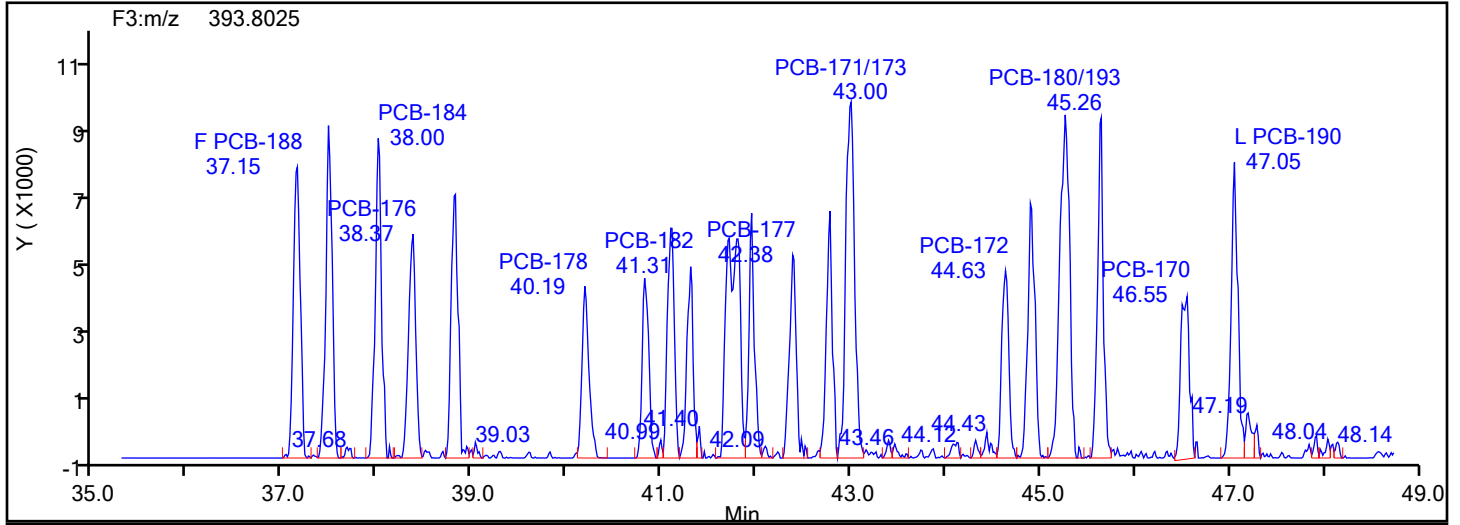
Worklist#: 87130

Sample Line#: 2

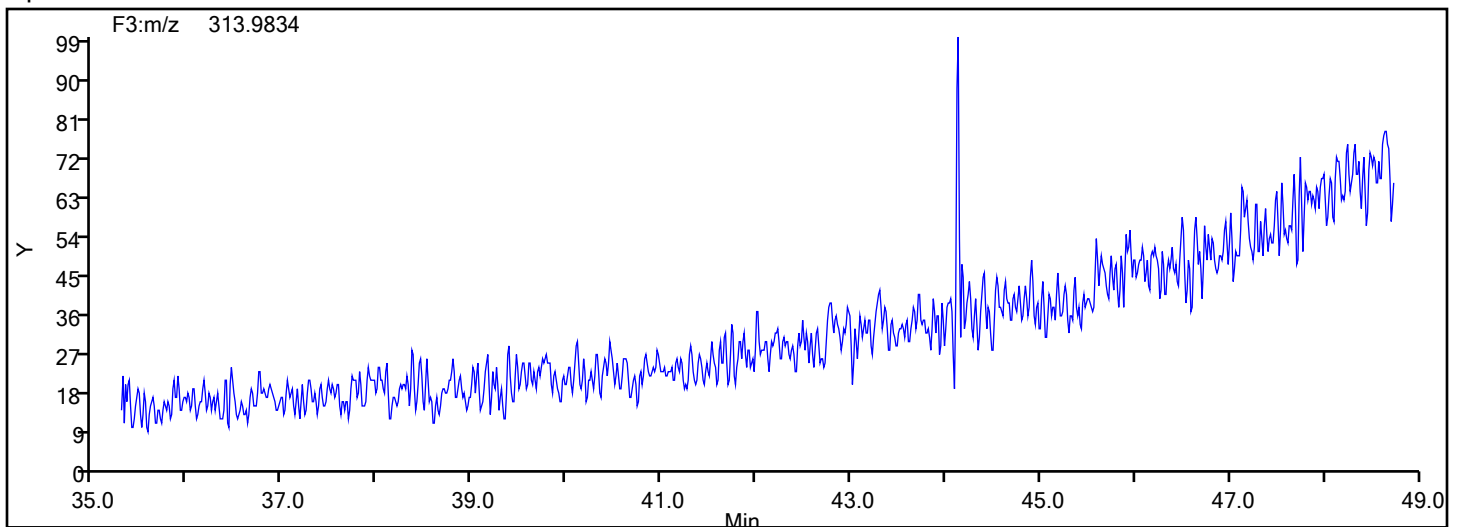
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

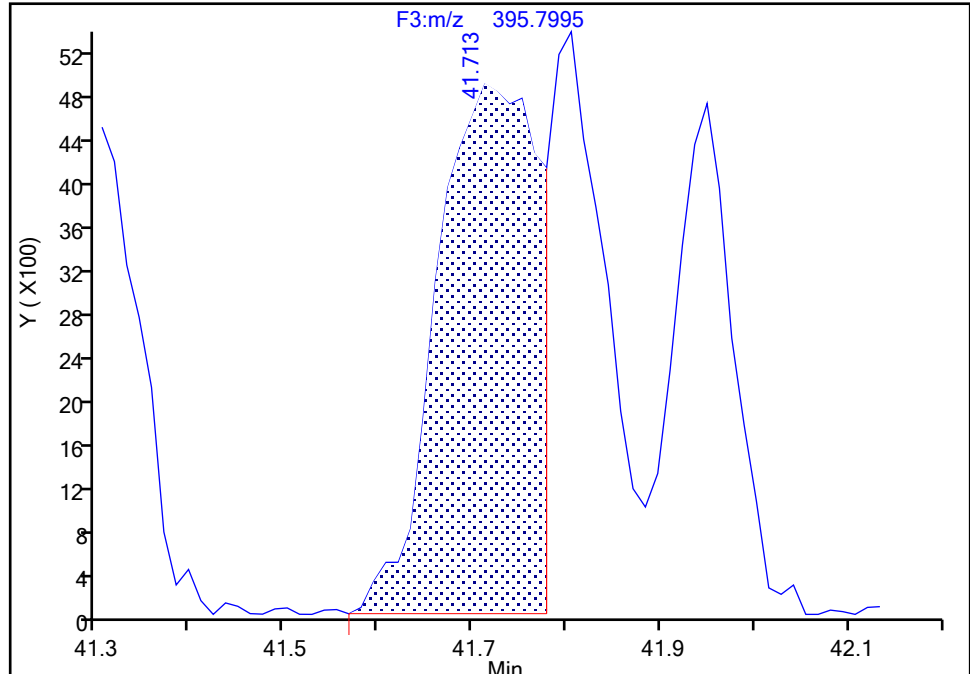
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

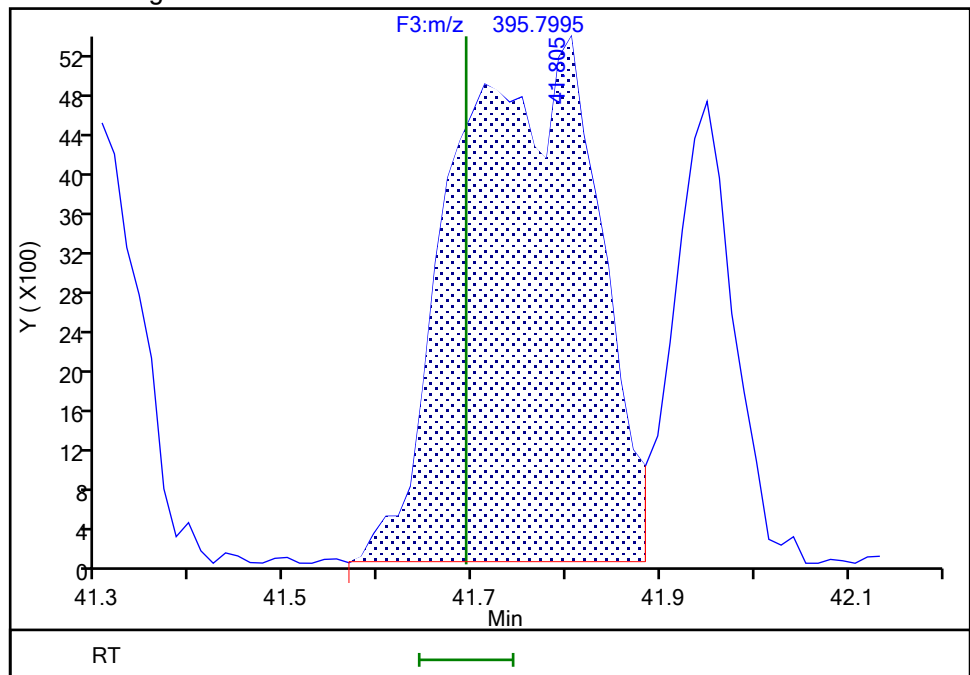
RT: 41.71
Area: 35572
Amount: 1.894030
Amount Units: pg/ul

Processing Integration Results



RT: 41.81
Area: 56781
Amount: 2.172586
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

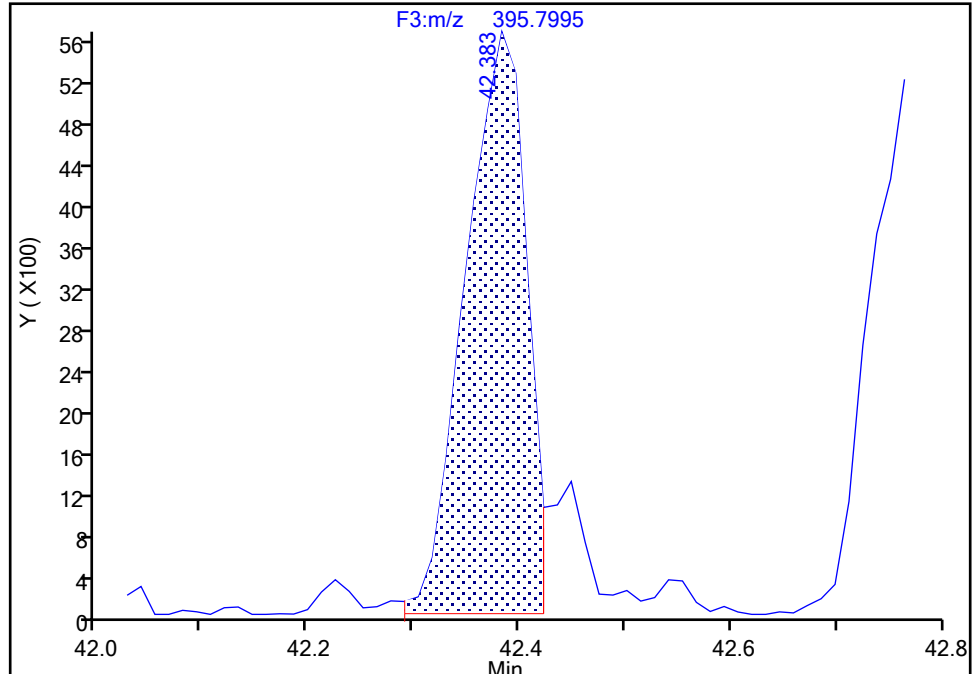
Detector F3(35.64 :49.10)

PCB-177, CAS: 52663-70-4

Signal: 2

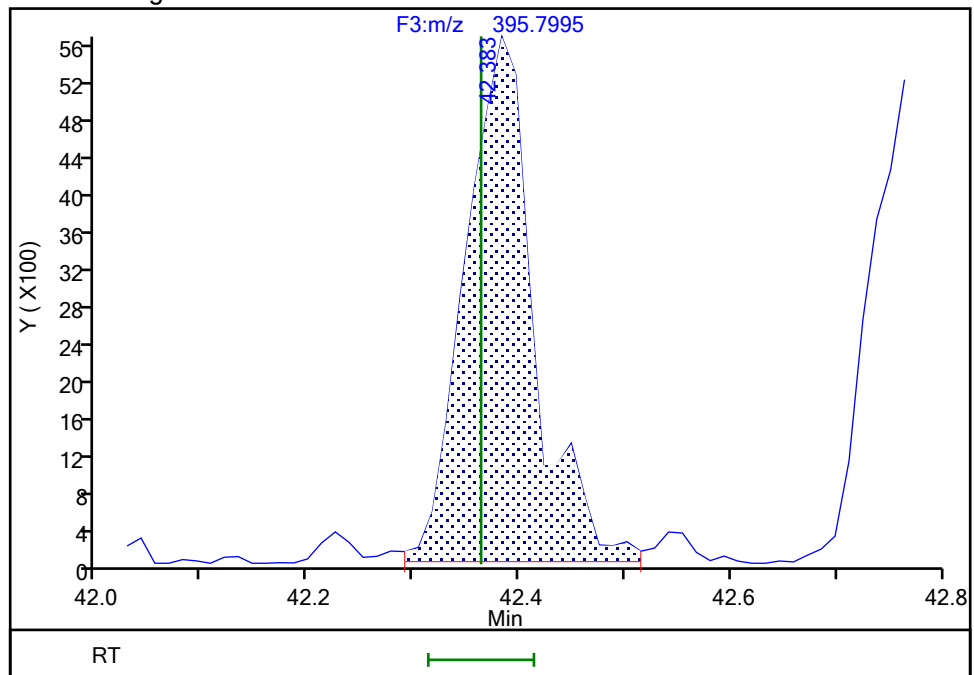
RT: 42.38
Area: 22341
Amount: 0.948456
Amount Units: pg/ul

Processing Integration Results



RT: 42.38
Area: 25600
Amount: 1.006154
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:41:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

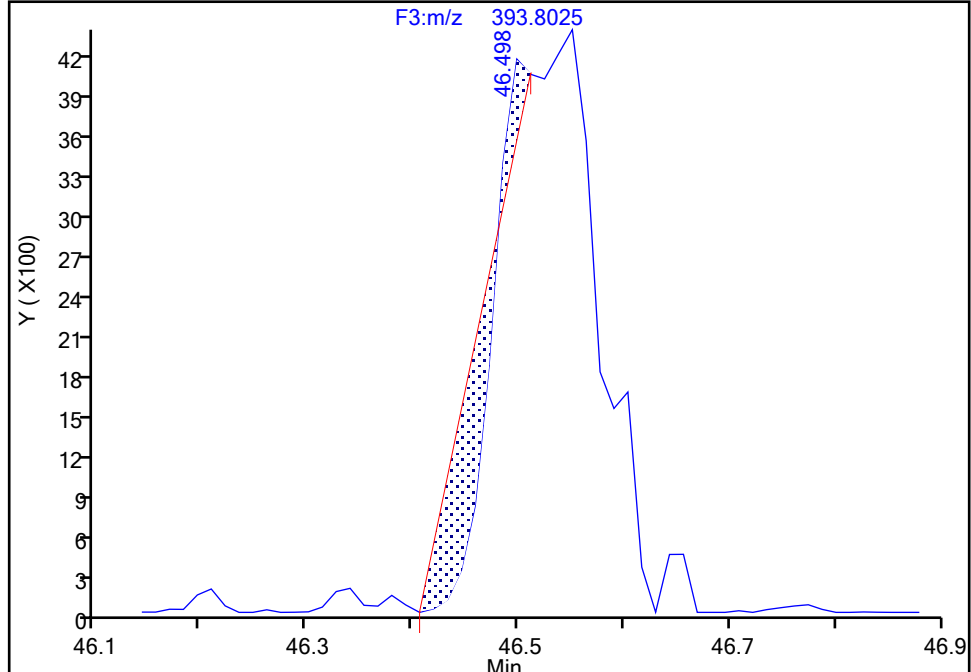
F3(35.64 :49.10)

PCB-170, CAS: 35065-30-6

Signal: 1

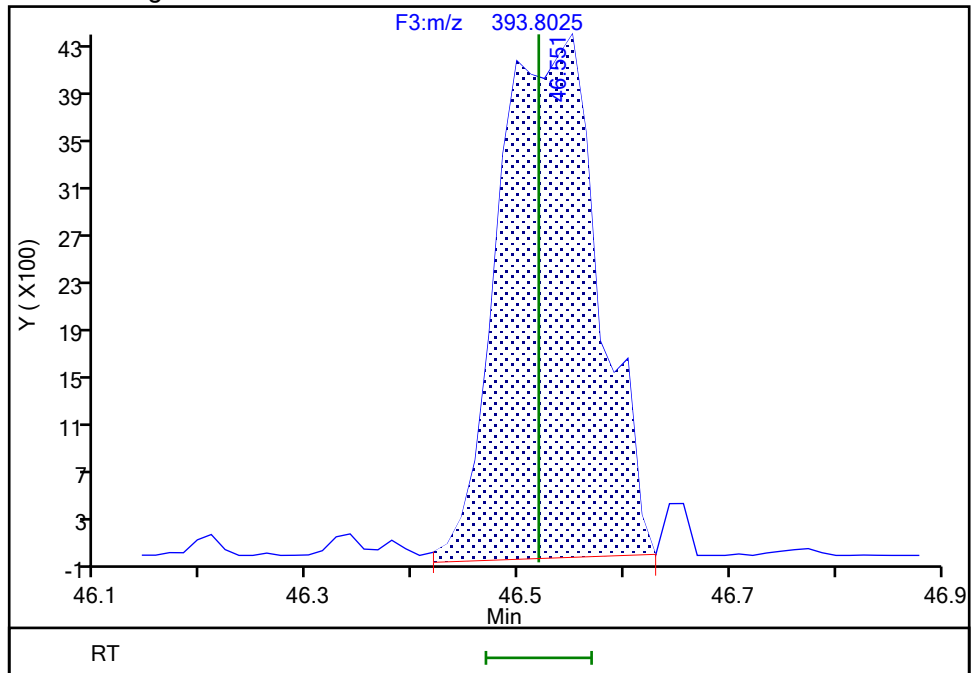
RT: 46.50
Area: 2737
Amount: 0.589206
Amount Units: pg/ul

Processing Integration Results



RT: 46.55
Area: 28044
Amount: 1.019913
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

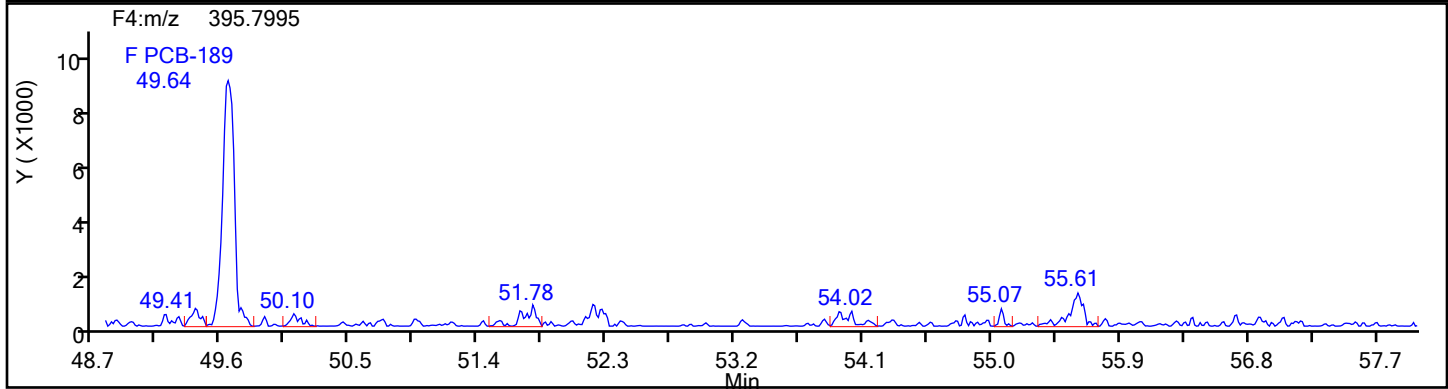
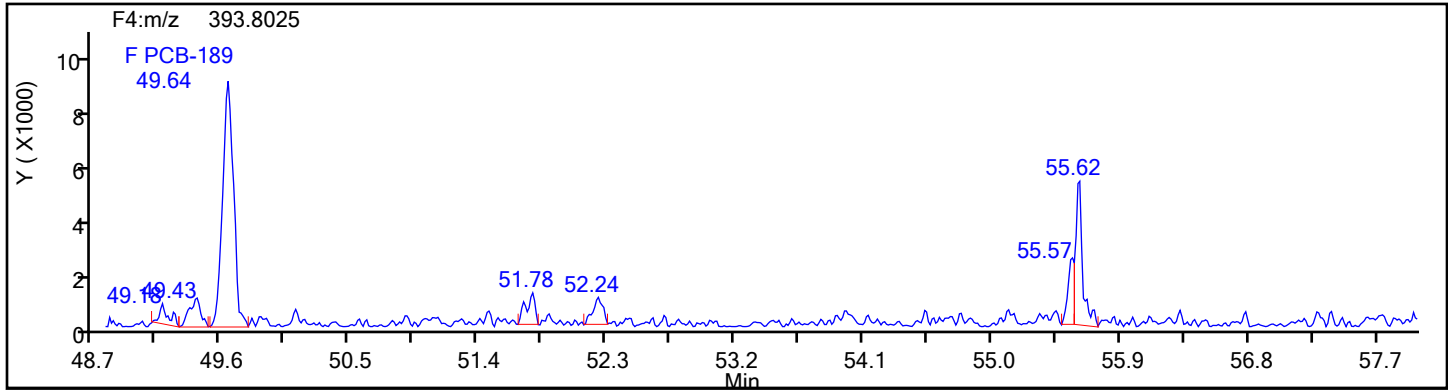
Worklist#: 87130

Sample Line#: 2

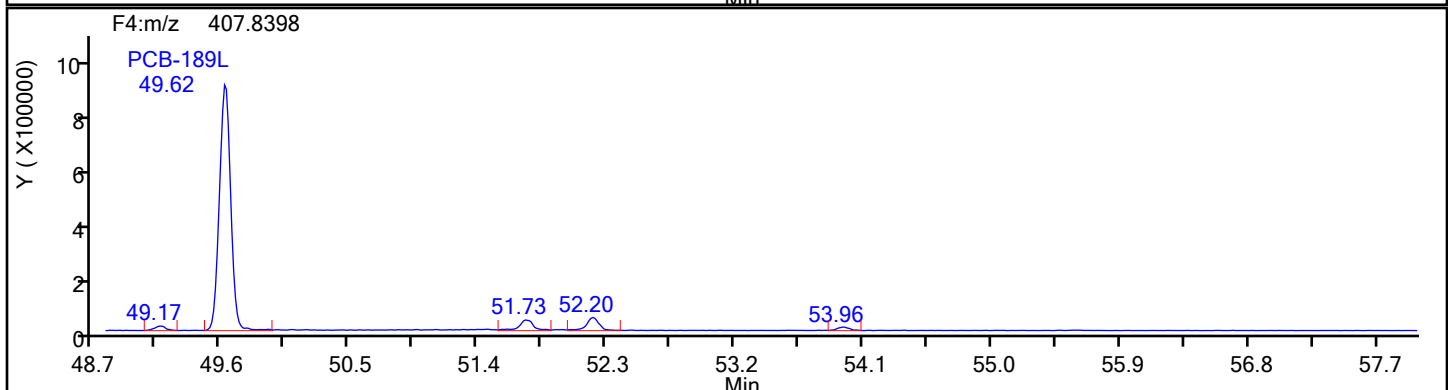
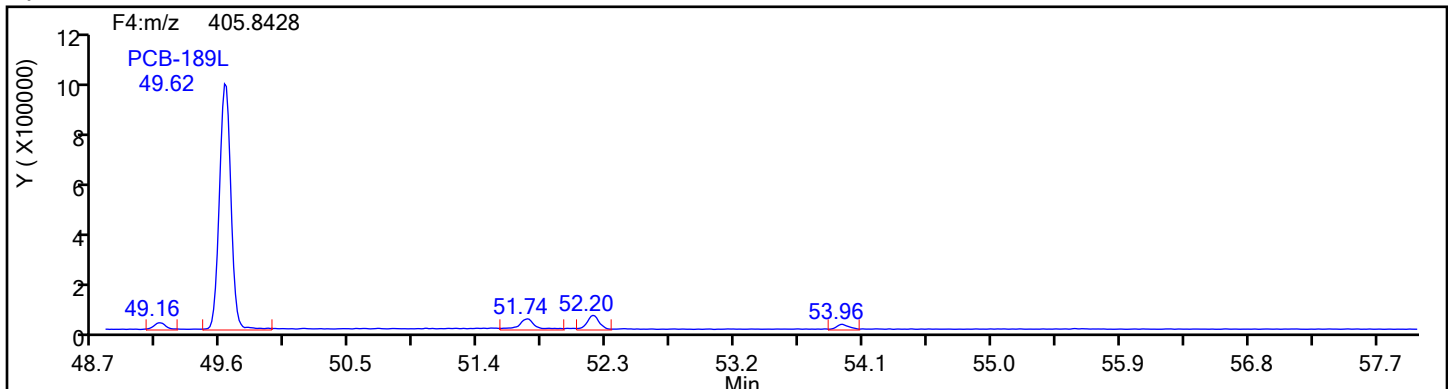
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

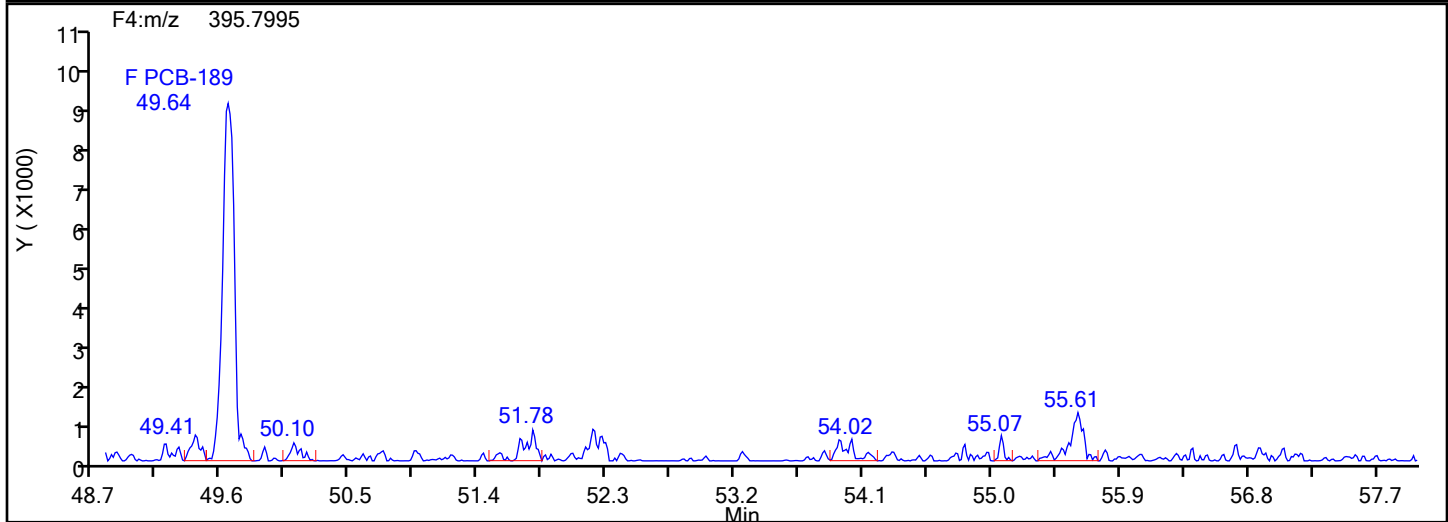
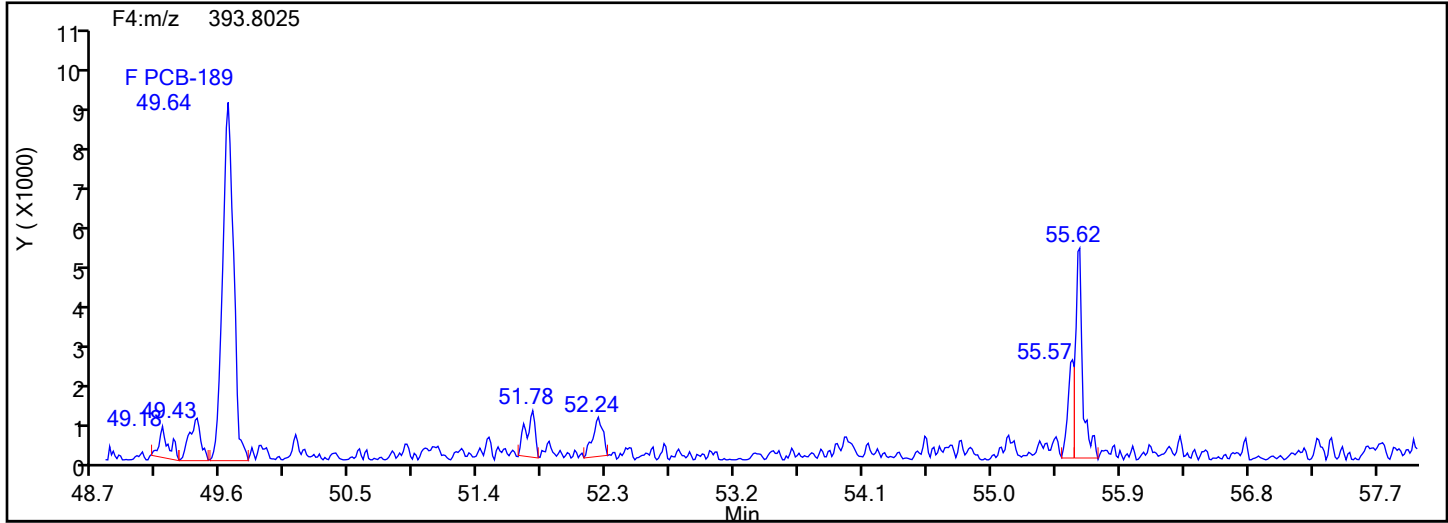
Worklist#: 87130

Sample Line#: 2

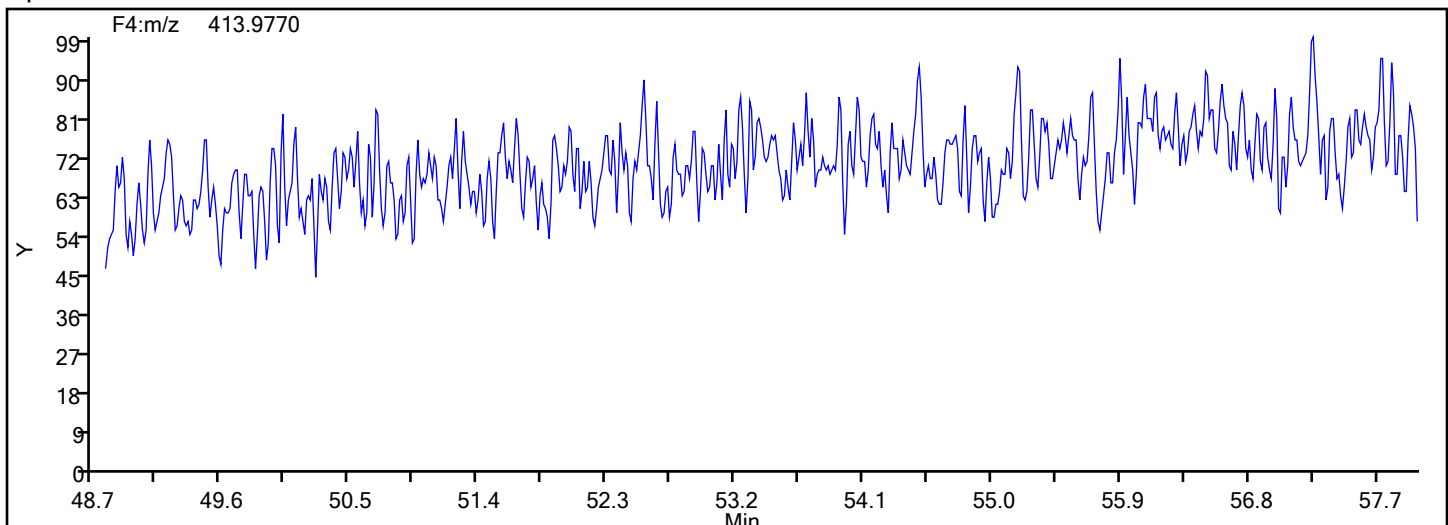
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

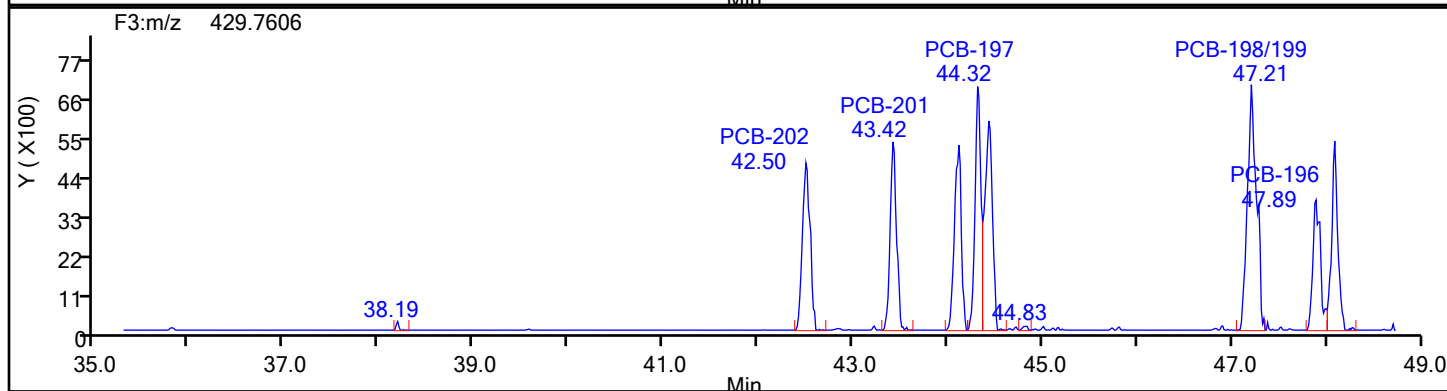
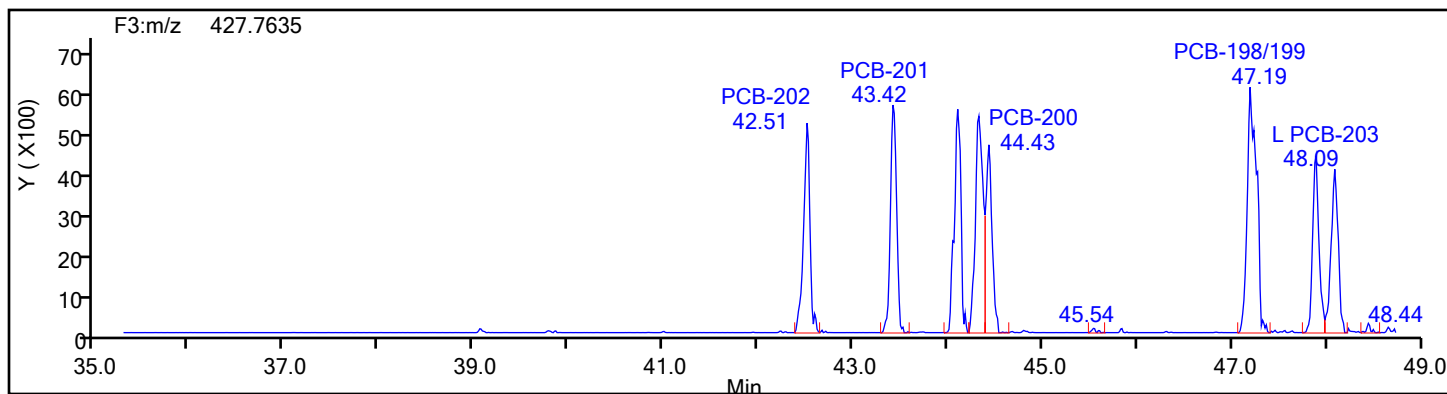
Worklist#: 87130

Sample Line#: 2

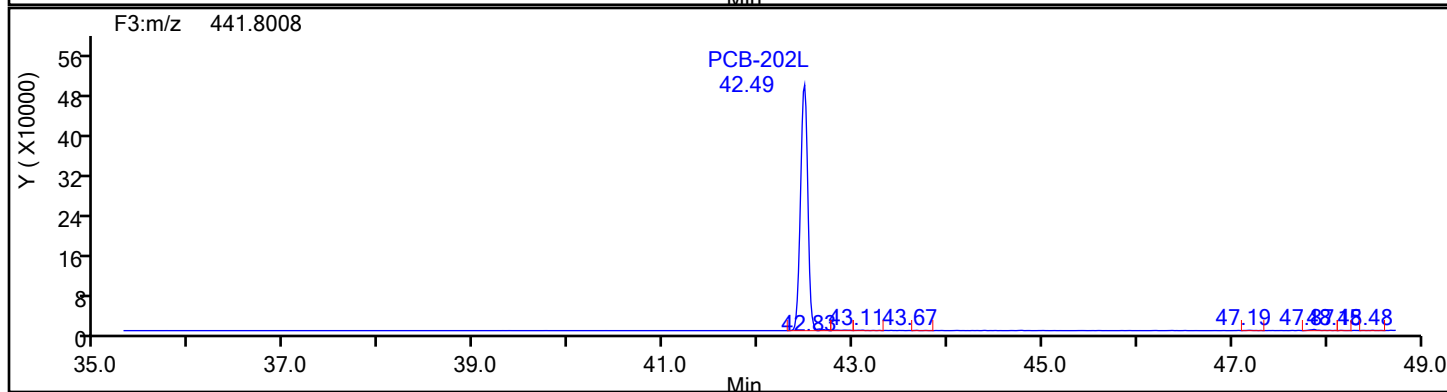
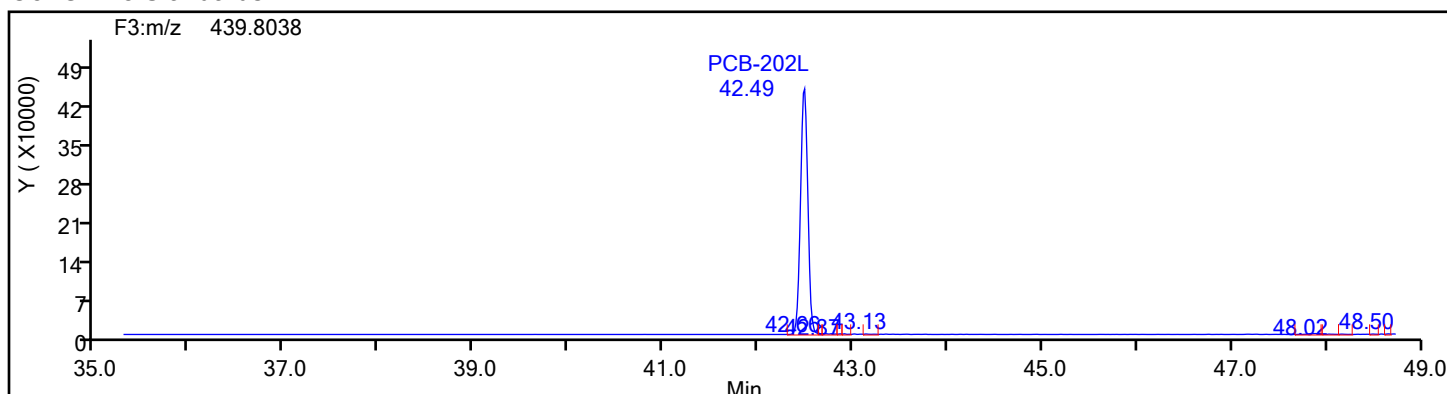
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

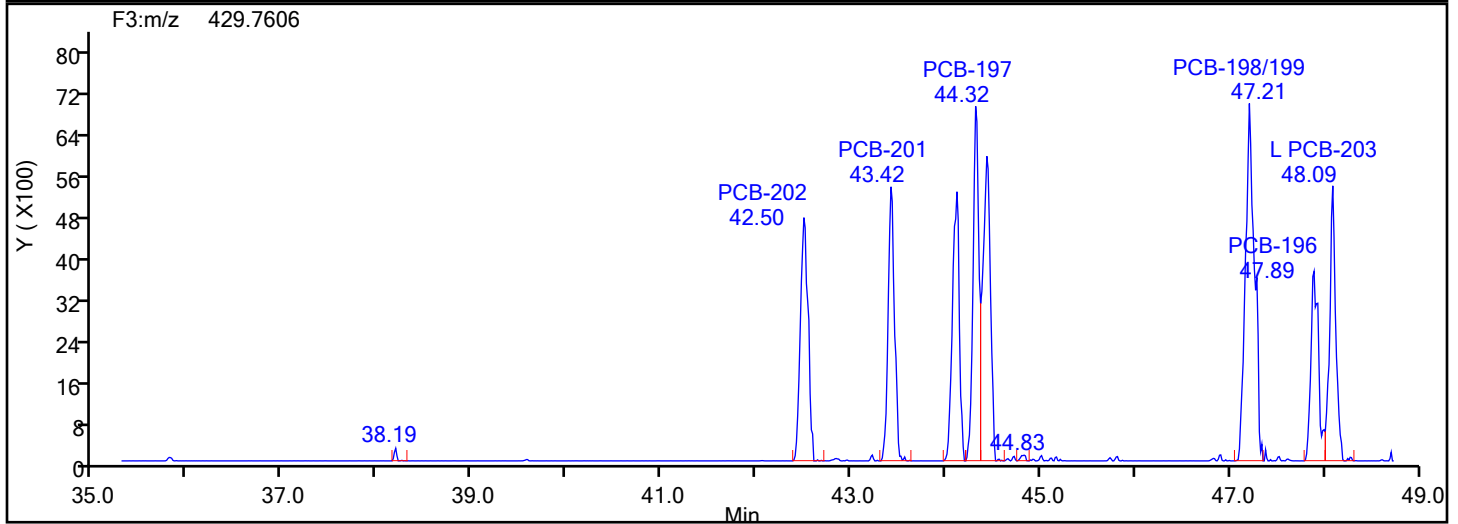
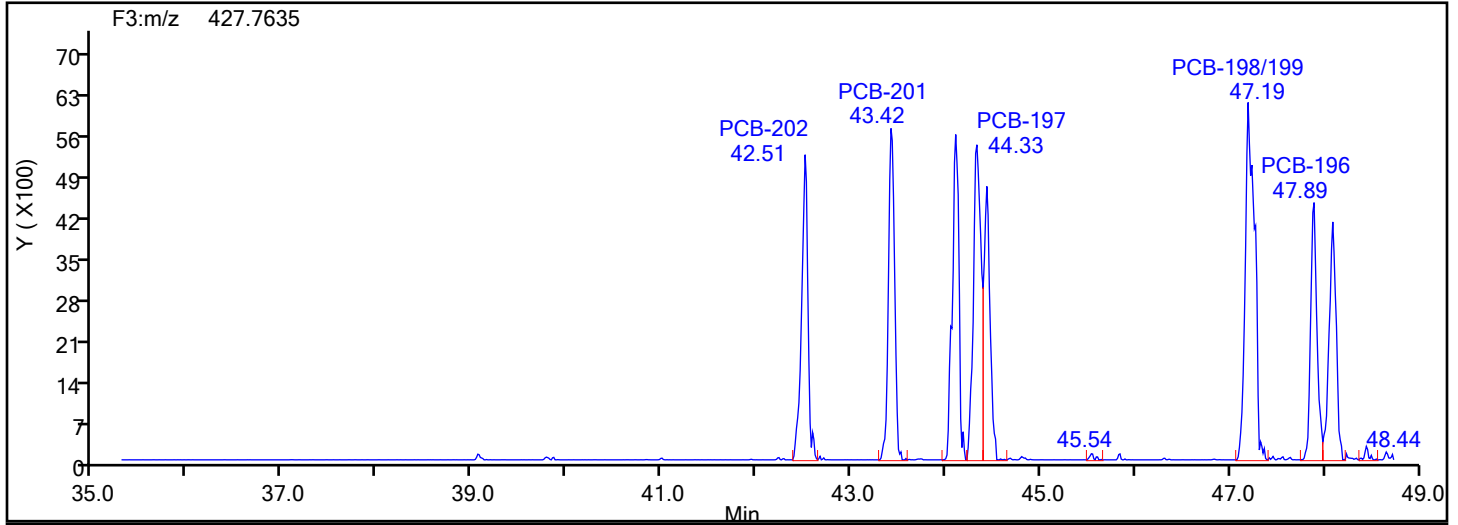
Worklist#: 87130

Sample Line#: 2

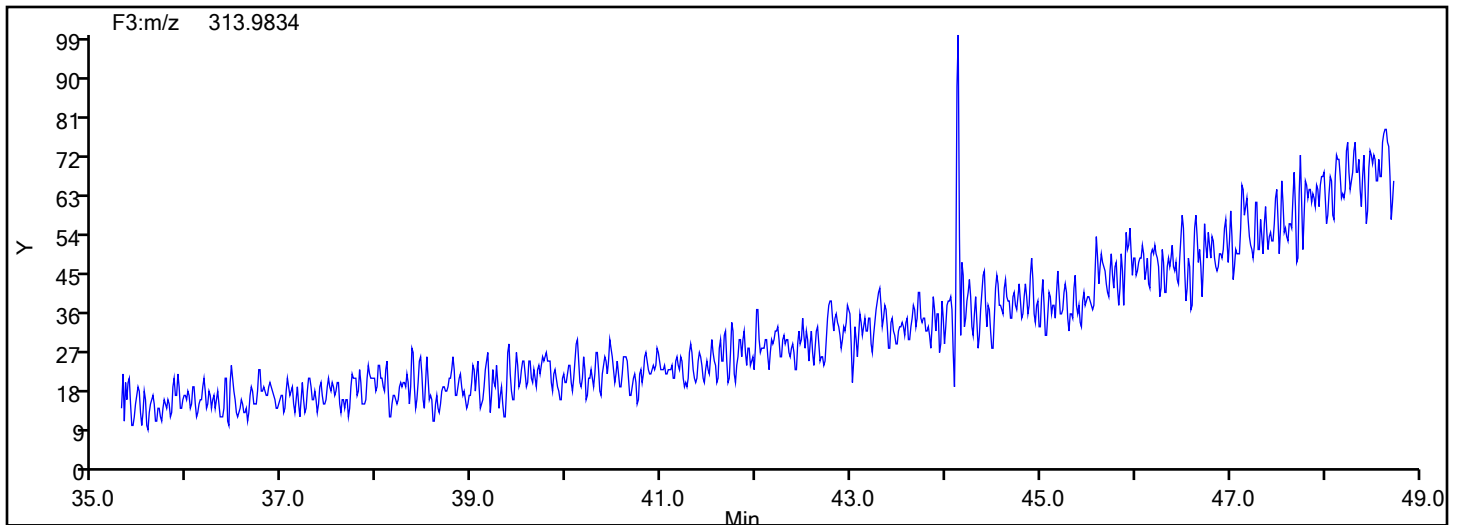
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

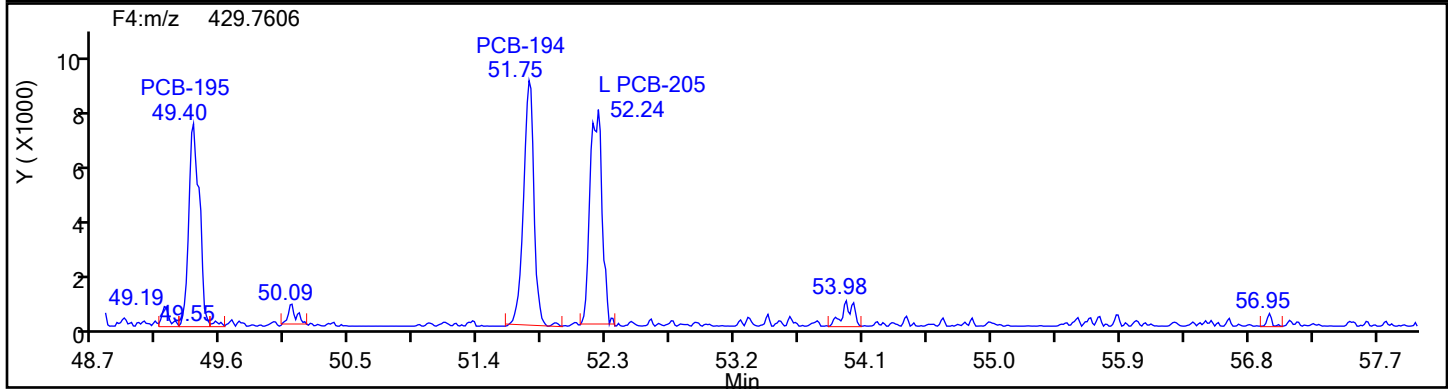
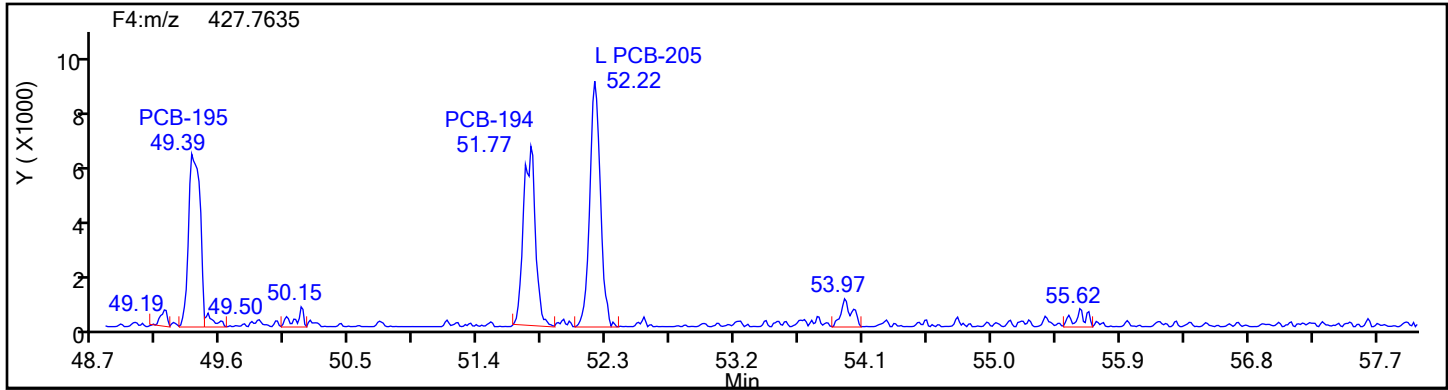
Worklist#: 87130

Sample Line#: 2

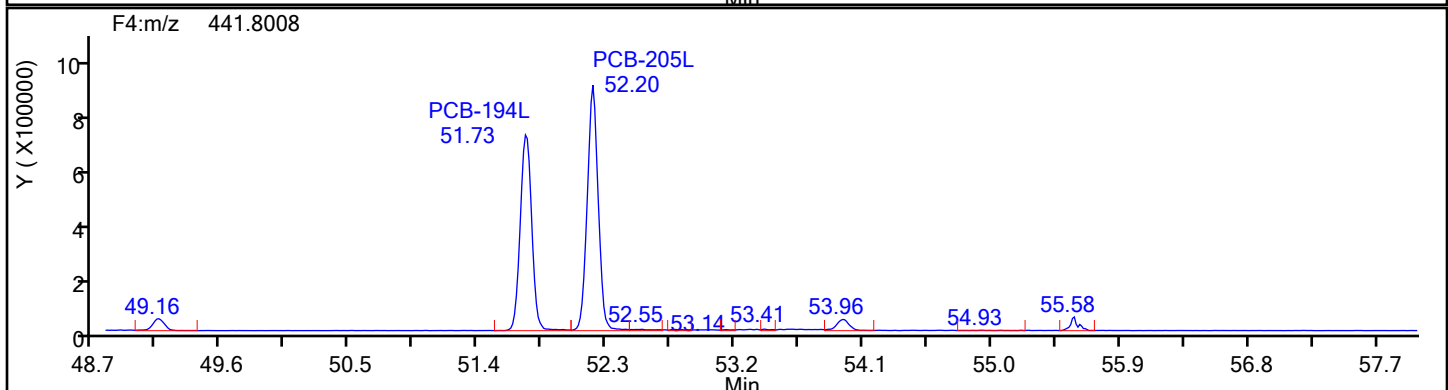
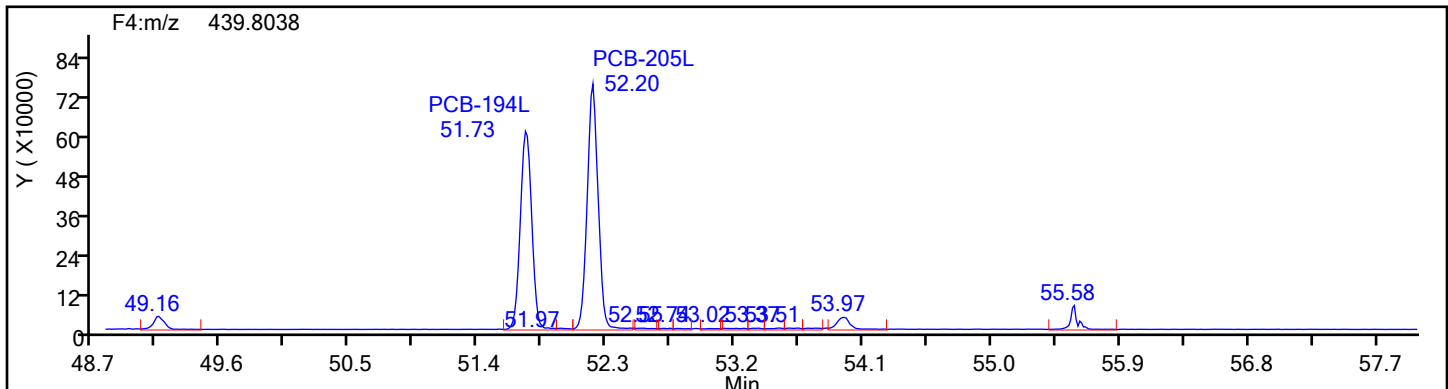
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

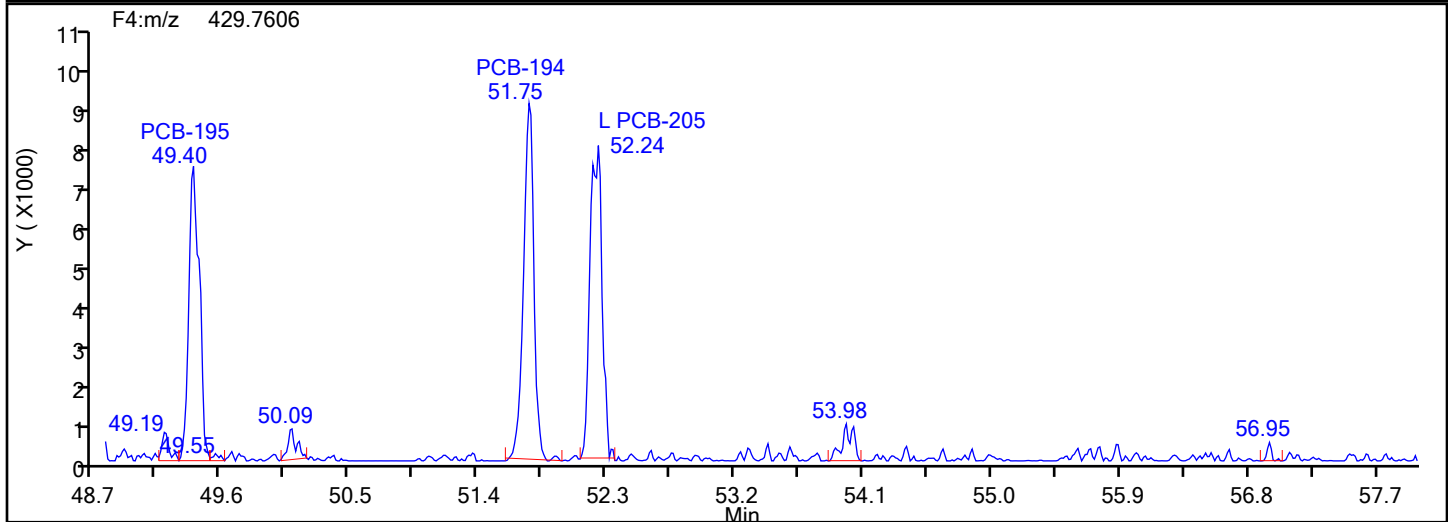
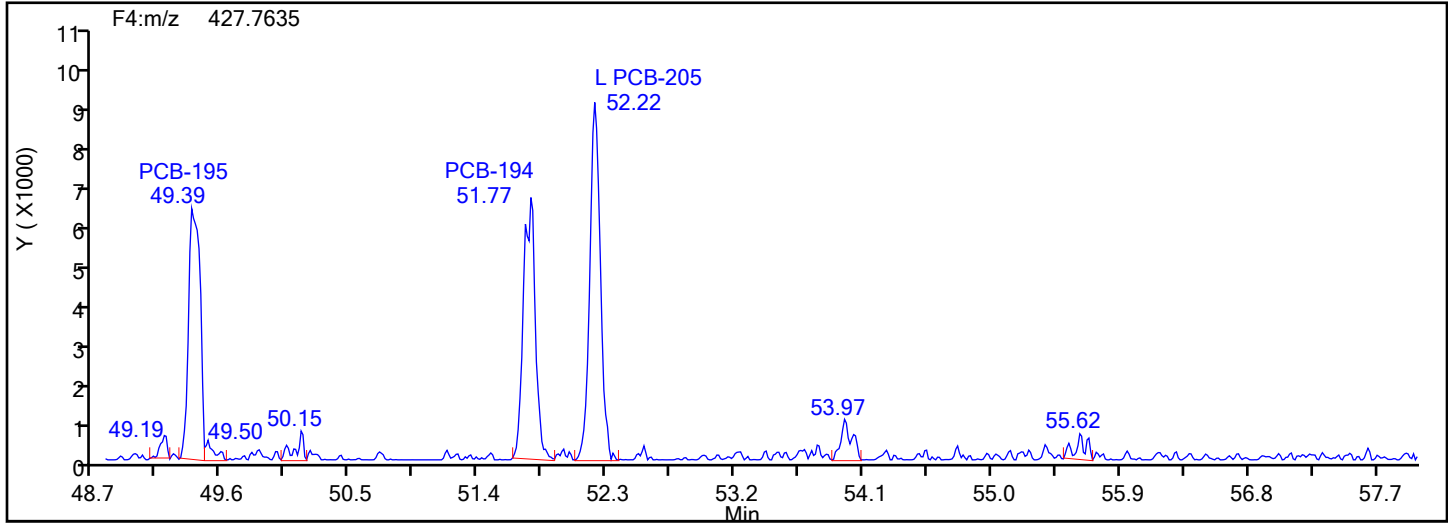
Worklist#: 87130

Sample Line#: 2

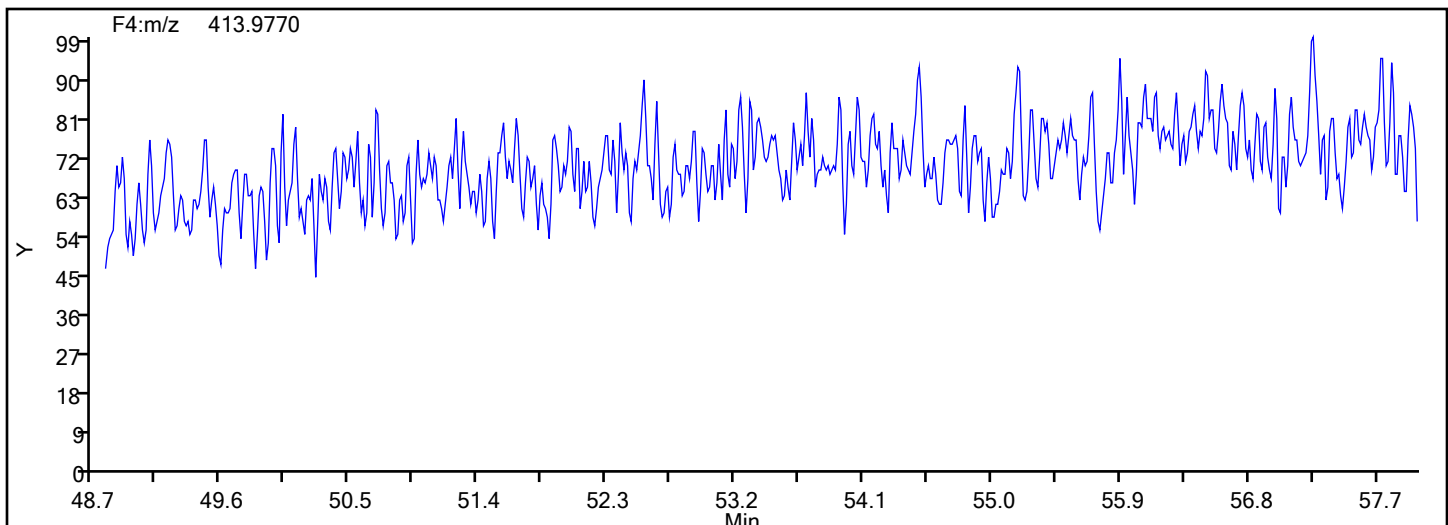
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

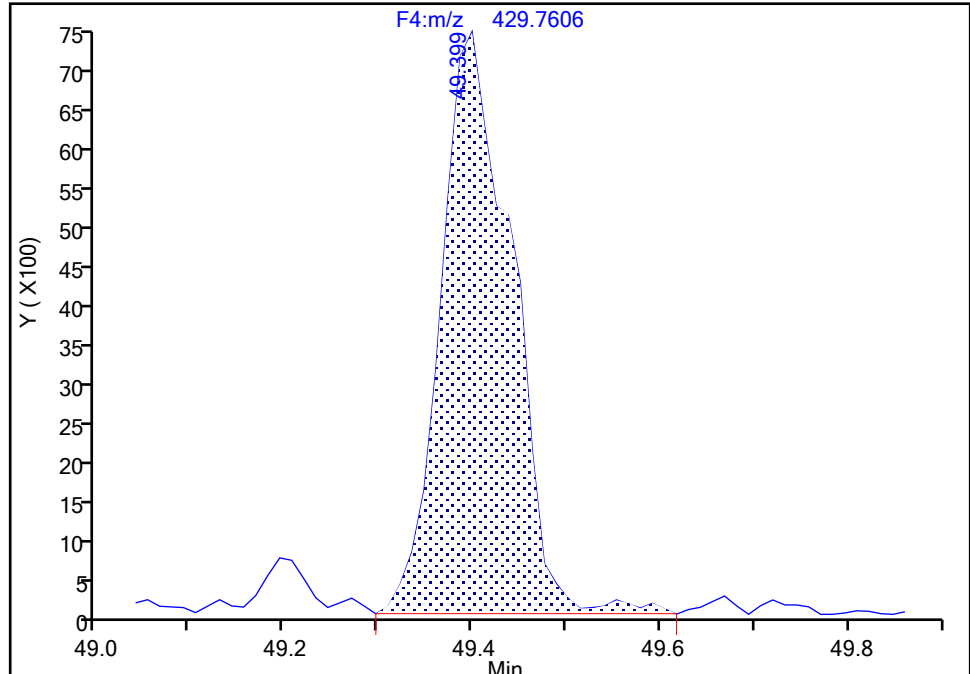
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 2

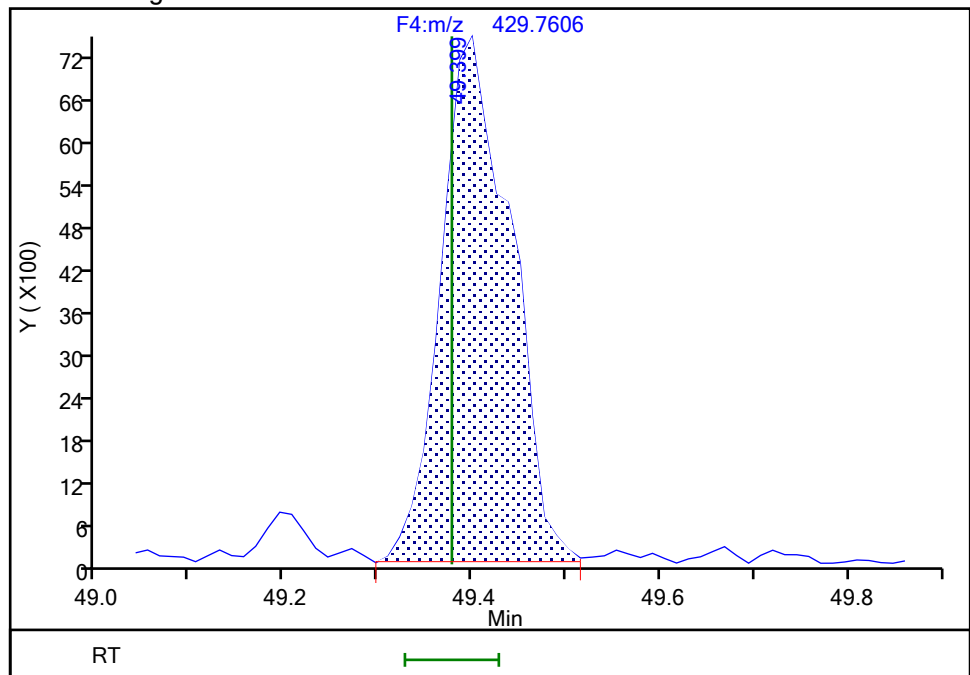
RT: 49.40
Area: 39042
Amount: 1.088758
Amount Units: pg/ul

Processing Integration Results



RT: 49.40
Area: 38418
Amount: 1.064369
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

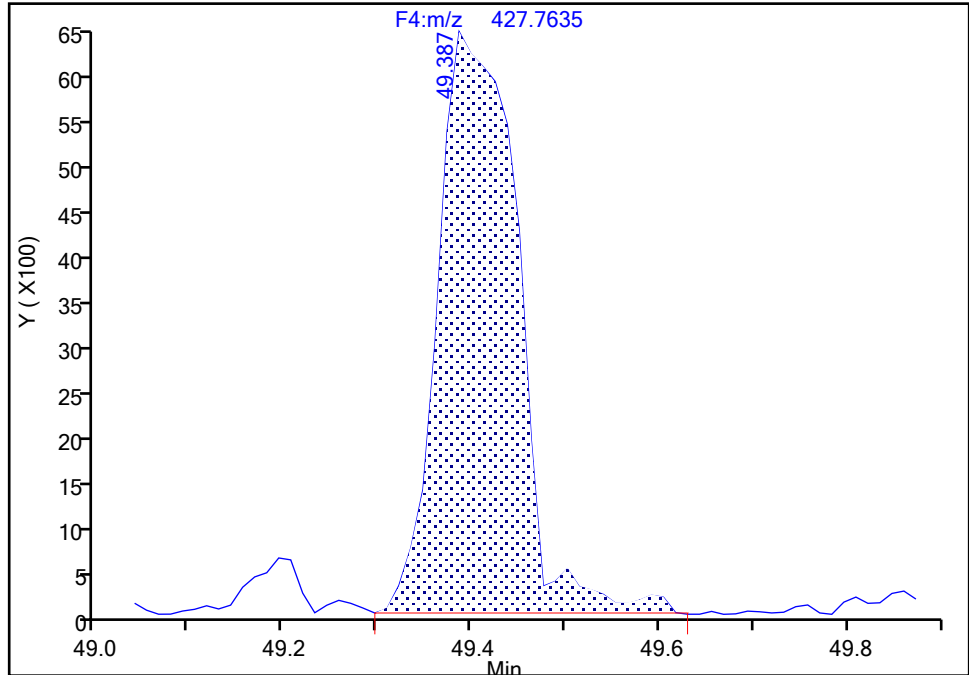
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-195, CAS: 52663-78-2

Signal: 1

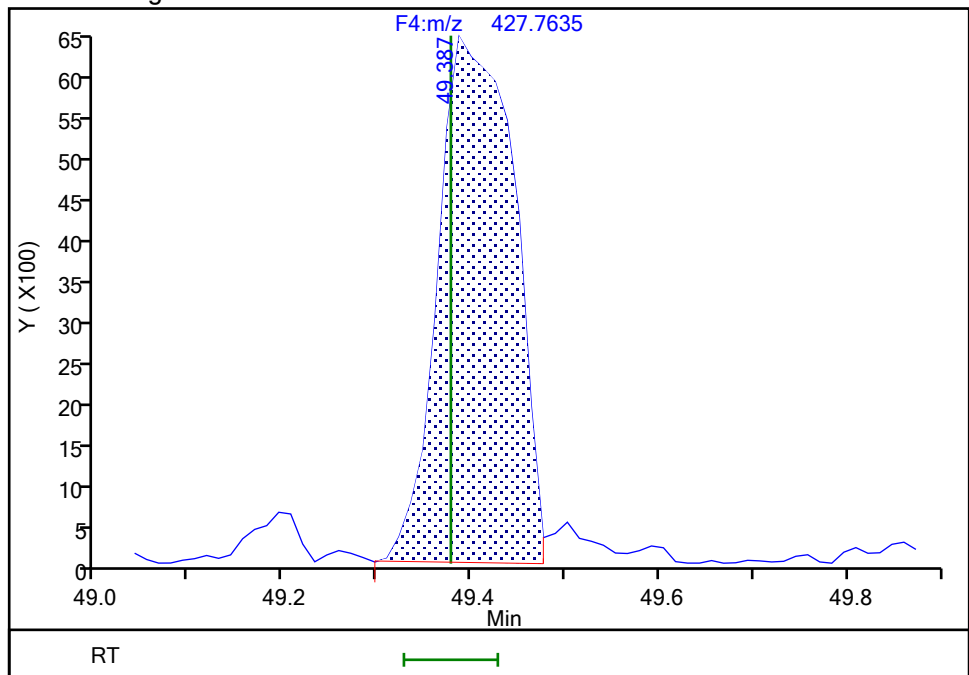
RT: 49.39
Area: 38025
Amount: 1.088758
Amount Units: pg/ul

Processing Integration Results



RT: 49.39
Area: 36050
Amount: 1.064369
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:59 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 1932 of 3050

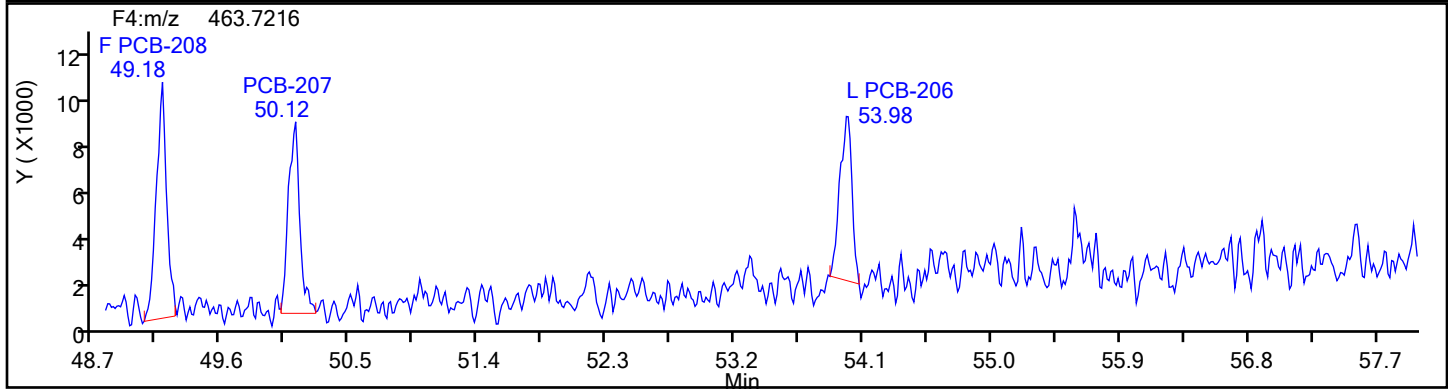
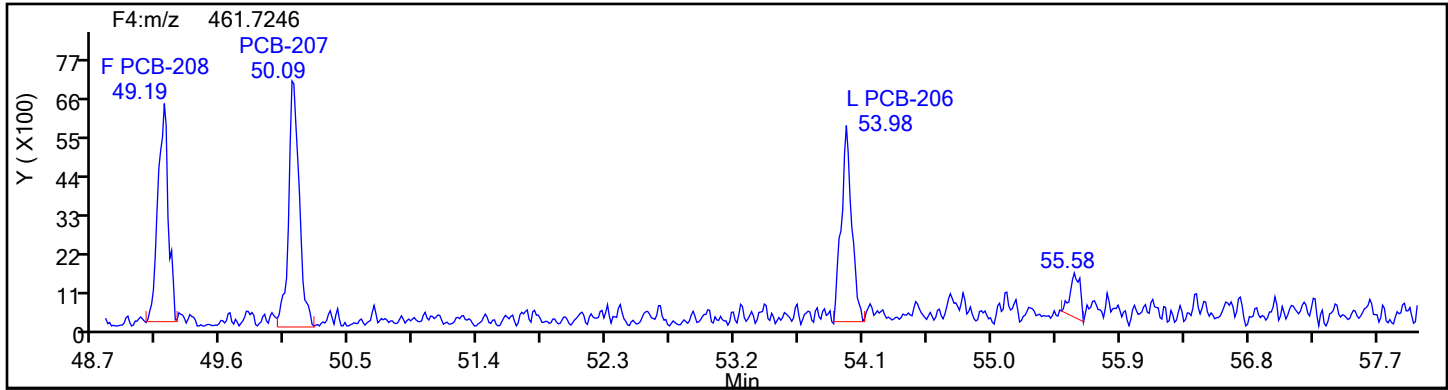
BASFWHC-McIntosh-009933

9/6/2024

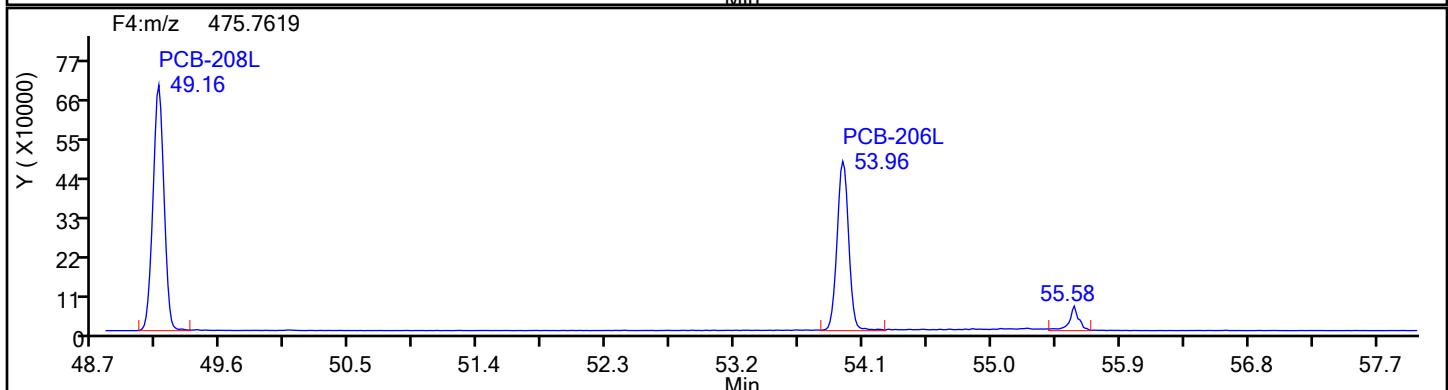
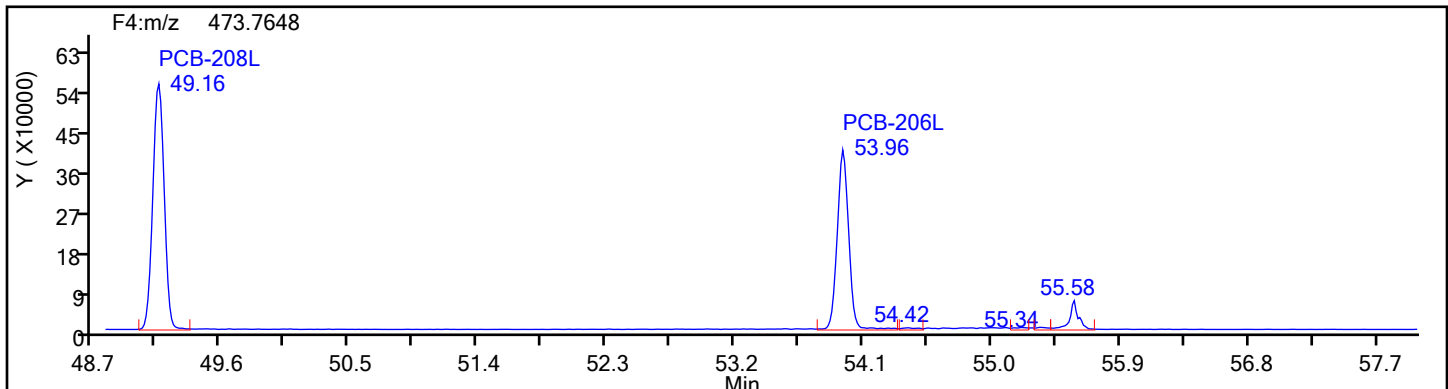
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 2
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

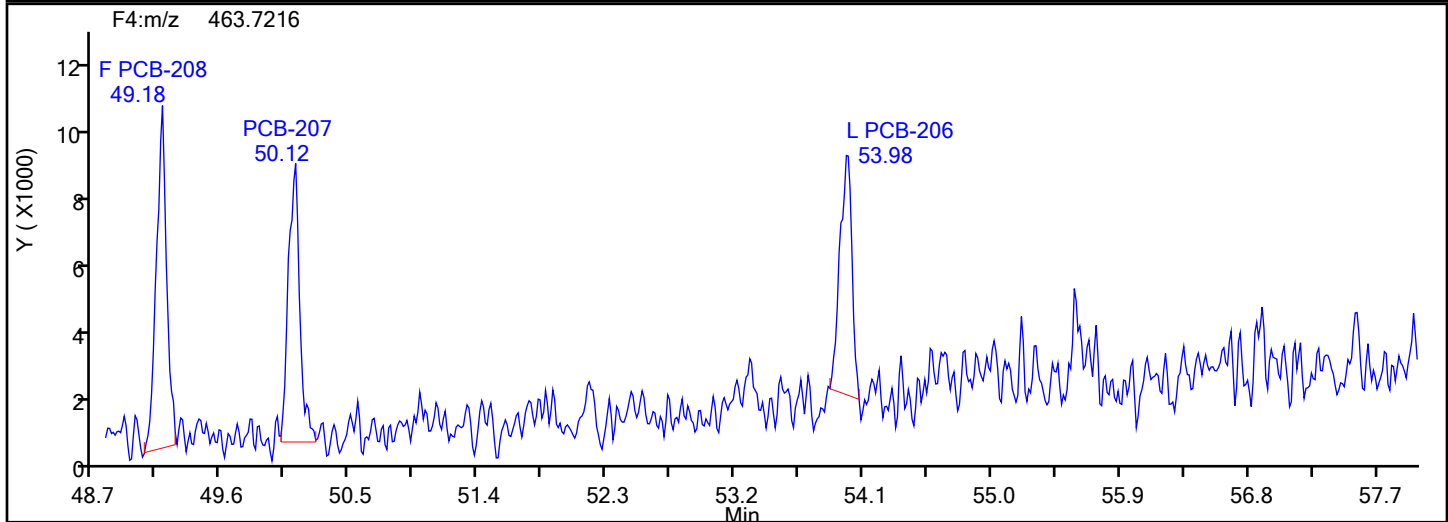
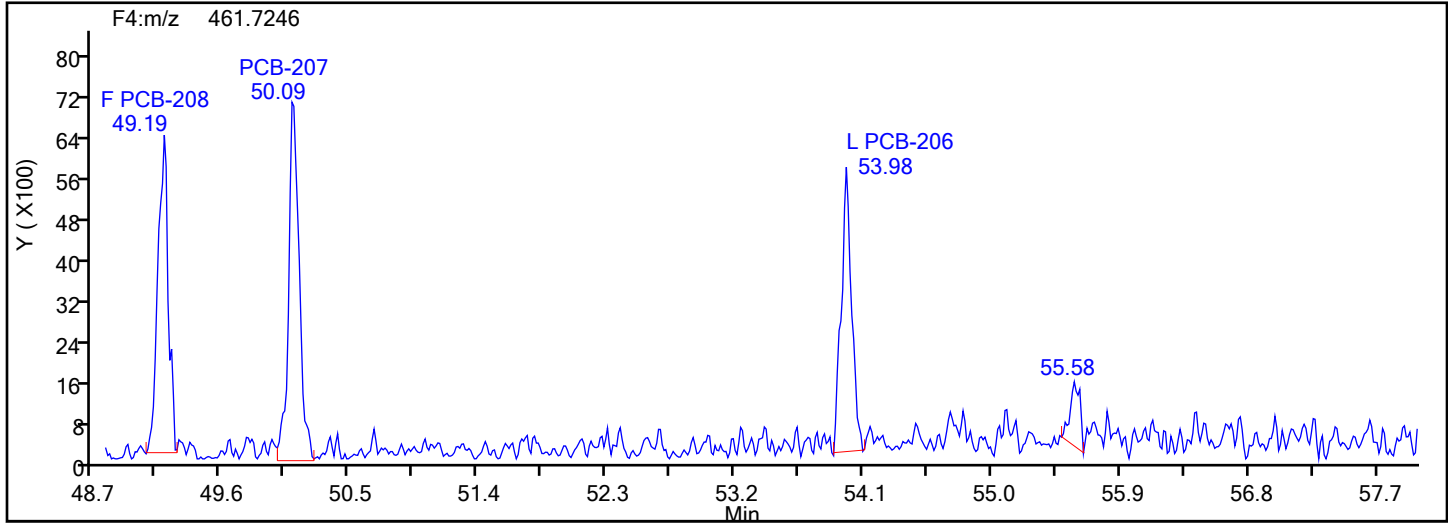
Worklist#: 87130

Sample Line#: 2

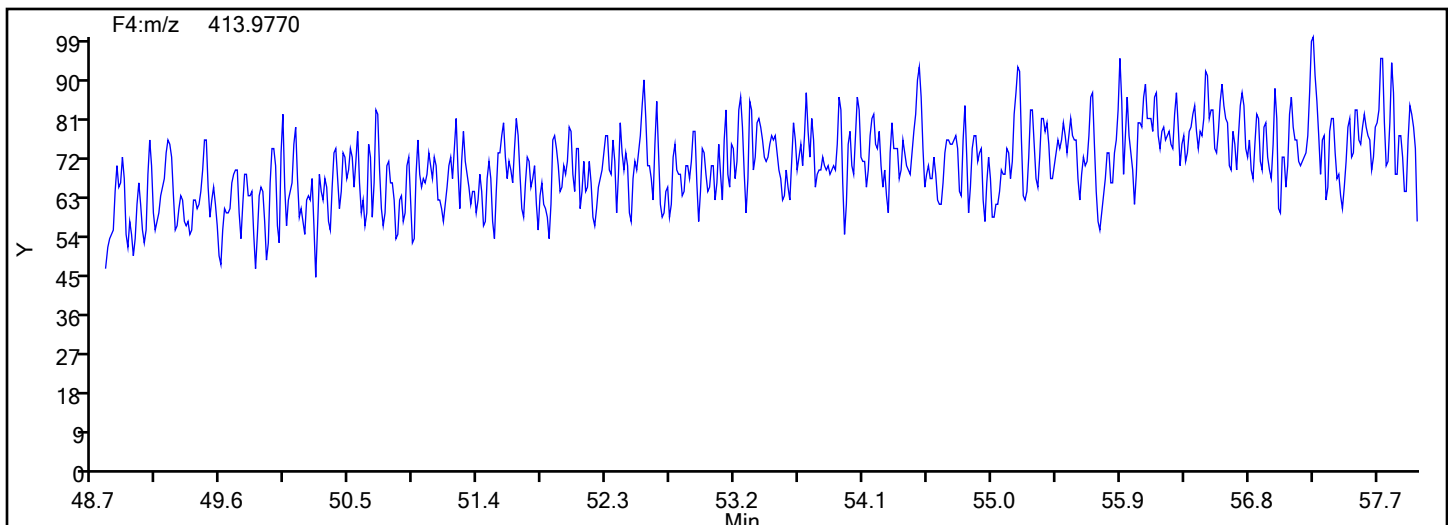
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

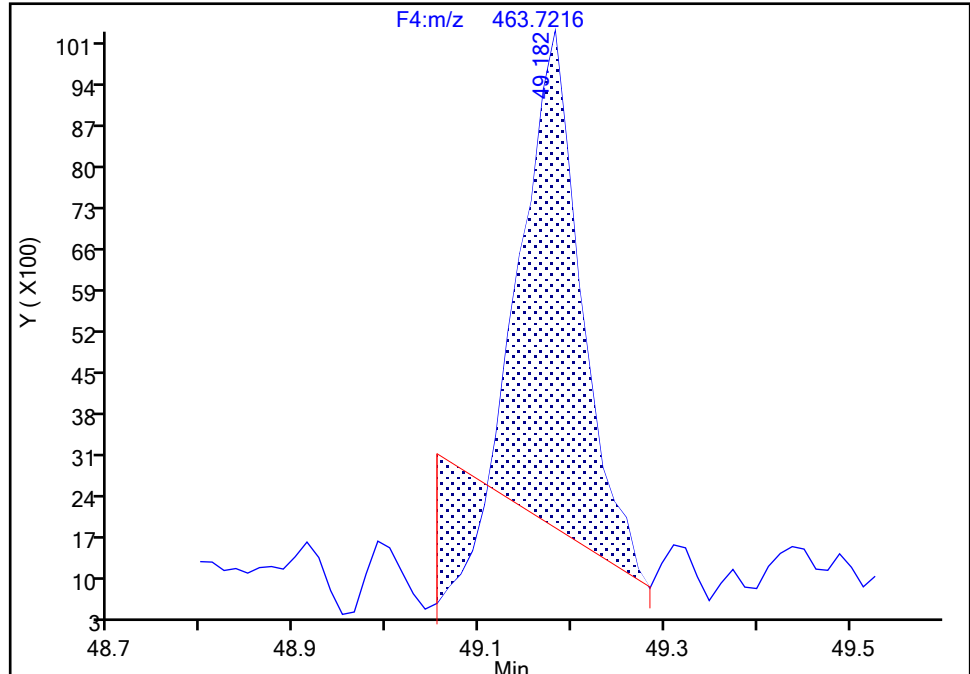
Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

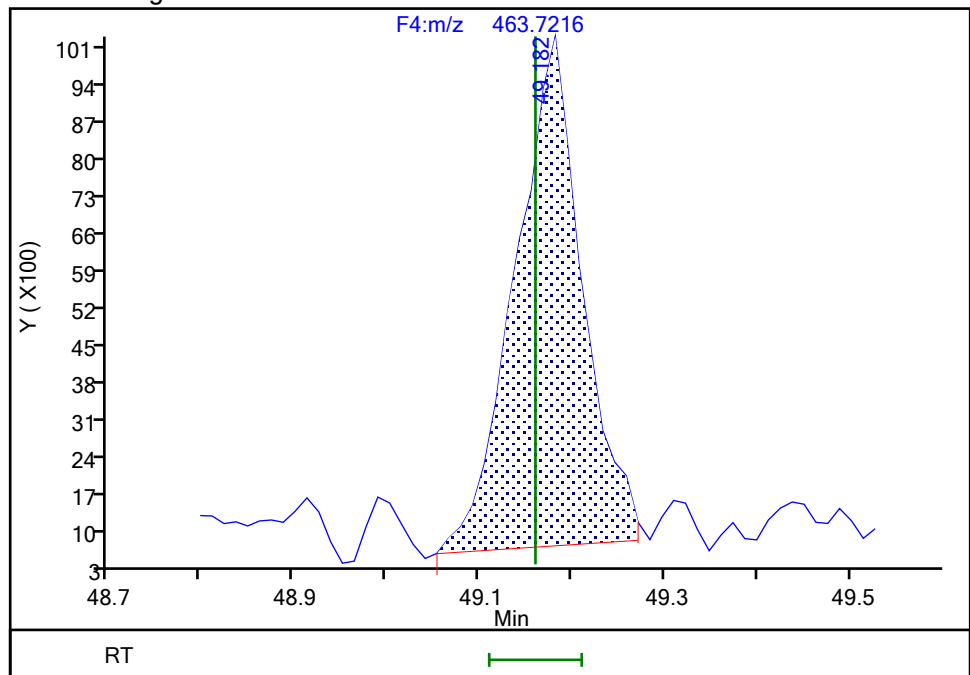
RT: 49.18
Area: 30689
Amount: 0.856155
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 47975
Amount: 1.036303
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

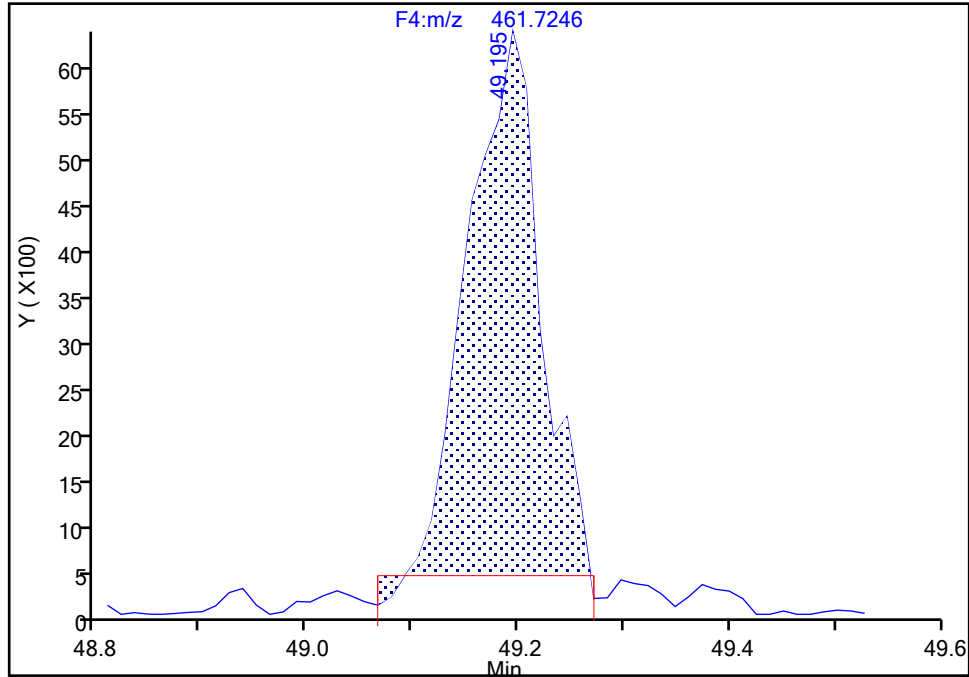
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

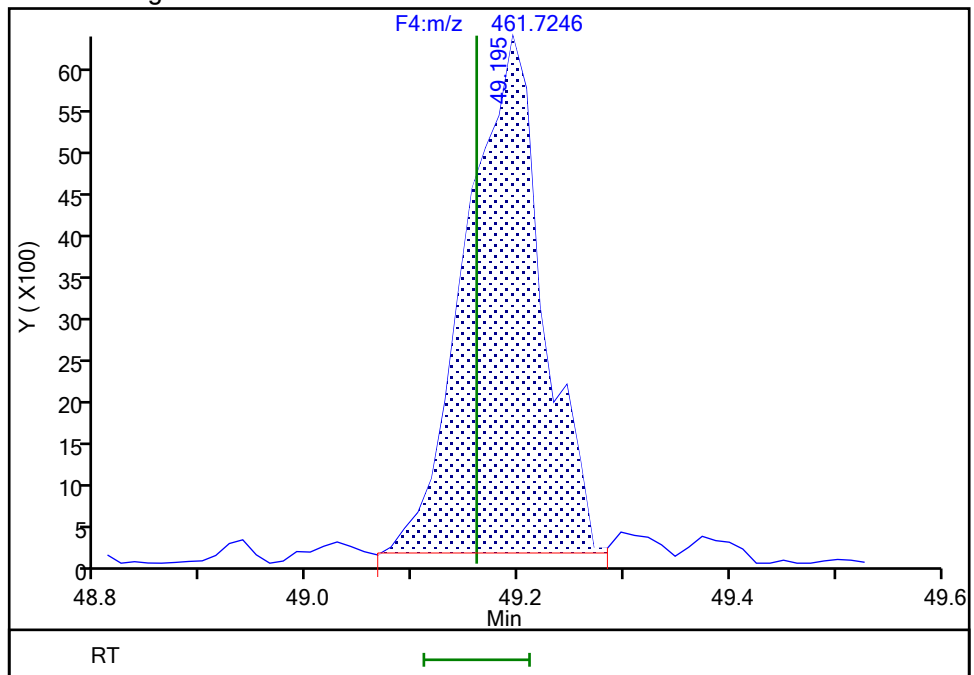
RT: 49.19
Area: 27820
Amount: 0.856155
Amount Units: pg/ul

Processing Integration Results



RT: 49.19
Area: 31684
Amount: 1.036303
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1936 of 3050

BASFWHC-McIntosh-009937

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

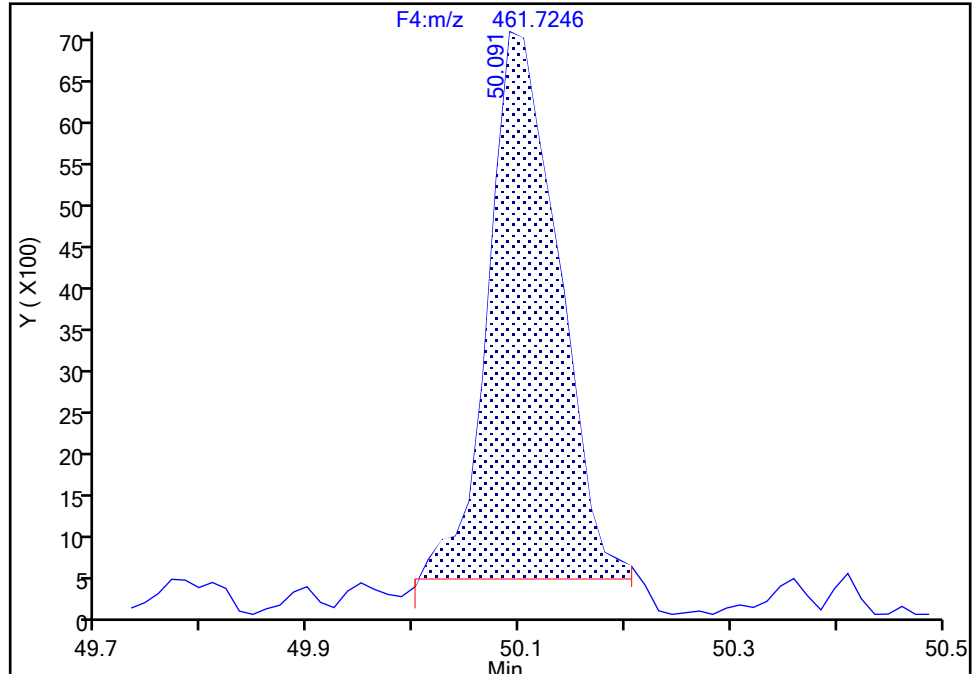
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 1

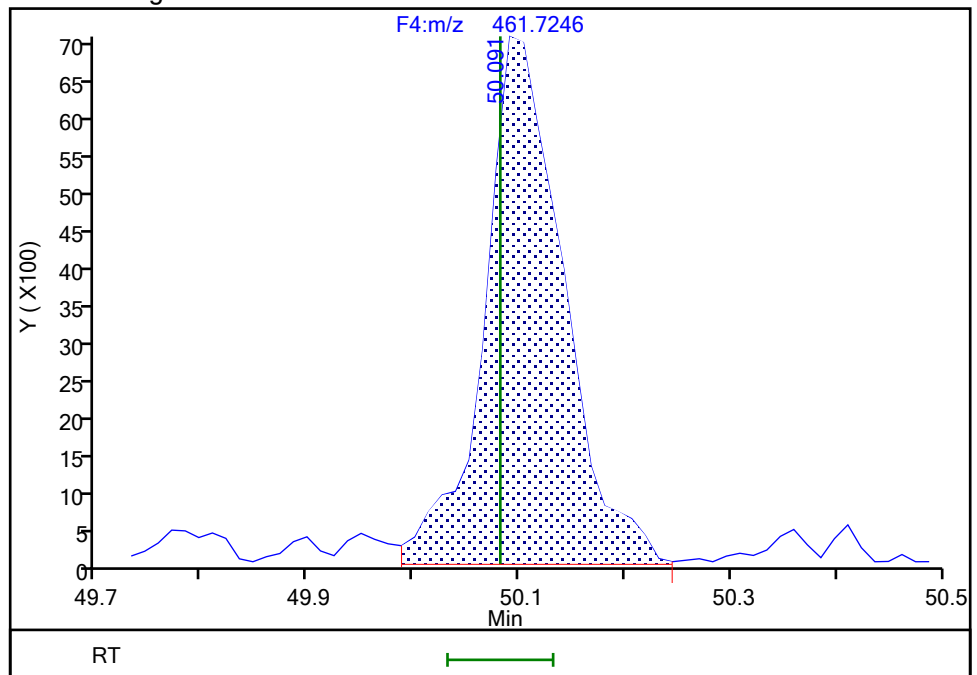
RT: 50.09
Area: 30187
Amount: 0.767801
Amount Units: pg/ul

Processing Integration Results



RT: 50.09
Area: 36477
Amount: 0.994864
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

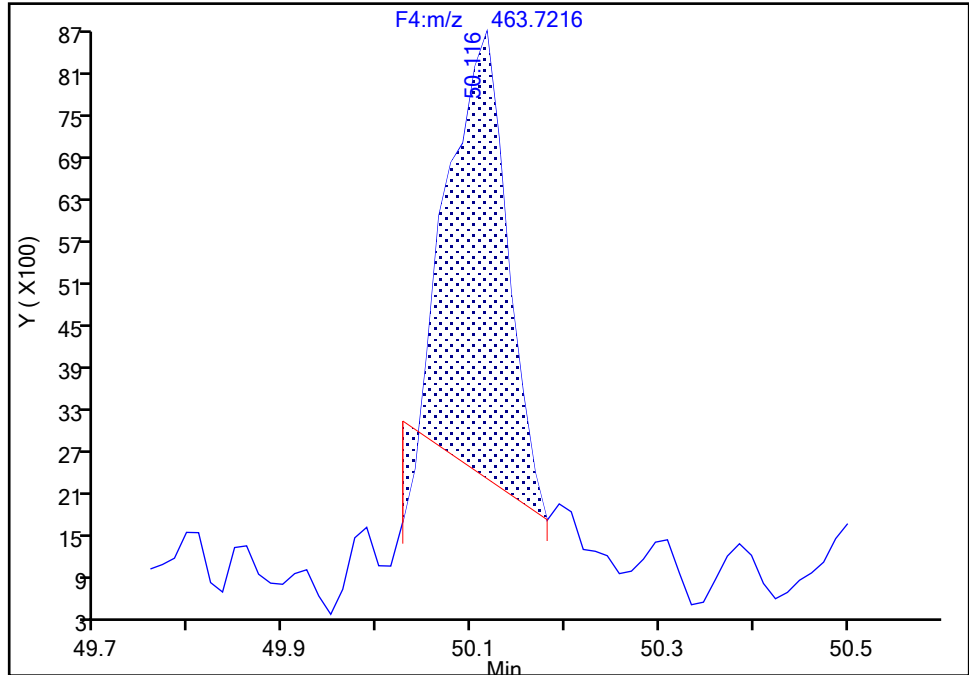
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

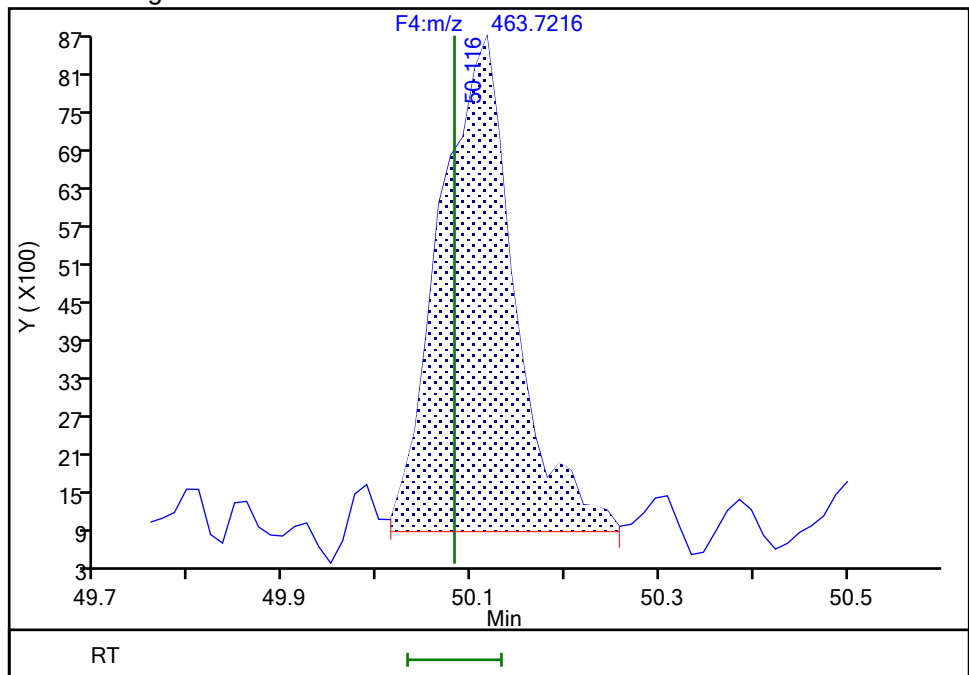
RT: 50.12
Area: 26115
Amount: 0.767801
Amount Units: pg/ul

Processing Integration Results



RT: 50.12
Area: 43355
Amount: 0.994864
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1938 of 3050

BASFWHC-McIntosh-009939

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

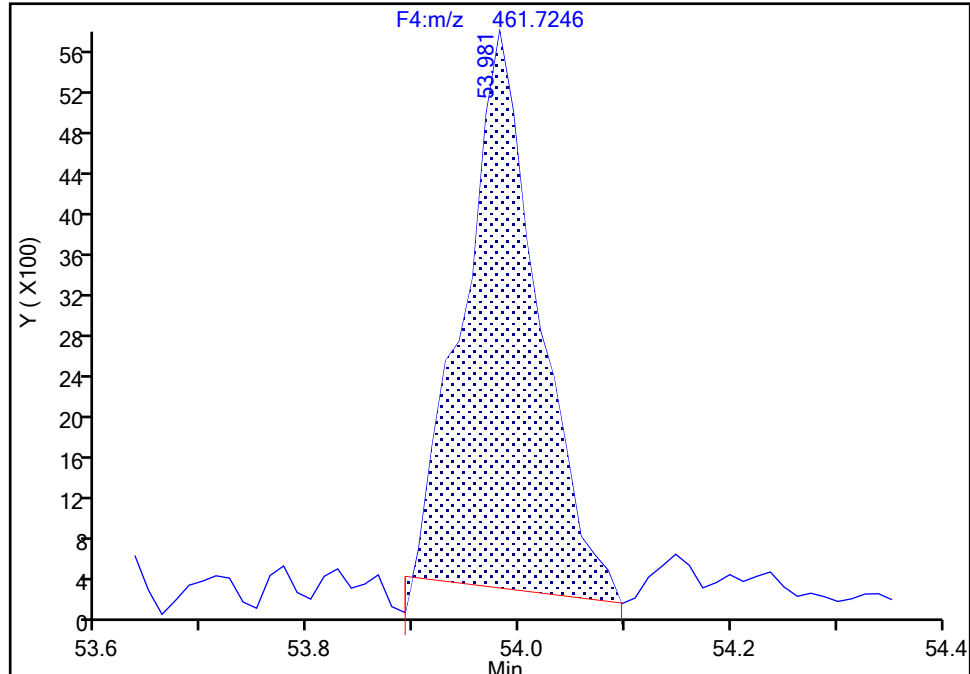
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

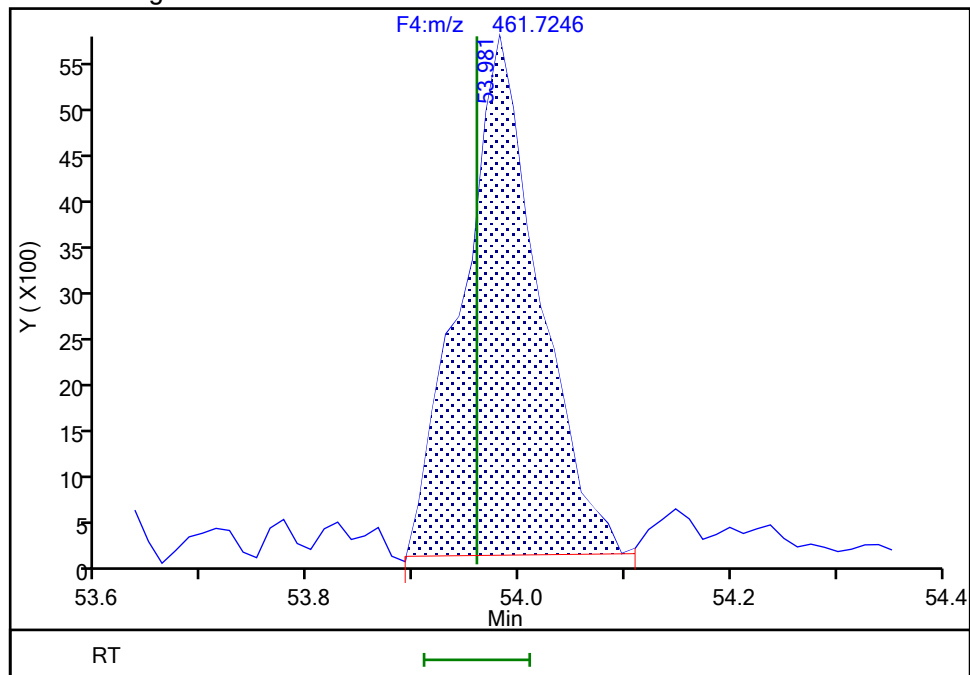
RT: 53.98
Area: 26385
Amount: 0.989782
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 28296
Amount: 1.029702
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

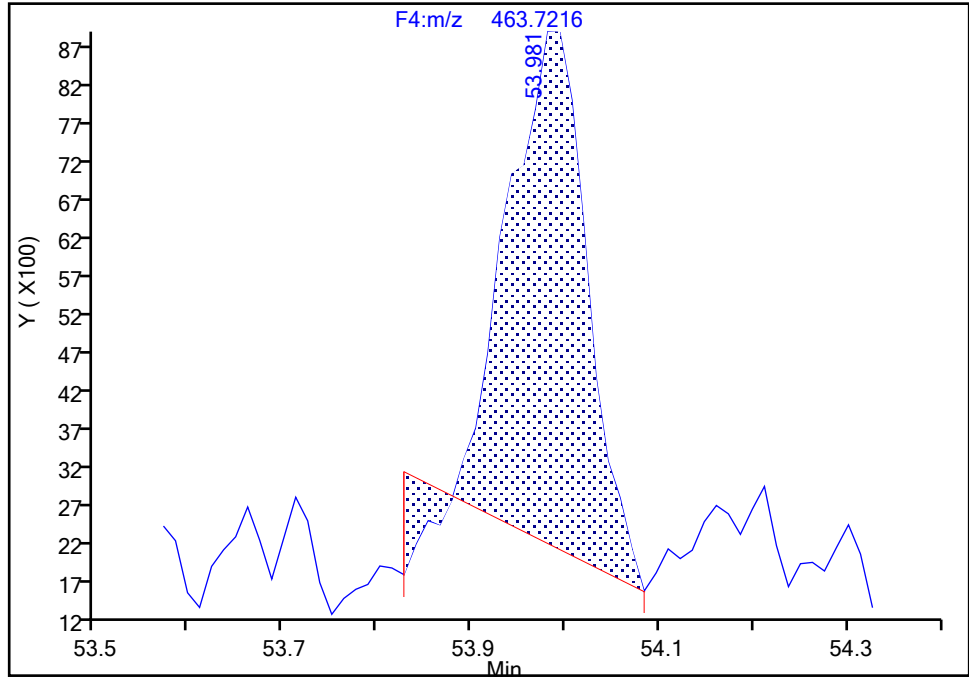
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Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D
Lims ID: IC L2
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

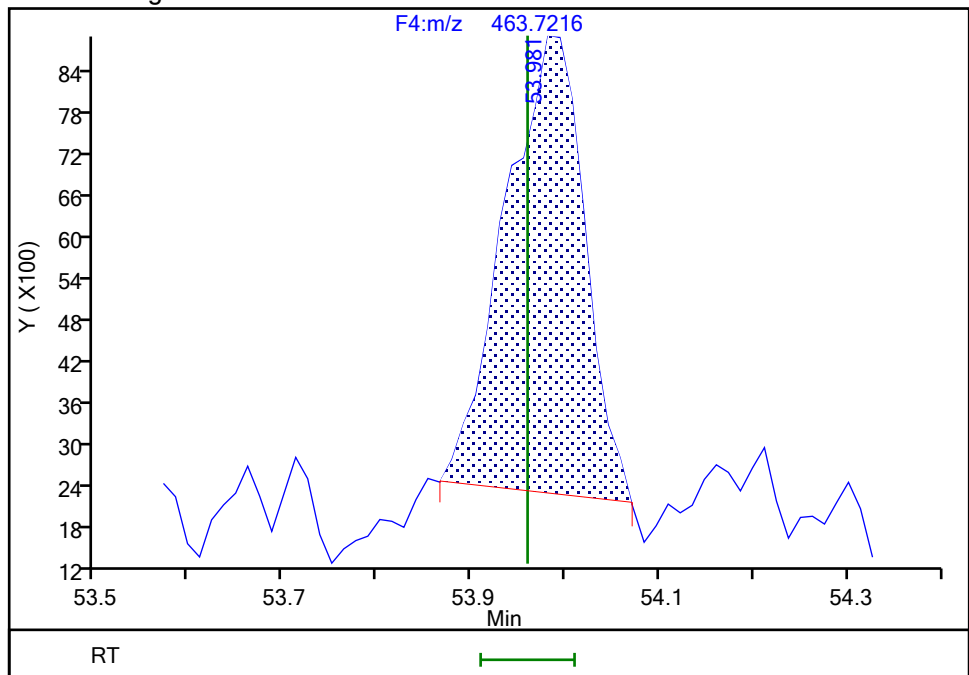
RT: 53.98
Area: 37674
Amount: 0.989782
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 39161
Amount: 1.029702
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1940 of 3050

BASFWC-McIntosh-009941

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

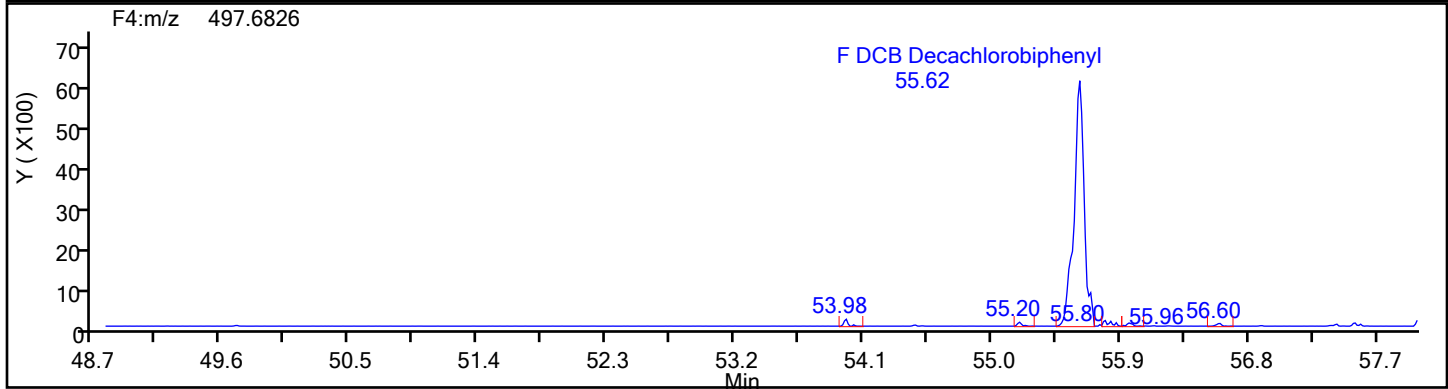
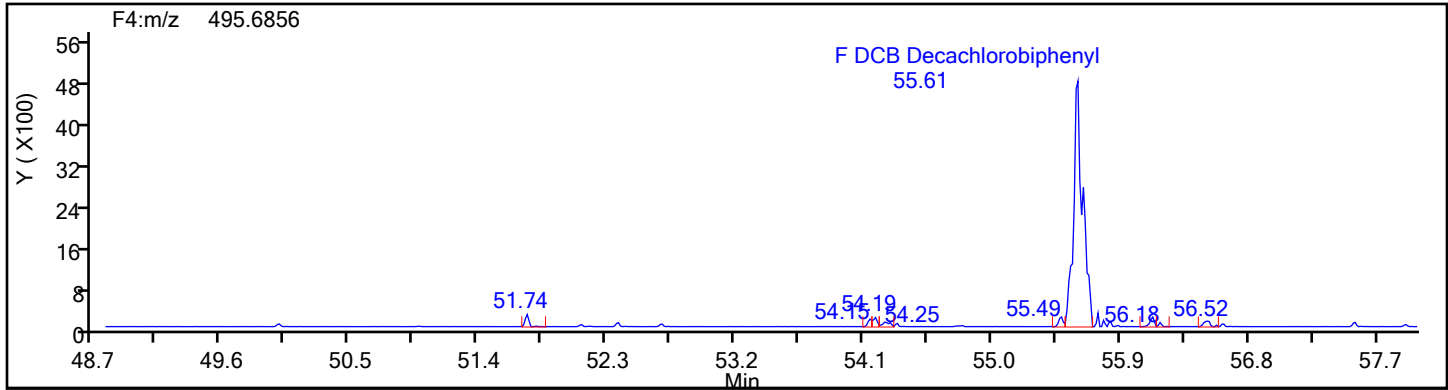
Worklist#: 87130

Sample Line#: 2

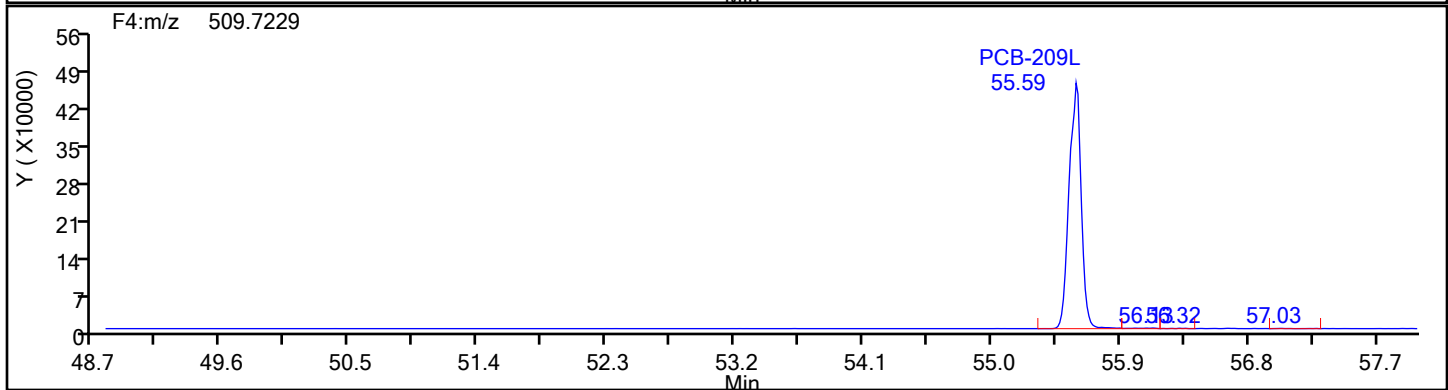
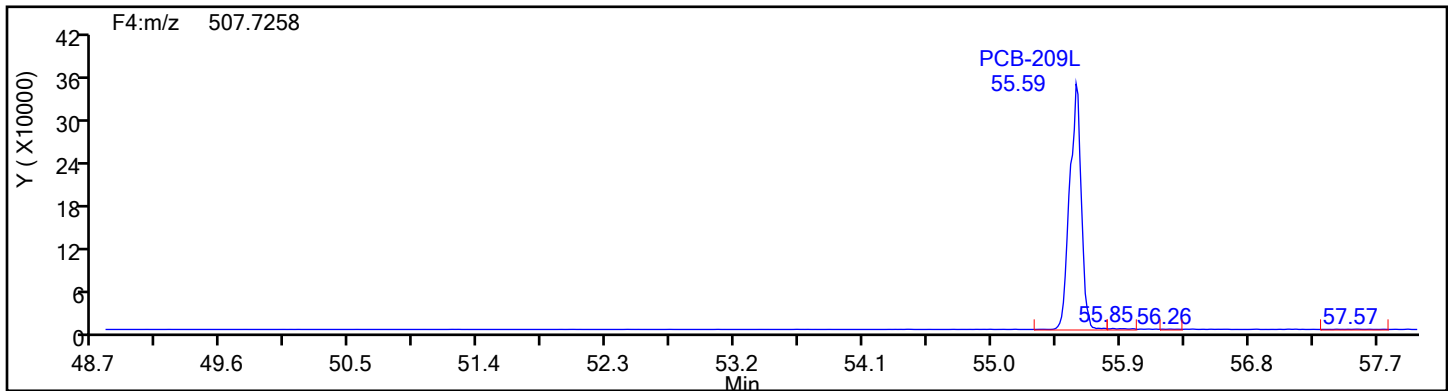
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

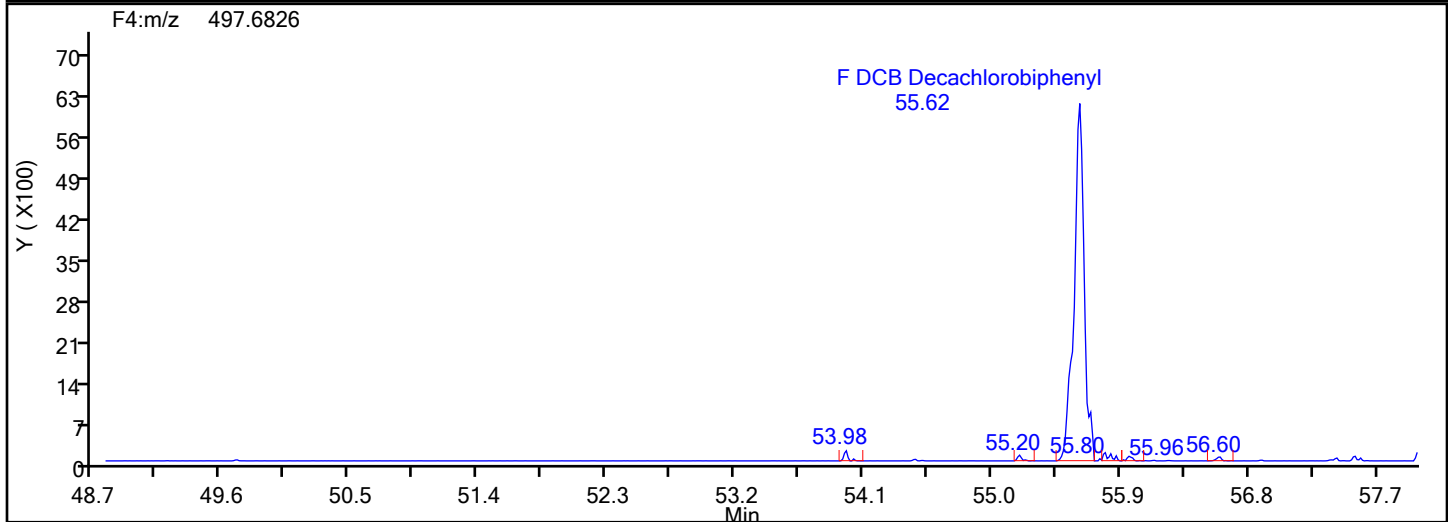
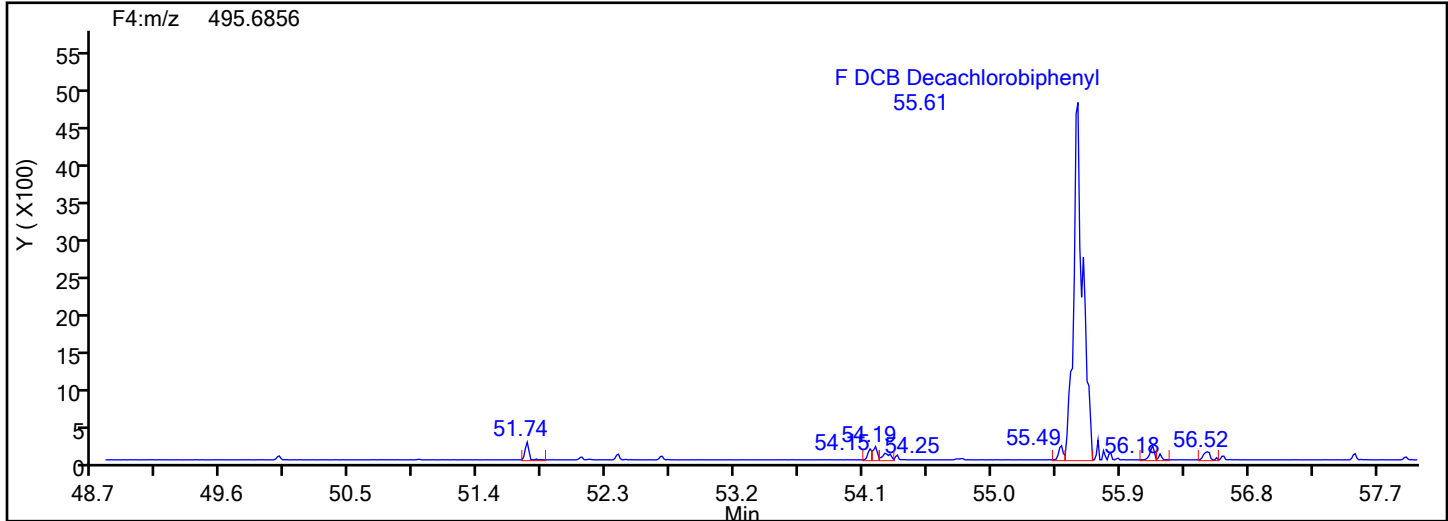
Worklist#: 87130

Sample Line#: 2

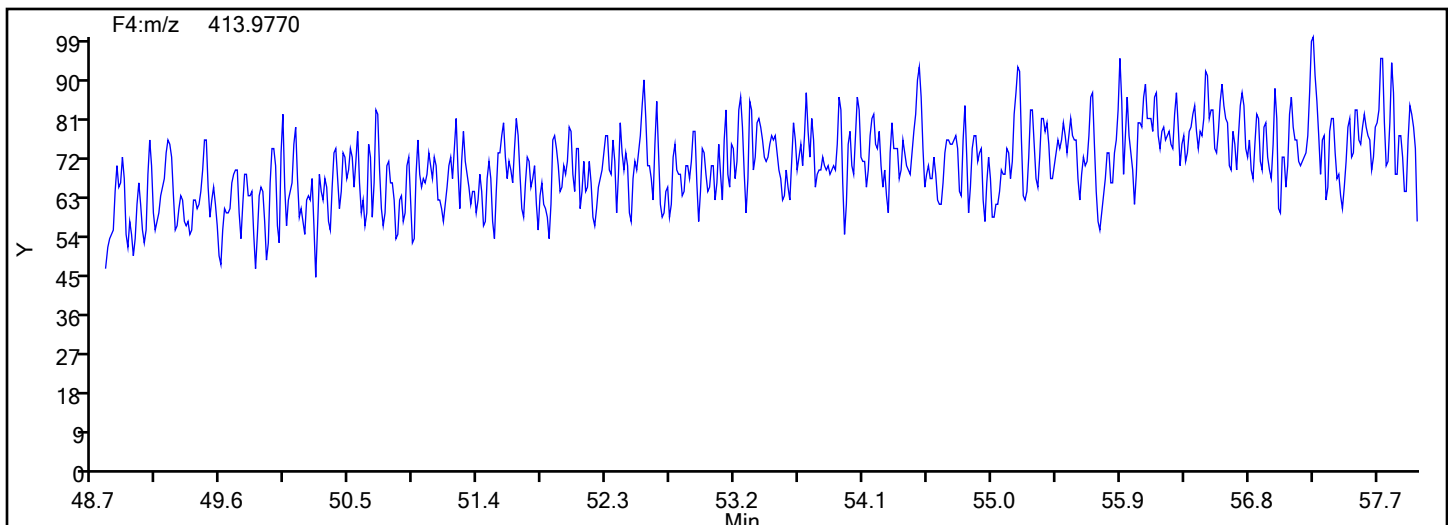
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-003
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					14.8	14.8	0.0308	0.0308		
D PCB-1L	11:37	13253788	3.15	1.6108	98.6	98.6	0.2469	0.2469	98.62	
D PCB-3L	13:47	13154993	3.17	1.5891	99.2	99.2	0.2503	0.2503	99.22	
PCB-1	11:38	796059	3.31	1.2191	4.927	4.927	0.0277	0.0277	98.53	
PCB-2	13:37	768397	3.07	1.1805	4.929	4.929	0.0313	0.0313	98.59	
PCB-3	13:47	799957	3.33	1.2206	4.982	4.982	0.0334	0.0334	99.64	
S Total Dichlorobiphenyls					59.4	59.4	0.0133	0.0133		
D PCB-4L	14:02	5279032	1.61	0.6475	97.7	97.7	0.1199	0.1199	97.71	
* PCB-9L	16:00	8343115	1.62		100.0	100.0				
\$ PCB-8L	16:50	467355	1.69	1.2066	5.500	5.500	0.0832	0.0832	110	M
D PCB-15L	19:54	8806182	1.61	1.0789	97.8	97.8	0.0720	0.0720	97.83	
PCB-4	14:03	337353	1.62	1.2818	4.985	4.985	0.0161	0.0161	99.71	
PCB-10	14:13	471835	1.69	1.3149	5.095	5.095	0.0138	0.0138	102	
PCB-9	16:01	514126	1.63	1.4224	5.132	5.132	0.0128	0.0128	103	
PCB-7	16:11	476841	1.56	1.4134	4.790	4.790	0.0129	0.0129	95.81	
PCB-6	16:25	517825	1.65	1.5421	4.768	4.768	0.0118	0.0118	95.36	
PCB-5	16:43	457479	1.55	1.3395	4.850	4.850	0.0136	0.0136	96.99	
PCB-8	16:51	552662	1.61	1.5889	4.939	4.939	0.0115	0.0115	98.78	
PCB-14	18:28	492912	1.57	1.4025	4.990	4.990	0.0130	0.0130	99.81	
PCB-11	19:19	452818	1.62	1.2951	4.965	4.965	0.0141	0.0141	99.30	
PCB-12	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-13 (C12)	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-15	19:56	552286	1.63	1.2903	4.861	4.861	0.0126	0.0126	97.21	
S Total Trichlorobiphenyls					117.8	117.8	0.0773	0.0773		
D PCB-19L	17:08	3389482	1.07	0.6285	102.1	102.1	0.4214	0.4214	102	
* PCB-32L	20:24	5282294	1.08		100.0	100.0				
* PCB-31L	22:39	15275204	1.06		100.0	100.0				
\$ PCB-28L	22:56	930321	1.03	1.0494	5.804	5.804	0.0746	0.0746	116	
D PCB-37L	26:56	13114910	1.07	0.8749	98.1	98.1	0.0895	0.0895	98.13	
PCB-19	17:09	215976	1.18	1.2809	4.975	4.975	0.0162	0.0162	99.49	
PCB-18	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-30 (C18)	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-17	19:26	206164	1.06	1.2430	4.893	4.893	0.0167	0.0167	97.87	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	310541	1.15	1.8327	4.999	4.999	0.0113	0.0113	99.98	
PCB-24	19:46	276459	1.10	1.6777	4.862	4.862	0.0124	0.0124	97.24	
PCB-16	19:54	189210	1.05	1.1286	4.946	4.946	0.0184	0.0184	98.93	
PCB-32	20:24	310058	1.07	1.8324	4.992	4.992	0.0113	0.0113	99.84	
PCB-34	21:40	741948	1.03	1.1277	5.016	5.016	0.1123	0.1123	100	
PCB-23	21:49	710024	1.04	1.0813	5.007	5.007	0.1172	0.1172	100	
PCB-26	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-29 (C26)	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-25	22:22	798213	1.09	1.2728	4.782	4.782	0.0995	0.0995	95.64	
PCB-31	22:40	744974	1.06	1.1532	4.926	4.926	0.1099	0.1099	98.51	
PCB-20	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-28 (C20)	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-21	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-33 (C21)	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-22	23:35	739669	1.04	1.1932	4.727	4.727	0.1062	0.1062	94.53	
PCB-36	25:10	731454	1.06	1.1071	5.038	5.038	0.1144	0.1144	101	
PCB-39	25:31	760165	1.05	1.1581	5.005	5.005	0.1094	0.1094	100	
PCB-38	26:06	680342	1.03	1.0843	4.784	4.784	0.1168	0.1168	95.68	
PCB-35	26:33	721094	1.00	1.1297	4.867	4.867	0.1121	0.1121	97.34	
PCB-37	26:57	723492	0.98	1.1435	4.824	4.824	0.1108	0.1108	96.48	
S Total Tetrachlorobiphenyls					203.4	203.4	0.1436	0.1436		
D PCB-54L	20:12	2803421	0.81	0.5562	95.4	95.4	0.0457	0.0457	95.42	M
* PCB-52L	24:47	7684810	0.79		100.0	100.0				
\$ PCB-79L	32:42	504032	0.86	1.0018	5.174	5.174	0.1659	0.1659	103	
D PCB-81L	33:41	9411321	0.80	1.2470	98.2	98.2	0.1444	0.1444	98.21	
D PCB-77L	34:15	10036639	0.82	1.3212	98.9	98.9	0.1363	0.1363	98.85	
PCB-54	20:14	187801	0.85	1.2733	5.261	5.261	0.0132	0.0132	105	
PCB-50	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-53 (C50)	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-45	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-51 (C45)	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-46	23:23	340774	0.81	0.7101	4.935	4.935	0.2227	0.2227	98.71	
PCB-52	24:48	439829	0.77	0.9194	4.920	4.920	0.1720	0.1720	98.39	
PCB-43	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-73 (C43)	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-49	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-69 (C49)	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-48	25:33	401794	0.84	0.8399	4.920	4.920	0.1883	0.1883	98.39	
PCB-44	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-47 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-65 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-59	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-62 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-75 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-42	26:19	398654	0.73	0.8097	5.064	5.064	0.1954	0.1954	101	
PCB-40	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-41 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-71 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-64	27:02	549661	0.77	1.1776	4.800	4.800	0.1343	0.1343	96.01	
PCB-72	27:52	528848	0.86	1.0943	4.970	4.970	0.1445	0.1445	99.40	
PCB-68	28:09	618865	0.81	1.2533	5.078	5.078	0.1262	0.1262	102	
PCB-57	28:35	515271	0.79	1.0818	4.898	4.898	0.1462	0.1462	97.96	
PCB-58	28:49	638910	0.75	1.3253	4.958	4.958	0.1193	0.1193	99.15	
PCB-67	28:58	662955	0.81	1.4230	4.791	4.791	0.1111	0.1111	95.82	
PCB-63	29:14	544766	0.77	1.1240	4.984	4.984	0.1407	0.1407	99.69	
PCB-61	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-70 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-74 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-76 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-66	29:54	600993	0.79	1.2583	4.912	4.912	0.1257	0.1257	98.24	
PCB-55	30:04	630084	0.81	1.3236	4.895	4.895	0.1195	0.1195	97.91	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:34	577077	0.81	1.2334	4.812	4.812	0.1282	0.1282	96.23	M
PCB-60	30:47	510799	0.81	1.1230	4.677	4.677	0.1408	0.1408	93.55	
PCB-80	31:12	618593	0.84	1.3243	4.804	4.804	0.1194	0.1194	96.08	
PCB-79	32:43	655831	0.79	1.4368	4.694	4.694	0.1101	0.1101	93.88	
PCB-78	33:16	551876	0.77	1.1618	4.885	4.885	0.1361	0.1361	97.70	M
PCB-81	33:42	499582	0.80	1.0802	4.914	4.914	0.1499	0.1499	98.28	M
PCB-77	34:16	520129	0.84	1.0836	4.783	4.783	0.1426	0.1426	95.65	
S Total Pentachlorobiphenyls					222.5	222.5	0.0403	0.0403		
D PCB-104L	25:43	6307301	1.60	1.2161	103.6	103.6	0.0256	0.0256	104	
\$ PCB-95L	28:41	234474	1.70	0.7218	5.150	5.150	0.0318	0.0318	103	
* PCB-101L	31:37	5008775	1.60		100.0	100.0				
\$ PCB-111L	34:18	394315	1.61	1.3699	5.747	5.747	0.0228	0.0228	115	
D PCB-123L	36:15	9321962	1.59	0.9731	102.1	102.1	1.221	1.221	102	
D PCB-118L	36:35	9948185	1.58	1.0102	104.9	104.9	1.176	1.176	105	
D PCB-114L	37:07	9387618	1.61	0.9949	100.5	100.5	1.194	1.194	101	
D PCB-105L	37:45	9087875	1.60	0.9514	101.8	101.8	1.249	1.249	102	
* PCB-127L	39:14	9385497	1.60		100.0	100.0				
D PCB-126L	40:51	8945635	1.60	0.9439	101.0	101.0	1.259	1.259	101	
PCB-104	25:44	306050	1.57	1.0087	4.810	4.810	0.002672	0.002672	96.21	
PCB-96	26:06	338671	1.66	1.0940	4.908	4.908	0.002463	0.002463	98.16	
PCB-103	28:03	272723	1.63	0.8741	4.947	4.947	0.003083	0.003083	98.93	
PCB-94	28:15	243354	1.52	0.7640	5.050	5.050	0.003527	0.003527	101	
PCB-95	28:42	247318	1.63	0.8033	4.881	4.881	0.003355	0.003355	97.63	
PCB-93	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-100 (C93)	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-98	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-102 (C98)	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-88	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-91 (C88)	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-84	29:47	225737	1.61	0.7299	4.903	4.903	0.003692	0.003692	98.06	
PCB-89	30:17	245536	1.57	0.7798	4.992	4.992	0.003456	0.003456	99.84	
PCB-121	30:41	406765	1.67	1.2964	4.975	4.975	0.002079	0.002079	99.49	
PCB-92	31:03	260863	1.63	0.8546	4.840	4.840	0.003154	0.003154	96.80	
PCB-90	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-101 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-113 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-83	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-99 (C83)	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-112	32:20	437482	1.71	1.4111	4.915	4.915	0.001910	0.001910	98.31	
PCB-86	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-87 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-97 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-109 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-119 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-125 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-85	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-116 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-117 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-110	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-115 (C110)	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-82	33:56	257633	1.50	0.8303	4.919	4.919	0.003246	0.003246	98.39	
PCB-111	34:20	366927	1.71	1.2125	4.798	4.798	0.002223	0.002223	95.96	
PCB-120	34:48	446498	1.64	1.4762	4.795	4.795	0.001826	0.001826	95.91	
PCB-108	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-124 (C108)	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-107	36:11	576281	1.52	1.2121	5.091	5.091	0.1092	0.1092	102	
PCB-123	36:17	444649	1.54	1.0722	4.449	4.449	0.1220	0.1220	88.97	
PCB-106	36:24	501472	1.50	1.0839	4.954	4.954	0.1221	0.1221	99.09	
PCB-118	36:37	579609	1.57	1.2055	4.833	4.833	0.1034	0.1034	96.66	
PCB-122	36:57	416752	1.47	0.9567	4.665	4.665	0.1383	0.1383	93.30	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	496695	1.43	1.0842	4.880	4.880	0.1191	0.1191	97.61	
PCB-105	37:47	513401	1.56	1.1879	4.756	4.756	0.1159	0.1159	95.11	M
PCB-127	39:15	505934	1.52	1.1394	4.755	4.755	0.1161	0.1161	95.10	M
PCB-126	40:51	483239	1.56	1.0976	4.922	4.922	0.1281	0.1281	98.43	
S Total Hexachlorobiphenyls					206.9	206.9	0.0442	0.0442		
D PCB-155L	31:23	5708638	1.27	1.0851	105.0	105.0	0.0356	0.0356	105	
\$ PCB-153L	38:28	444756	1.28	0.9169	6.065	6.065	0.7601	0.7601	121	
* PCB-138L	39:43	6431603	1.27		100.0	100.0				
\$ PCB-159L	41:57	4130110	1.30	0.5118	99.0	99.0	1.122	1.122	99.00	
D PCB-167L	42:43	8150383	1.29	1.2572	100.8	100.8	0.5795	0.5795	101	
D PCB-156L	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-157L (C156L)	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-169L	47:06	7844285	1.29	1.2439	98.1	98.1	0.5857	0.5857	98.05	
PCB-155	31:25	269852	1.19	0.9444	5.005	5.005	0.005858	0.005858	100	
PCB-152	31:37	280445	1.25	0.9895	4.965	4.965	0.005591	0.005591	99.29	
PCB-150	31:47	292889	1.19	1.0132	5.064	5.064	0.005460	0.005460	101	
PCB-136	32:09	270798	1.37	1.0116	4.689	4.689	0.005469	0.005469	93.79	
PCB-145	32:26	275033	1.36	0.9685	4.975	4.975	0.005712	0.005712	99.49	
PCB-148	33:58	215061	1.37	0.7603	4.955	4.955	0.007276	0.007276	99.10	
PCB-135	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-151 (C135)	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-154	34:48	228222	1.32	0.8129	4.918	4.918	0.006805	0.006805	98.36	
PCB-144	35:06	217725	1.29	0.7852	4.857	4.857	0.007045	0.007045	97.14	
PCB-147	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-149 (C147)	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-134	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-143 (C134)	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-139	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-140 (C139)	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-131	36:15	289665	1.37	0.7503	4.827	4.827	0.0745	0.0745	96.55	
PCB-142	36:24	301166	1.15	0.7507	5.016	5.016	0.0744	0.0744	100	
PCB-132	36:45	300578	1.28	0.7489	5.018	5.018	0.0746	0.0746	100	
PCB-133	37:14	328133	1.24	0.8096	5.068	5.068	0.0690	0.0690	101	
PCB-165	37:37	408419	1.29	1.0247	4.984	4.984	0.0545	0.0545	99.67	
PCB-146	37:52	378659	1.23	0.9637	4.913	4.913	0.0580	0.0580	98.27	
PCB-161	38:01	438810	1.27	1.1288	4.861	4.861	0.0495	0.0495	97.22	
PCB-153	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-168 (C153)	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-141	38:41	338462	1.30	0.8755	4.834	4.834	0.0638	0.0638	96.68	
PCB-130	39:06	279233	1.33	0.7051	4.952	4.952	0.0792	0.0792	99.04	
PCB-137	39:18	318450	1.27	0.7767	5.127	5.127	0.0719	0.0719	103	
PCB-164	39:26	400805	1.29	1.0382	4.827	4.827	0.0538	0.0538	96.54	
PCB-129	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-138 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-160 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-163 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-158	40:07	509962	1.21	1.3110	4.864	4.864	0.0426	0.0426	97.28	
PCB-128	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-166 (C128)	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-159	41:59	558064	1.29	1.3856	5.036	5.036	0.0403	0.0403	101	
PCB-162	42:16	513669	1.22	1.2571	5.109	5.109	0.0444	0.0444	102	
PCB-167	42:44	464967	1.26	1.1159	5.112	5.112	0.0413	0.0413	102	
PCB-156	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-157 (C156)	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-169	47:07	452938	1.19	1.1628	4.966	4.966	0.0437	0.0437	99.31	
S Total Heptachlorobiphenyls					116.4	116.4	0.002706	0.002706		
D PCB-188L	37:07	6664037	1.07	1.3133	101.1	101.1	0.0332	0.0332	101	
\$ PCB-178L	40:10	290779	1.11	1.0313	5.616	5.616	0.0422	0.0422	112	
* PCB-180L	45:16	5019998	1.05		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:31	4357834	1.06	0.8362	103.8	103.8	0.0521	0.0521	104	
D PCB-189L	49:38	10235768	1.06	1.4414	99.1	99.1	0.5611	0.5611	99.10	
PCB-188	37:08	379875	1.15	1.1350	5.023	5.023	0.000344	0.000344	100	
PCB-179	37:28	381743	1.13	1.4276	4.852	4.852	0.000335	0.000335	97.05	
PCB-184	38:00	370448	1.07	1.3672	4.917	4.917	0.000350	0.000350	98.33	
PCB-176	38:22	331851	1.04	1.2331	4.884	4.884	0.000388	0.000388	97.67	
PCB-186	38:48	394382	1.02	1.4737	4.856	4.856	0.000324	0.000324	97.12	
PCB-178	40:11	246629	0.99	0.8946	5.002	5.002	0.000534	0.000534	100	
PCB-175	40:49	246187	1.15	0.9524	4.690	4.690	0.000502	0.000502	93.81	
PCB-187	41:06	296377	1.01	1.1018	4.881	4.881	0.000434	0.000434	97.62	
PCB-182	41:18	263009	1.09	0.9247	5.161	5.161	0.000517	0.000517	103	
PCB-183	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-185 (C183)	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-174	41:57	258926	1.06	0.9642	4.873	4.873	0.000496	0.000496	97.46	
PCB-177	42:23	265089	1.08	0.9773	4.922	4.922	0.000489	0.000489	98.44	
PCB-181	42:47	243089	1.05	0.9505	4.641	4.641	0.000503	0.000503	92.81	
PCB-171	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-173 (C171)	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-172	44:38	225866	1.17	0.8519	4.811	4.811	0.000561	0.000561	96.22	
PCB-192	44:54	366181	1.04	1.3459	4.937	4.937	0.000355	0.000355	98.74	
PCB-180	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-193 (C180)	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-191	45:39	348406	1.07	1.2891	4.904	4.904	0.000371	0.000371	98.09	
PCB-170	46:32	255223	0.99	1.1865	4.936	4.936	0.000520	0.000520	98.72	
PCB-190	47:03	364710	0.93	1.3322	4.968	4.968	0.000359	0.000359	99.35	M
PCB-189	49:39	493179	1.03	0.9633	5.002	5.002	0.0480	0.0480	100	
S Total Octachlorobiphenyls					59.1	59.1	0.0197	0.0197		
D PCB-202L	42:29	5089577	0.93	0.9818	103.3	103.3	0.0178	0.0178	103	
* PCB-194L	51:44	7166011	0.90		100.0	100.0				
D PCB-205L	52:13	8416261	0.91	1.1786	99.7	99.7	0.0711	0.0711	99.65	
PCB-202	42:31	264468	0.89	1.0359	5.016	5.016	0.004491	0.004491	100	
PCB-201	43:25	242194	0.97	0.9754	4.879	4.879	0.004770	0.004770	97.58	
PCB-204	44:06	259683	0.88	1.0485	4.866	4.866	0.004437	0.004437	97.32	
PCB-197	44:21	278144	0.86	1.1458	4.770	4.770	0.004060	0.004060	95.39	
PCB-200	44:26	264690	0.94	1.0072	5.164	5.164	0.004619	0.004619	103	
PCB-198	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-199 (C198)	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-196	47:54	198979	0.93	0.7806	5.008	5.008	0.005959	0.005959	100	
PCB-203	48:05	235807	0.96	0.9292	4.986	4.986	0.005007	0.005007	99.72	
PCB-195	49:25	348250	0.94	0.8263	5.008	5.008	0.0683	0.0683	100	
PCB-194	51:46	394237	0.95	0.9735	4.812	4.812	0.0580	0.0580	96.23	
PCB-205	52:13	448246	0.92	1.0878	4.896	4.896	0.0519	0.0519	97.93	
S Total Nonachlorobiphenyls					14.7	14.7	0.1588	0.1588		
D PCB-208L	49:10	6859651	0.81	0.9576	100.0	100.0	0.1907	0.1907	99.96	
D PCB-206L	53:58	5024711	0.81	0.6947	100.9	100.9	0.2629	0.2629	101	
PCB-208	49:11	399575	0.79	1.1374	5.121	5.121	0.1522	0.1522	102	M
PCB-207	50:07	399296	0.78	1.3756	4.885	4.885	0.1458	0.1458	97.70	M
PCB-206	53:59	317426	0.77	1.3346	4.734	4.734	0.1785	0.1785	94.67	M
D PCB-209L	55:35	4889751	0.71	0.6669	102.3	102.3	0.0640	0.0640	102	
DCB Decachlorobiphenyl	55:37	273346	0.72	1.1004	5.080	5.080	0.0198	0.0198	102	
S Polychlorinated biphenyls, Total					1005.3	1005.3	0.0577	0.0577		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61L21668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-003
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:37	11:36	1	0.726	10057841	4100912	2713	6782	1512		
202.0766	11:37	11:36	1	0.726	3195947	1293770	1130	2825	1145	3.15(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	1	0.861	9998734	3401591	2713	6782	1254		
202.0766	13:47	13:46	1	0.861	3156259	1070179	1130	2825	947	3.17(2.66-3.60)	
PCB-1											
188.0393	11:38	11:37	1	1.001	611259	245939	539	1347	456		
190.0363	11:38	11:37	1	1.001	184800	73986	190	475	389	3.31(2.66-3.60)	
PCB-2											
188.0393	13:37	13:36	1	0.989	579381	190781	539	1347	354		
190.0363	13:37	13:36	1	0.989	189016	62957	190	475	331	3.07(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	1	1.001	615081	211731	539	1347	393		
190.0363	13:47	13:47	1	1.001	184876	61561	190	475	324	3.33(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3257949	1005892	607	1517	1657		
236.0376	14:02	14:02	0	0.877	2021083	640518	143	357	4479	1.61(1.33-1.79)	
PCB-9L											
234.0406	16:00	15:59	1		5160480	1490123	607	1517	2455		
236.0376	16:00	15:59	1		3182635	925024	143	357	6469	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	1	1.201	293687	71243	607	1517	117		M
236.0376	16:50	16:50	1	1.201	173668	43976	143	357	308	1.69(1.33-1.79)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.244	5436766	1281103	607	1517	2111		
236.0376	19:54	19:54	0	1.244	3369416	808128	143	357	5651	1.61(1.33-1.79)	
PCB-4											
222.0003	14:03	14:02	1	1.002	208778	67621	40	100	1691		
223.9974	14:03	14:02	1	1.002	128575	43034	96	240	448	1.62(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	296290	90628	40	100	2266		
223.9974	14:13	14:13	1	1.014	175545	53642	96	240	559	1.69(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	1	1.142	318843	94374	40	100	2359		
223.9974	16:01	16:00	1	1.142	195283	57100	96	240	595	1.63(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.154	290711	80729	40	100	2018		
223.9974	16:10	16:10	0	1.153	186130	49671	96	240	517	1.56(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	322293	89922	40	100	2248		
223.9974	16:25	16:25	0	1.171	195532	56301	96	240	586	1.65(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	278025	76844	40	100	1921		
223.9974	16:43	16:43	0	1.192	179454	50186	96	240	523	1.55(1.33-1.79)	
PCB-8											
222.0003	16:51	16:50	1	1.202	341074	94951	40	100	2374		
223.9974	16:51	16:50	1	1.202	211588	58210	96	240	606	1.61(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	1	0.928	301013	75875	40	100	1897		
223.9974	18:28	18:28	1	0.928	191899	48485	96	240	505	1.57(1.33-1.79)	
PCB-11											
222.0003	19:19	19:18	1	0.970	279665	67757	40	100	1694		
223.9974	19:19	19:18	1	0.970	173153	43370	96	240	452	1.62(1.33-1.79)	
PCB-12											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-15											
222.0003	19:56	19:55	1	1.001	342689	78810	40	100	1970		
223.9974	19:56	19:55	1	1.001	209597	47667	96	240	497	1.63(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.840	1750048	474000	432	1080	1097		
269.9986	17:08	17:08	0	0.840	1639434	450604	931	2327	484	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2738272	653918	432	1080	1514		
269.9986	20:24	20:23	1		2544022	632244	931	2327	679	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:38	1		7854722	1789792	784	1960	2283		
269.9986	22:39	22:38	1		7420482	1696801	308	770	5509	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.012	471644	101939	784	1960	130		
269.9986	22:56	22:56	0	1.012	458677	92446	308	770	300	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:55	1	1.189	6766129	1364501	784	1960	1740		
269.9986	26:56	26:55	1	1.189	6348781	1273491	308	770	4135	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	1	1.002	117119	32603	58	145	562		
257.9584	17:09	17:09	1	1.002	98857	28343	19	47	1492	1.18(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	106250	27677	58	145	477		
257.9584	19:26	19:26	0	1.134	99914	23891	19	47	1257	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	1	1.147	166283	41594	58	145	717		
257.9584	19:39	19:39	1	1.147	144258	35494	19	47	1868	1.15(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	1	1.154	144776	39138	58	145	675		
257.9584	19:46	19:46	1	1.154	131683	31130	19	47	1638	1.10(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.161	97085	23764	58	145	410		
257.9584	19:54	19:53	1	1.161	92125	22662	19	47	1193	1.05(0.88-1.20)	
PCB-32											
255.9613	20:24	20:23	1	1.191	160625	37149	58	145	641		
257.9584	20:24	20:23	1	1.191	149433	35548	19	47	1871	1.07(0.88-1.20)	
PCB-34											
255.9613	21:40	21:39	1	1.265	376163	90530	541	1352	167		
257.9584	21:40	21:39	1	1.265	365785	90351	796	1990	114	1.03(0.88-1.20)	
PCB-23											
255.9613	21:49	21:48	0	1.273	362124	84557	541	1352	156		
257.9584	21:49	21:48	1	1.274	347900	85057	796	1990	107	1.04(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22	22:21	1	0.830	416150	93553	541	1352	173		
257.9584	22:22	22:21	1	0.830	382063	86007	796	1990	108	1.09(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.841	383294	90540	541	1352	167		
257.9584	22:40	22:40	0	0.841	361680	90311	796	1990	113	1.06(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-21											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	377463	80781	541	1352	149		
257.9584	23:36	23:35	1	0.876	362206	78952	796	1990	99	1.04(0.88-1.20)	
PCB-36											
255.9613	25:10	25:09	1	0.934	375707	72079	541	1352	133		
257.9584	25:10	25:09	1	0.934	355747	70158	796	1990	88	1.06(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	389975	83464	541	1352	154		
257.9584	25:30	25:30	0	0.947	370190	76330	796	1990	96	1.05(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	1	0.969	344389	71618	541	1352	132		
257.9584	26:05	26:05	0	0.968	335953	66695	796	1990	84	1.03(0.88-1.20)	
PCB-35											
255.9613	26:33	26:32	1	0.986	360533	69846	541	1352	129		
257.9584	26:33	26:32	1	0.986	360561	70952	796	1990	89	1.00(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.000	358978	71807	541	1352	133		
257.9584	26:57	26:57	0	1.000	364514	71310	796	1990	90	0.98(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1252154	304647	106	265	2874		M
303.9597	20:12	20:12	0	0.816	1551267	378908	25	62	15156	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	0		3402393	752939	510	1275	1476		
303.9597	24:47	24:46	0		4282417	941029	710	1775	1325	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:42	32:41	1	0.971	232703	44353	510	1275	87		
303.9597	32:42	32:41	1	0.971	271329	50496	710	1775	71	0.86(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.359	4182792	794399	510	1275	1558		
303.9597	33:41	33:41	0	1.359	5228529	997351	710	1775	1405	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	0	1.382	4525431	840769	510	1275	1649		
303.9597	34:15	34:14	0	1.382	5511208	1036946	710	1775	1460	0.82(0.65-0.89)	
PCB-54											
289.9224	20:14	20:13	1	1.000	86078	20816	6	15	3469		
291.9194	20:14	20:13	1	1.000	101723	25411	40	100	635	0.85(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-46											
289.9224	23:23	23:22	1	1.157	152416	34946	495	1237	71		
291.9194	23:23	23:22	1	1.157	188358	45442	666	1665	68	0.81(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.227	190732	46476	495	1237	94		
291.9194	24:48	24:47	1	1.227	249097	56499	666	1665	85	0.77(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-48											
289.9224	25:33	25:33	0	1.265	182905	40157	495	1237	81		
291.9194	25:33	25:33	0	1.265	218889	45951	666	1665	69	0.84(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-59											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.303	168333	35093	495	1237	71		
291.9194	26:19	26:18	1	1.303	230321	47146	666	1665	71	0.73(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:01	1	1.338	239365	52530	495	1237	106		
291.9194	27:02	27:01	1	1.338	310296	66835	666	1665	100	0.77(0.65-0.89)	
PCB-72											
289.9224	27:52	27:51	0	0.827	244916	51285	495	1237	104		
291.9194	27:52	27:51	1	0.828	283932	62962	666	1665	95	0.86(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	277293	56694	495	1237	115		
291.9194	28:09	28:09	0	0.836	341572	68869	666	1665	103	0.81(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	227257	45523	495	1237	92		
291.9194	28:35	28:34	1	0.848	288014	60702	666	1665	91	0.79(0.65-0.89)	
PCB-58											
289.9224	28:49	28:48	1	0.856	273402	56373	495	1237	114		
291.9194	28:49	28:48	1	0.856	365508	73610	666	1665	111	0.75(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	296615	57715	495	1237	117		
291.9194	28:58	28:58	0	0.860	366340	69216	666	1665	104	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	1	0.868	237799	45285	495	1237	91		
291.9194	29:14	29:14	1	0.868	306967	64033	666	1665	96	0.77(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-66											
289.9224	29:54	29:53	1	0.888	266136	52281	495	1237	106		
291.9194	29:54	29:53	0	0.888	334857	69429	666	1665	104	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	282242	56944	495	1237	115		
291.9194	30:04	30:03	1	0.892	347842	74275	666	1665	112	0.81(0.65-0.89)	
PCB-56											
289.9224	30:34	30:33	1	0.908	258842	53078	495	1237	107		M
291.9194	30:34	30:33	1	0.908	318235	66404	666	1665	100	0.81(0.65-0.89)	M
PCB-60											
289.9224	30:47	30:46	0	0.914	228596	47611	495	1237	96		
291.9194	30:47	30:46	1	0.914	282203	54459	666	1665	82	0.81(0.65-0.89)	
PCB-80											
289.9224	31:12	31:11	1	0.926	281507	52839	495	1237	107		
291.9194	31:12	31:11	1	0.926	337086	68438	666	1665	103	0.84(0.65-0.89)	
PCB-79											
289.9224	32:43	32:42	1	0.971	289310	52307	495	1237	106		
291.9194	32:43	32:42	1	0.971	366521	66349	666	1665	100	0.79(0.65-0.89)	
PCB-78											
289.9224	33:16	33:15	0	0.987	240561	46623	495	1237	94		M
291.9194	33:16	33:15	1	0.988	311315	58034	666	1665	87	0.77(0.65-0.89)	M
PCB-81											
289.9224	33:42	33:42	0	1.001	221876	44931	495	1237	91		M
291.9194	33:42	33:42	0	1.001	277706	53242	666	1665	80	0.80(0.65-0.89)	M
PCB-77											
289.9224	34:16	34:16	0	1.001	236724	43605	495	1237	88		
291.9194	34:16	34:16	0	1.001	283405	57023	666	1665	86	0.84(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:42	0	0.813	3881748	846069	48	120	17626		
339.9178	25:43	25:42	0	0.813	2425553	526811	78	195	6754	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.115	147567	30011	48	120	625		
339.9178	28:41	28:41	0	1.115	86907	17374	78	195	223	1.70(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3082346	624295	48	120	13006		
339.9178	31:37	31:37	0		1926429	385938	78	195	4948	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:17	1	1.085	242976	48695	48	120	1014		
339.9178	34:18	34:17	1	1.085	151339	30118	78	195	386	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	1	1.147	5721133	1109523	5300	13250	209		
339.9178	36:15	36:15	1	1.147	3600829	698691	3281	8202	213	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:35	36:34	1	1.157	6092251	1157981	5300	13250	218		
339.9178	36:35	36:34	1	1.157	3855934	740169	3281	8202	226	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.174	5794168	1134432	5300	13250	214		
339.9178	37:07	37:06	1	1.174	3593450	696833	3281	8202	212	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	1	1.194	5589374	1048617	5300	13250	198		
339.9178	37:45	37:45	1	1.194	3498501	668548	3281	8202	204	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	1		5780307	1112193	5300	13250	210		
339.9178	39:14	39:14	1		3605190	693455	3281	8202	211	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	5507935	1037098	5300	13250	196		
339.9178	40:51	40:50	1	1.292	3437700	644438	3281	8202	196	1.60(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	186976	43535	7	17	6219		
327.8775	25:45	25:44	1	1.001	119074	25392	8	20	3174	1.57(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	211295	44931	7	17	6419		
327.8775	26:06	26:06	0	1.015	127376	29456	8	20	3682	1.66(1.32-1.78)	
PCB-103											
325.8804	28:03	28:02	1	1.091	169216	36556	7	17	5222		
327.8775	28:02	28:02	0	1.091	103507	22398	8	20	2800	1.63(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.099	146664	28127	7	17	4018		
327.8775	28:17	28:16	1	1.100	96690	20752	8	20	2594	1.52(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.116	153284	31365	7	17	4481		
327.8775	28:43	28:42	1	1.117	94034	19388	8	20	2424	1.63(1.32-1.78)	
PCB-93											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	
PCB-98											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-88											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-91 (C88)											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-84											
325.8804	29:47	29:47	0	1.159	139124	31137	7	17	4448		
327.8775	29:48	29:47	1	1.159	86613	15623	8	20	1953	1.61(1.32-1.78)	
PCB-89											
325.8804	30:17	30:16	1	1.178	150039	30987	7	17	4427		
327.8775	30:17	30:16	1	1.178	95497	19480	8	20	2435	1.57(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	254278	49012	7	17	7002		
327.8775	30:41	30:41	0	1.194	152487	33141	8	20	4143	1.67(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	161862	31924	7	17	4561		
327.8775	31:03	31:03	0	0.857	99001	18723	8	20	2340	1.63(1.32-1.78)	
PCB-90											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-112											
325.8804	32:20	32:20	0	1.258	276124	52961	7	17	7566		
327.8775	32:20	32:20	0	1.258	161358	32769	8	20	4096	1.71(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-85											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-116 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-117 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-110											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-82											
325.8804	33:56	33:55	1	1.320	154740	30208	7	17	4315		
327.8775	33:56	33:55	1	1.320	102893	18521	8	20	2315	1.50(1.32-1.78)	
PCB-111											
325.8804	34:20	34:19	1	1.335	231300	43572	7	17	6225		
327.8775	34:20	34:19	1	1.335	135627	27334	8	20	3417	1.71(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	1	1.353	277232	56635	7	17	8091		
327.8775	34:47	34:47	0	1.353	169266	31899	8	20	3987	1.64(1.32-1.78)	
PCB-108											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	1	1.407	347753	64872	457	1142	142		
327.8775	36:11	36:09	1	1.407	228528	39698	489	1222	81	1.52(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.001	269548	57290	457	1142	125		
327.8775	36:17	36:16	1	1.001	175101	38086	489	1222	78	1.54(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	301102	59410	457	1142	130		
327.8775	36:24	36:23	1	1.004	200370	37243	489	1222	76	1.50(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	354441	65239	457	1142	143		
327.8775	36:37	36:36	1	1.001	225168	40733	489	1222	83	1.57(1.32-1.78)	
PCB-122											
325.8804	36:57	36:56	1	1.010	248046	48486	457	1142	106		
327.8775	36:58	36:56	1	1.010	168706	33212	489	1222	68	1.47(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	292014	54549	457	1142	119		
327.8775	37:08	37:08	1	1.001	204681	36808	489	1222	75	1.43(1.32-1.78)	
PCB-105											
325.8804	37:47	37:46	1	1.001	313087	53355	457	1142	117		M
327.8775	37:47	37:46	1	1.001	200314	35951	489	1222	74	1.56(1.32-1.78)	M
PCB-127											
325.8804	39:15	39:15	1	1.040	305265	60531	457	1142	132		M
327.8775	39:16	39:15	1	1.040	200669	36418	489	1222	74	1.52(1.32-1.78)	M
PCB-126											
325.8804	40:51	40:52	0	1.000	294816	50918	457	1142	111		
327.8775	40:52	40:52	1	1.001	188423	29809	489	1222	61	1.56(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.790	3191945	653123	101	252	6467		
373.8788	31:23	31:23	0	0.790	2516693	521851	55	137	9488	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:28	38:27	1	0.901	249993	46907	3297	8242	14		
373.8788	38:29	38:27	1	0.901	194763	37560	246	615	153	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	1		3594734	673228	3297	8242	204		
373.8788	39:43	39:41	1		2836869	542464	246	615	2205	1.27(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4130110	775457	3297	8242	235		
373.8788	41:57	41:56	1	0.982	3171044	598343	246	615	2432	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.076	4598262	869516	3297	8242	264		
373.8788	42:43	42:42	1	1.076	3552121	672708	246	615	2735	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	4415953	782684	3297	8242	237		
373.8788	47:06	47:05	1	1.186	3428332	614023	246	615	2496	1.29(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	146365	30837	19	47	1623		
361.8385	31:25	31:25	0	1.001	123487	25890	7	17	3699	1.19(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	155611	29885	19	47	1573		
361.8385	31:37	31:36	1	1.007	124834	25329	7	17	3618	1.25(1.05-1.43)	
PCB-150											
359.8415	31:47	31:46	1	1.013	159363	32797	19	47	1726		
361.8385	31:47	31:46	1	1.013	133526	28760	7	17	4109	1.19(1.05-1.43)	
PCB-136											
359.8415	32:09	32:08	1	1.024	156399	31550	19	47	1661		
361.8385	32:08	32:08	0	1.024	114399	22324	7	17	3189	1.37(1.05-1.43)	
PCB-145											
359.8415	32:26	32:25	1	1.033	158361	28358	19	47	1493		
361.8385	32:26	32:25	1	1.033	116672	23514	7	17	3359	1.36(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	124180	24345	19	47	1281		
361.8385	33:57	33:57	0	1.082	90881	18932	7	17	2705	1.37(1.05-1.43)	
PCB-135											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-154											
359.8415	34:48	34:47	0	1.108	129876	24249	19	47	1276		
361.8385	34:48	34:47	1	1.109	98346	19667	7	17	2810	1.32(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	122737	25173	19	47	1325		
361.8385	35:06	35:06	0	1.118	94988	20050	7	17	2864	1.29(1.05-1.43)	
PCB-147											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	167426	32344	121	302	267		
361.8385	36:15	36:15	0	1.155	122239	24629	163	407	151	1.37(1.05-1.43)	
PCB-142											
359.8415	36:24	36:24	0	1.160	160770	32238	121	302	266		
361.8385	36:24	36:24	0	1.160	140396	27366	163	407	168	1.15(1.05-1.43)	
PCB-132											
359.8415	36:45	36:43	1	1.171	168533	30042	121	302	248		
361.8385	36:44	36:43	1	1.170	132045	26582	163	407	163	1.28(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	181369	34481	121	302	285		
361.8385	37:14	37:14	1	1.186	146764	27536	163	407	169	1.24(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	1	0.881	230109	43848	121	302	362		
361.8385	37:37	37:37	1	0.881	178310	35310	163	407	217	1.29(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	208795	44241	121	302	366		
361.8385	37:52	37:52	0	0.887	169864	33969	163	407	208	1.23(1.05-1.43)	
PCB-161											
359.8415	38:01	38:00	1	0.890	245903	49523	121	302	409		
361.8385	38:00	38:00	1	0.890	192907	36042	163	407	221	1.27(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	1	0.906	191260	36313	121	302	300		
361.8385	38:41	38:41	1	0.906	147202	27486	163	407	169	1.30(1.05-1.43)	
PCB-130											
359.8415	39:06	39:05	1	0.915	159580	30854	121	302	255		
361.8385	39:05	39:05	0	0.915	119653	24028	163	407	147	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	1	0.920	178439	33642	121	302	278		
361.8385	39:19	39:18	1	0.921	140011	24900	163	407	153	1.27(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	1	0.923	225567	43573	121	302	360		
361.8385	39:25	39:26	0	0.923	175238	35230	163	407	216	1.29(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	1	0.939	279147	50086	121	302	414		
361.8385	40:08	40:07	1	0.940	230815	41052	163	407	252	1.21(1.05-1.43)	
PCB-128											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-159											
359.8415	41:59	41:58	1	0.983	313916	56405	121	302	466		
361.8385	41:58	41:58	0	0.982	244148	44216	163	407	271	1.29(1.05-1.43)	
PCB-162											
359.8415	42:16	42:15	1	0.990	282117	47612	121	302	393		
361.8385	42:16	42:15	1	0.990	231552	42164	163	407	259	1.22(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	1	1.001	258895	46328	121	302	383		
361.8385	42:44	42:44	1	1.001	206072	36518	163	407	224	1.26(1.05-1.43)	
PCB-156											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-169											
359.8415	47:07	47:06	1	1.000	245688	38852	121	302	321		
361.8385	47:08	47:06	1	1.001	207250	34606	163	407	212	1.19(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3447773	664072	119	297	5580		
407.8398	37:07	37:07	0	0.820	3216264	618371	47	117	13157	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.887	152992	29193	119	297	245		
407.8398	40:11	40:10	1	0.888	137787	24843	47	117	529	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2568451	479811	119	297	4032		
407.8398	45:16	45:15	1		2451547	473161	47	117	10067	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2246991	415071	119	297	3488		
407.8398	46:31	46:30	1	1.028	2110843	394734	47	117	8399	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:38	49:37	1	1.096	5256701	939463	2325	5812	404		
407.8398	49:38	49:37	1	1.096	4979067	891104	1882	4705	473	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	202957	39936	1	2	39936		
395.7995	37:08	37:08	0	1.001	176918	34955	1	2	34955	1.15(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	202144	37551	1	2	37551		
395.7995	37:29	37:28	1	1.010	179599	34060	1	2	34060	1.13(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	1	1.024	191423	36695	1	2	36695		
395.7995	38:00	38:00	1	1.024	179025	35487	1	2	35487	1.07(0.89-1.21)	
PCB-176											
393.8025	38:22	38:21	1	1.034	169137	31683	1	2	31683		
395.7995	38:22	38:21	1	1.034	162714	30208	1	2	30208	1.04(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	1	1.046	199536	38220	1	2	38220		
395.7995	38:48	38:48	1	1.046	194846	39879	1	2	39879	1.02(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	122987	24074	1	2	24074		
395.7995	40:12	40:11	1	1.083	123642	23892	1	2	23892	0.99(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	131749	25500	1	2	25500		
395.7995	40:50	40:49	1	1.100	114438	23444	1	2	23444	1.15(0.89-1.21)	
PCB-187											
393.8025	41:06	41:05	1	1.107	149004	27678	1	2	27678		
395.7995	41:06	41:05	1	1.108	147373	24964	1	2	24964	1.01(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	1	1.113	137354	24767	1	2	24767		
395.7995	41:18	41:18	1	1.113	125655	23124	1	2	23124	1.09(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		M
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:57	41:56	1	1.130	133000	23832	1	2	23832		
395.7995	41:57	41:56	1	1.130	125926	23720	1	2	23720	1.06(0.89-1.21)	
PCB-177											
393.8025	42:23	42:22	1	1.142	137500	23996	1	2	23996		
395.7995	42:23	42:22	1	1.142	127589	22906	1	2	22906	1.08(0.89-1.21)	
PCB-181											
393.8025	42:47	42:45	1	1.153	124663	21505	1	2	21505		
395.7995	42:46	42:45	1	1.152	118426	24242	1	2	24242	1.05(0.89-1.21)	
PCB-171											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.899	121992	23675	1	2	23675		
395.7995	44:38	44:37	1	0.899	103874	19415	1	2	19415	1.17(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	1	0.905	186600	36146	1	2	36146		
395.7995	44:54	44:54	1	0.905	179581	36080	1	2	36080	1.04(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	1	0.920	179746	34821	1	2	34821		
395.7995	45:39	45:37	1	0.920	168660	29422	1	2	29422	1.07(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	1	0.938	126748	23322	1	2	23322		
395.7995	46:32	46:32	1	0.938	128475	25370	1	2	25370	0.99(0.89-1.21)	
PCB-190											M
393.8025	47:03	47:02	1	0.948	175590	31319	1	2	31319		M
395.7995	47:03	47:02	1	0.948	189120	35074	1	2	35074	0.93(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	249756	43600	171	427	255		
395.7995	49:39	49:38	1	1.001	243423	44158	168	420	263	1.03(0.89-1.21)	
PCB-202L											
439.8038	42:29	42:28	1	0.821	2457625	465504	42	105	11083		
441.8008	42:29	42:28	1	0.821	2631952	501789	25	62	20072	0.93(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:44	51:43	1		3403544	611705	258	645	2371		
441.8008	51:44	51:43	1		3762467	688622	178	445	3869	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:13	52:11	1	1.009	4010000	709263	258	645	2749		
441.8008	52:12	52:11	1	1.009	4406261	783240	178	445	4400	0.91(0.76-1.02)	
PCB-202											
427.7635	42:31	42:29	1	1.001	124170	24684	1	2	24684		
429.7606	42:31	42:29	1	1.001	140298	26902	17	42	1582	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	1	1.022	118945	23475	1	2	23475		
429.7606	43:26	43:25	1	1.022	123249	23673	17	42	1393	0.97(0.76-1.02)	
PCB-204											
427.7635	44:06	44:05	1	1.038	121461	23572	1	2	23572		
429.7606	44:06	44:05	1	1.038	138222	26378	17	42	1552	0.88(0.76-1.02)	
PCB-197											
427.7635	44:21	44:19	1	1.044	128656	23432	1	2	23432		
429.7606	44:20	44:19	1	1.043	149488	28548	17	42	1679	0.86(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	128324	22713	1	2	22713		
429.7606	44:26	44:25	1	1.046	136366	25818	17	42	1519	0.94(0.76-1.02)	
PCB-198											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-196											
427.7635	47:54	47:53	1	0.917	95919	19254	1	2	19254		
429.7606	47:54	47:53	1	0.918	103060	20974	17	42	1234	0.93(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	1	0.921	115314	21075	1	2	21075		
429.7606	48:05	48:05	1	0.921	120493	22479	17	42	1322	0.96(0.76-1.02)	
PCB-195											
427.7635	49:25	49:23	1	0.946	169023	30667	149	372	206		
429.7606	49:25	49:23	1	0.946	179227	32664	188	470	174	0.94(0.76-1.02)	
PCB-194											
427.7635	51:46	51:44	1	0.991	191844	37266	149	372	250		
429.7606	51:46	51:44	1	0.991	202393	36860	188	470	196	0.95(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	1	1.000	215128	37851	149	372	254		
429.7606	52:13	52:13	1	1.000	233118	42488	188	470	226	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:10	49:09	1	0.950	3068462	547353	455	1137	1203		
475.7619	49:09	49:09	1	0.950	3791189	695937	495	1237	1406	0.81(0.65-0.89)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:58	53:57	1	1.043	2249970	404384	455	1137	889		
475.7619	53:58	53:57	1	1.043	2774741	498983	495	1237	1008	0.81(0.65-0.89)	
PCB-208											
461.7246	49:11	49:10	1	1.001	176905	32074	246	615	130		M
463.7216	49:11	49:10	1	1.000	222670	41885	615	1537	68	0.79(0.65-0.89)	M
PCB-207											
461.7246	50:07	50:05	1	1.019	175538	32184	246	615	131		M
463.7216	50:06	50:05	1	1.019	223758	40880	615	1537	66	0.78(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	137945	24931	246	615	101		M
463.7216	53:59	53:58	1	1.000	179481	33079	615	1537	54	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2024411	339274	109	272	3113		
509.7229	55:35	55:34	1	1.074	2865340	487443	113	282	4314	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	114777	18634	50	125	373		
497.6826	55:37	55:36	1	1.000	158569	25903	22	55	1177	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61L21668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

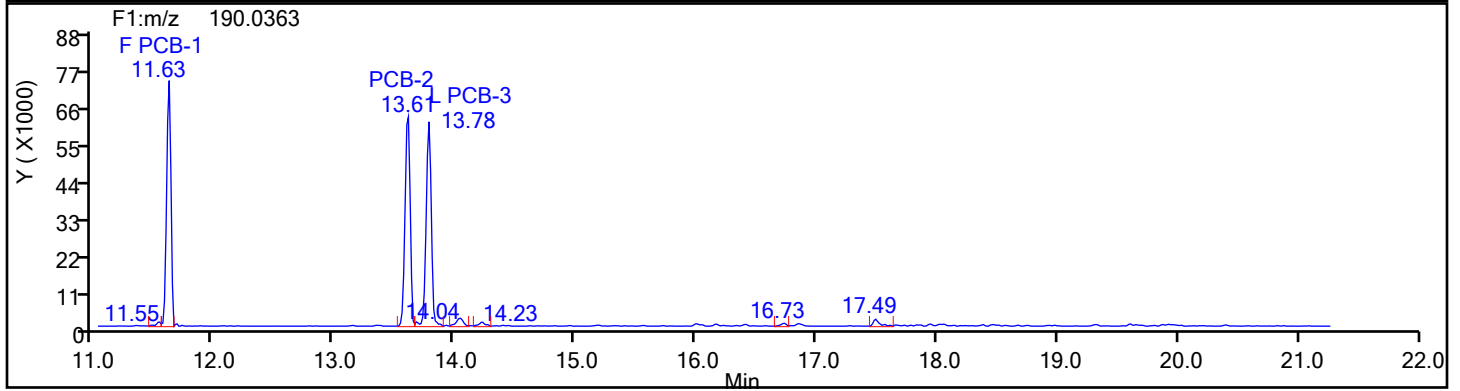
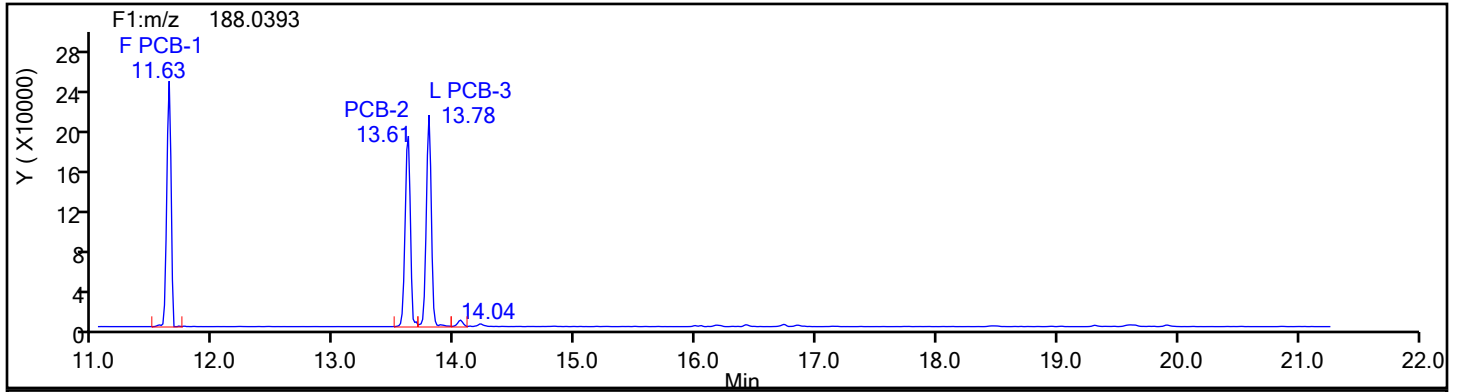
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Sample Line#: 3

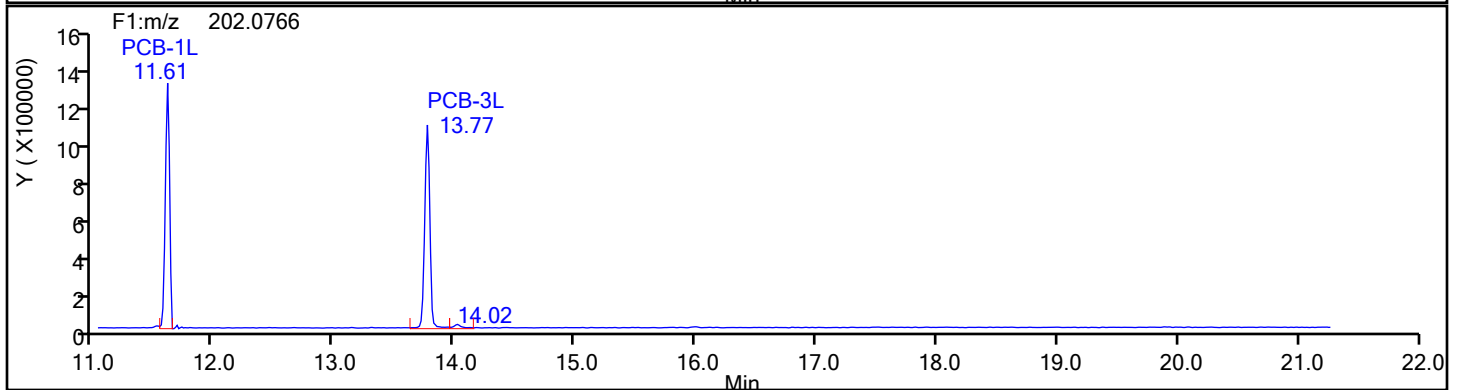
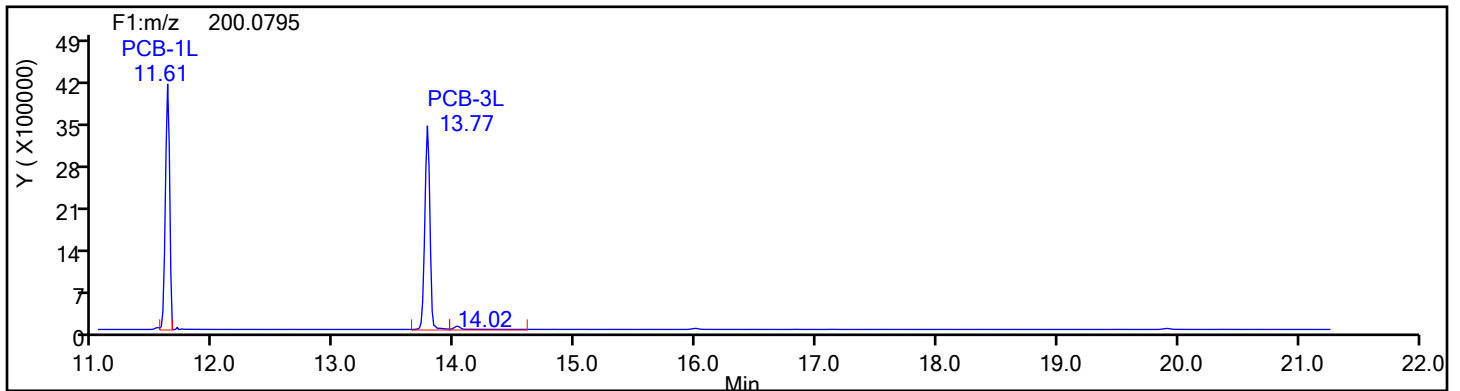
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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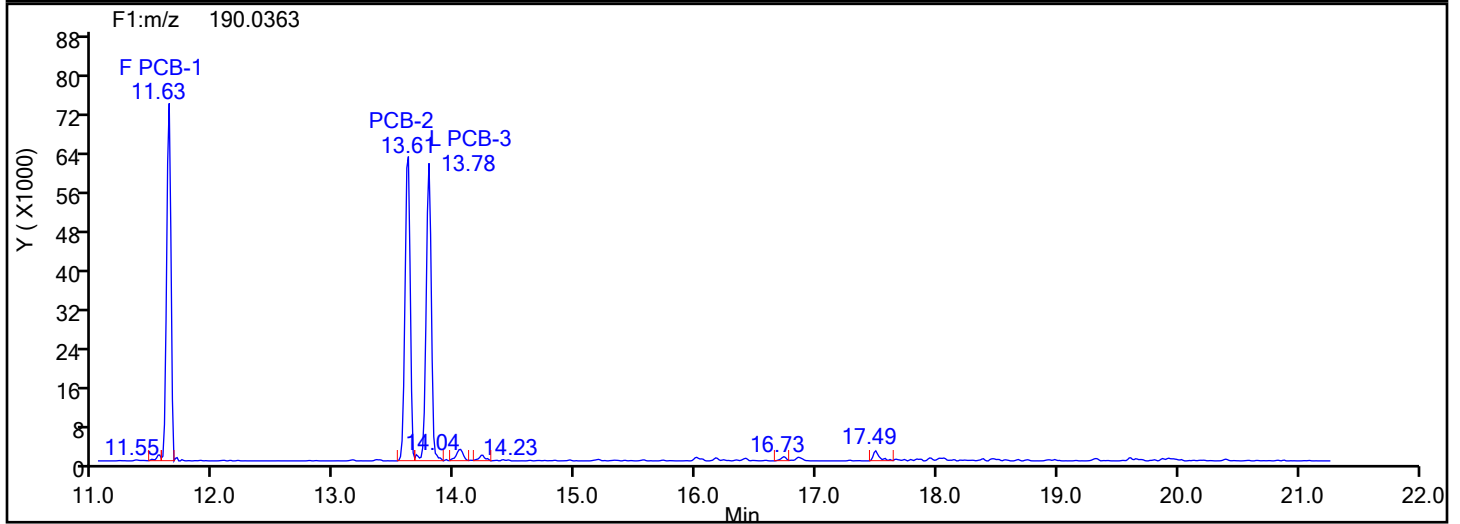
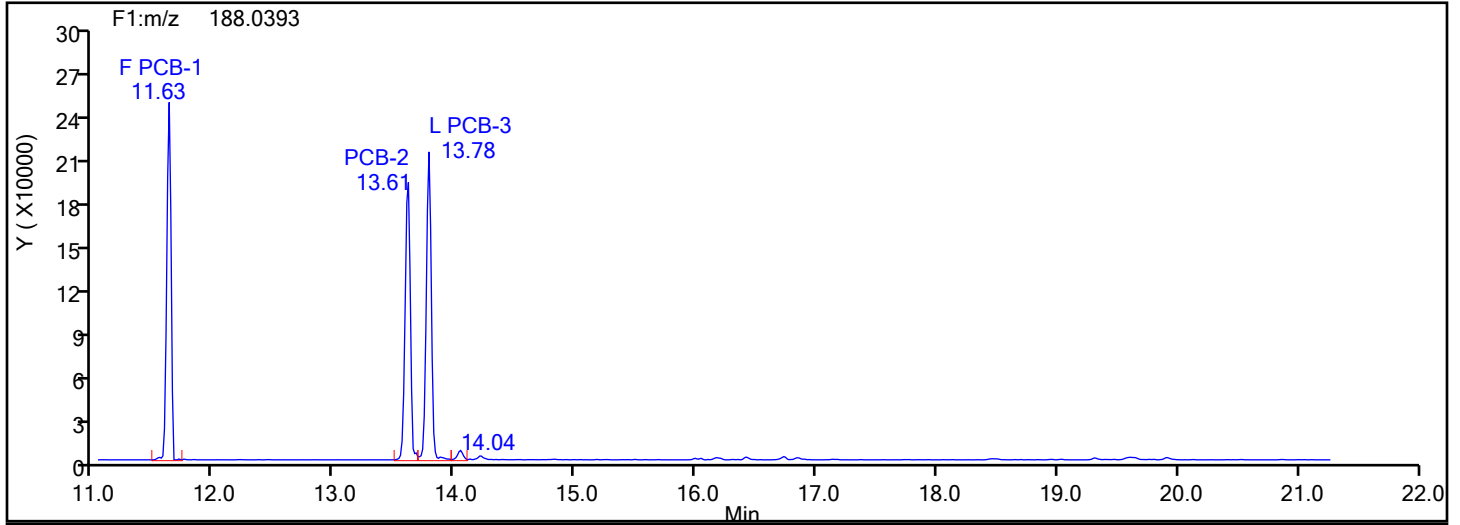
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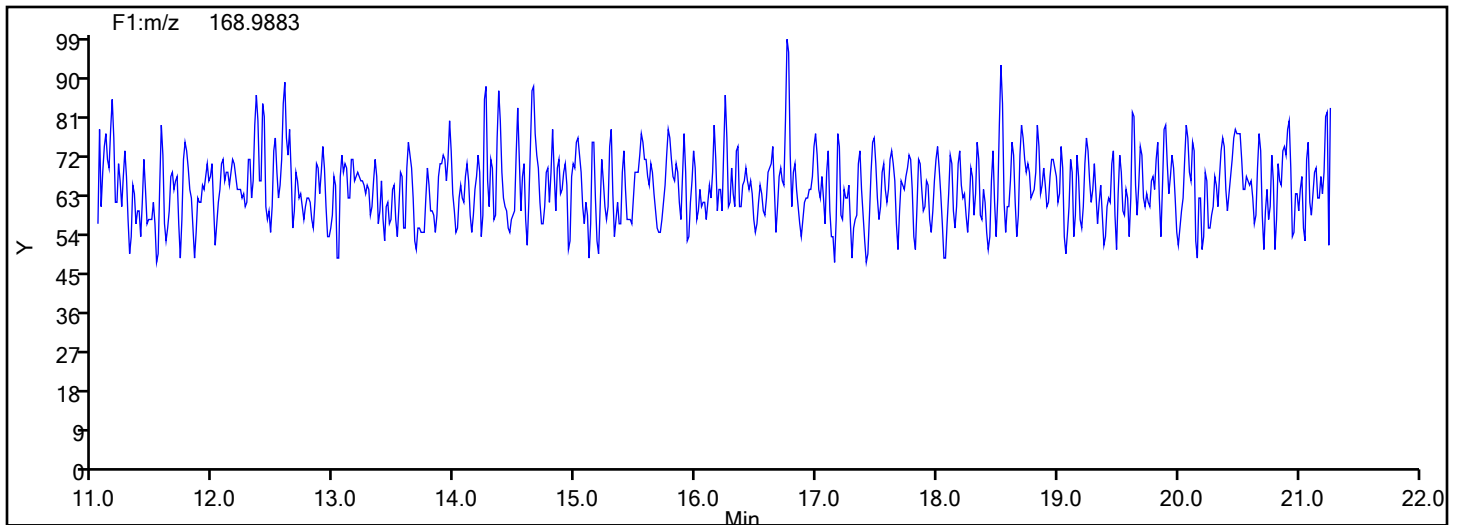
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

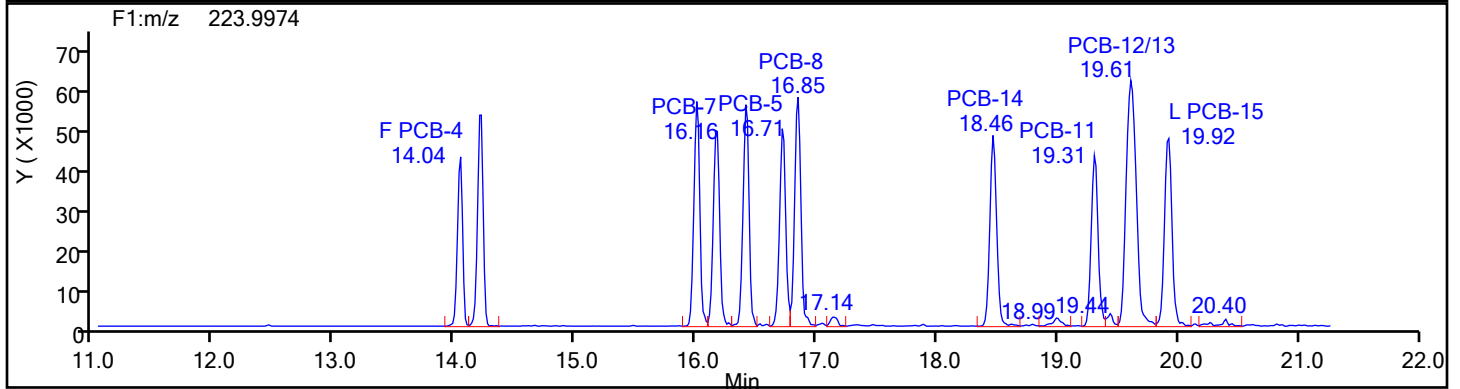
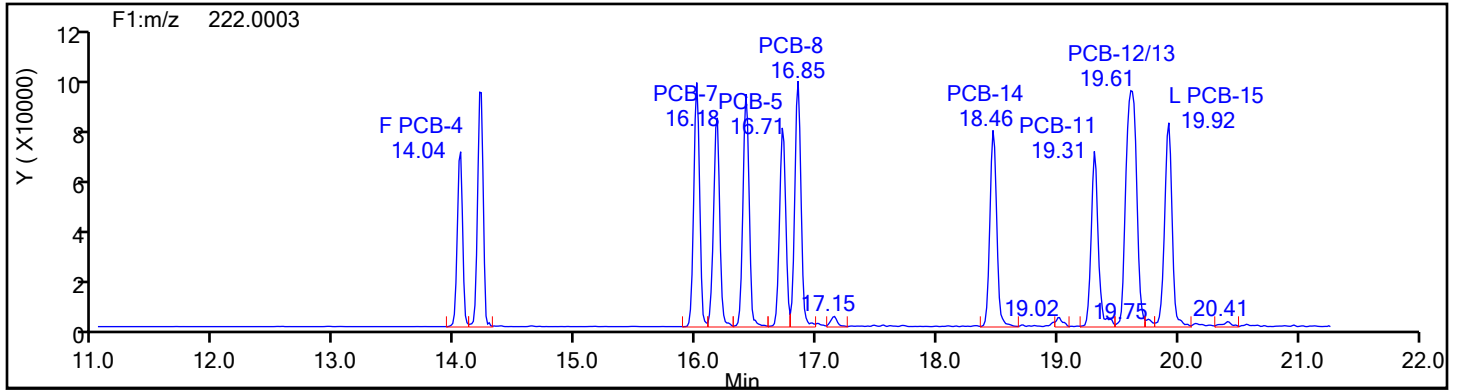
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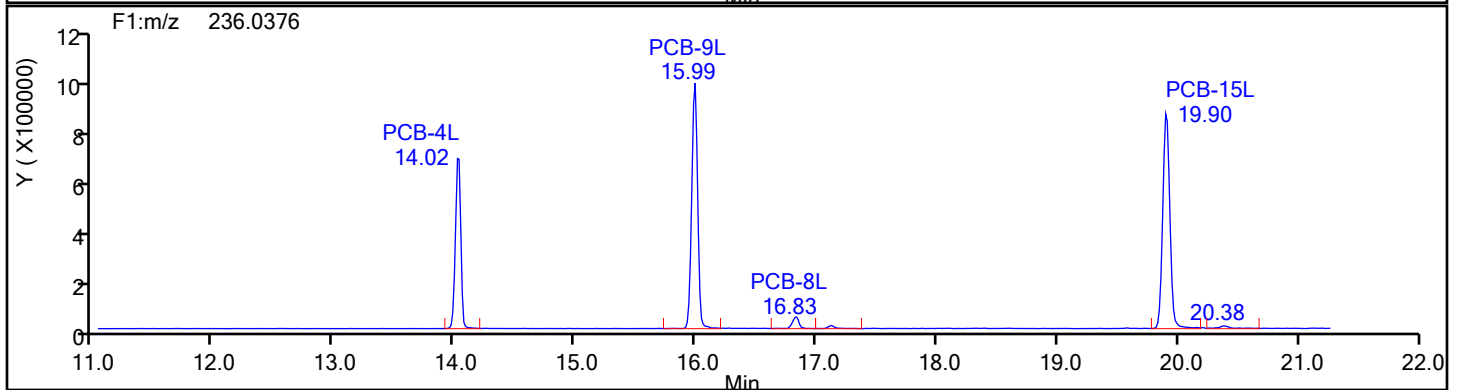
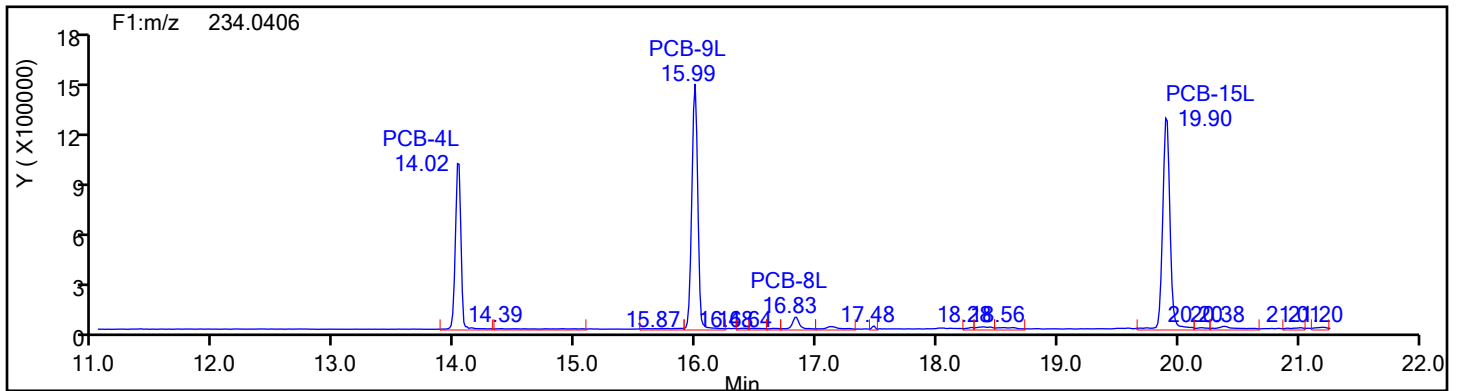
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

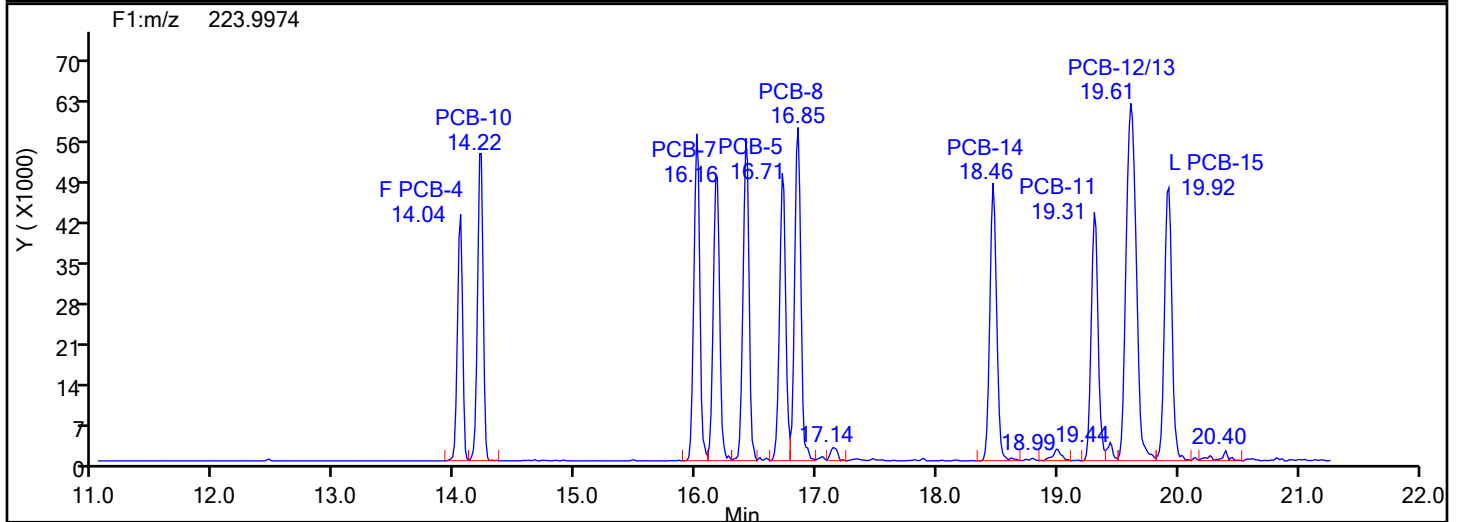
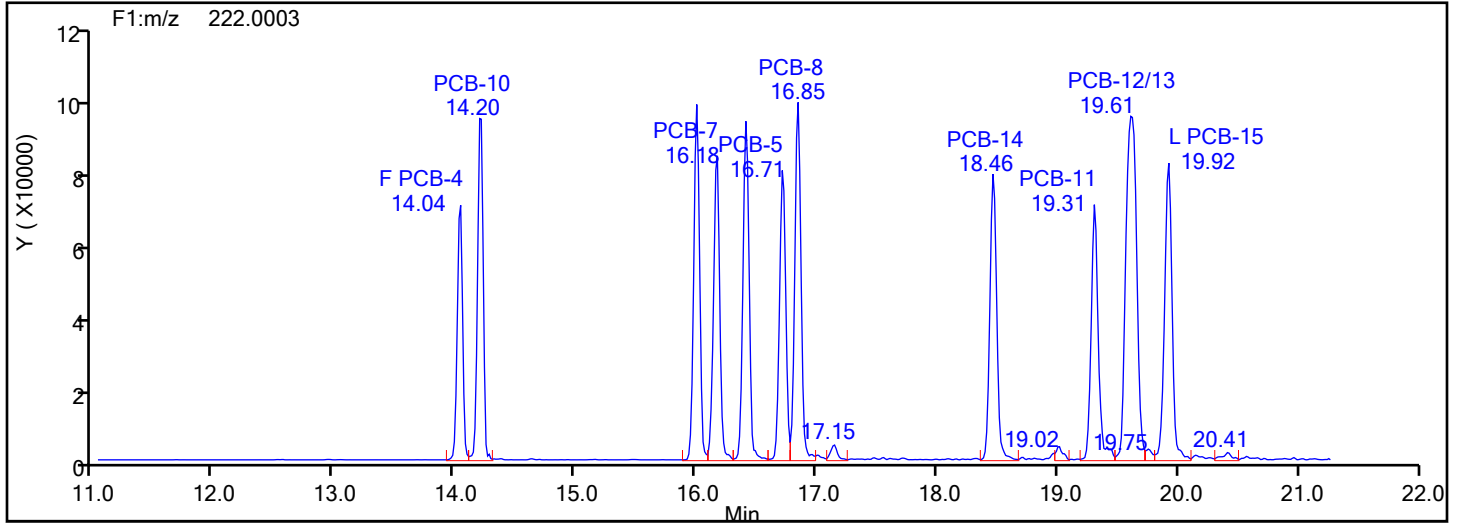
Worklist#: 87130

Sample Line#: 3

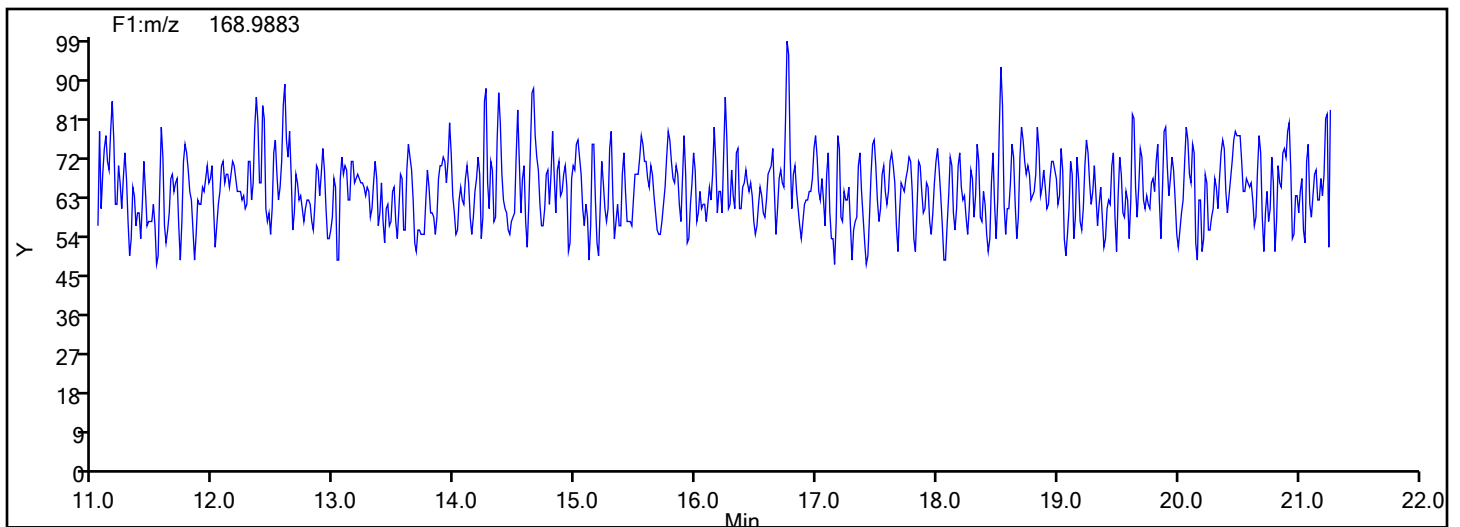
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

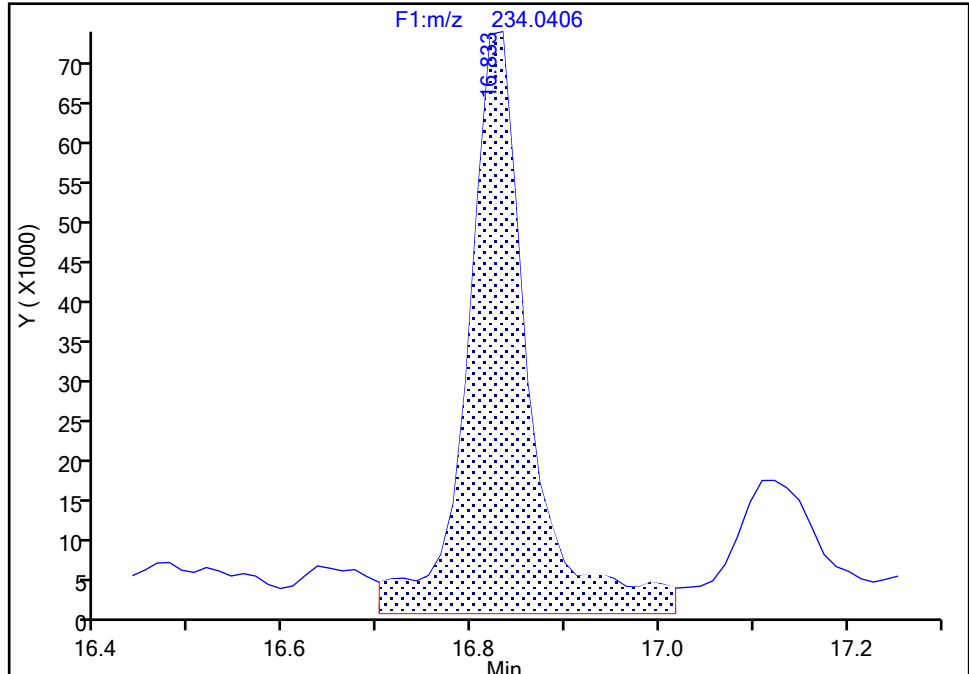
Detector F1(11.07 :21.70)

PCB-8L, CAS: STL01600

Signal: 1

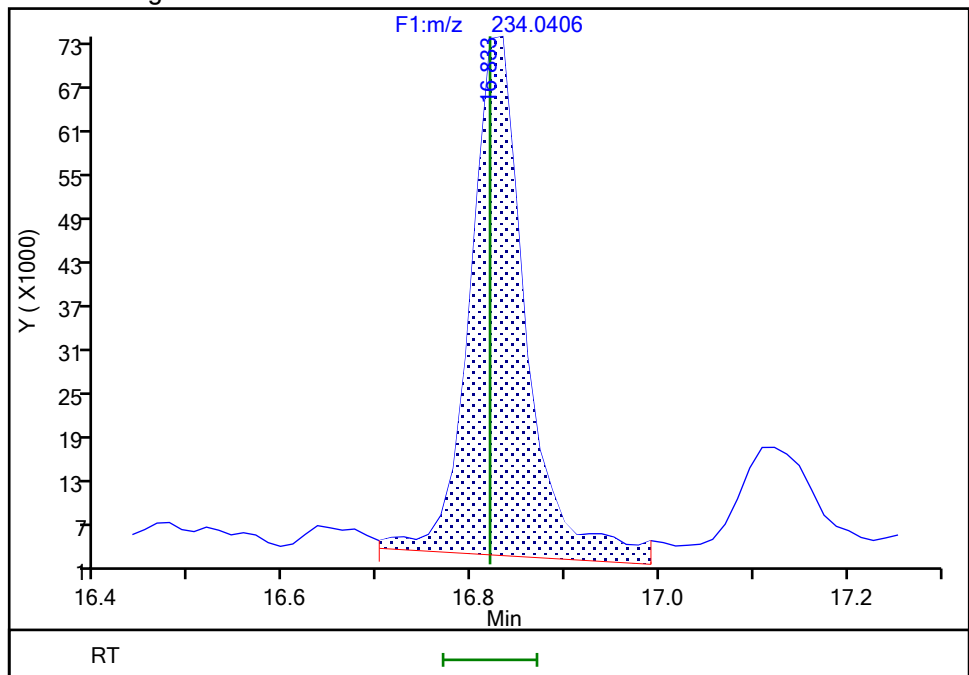
RT: 16.83
Area: 333617
Amount: 5.908651
Amount Units: pg/ul

Processing Integration Results



RT: 16.83
Area: 293687
Amount: 5.499787
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 31-May-2024 19:08:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

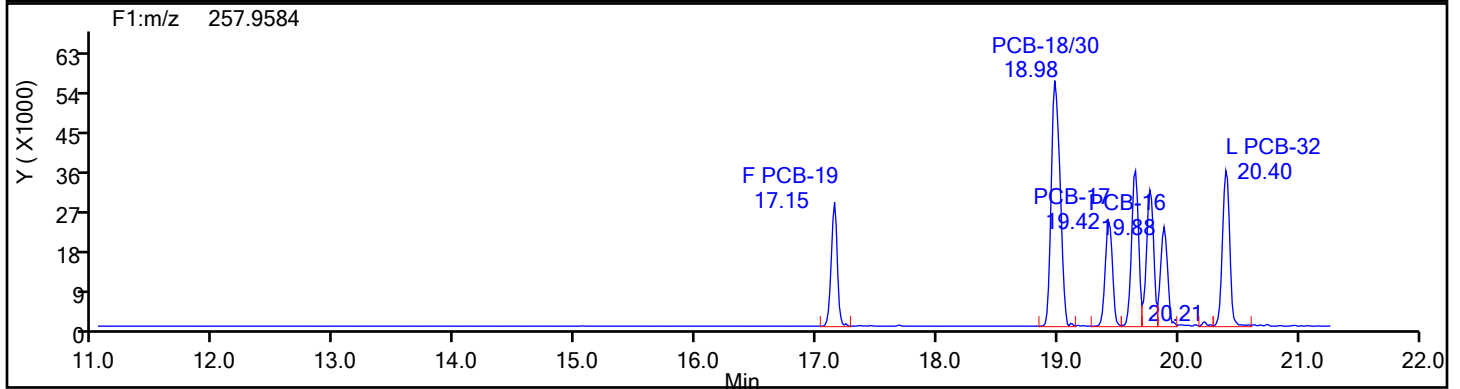
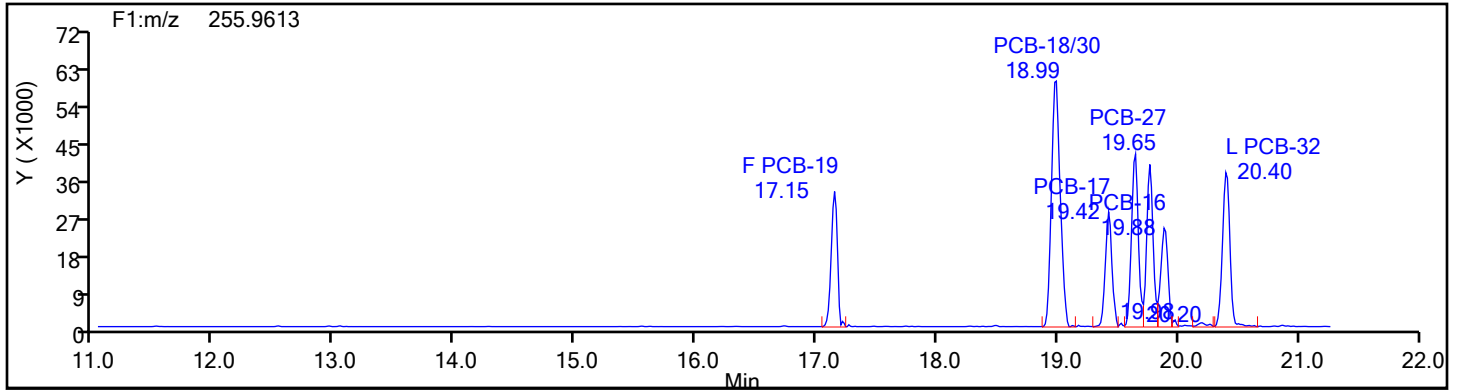
Worklist#: 87130

Sample Line#: 3

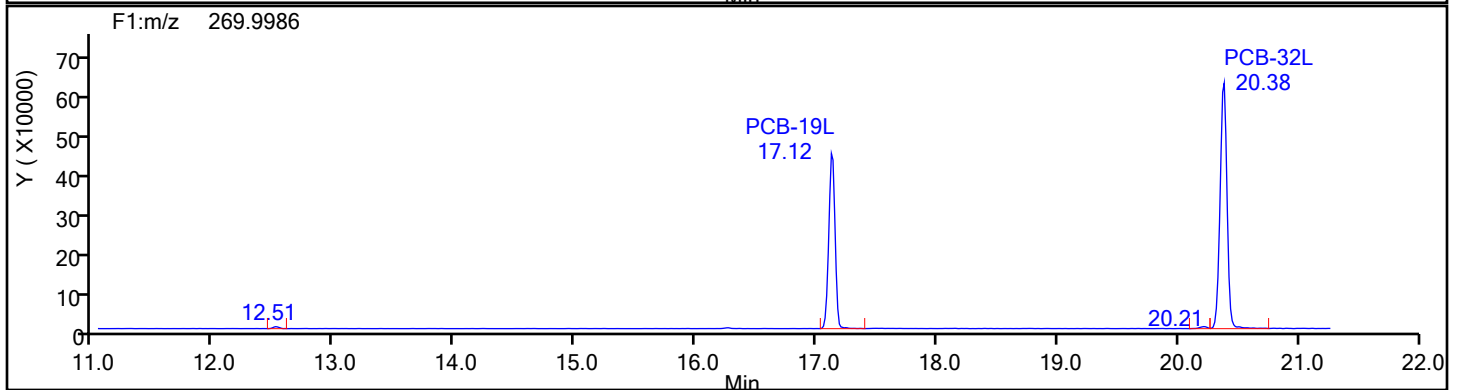
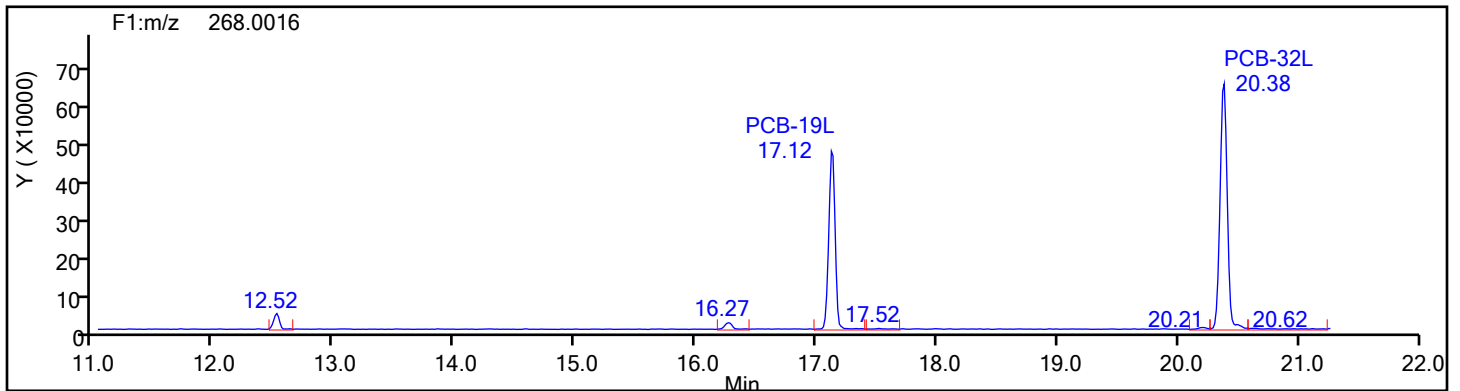
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

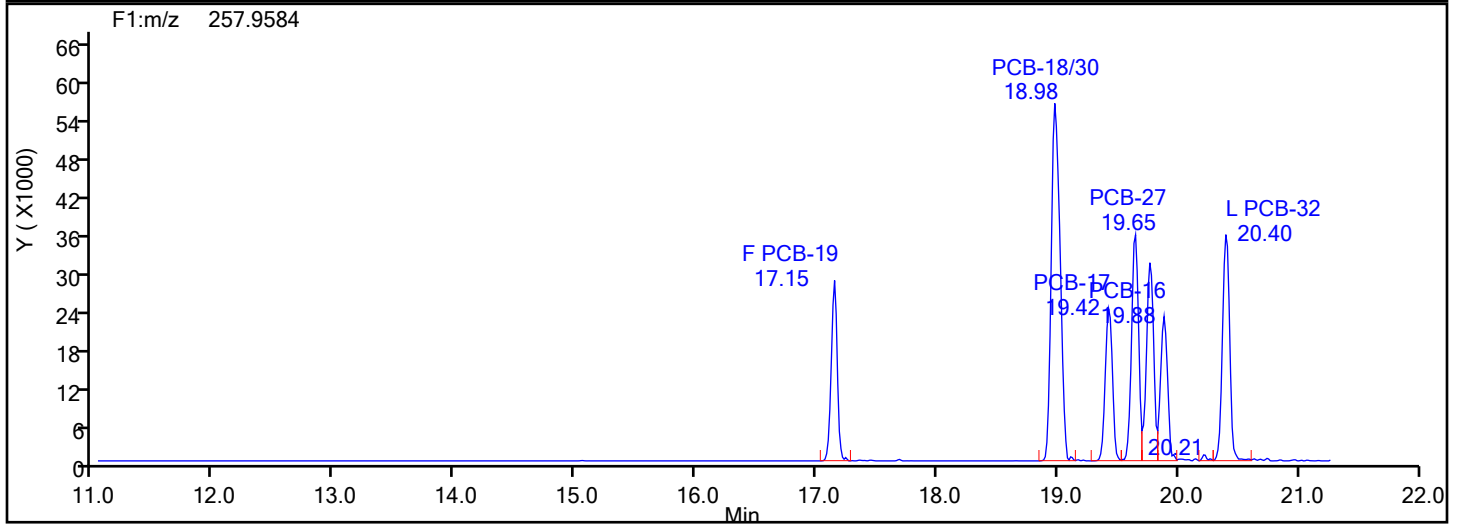
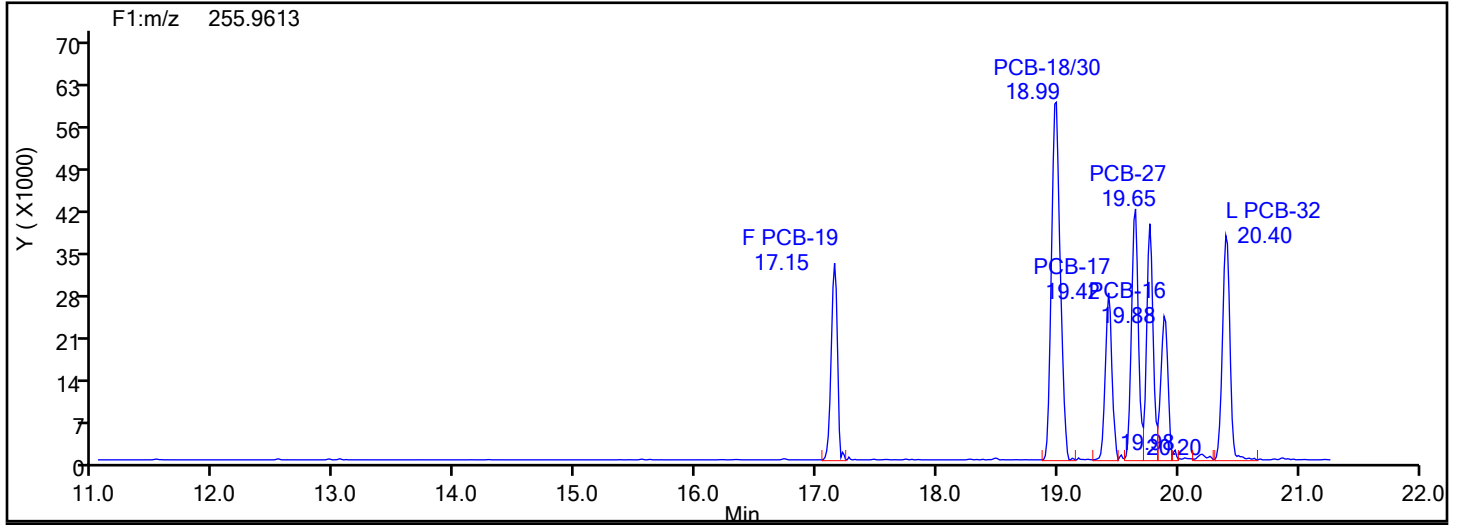
Worklist#: 87130

Sample Line#: 3

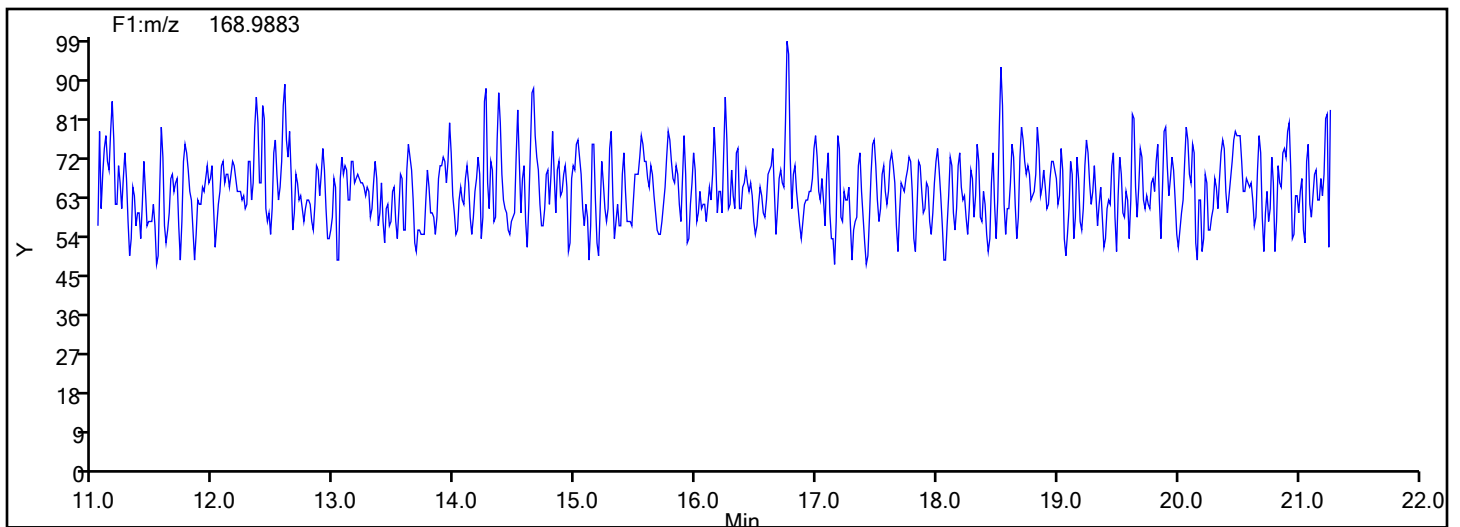
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

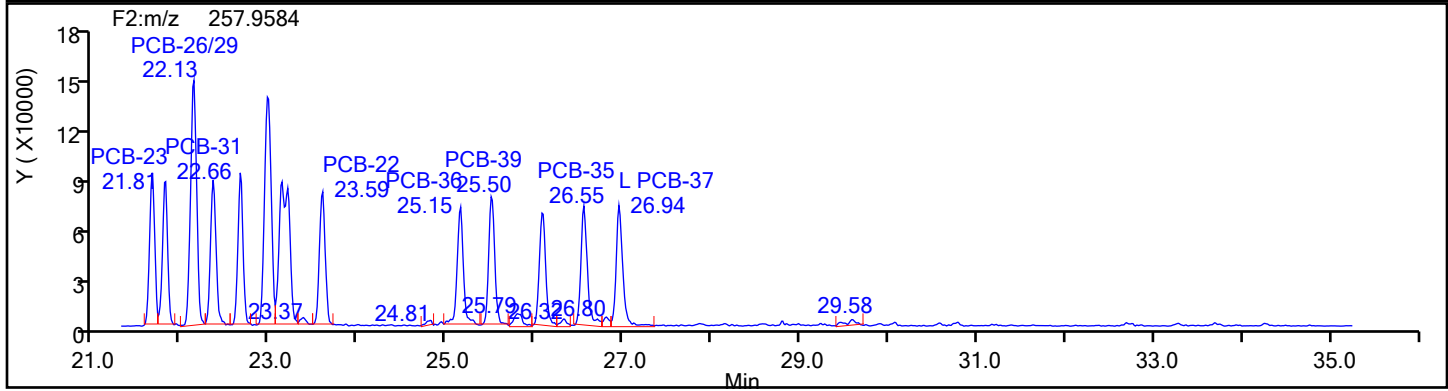
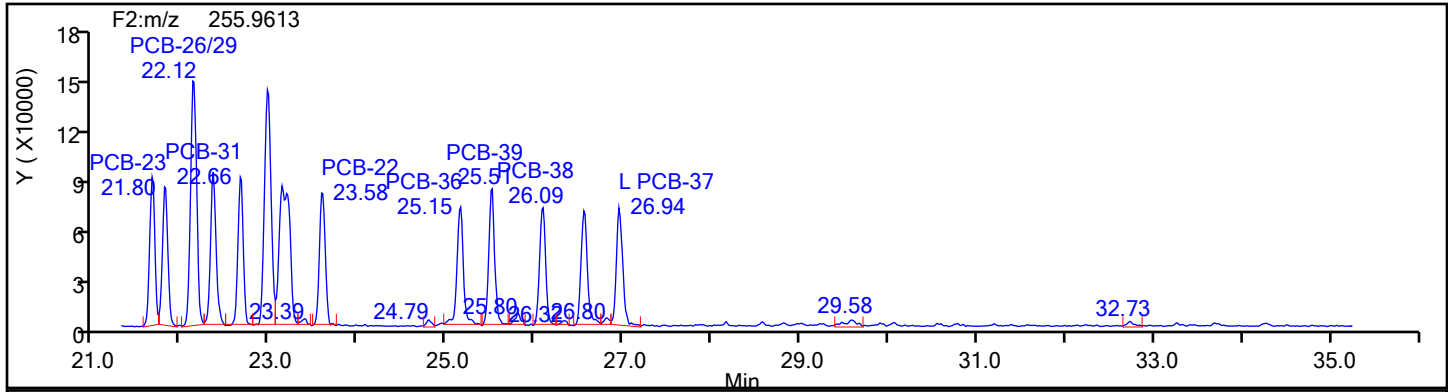
Worklist#: 87130

Sample Line#: 3

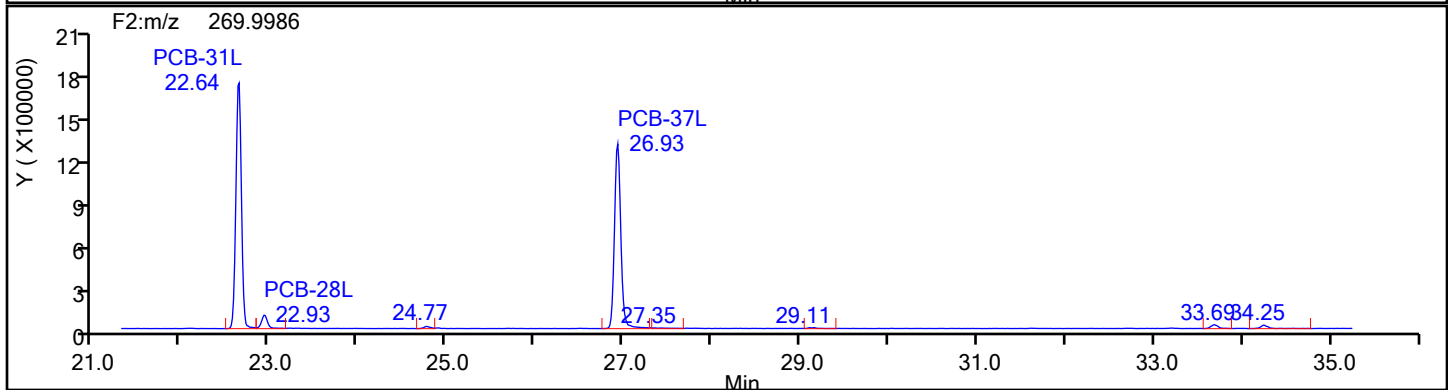
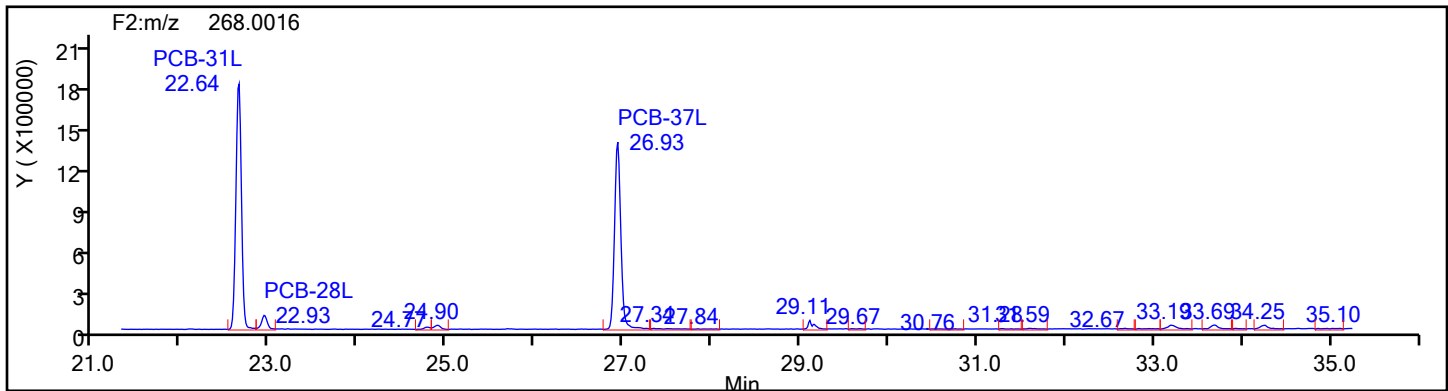
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

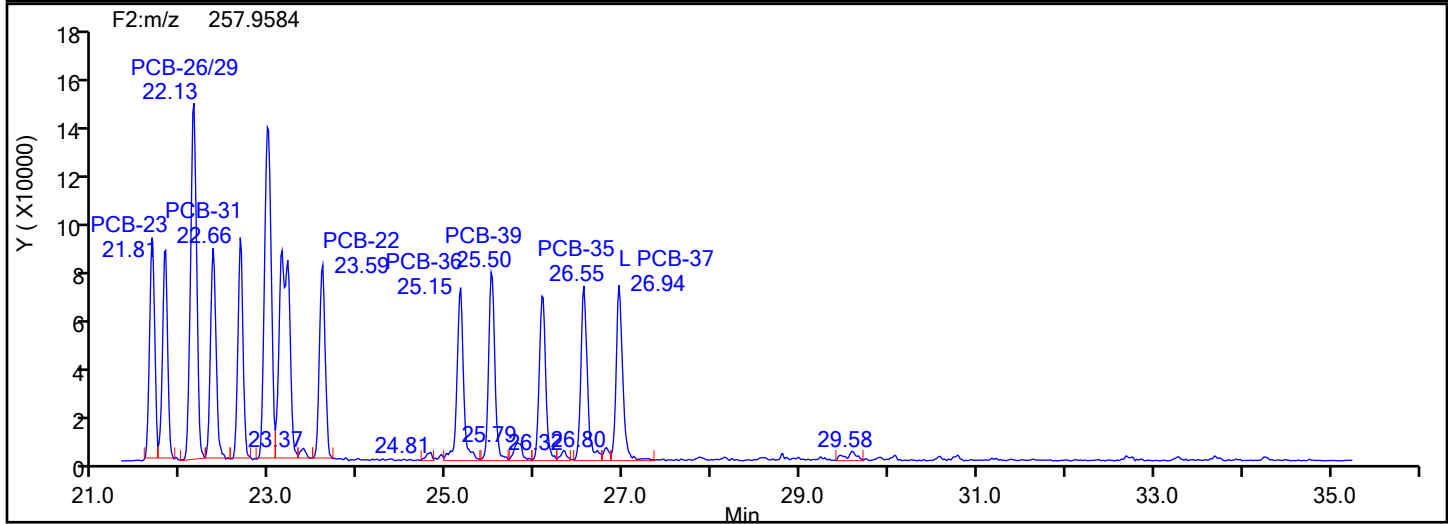
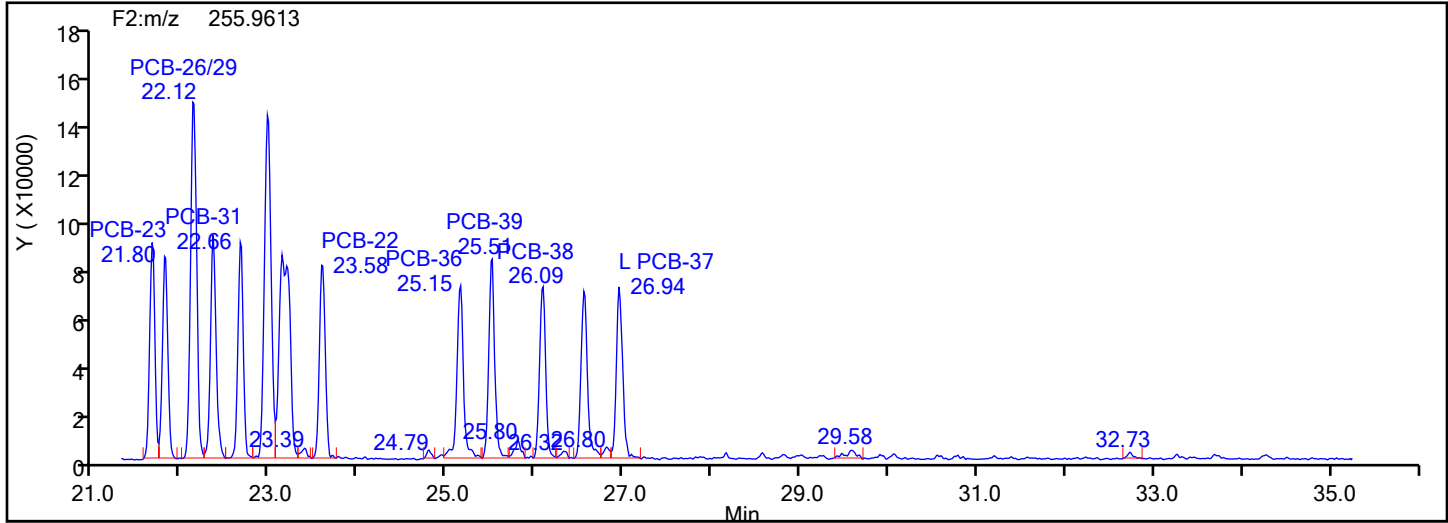
Worklist#: 87130

Sample Line#: 3

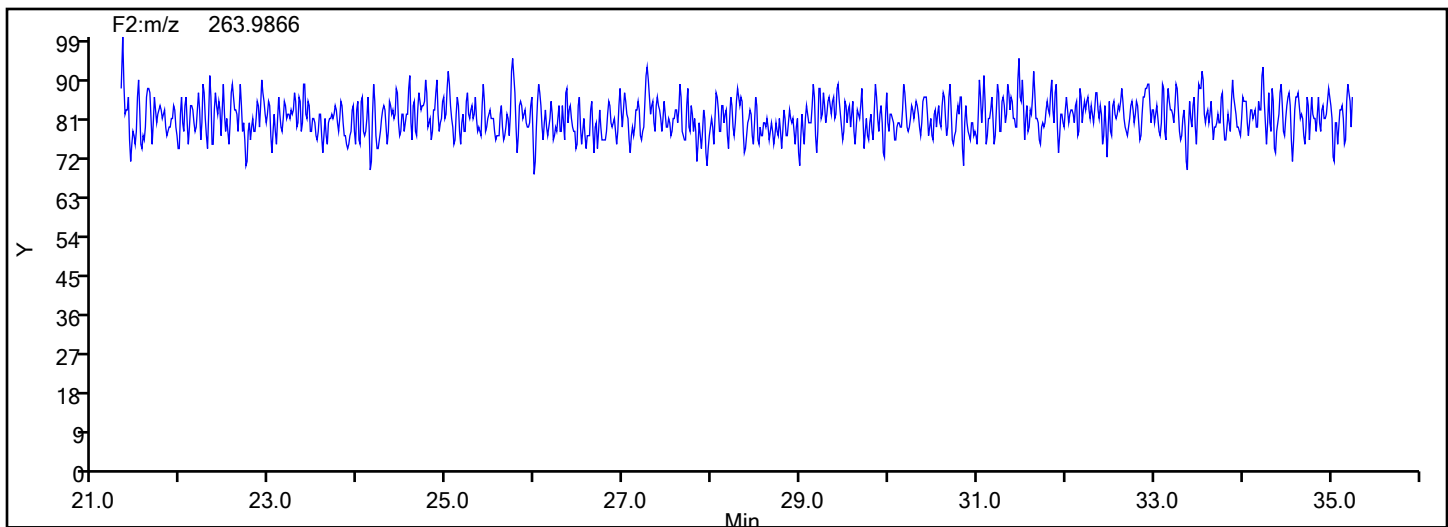
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

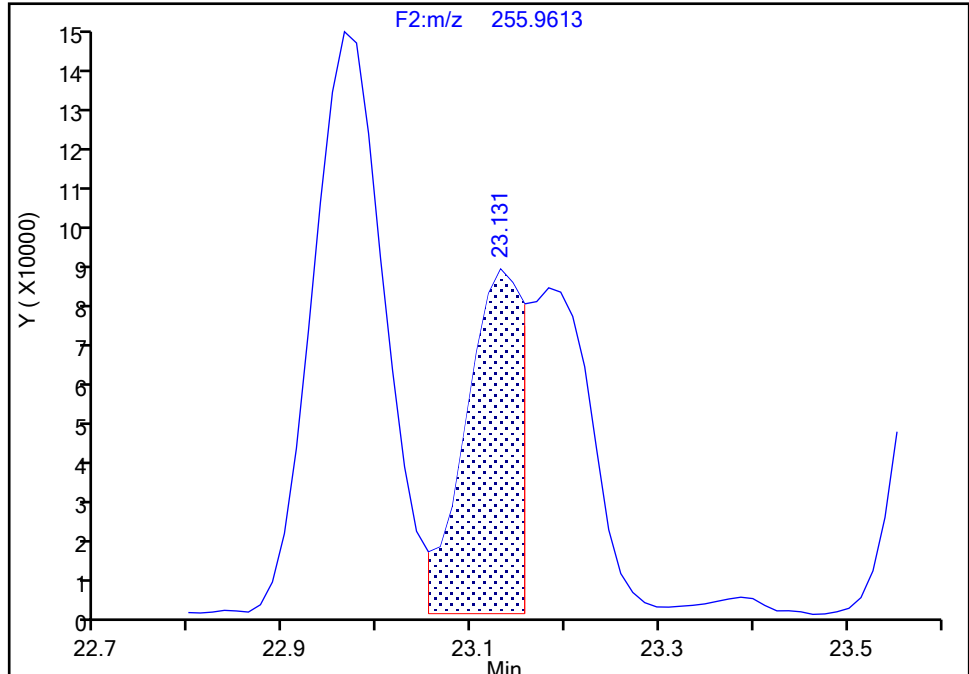
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

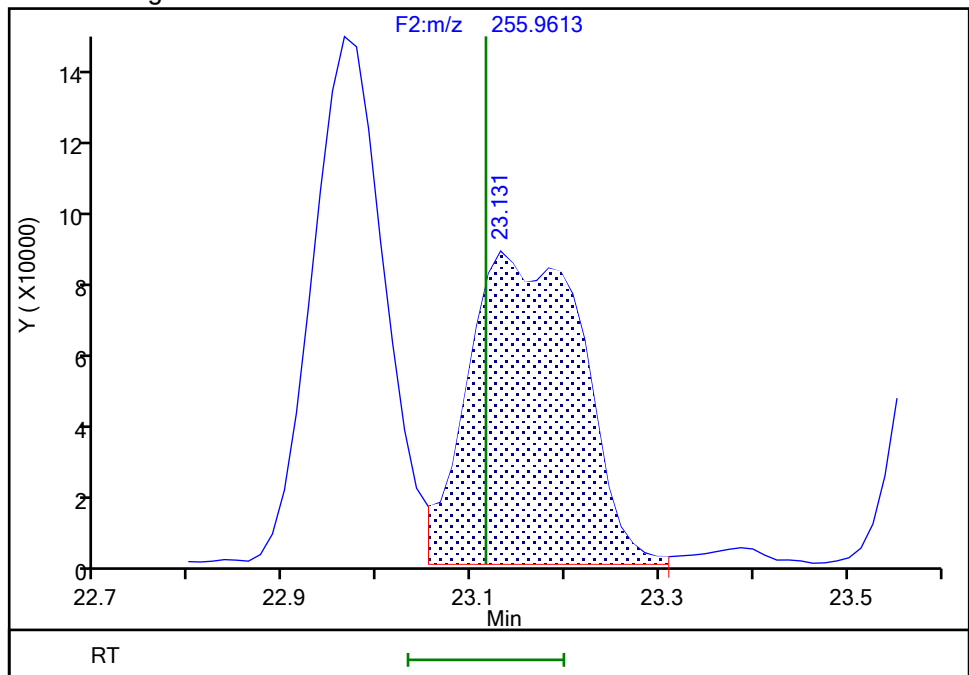
RT: 23.13
Area: 341530
Amount: 5.112120
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 720072
Amount: 9.960208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:42:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

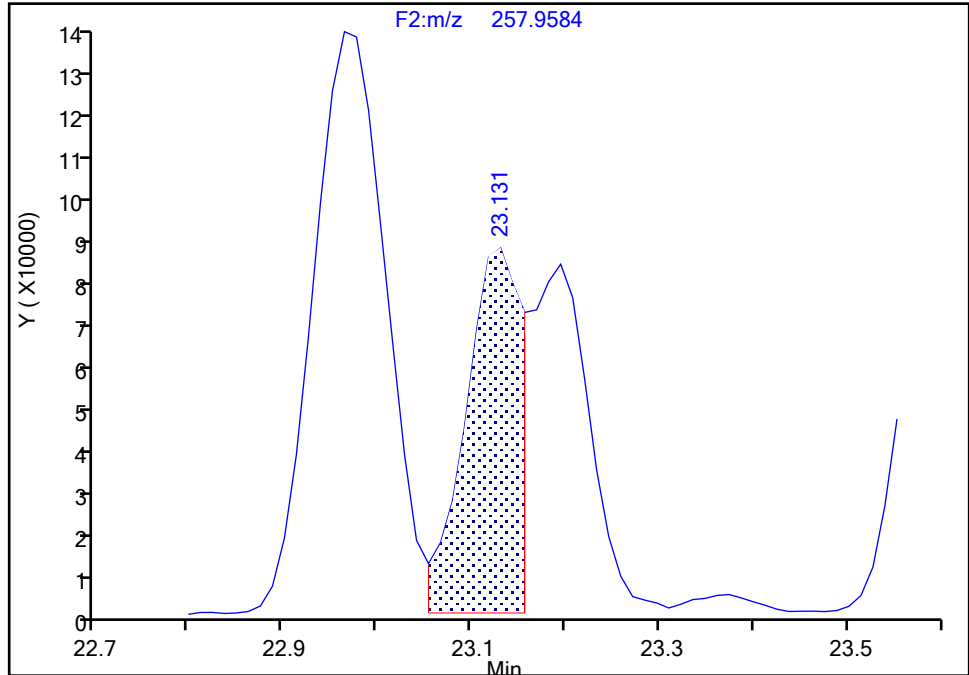
F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

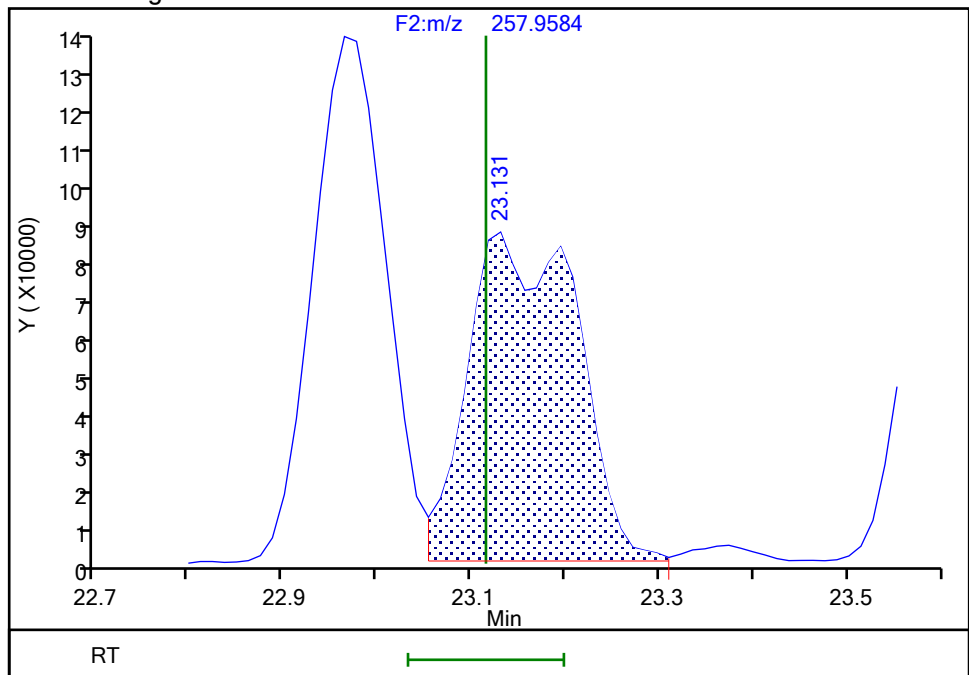
RT: 23.13
Area: 335268
Amount: 5.112120
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 683628
Amount: 9.960208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1977 of 3050

BASFWHC-McIntosh-009978

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

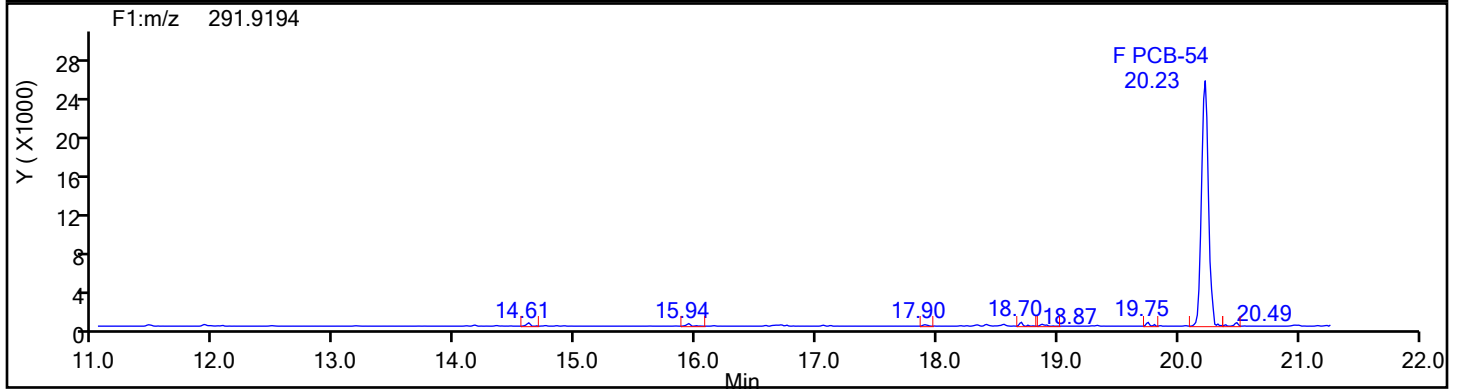
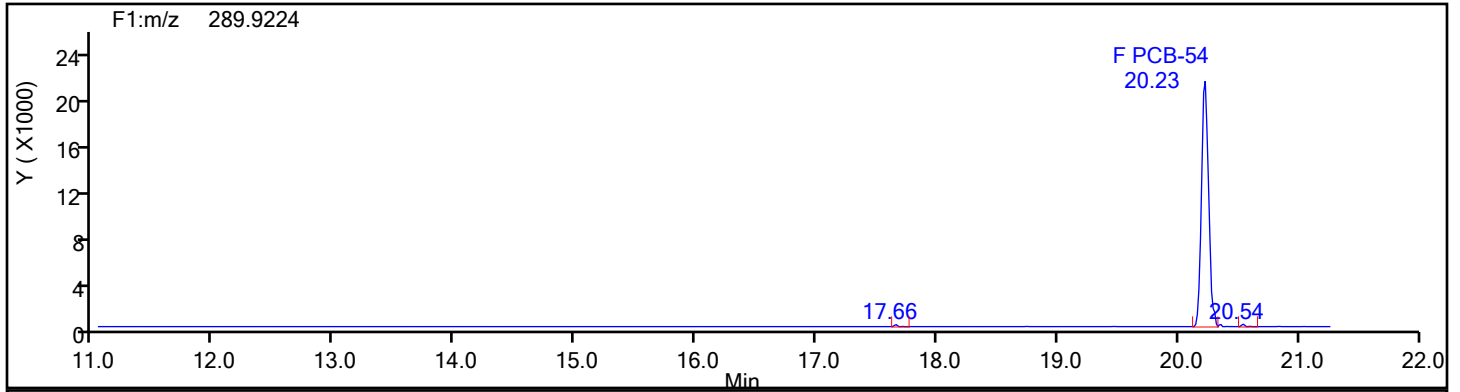
Worklist#: 87130

Sample Line#: 3

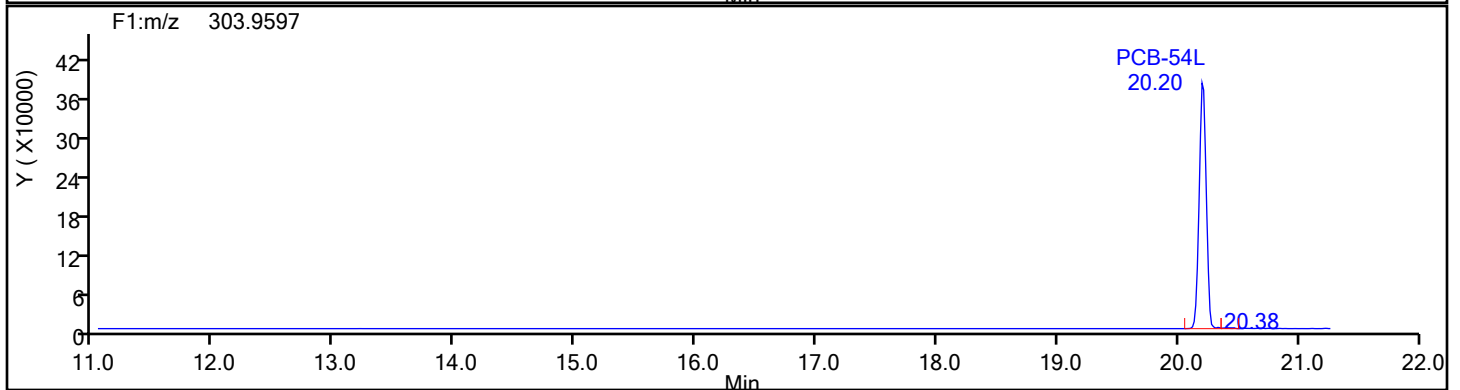
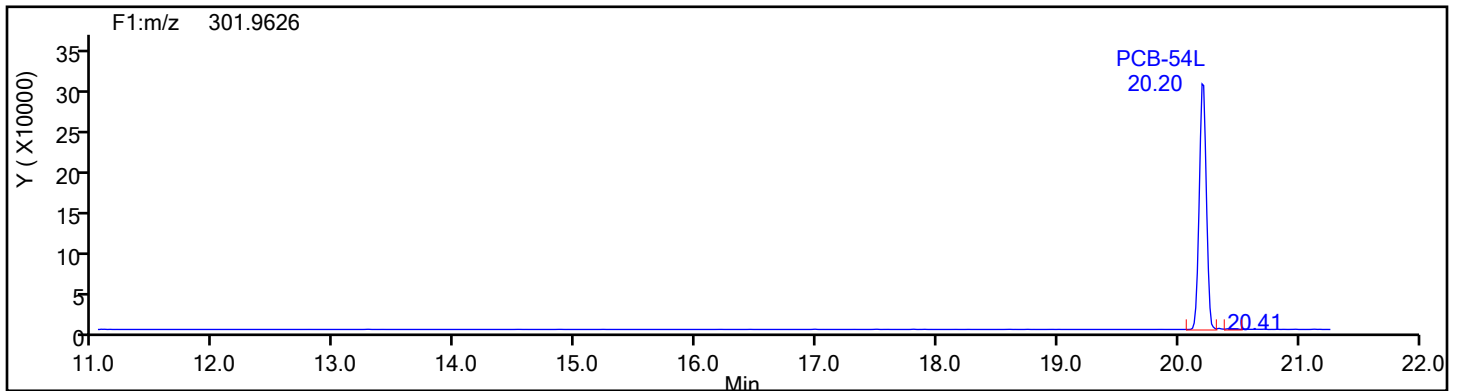
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

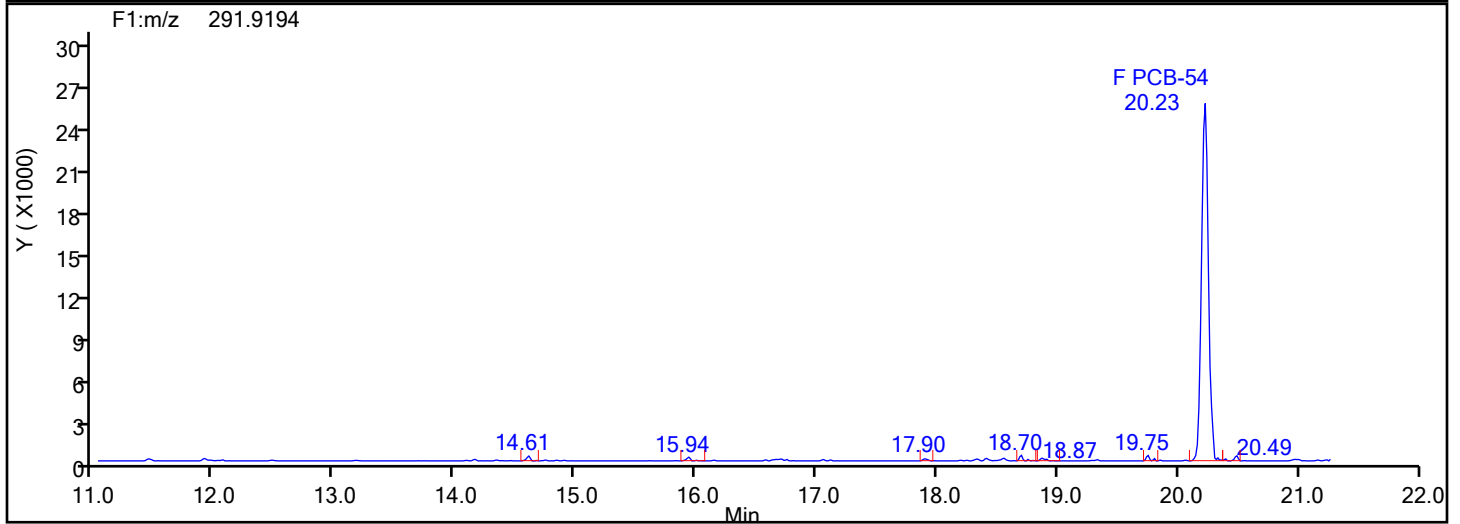
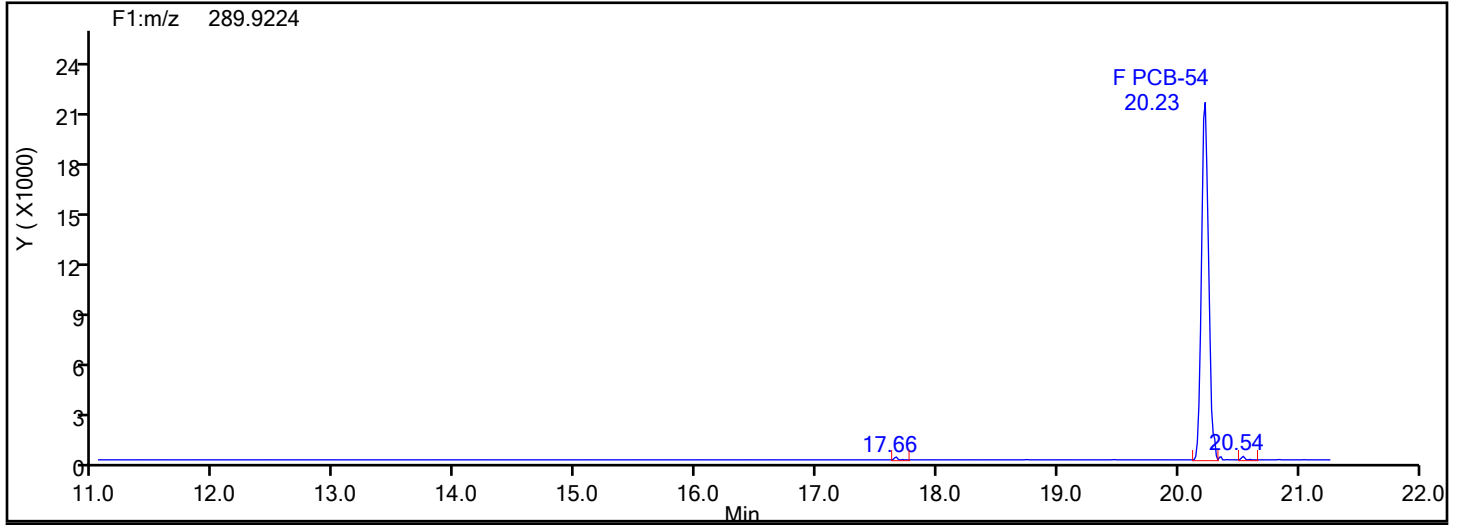


TePCB F1 Standards

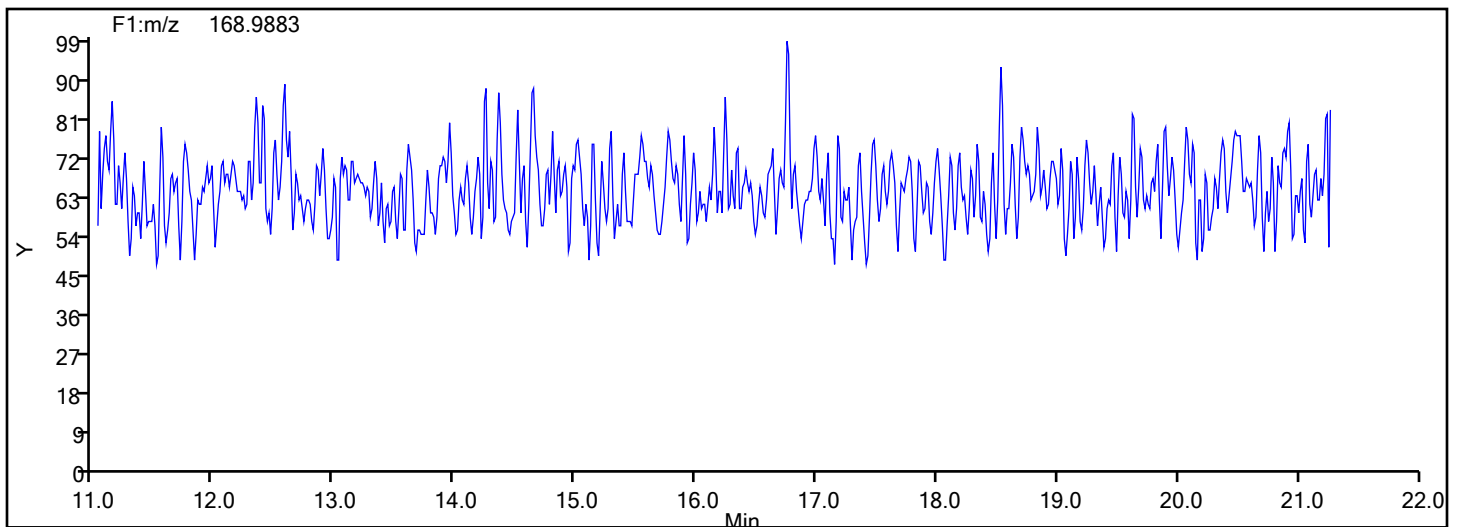


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

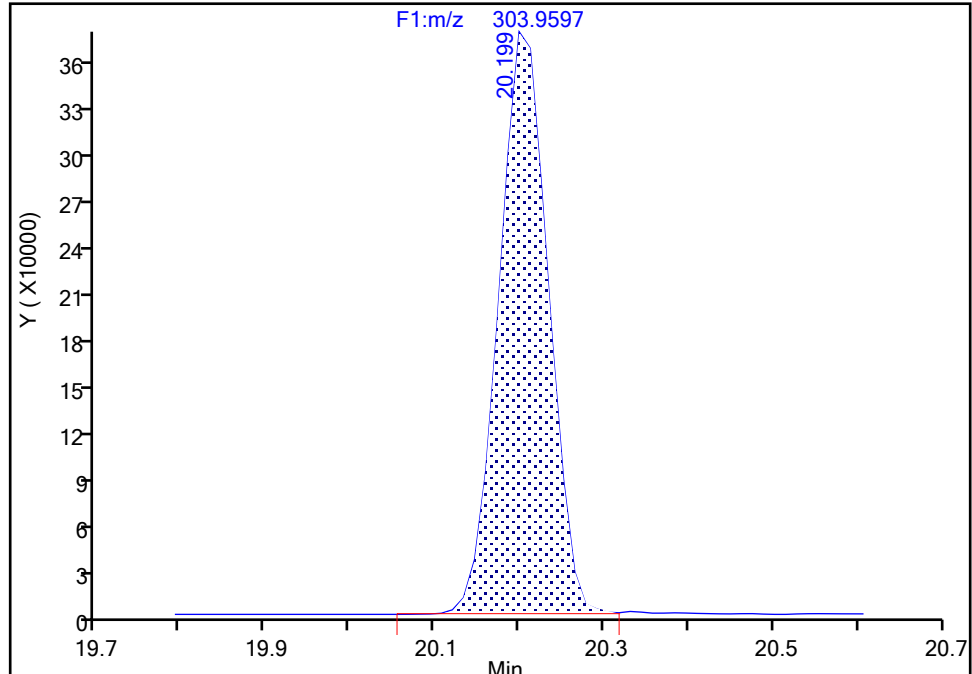
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

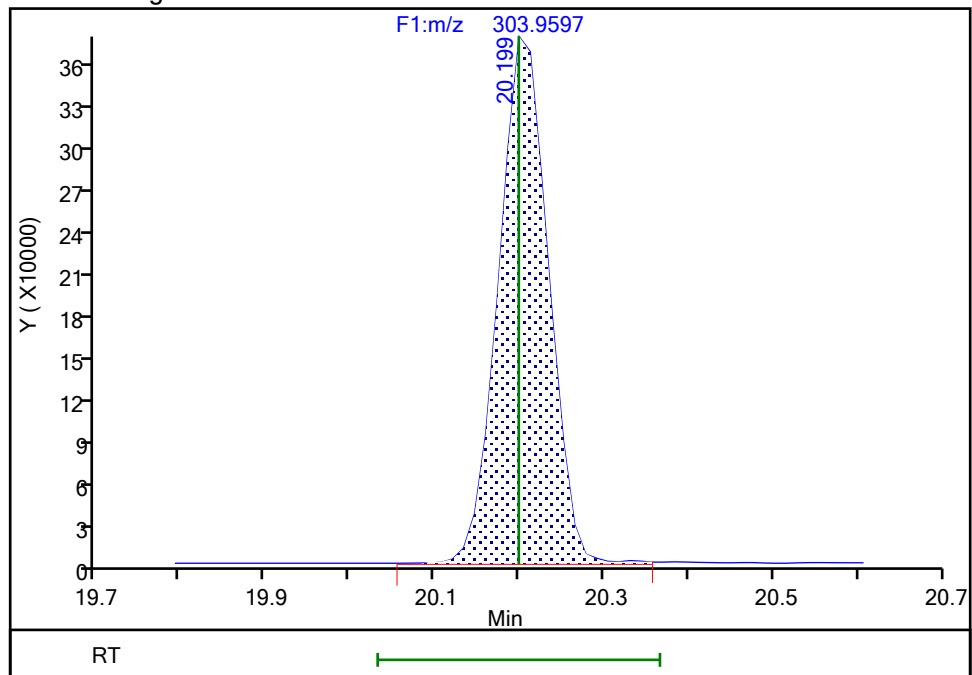
RT: 20.20
Area: 1539448
Amount: 88.210787
Amount Units: pg/ul

Processing Integration Results



RT: 20.20
Area: 1551267
Amount: 95.415041
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

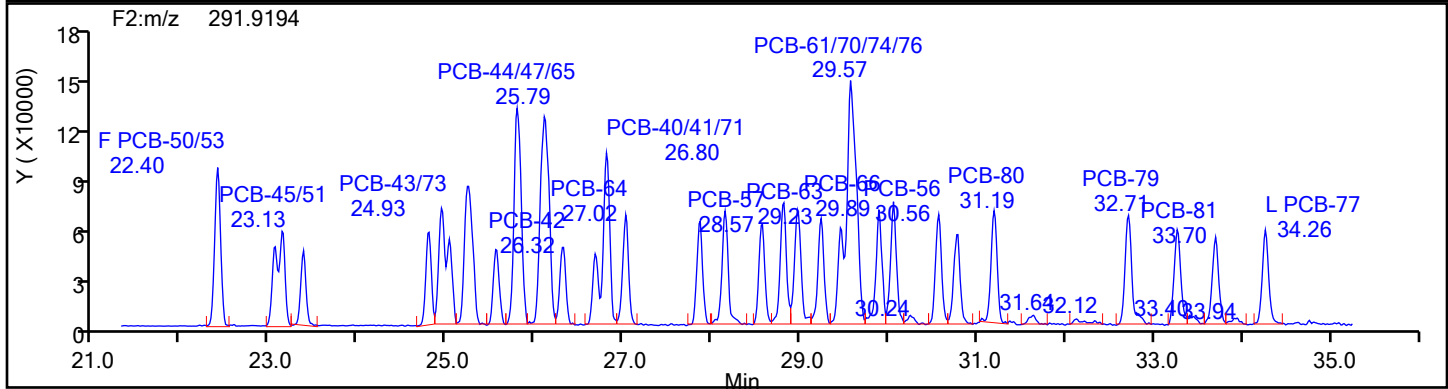
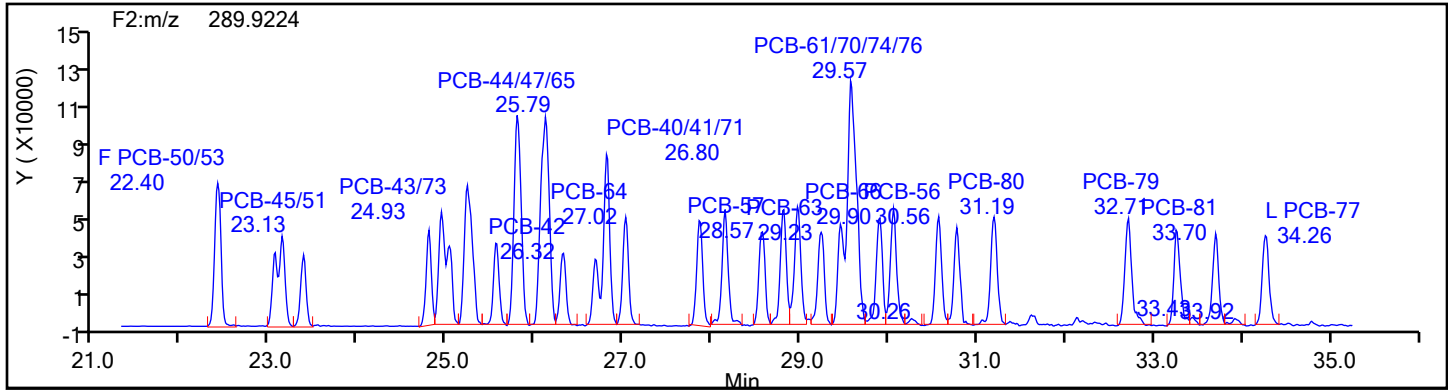
Worklist#: 87130

Sample Line#: 3

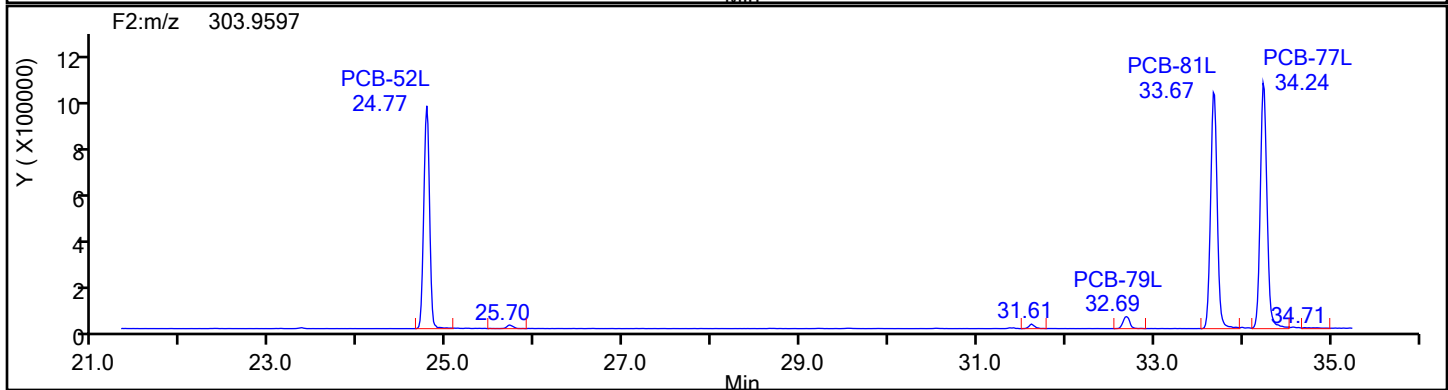
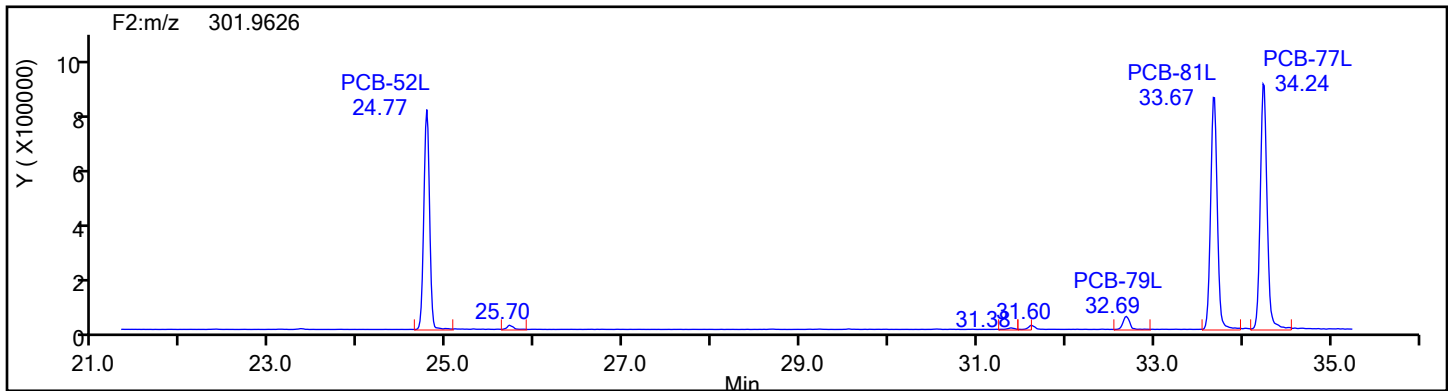
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

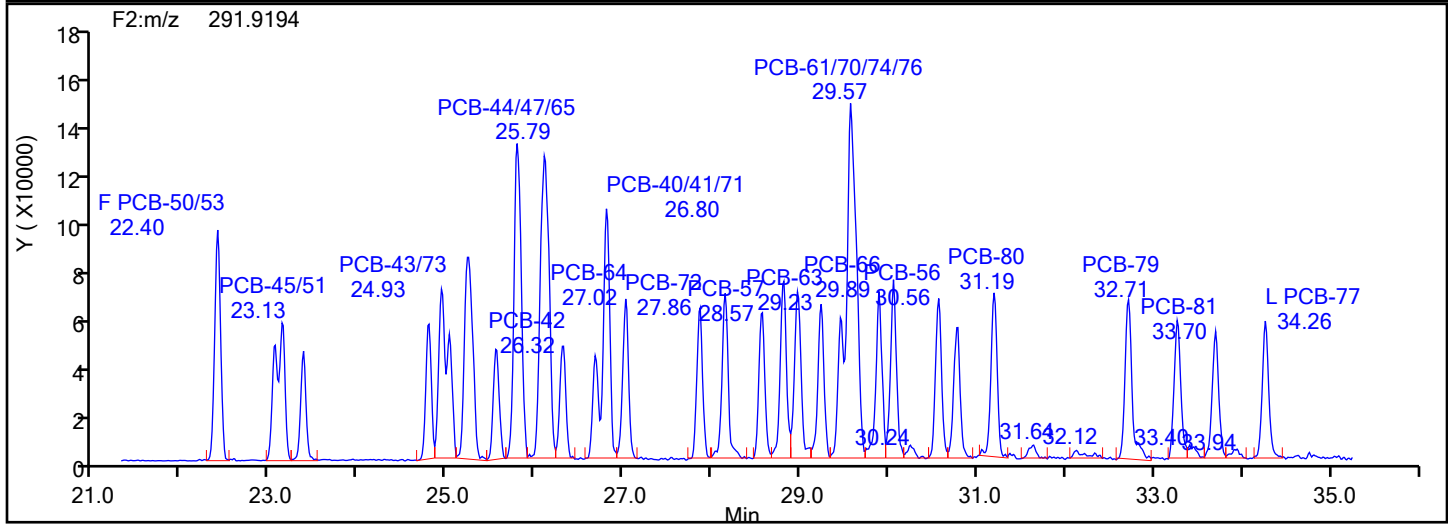
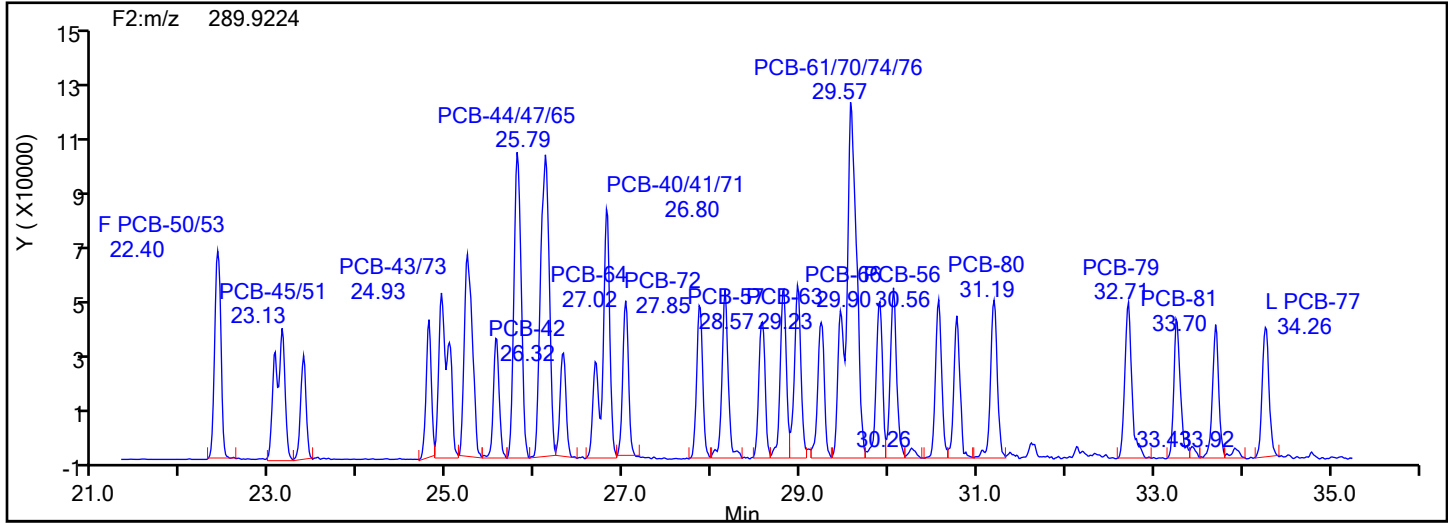
Worklist#: 87130

Sample Line#: 3

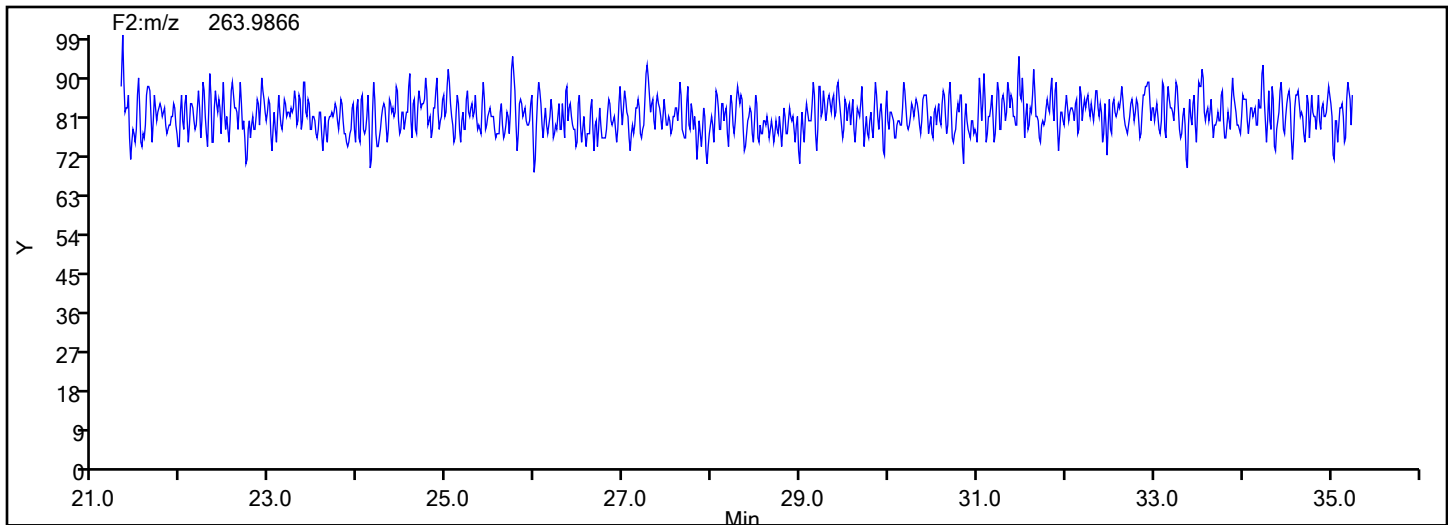
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

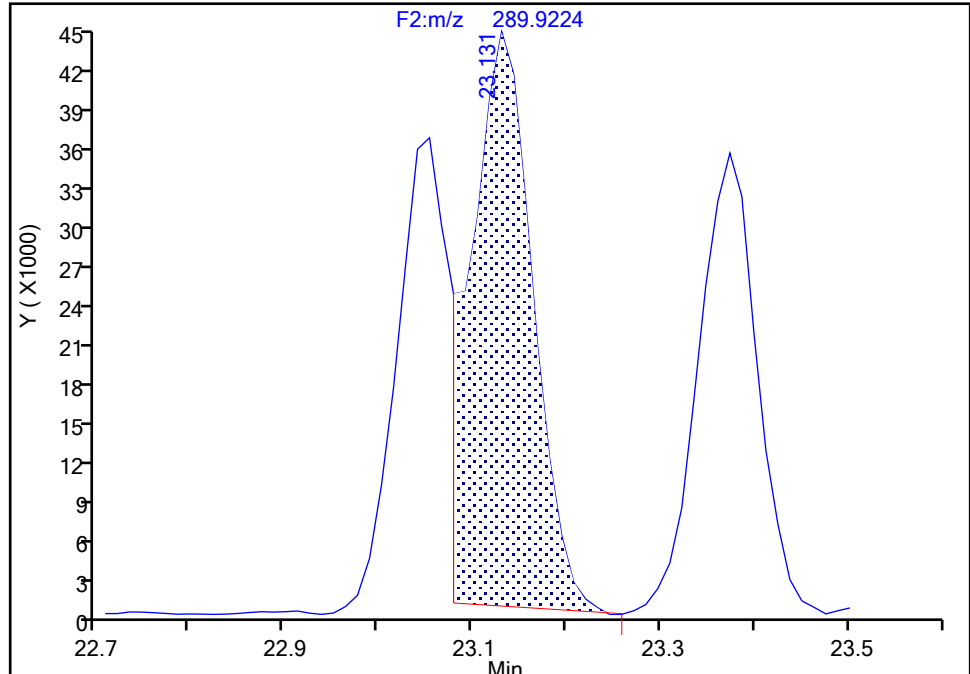
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

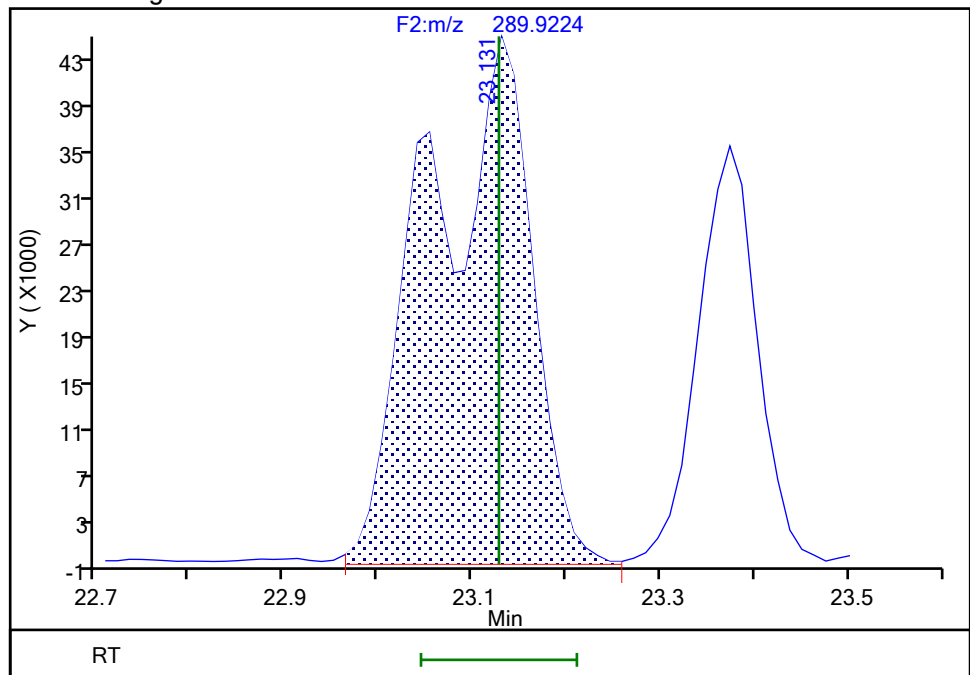
RT: 23.13
Area: 197949
Amount: 6.095820
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 337953
Amount: 9.812546
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

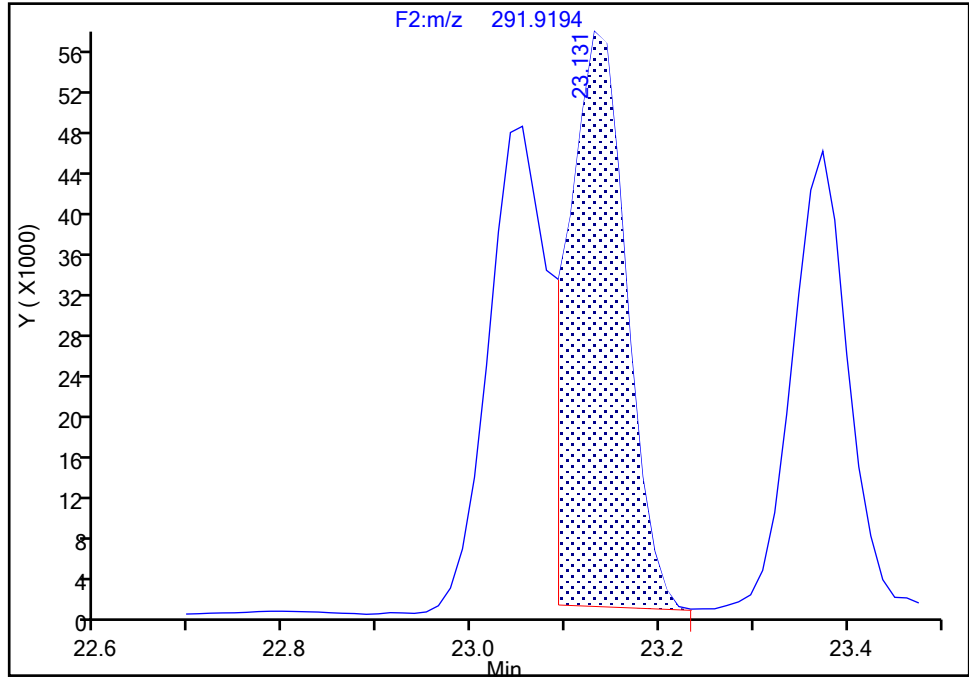
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

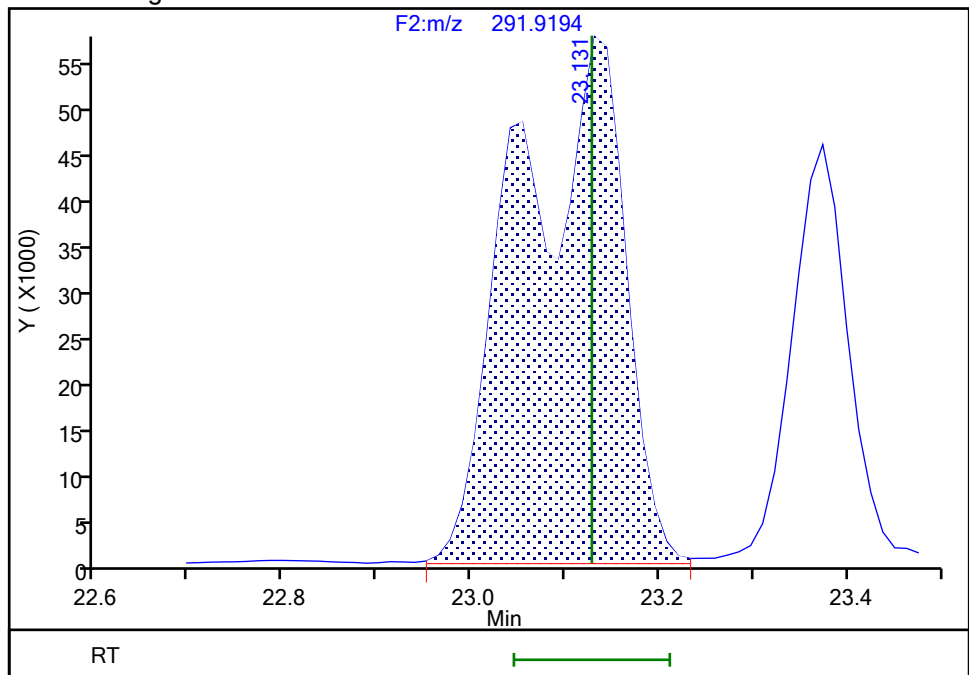
RT: 23.13
Area: 234999
Amount: 6.095820
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 450602
Amount: 9.812546
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1984 of 3050

BASFWC-McIntosh-009985

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

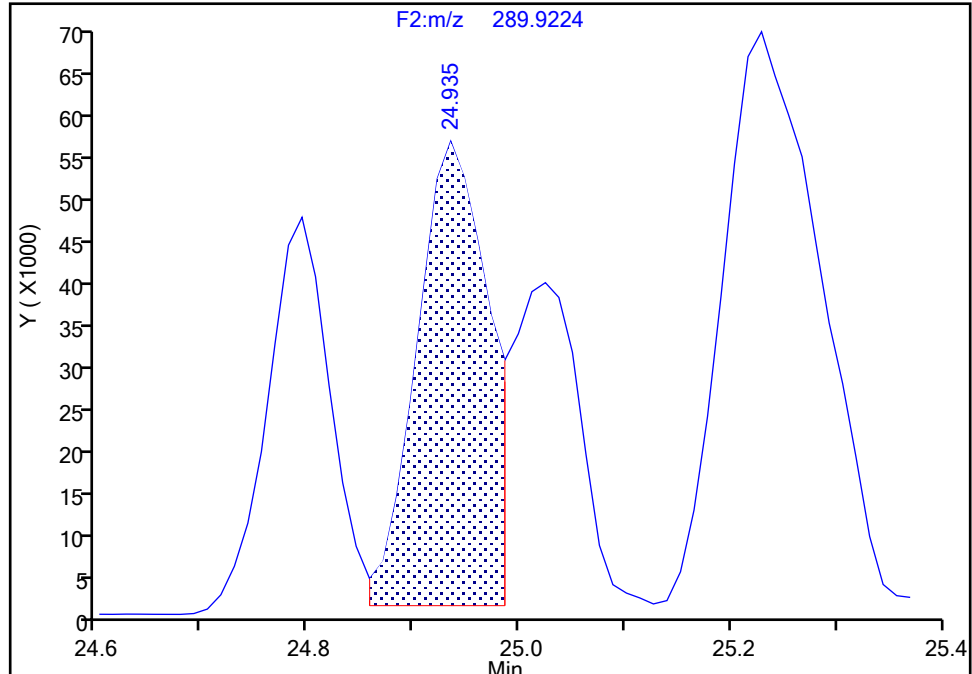
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

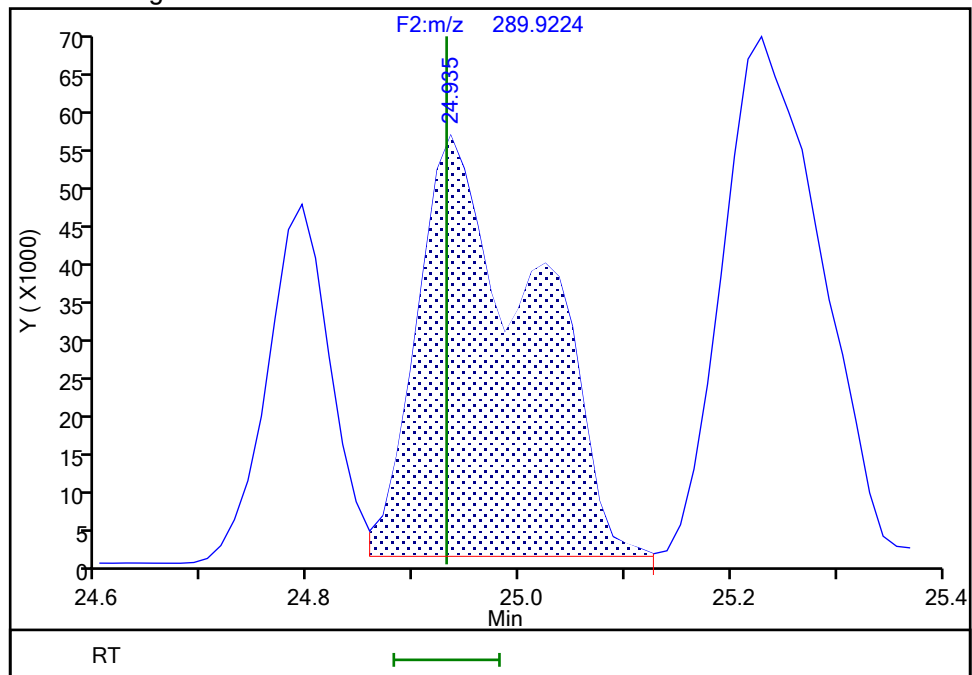
RT: 24.93
Area: 254165
Amount: 6.401675
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 423345
Amount: 9.702556
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

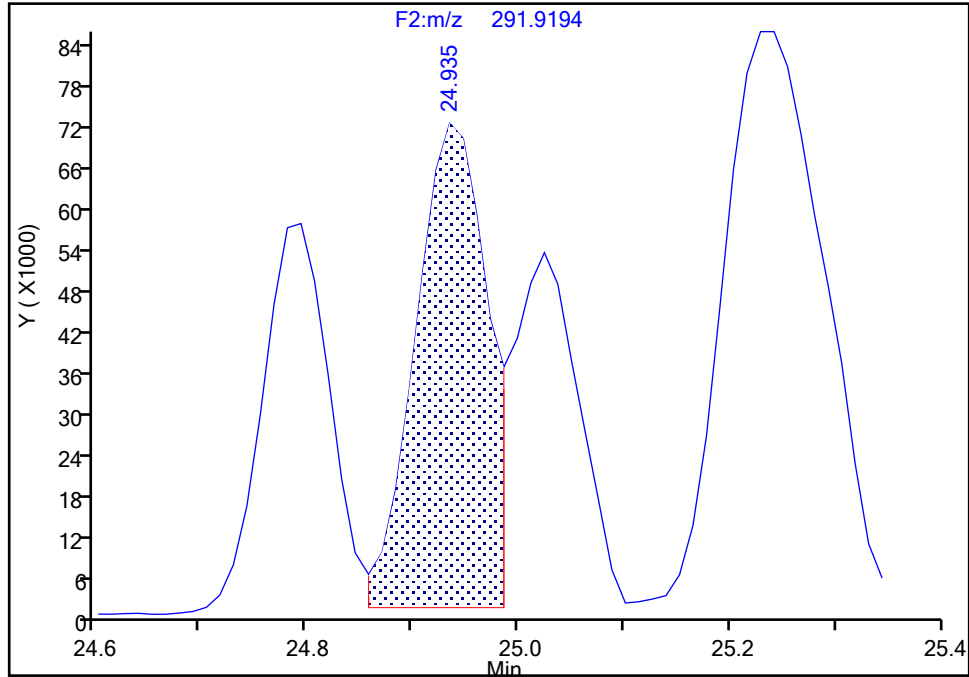
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

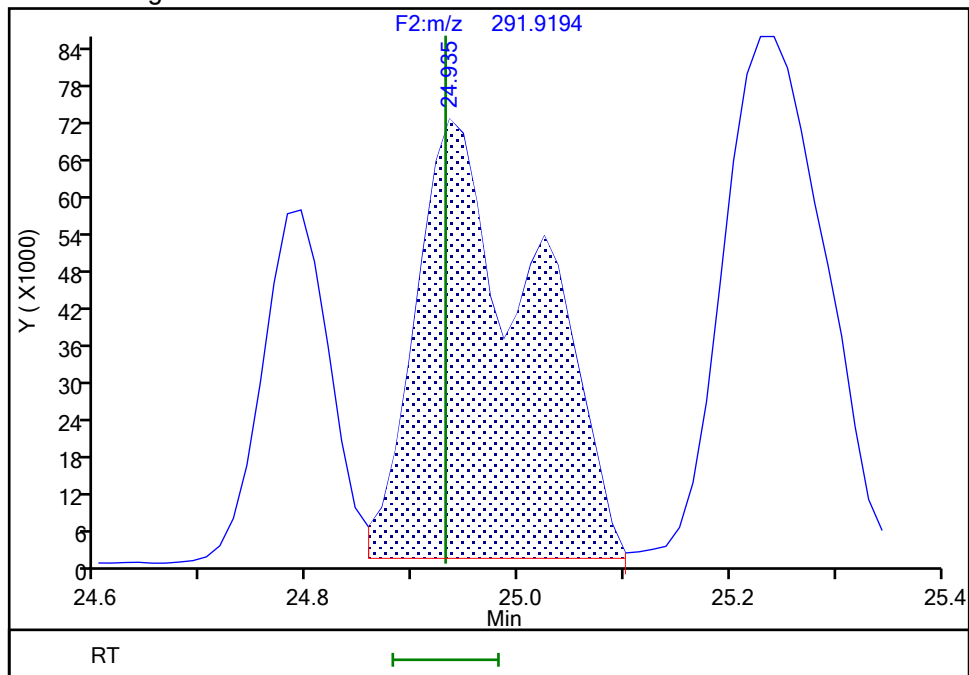
RT: 24.93
Area: 330449
Amount: 6.401675
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 551591
Amount: 9.702556
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1986 of 3050

BASFWC-McIntosh-009987

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

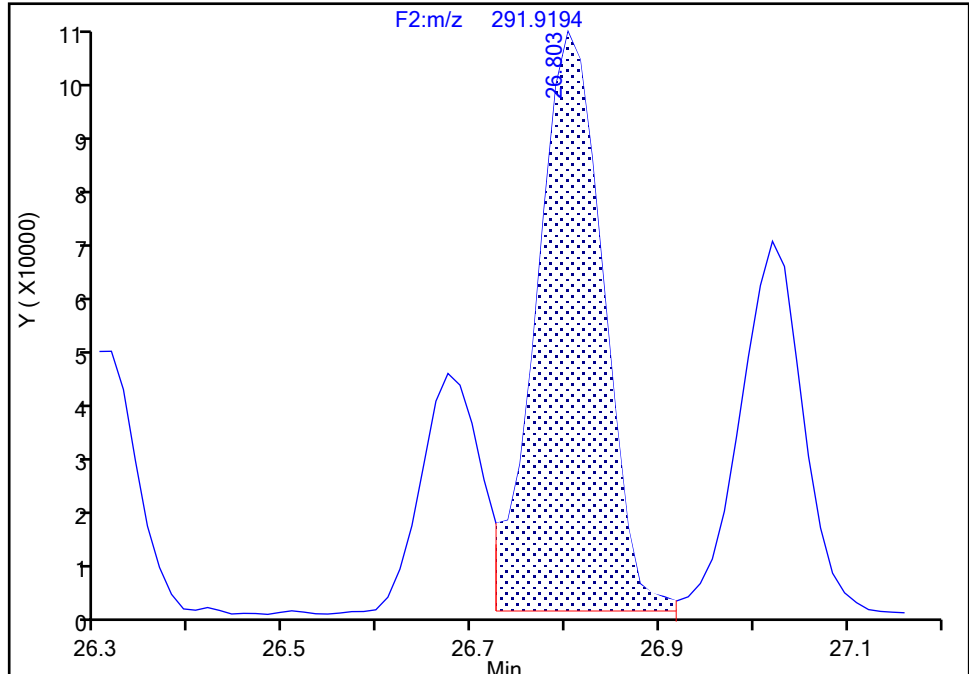
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

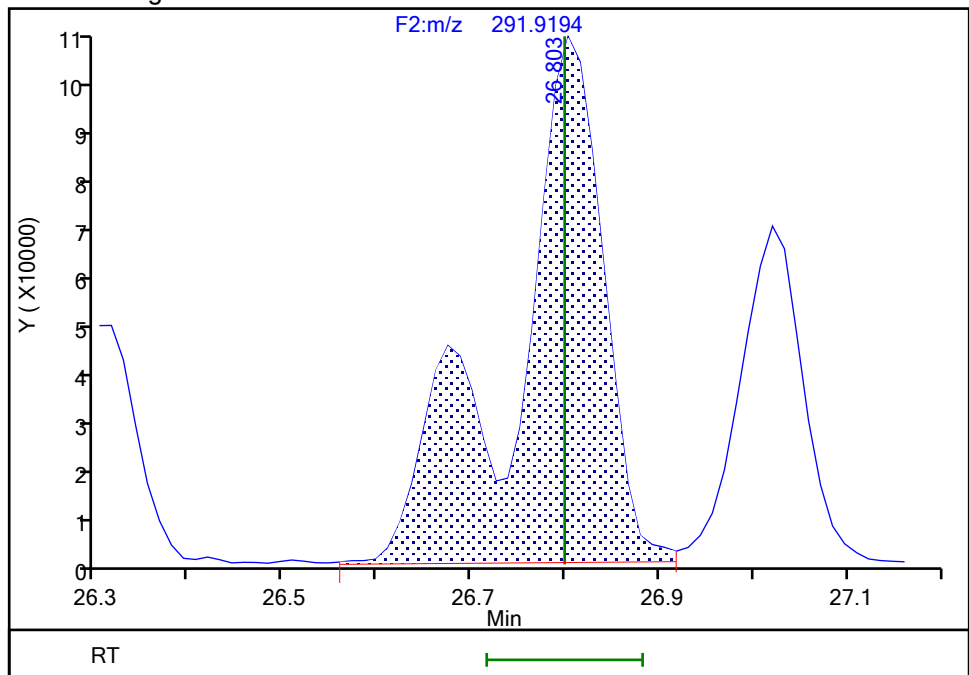
RT: 26.80
Area: 516277
Amount: 11.476659
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 706287
Amount: 14.423267
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

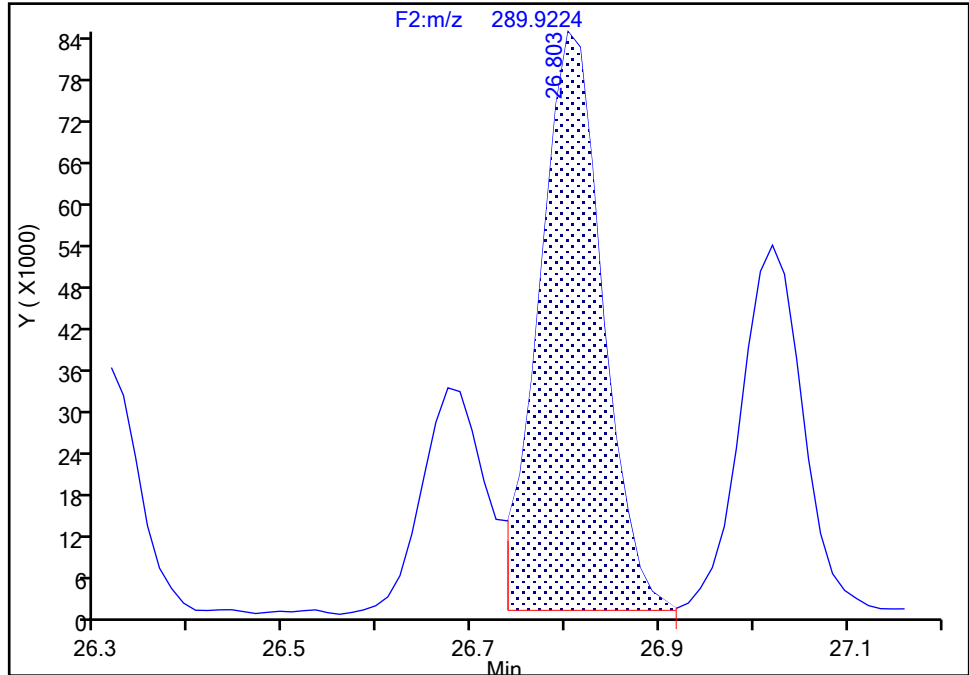
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

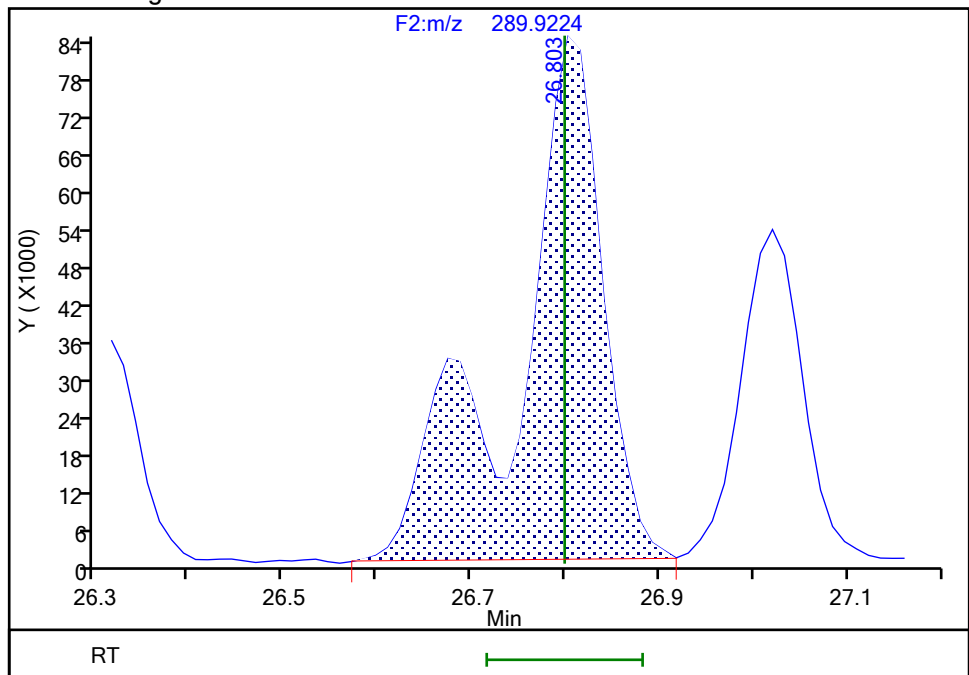
RT: 26.80
Area: 387522
Amount: 11.476659
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 536815
Amount: 14.423267
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1988 of 3050

BASFHWC-McIntosh-009989

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

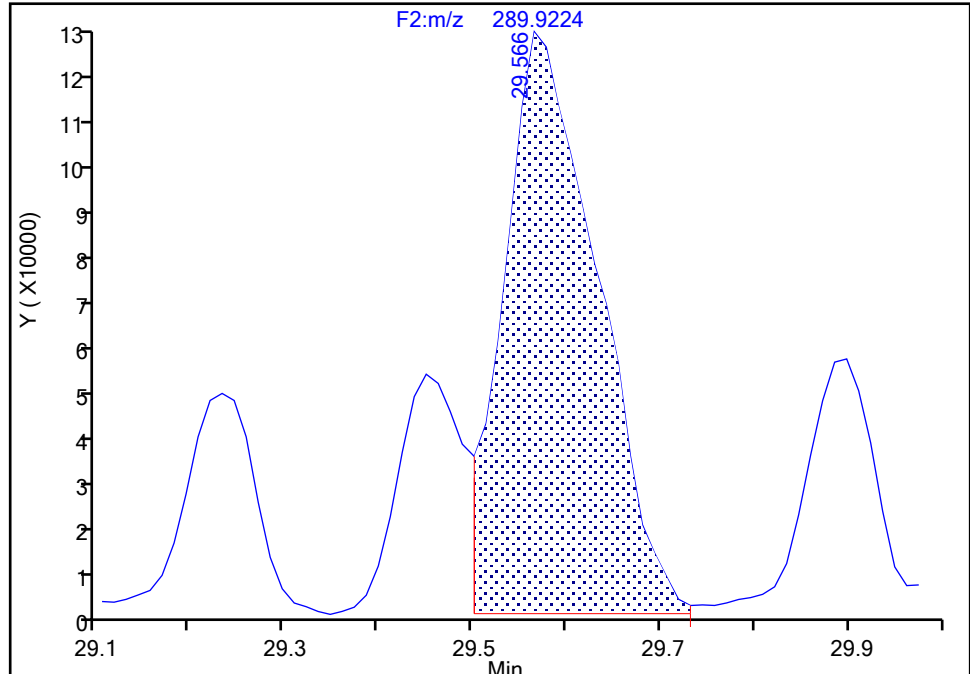
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

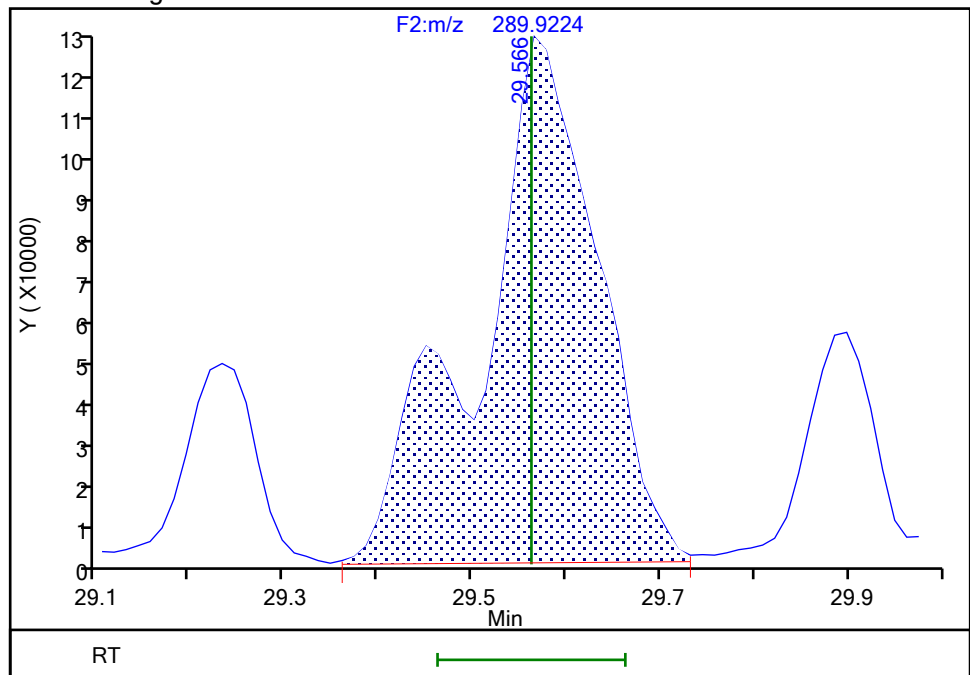
RT: 29.57
Area: 824311
Amount: 18.540425
Amount Units: pg/ul

Processing Integration Results



RT: 29.57
Area: 1056982
Amount: 19.171899
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

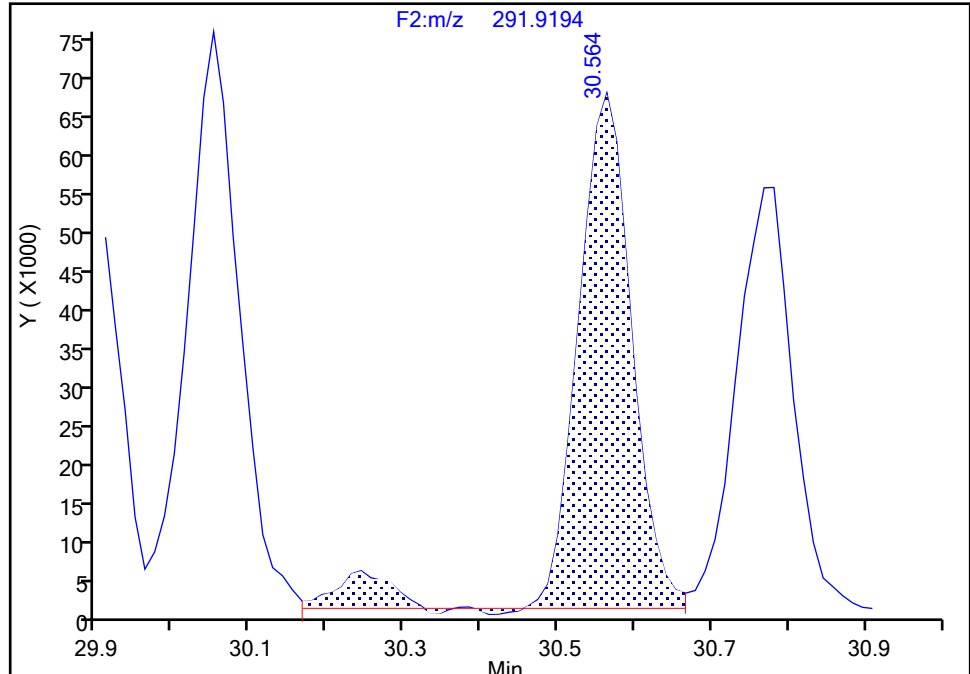
F2(21.81 :35.54)

PCB-56, CAS: 41464-43-1

Signal: 2

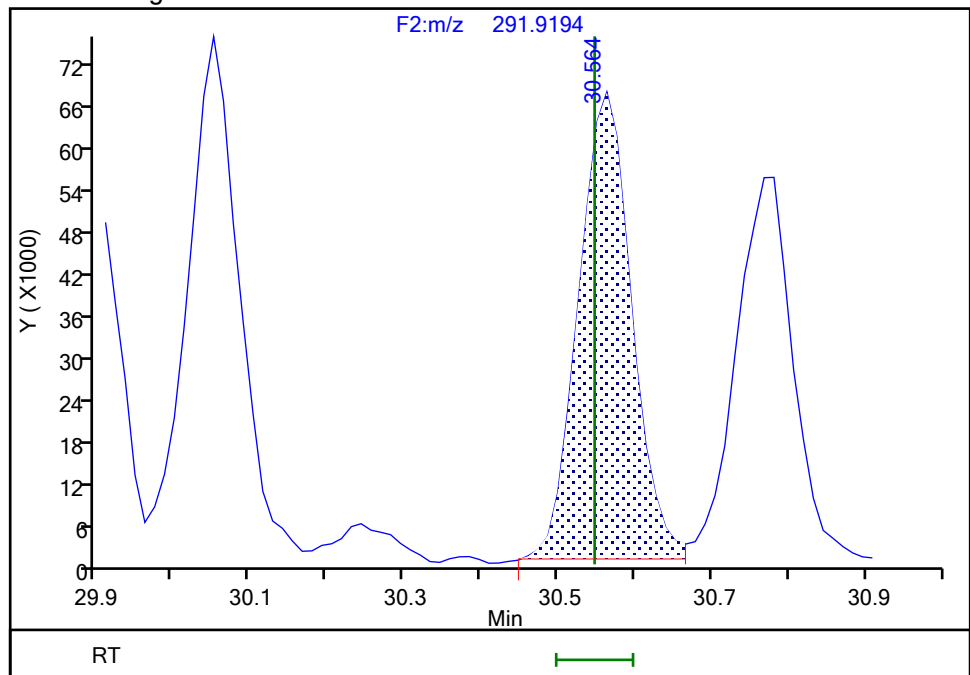
RT: 30.56
Area: 341256
Amount: 4.942673
Amount Units: pg/ul

Processing Integration Results



RT: 30.56
Area: 318235
Amount: 4.811515
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

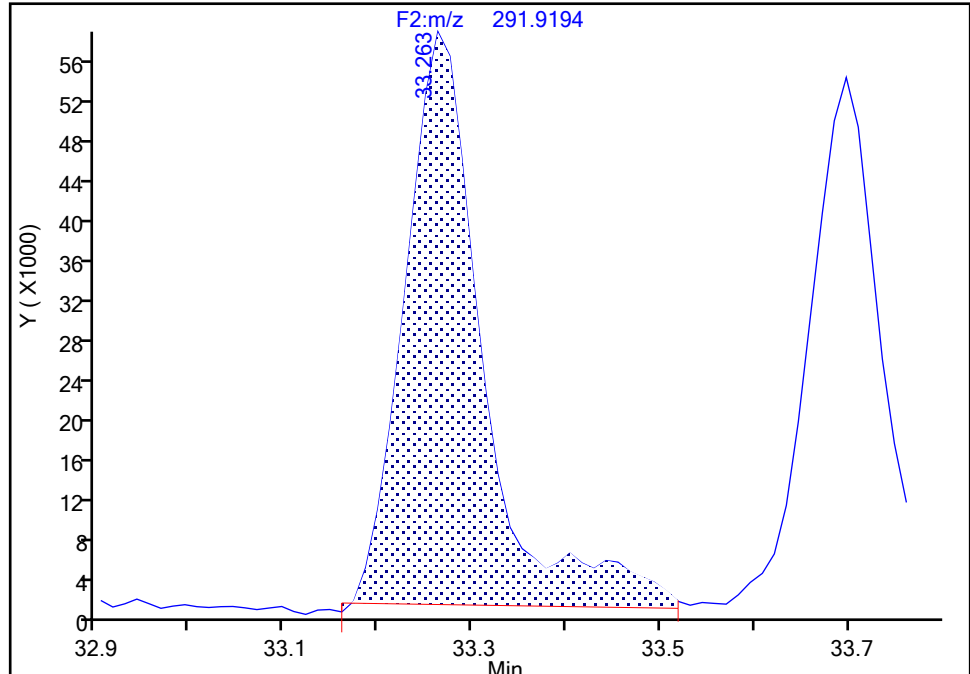
Detector F2(21.81 :35.54)

PCB-78, CAS: 70362-49-1

Signal: 2

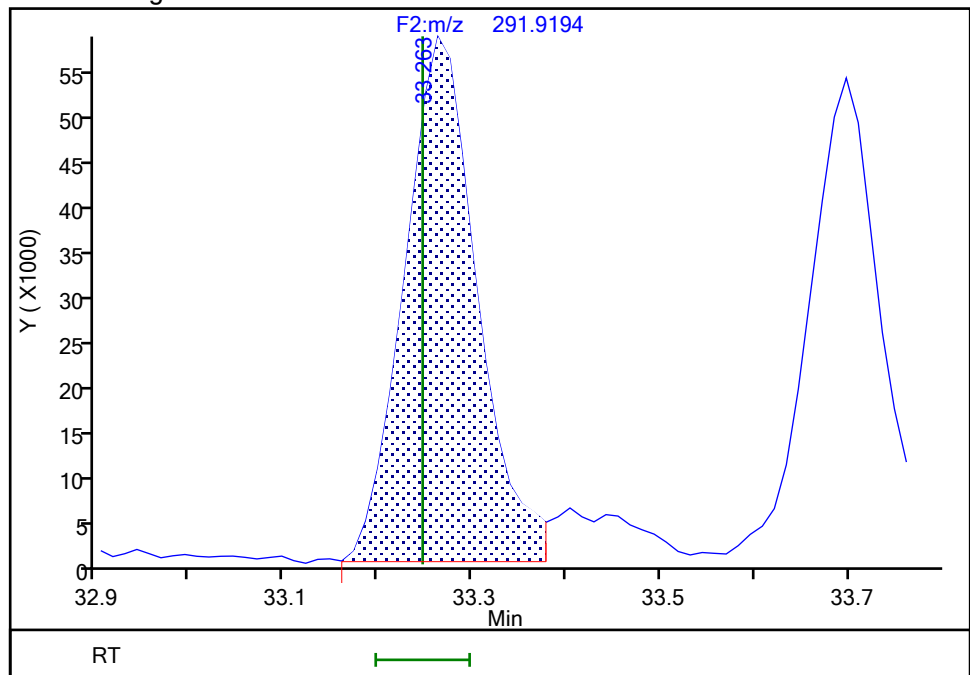
RT: 33.26
Area: 334181
Amount: 4.918346
Amount Units: pg/ul

Processing Integration Results



RT: 33.26
Area: 311315
Amount: 4.884871
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

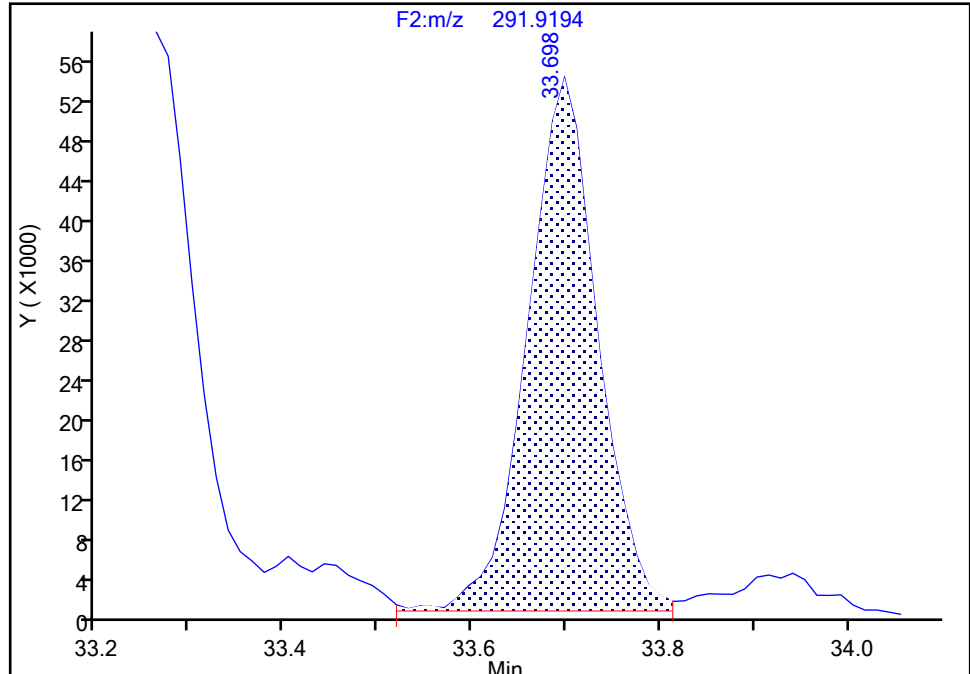
F2(21.81 :35.54)

PCB-81, CAS: 70362-50-4

Signal: 2

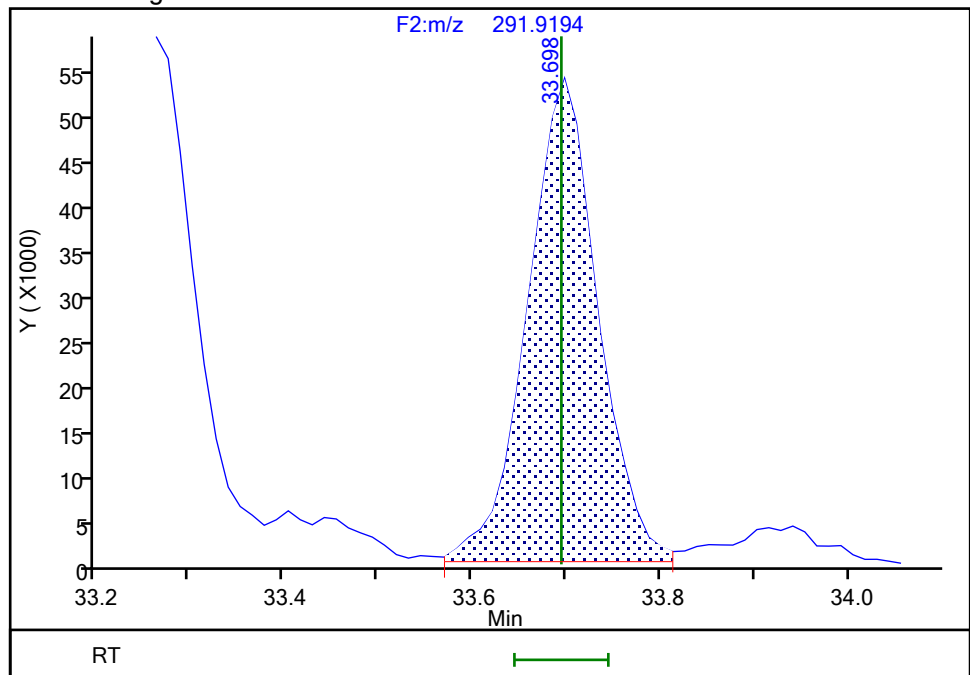
RT: 33.70
Area: 278092
Amount: 4.973199
Amount Units: pg/ul

Processing Integration Results



RT: 33.70
Area: 277706
Amount: 4.914192
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

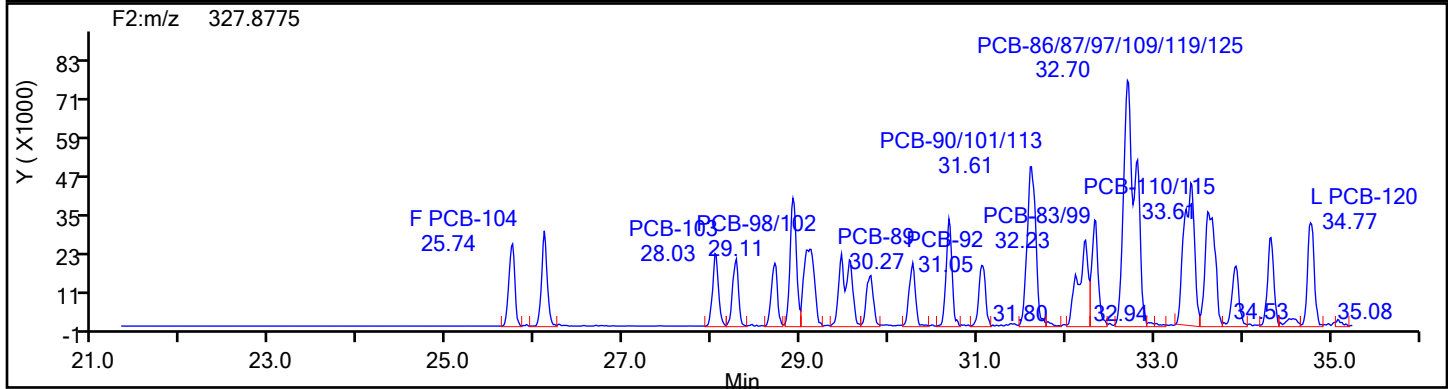
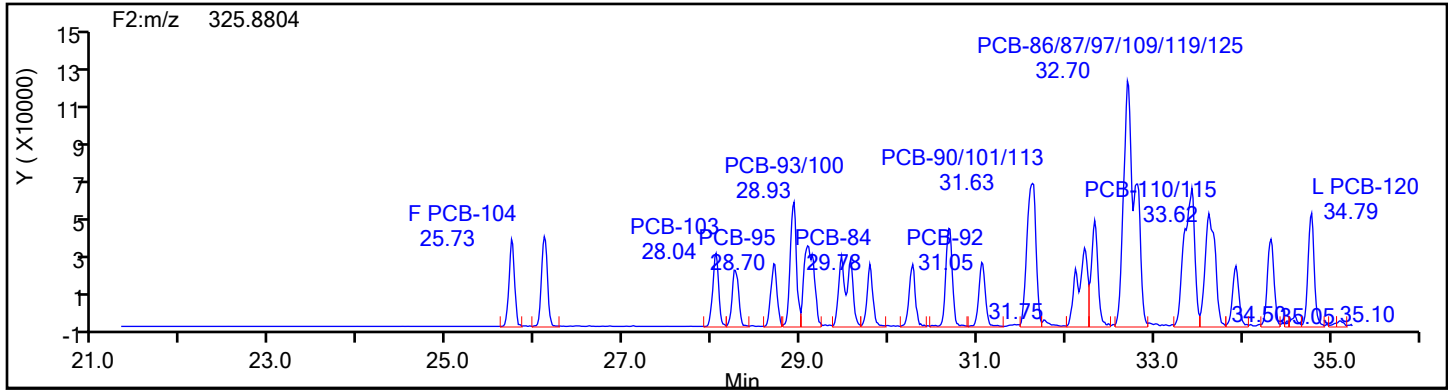
Worklist#: 87130

Sample Line#: 3

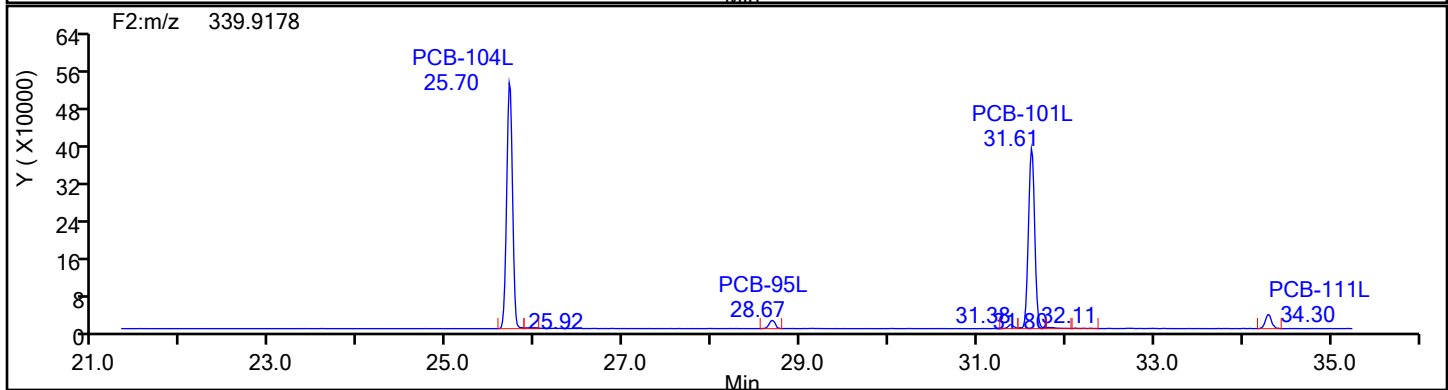
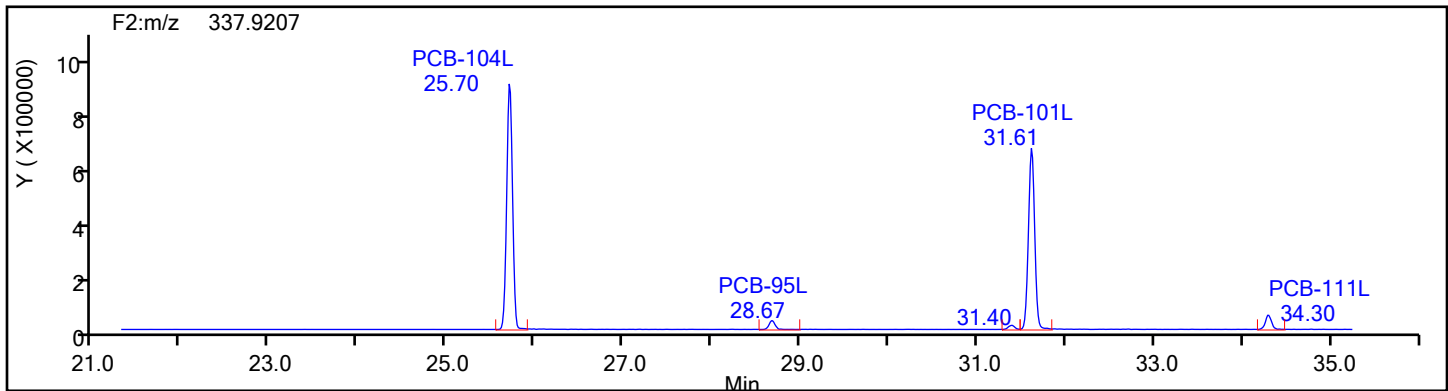
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

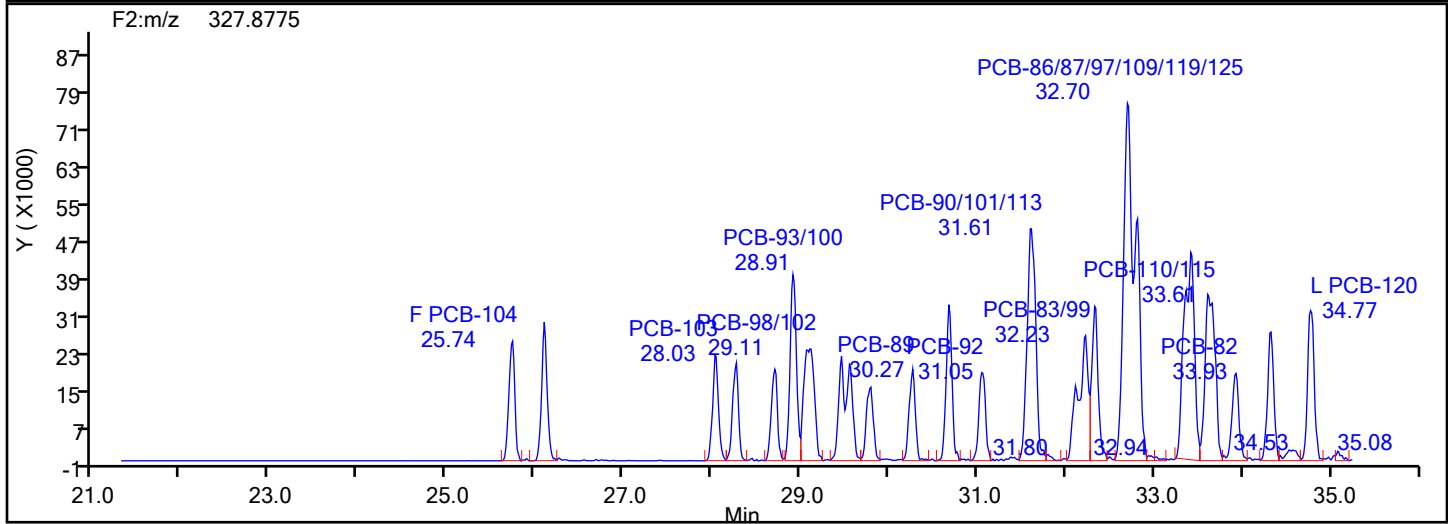
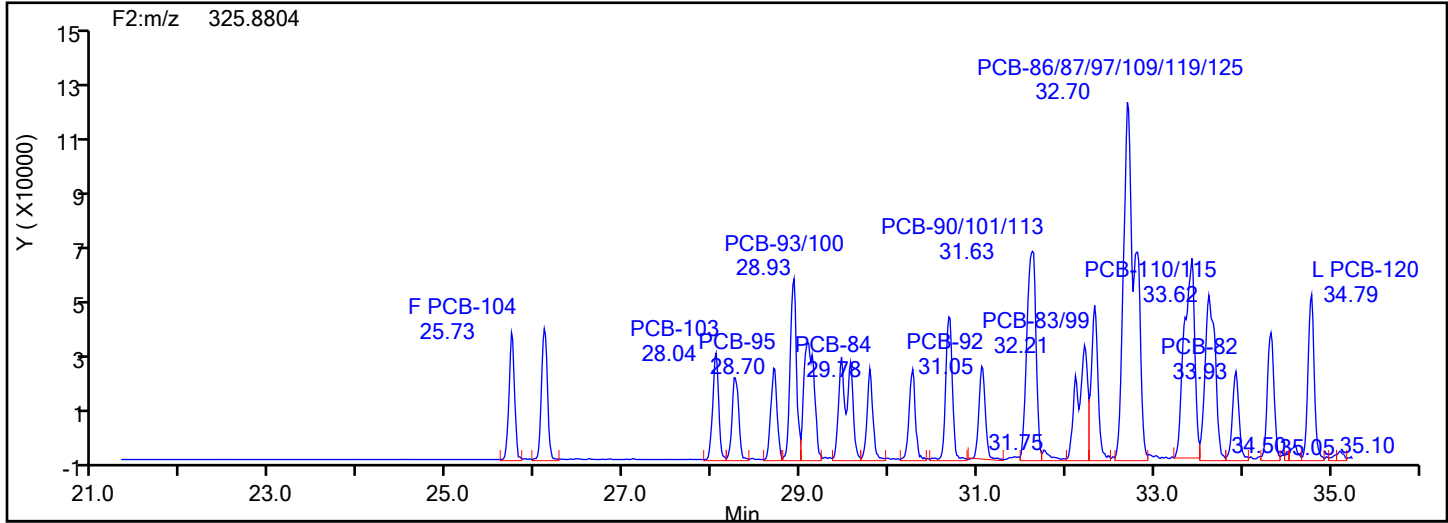
Worklist#: 87130

Sample Line#: 3

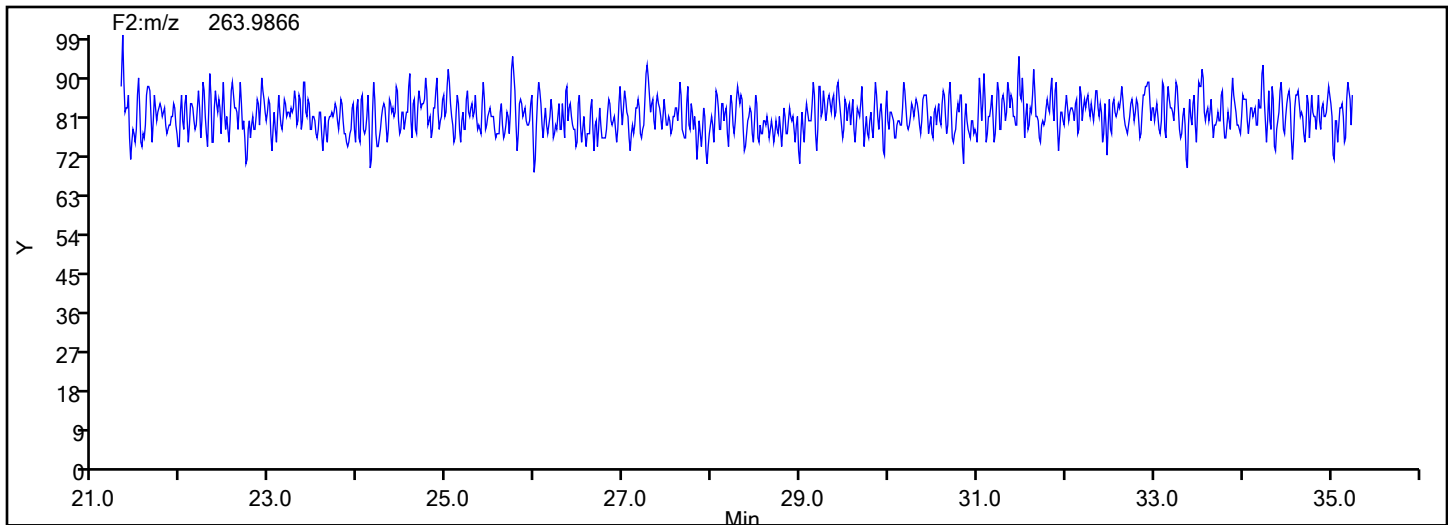
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

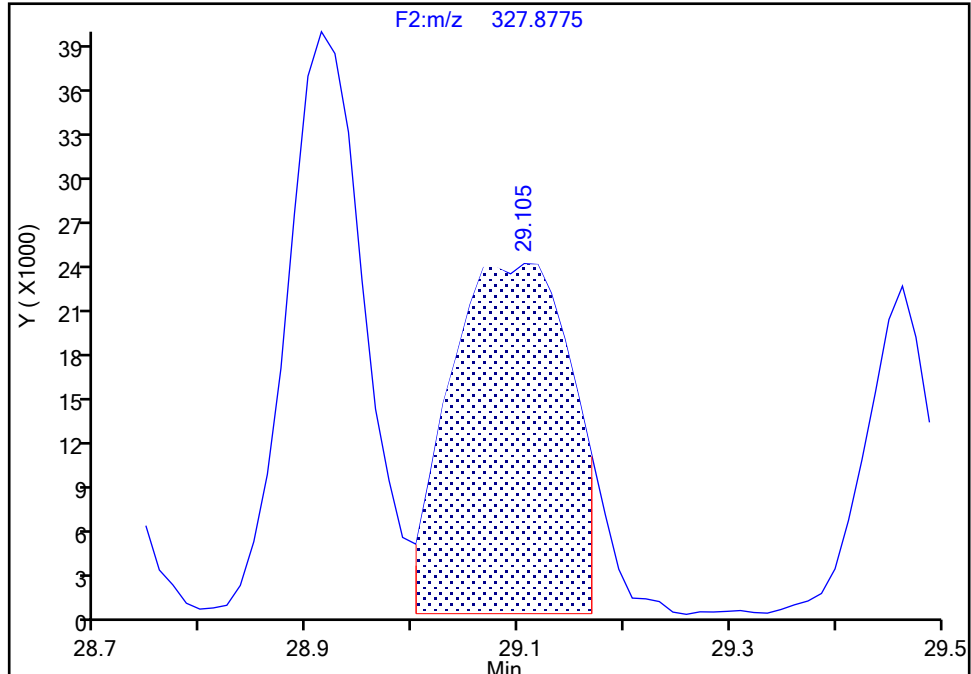
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

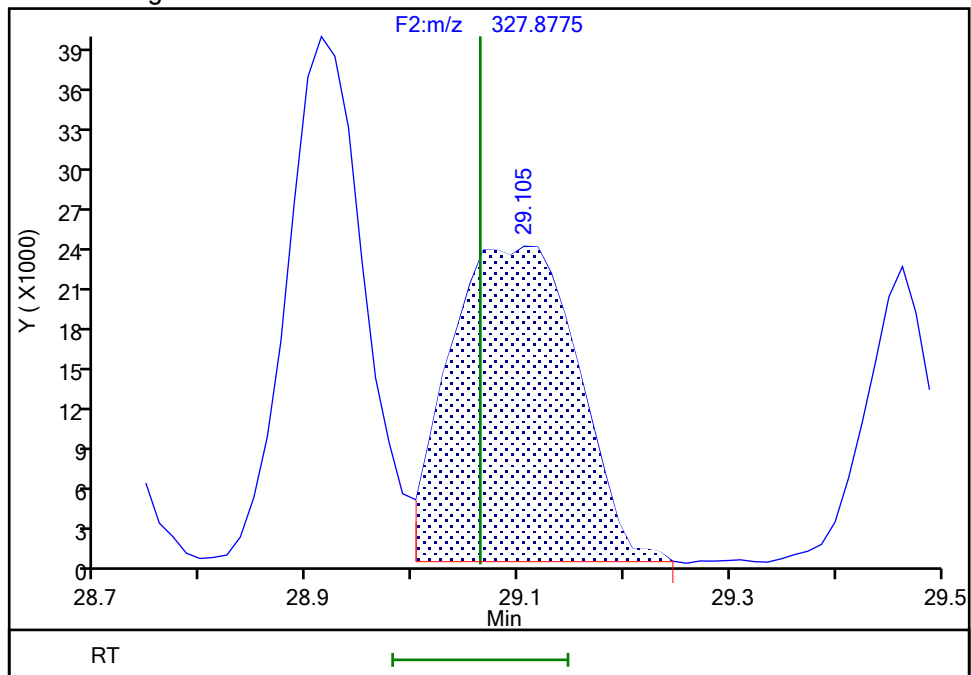
RT: 29.11
Area: 186251
Amount: 9.475668
Amount Units: pg/ul

Processing Integration Results



RT: 29.11
Area: 199350
Amount: 10.104036
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

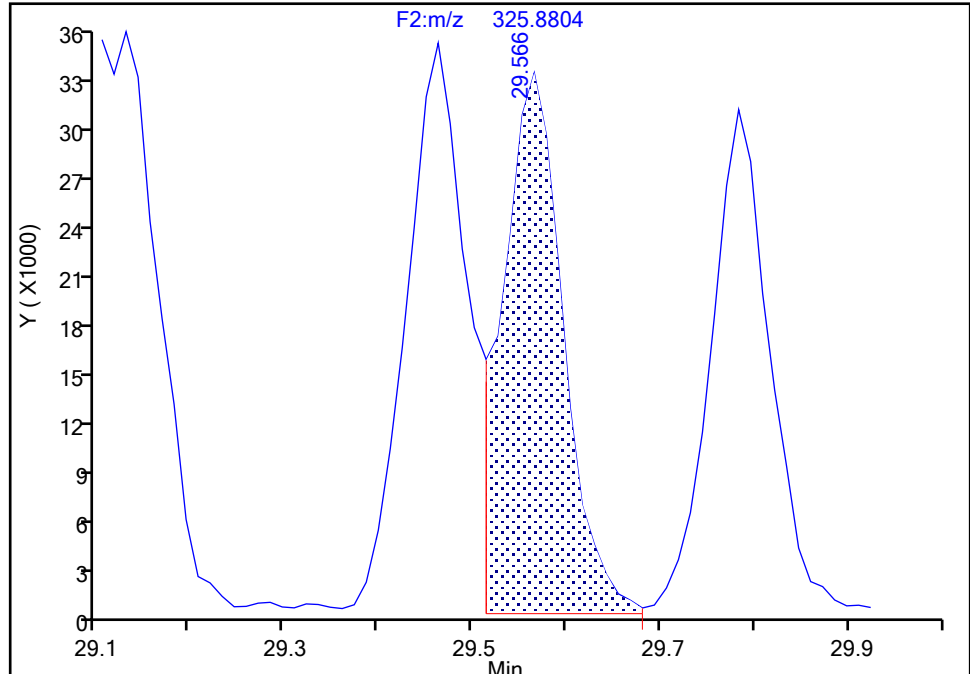
Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 1

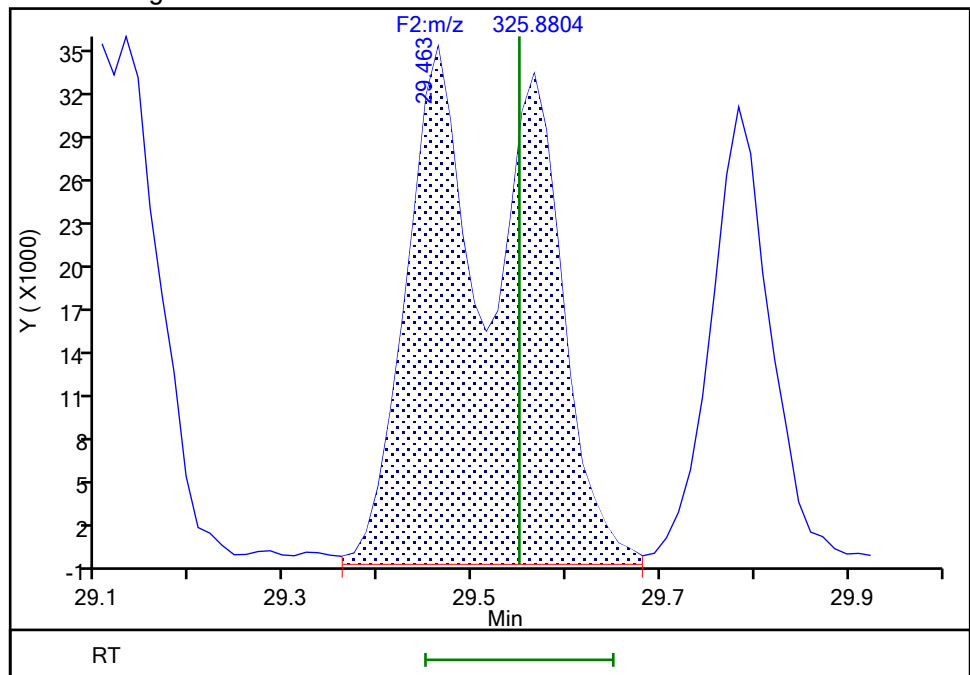
RT: 29.57
Area: 147771
Amount: 5.359548
Amount Units: pg/ul

Processing Integration Results



RT: 29.46
Area: 306322
Amount: 9.844164
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

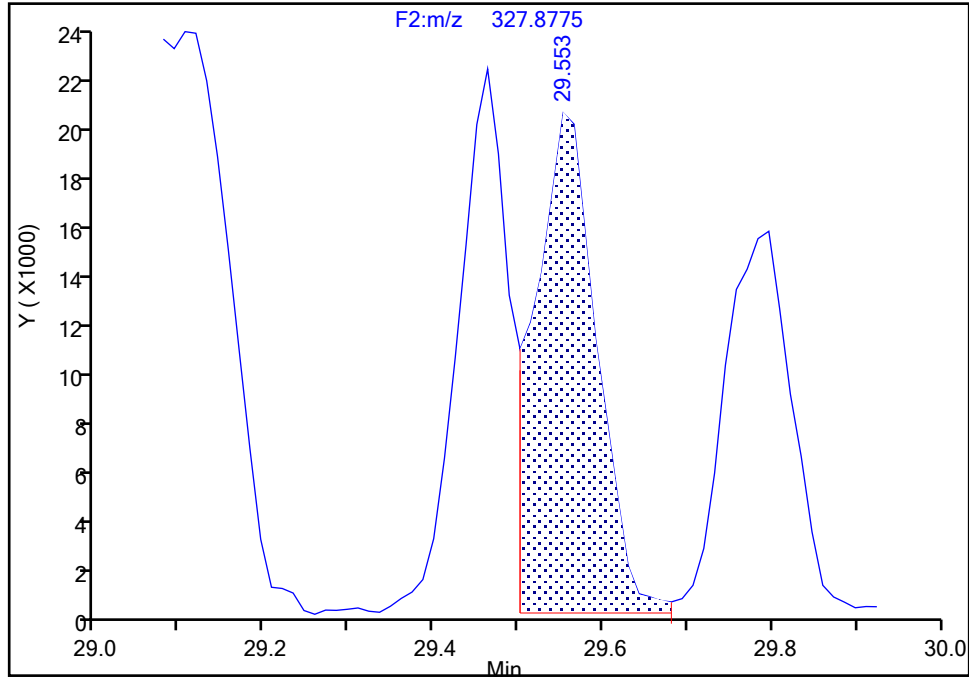
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-88/91, CAS: STL01812

Signal: 2

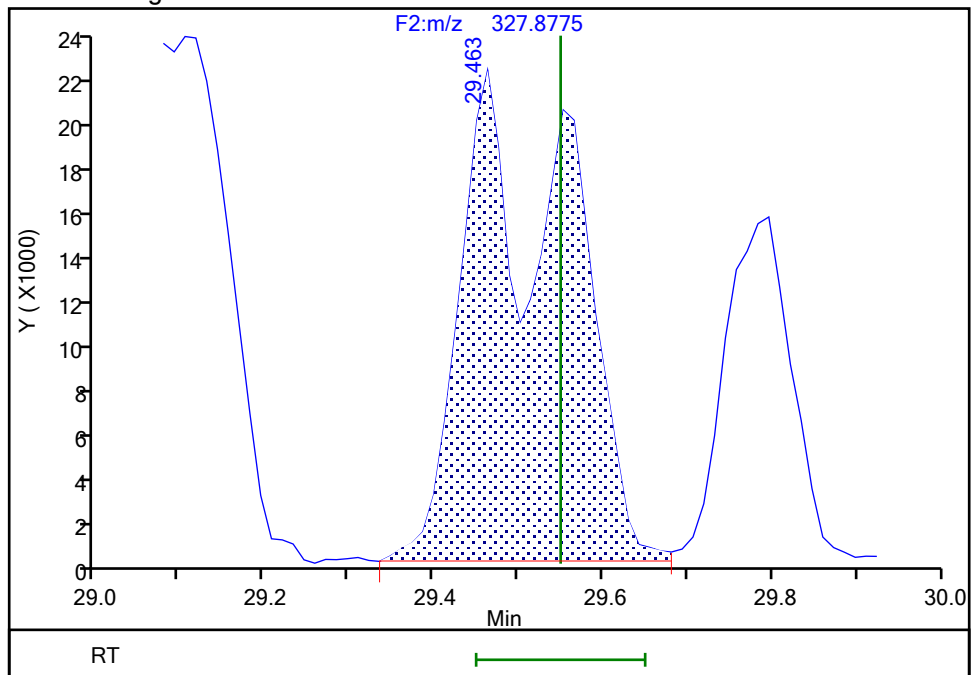
RT: 29.55
Area: 102135
Amount: 5.359548
Amount Units: pg/ul

Processing Integration Results



RT: 29.46
Area: 191203
Amount: 9.844164
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1997 of 3050

BASFWC-McIntosh-009998

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

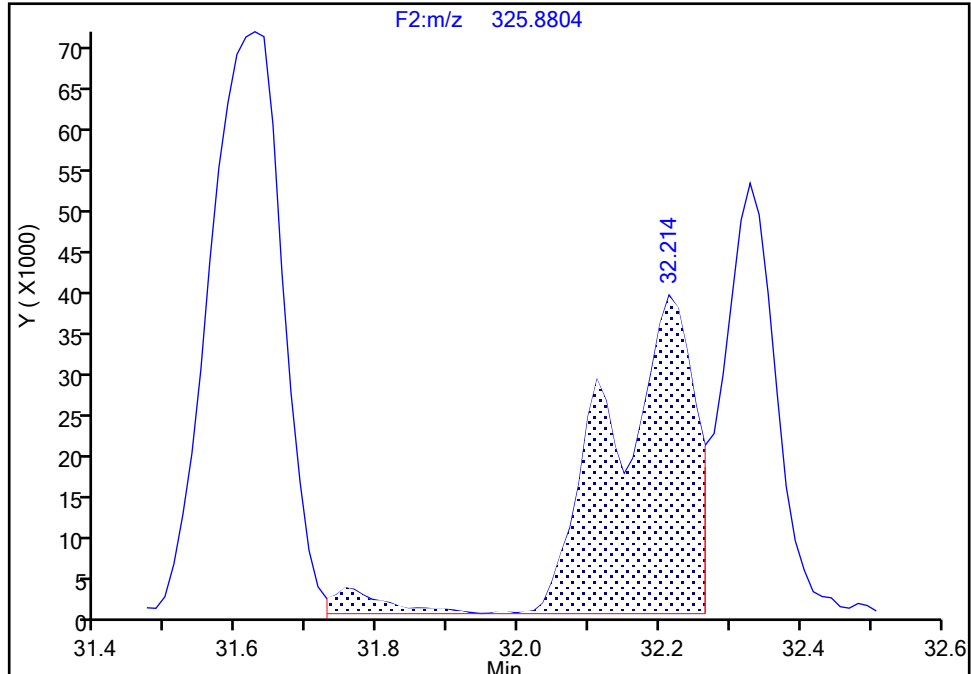
F2(21.81 :35.54)

PCB-83/99, CAS: STL01809

Signal: 1

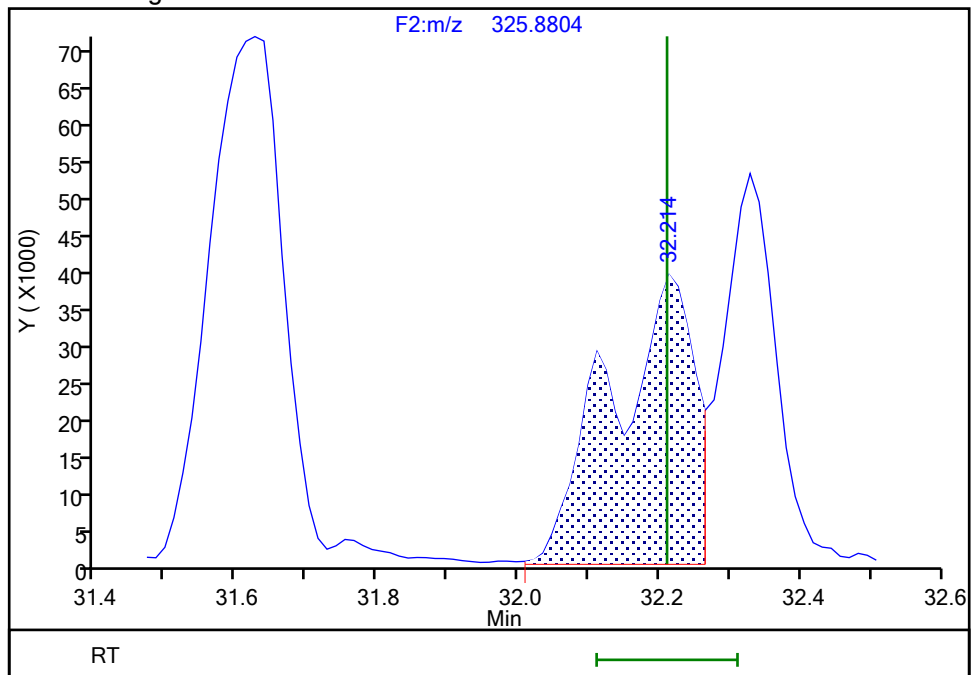
RT: 32.21
Area: 334118
Amount: 9.973734
Amount Units: pg/ul

Processing Integration Results



RT: 32.21
Area: 315858
Amount: 10.000444
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

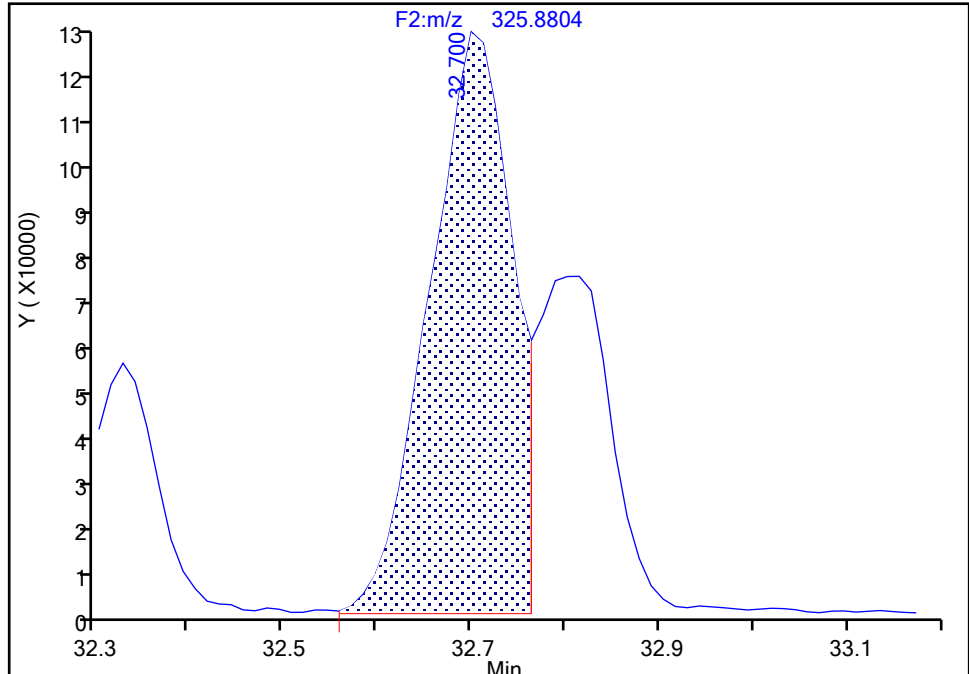
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

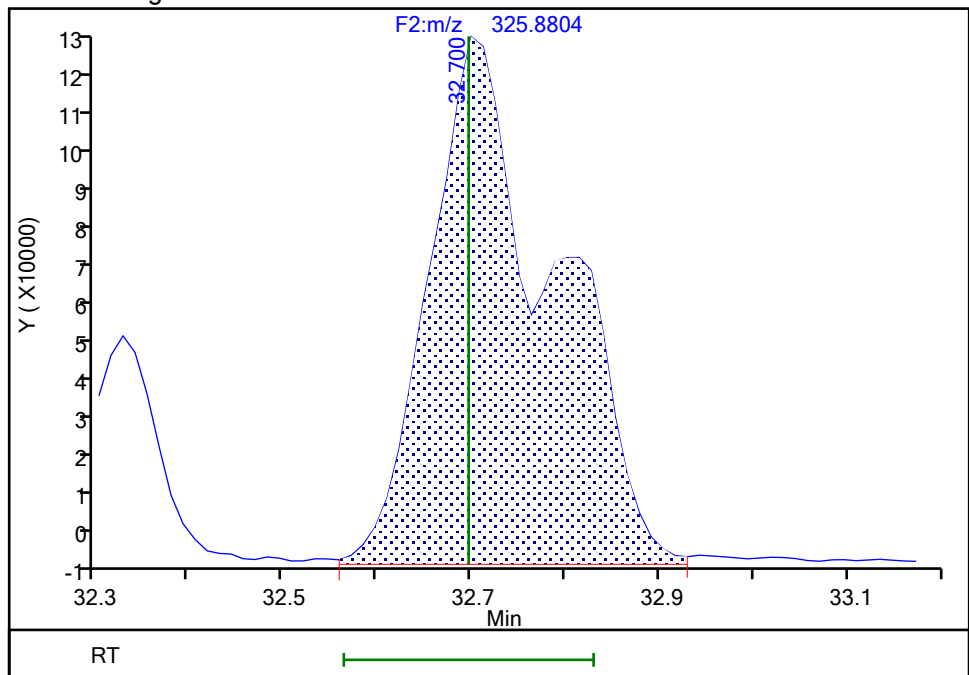
RT: 32.70
Area: 743812
Amount: 19.598860
Amount Units: pg/ul

Processing Integration Results



RT: 32.70
Area: 1133108
Amount: 27.958304
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

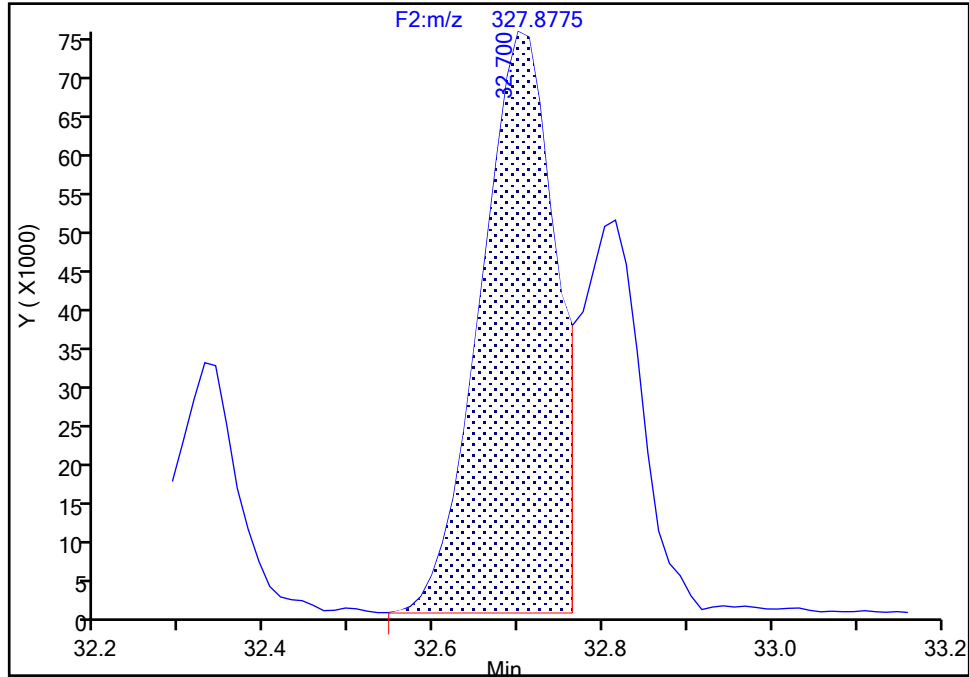
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

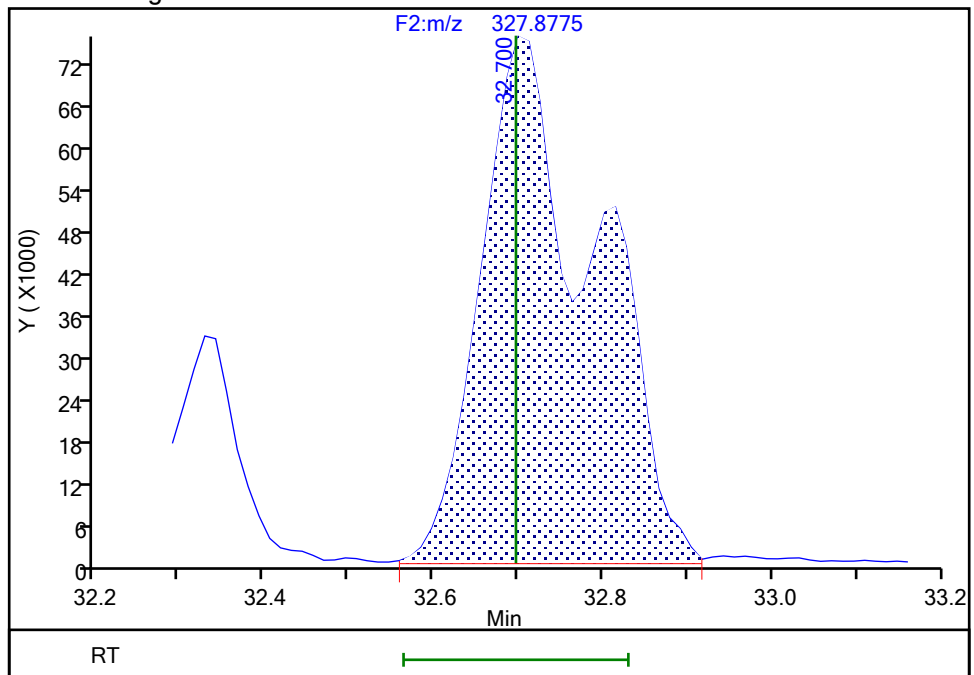
RT: 32.70
Area: 461152
Amount: 19.598860
Amount Units: pg/ul

Processing Integration Results



RT: 32.70
Area: 713670
Amount: 27.958304
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2000 of 3050

BASFWHC-McIntosh-010001

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

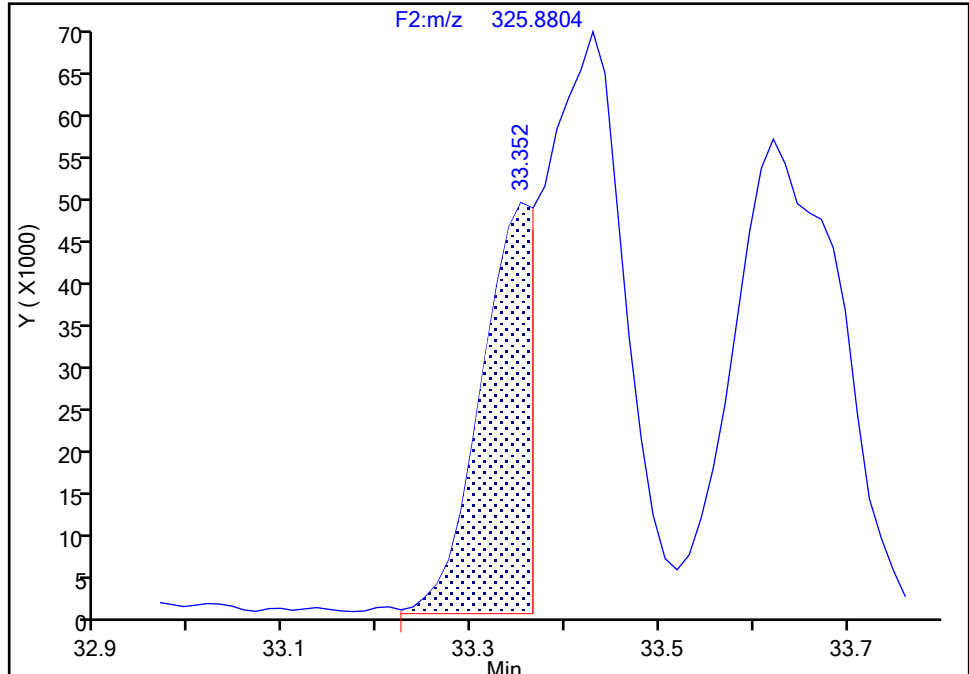
F2(21.81 :35.54)

PCB-85/116/117, CAS: STL01810

Signal: 1

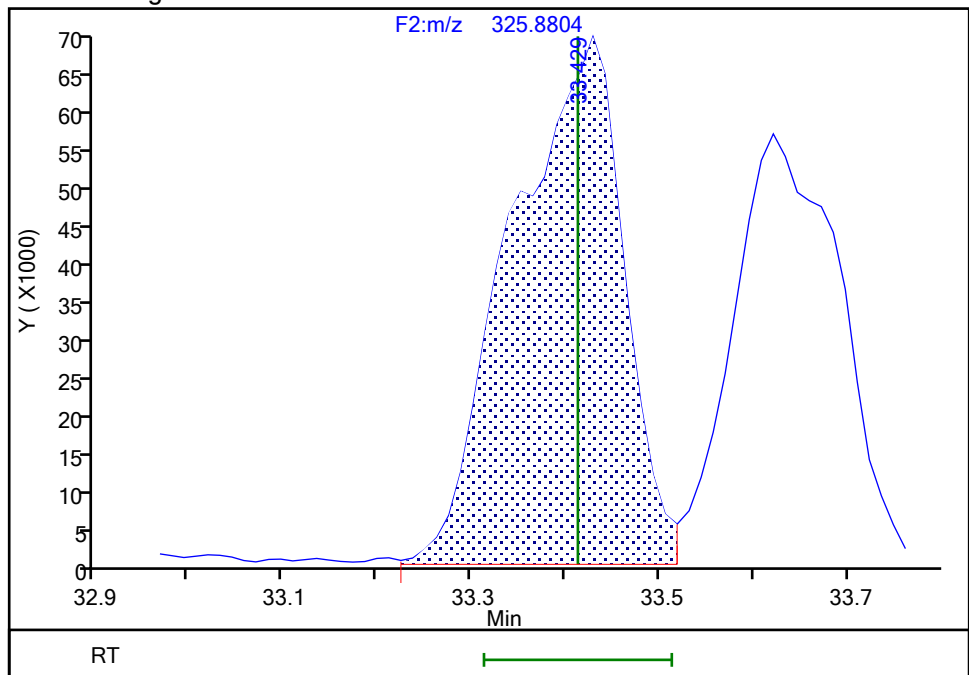
RT: 33.35
Area: 180066
Amount: 5.936423
Amount Units: pg/ul

Processing Integration Results



RT: 33.43
Area: 572951
Amount: 14.293951
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

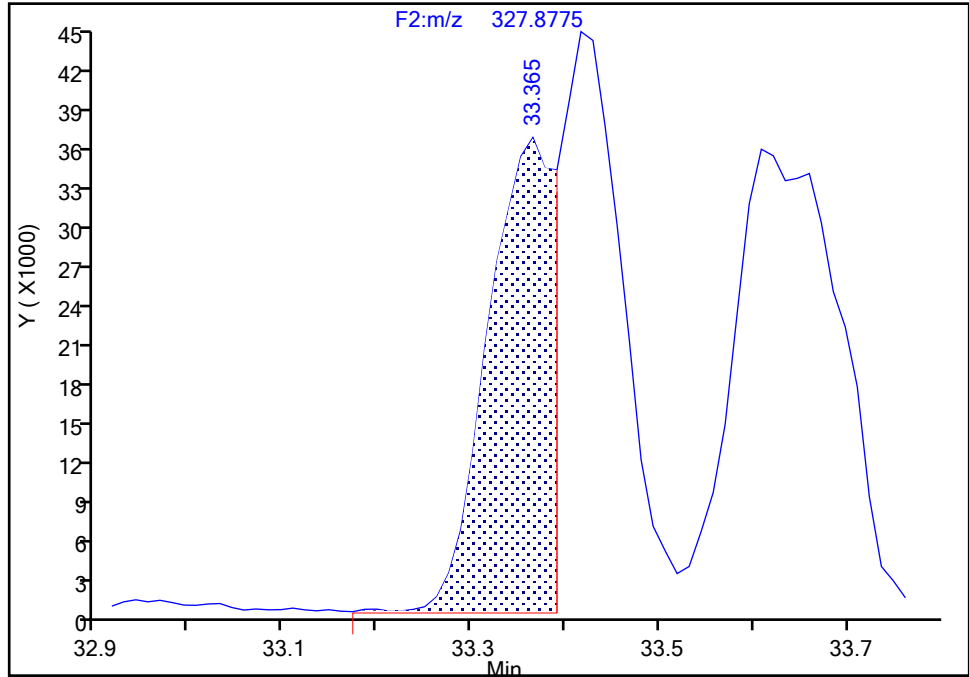
F2(21.81 :35.54)

PCB-85/116/117, CAS: STL01810

Signal: 2

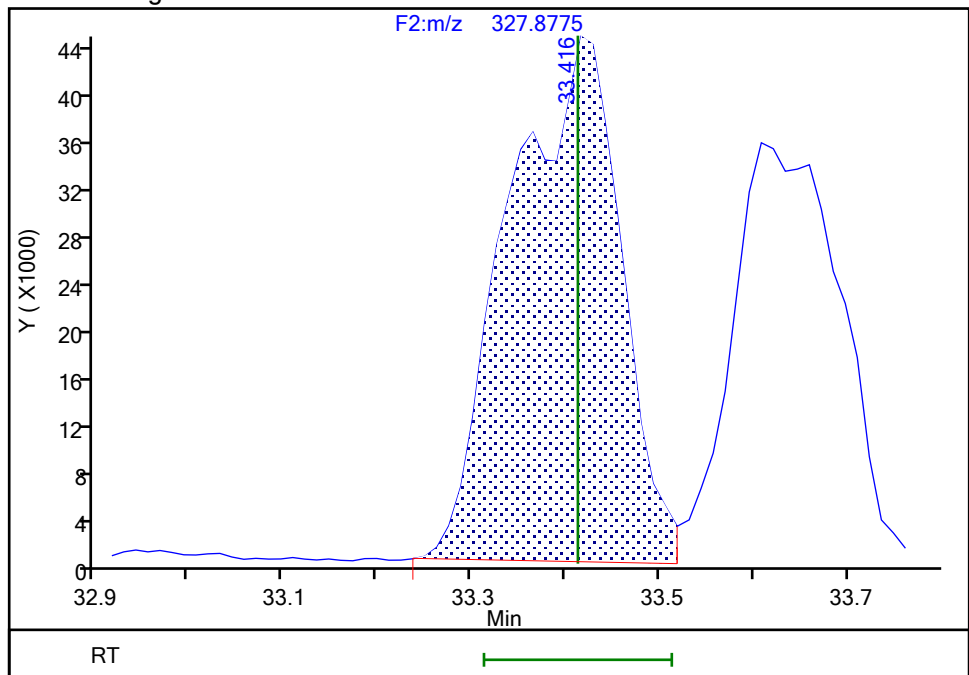
RT: 33.37
Area: 172825
Amount: 5.936423
Amount Units: pg/ul

Processing Integration Results



RT: 33.42
Area: 365388
Amount: 14.293951
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2002 of 3050

BASFWC-McIntosh-010003

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

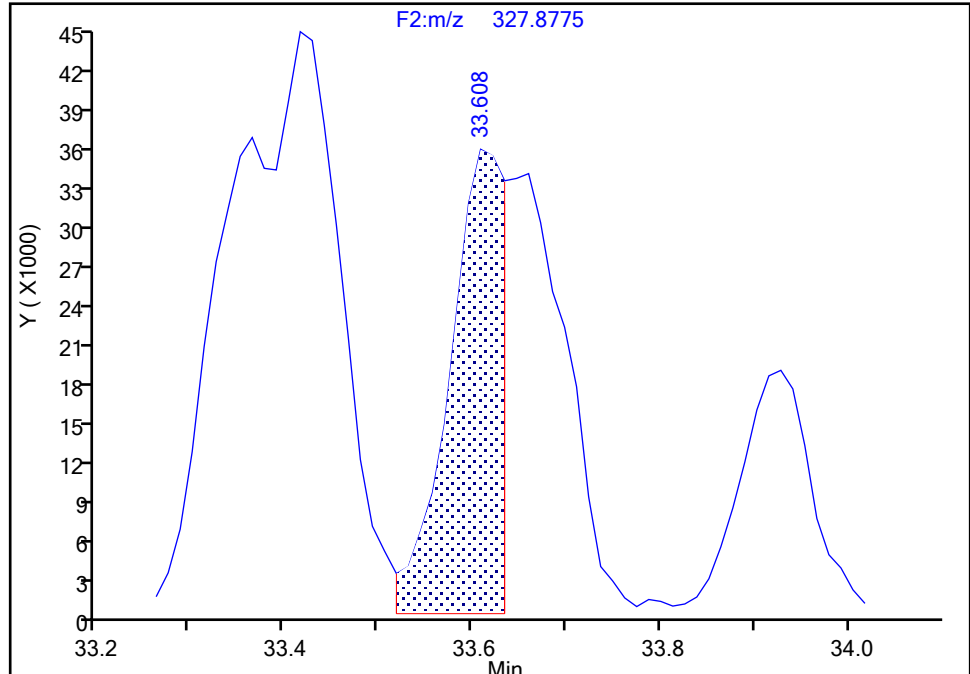
F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

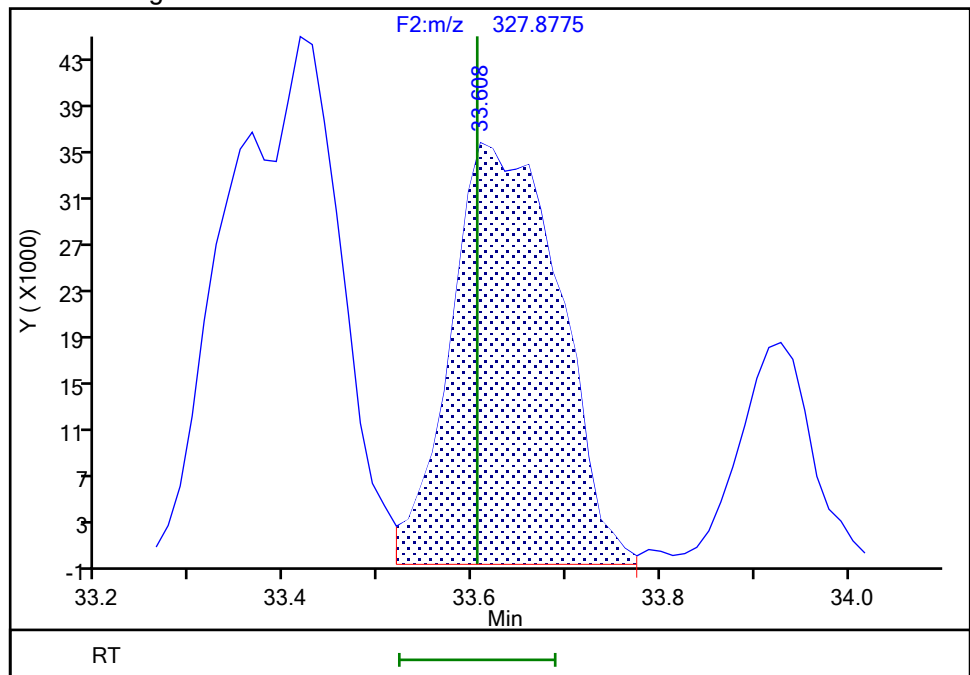
RT: 33.61
Area: 135008
Amount: 7.549598
Amount Units: pg/ul

Processing Integration Results



RT: 33.61
Area: 283256
Amount: 9.765207
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

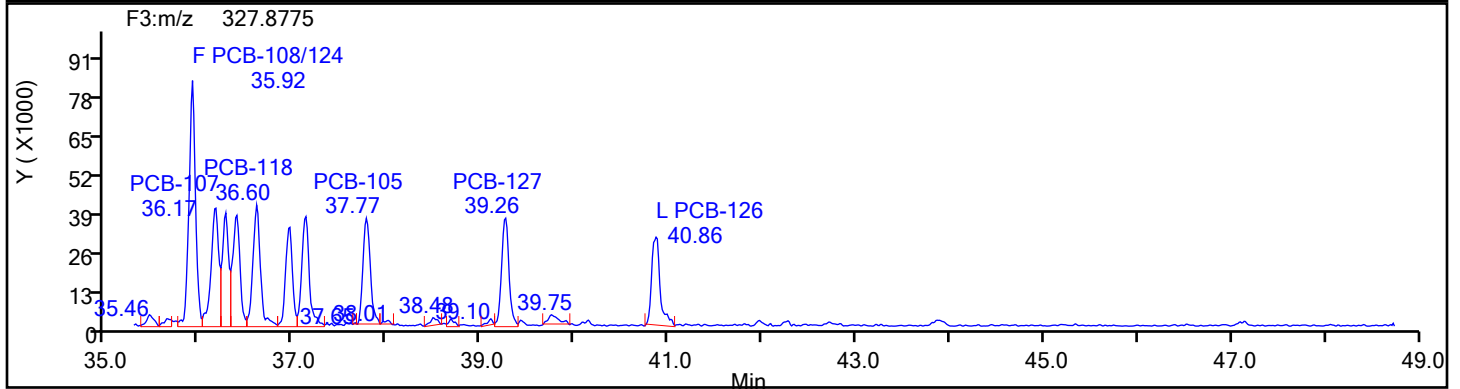
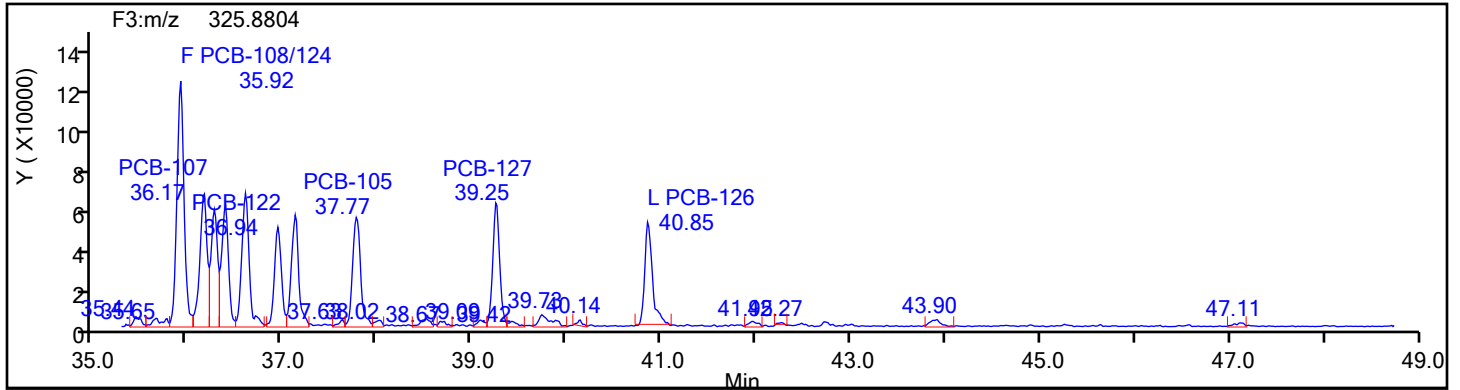
Worklist#: 87130

Sample Line#: 3

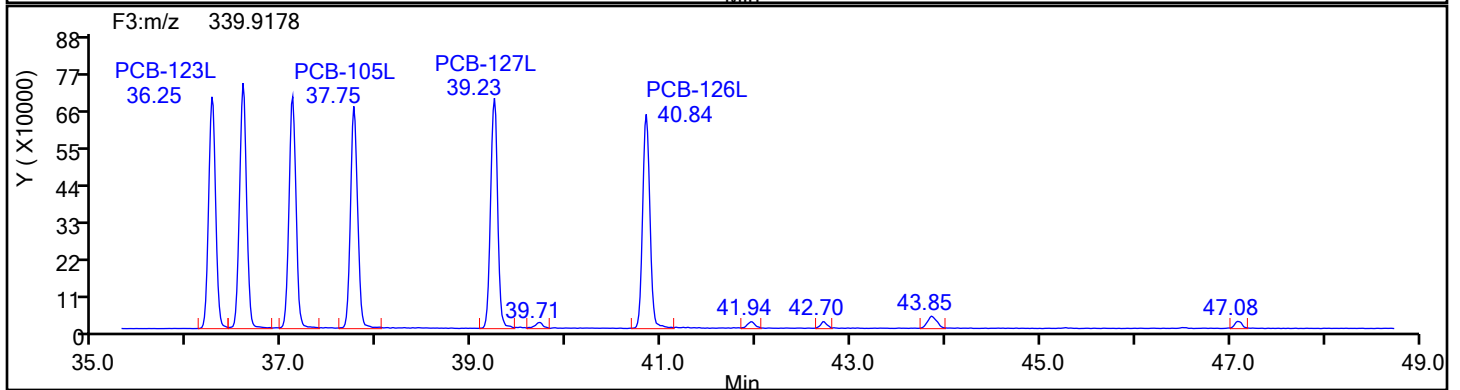
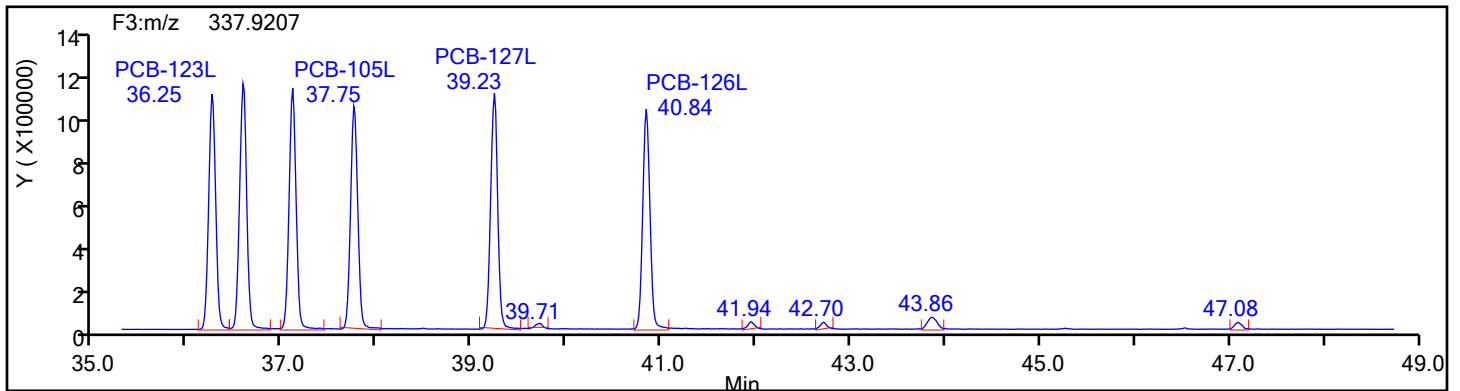
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

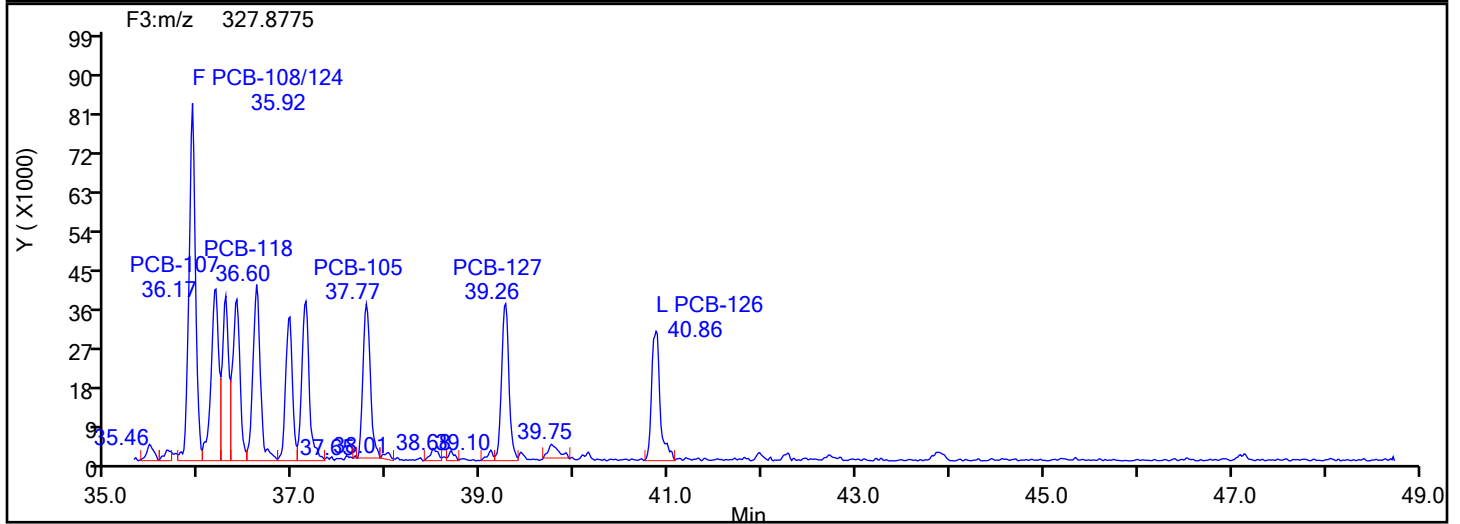
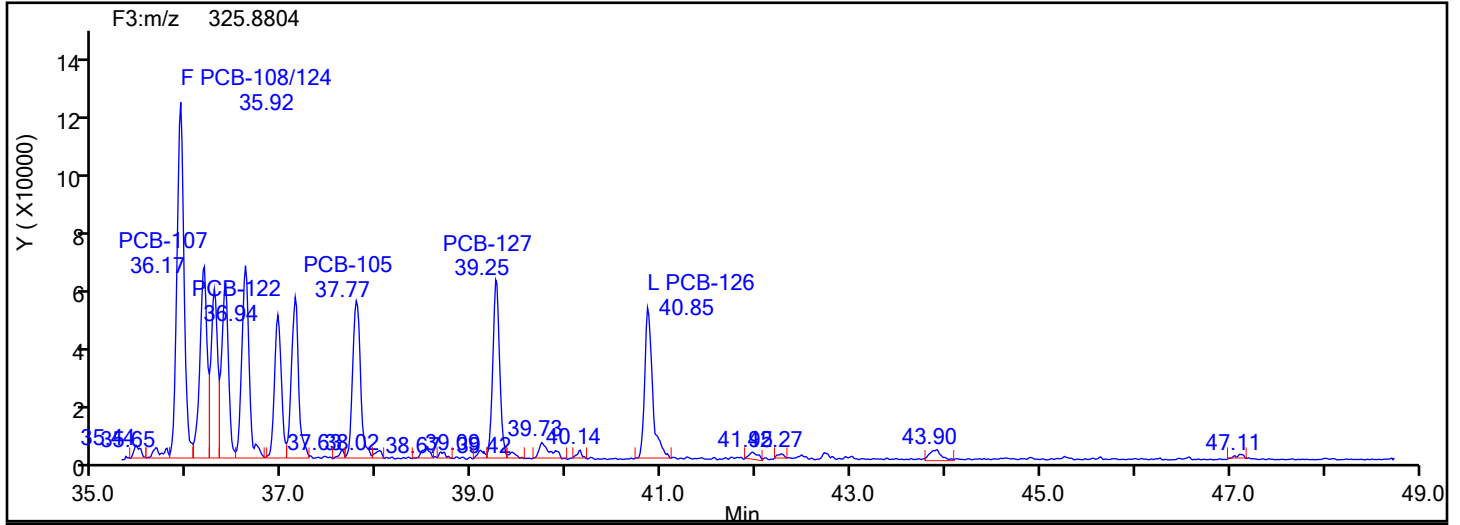
Worklist#: 87130

Sample Line#: 3

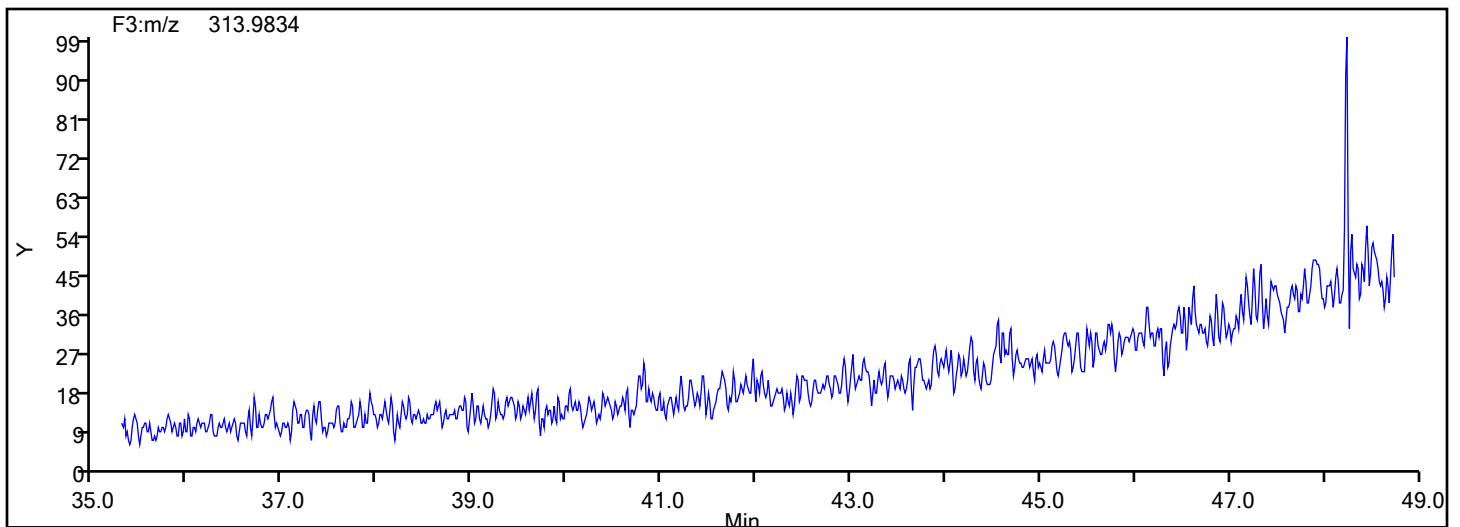
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

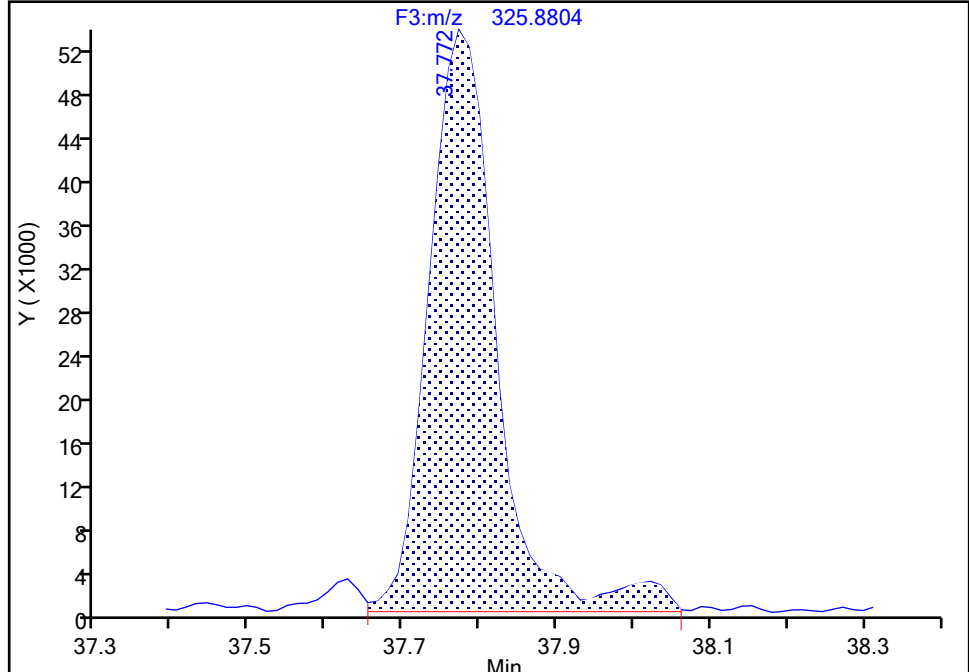
Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 1

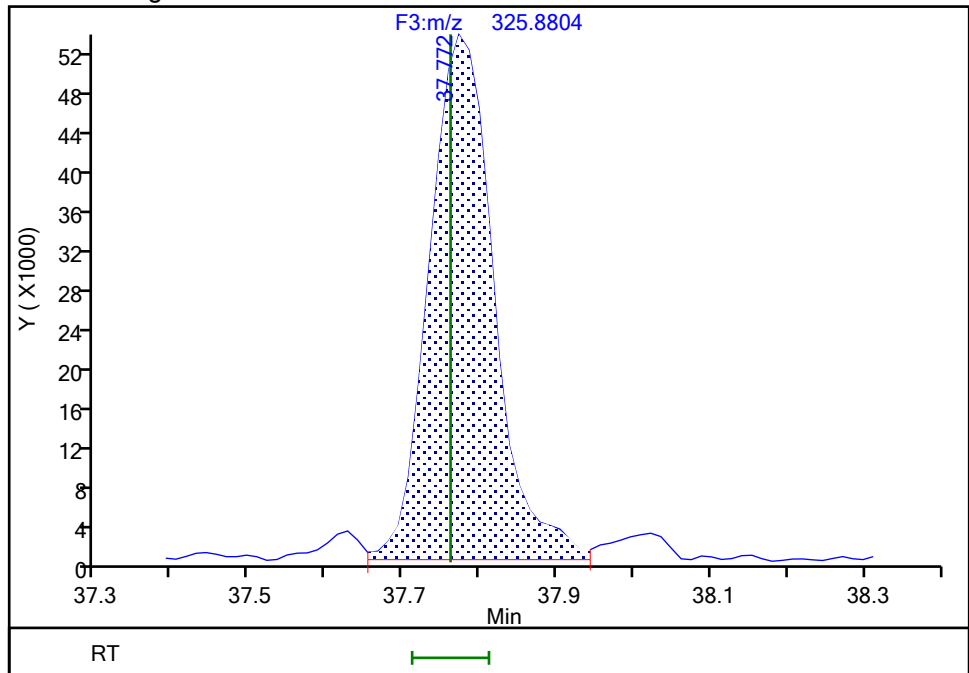
RT: 37.77
Area: 326291
Amount: 4.977767
Amount Units: pg/ul

Processing Integration Results



RT: 37.77
Area: 313087
Amount: 4.755654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

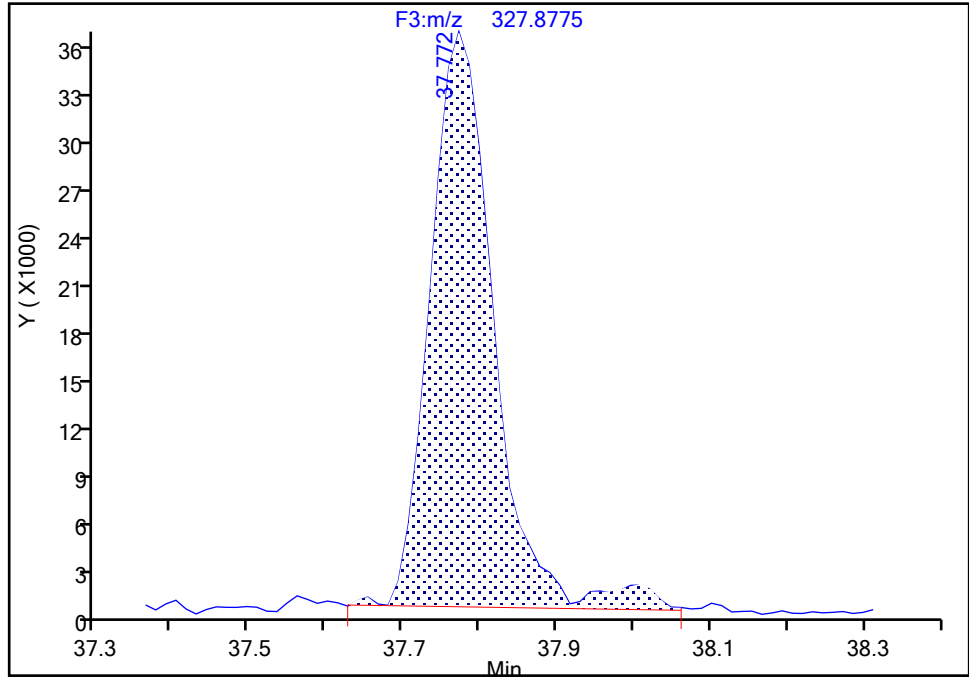
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-105, CAS: 32598-14-4

Signal: 2

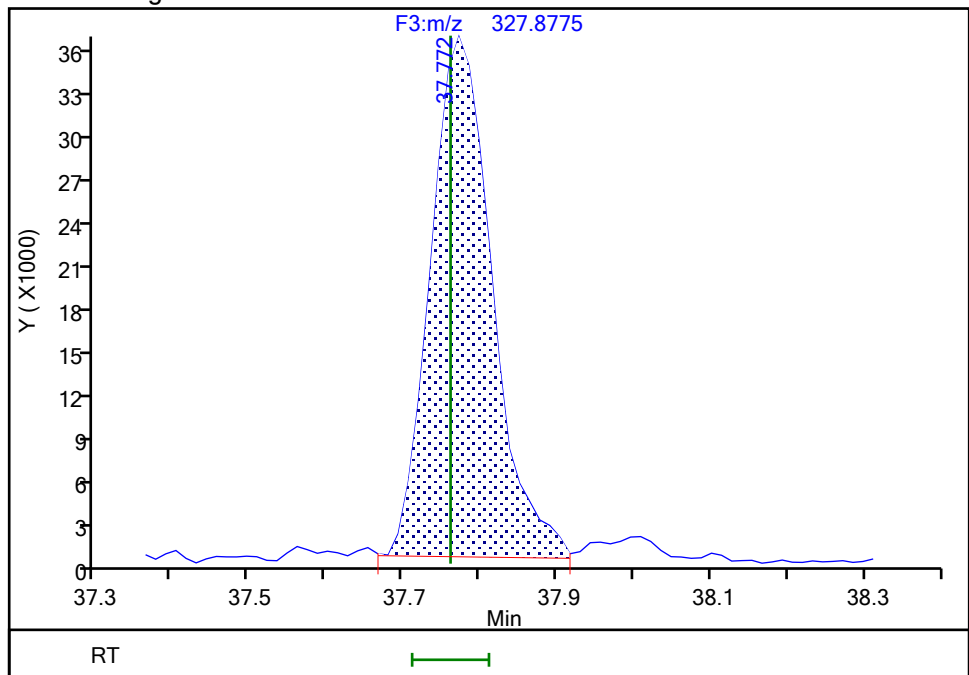
RT: 37.77
Area: 209289
Amount: 4.977767
Amount Units: pg/ul

Processing Integration Results



RT: 37.77
Area: 200314
Amount: 4.755654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Page 2007 of 3050

BASFWC-McIntosh-010008

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

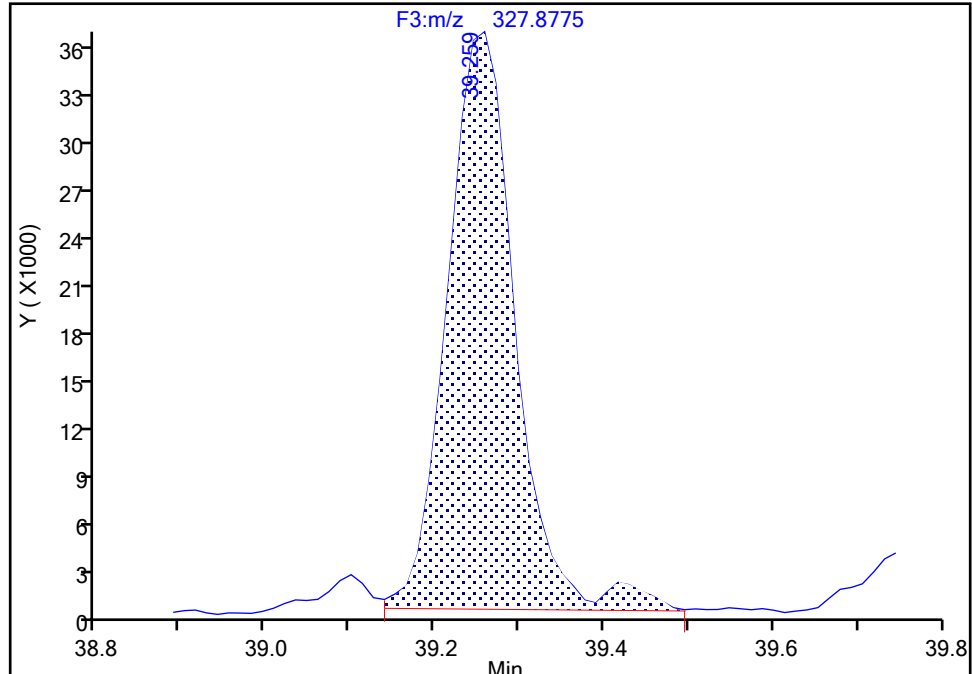
Detector F3(35.64 :49.10)

PCB-127, CAS: 39635-33-1

Signal: 2

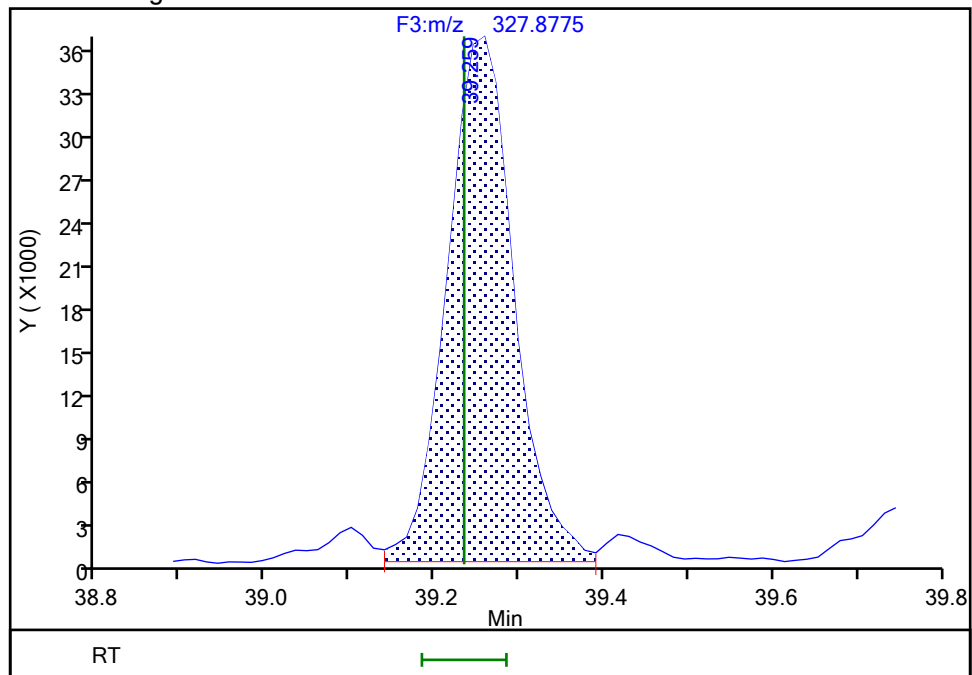
RT: 39.26
Area: 202843
Amount: 4.610039
Amount Units: pg/ul

Processing Integration Results



RT: 39.26
Area: 200669
Amount: 4.755101
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:48:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

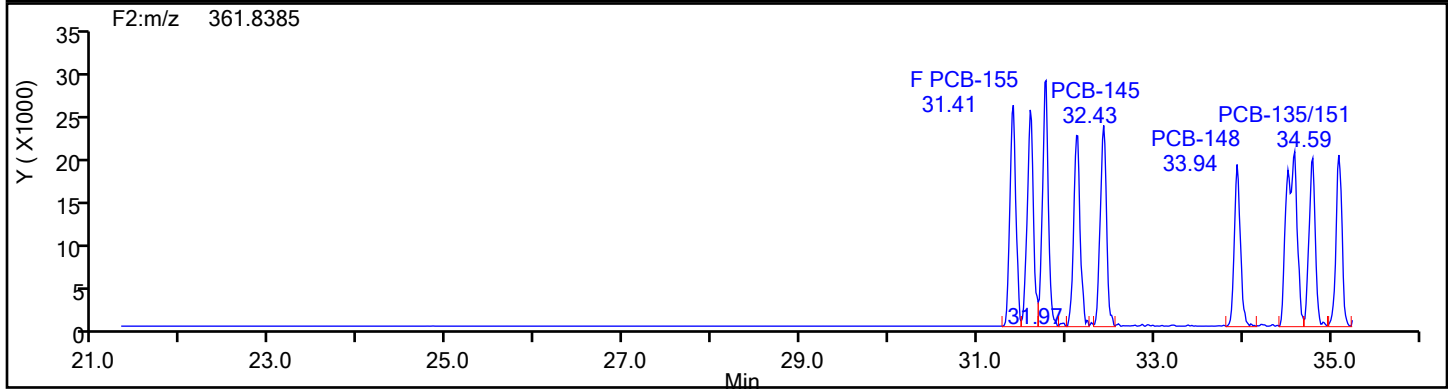
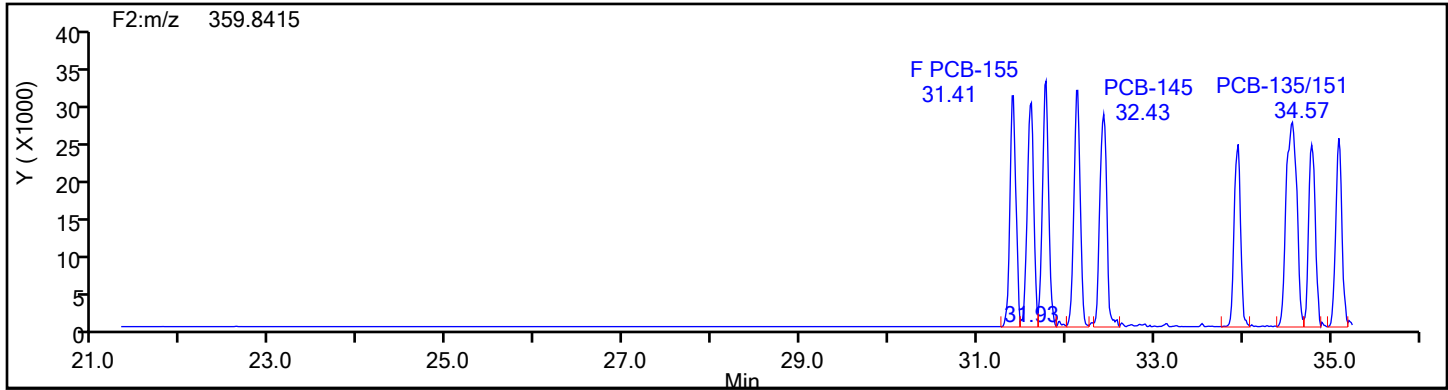
Worklist#: 87130

Sample Line#: 3

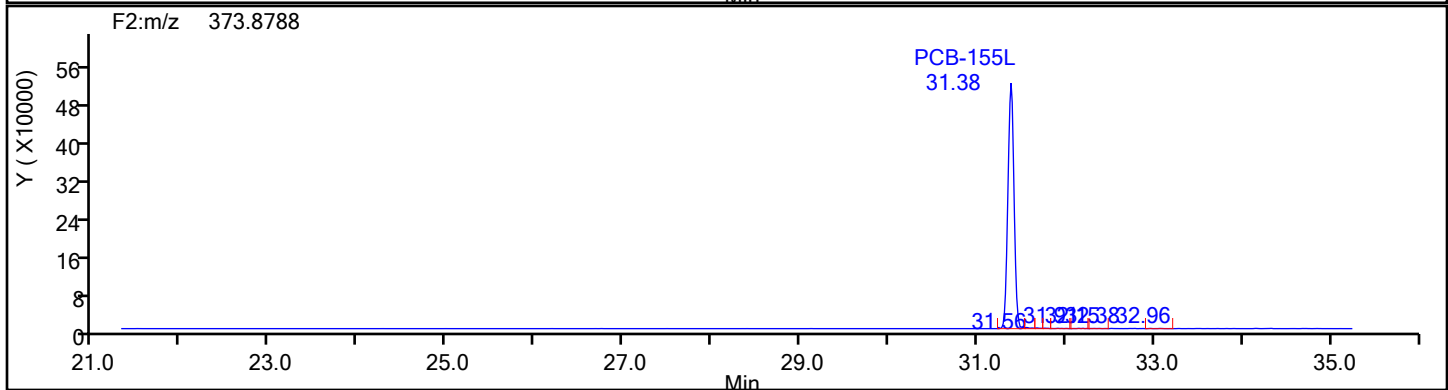
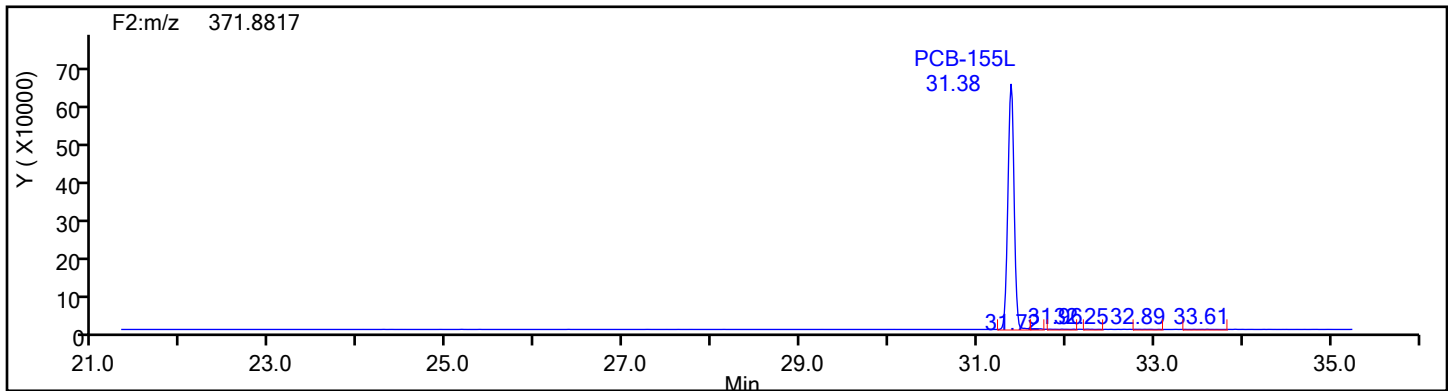
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

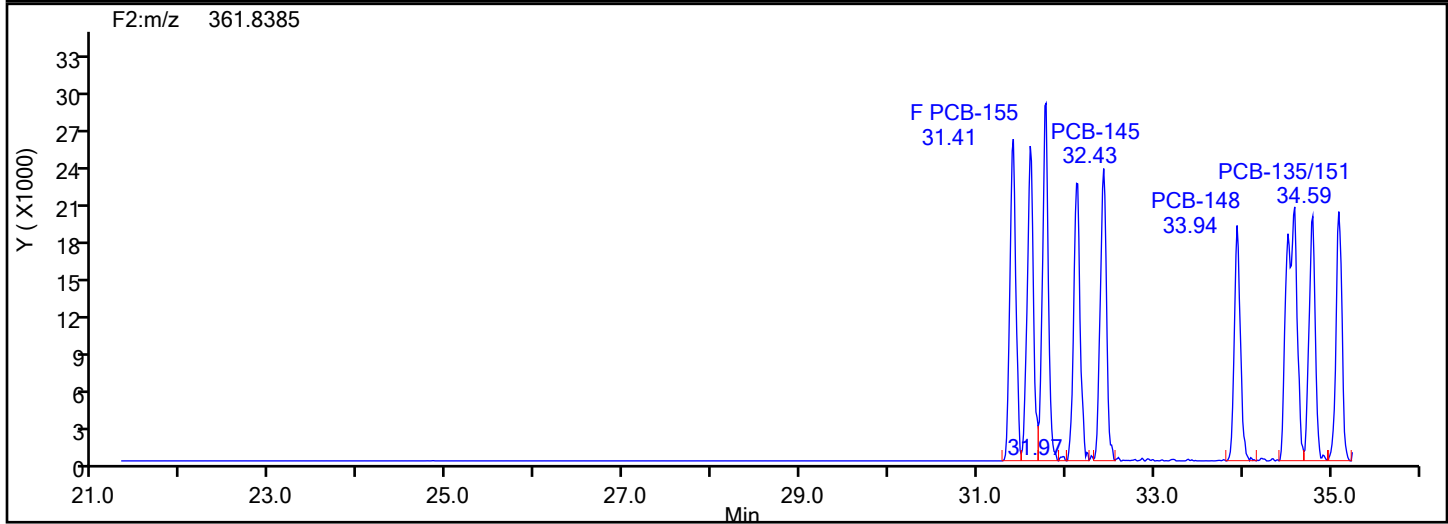
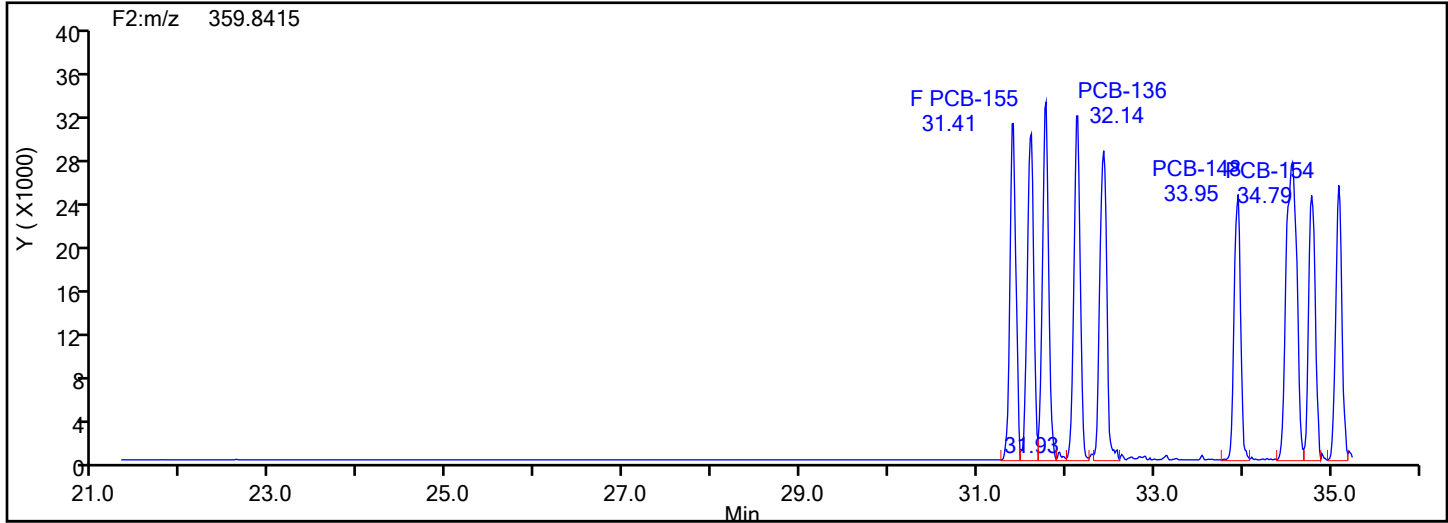
Worklist#: 87130

Sample Line#: 3

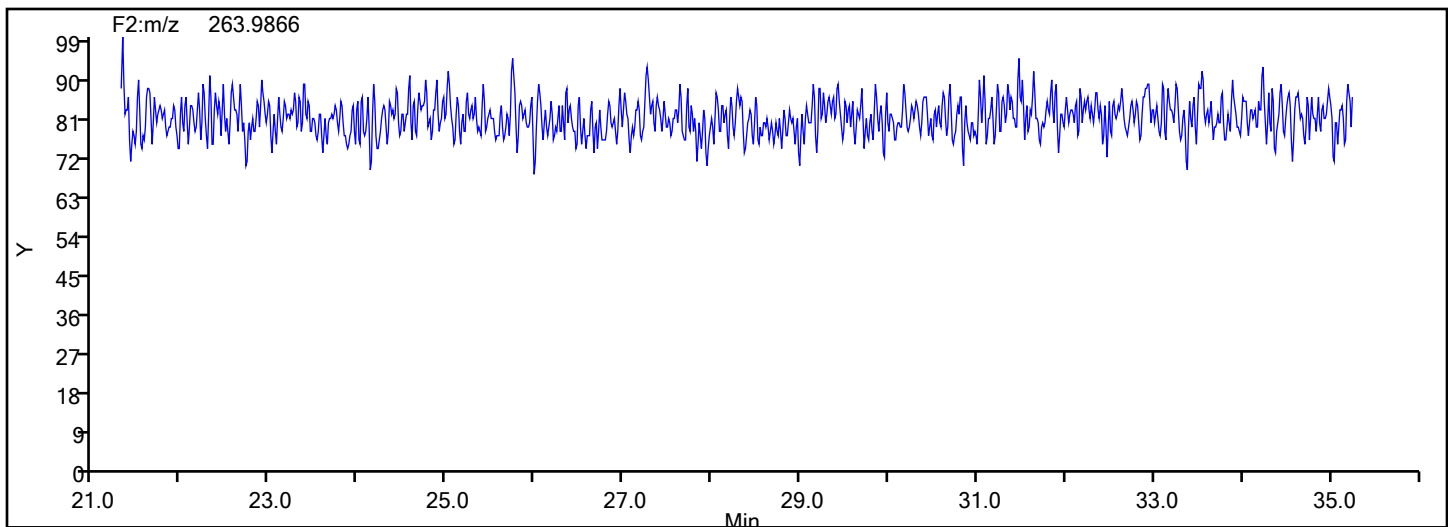
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

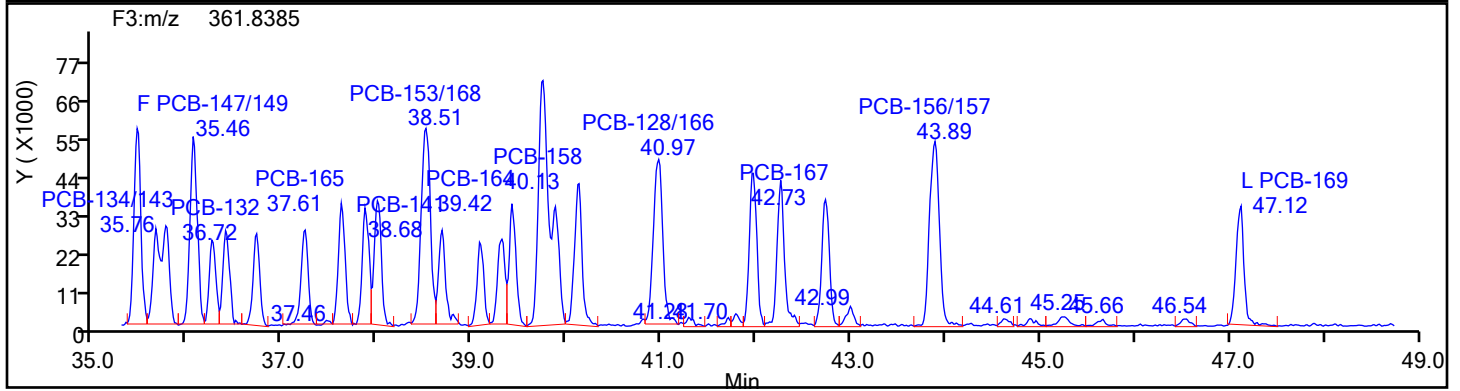
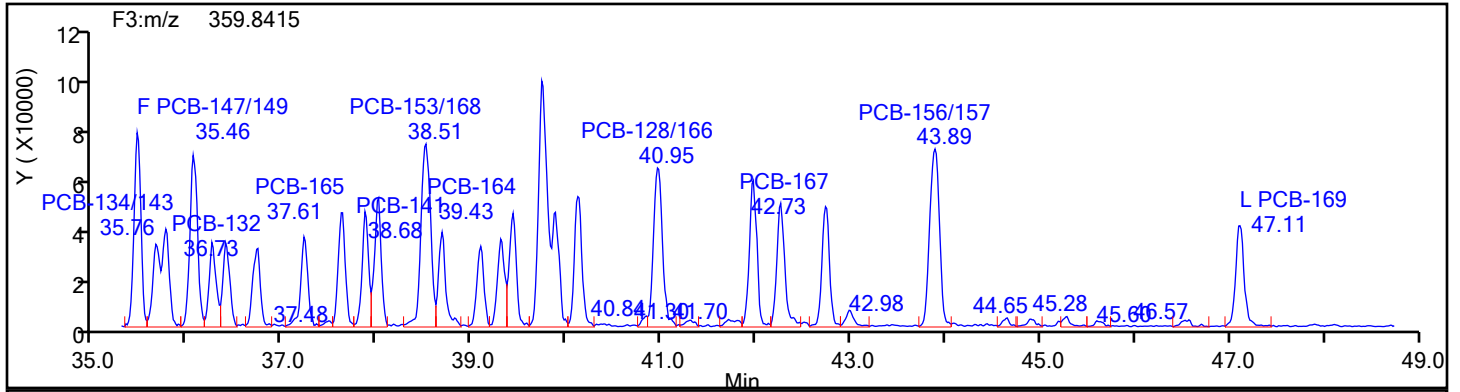
Worklist#: 87130

Sample Line#: 3

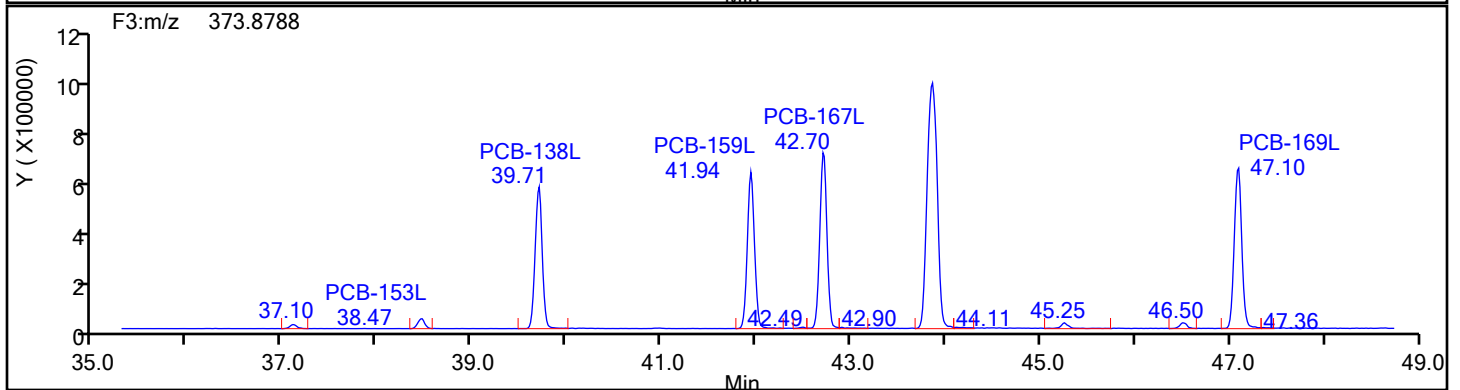
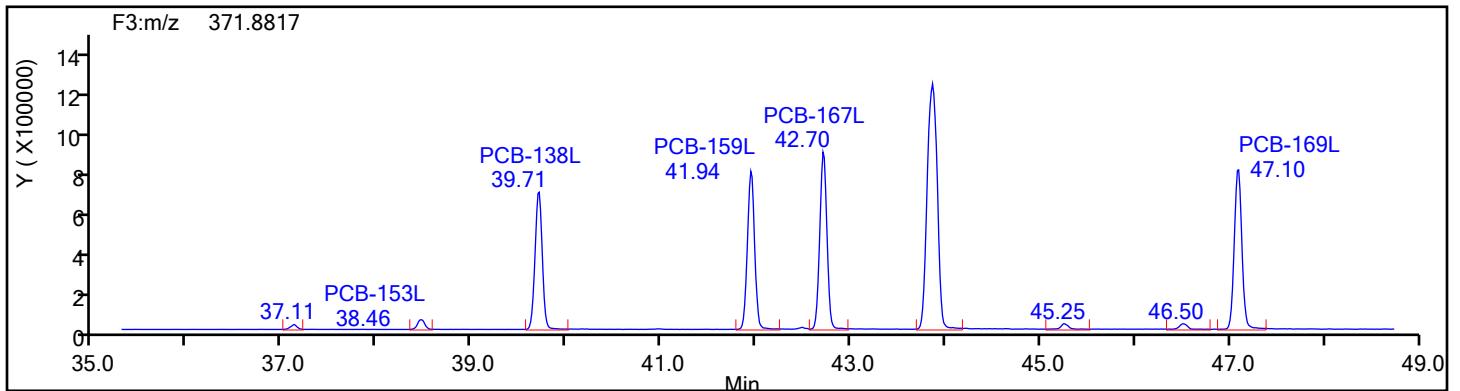
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

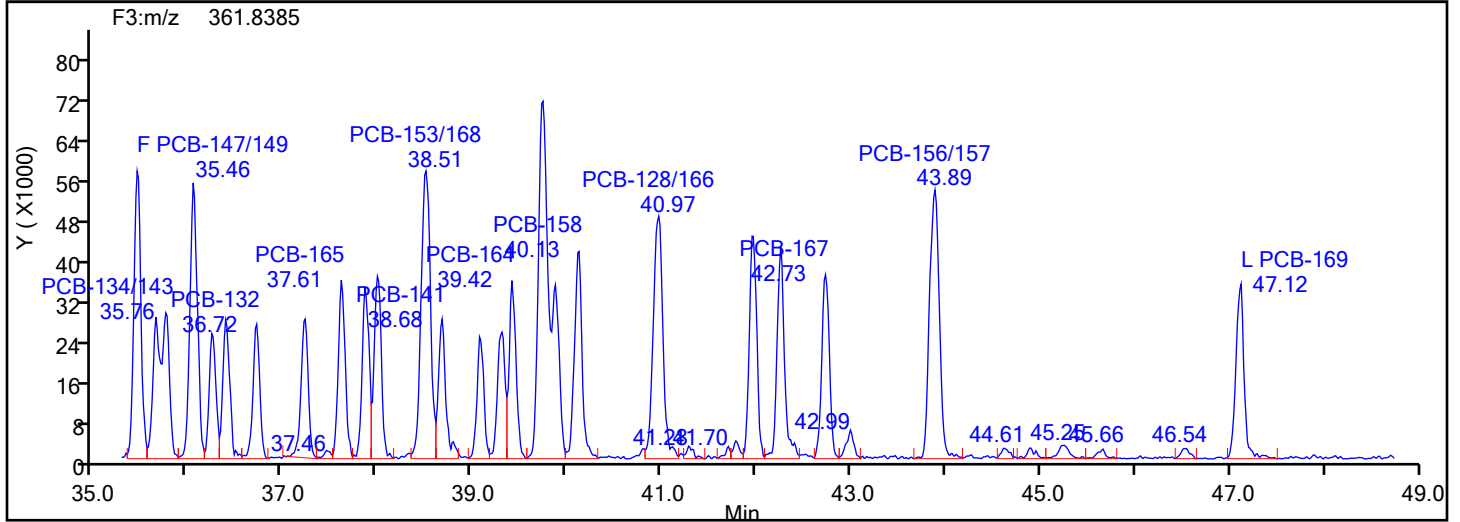
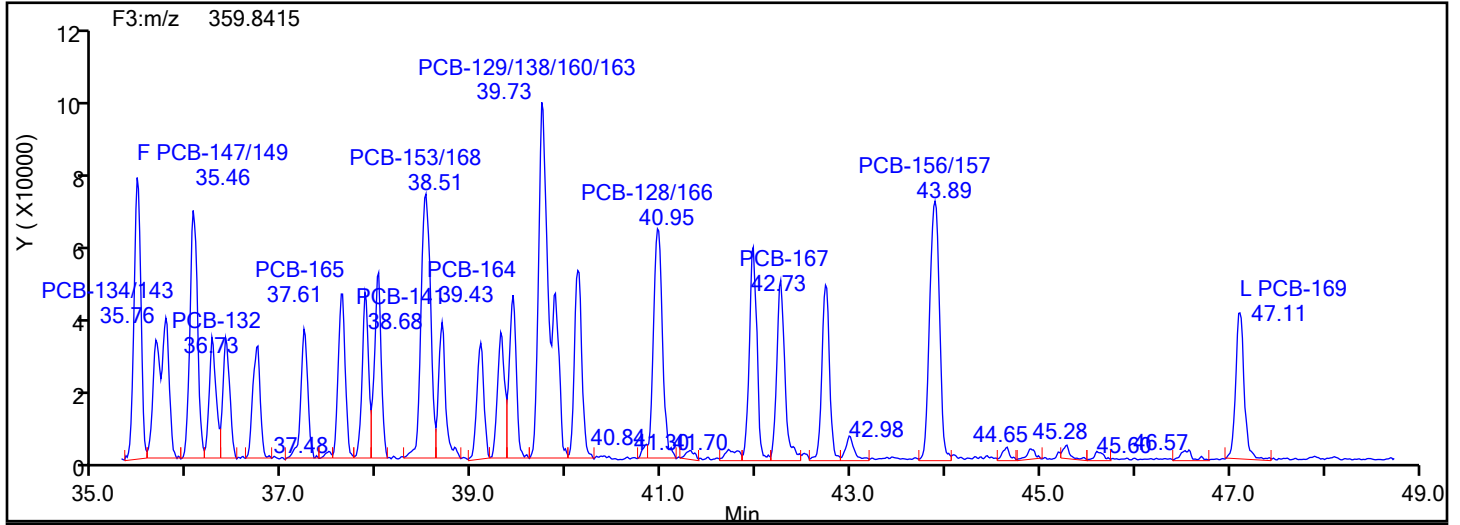
Worklist#: 87130

Sample Line#: 3

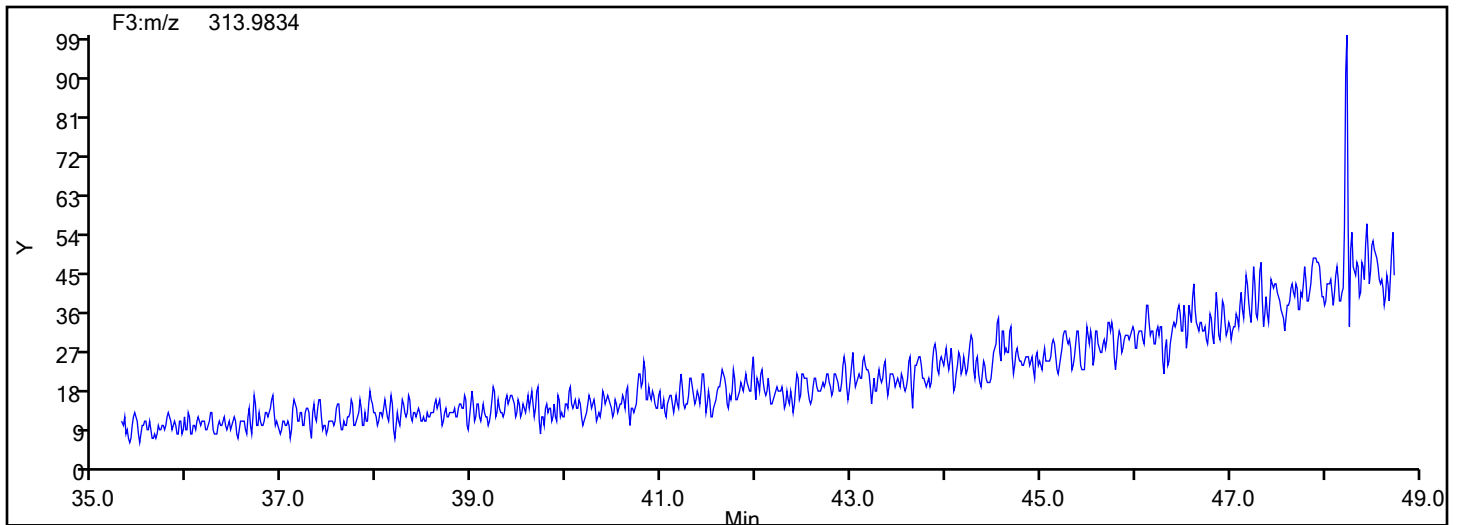
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

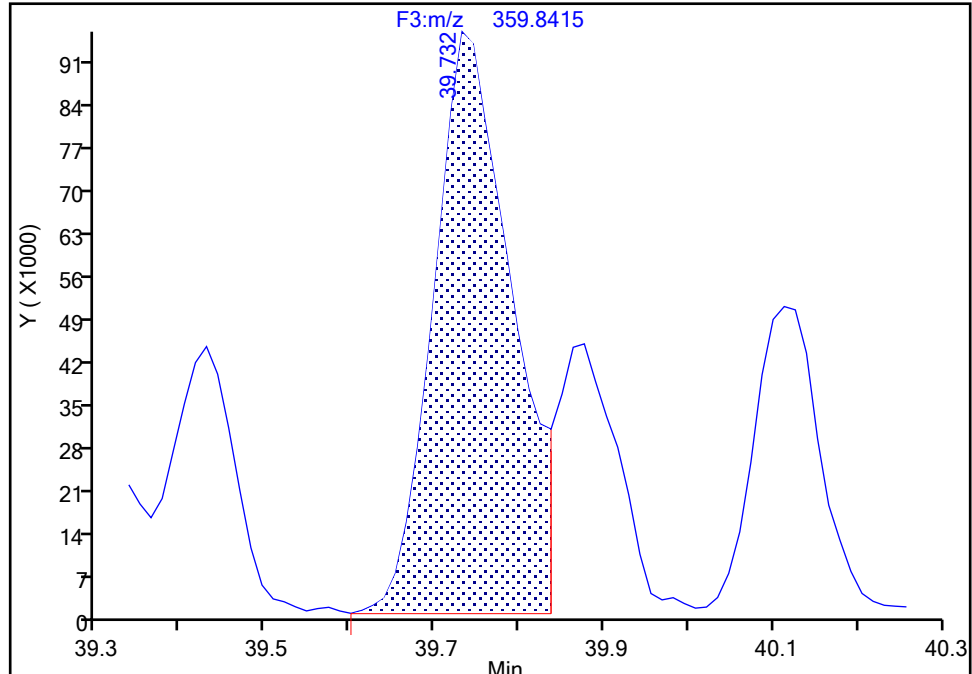
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

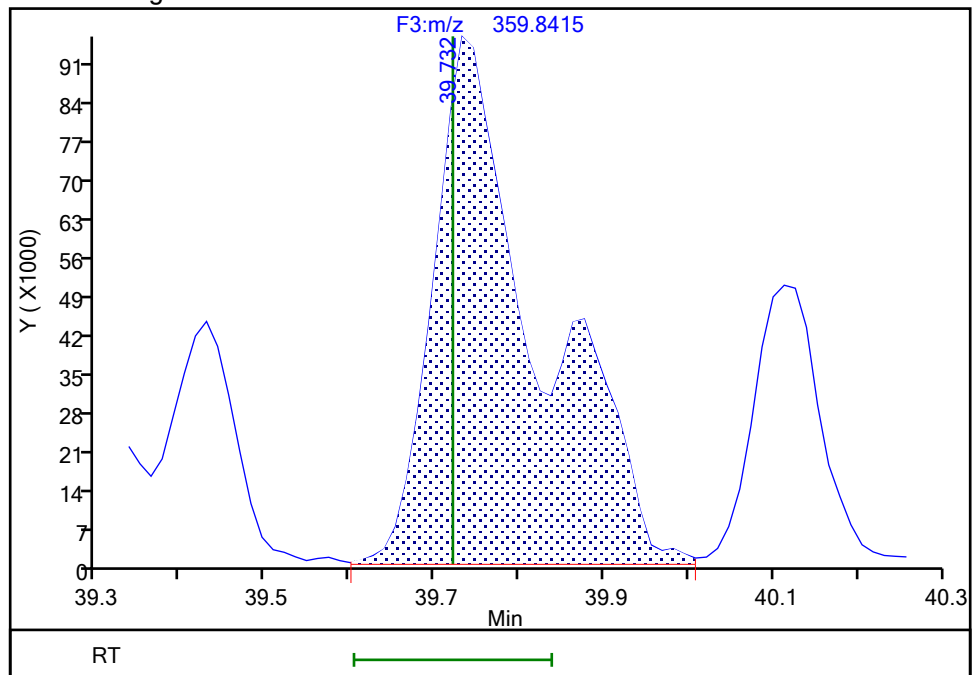
RT: 39.73
Area: 605540
Amount: 17.339974
Amount Units: pg/ul

Processing Integration Results



RT: 39.73
Area: 820981
Amount: 19.465175
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

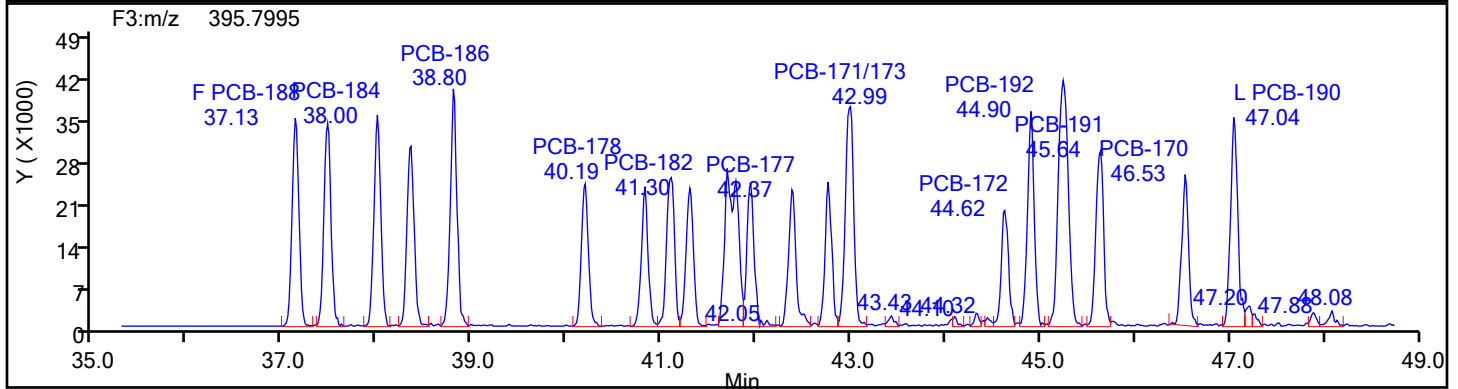
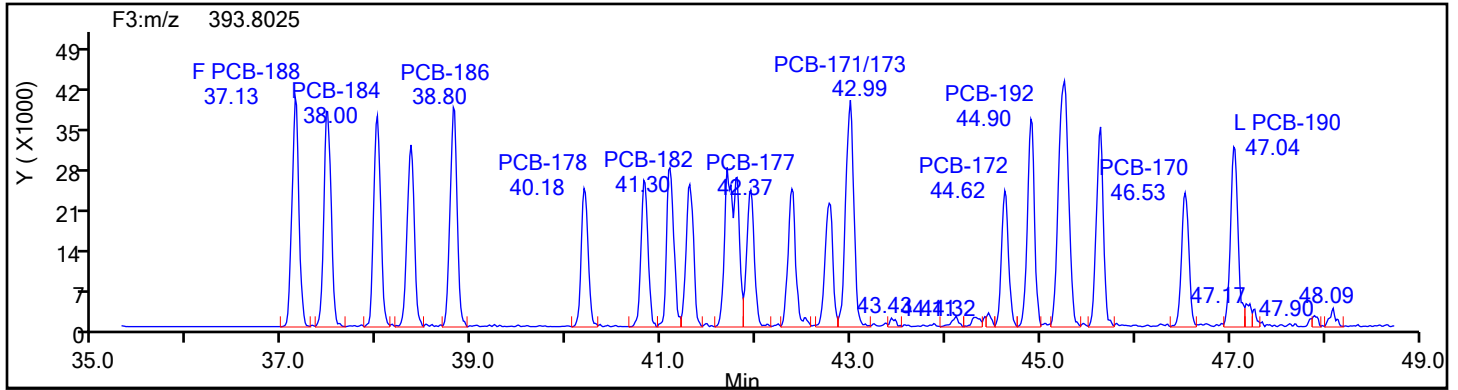
Worklist#: 87130

Sample Line#: 3

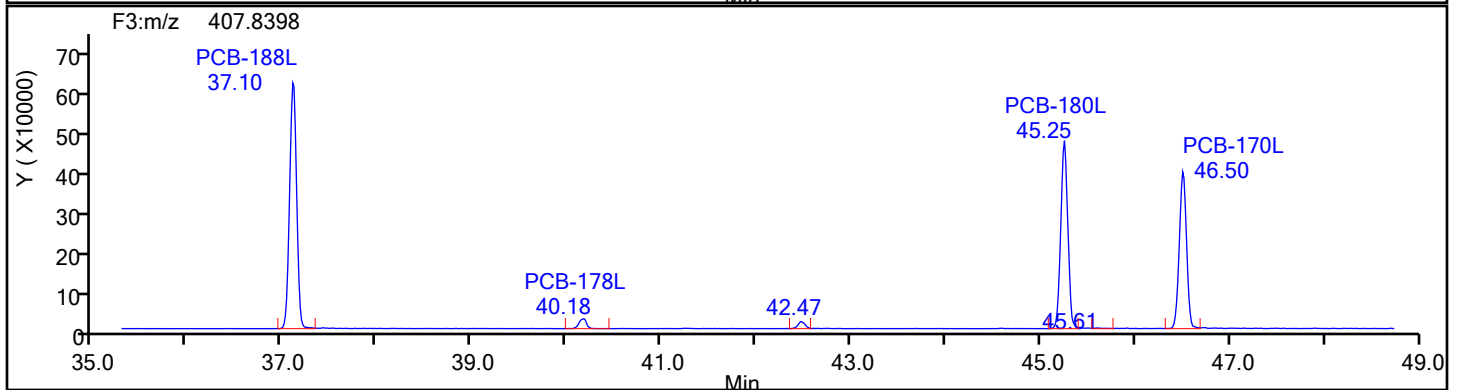
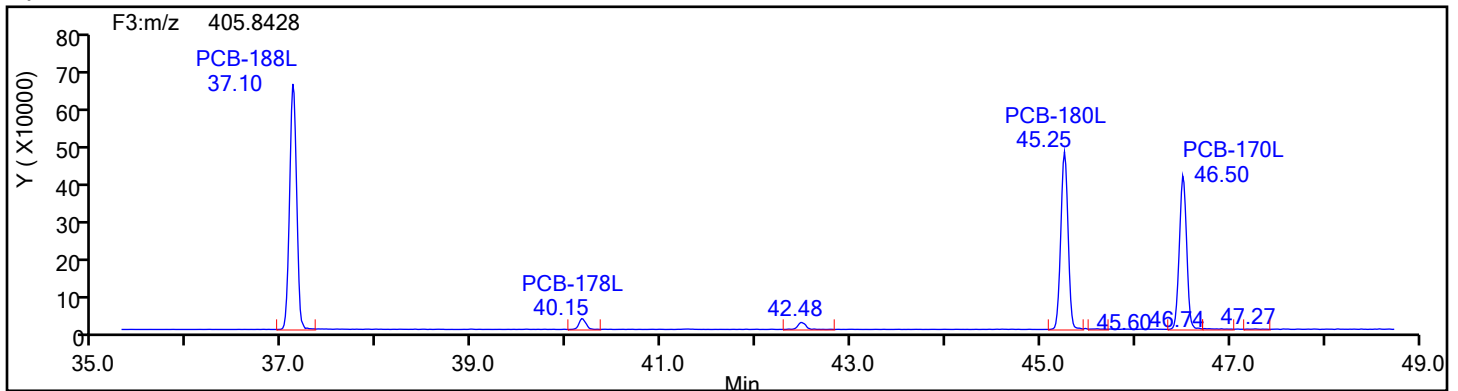
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

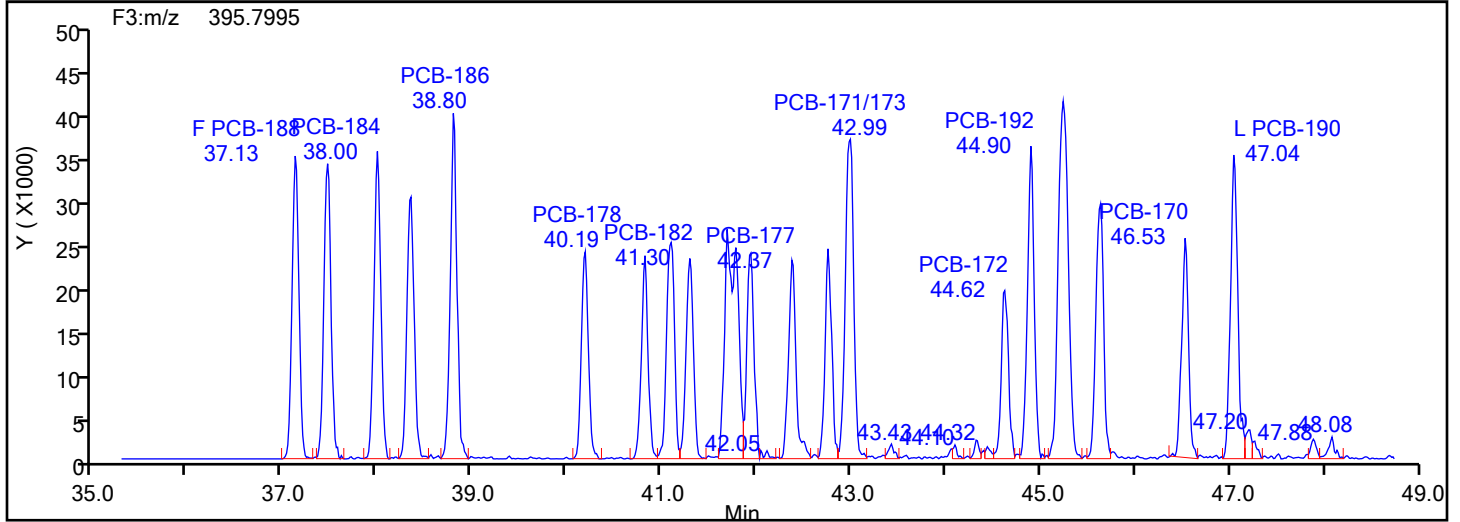
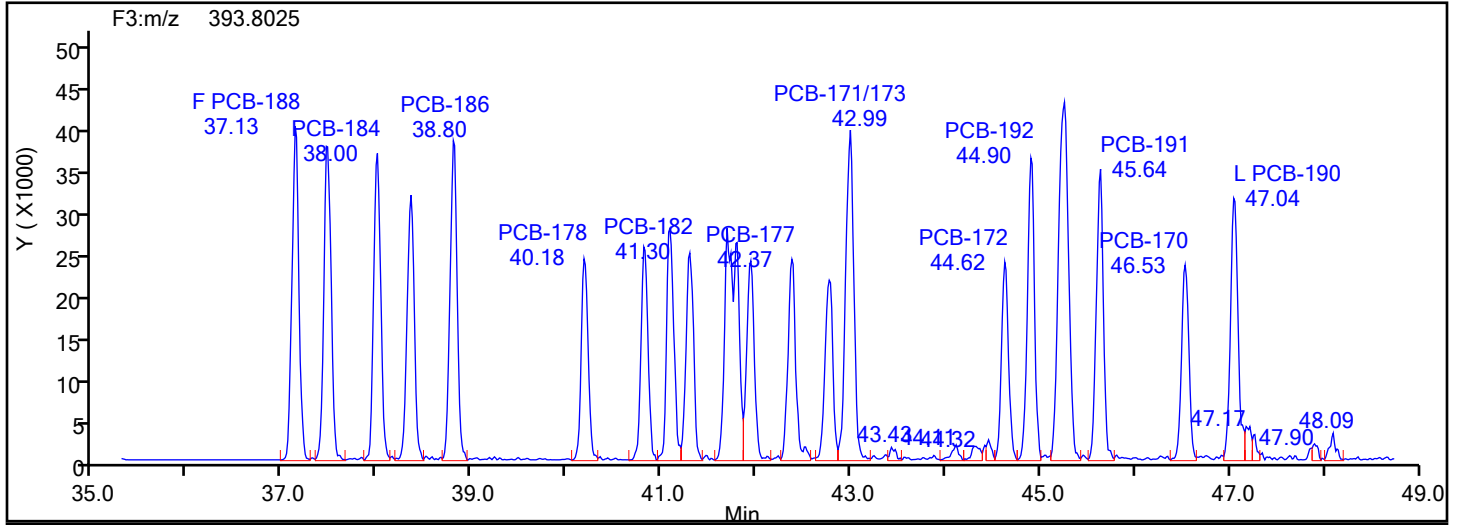
Worklist#: 87130

Sample Line#: 3

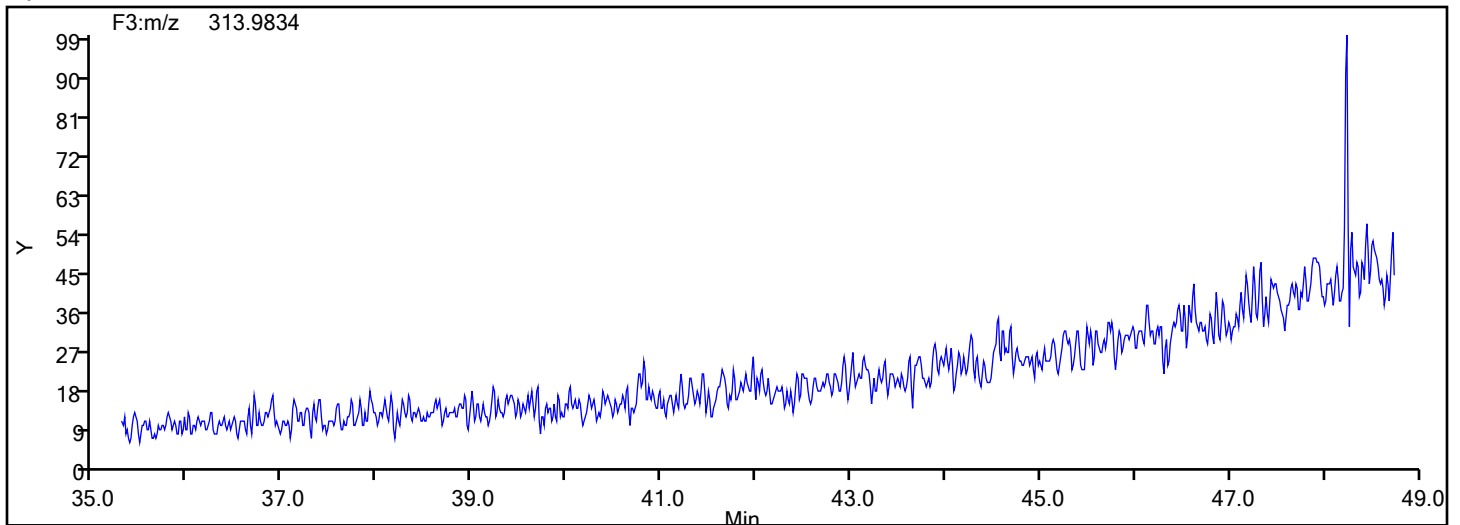
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

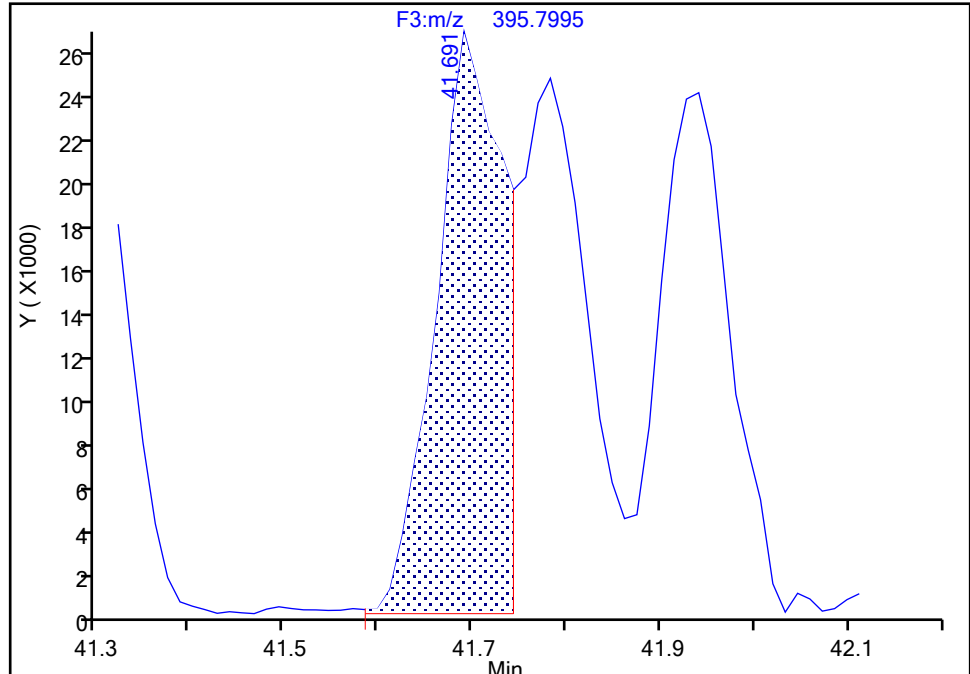
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

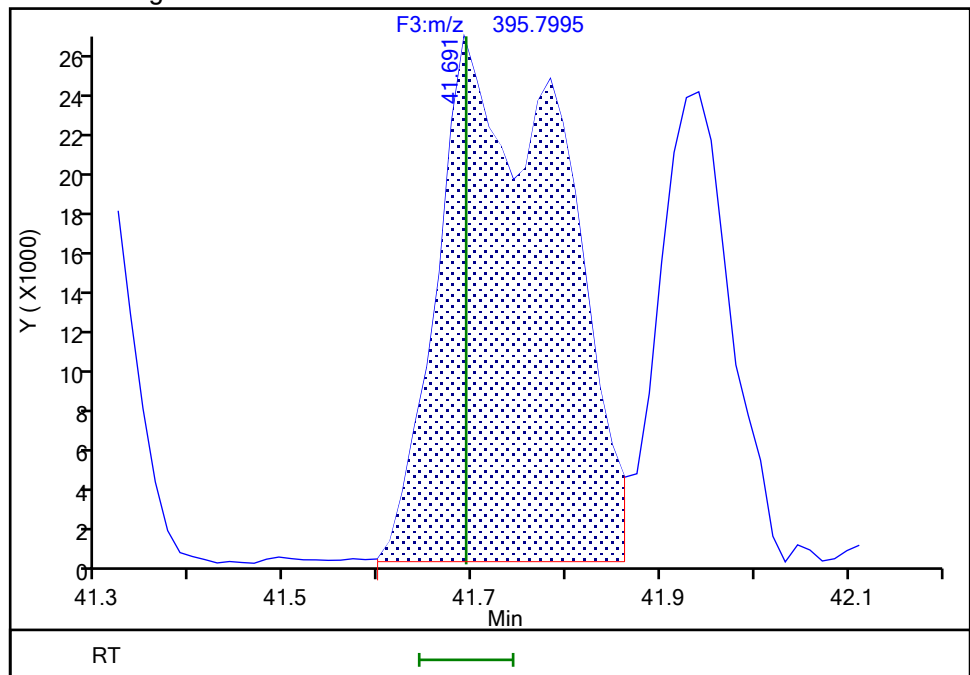
RT: 41.69
Area: 127948
Amount: 7.395438
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 244261
Amount: 9.336683
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

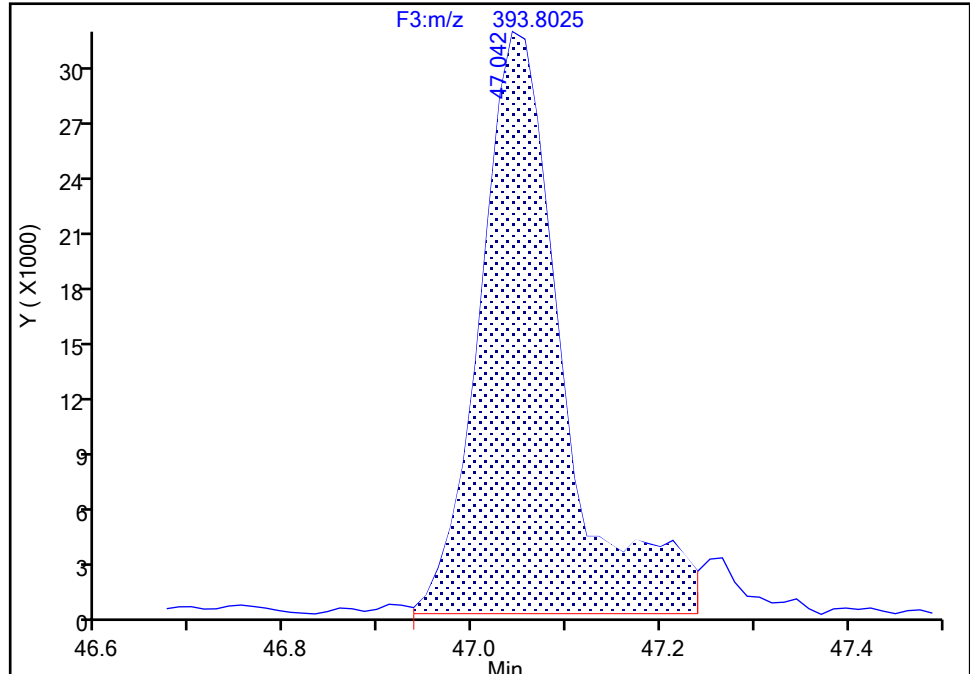
F3(35.64 :49.10)

PCB-190, CAS: 41411-64-7

Signal: 1

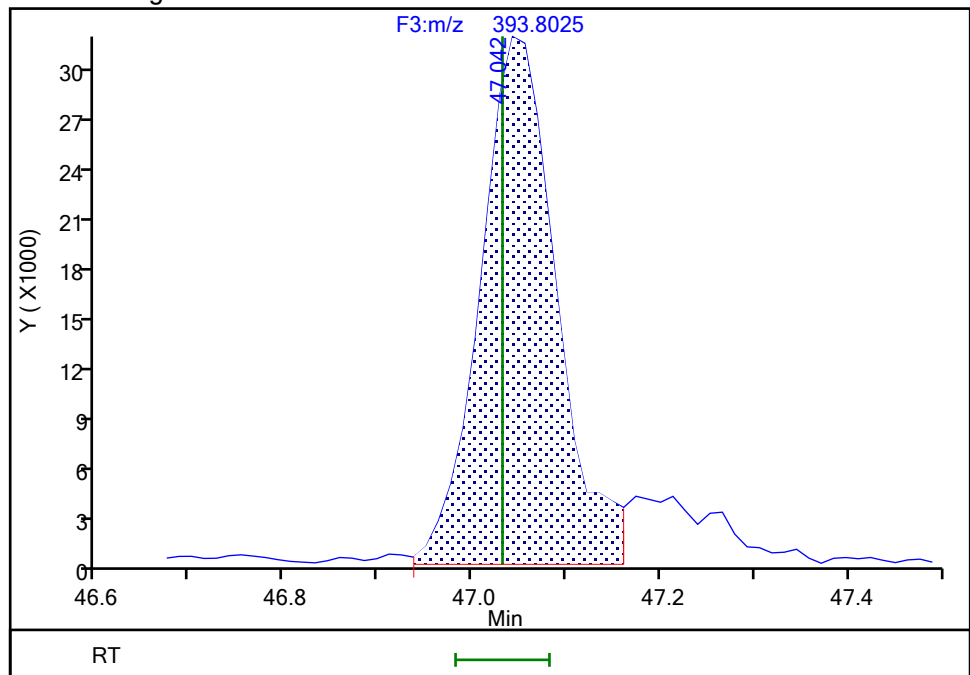
RT: 47.04
Area: 192417
Amount: 5.044239
Amount Units: pg/ul

Processing Integration Results



RT: 47.04
Area: 175590
Amount: 4.967529
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

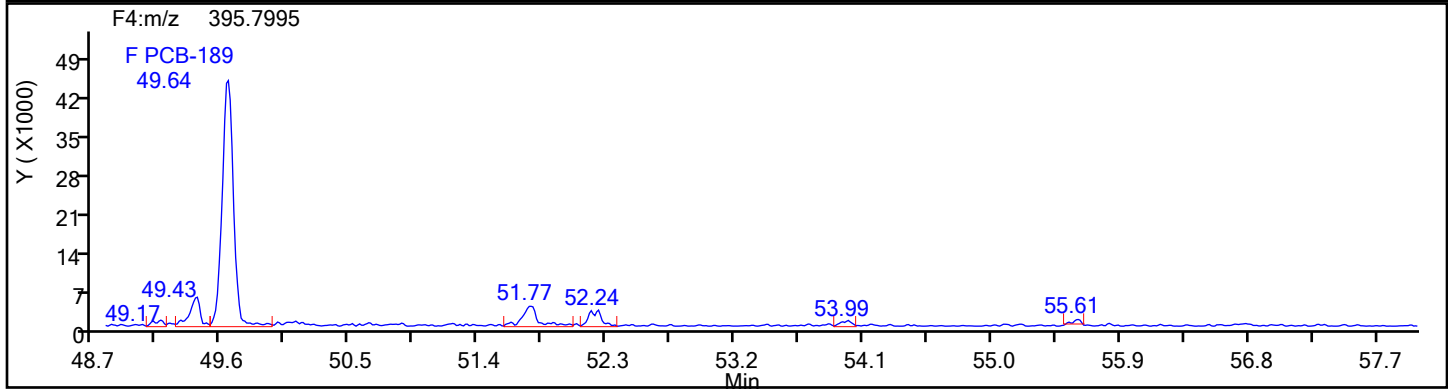
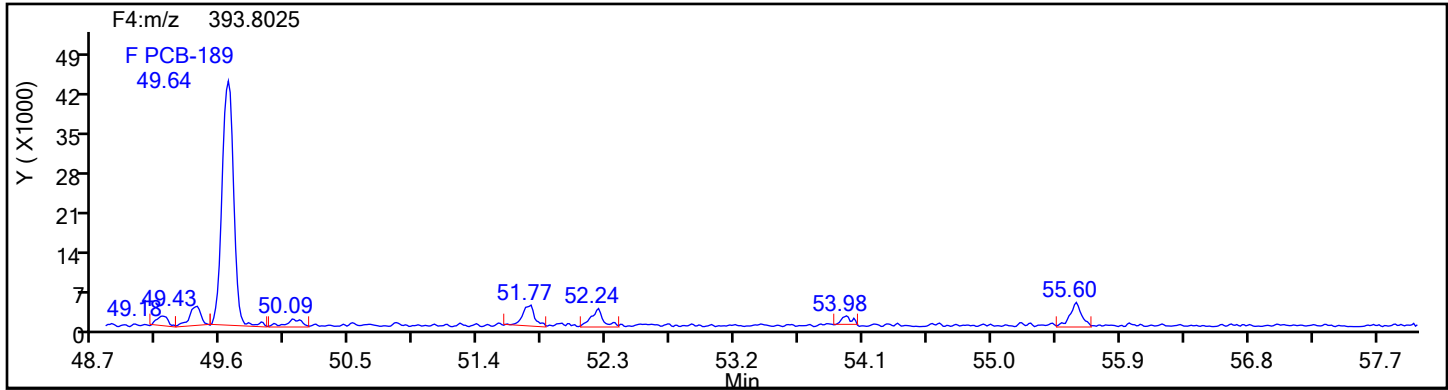
Worklist#: 87130

Sample Line#: 3

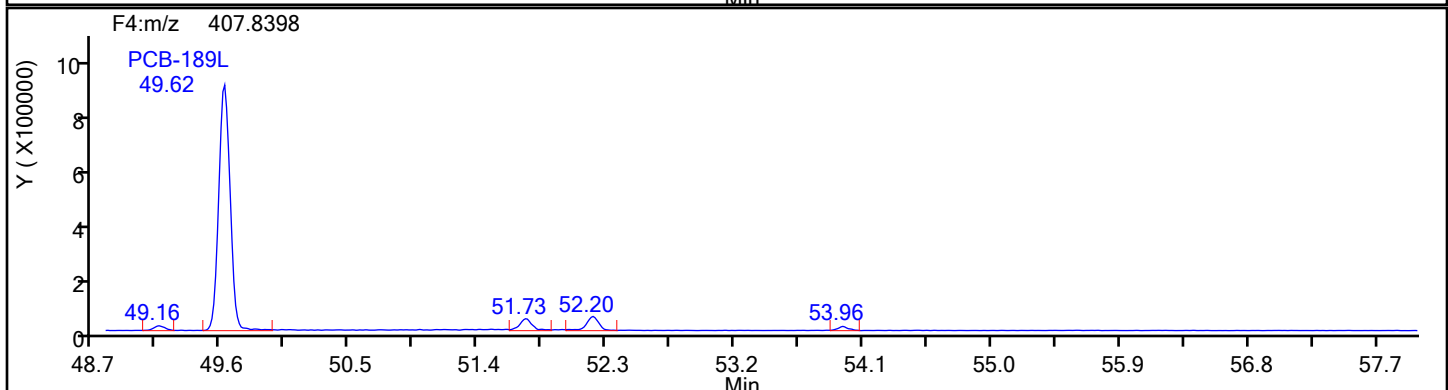
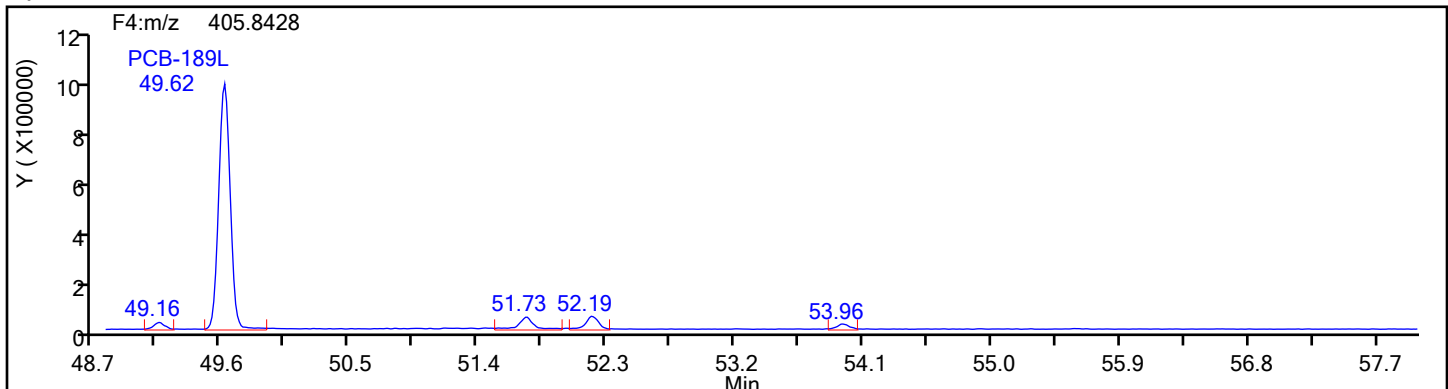
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

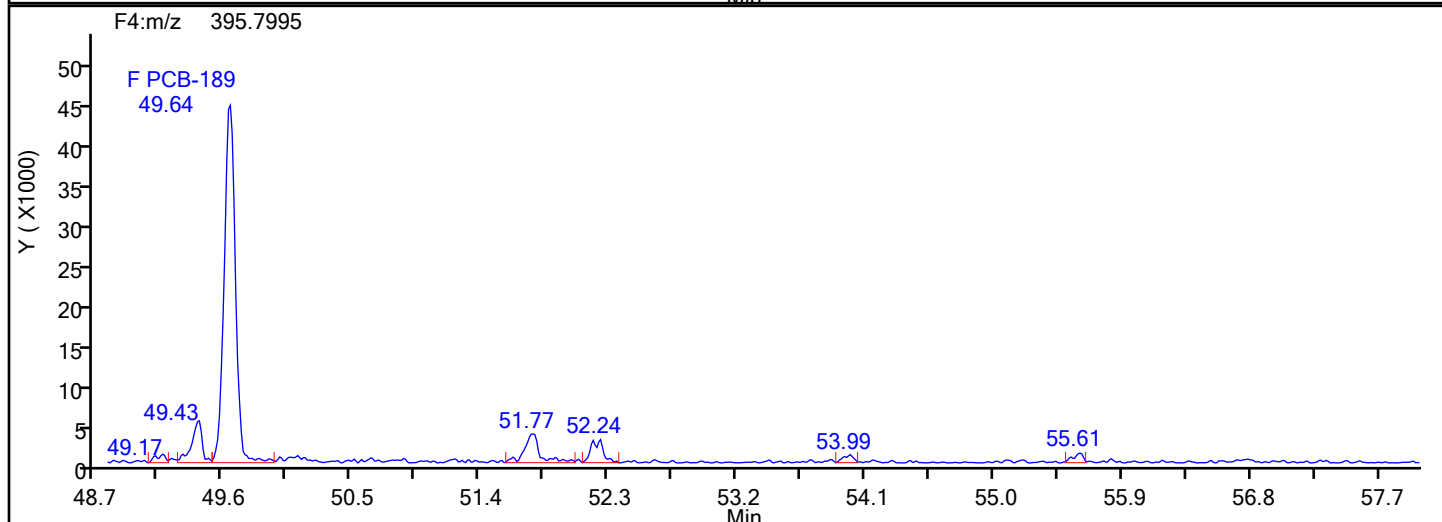
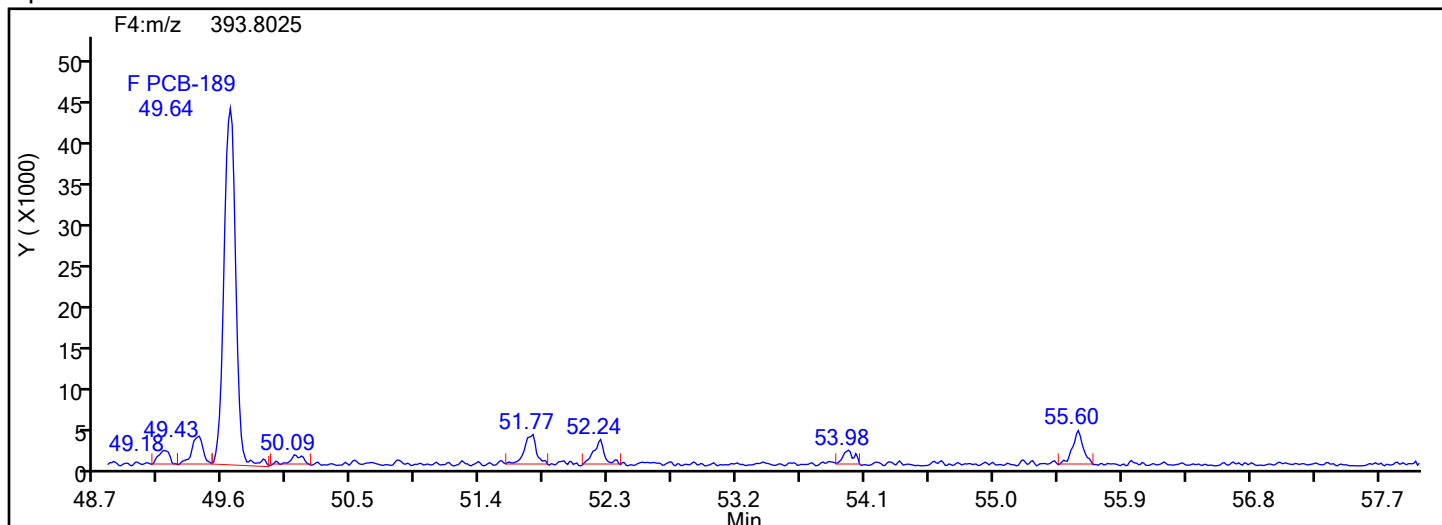
Worklist#: 87130

Sample Line#: 3

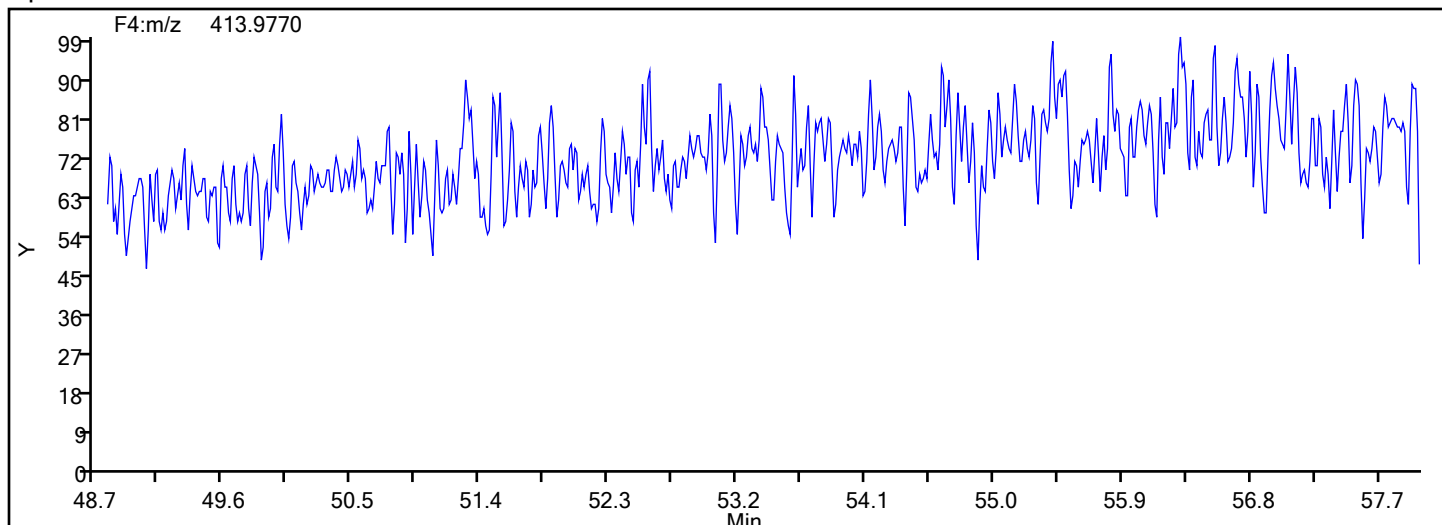
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

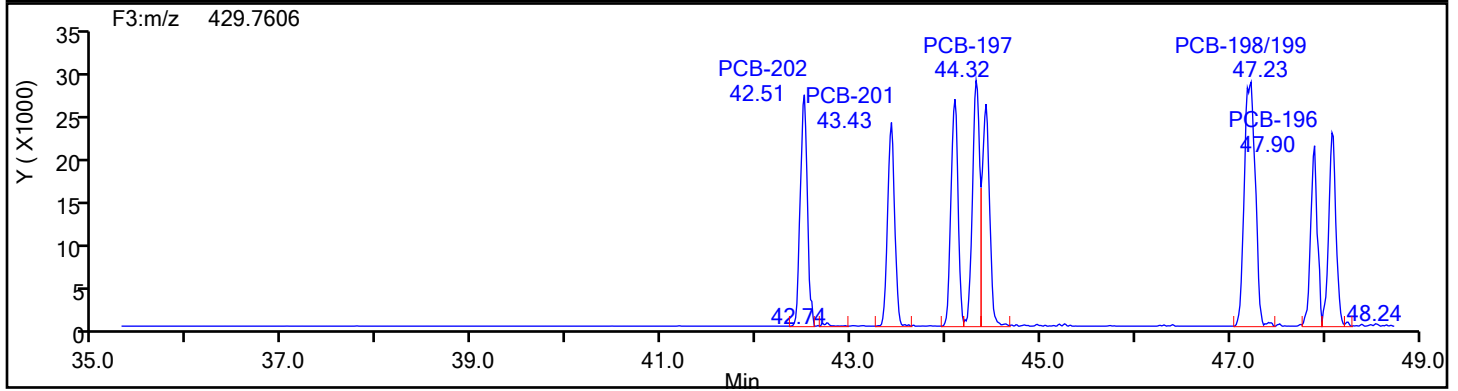
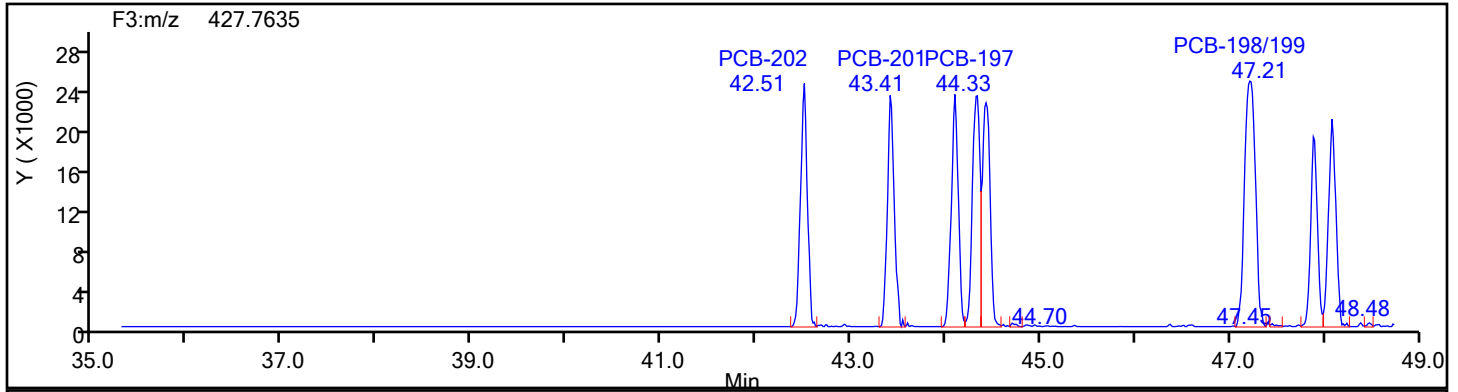
Worklist#: 87130

Sample Line#: 3

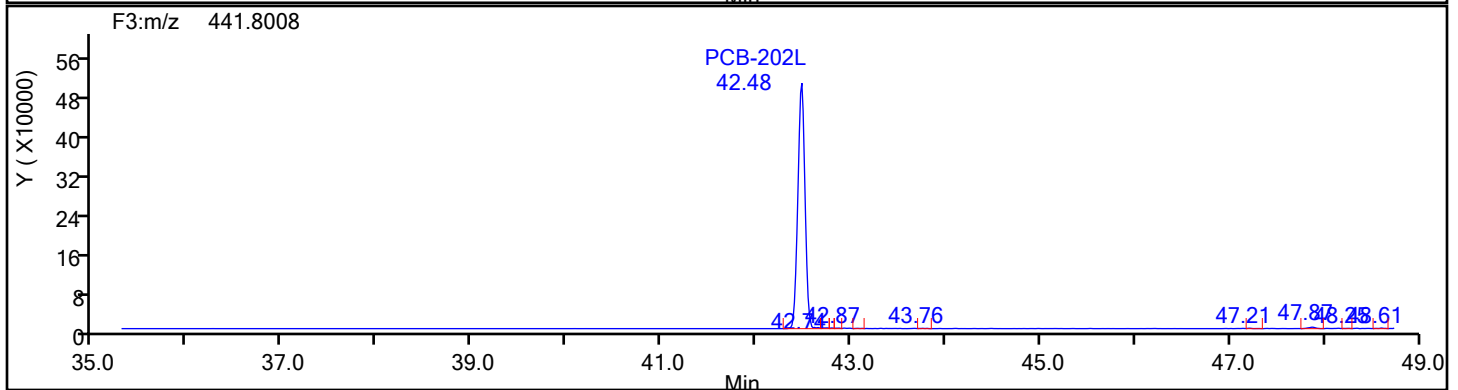
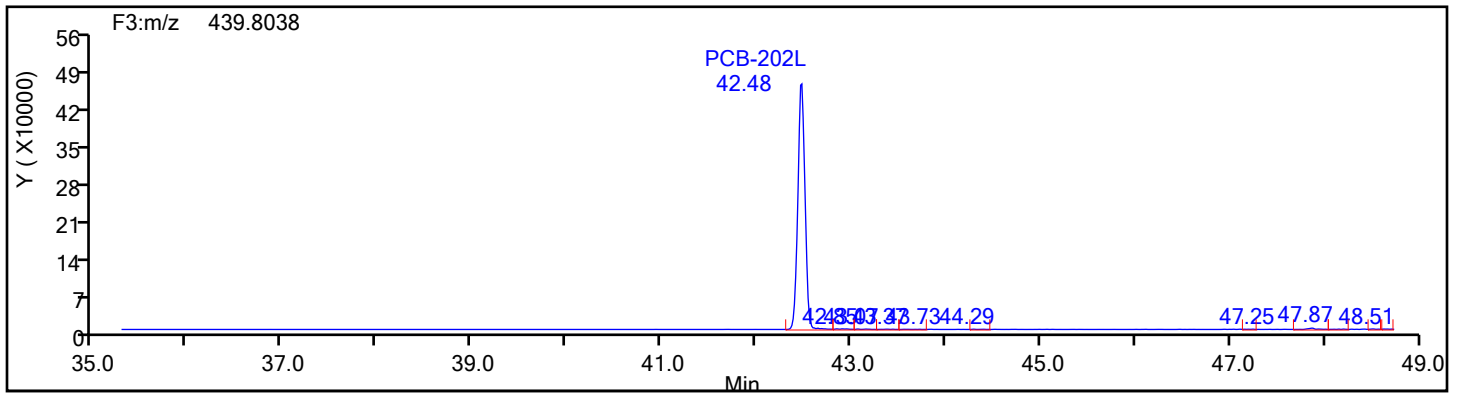
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

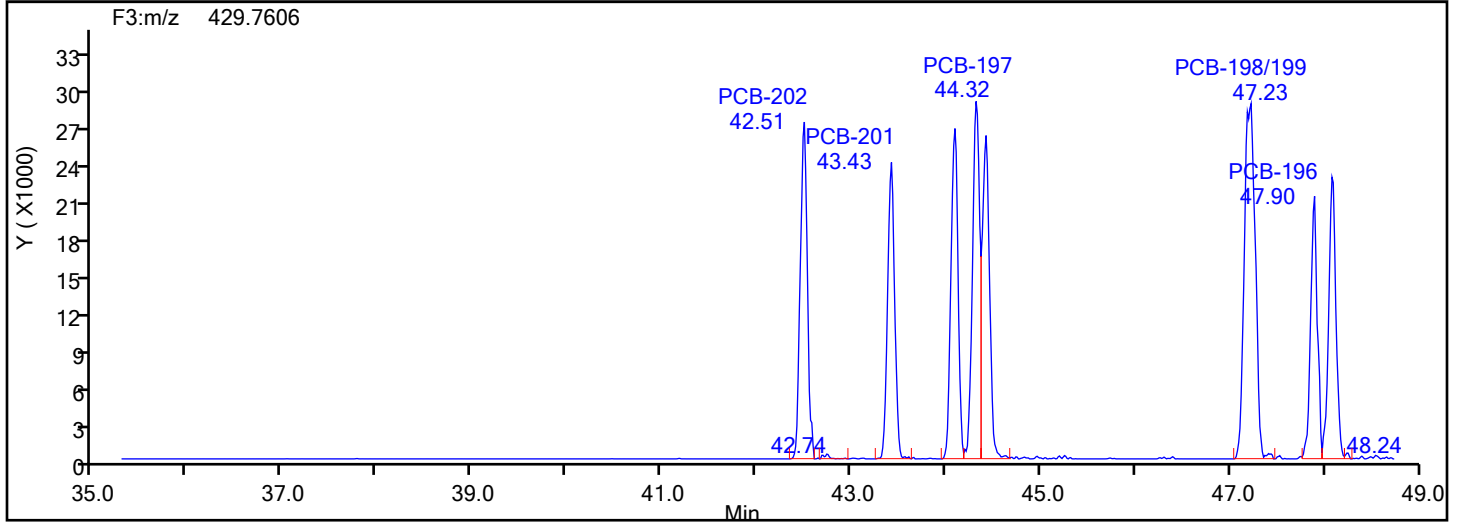
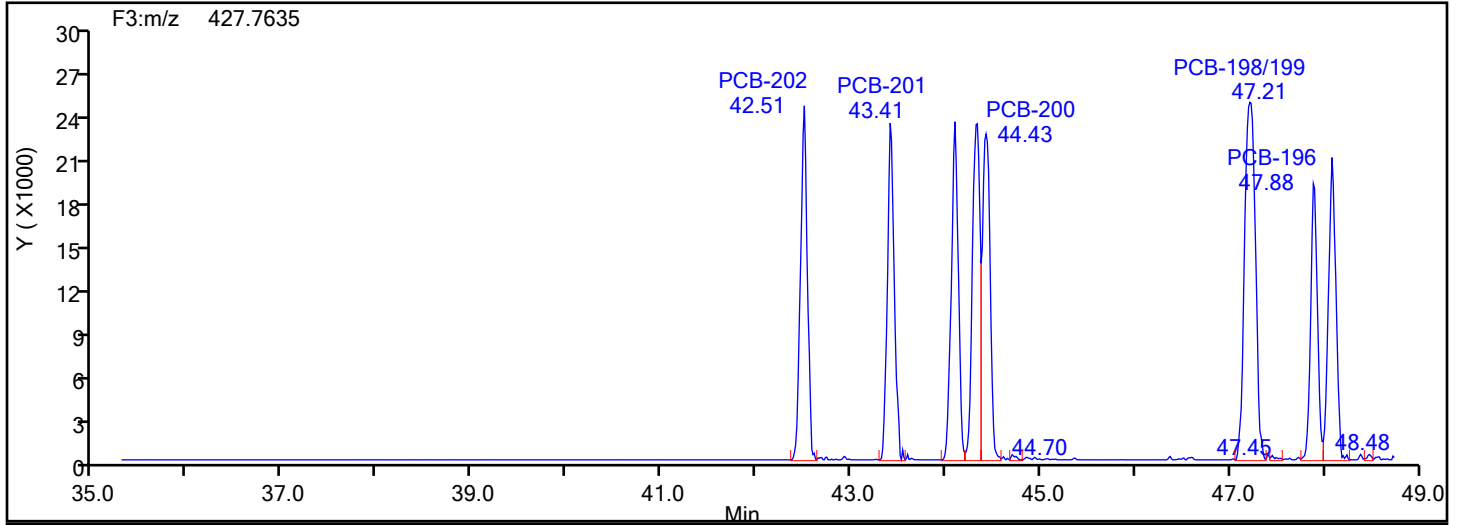
Worklist#: 87130

Sample Line#: 3

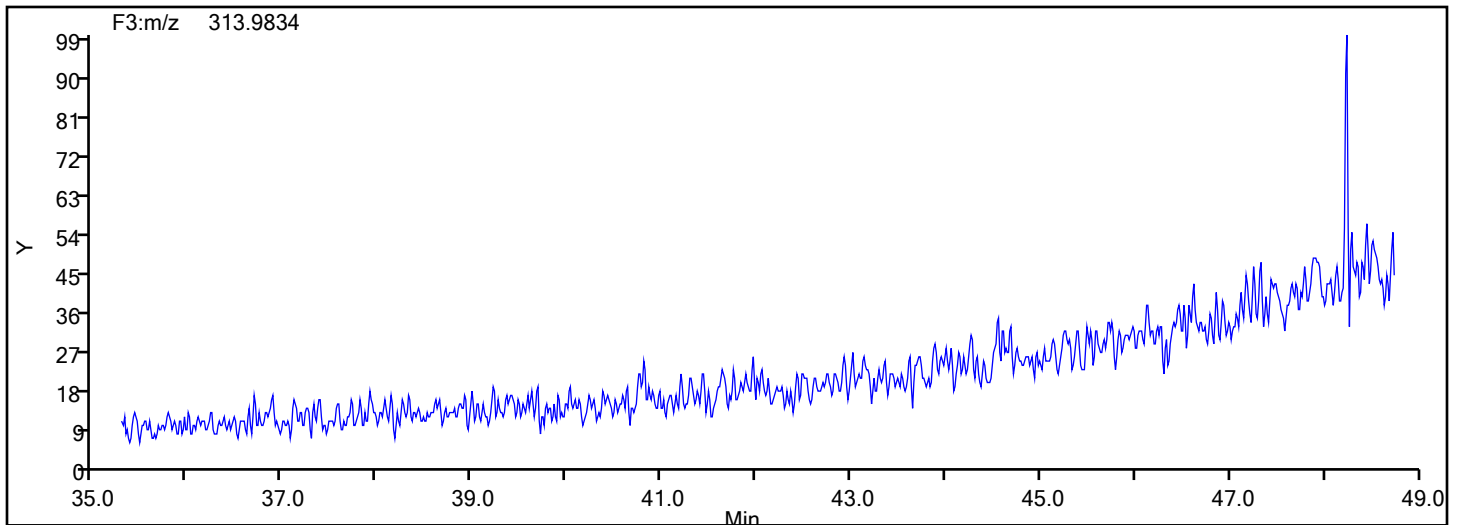
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

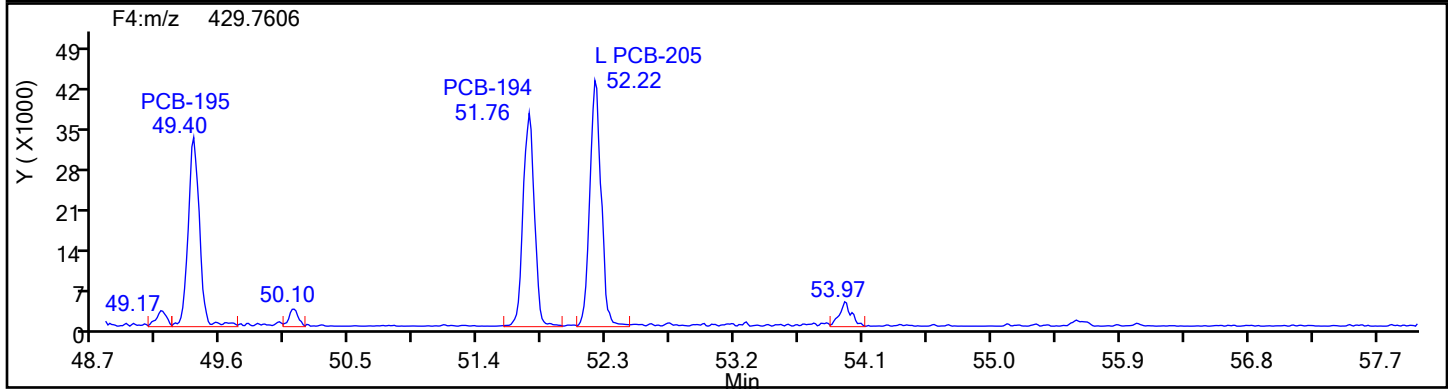
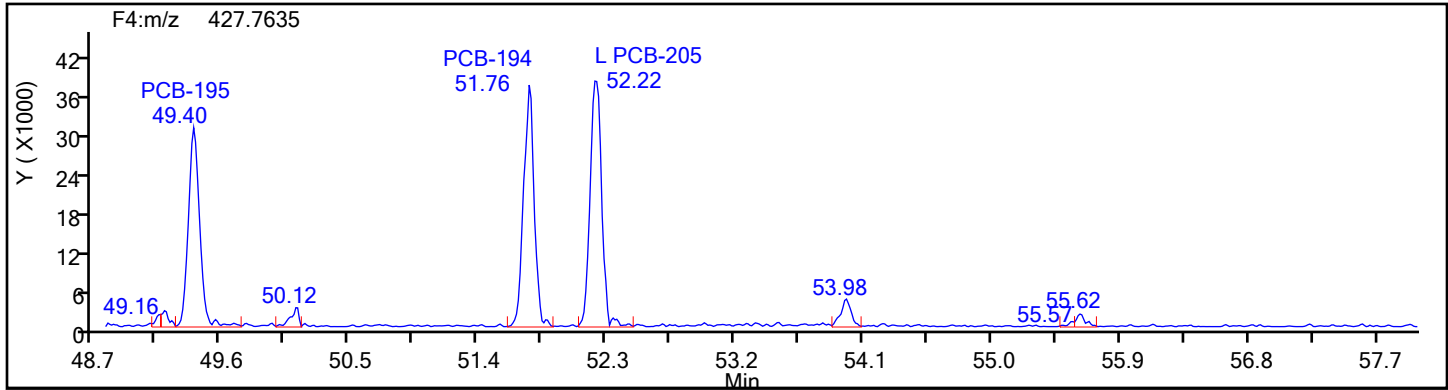
Worklist#: 87130

Sample Line#: 3

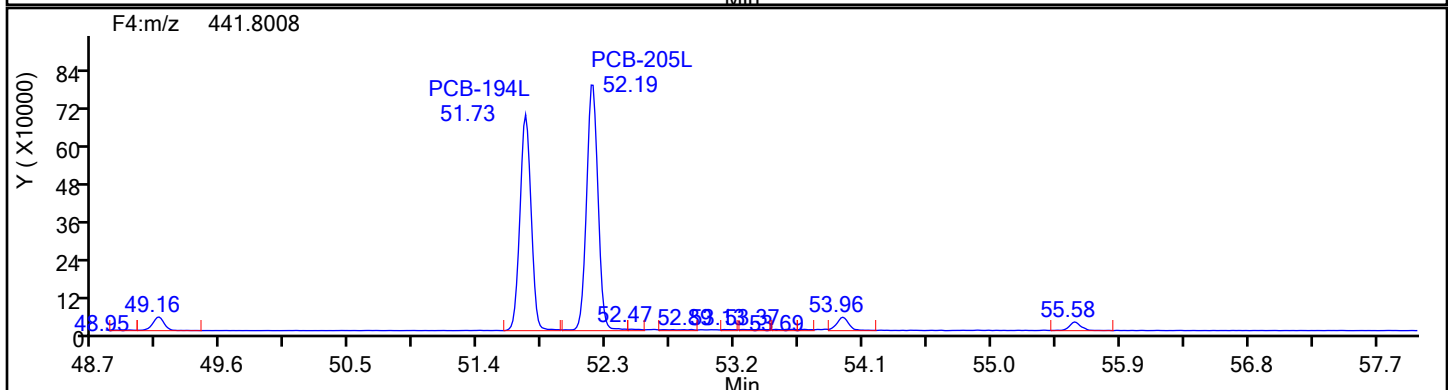
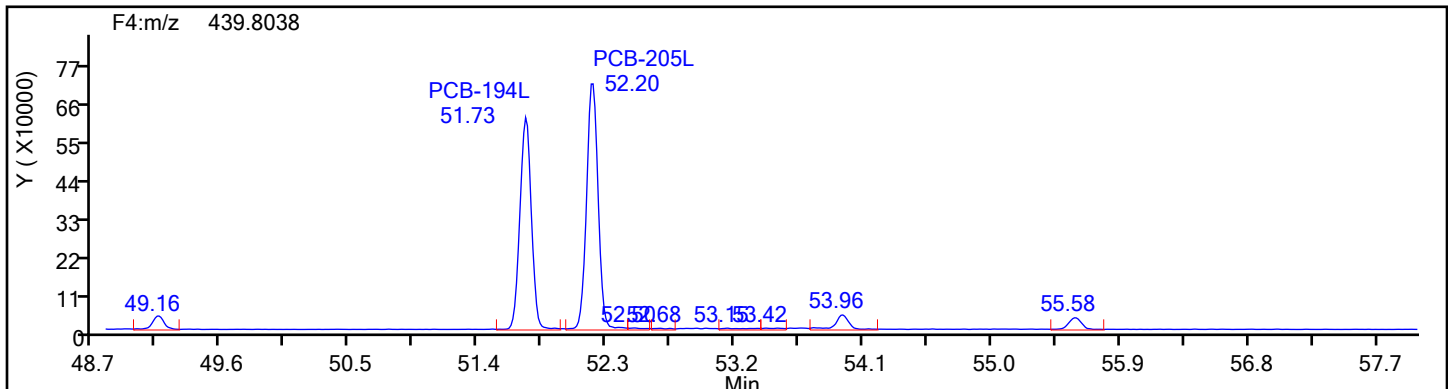
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

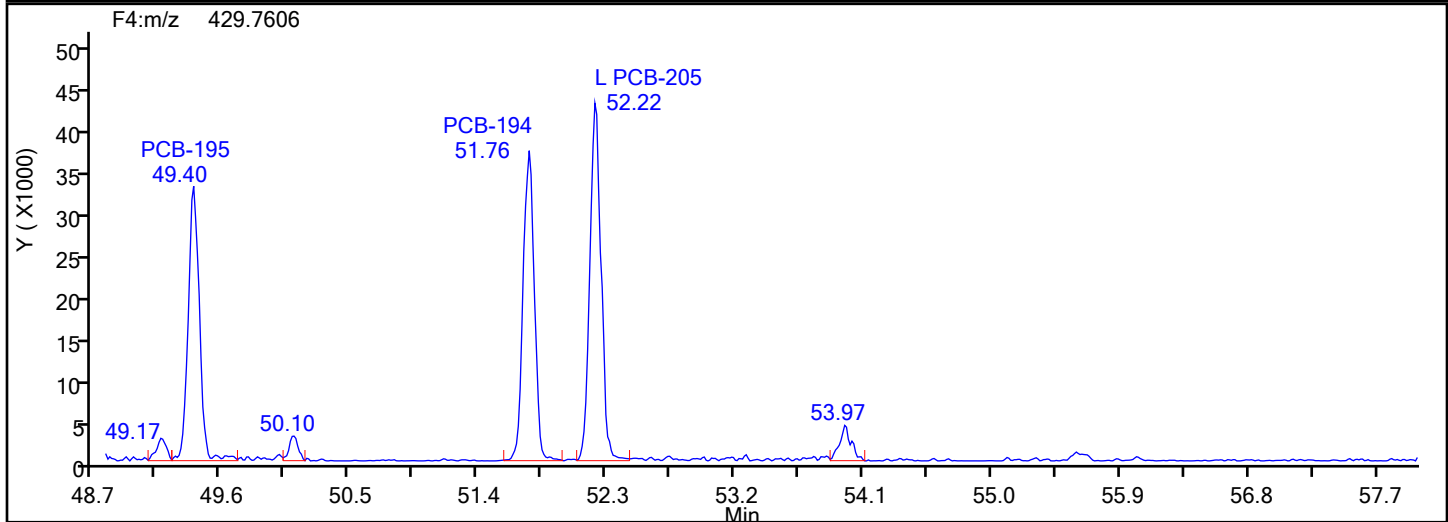
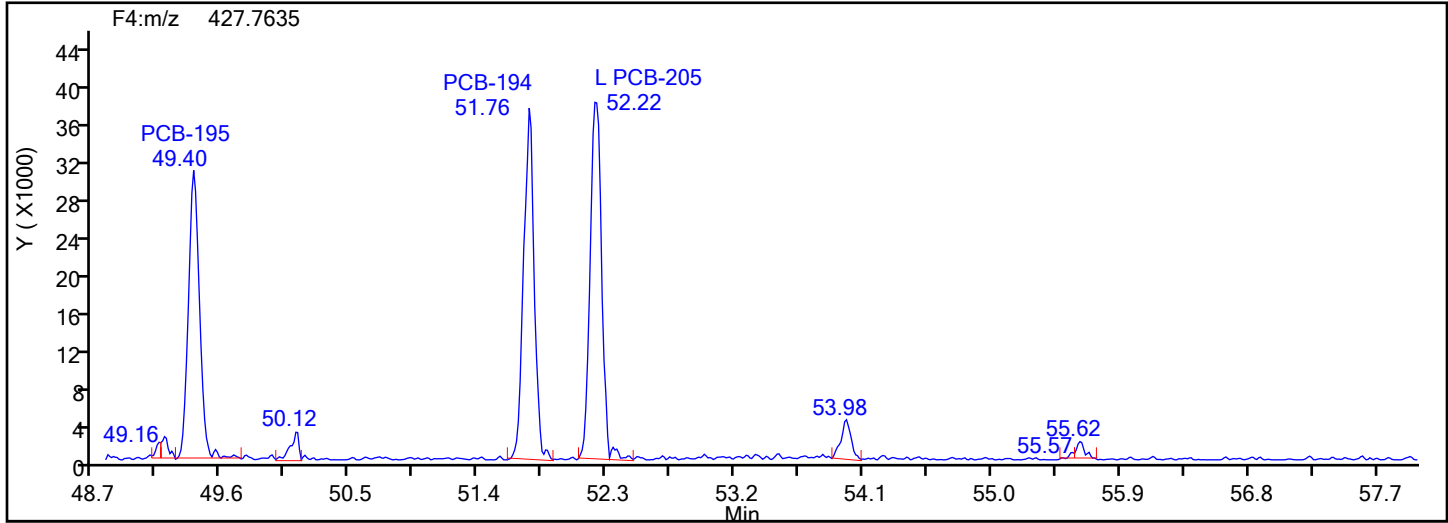
Worklist#: 87130

Sample Line#: 3

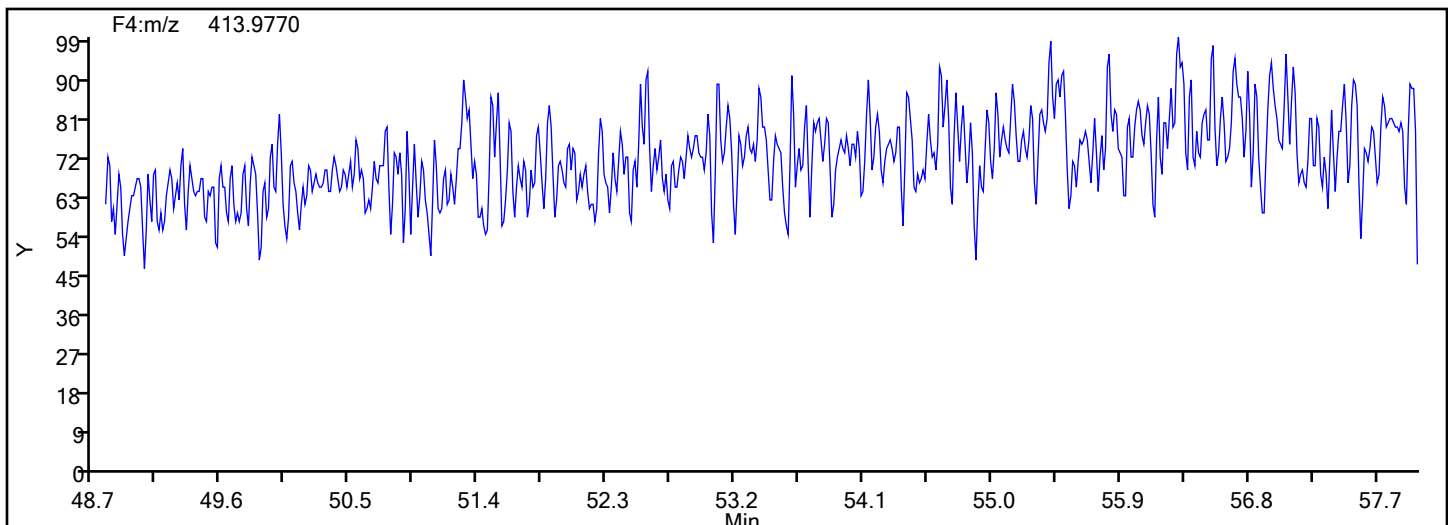
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

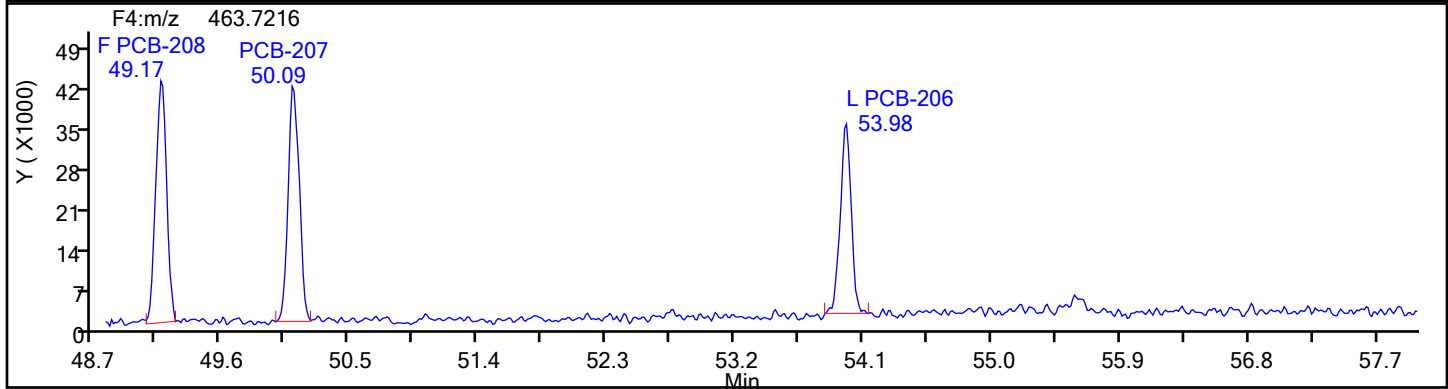
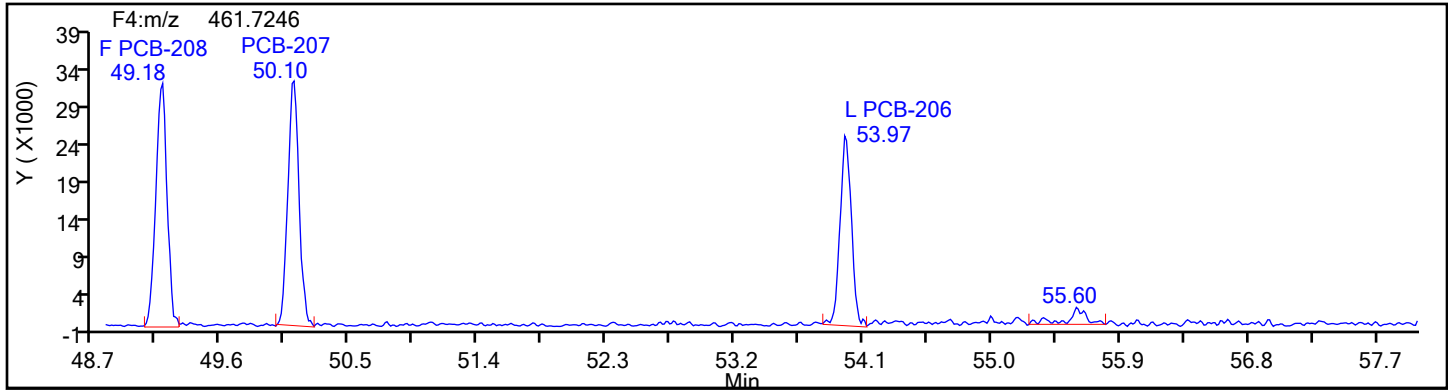


OcPCB F4 Lock Mass

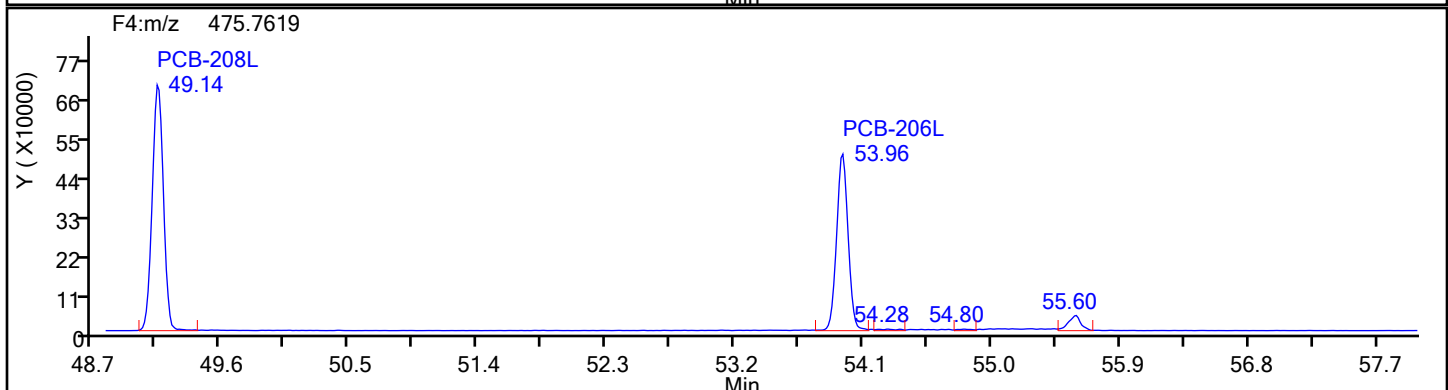
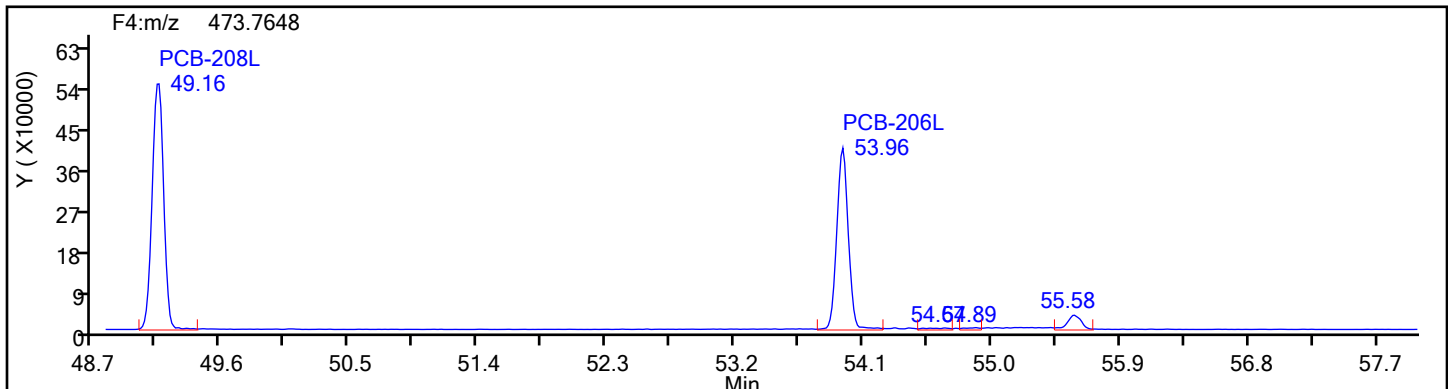


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

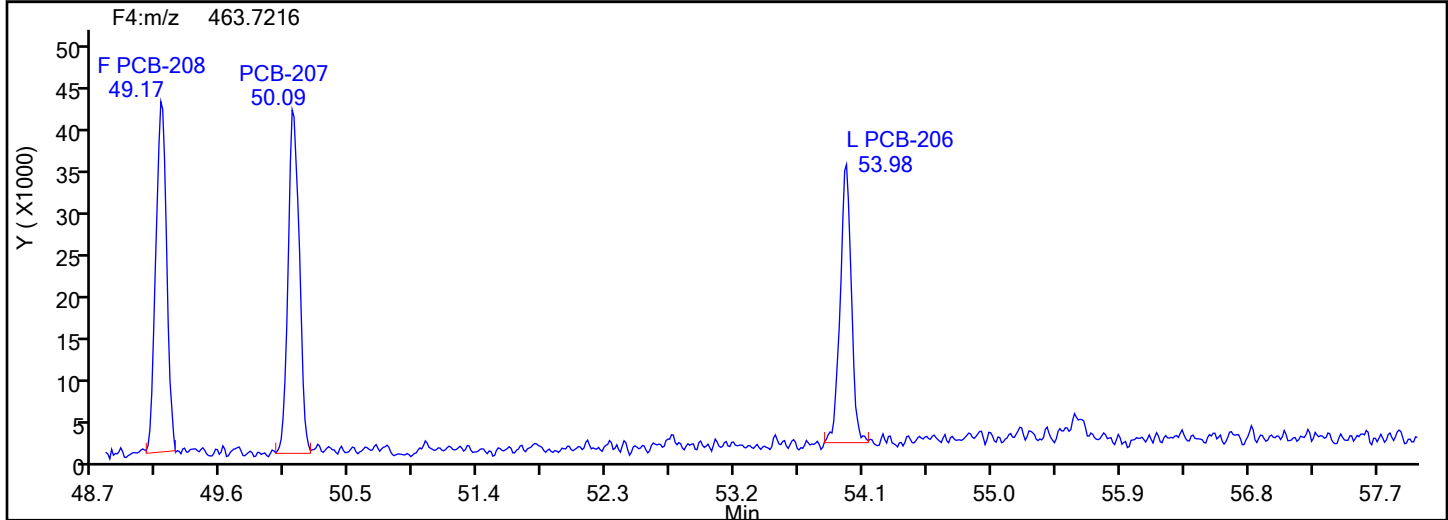
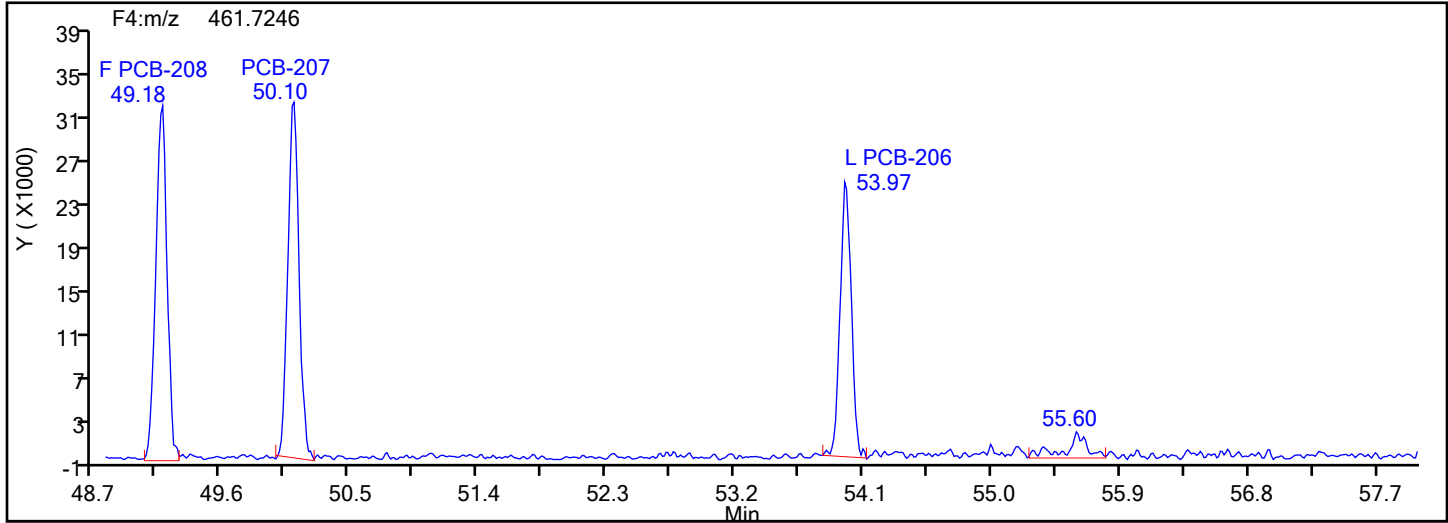
Worklist#: 87130

Sample Line#: 3

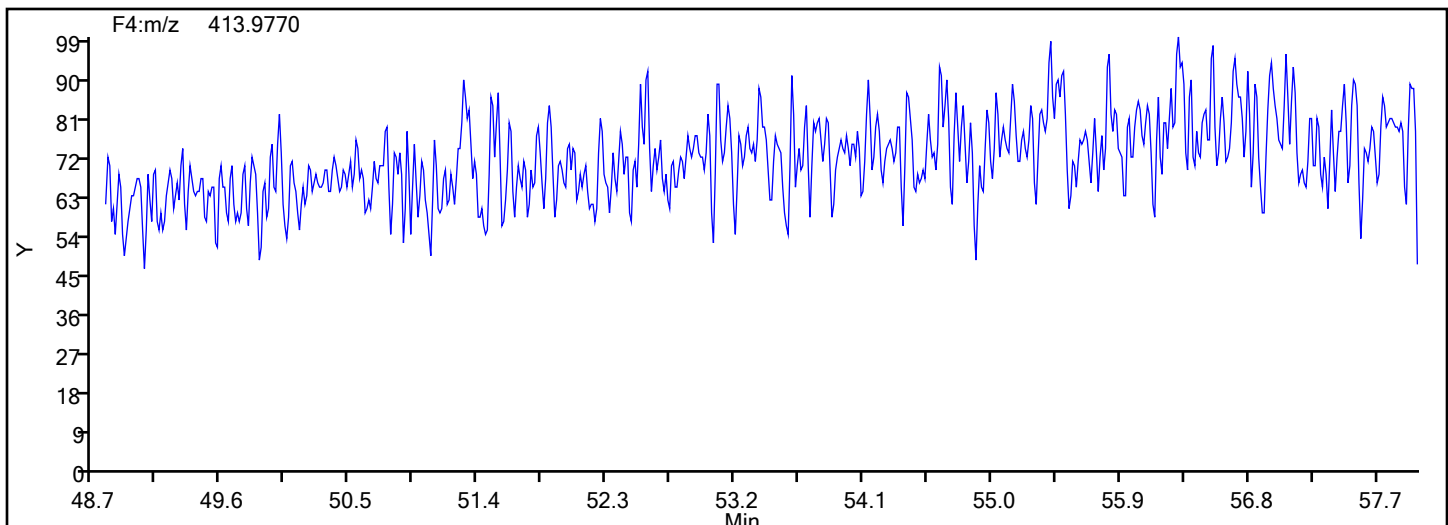
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

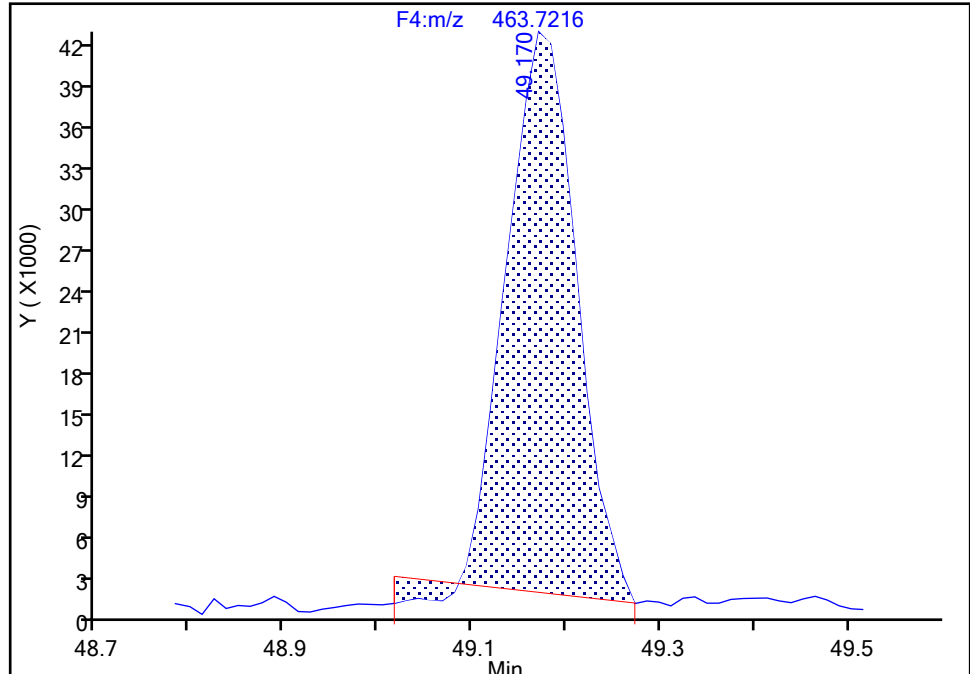
Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 2

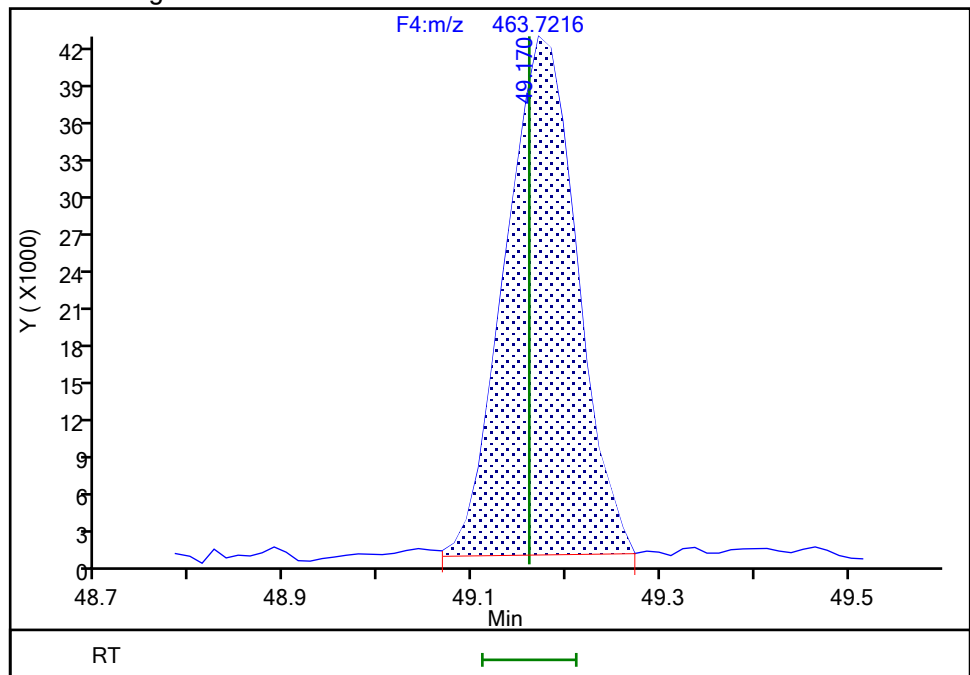
RT: 49.17
Area: 207739
Amount: 5.025504
Amount Units: pg/ul

Processing Integration Results



RT: 49.17
Area: 222670
Amount: 5.121125
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

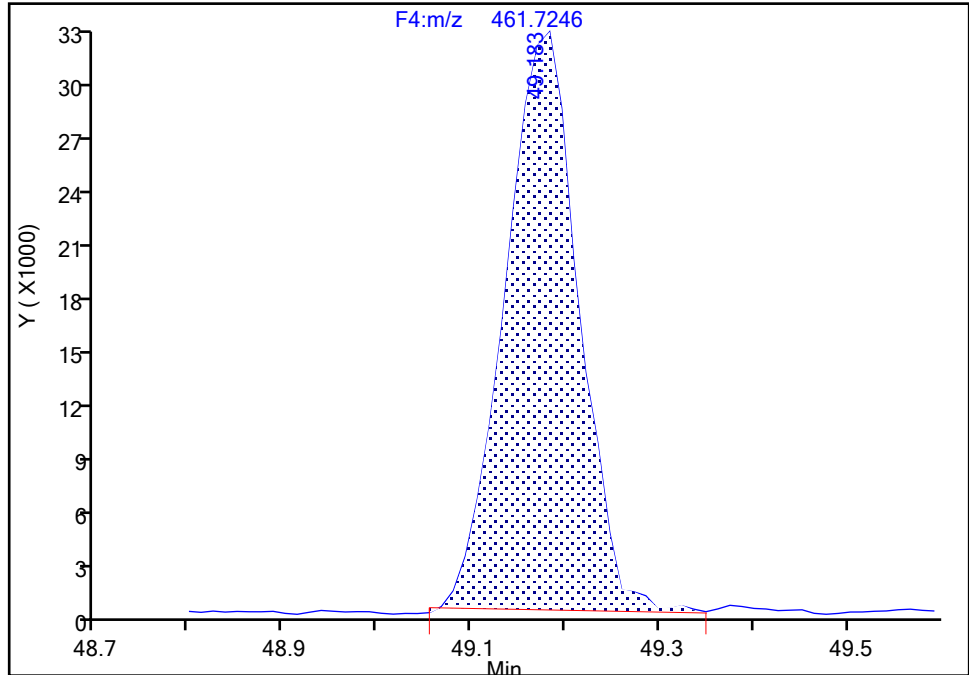
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D
Lims ID: IC L3
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-208, CAS: 52663-77-1

Signal: 1

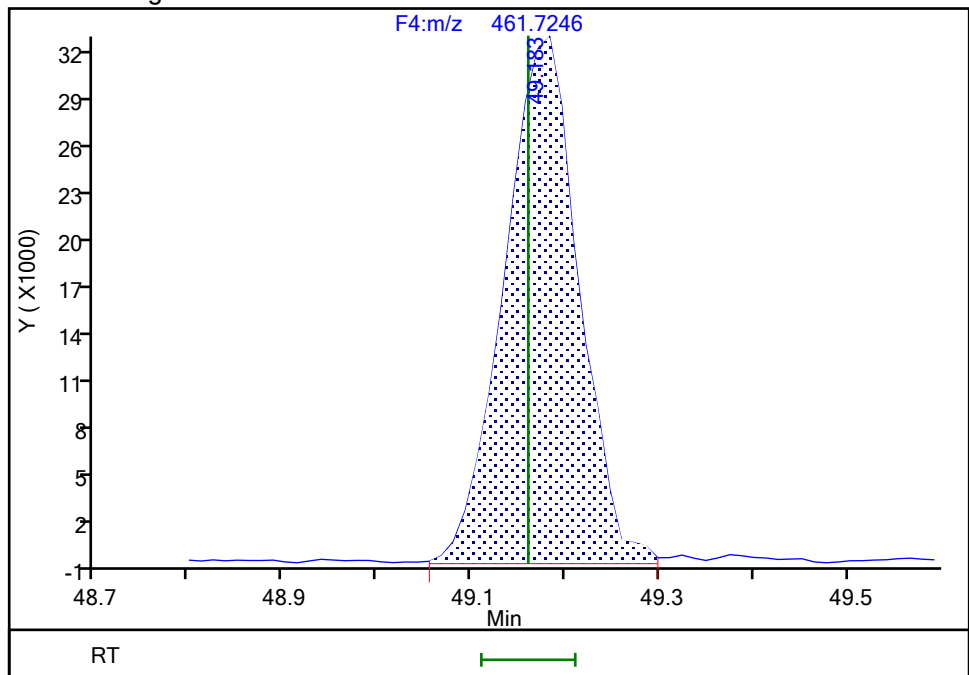
RT: 49.18
Area: 173223
Amount: 5.025504
Amount Units: pg/ul

Processing Integration Results



RT: 49.18
Area: 176905
Amount: 5.121125
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2027 of 3050

BASFWHC-McIntosh-010028

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

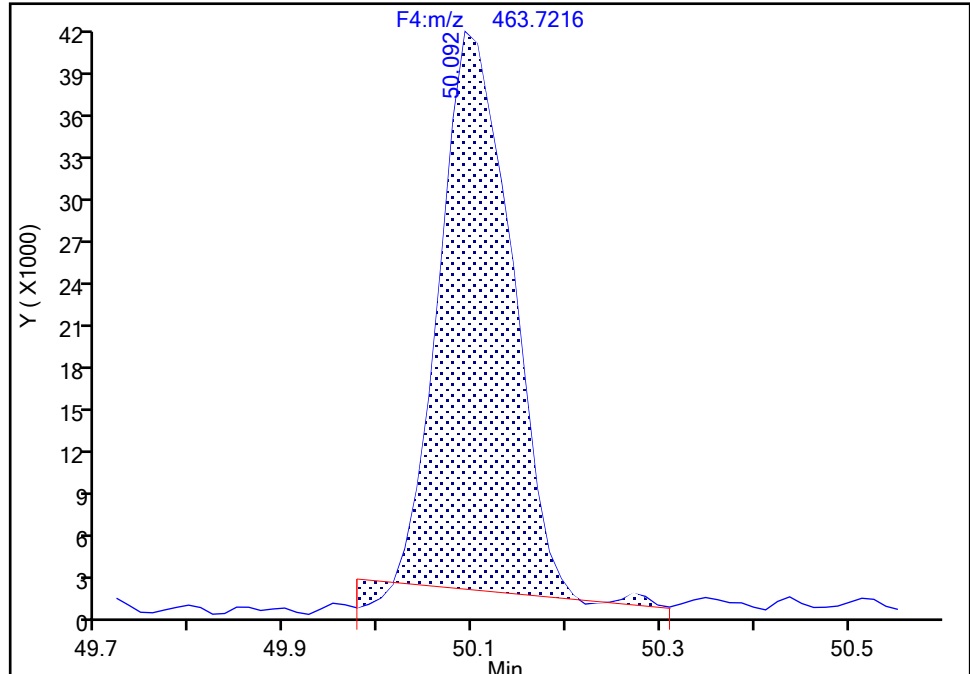
Detector F4(49.20 :57.50)

PCB-207, CAS: 52663-79-3

Signal: 2

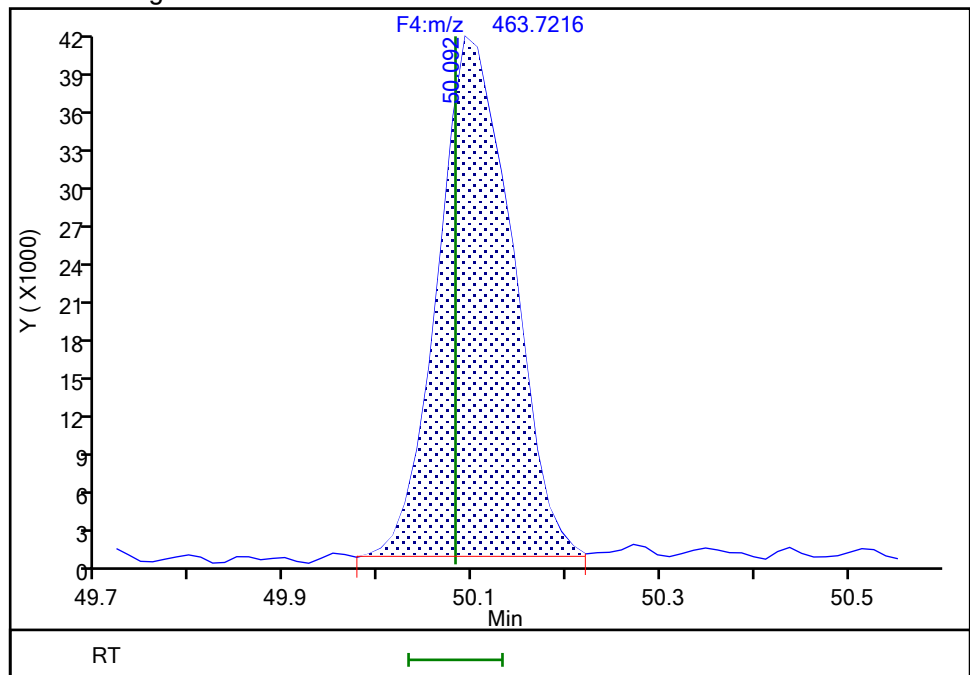
RT: 50.09
Area: 206224
Amount: 4.785694
Amount Units: pg/ul

Processing Integration Results



RT: 50.09
Area: 223758
Amount: 4.884898
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

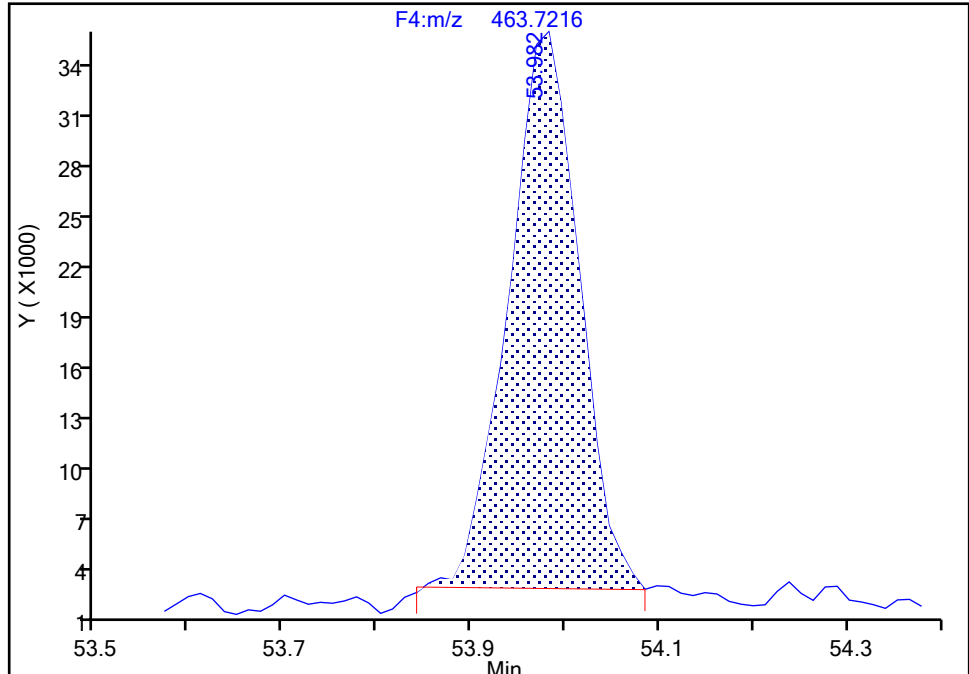
F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

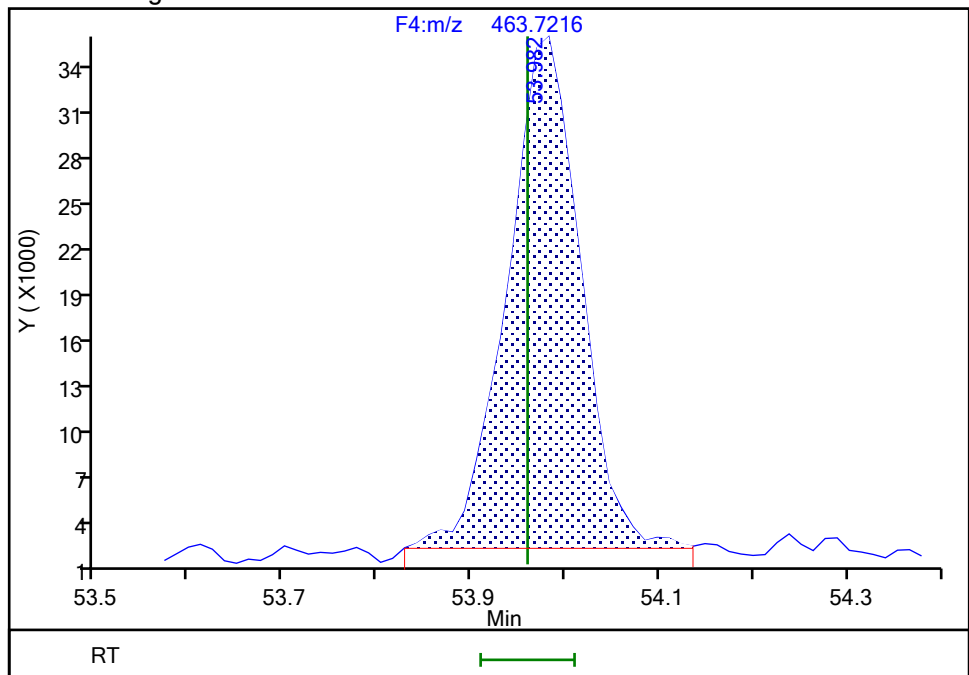
RT: 53.98
Area: 168889
Amount: 4.578046
Amount Units: pg/ul

Processing Integration Results



RT: 53.98
Area: 179481
Amount: 4.733555
Amount Units: pg/ul

Manual Integration Results



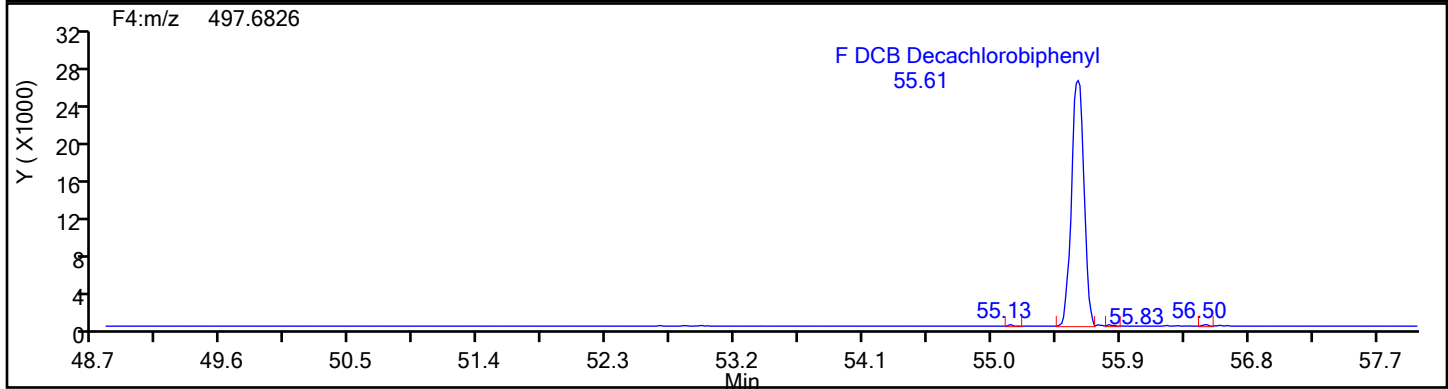
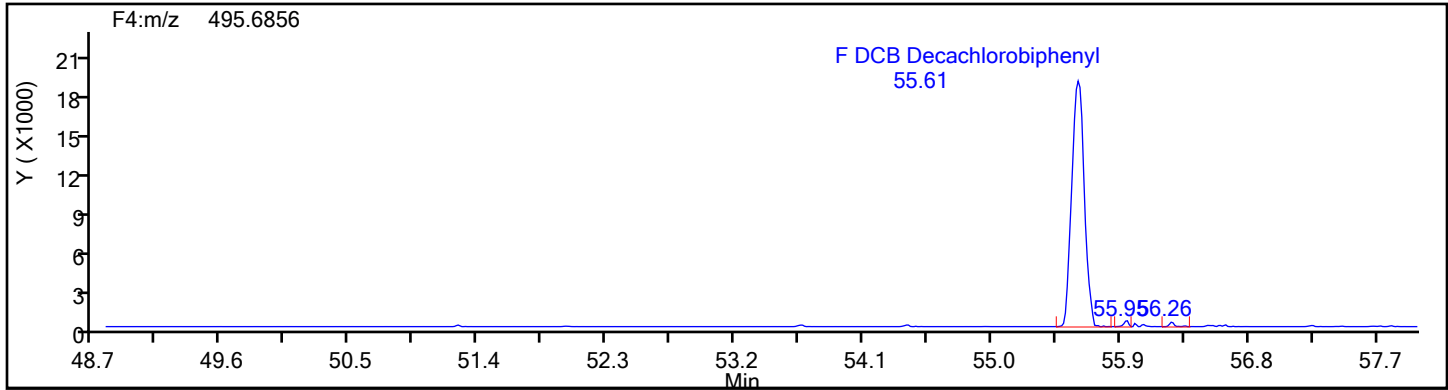
Reviewer: V4XA, 31-May-2024 21:51:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

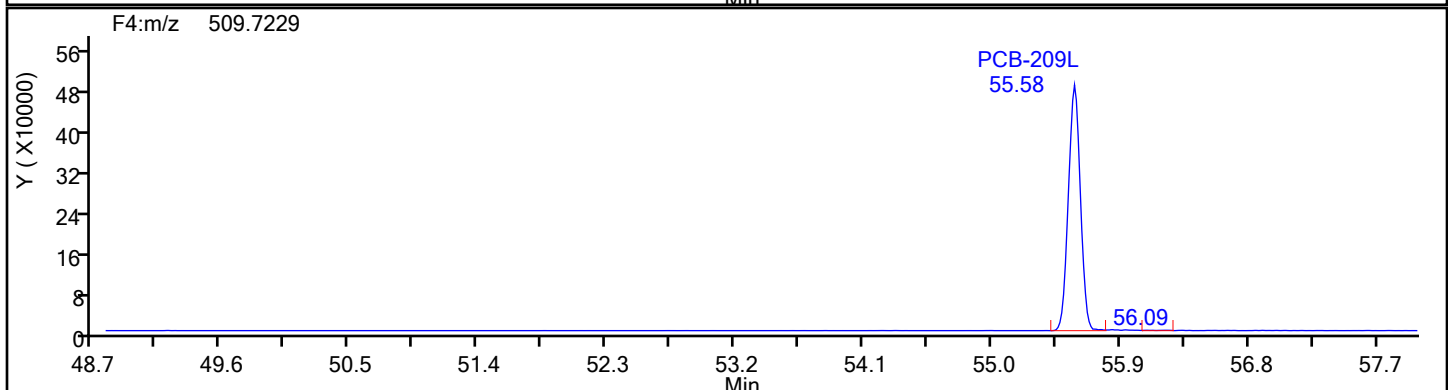
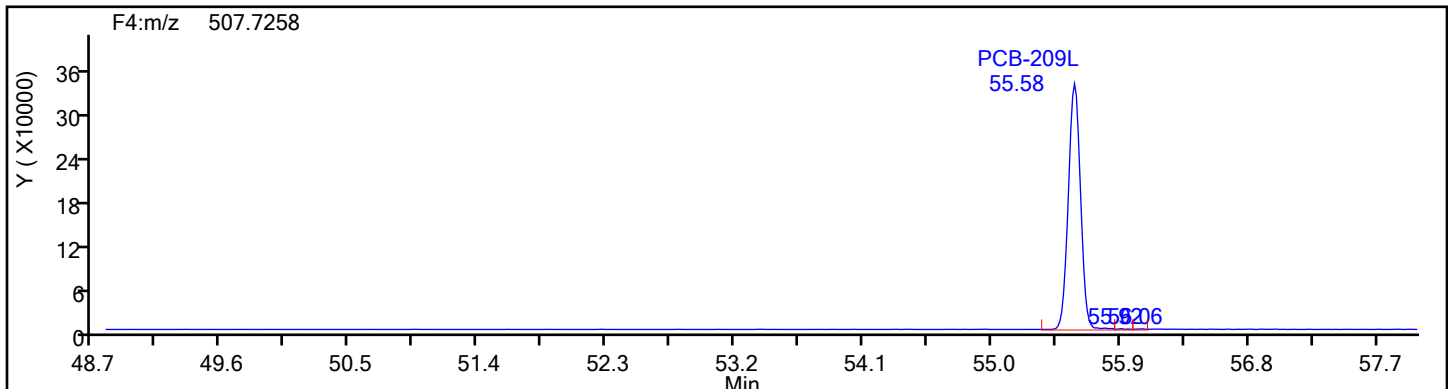
Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

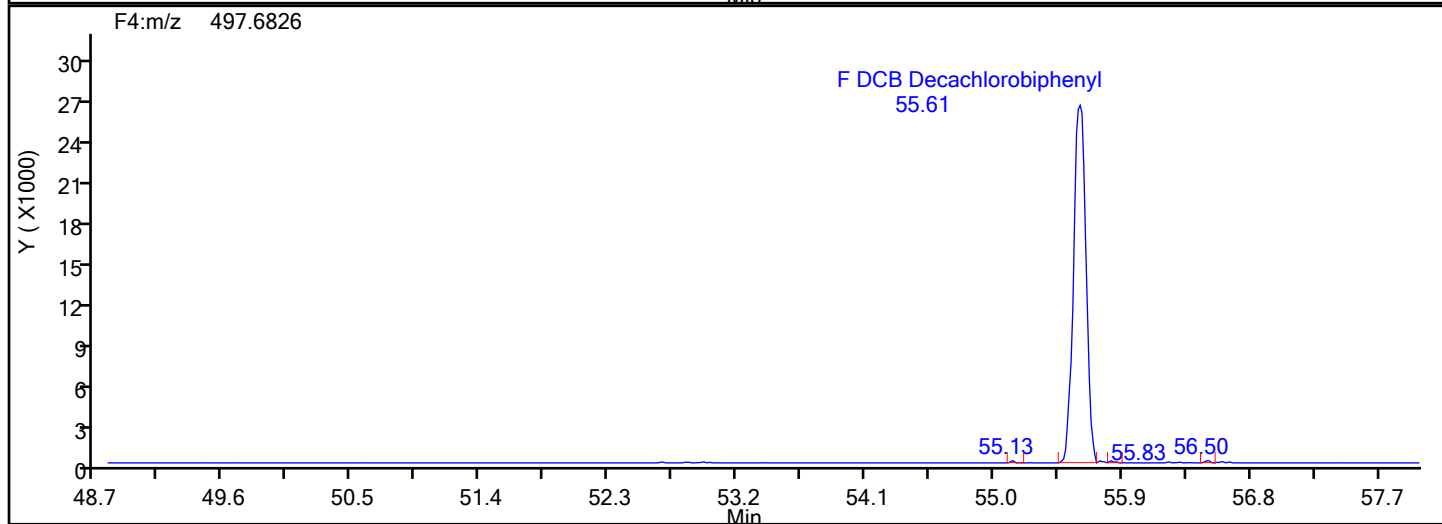
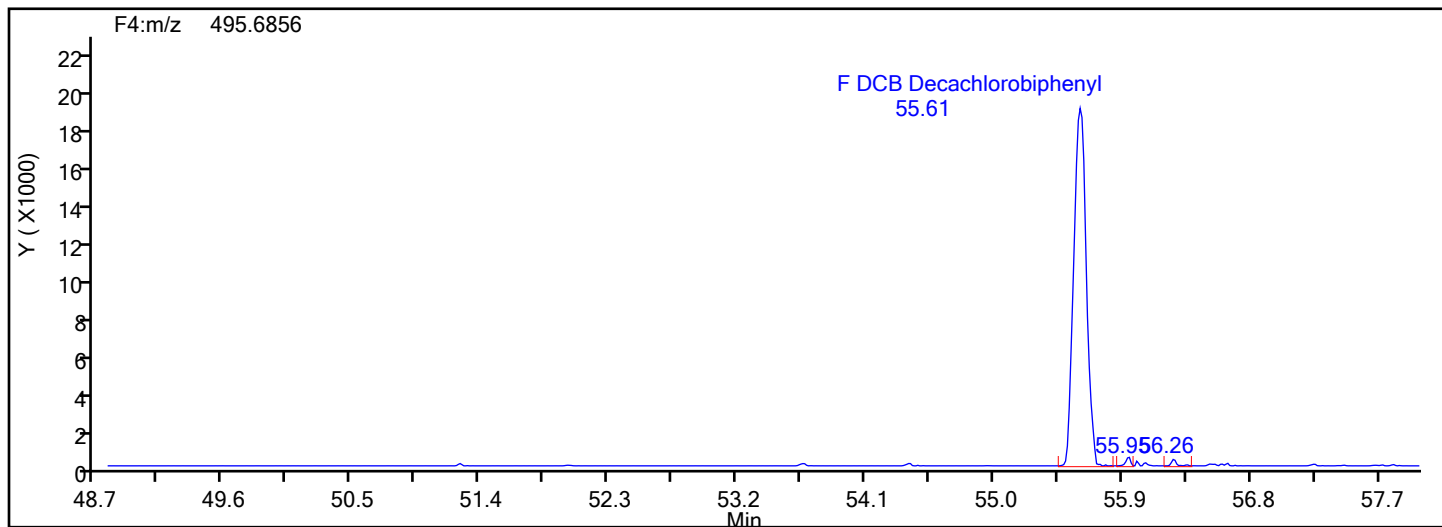
Worklist#: 87130

Sample Line#: 3

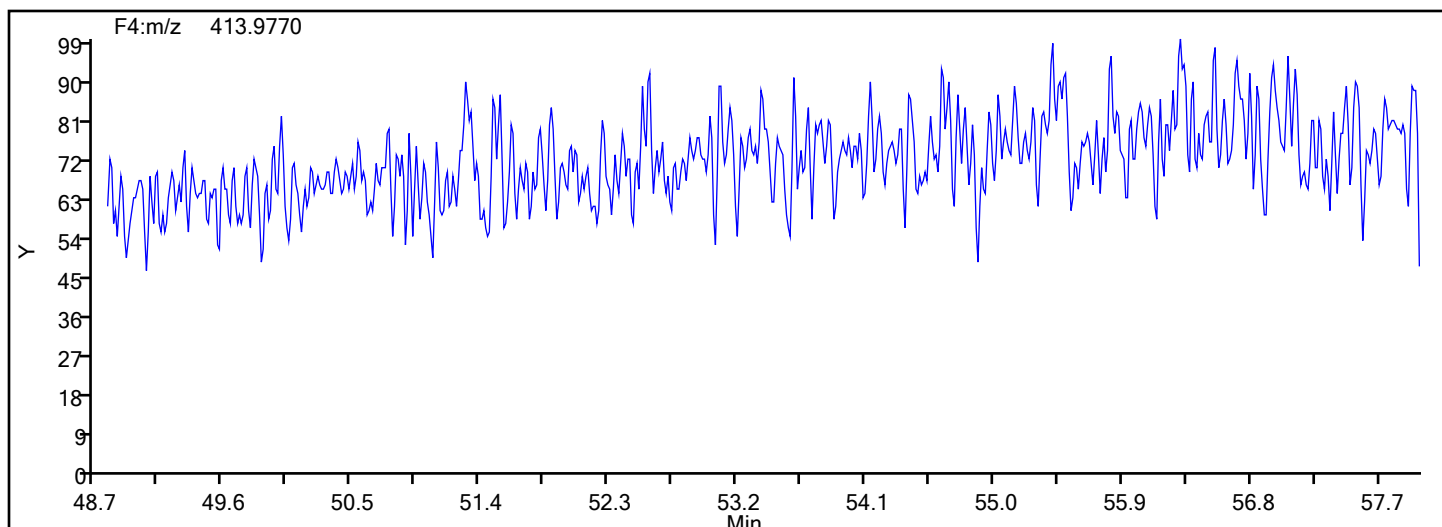
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-004
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Compound	RT (min.)	Area	Ratio	lcal RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					149.5	149.5	0.2043	0.2043		
D PCB-1L	11:36	13654287	3.17	1.6108	101.9	101.9	0.3060	0.3060	102	
D PCB-3L	13:46	13165806	3.18	1.5891	99.6	99.6	0.3101	0.3101	99.64	
PCB-1	11:37	8260359	3.19	1.2191	49.6	49.6	0.1822	0.1822	99.25	
PCB-2	13:36	7886042	3.16	1.1805	49.8	49.8	0.2074	0.2074	99.63	
PCB-3	13:47	8044849	3.08	1.2206	50.1	50.1	0.2233	0.2233	100	
S Total Dichlorobiphenyls					596.4	596.4	0.0398	0.0398		
D PCB-4L	14:02	5474214	1.57	0.6475	101.7	101.7	0.1177	0.1177	102	
* PCB-9L	15:59	8314907	1.64		100.0	100.0				
\$ PCB-8L	16:50	4194596	1.64	1.2066	48.5	48.5	0.0758	0.0758	97.04	
D PCB-15L	19:54	8855244	1.66	1.0789	98.7	98.7	0.0706	0.0706	98.71	
PCB-4	14:02	3479874	1.53	1.2818	49.6	49.6	0.0467	0.0467	99.18	
PCB-10	14:13	4792674	1.61	1.3149	50.9	50.9	0.0416	0.0416	102	
PCB-9	16:00	5083530	1.60	1.4224	49.9	49.9	0.0385	0.0385	99.76	
PCB-7	16:10	4950093	1.58	1.4134	48.9	48.9	0.0387	0.0387	97.76	
PCB-6	16:25	5408103	1.60	1.5421	48.9	48.9	0.0355	0.0355	97.90	
PCB-5	16:43	4844644	1.64	1.3395	50.5	50.5	0.0409	0.0409	101	
PCB-8	16:50	5621585	1.60	1.5889	49.4	49.4	0.0344	0.0344	98.76	
PCB-14	18:28	5066034	1.62	1.4025	50.4	50.4	0.0390	0.0390	101	
PCB-11	19:18	4598736	1.60	1.2951	49.6	49.6	0.0423	0.0423	99.12	
PCB-12	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-13 (C12)	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-15	19:55	5621988	1.64	1.2903	49.2	49.2	0.0391	0.0391	98.41	
S Total Trichlorobiphenyls					1185.4	1185.4	0.3790	0.3790		
D PCB-19L	17:08	3406868	1.06	0.6285	100.2	100.2	0.2286	0.2286	100	
* PCB-32L	20:23	5407330	1.09		100.0	100.0				
* PCB-31L	22:38	15561763	1.05		100.0	100.0				
\$ PCB-28L	22:56	7682166	1.04	1.0494	47.0	47.0	0.0838	0.0838	94.08	
D PCB-37L	26:55	13535671	1.07	0.8749	99.4	99.4	0.1006	0.1006	99.41	
PCB-19	17:09	2152324	1.07	1.2809	49.3	49.3	0.0278	0.0278	98.64	
PCB-18	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-30 (C18)	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-17	19:26	2122247	1.06	1.2430	50.1	50.1	0.0286	0.0286	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	3179572	1.04	1.8327	50.9	50.9	0.0194	0.0194	102	
PCB-24	19:46	2814319	1.03	1.6777	49.2	49.2	0.0212	0.0212	98.48	
PCB-16	19:53	1959828	1.08	1.1286	51.0	51.0	0.0316	0.0316	102	
PCB-32	20:23	3076908	1.05	1.8324	49.3	49.3	0.0194	0.0194	98.57	
PCB-34	21:39	7616885	1.06	1.1277	49.9	49.9	0.5753	0.5753	99.80	
PCB-23	21:48	7186368	1.05	1.0813	49.1	49.1	0.6000	0.6000	98.20	
PCB-26	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-29 (C26)	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-25	22:21	8444656	1.04	1.2728	49.0	49.0	0.5097	0.5097	98.03	
PCB-31	22:40	7458669	1.05	1.1532	47.8	47.8	0.5626	0.5626	95.56	
PCB-20	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-28 (C20)	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-21	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-33 (C21)	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-22	23:35	7874512	1.04	1.1932	48.8	48.8	0.5437	0.5437	97.51	
PCB-36	25:09	7632212	1.02	1.1071	50.9	50.9	0.5861	0.5861	102	
PCB-39	25:30	7752224	1.07	1.1581	49.5	49.5	0.5602	0.5602	98.90	
PCB-38	26:05	7153021	1.07	1.0843	48.7	48.7	0.5983	0.5983	97.47	
PCB-35	26:32	7562291	1.04	1.1297	49.5	49.5	0.5743	0.5743	98.91	
PCB-37	26:57	7589418	1.03	1.1435	49.0	49.0	0.5674	0.5674	98.07	
S Total Tetrachlorobiphenyls					2058.1	2058.1	0.5133	0.5133		
D PCB-54L	20:12	3125781	0.82	0.5562	103.9	103.9	0.0976	0.0976	104	
* PCB-52L	24:46	7876230	0.79		100.0	100.0				
\$ PCB-79L	32:41	4986068	0.80	1.0018	49.8	49.8	0.4360	0.4360	99.60	
D PCB-81L	33:41	9689577	0.80	1.2470	98.7	98.7	0.3954	0.3954	98.66	
D PCB-77L	34:14	10298891	0.81	1.3212	99.0	99.0	0.3732	0.3732	98.97	
PCB-54	20:13	2056772	0.78	1.2733	51.7	51.7	0.0450	0.0450	103	
PCB-50	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-53 (C50)	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-45	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-51 (C45)	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-46	23:22	3495887	0.77	0.7101	49.3	49.3	0.7965	0.7965	98.52	
PCB-52	24:47	4723711	0.77	0.9194	51.4	51.4	0.6151	0.6151	103	M
PCB-43	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-73 (C43)	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-49	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-69 (C49)	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-48	25:33	4096041	0.78	0.8399	48.8	48.8	0.6734	0.6734	97.59	
PCB-44	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-47 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-65 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-59	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-62 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-75 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-42	26:18	4062353	0.81	0.8097	50.2	50.2	0.6985	0.6985	100	
PCB-40	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-41 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-71 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-64	27:01	5640018	0.80	1.1776	47.9	47.9	0.4803	0.4803	95.85	
PCB-72	27:51	5513402	0.79	1.0943	50.4	50.4	0.5168	0.5168	101	
PCB-68	28:09	6342042	0.80	1.2533	50.6	50.6	0.4513	0.4513	101	
PCB-57	28:34	5445573	0.80	1.0818	50.4	50.4	0.5228	0.5228	101	
PCB-58	28:48	6808166	0.80	1.3253	51.4	51.4	0.4267	0.4267	103	
PCB-67	28:58	6875936	0.80	1.4230	48.3	48.3	0.3974	0.3974	96.69	
PCB-63	29:14	5498511	0.83	1.1240	48.9	48.9	0.5032	0.5032	97.90	
PCB-61	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-70 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-74 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-76 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-66	29:53	6312222	0.82	1.2583	50.2	50.2	0.4495	0.4495	100	
PCB-55	30:03	6483526	0.82	1.3236	49.0	49.0	0.4273	0.4273	98.02	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	6041547	0.81	1.2334	49.0	49.0	0.4585	0.4585	98.02	
PCB-60	30:46	5475280	0.80	1.1230	48.8	48.8	0.5036	0.5036	97.56	
PCB-80	31:11	6451950	0.77	1.3243	48.7	48.7	0.4271	0.4271	97.50	
PCB-79	32:42	6861599	0.79	1.4368	47.8	47.8	0.3936	0.3936	95.57	
PCB-78	33:15	5506314	0.78	1.1618	47.4	47.4	0.4868	0.4868	94.84	
PCB-81	33:42	5214743	0.78	1.0802	49.8	49.8	0.5270	0.5270	99.64	
PCB-77	34:16	5446719	0.76	1.0836	48.8	48.8	0.5186	0.5186	97.61	
S Total Pentachlorobiphenyls					2266.8	2266.8	0.2696	0.2696		
D PCB-104L	25:42	6455349	1.58	1.2161	101.5	101.5	0.0397	0.0397	102	
\$ PCB-95L	28:41	2314965	1.62	0.7218	49.7	49.7	0.0503	0.0503	99.37	
* PCB-101L	31:37	5228368	1.60		100.0	100.0				
\$ PCB-111L	34:17	3399701	1.59	1.3699	47.5	47.5	0.0353	0.0353	94.93	
D PCB-123L	36:15	9501201	1.57	0.9731	98.3	98.3	1.116	1.116	98.31	
D PCB-118L	36:34	10094764	1.57	1.0102	100.6	100.6	1.076	1.076	101	
D PCB-114L	37:06	9734953	1.60	0.9949	98.5	98.5	1.092	1.092	98.52	
D PCB-105L	37:45	9433900	1.59	0.9514	99.8	99.8	1.142	1.142	99.84	
* PCB-127L	39:14	9931738	1.57		100.0	100.0				
D PCB-126L	40:50	9388684	1.57	0.9439	100.2	100.2	1.151	1.151	100	
PCB-104	25:44	3284431	1.56	1.0087	50.4	50.4	0.0203	0.0203	101	
PCB-96	26:06	3505288	1.58	1.0940	49.6	49.6	0.0187	0.0187	99.27	
PCB-103	28:02	2810660	1.58	0.8741	49.8	49.8	0.0235	0.0235	99.62	
PCB-94	28:16	2353932	1.58	0.7640	47.7	47.7	0.0268	0.0268	95.46	
PCB-95	28:42	2613771	1.60	0.8033	50.4	50.4	0.0255	0.0255	101	
PCB-93	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-100 (C93)	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-98	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-102 (C98)	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-88	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-91 (C88)	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-84	29:47	2297413	1.57	0.7299	48.8	48.8	0.0281	0.0281	97.51	
PCB-89	30:16	2424086	1.59	0.7798	48.2	48.2	0.0263	0.0263	96.31	
PCB-121	30:41	4144482	1.64	1.2964	49.5	49.5	0.0158	0.0158	99.05	
PCB-92	31:03	2724348	1.60	0.8546	49.4	49.4	0.0240	0.0240	98.77	
PCB-90	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-101 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-113 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-83	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-99 (C83)	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-112	32:20	4359398	1.58	1.4111	47.9	47.9	0.0145	0.0145	95.71	
PCB-86	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-87 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-97 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-109 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-119 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-125 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-85	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-116 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-117 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-110	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-115 (C110)	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-82	33:55	2659391	1.54	0.8303	49.6	49.6	0.0247	0.0247	99.23	
PCB-111	34:19	3825096	1.57	1.2125	48.9	48.9	0.0169	0.0169	97.74	
PCB-120	34:47	4697232	1.59	1.4762	49.3	49.3	0.0139	0.0139	98.58	
PCB-108	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-124 (C108)	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-107	36:09	5897415	1.57	1.2121	50.5	50.5	0.7248	0.7248	101	
PCB-123	36:16	5033992	1.69	1.0722	49.4	49.4	0.8206	0.8206	98.83	
PCB-106	36:23	5140106	1.45	1.0839	49.2	49.2	0.8105	0.8105	98.48	
PCB-118	36:36	6016008	1.58	1.2055	49.4	49.4	0.6916	0.6916	98.87	
PCB-122	36:56	4709445	1.58	0.9567	51.1	51.1	0.9182	0.9182	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	5307527	1.60	1.0842	50.3	50.3	0.7830	0.7830	101	
PCB-105	37:46	5526391	1.56	1.1879	49.3	49.3	0.7574	0.7574	98.63	
PCB-127	39:15	5642766	1.59	1.1394	51.4	51.4	0.7710	0.7710	103	
PCB-126	40:52	5411840	1.55	1.0976	52.5	52.5	0.8545	0.8545	105	
S Total Hexachlorobiphenyls					2088.6	2088.6	0.2613	0.2613		
D PCB-155L	31:23	5786925	1.29	1.0851	102.0	102.0	0.0250	0.0250	102	
\$ PCB-153L	38:27	3417541	1.31	0.9169	45.8	45.8	0.9578	0.9578	91.68	
* PCB-138L	39:41	6594689	1.30		100.0	100.0				
\$ PCB-159L	41:56	4385171	1.29	0.5118	102.9	102.9	1.435	1.435	103	
D PCB-167L	42:42	8329121	1.28	1.2572	100.5	100.5	0.7283	0.7283	100	
D PCB-156L	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-157L (C156L)	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-169L	47:05	8145884	1.28	1.2439	99.3	99.3	0.7361	0.7361	99.31	
PCB-155	31:25	2757196	1.29	0.9444	50.4	50.4	0.006493	0.006493	101	
PCB-152	31:36	2752865	1.25	0.9895	48.1	48.1	0.006197	0.006197	96.15	
PCB-150	31:46	2933125	1.28	1.0132	50.0	50.0	0.006052	0.006052	100	
PCB-136	32:08	2858801	1.28	1.0116	48.8	48.8	0.006062	0.006062	97.67	
PCB-145	32:25	2773933	1.29	0.9685	49.5	49.5	0.006331	0.006331	98.99	
PCB-148	33:57	2176255	1.30	0.7603	49.5	49.5	0.008065	0.008065	98.93	
PCB-135	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-151 (C135)	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-154	34:47	2371495	1.28	0.8129	50.4	50.4	0.007543	0.007543	101	
PCB-144	35:06	2232331	1.26	0.7852	49.1	49.1	0.007809	0.007809	98.25	
PCB-147	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-149 (C147)	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-134	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-143 (C134)	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-139	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-140 (C139)	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-131	36:15	3018928	1.27	0.7503	49.5	49.5	0.4549	0.4549	98.97	M
PCB-142	36:24	3115155	1.25	0.7507	51.0	51.0	0.4547	0.4547	102	M
PCB-132	36:43	2979191	1.25	0.7489	48.9	48.9	0.4558	0.4558	97.85	
PCB-133	37:14	3245992	1.28	0.8096	49.3	49.3	0.4216	0.4216	98.62	
PCB-165	37:37	4186901	1.30	1.0247	50.3	50.3	0.3331	0.3331	101	
PCB-146	37:52	3845405	1.27	0.9637	49.1	49.1	0.3542	0.3542	98.15	
PCB-161	38:00	4666072	1.28	1.1288	50.8	50.8	0.3024	0.3024	102	
PCB-153	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-168 (C153)	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-141	38:41	3461353	1.29	0.8755	48.6	48.6	0.3899	0.3899	97.25	
PCB-130	39:05	2838645	1.29	0.7051	49.5	49.5	0.4841	0.4841	99.02	
PCB-137	39:18	3298456	1.24	0.7767	52.2	52.2	0.4395	0.4395	104	
PCB-164	39:26	4200180	1.28	1.0382	49.8	49.8	0.3288	0.3288	99.51	
PCB-129	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-138 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-160 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-163 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-158	40:07	5319521	1.25	1.3110	49.9	49.9	0.2604	0.2604	99.80	
PCB-128	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-166 (C128)	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-159	41:58	5578541	1.29	1.3856	49.5	49.5	0.2463	0.2463	99.03	
PCB-162	42:15	5046359	1.24	1.2571	49.4	49.4	0.2715	0.2715	98.74	
PCB-167	42:44	4608166	1.28	1.1159	49.6	49.6	0.2558	0.2558	99.16	
PCB-156	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-157 (C156)	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-169	47:06	4858941	1.28	1.1628	51.3	51.3	0.2522	0.2522	103	
S Total Heptachlorobiphenyls					1208.3	1208.3	0.0110	0.0110		
D PCB-188L	37:07	6587579	1.06	1.3133	100.8	100.8	0.0326	0.0326	101	
\$ PCB-178L	40:10	2454141	1.07	1.0313	47.8	47.8	0.0415	0.0415	95.61	
* PCB-180L	45:15	4977558	1.07		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4156589	1.07	0.8362	99.9	99.9	0.0512	0.0512	99.86	
D PCB-189L	49:37	10070777	1.06	1.4414	99.7	99.7	0.4358	0.4358	99.65	
PCB-188	37:08	3706640	1.06	1.1350	49.6	49.6	0.001884	0.001884	99.15	
PCB-179	37:28	3733944	1.05	1.4276	48.7	48.7	0.001869	0.001869	97.38	
PCB-184	38:00	3714498	1.04	1.3672	50.6	50.6	0.001951	0.001951	101	
PCB-176	38:21	3337458	1.06	1.2331	50.4	50.4	0.002164	0.002164	101	
PCB-186	38:48	4051516	1.07	1.4737	51.2	51.2	0.001810	0.001810	102	
PCB-178	40:11	2440485	1.05	0.8946	50.8	50.8	0.002982	0.002982	102	
PCB-175	40:49	2569891	1.05	0.9524	50.2	50.2	0.002801	0.002801	100	
PCB-187	41:05	3023234	1.04	1.1018	51.1	51.1	0.002421	0.002421	102	
PCB-182	41:18	2647036	1.05	0.9247	53.3	53.3	0.002885	0.002885	107	
PCB-183	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-185 (C183)	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-174	41:56	2681848	1.06	0.9642	51.8	51.8	0.002767	0.002767	104	
PCB-177	42:22	2633576	1.00	0.9773	50.2	50.2	0.002730	0.002730	100	
PCB-181	42:45	2521026	1.08	0.9505	49.4	49.4	0.002807	0.002807	98.74	
PCB-171	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-173 (C171)	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-172	44:37	2347963	1.05	0.8519	51.3	51.3	0.003132	0.003132	103	
PCB-192	44:54	3758142	1.06	1.3459	52.0	52.0	0.001982	0.001982	104	
PCB-180	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-193 (C180)	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-191	45:37	3590548	1.05	1.2891	51.8	51.8	0.002069	0.002069	104	
PCB-170	46:32	2504084	1.04	1.1865	50.8	50.8	0.002987	0.002987	102	
PCB-190	47:02	3582145	1.06	1.3322	50.1	50.1	0.002002	0.002002	100	
PCB-189	49:38	4928731	1.04	0.9633	50.8	50.8	0.1812	0.1812	102	
S Total Octachlorobiphenyls					612.5	612.5	0.0700	0.0700		
D PCB-202L	42:28	4754288	0.90	0.9818	97.3	97.3	0.0212	0.0212	97.28	
* PCB-194L	51:43	7011099	0.92		100.0	100.0				
D PCB-205L	52:11	8337493	0.91	1.1786	100.9	100.9	0.0820	0.0820	101	
PCB-202	42:29	2654251	0.89	1.0359	53.9	53.9	0.0331	0.0331	108	
PCB-201	43:25	2419114	0.90	0.9754	52.2	52.2	0.0352	0.0352	104	
PCB-204	44:05	2562540	0.91	1.0485	51.4	51.4	0.0327	0.0327	103	
PCB-197	44:19	2790933	0.91	1.1458	51.2	51.2	0.0300	0.0300	102	
PCB-200	44:25	2461217	0.92	1.0072	51.4	51.4	0.0341	0.0341	103	
PCB-198	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-199 (C198)	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-196	47:53	1892682	0.92	0.7806	51.0	51.0	0.0440	0.0440	102	
PCB-203	48:05	2289580	0.93	0.9292	51.8	51.8	0.0369	0.0369	104	
PCB-195	49:23	3431947	0.91	0.8263	49.8	49.8	0.1859	0.1859	99.63	
PCB-194	51:44	3967420	0.90	0.9735	48.9	48.9	0.1578	0.1578	97.76	
PCB-205	52:13	4478090	0.90	1.0878	49.4	49.4	0.1412	0.1412	98.75	
S Total Nonachlorobiphenyls					146.1	146.1	0.2808	0.2808		
D PCB-208L	49:09	6680775	0.81	0.9576	99.5	99.5	0.2875	0.2875	99.51	
D PCB-206L	53:57	4903942	0.82	0.6947	100.7	100.7	0.3963	0.3963	101	
PCB-208	49:10	3774592	0.80	1.1374	49.7	49.7	0.2671	0.2671	99.34	
PCB-207	50:05	3878521	0.81	1.3756	48.7	48.7	0.2574	0.2574	97.35	
PCB-206	53:58	3124562	0.77	1.3346	47.7	47.7	0.3178	0.3178	95.48	M
D PCB-209L	55:34	4723291	0.71	0.6669	101.0	101.0	0.0521	0.0521	101	
DCB Decachlorobiphenyl	55:36	2603740	0.72	1.1004	50.1	50.1	0.0318	0.0318	100	
S Polychlorinated biphenyls, Total					10212	10212	0.2063	0.2063		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61CV1668CS3_00019

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-004
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	0	0.726	10378292	4043023	3400	8500	1189		
202.0766	11:36	11:36	0	0.726	3275995	1290206	1313	3282	983	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:46	0	0.861	10013550	3298535	3400	8500	970		
202.0766	13:46	13:46	0	0.861	3152256	1047697	1313	3282	798	3.18(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	0	1.001	6290617	2506209	3342	8355	750		
190.0363	11:37	11:37	0	1.001	1969742	792083	1397	3492	567	3.19(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	0	0.989	5988227	2039269	3342	8355	610		
190.0363	13:36	13:36	0	0.989	1897815	648319	1397	3492	464	3.16(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	0	1.001	6073593	2001565	3342	8355	599		
190.0363	13:47	13:47	0	1.001	1971256	645771	1397	3492	462	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3346902	1112979	579	1447	1922		
236.0376	14:02	14:02	0	0.877	2127312	706863	150	375	4712	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		5162483	1476828	579	1447	2551		
236.0376	15:59	15:59	0		3152424	913781	150	375	6092	1.64(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	0	1.200	2605493	729678	579	1447	1260		
236.0376	16:50	16:50	0	1.200	1589103	443557	150	375	2957	1.64(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.245	5520100	1337303	579	1447	2310		
236.0376	19:54	19:54	0	1.245	3335144	825967	150	375	5506	1.66(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	0	1.001	2103864	704389	136	340	5179		
223.9974	14:02	14:02	0	1.001	1376010	460635	300	750	1535	1.53(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	2953900	957858	136	340	7043		
223.9974	14:13	14:13	0	1.013	1838774	593970	300	750	1980	1.61(1.33-1.79)	
PCB-9											
222.0003	16:00	16:00	0	1.141	3130109	895194	136	340	6582		
223.9974	16:00	16:00	0	1.141	1953421	563607	300	750	1879	1.60(1.33-1.79)	
PCB-7											
222.0003	16:10	16:10	0	1.153	3033451	871987	136	340	6412		
223.9974	16:10	16:10	0	1.153	1916642	545950	300	750	1820	1.58(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	3328817	918018	136	340	6750		
223.9974	16:25	16:25	0	1.171	2079286	571130	300	750	1904	1.60(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	3011145	834355	136	340	6135		
223.9974	16:43	16:43	0	1.192	1833499	505008	300	750	1683	1.64(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	0	1.201	3460322	945337	136	340	6951		
223.9974	16:50	16:50	0	1.201	2161263	601345	300	750	2004	1.60(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	0	0.927	3129135	806908	136	340	5933		
223.9974	18:28	18:28	0	0.927	1936899	488798	300	750	1629	1.62(1.33-1.79)	
PCB-11											
222.0003	19:18	19:18	0	0.970	2828865	696910	136	340	5124		
223.9974	19:18	19:18	0	0.970	1769871	445361	300	750	1485	1.60(1.33-1.79)	
PCB-12											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-15											
222.0003	19:55	19:55	0	1.001	3493572	837160	136	340	6156		
223.9974	19:55	19:55	0	1.001	2128416	515666	300	750	1719	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.841	1750807	486966	387	967	1258		
269.9986	17:08	17:08	0	0.841	1656061	453859	375	937	1210	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:23	20:23	0		2824621	695706	387	967	1798		
269.9986	20:23	20:23	0		2582709	630237	375	937	1681	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:38	22:38	0		7962003	1894734	756	1890	2506		
269.9986	22:38	22:38	0		7599760	1793669	542	1355	3309	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.013	3925465	890634	756	1890	1178		
269.9986	22:56	22:56	0	1.013	3756701	838469	542	1355	1547	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	0	1.189	6988299	1454248	756	1890	1924		
269.9986	26:55	26:55	0	1.189	6547372	1384396	542	1355	2554	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	0	1.001	1111991	306495	88	220	3483		
257.9584	17:09	17:09	0	1.001	1040333	288369	46	115	6269	1.07(0.88-1.20)	
PCB-18											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	1092962	270857	88	220	3078		
257.9584	19:25	19:26	-1	1.134	1029285	254392	46	115	5530	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	0	1.147	1622473	403019	88	220	4580		
257.9584	19:39	19:39	0	1.147	1557099	390966	46	115	8499	1.04(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	0	1.154	1424998	366421	88	220	4164		
257.9584	19:46	19:46	0	1.154	1389321	362384	46	115	7878	1.03(0.88-1.20)	
PCB-16											
255.9613	19:53	19:53	0	1.161	1016275	250108	88	220	2842		
257.9584	19:53	19:53	0	1.161	943553	241993	46	115	5261	1.08(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	0	1.190	1573620	387081	88	220	4399		
257.9584	20:24	20:23	1	1.191	1503288	366708	46	115	7972	1.05(0.88-1.20)	
PCB-34											
255.9613	21:39	21:39	0	1.264	3910688	929086	4015	10037	231		
257.9584	21:40	21:39	1	1.265	3706197	879140	3352	8380	262	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	0	1.273	3680892	891044	4015	10037	222		
257.9584	21:48	21:48	0	1.273	3505476	854530	3352	8380	255	1.05(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:21	22:21	0	0.830	4304967	954904	4015	10037	238		
257.9584	22:21	22:21	0	0.830	4139689	915161	3352	8380	273	1.04(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.842	3816402	879585	4015	10037	219		
257.9584	22:39	22:40	-1	0.841	3642267	843944	3352	8380	252	1.05(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	4006350	930000	4015	10037	232		
257.9584	23:35	23:35	0	0.876	3868162	884541	3352	8380	264	1.04(0.88-1.20)	
PCB-36											
255.9613	25:09	25:09	0	0.934	3856401	776191	4015	10037	193		
257.9584	25:09	25:09	0	0.934	3775811	766404	3352	8380	229	1.02(0.88-1.20)	
PCB-39											
255.9613	25:30	25:30	0	0.947	4000160	851728	4015	10037	212		
257.9584	25:30	25:30	0	0.947	3752064	825891	3352	8380	246	1.07(0.88-1.20)	
PCB-38											
255.9613	26:05	26:05	0	0.969	3689347	791444	4015	10037	197		
257.9584	26:05	26:05	0	0.969	3463674	732524	3352	8380	219	1.07(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	0	0.986	3848428	780522	4015	10037	194		
257.9584	26:32	26:32	0	0.986	3713863	755635	3352	8380	225	1.04(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.001	3857630	792105	4015	10037	197		
257.9584	26:57	26:57	0	1.001	3731788	767063	3352	8380	229	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1407829	344796	213	532	1619		
303.9597	20:12	20:12	0	0.816	1717952	422285	75	187	5630	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	0		3472813	768008	1397	3492	550		
303.9597	24:46	24:46	0		4403417	972730	2036	5090	478	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.970	2217256	446543	1397	3492	320		
303.9597	32:41	32:41	0	0.970	2768812	555333	2036	5090	273	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.360	4317186	873577	1397	3492	625		
303.9597	33:41	33:41	0	1.360	5372391	1078359	2036	5090	530	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	0	1.382	4611326	885191	1397	3492	634		
303.9597	34:14	34:14	0	1.382	5687565	1092358	2036	5090	537	0.81(0.65-0.89)	
PCB-54											
289.9224	20:13	20:13	0	1.000	904097	229578	48	120	4783		
291.9194	20:13	20:13	0	1.000	1152675	295293	128	320	2307	0.78(0.65-0.89)	
PCB-50											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-46											
289.9224	23:22	23:22	0	1.156	1520169	359530	2007	5017	179		
291.9194	23:22	23:22	0	1.156	1975718	465150	2438	6095	191	0.77(0.65-0.89)	
PCB-52											
289.9224	24:47	24:47	0	1.227	2056621	459718	2007	5017	229		M
291.9194	24:47	24:47	0	1.227	2667090	601228	2438	6095	247	0.77(0.65-0.89)	M
PCB-43											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-48											
289.9224	25:33	25:33	0	1.265	1794492	399619	2007	5017	199		
291.9194	25:33	25:33	0	1.265	2301549	514127	2438	6095	211	0.78(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-59											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	0	1.302	1818546	385105	2007	5017	192		
291.9194	26:18	26:18	0	1.302	2243807	493298	2438	6095	202	0.81(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:01	27:01	0	1.337	2498718	535237	2007	5017	267		
291.9194	27:01	27:01	0	1.337	3141300	666226	2438	6095	273	0.80(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	0	0.827	2441019	536446	2007	5017	267		
291.9194	27:51	27:51	0	0.827	3072383	673111	2438	6095	276	0.79(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	2812968	555647	2007	5017	277		
291.9194	28:08	28:09	-1	0.835	3529074	698370	2438	6095	286	0.80(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	2419329	519047	2007	5017	259		
291.9194	28:34	28:34	0	0.848	3026244	660394	2438	6095	271	0.80(0.65-0.89)	
PCB-58											
289.9224	28:48	28:48	0	0.855	3034594	622116	2007	5017	310		
291.9194	28:48	28:48	0	0.855	3773572	784981	2438	6095	322	0.80(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	3051846	599874	2007	5017	299		
291.9194	28:58	28:58	0	0.860	3824090	757913	2438	6095	311	0.80(0.65-0.89)	

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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	0	0.868	2493719	496383	2007	5017	247		
291.9194	29:14	29:14	0	0.868	3004792	599489	2438	6095	246	0.83(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
PCB-66											
289.9224	29:53	29:53	0	0.888	2842004	568003	2007	5017	283		
291.9194	29:53	29:53	0	0.888	3470218	701122	2438	6095	288	0.82(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.892	2921462	598936	2007	5017	298		
291.9194	30:03	30:03	0	0.892	3562064	732174	2438	6095	300	0.82(0.65-0.89)	
PCB-56											
289.9224	30:33	30:33	0	0.907	2710725	557215	2007	5017	278		
291.9194	30:33	30:33	0	0.907	3330822	675223	2438	6095	277	0.81(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	0	0.914	2428465	477796	2007	5017	238		
291.9194	30:46	30:46	0	0.914	3046815	620767	2438	6095	255	0.80(0.65-0.89)	
PCB-80											
289.9224	31:11	31:11	0	0.926	2813888	578323	2007	5017	288		
291.9194	31:11	31:11	0	0.926	3638062	732224	2438	6095	300	0.77(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	3021627	566596	2007	5017	282		
291.9194	32:42	32:42	0	0.971	3839972	724001	2438	6095	297	0.79(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.987	2418743	471340	2007	5017	235		
291.9194	33:15	33:15	0	0.987	3087571	598455	2438	6095	245	0.78(0.65-0.89)	
PCB-81											
289.9224	33:42	33:42	0	1.001	2292556	449662	2007	5017	224		
291.9194	33:41	33:42	-1	1.000	2922187	543759	2438	6095	223	0.78(0.65-0.89)	
PCB-77											
289.9224	34:16	34:16	0	1.001	2357929	471577	2007	5017	235		
291.9194	34:16	34:16	0	1.001	3088790	601620	2438	6095	247	0.76(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	0	0.813	3951805	871207	149	372	5847		
339.9178	25:42	25:42	0	0.813	2503544	552806	58	145	9531	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.116	1433005	295325	149	372	1982		
339.9178	28:41	28:41	0	1.116	881960	189083	58	145	3260	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3214893	664298	149	372	4458		
339.9178	31:37	31:37	0		2013475	406170	58	145	7003	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2088474	400727	149	372	2689		
339.9178	34:17	34:17	0	1.085	1311227	257817	58	145	4445	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.146	5805680	1141595	5122	12805	223		
339.9178	36:15	36:15	0	1.146	3695521	725424	3163	7907	229	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6162016	1206740	5122	12805	236		
339.9178	36:34	36:34	0	1.157	3932748	763387	3163	7907	241	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.173	5997457	1177940	5122	12805	230		
339.9178	37:06	37:06	0	1.173	3737496	757247	3163	7907	239	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	0	1.194	5785442	1114112	5122	12805	218		
339.9178	37:45	37:45	0	1.194	3648458	711763	3163	7907	225	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	0		6068789	1166672	5122	12805	228		
339.9178	39:14	39:14	0		3862949	739609	3163	7907	234	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5739026	1074442	5122	12805	210		
339.9178	40:50	40:50	0	1.292	3649658	677088	3163	7907	214	1.57(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	2002049	441777	94	235	4700		
327.8775	25:44	25:44	0	1.001	1282382	285979	23	57	12434	1.56(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	2147147	476785	94	235	5072		
327.8775	26:06	26:06	0	1.015	1358141	299861	23	57	13037	1.58(1.32-1.78)	
PCB-103											
325.8804	28:02	28:02	0	1.091	1722221	373034	94	235	3968		
327.8775	28:02	28:02	0	1.091	1088439	234914	23	57	10214	1.58(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.100	1440579	300531	94	235	3197		
327.8775	28:16	28:16	0	1.100	913353	193140	23	57	8397	1.58(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.117	1607755	343000	94	235	3649		
327.8775	28:42	28:42	0	1.117	1006016	206595	23	57	8982	1.60(1.32-1.78)	
PCB-93											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-84											
325.8804	29:47	29:47	0	1.159	1403716	276200	94	235	2938		
327.8775	29:47	29:47	0	1.159	893697	179012	23	57	7783	1.57(1.32-1.78)	
PCB-89											
325.8804	30:16	30:16	0	1.177	1487509	302422	94	235	3217		
327.8775	30:16	30:16	0	1.177	936577	193670	23	57	8420	1.59(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	2575538	528901	94	235	5627		
327.8775	30:40	30:41	-1	1.193	1568944	313817	23	57	13644	1.64(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	1674884	341536	94	235	3633		
327.8775	31:03	31:03	0	0.857	1049464	214906	23	57	9344	1.60(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-112											
325.8804	32:20	32:20	0	1.258	2670198	518656	94	235	5518		
327.8775	32:20	32:20	0	1.258	1689200	325711	23	57	14161	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-82											
325.8804	33:55	33:55	0	1.320	1613453	302761	94	235	3221		
327.8775	33:55	33:55	0	1.320	1045938	202821	23	57	8818	1.54(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.335	2335173	456313	94	235	4854		
327.8775	34:19	34:19	0	1.335	1489923	289166	23	57	12572	1.57(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.353	2885764	550612	94	235	5858		
327.8775	34:47	34:47	0	1.353	1811468	356079	23	57	15482	1.59(1.32-1.78)	
PCB-108											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.406	3598917	640109	3761	9402	170		
327.8775	36:10	36:09	1	1.407	2298498	411041	2810	7025	146	1.57(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	3161819	607282	3761	9402	161		
327.8775	36:16	36:16	0	1.001	1872173	389063	2810	7025	138	1.69(1.32-1.78)	
PCB-106											
325.8804	36:23	36:23	0	1.004	3045625	627785	3761	9402	167		
327.8775	36:23	36:23	0	1.004	2094481	397038	2810	7025	141	1.45(1.32-1.78)	
PCB-118											
325.8804	36:36	36:36	0	1.001	3685248	687971	3761	9402	183		
327.8775	36:36	36:36	0	1.001	2330760	436085	2810	7025	155	1.58(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	2884618	554457	3761	9402	147		
327.8775	36:56	36:56	0	1.010	1824827	362406	2810	7025	129	1.58(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	0	1.001	3265805	595189	3761	9402	158		
327.8775	37:08	37:08	0	1.001	2041722	374140	2810	7025	133	1.60(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	3371548	625558	3761	9402	166		
327.8775	37:46	37:46	0	1.001	2154843	397116	2810	7025	141	1.56(1.32-1.78)	
PCB-127											
325.8804	39:15	39:15	0	1.040	3465005	627477	3761	9402	167		
327.8775	39:15	39:15	0	1.040	2177761	382258	2810	7025	136	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	0	1.001	3292748	549992	3761	9402	146		
327.8775	40:52	40:52	0	1.001	2119092	353738	2810	7025	126	1.55(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.791	3257270	660505	70	175	9436		
373.8788	31:22	31:23	-1	0.790	2529655	513681	46	115	11167	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	1935812	371807	2444	6110	152		
373.8788	38:27	38:27	0	0.901	1481729	282805	2169	5422	130	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3729250	717137	2444	6110	293		
373.8788	39:42	39:41	1		2865439	542376	2169	5422	250	1.30(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4385171	843891	2444	6110	345		
373.8788	41:56	41:56	0	0.982	3401457	660859	2169	5422	305	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4672513	879045	2444	6110	360		
373.8788	42:42	42:42	0	1.076	3656608	691360	2169	5422	319	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4570629	851282	2444	6110	348		
373.8788	47:05	47:05	0	1.186	3575255	676718	2169	5422	312	1.28(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	1551501	320228	14	35	22873		
361.8385	31:24	31:25	-1	1.000	1205695	248802	15	37	16587	1.29(1.05-1.43)	
PCB-152											
359.8415	31:36	31:36	0	1.007	1531535	309585	14	35	22113		
361.8385	31:36	31:36	0	1.007	1221330	244311	15	37	16287	1.25(1.05-1.43)	
PCB-150											
359.8415	31:46	31:46	0	1.012	1647132	340356	14	35	24311		
361.8385	31:46	31:46	0	1.012	1285993	261802	15	37	17453	1.28(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	0	1.024	1607291	324088	14	35	23149		
361.8385	32:08	32:08	0	1.024	1251510	253361	15	37	16891	1.28(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	0	1.033	1563820	302118	14	35	21580		
361.8385	32:25	32:25	0	1.033	1210113	244554	15	37	16304	1.29(1.05-1.43)	
PCB-148											
359.8415	33:57	33:57	0	1.082	1231487	249307	14	35	17808		
361.8385	33:57	33:57	0	1.082	944768	189380	15	37	12625	1.30(1.05-1.43)	
PCB-135											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	1330712	264146	14	35	18868		
361.8385	34:47	34:47	0	1.108	1040783	204861	15	37	13657	1.28(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	1246158	243699	14	35	17407		
361.8385	35:06	35:06	0	1.118	986173	193270	15	37	12885	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	1687175	334025	1008	2520	331		M
361.8385	36:15	36:15	0	1.155	1331753	269140	785	1962	343	1.27(1.05-1.43)	M
PCB-142											
359.8415	36:24	36:24	0	1.160	1733270	337603	1008	2520	335		M
361.8385	36:24	36:24	0	1.160	1381885	271204	785	1962	345	1.25(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.170	1652199	321485	1008	2520	319		
361.8385	36:43	36:43	0	1.170	1326992	253704	785	1962	323	1.25(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	1821701	339181	1008	2520	336		
361.8385	37:14	37:14	0	1.186	1424291	267937	785	1962	341	1.28(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	2363040	453975	1008	2520	450		
361.8385	37:38	37:37	1	0.881	1823861	353139	785	1962	450	1.30(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	2148749	415011	1008	2520	412		
361.8385	37:52	37:52	-1	0.887	1696656	333062	785	1962	424	1.27(1.05-1.43)	
PCB-161											
359.8415	38:00	38:00	0	0.890	2621108	512234	1008	2520	508		
361.8385	38:00	38:00	0	0.890	2044964	396454	785	1962	505	1.28(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	0	0.906	1947775	364426	1008	2520	362		
361.8385	38:41	38:41	0	0.906	1513578	284802	785	1962	363	1.29(1.05-1.43)	
PCB-130											
359.8415	39:05	39:05	0	0.915	1601211	302566	1008	2520	300		
361.8385	39:05	39:05	0	0.915	1237434	240551	785	1962	306	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	1828119	355133	1008	2520	352		
361.8385	39:18	39:18	0	0.920	1470337	279527	785	1962	356	1.24(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	0	0.923	2355056	457987	1008	2520	454		
361.8385	39:25	39:26	-1	0.923	1845124	352711	785	1962	449	1.28(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	0	0.939	2955869	553491	1008	2520	549		
361.8385	40:07	40:07	0	0.939	2363652	439507	785	1962	560	1.25(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	3137876	586838	1008	2520	582		
361.8385	41:58	41:58	0	0.983	2440665	455213	785	1962	580	1.29(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	2793137	511299	1008	2520	507		
361.8385	42:15	42:15	0	0.990	2253222	402492	785	1962	513	1.24(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	0	1.001	2586477	482486	1008	2520	479		
361.8385	42:44	42:44	0	1.001	2021689	384259	785	1962	490	1.28(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	2731112	460895	1008	2520	457		
361.8385	47:06	47:06	0	1.001	2127829	367226	785	1962	468	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3390997	647639	106	265	6110		
407.8398	37:06	37:07	-1	0.820	3196582	614748	52	130	11822	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.888	1268374	239712	106	265	2261		
407.8398	40:09	40:10	-1	0.887	1185767	225896	52	130	4344	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2568508	474635	106	265	4478		
407.8398	45:15	45:15	0		2409050	448677	52	130	8628	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2144599	393977	106	265	3717		
407.8398	46:30	46:30	0	1.028	2011990	367812	52	130	7073	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5177539	911013	1628	4070	560		
407.8398	49:36	49:37	-1	1.096	4893238	882502	1626	4065	543	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	1906918	363165	2	5	181583		
395.7995	37:08	37:08	0	1.001	1799722	344515	9	22	38279	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	1909337	379833	2	5	189917		
395.7995	37:28	37:28	0	1.010	1824607	355678	9	22	39520	1.05(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	0	1.024	1892683	358370	2	5	179185		
395.7995	38:00	38:00	0	1.024	1821815	348626	9	22	38736	1.04(0.89-1.21)	
PCB-176											
393.8025	38:21	38:21	0	1.033	1717852	328373	2	5	164187		
395.7995	38:21	38:21	0	1.033	1619606	309049	9	22	34339	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.045	2090399	402372	2	5	201186		
395.7995	38:48	38:48	0	1.045	1961117	370019	9	22	41113	1.07(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	1251827	247537	2	5	123769		
395.7995	40:11	40:11	-1	1.083	1188658	225408	9	22	25045	1.05(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	1313506	246290	2	5	123145		
395.7995	40:48	40:49	-1	1.100	1256385	243837	9	22	27093	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	1539415	294124	2	5	147062		
395.7995	41:05	41:05	0	1.107	1483819	280053	9	22	31117	1.04(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	0	1.113	1357585	259715	2	5	129858		
395.7995	41:18	41:18	0	1.113	1289451	251200	9	22	27911	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		Ma
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		M
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	1382890	268892	2	5	134446		
395.7995	41:56	41:56	0	1.130	1298958	249998	9	22	27778	1.06(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	1317062	238481	2	5	119241		
395.7995	42:22	42:22	0	1.142	1316514	232510	9	22	25834	1.00(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	1309193	249662	2	5	124831		
395.7995	42:45	42:45	0	1.152	1211833	231137	9	22	25682	1.08(0.89-1.21)	
PCB-171											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	1200782	233906	2	5	116953		
395.7995	44:37	44:37	0	0.899	1147181	214947	9	22	23883	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	1936935	362962	2	5	181481		
395.7995	44:54	44:54	0	0.905	1821207	344791	9	22	38310	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	1843223	351659	2	5	175830		
395.7995	45:37	45:37	0	0.919	1747325	324624	9	22	36069	1.05(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	0	0.938	1278454	228946	2	5	114473		
395.7995	46:32	46:32	0	0.938	1225630	220603	9	22	24511	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	1842203	338530	2	5	169265		
395.7995	47:02	47:02	0	0.948	1739942	319162	9	22	35462	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	2516603	449894	787	1967	572		
395.7995	49:38	49:38	0	1.000	2412128	445339	465	1162	958	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2255092	422922	39	97	10844		
441.8008	42:29	42:28	1	0.821	2499196	471635	38	95	12411	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3362707	620941	250	625	2484		
441.8008	51:43	51:43	0		3648392	674097	251	627	2686	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	3962585	704738	250	625	2819		
441.8008	52:11	52:11	0	1.009	4374908	776279	251	627	3093	0.91(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	1251662	241380	51	127	4733		
429.7606	42:29	42:29	0	1.001	1402589	268049	72	180	3723	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	1147960	212934	51	127	4175		
429.7606	43:25	43:25	0	1.022	1271154	239345	72	180	3324	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	1221595	229432	51	127	4499		
429.7606	44:05	44:05	0	1.038	1340945	251734	72	180	3496	0.91(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	1331905	249833	51	127	4899		
429.7606	44:19	44:19	0	1.044	1459028	274266	72	180	3809	0.91(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	1181192	228255	51	127	4476		
429.7606	44:25	44:25	0	1.046	1280025	253295	72	180	3518	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	905436	170211	51	127	3337		
429.7606	47:53	47:53	0	0.917	987246	184071	72	180	2557	0.92(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	1102302	203152	51	127	3983		
429.7606	48:05	48:05	0	0.921	1187278	216676	72	180	3009	0.93(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	1635171	296266	472	1180	628		
429.7606	49:23	49:23	0	0.946	1796776	331167	438	1095	756	0.91(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	1877668	346067	472	1180	733		
429.7606	51:44	51:44	0	0.991	2089752	377920	438	1095	863	0.90(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	2116332	381152	472	1180	808		
429.7606	52:13	52:13	0	1.000	2361758	425228	438	1095	971	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	2989638	548455	593	1482	925		
475.7619	49:09	49:09	0	0.950	3691137	673270	833	2082	808	0.81(0.65-0.89)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:57	53:57	0	1.043	2206564	390041	593	1482	658		
475.7619	53:57	53:57	0	1.043	2697378	485236	833	2082	583	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	1674736	306423	503	1257	609		
463.7216	49:10	49:10	0	1.001	2099856	394691	982	2455	402	0.80(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	1731554	322149	503	1257	640		
463.7216	50:05	50:05	0	1.019	2146967	396465	982	2455	404	0.81(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	1363275	241413	503	1257	480		M
463.7216	53:58	53:58	0	1.000	1761287	313621	982	2455	319	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:34	55:34	0	1.074	1960174	329111	112	280	2938		
509.7229	55:34	55:34	0	1.074	2763117	486124	68	170	7149	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	1086029	181678	83	207	2189		
497.6826	55:36	55:36	0	1.000	1517711	260666	31	77	8409	0.72(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

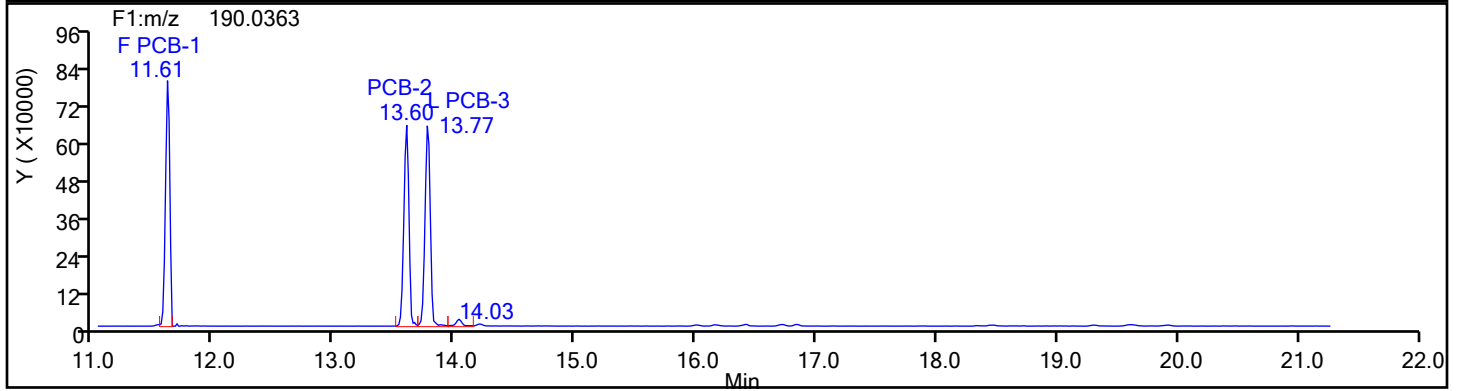
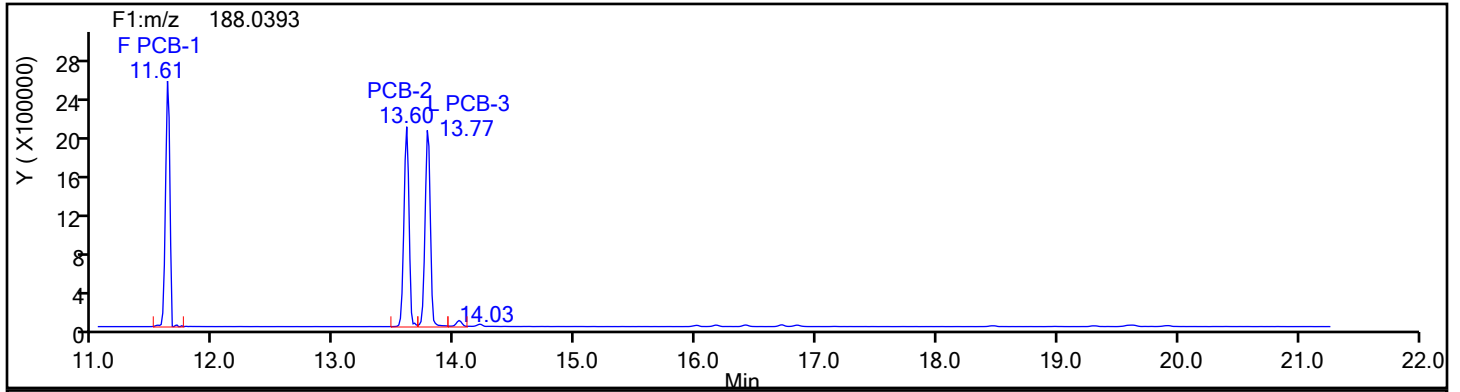
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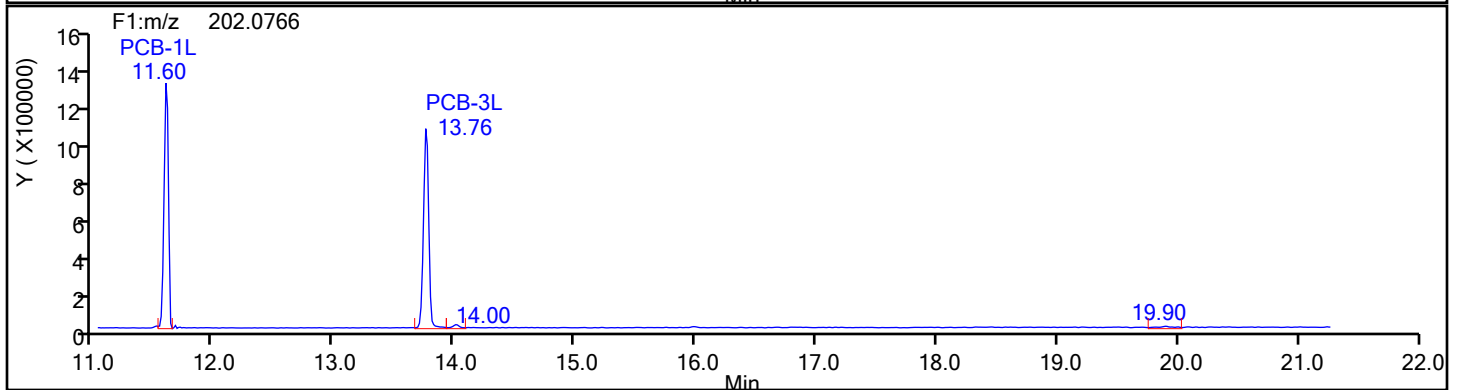
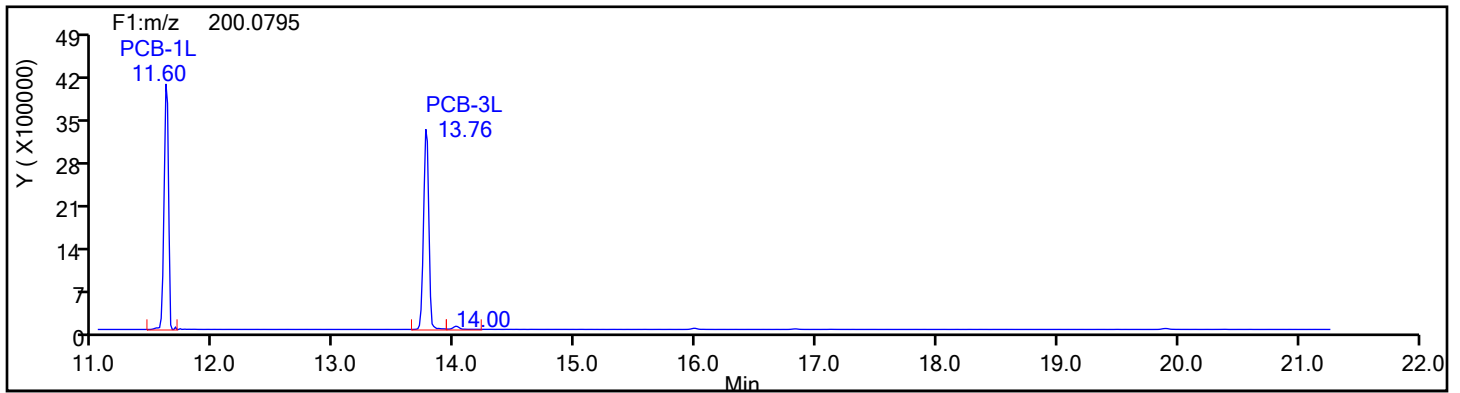
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Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

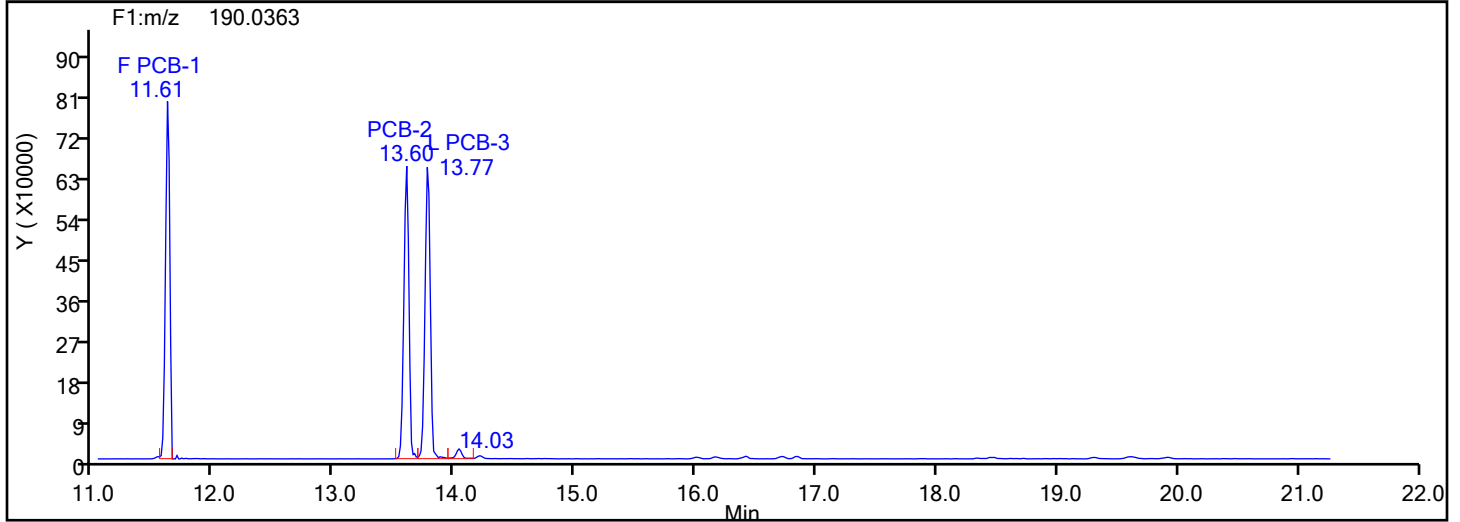
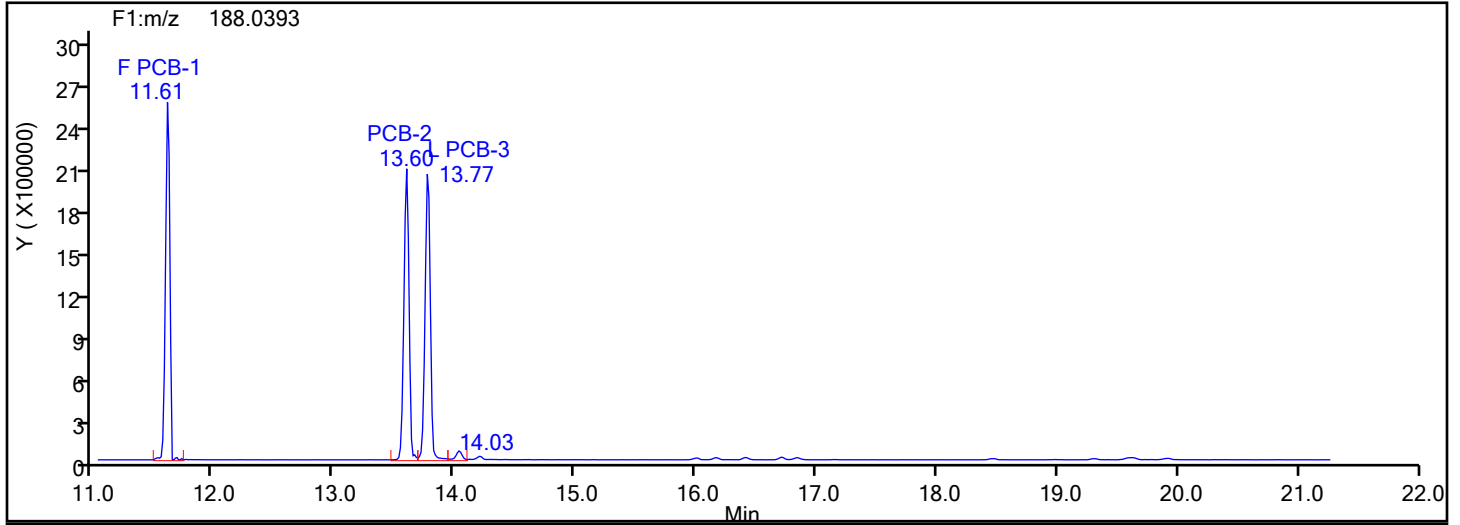
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Sample Line#: 4

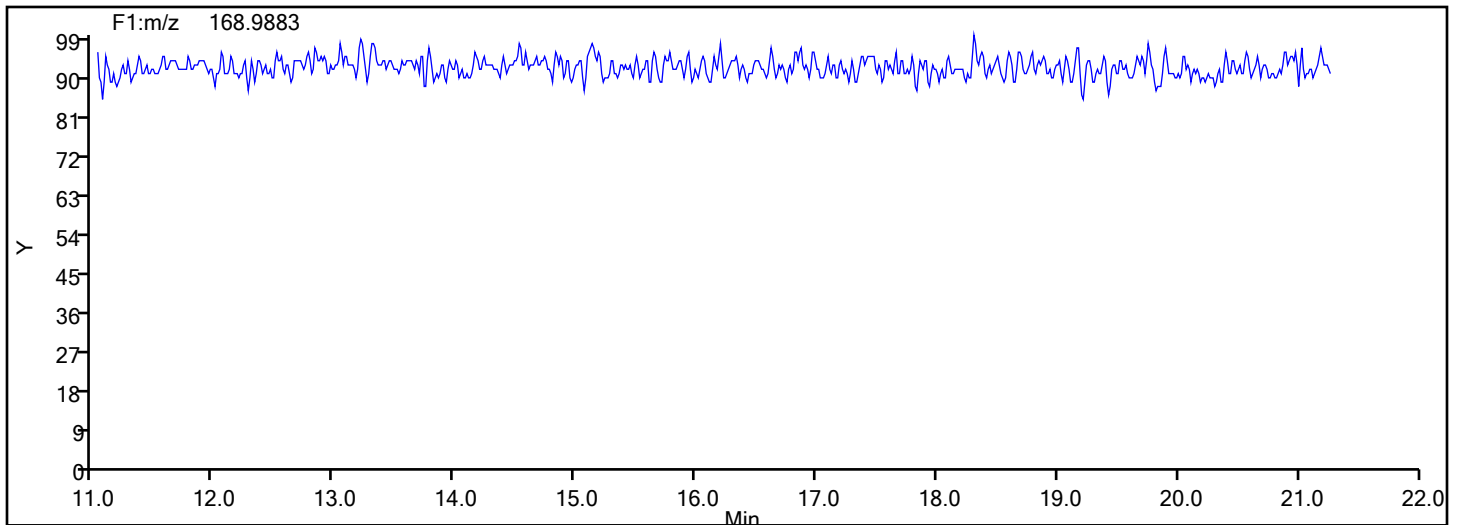
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

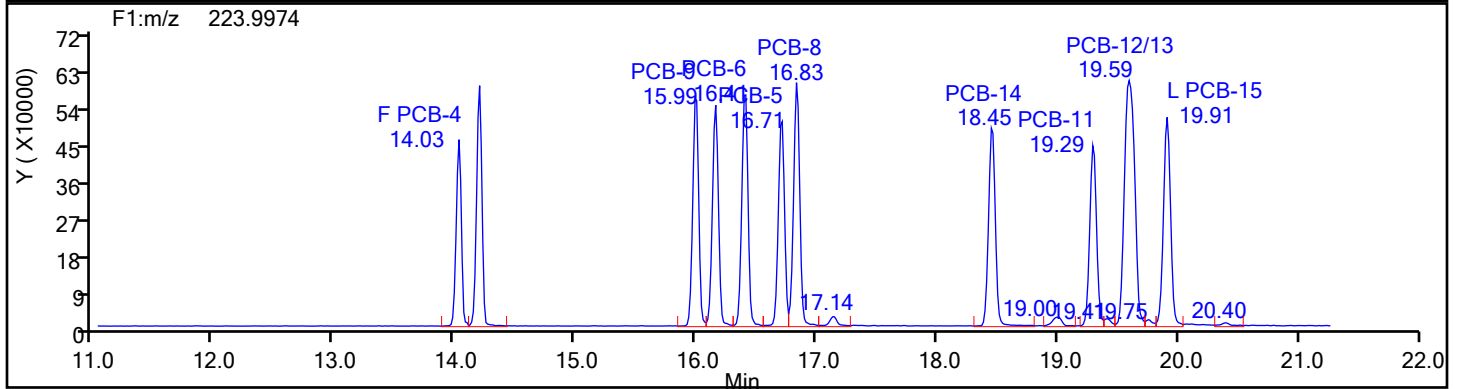
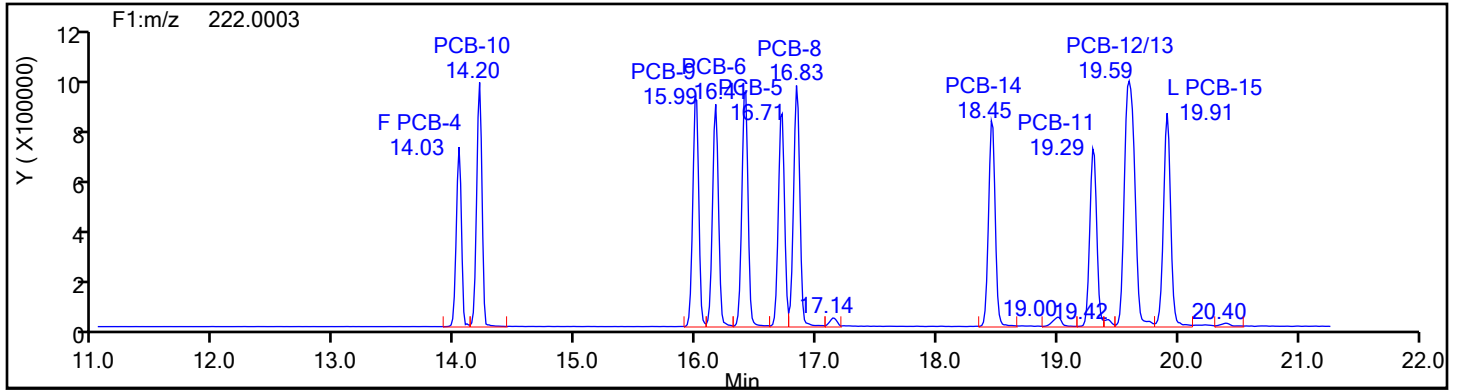
Worklist#: 87130

Sample Line#: 4

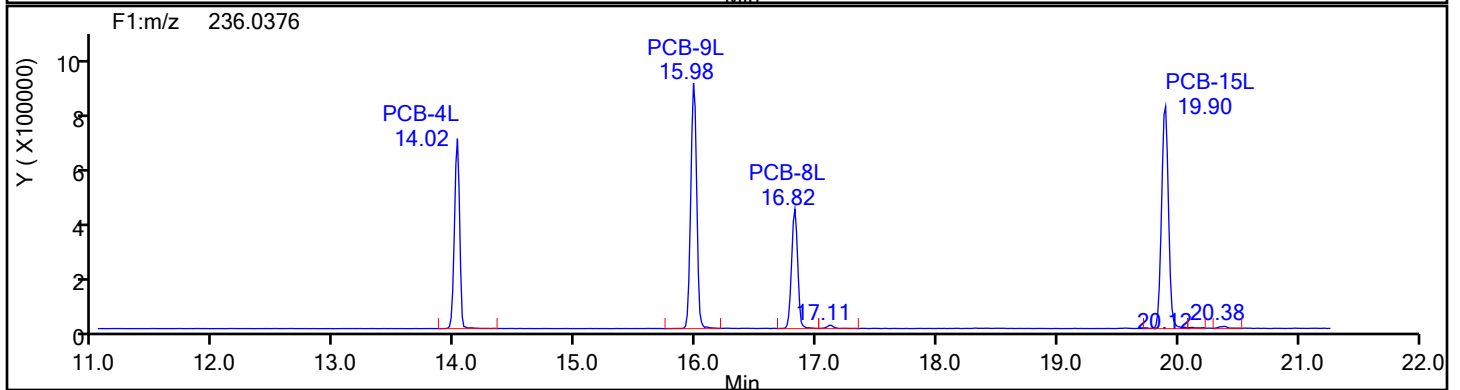
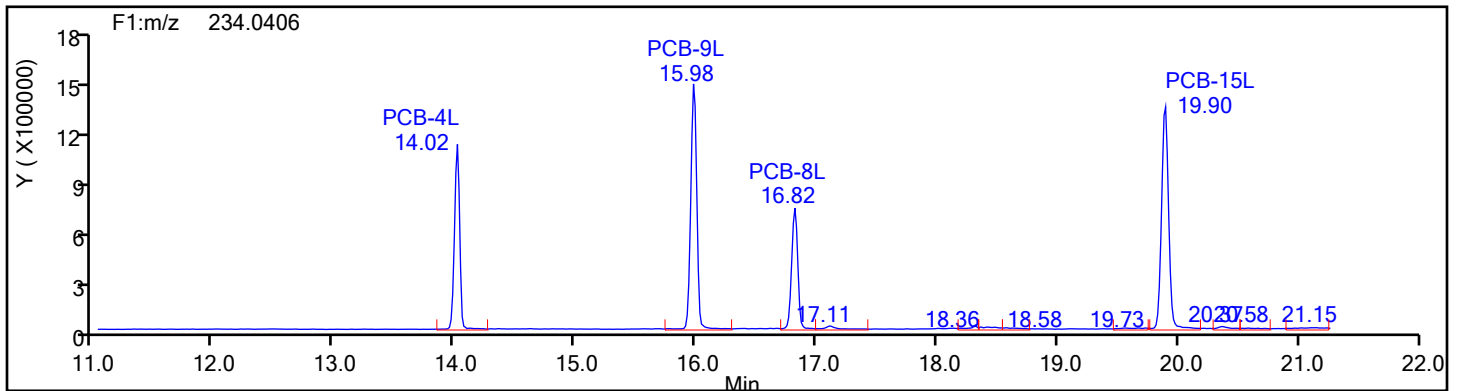
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

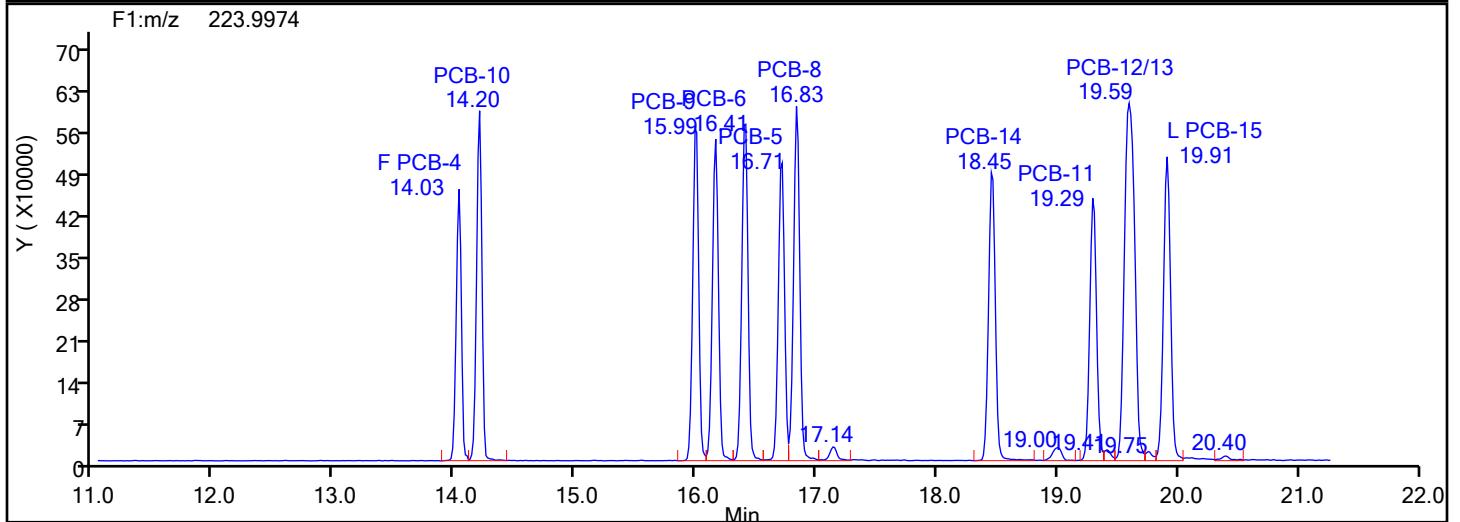
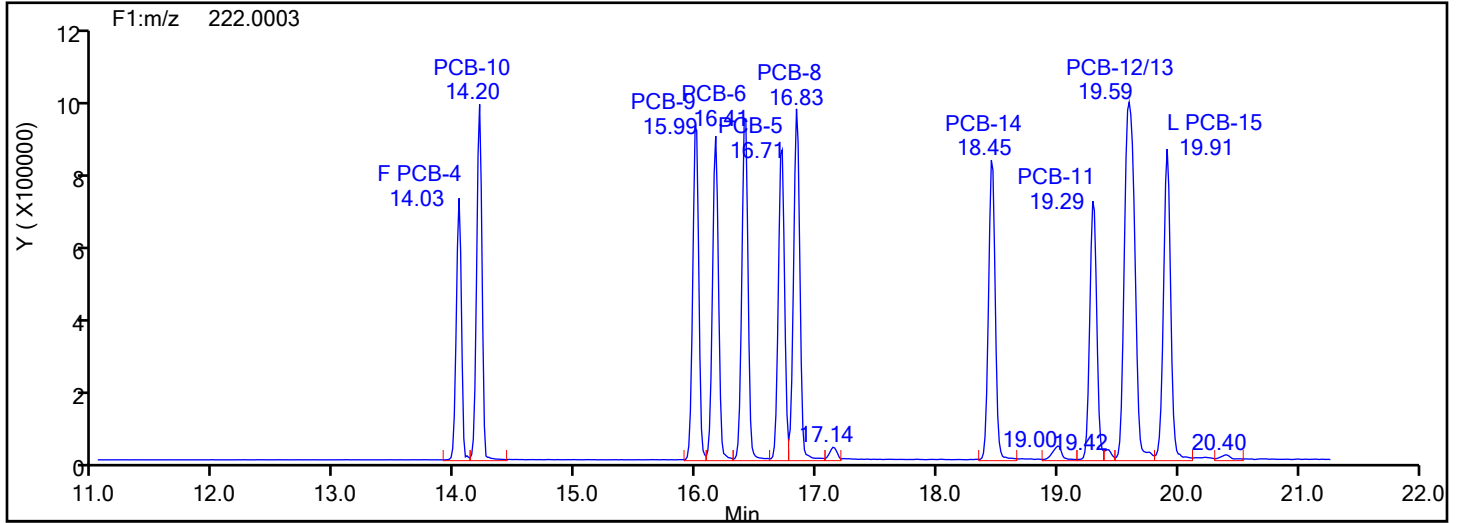
Worklist#: 87130

Sample Line#: 4

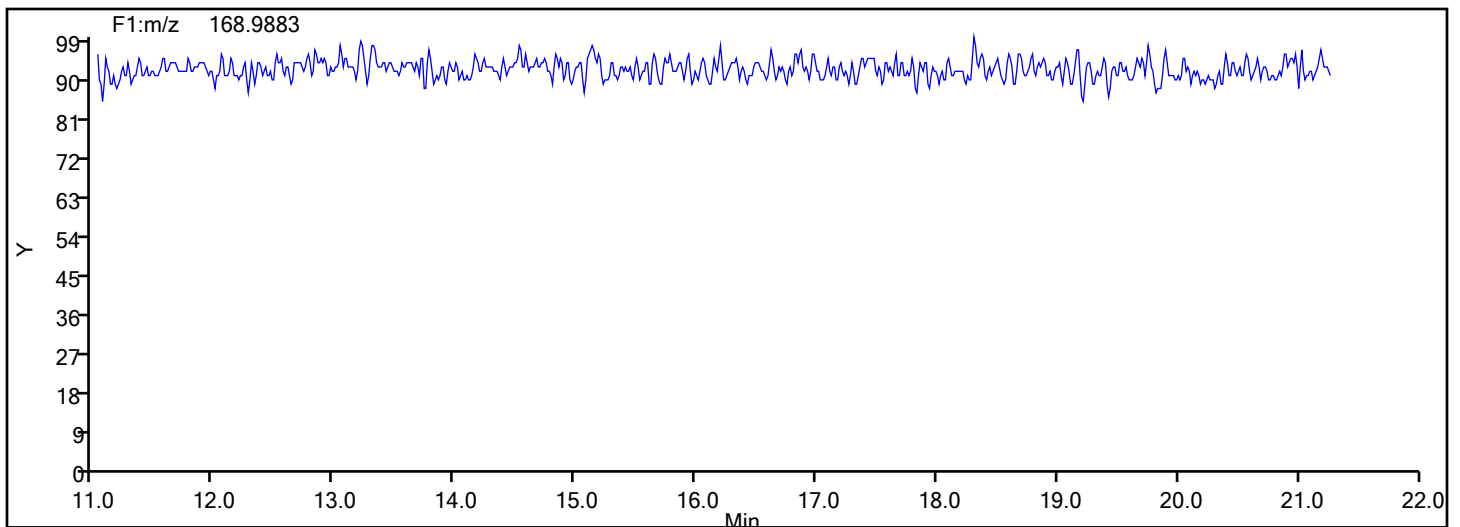
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

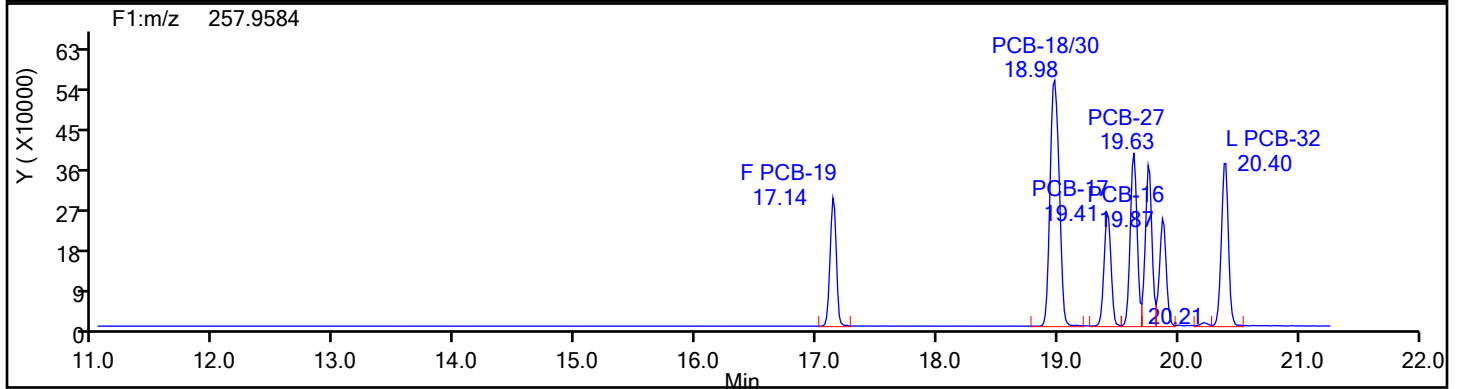
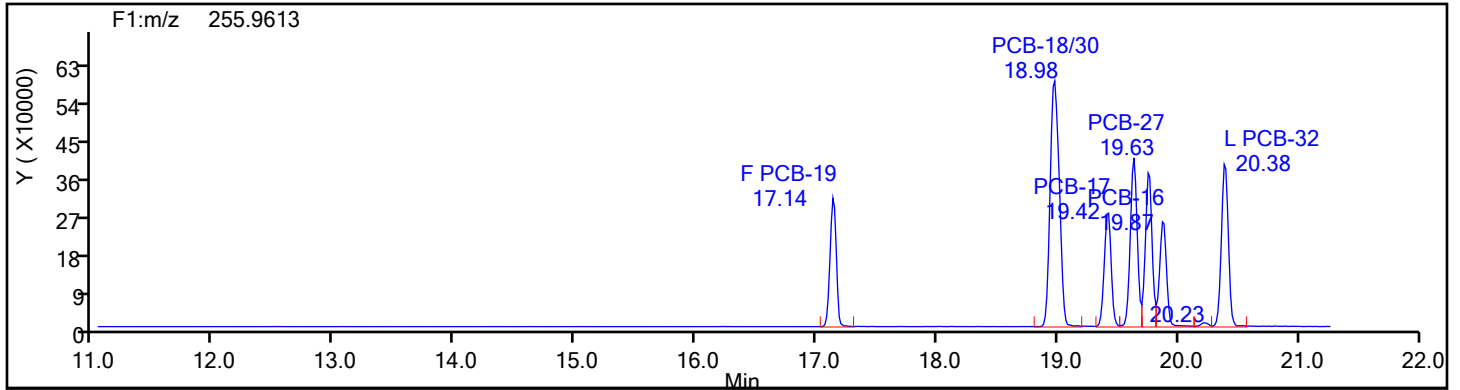
Worklist#: 87130

Sample Line#: 4

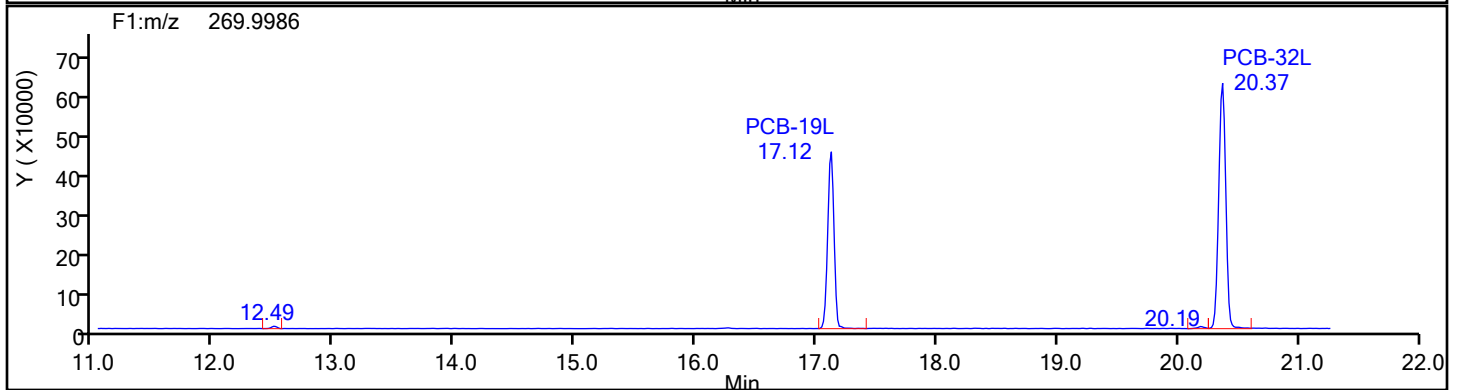
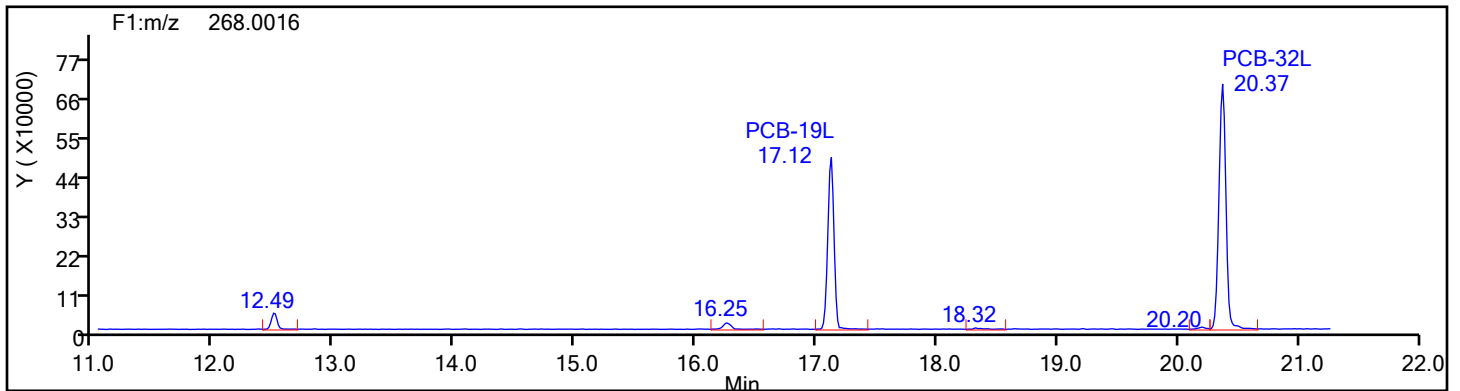
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

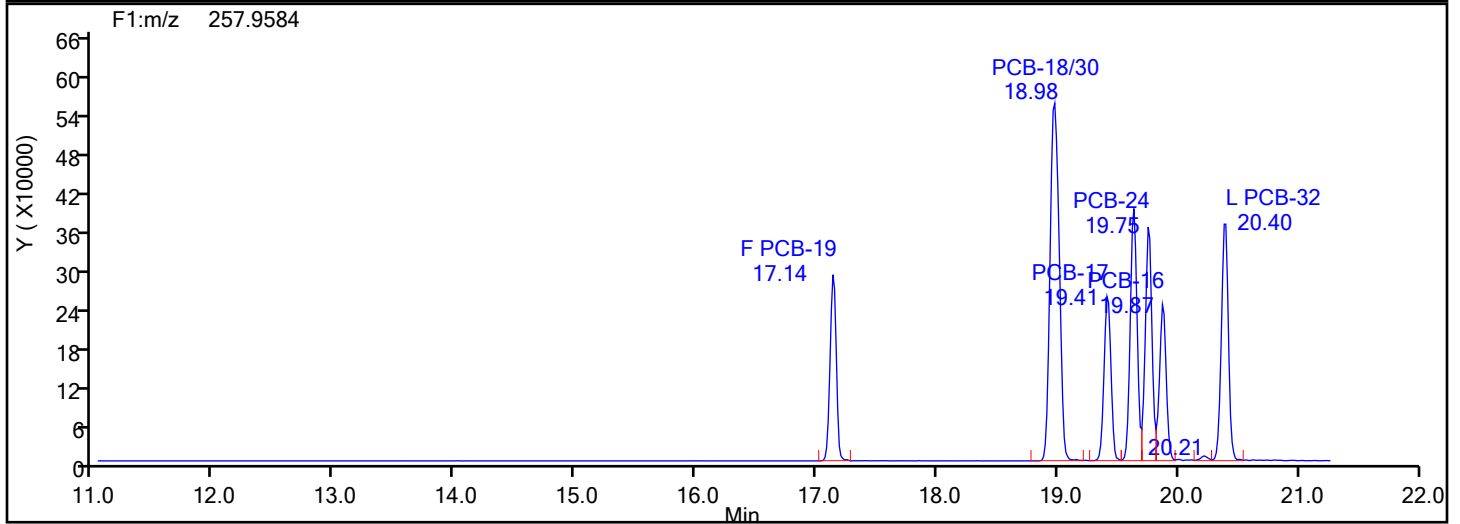
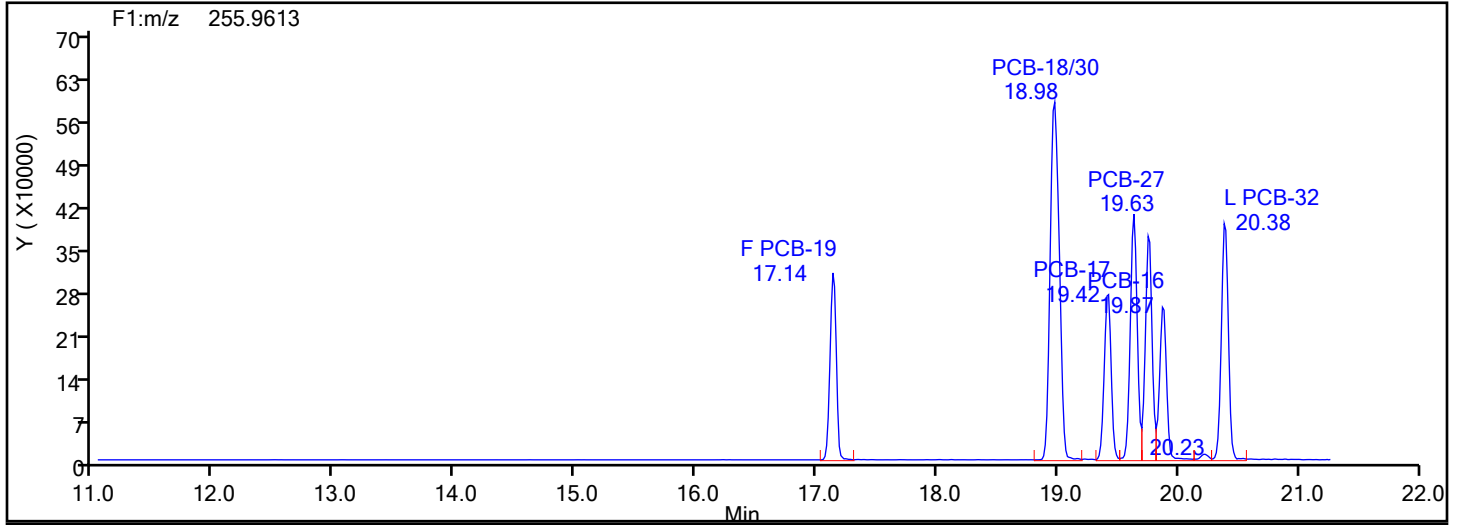
Worklist#: 87130

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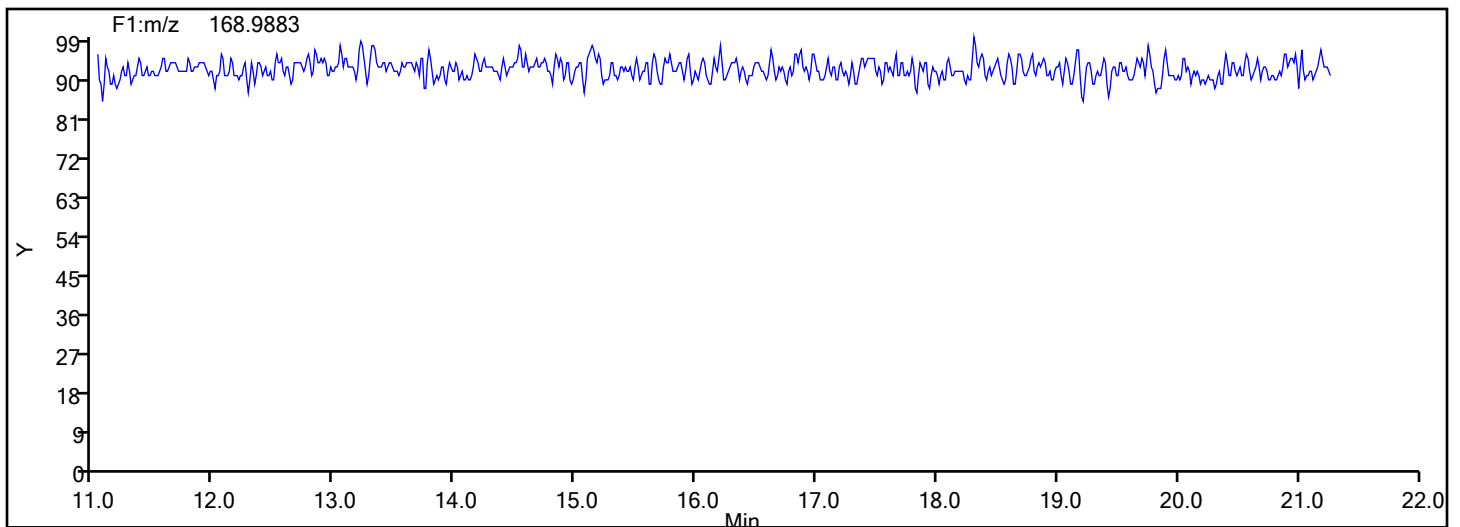
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

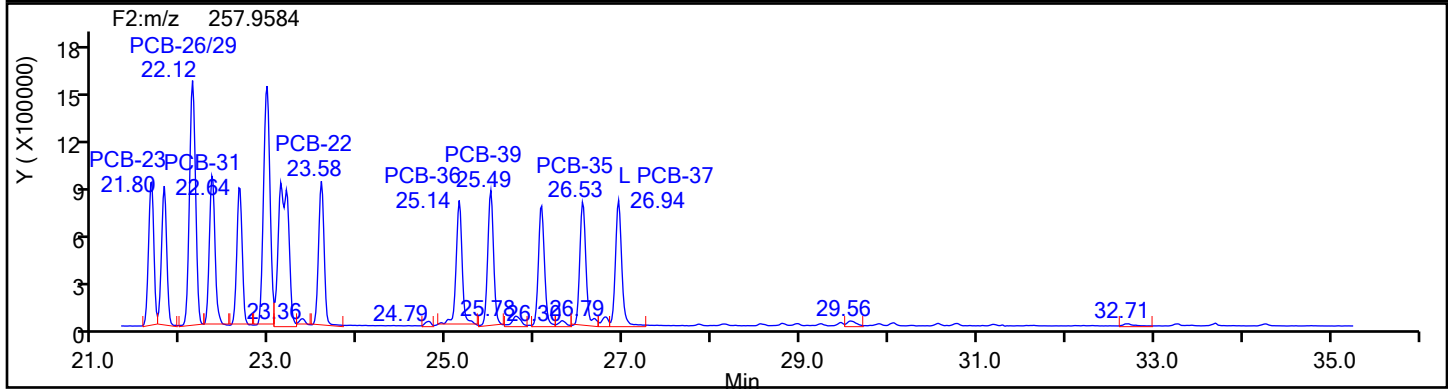
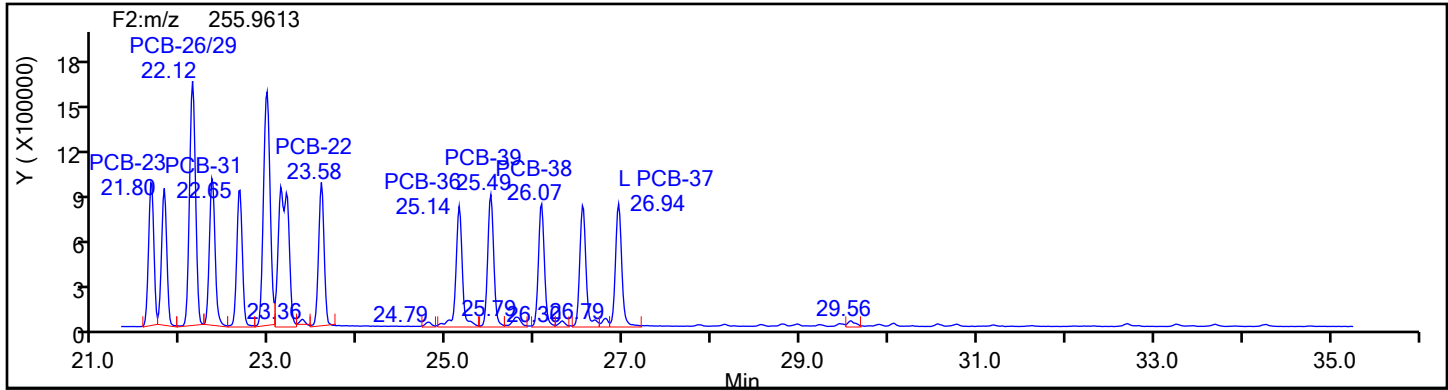
Worklist#: 87130

Sample Line#: 4

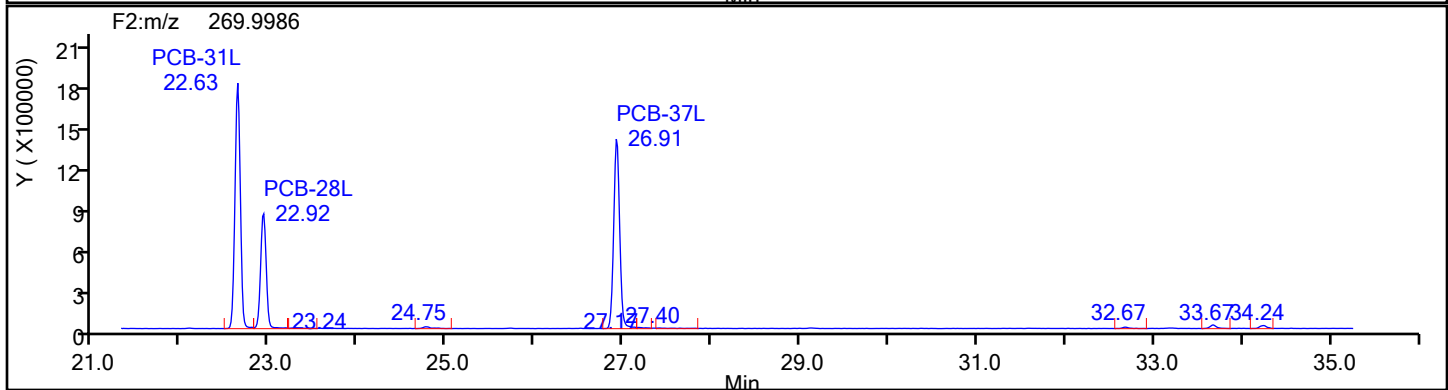
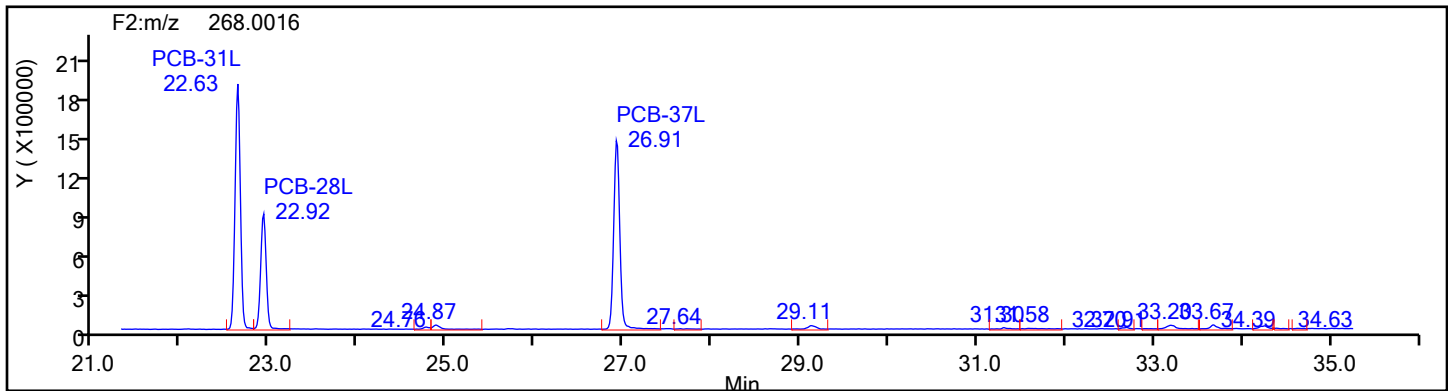
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

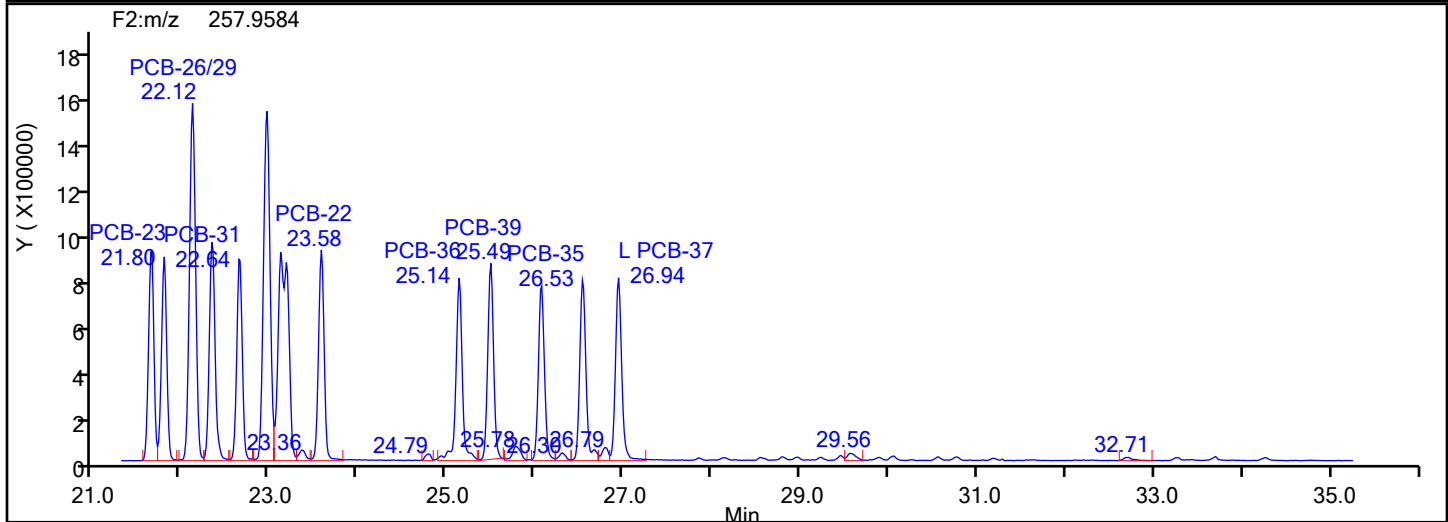
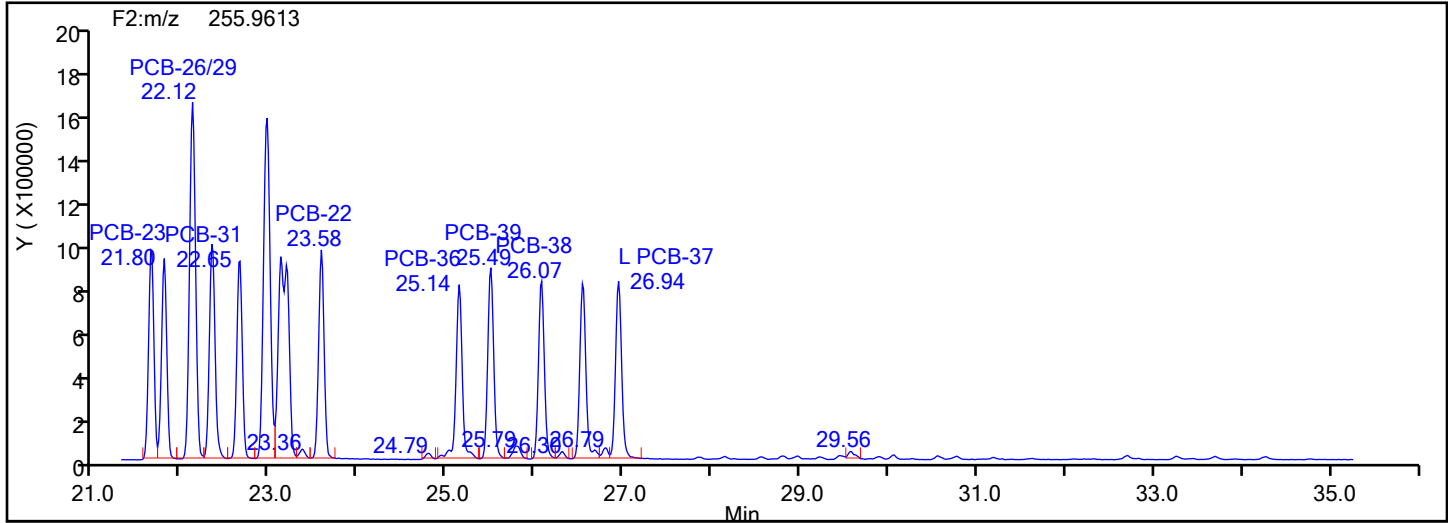
Worklist#: 87130

Sample Line#: 4

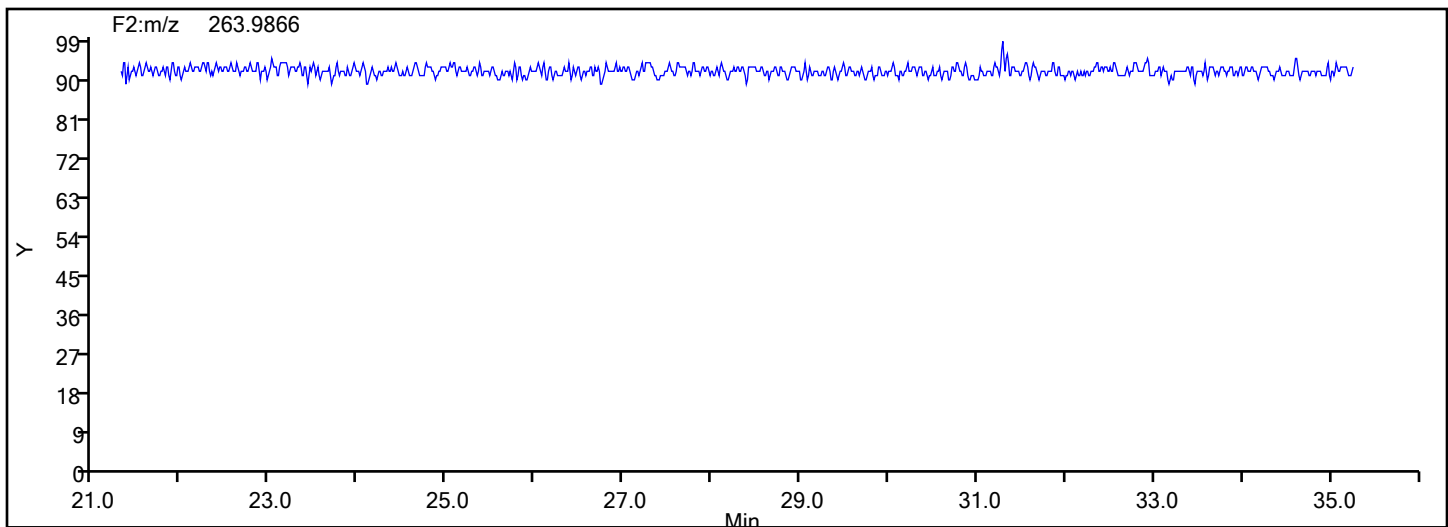
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

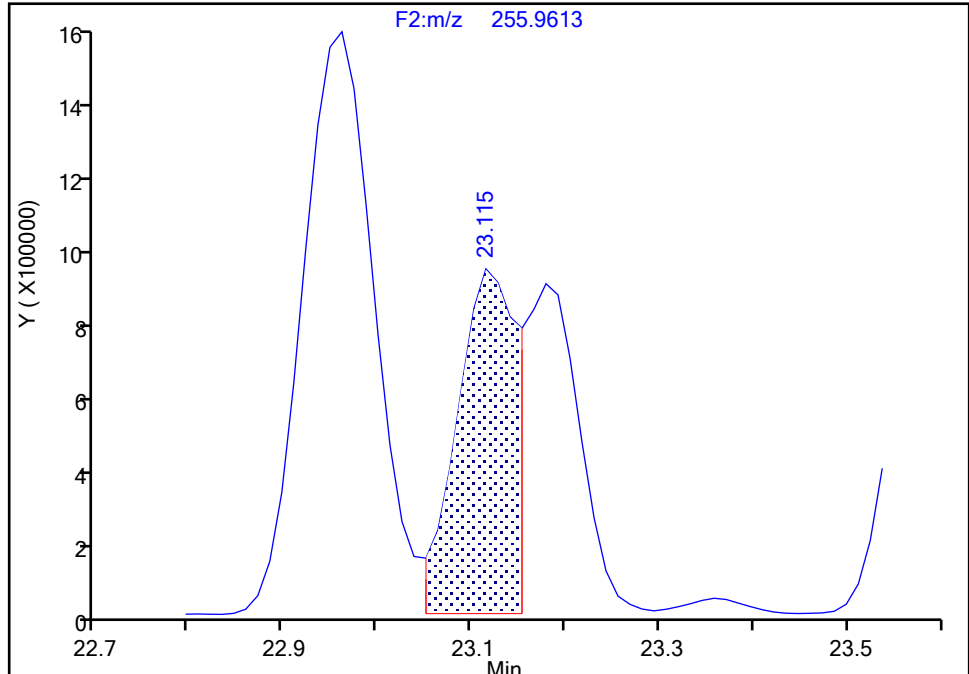
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

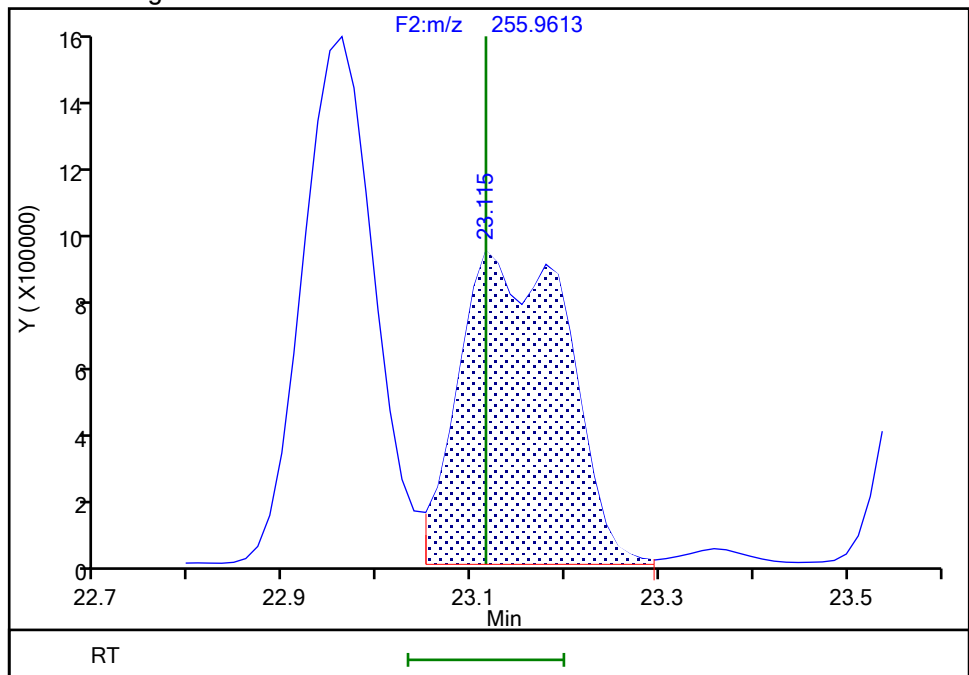
RT: 23.12
Area: 3808070
Amount: 61.066350
Amount Units: pg/ul

Processing Integration Results



RT: 23.12
Area: 7217221
Amount: 98.411321
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

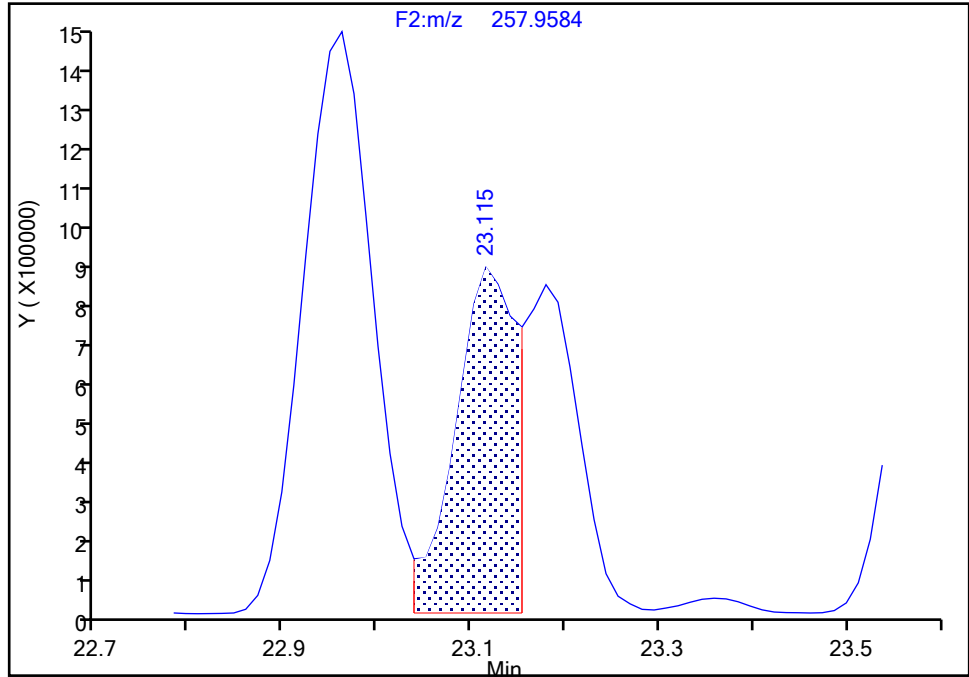
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Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

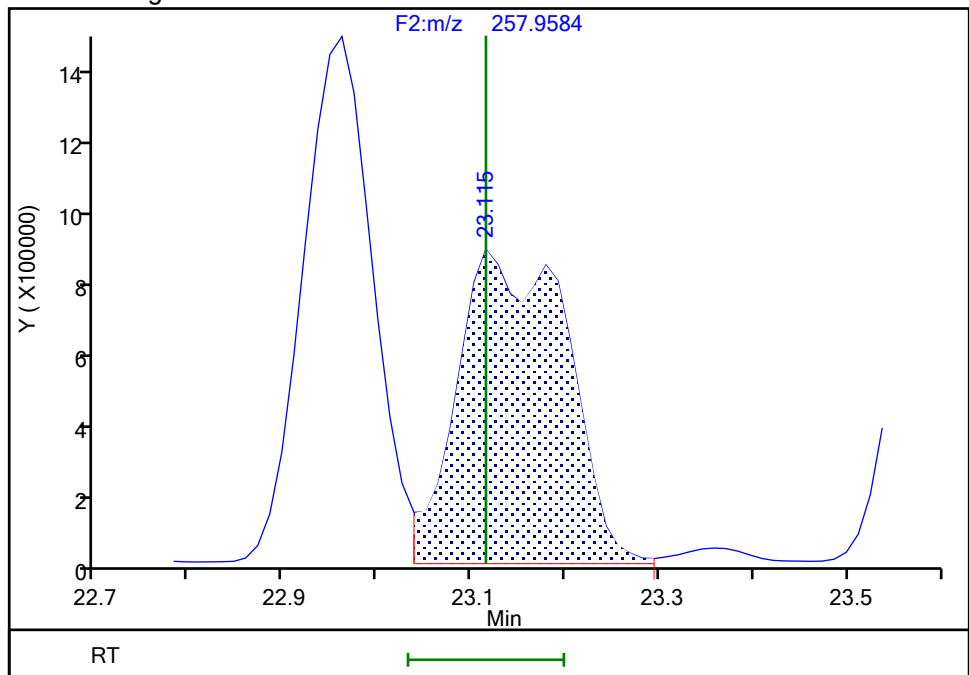
RT: 23.12
Area: 3822480
Amount: 61.066350
Amount Units: pg/ul

Processing Integration Results



RT: 23.12
Area: 7096925
Amount: 98.411321
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 2065 of 3050BASFWHC-McIntosh-010066
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

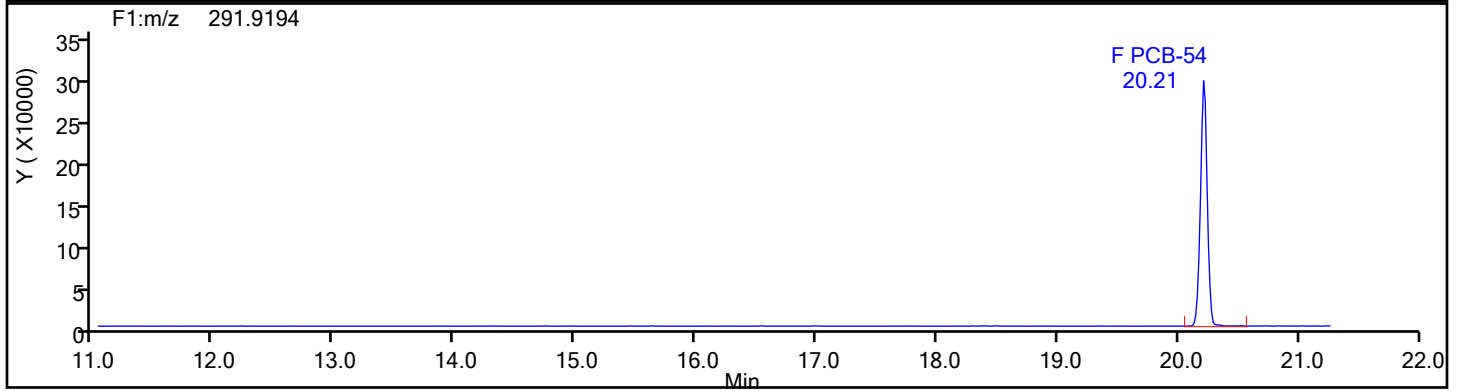
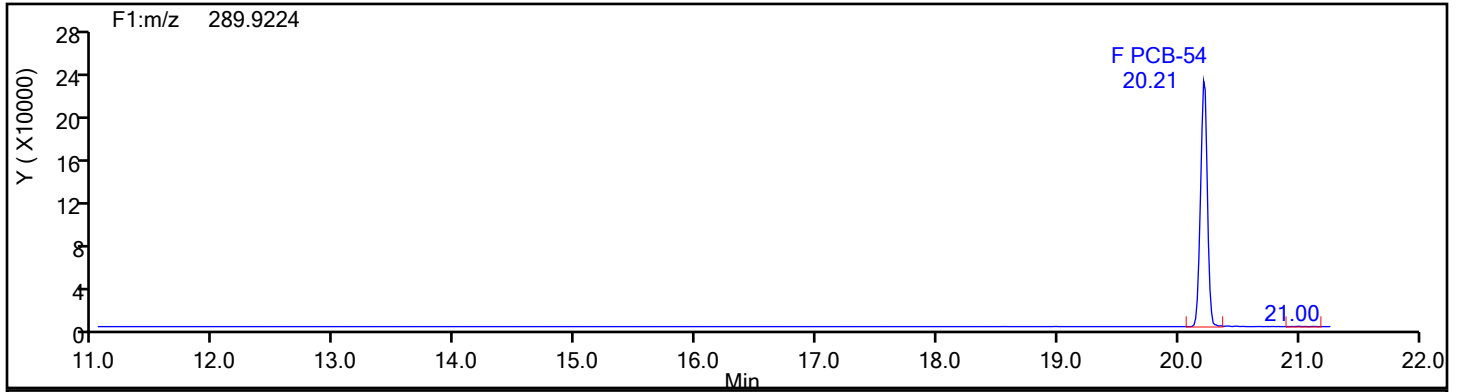
Worklist#: 87130

Sample Line#: 4

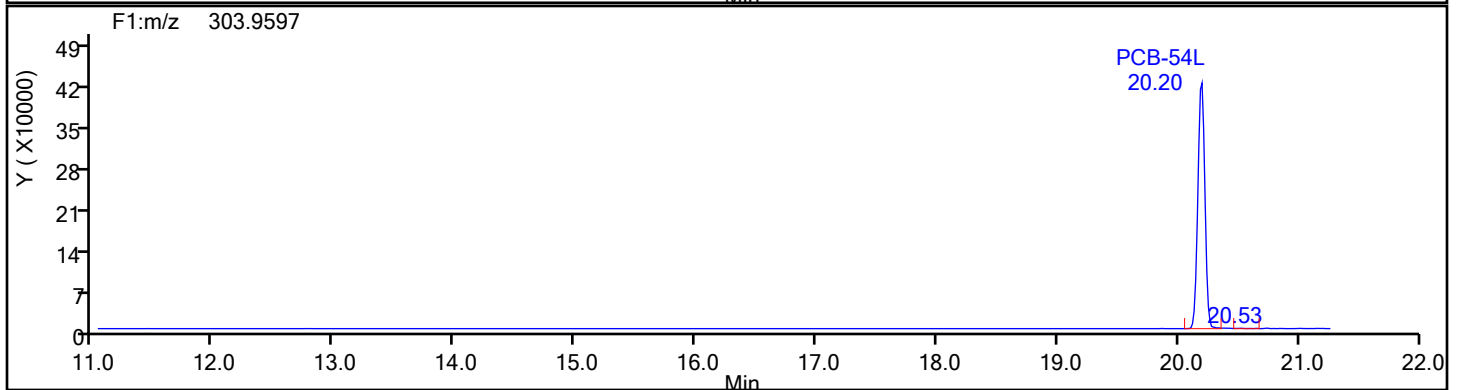
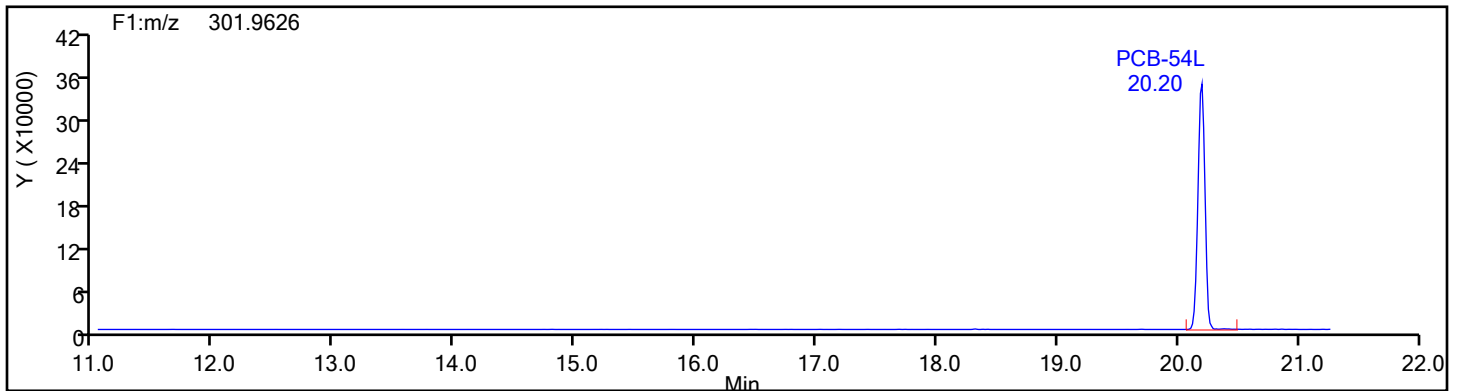
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

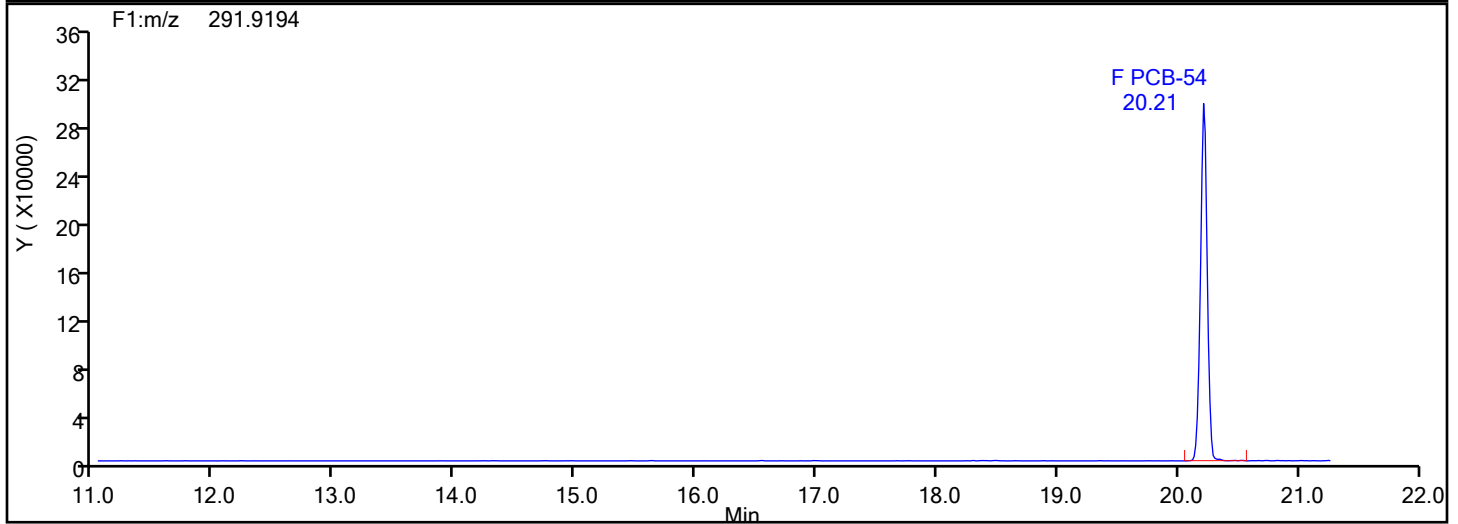
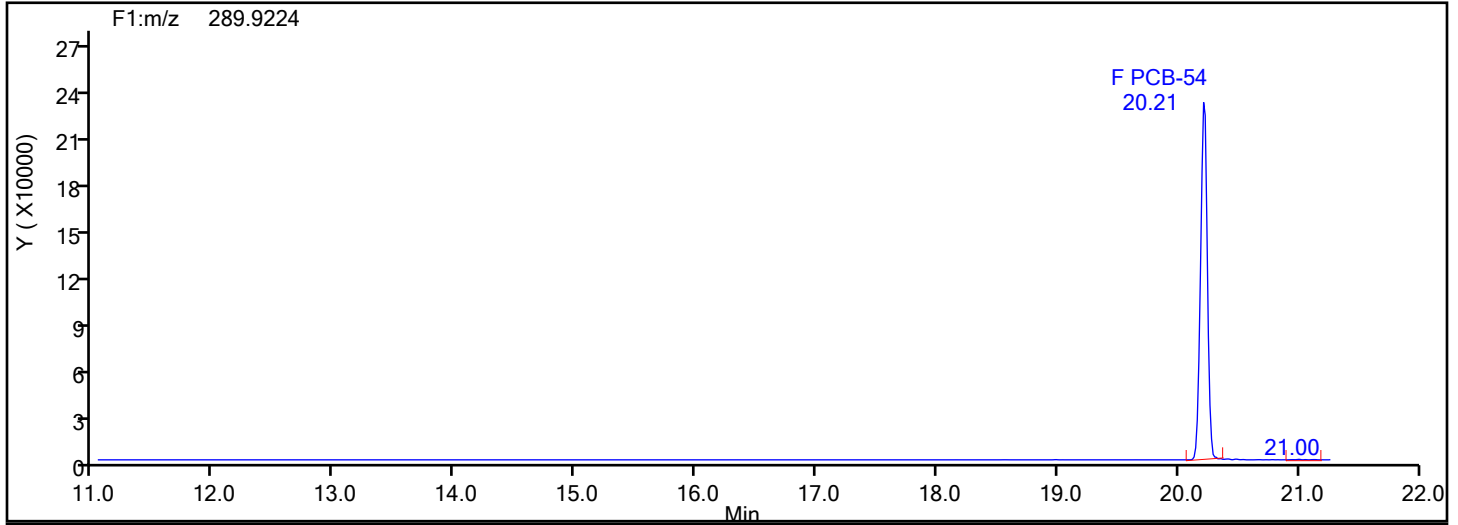


TePCB F1 Standards

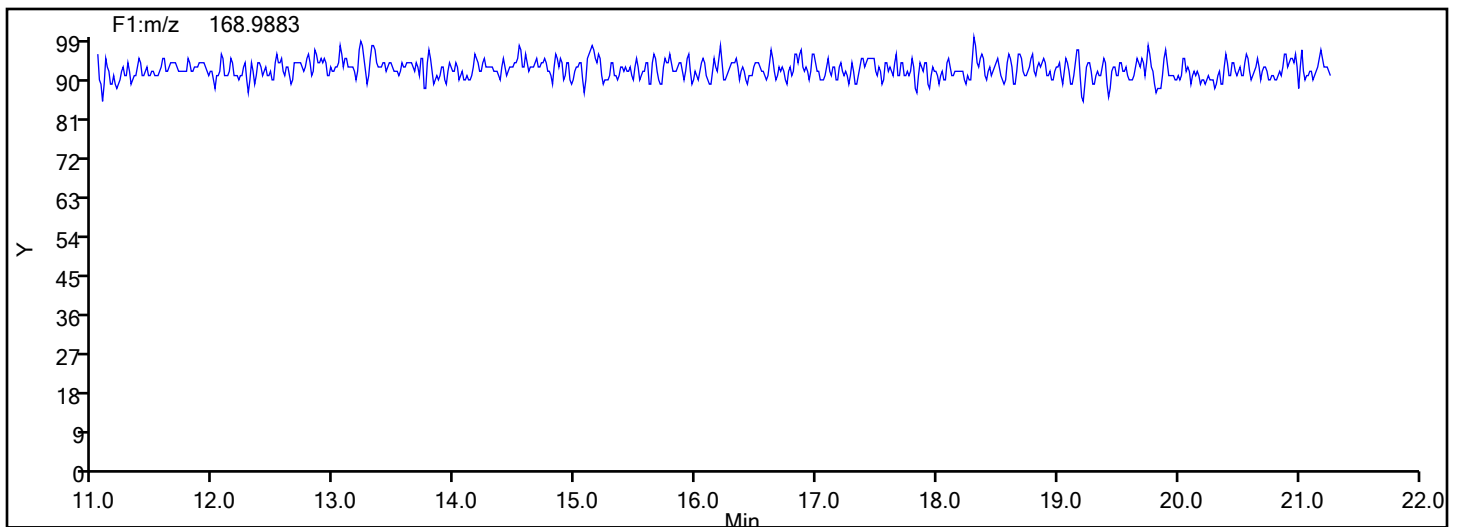


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

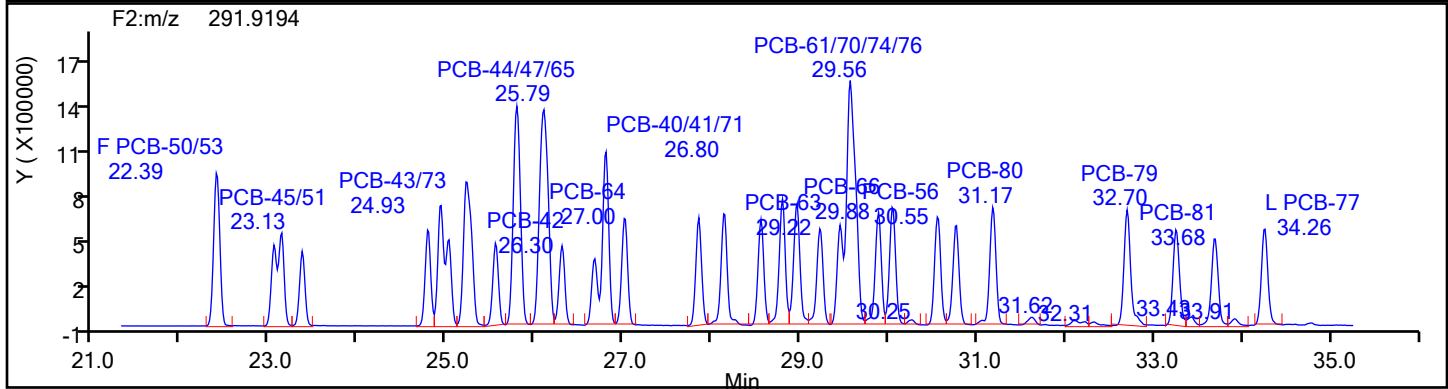
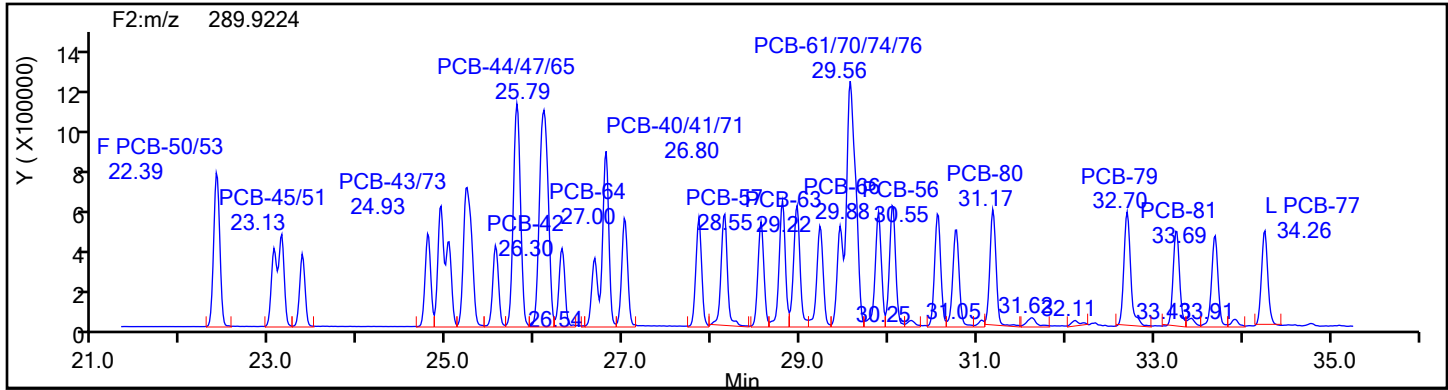
Worklist#: 87130

Sample Line#: 4

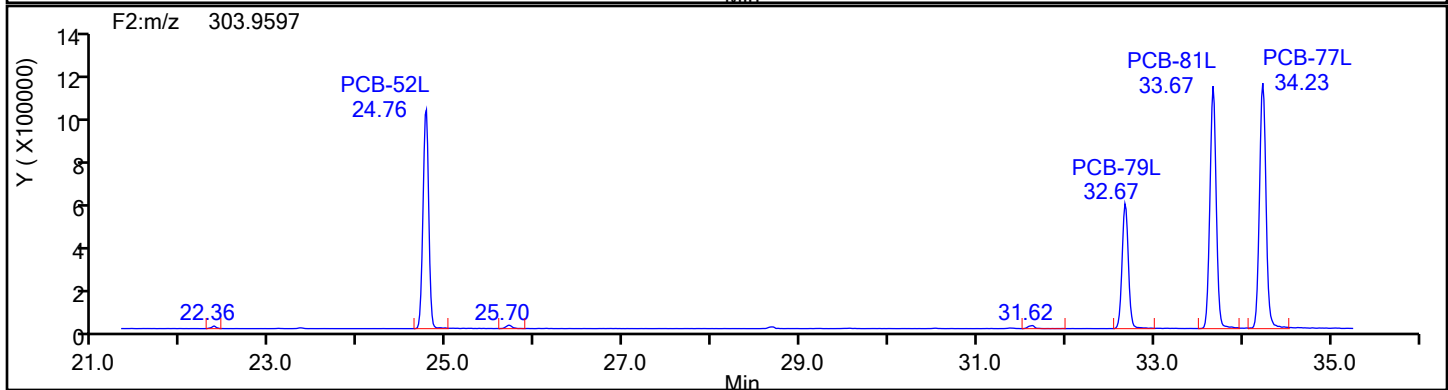
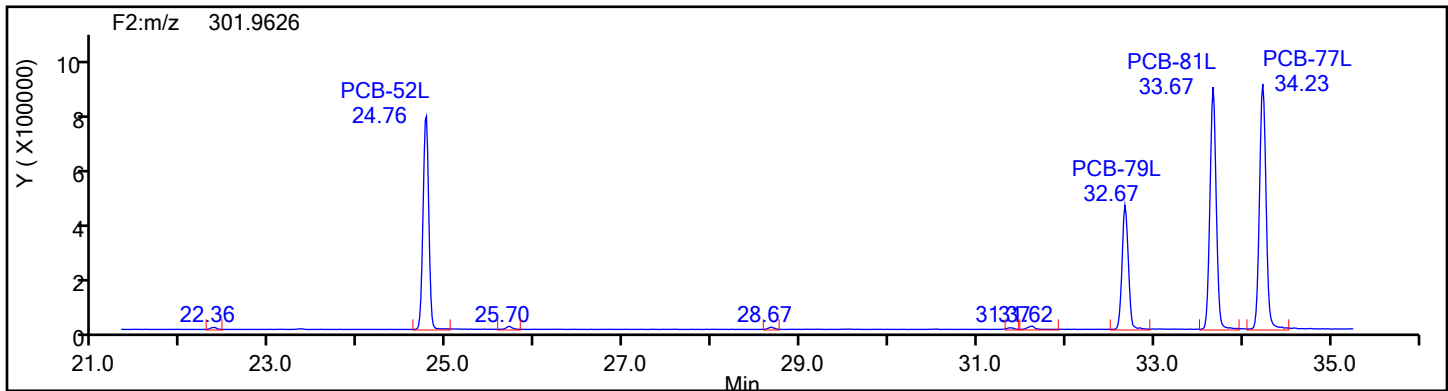
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

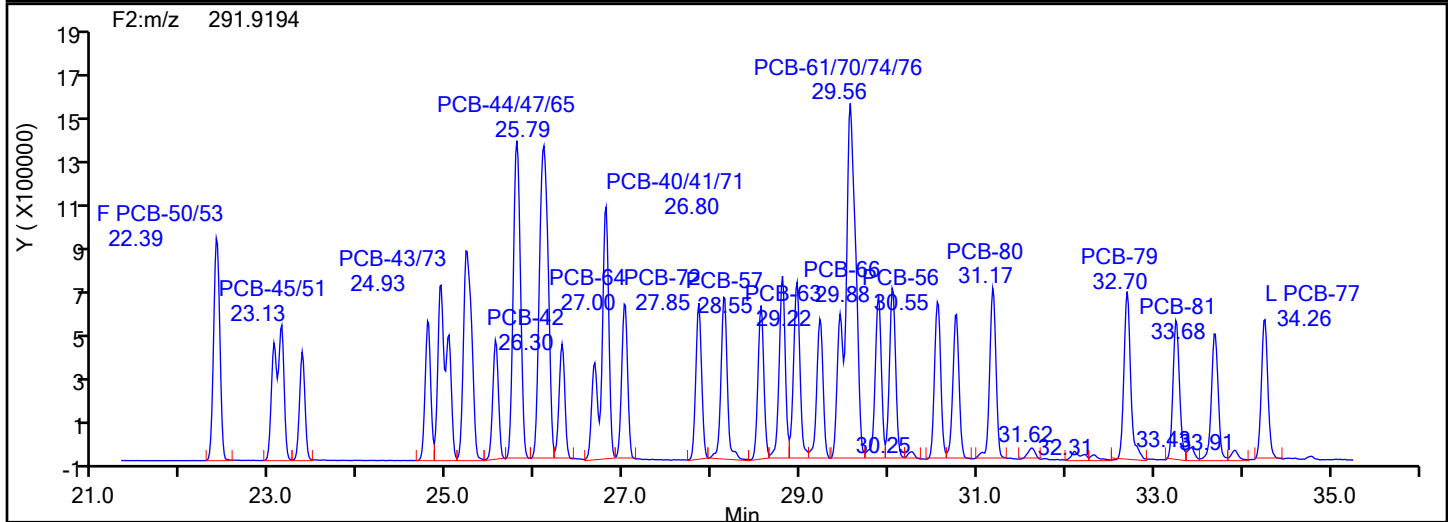
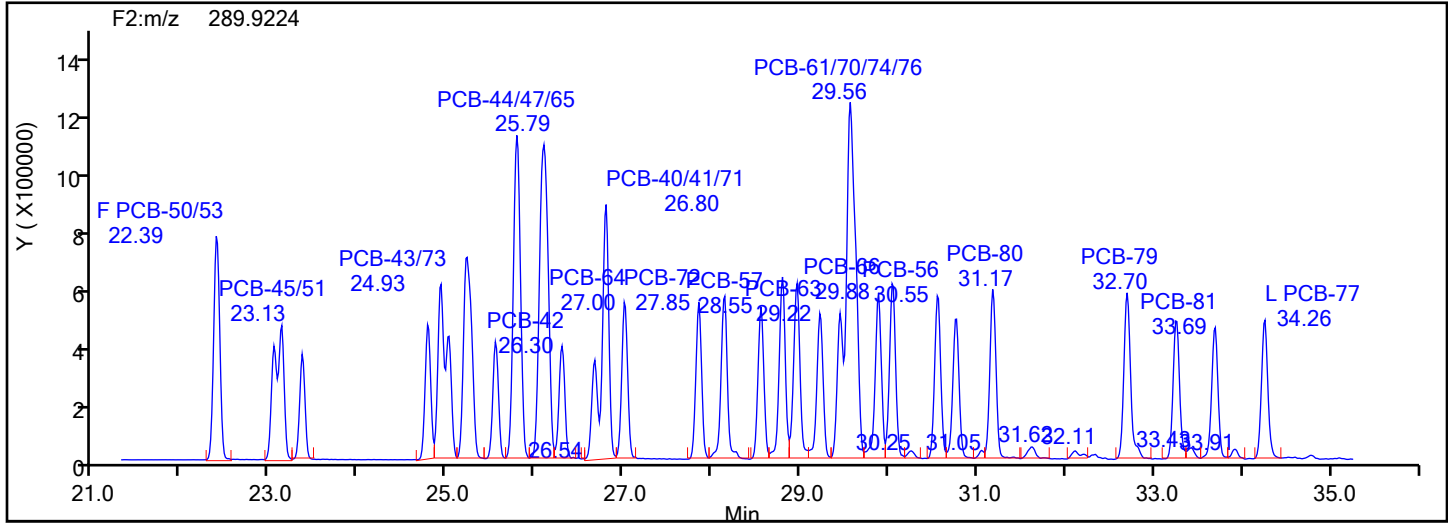
Worklist#: 87130

Sample Line#: 4

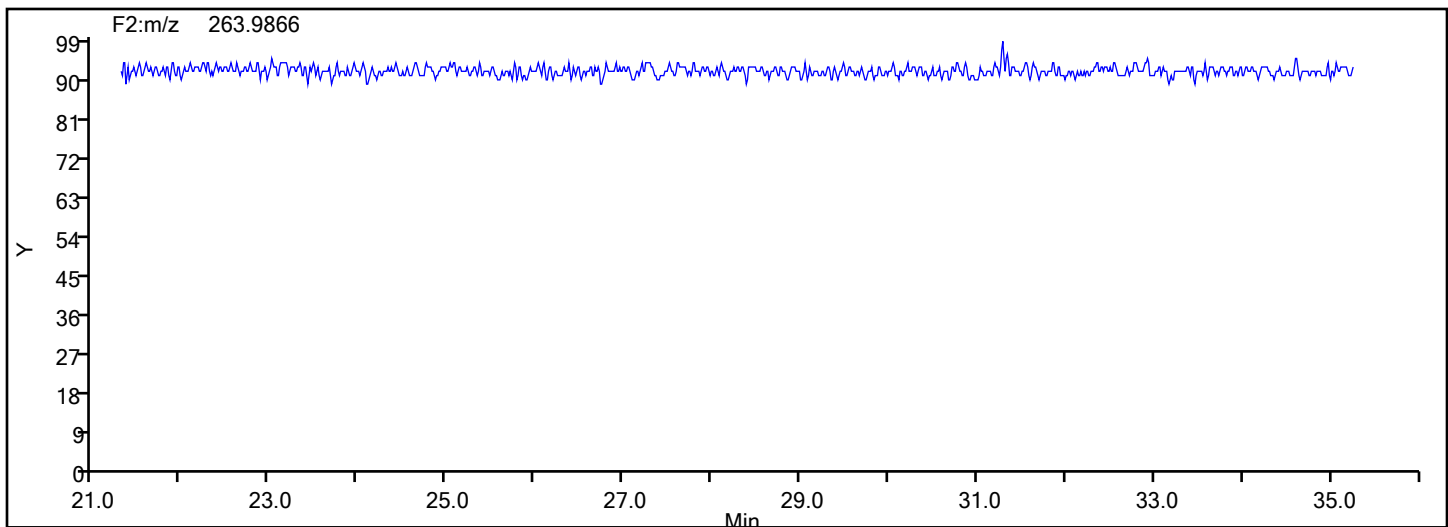
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

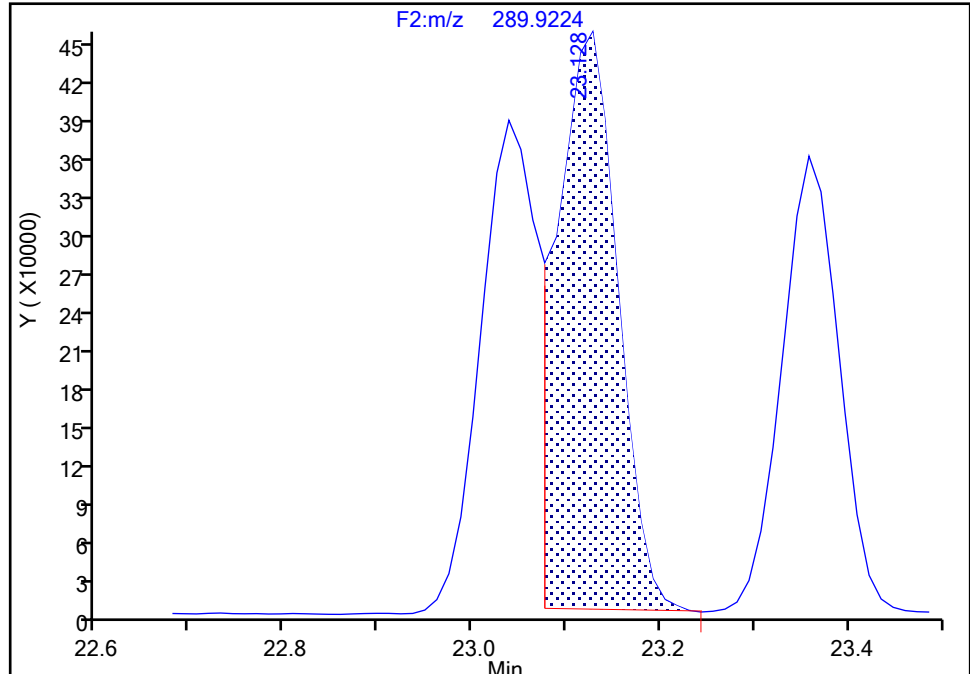
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

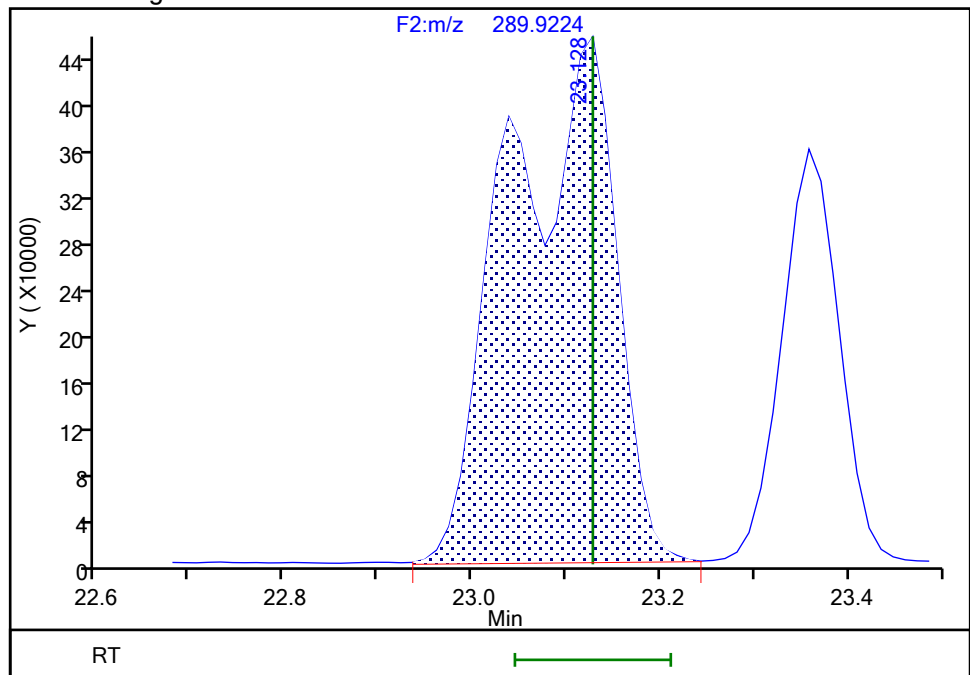
RT: 23.13
Area: 2002794
Amount: 67.548238
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 3620739
Amount: 100.2261
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

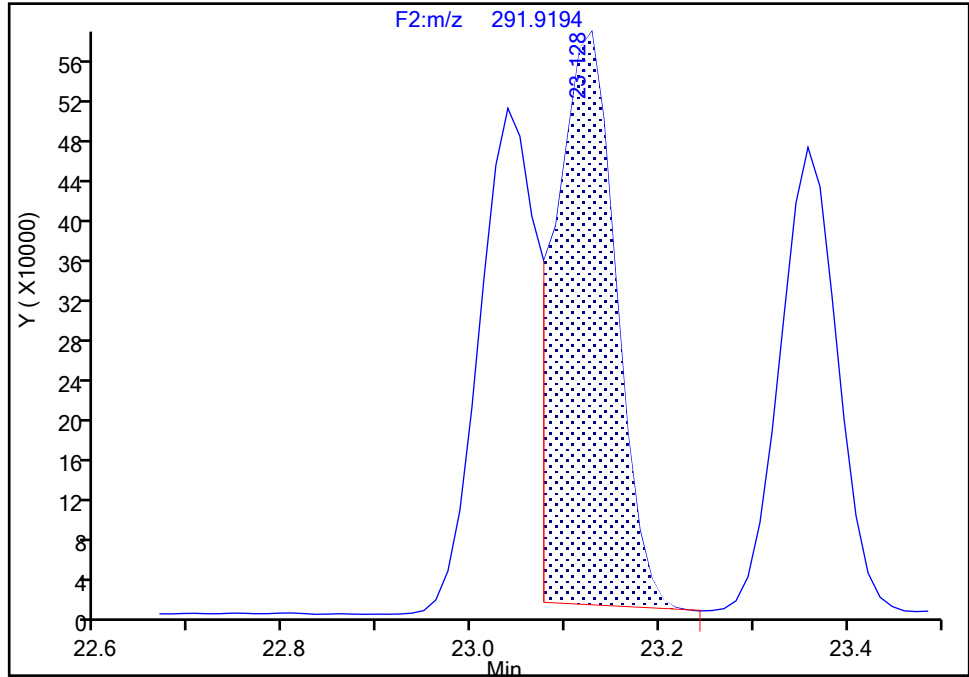
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

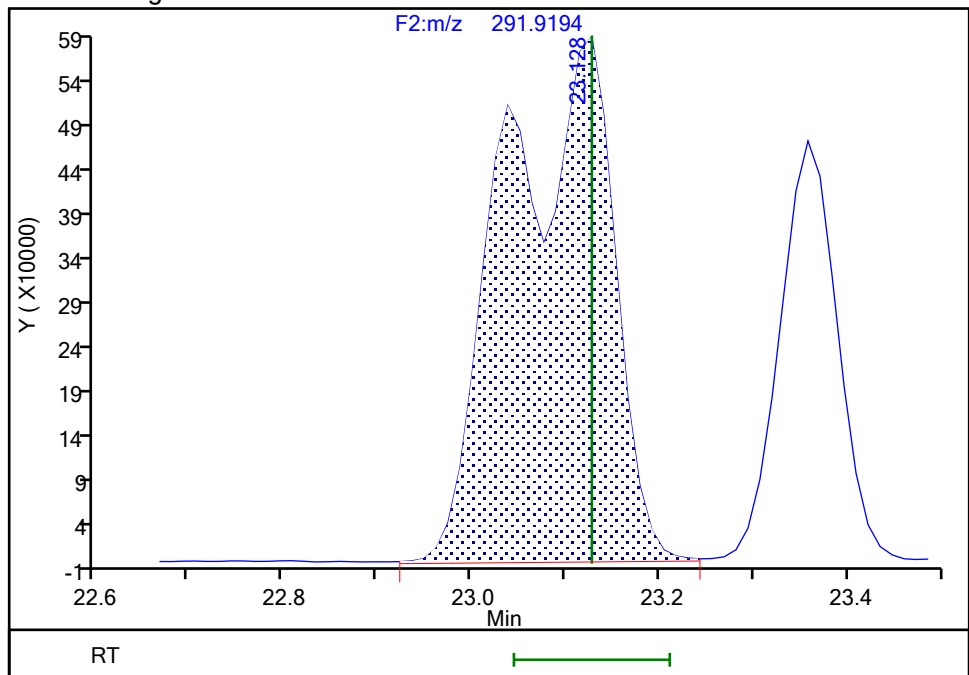
RT: 23.13
Area: 2503417
Amount: 67.548238
Amount Units: pg/ul

Processing Integration Results



RT: 23.13
Area: 4657473
Amount: 100.2261
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 2071 of 3050BASFHWC-McIntosh-010072
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

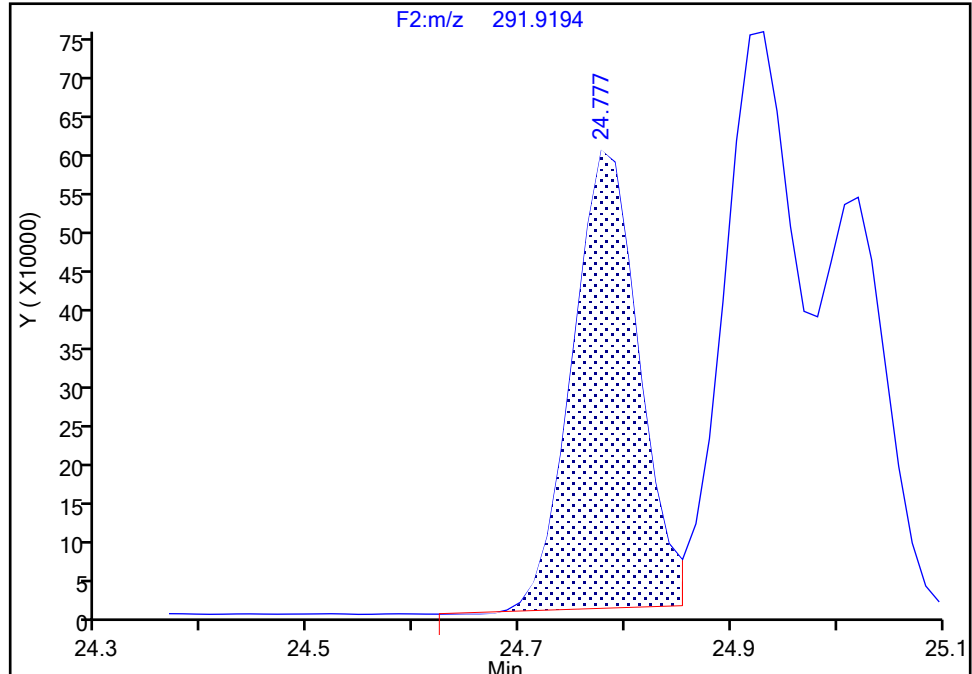
Detector F2(21.81 :35.54)

PCB-52, CAS: 35693-99-3

Signal: 2

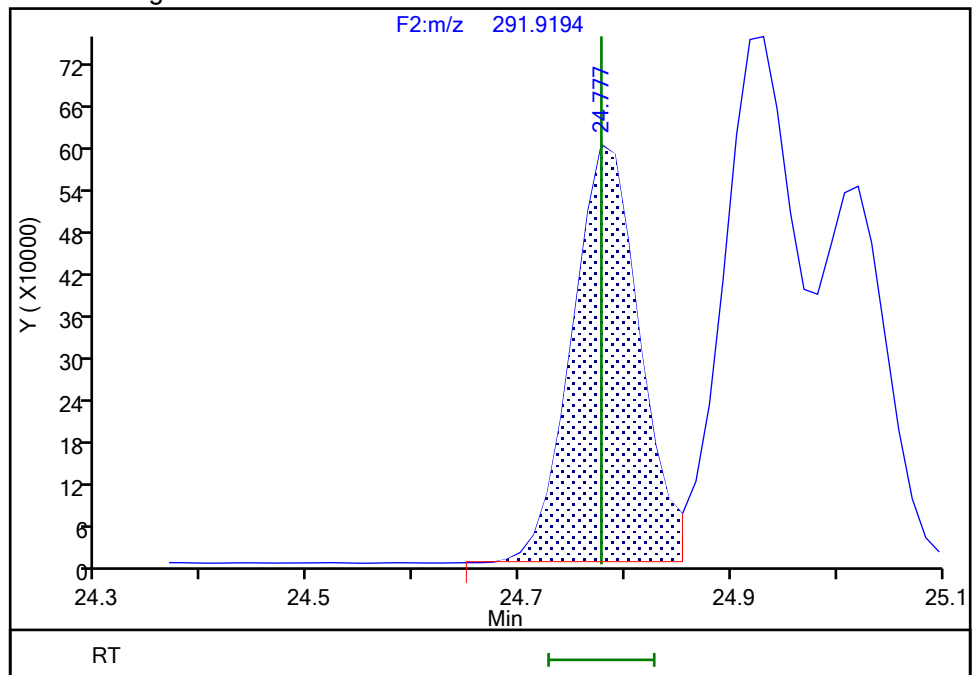
RT: 24.78
Area: 2593697
Amount: 51.914694
Amount Units: pg/ul

Processing Integration Results



RT: 24.78
Area: 2667090
Amount: 51.406431
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

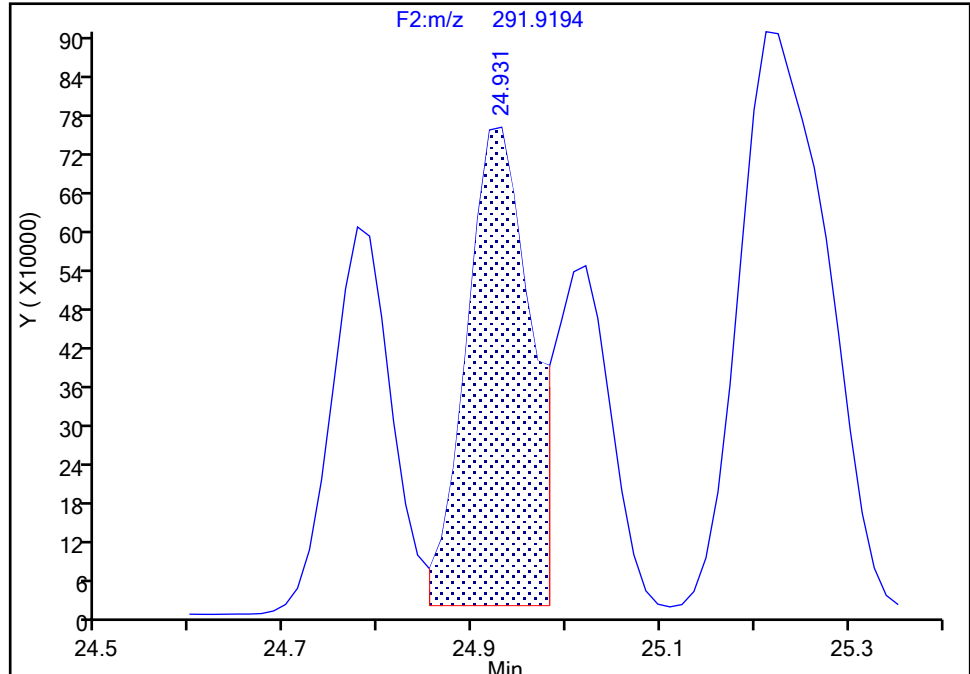
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

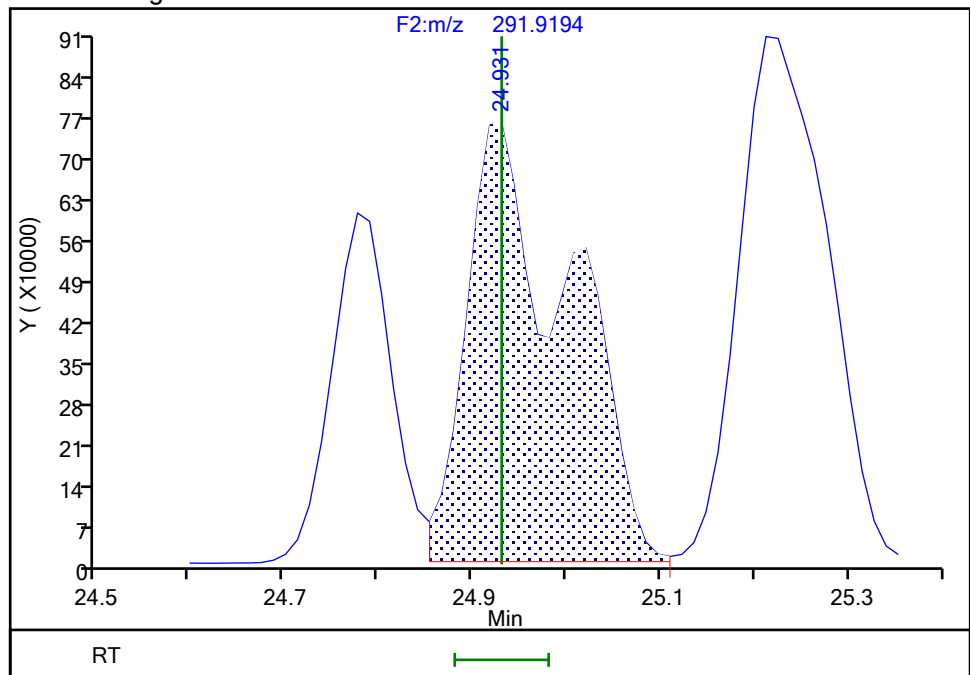
RT: 24.93
Area: 3481878
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 5740441
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

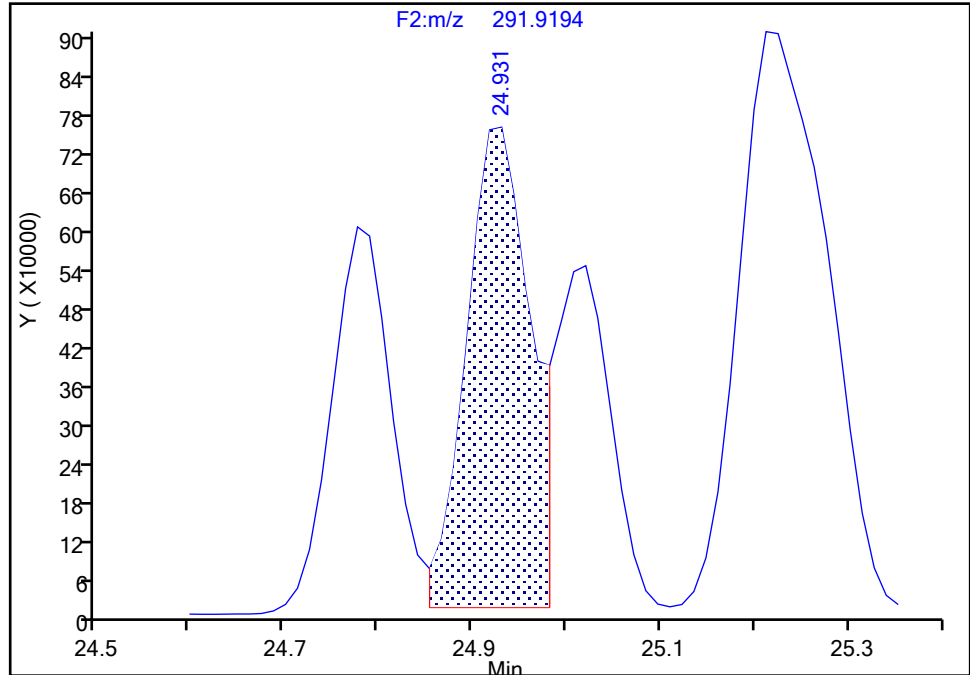
F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

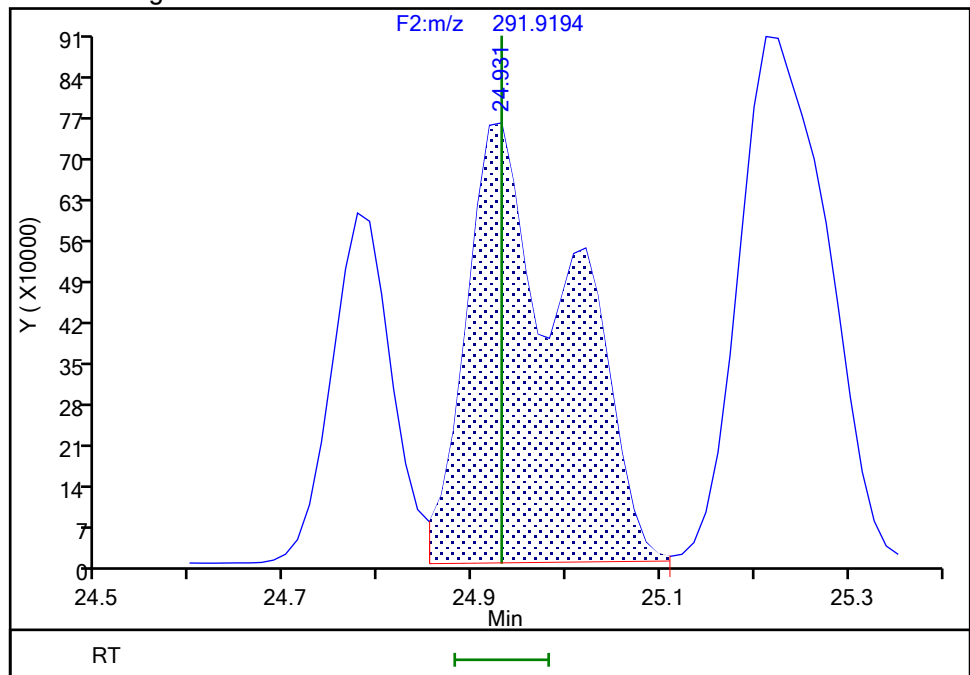
RT: 24.93
Area: 3481878
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 5740441
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2074 of 3050

BASFWHC-McIntosh-010075

9/6/2024

4:11:20 PM

Eurofins Knoxville

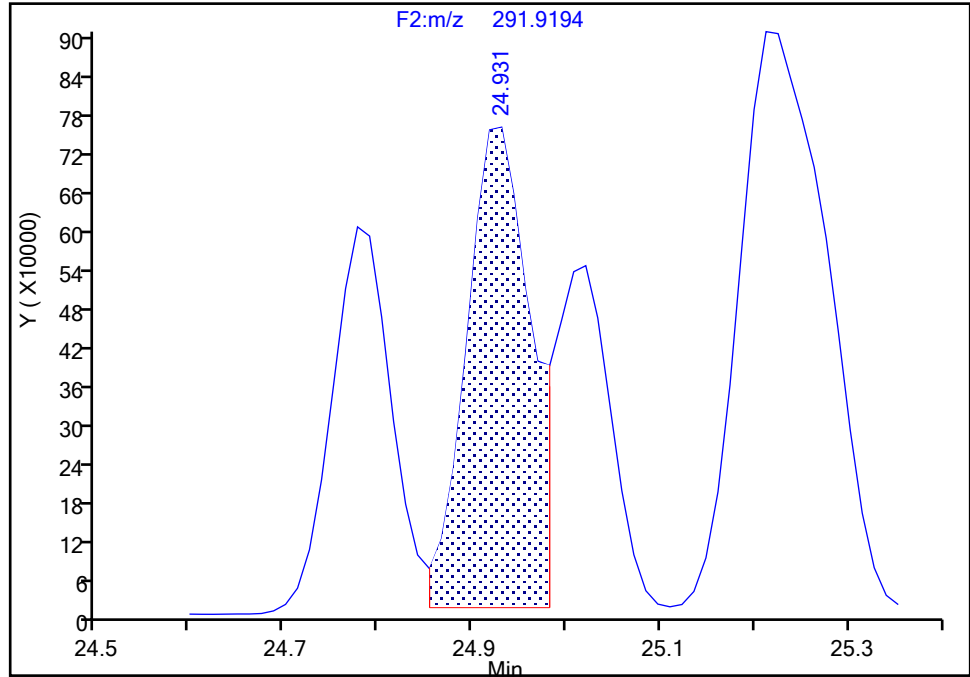
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 3

RT: 24.93
Area: 6287281
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 24.93
Area: 10270296
Amount: 99.446054
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

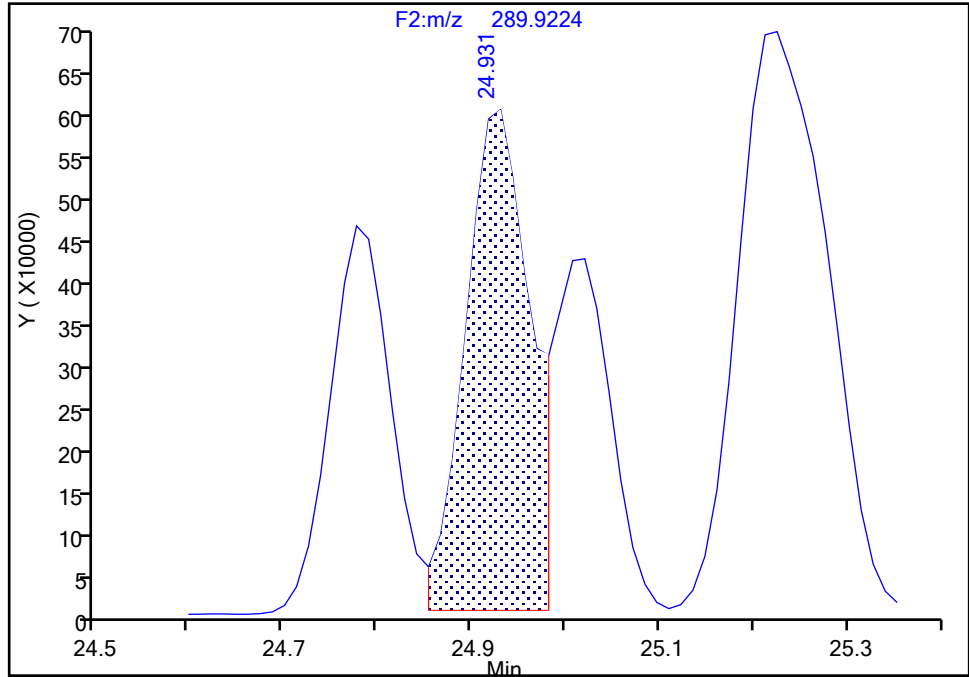
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

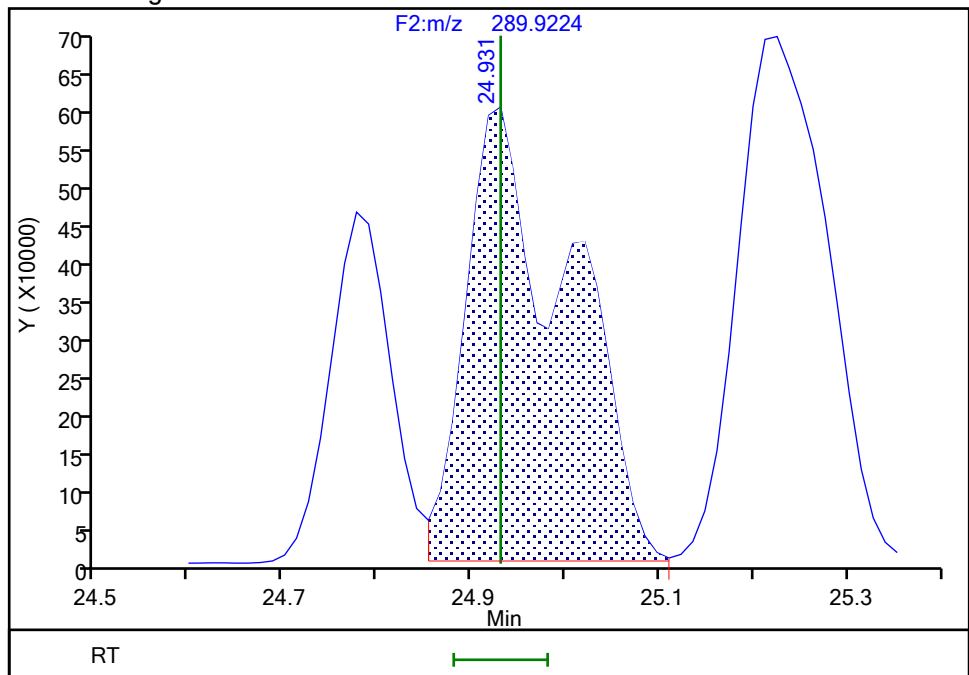
RT: 24.93
Area: 2805403
Amount: 72.083869
Amount Units: pg/ul

Processing Integration Results



RT: 24.93
Area: 4529855
Amount: 99.446054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:42 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

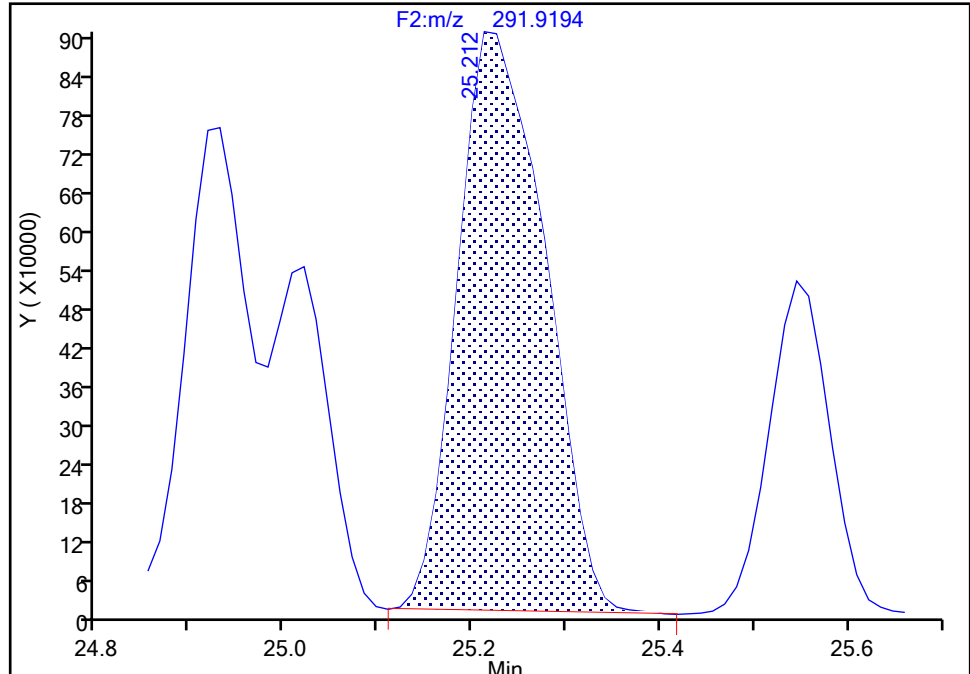
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

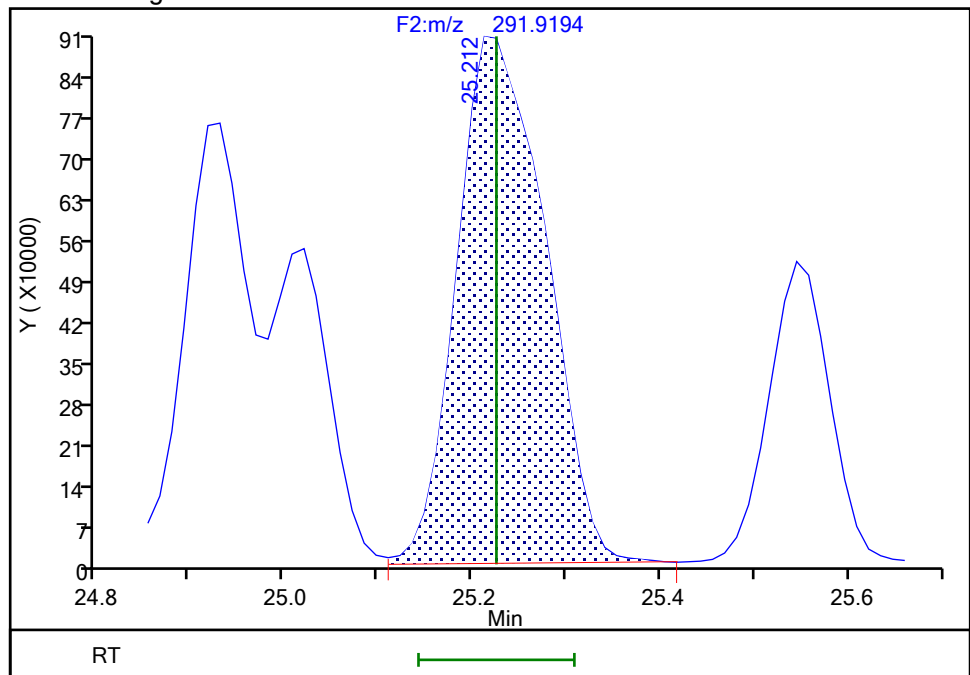
RT: 25.21
Area: 5829549
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.21
Area: 5920952
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

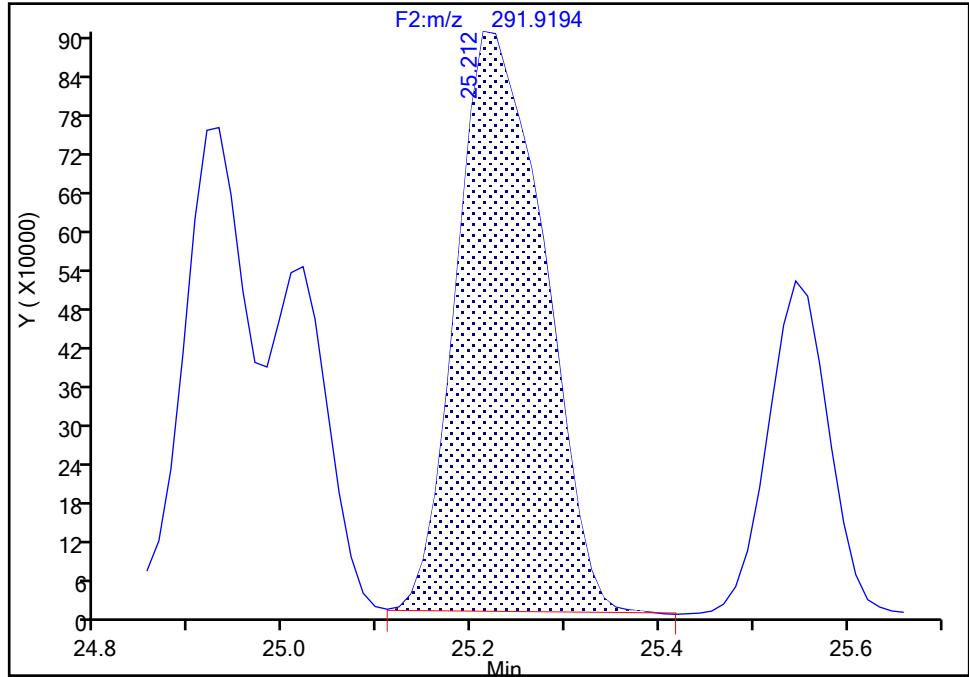
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

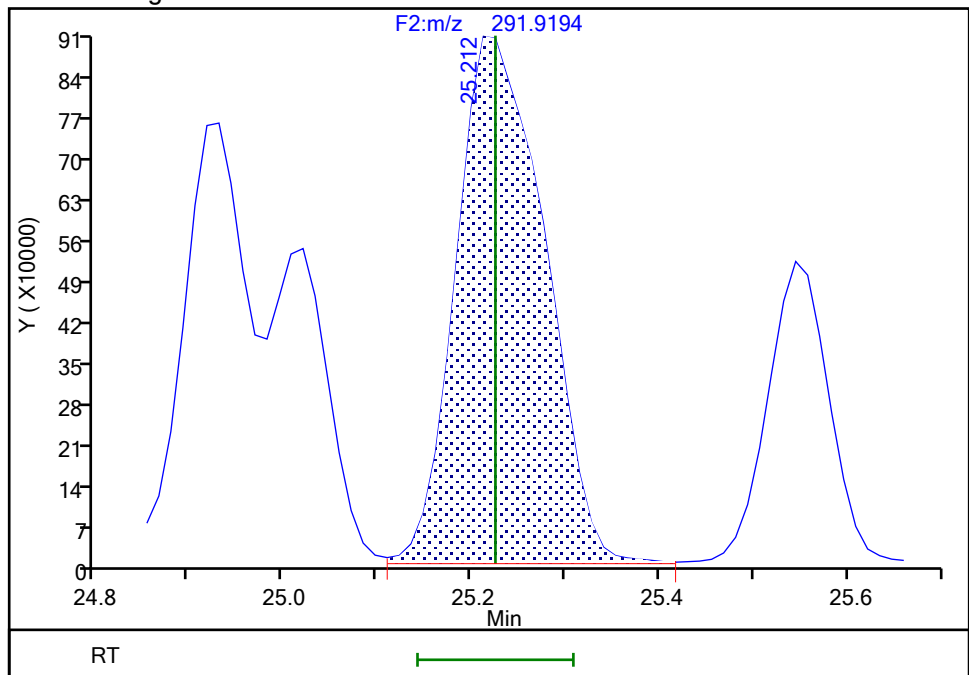
RT: 25.21
Area: 5829549
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.21
Area: 5920952
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2078 of 3050

BASFWHC-McIntosh-010079

9/6/2024

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Eurofins Knoxville

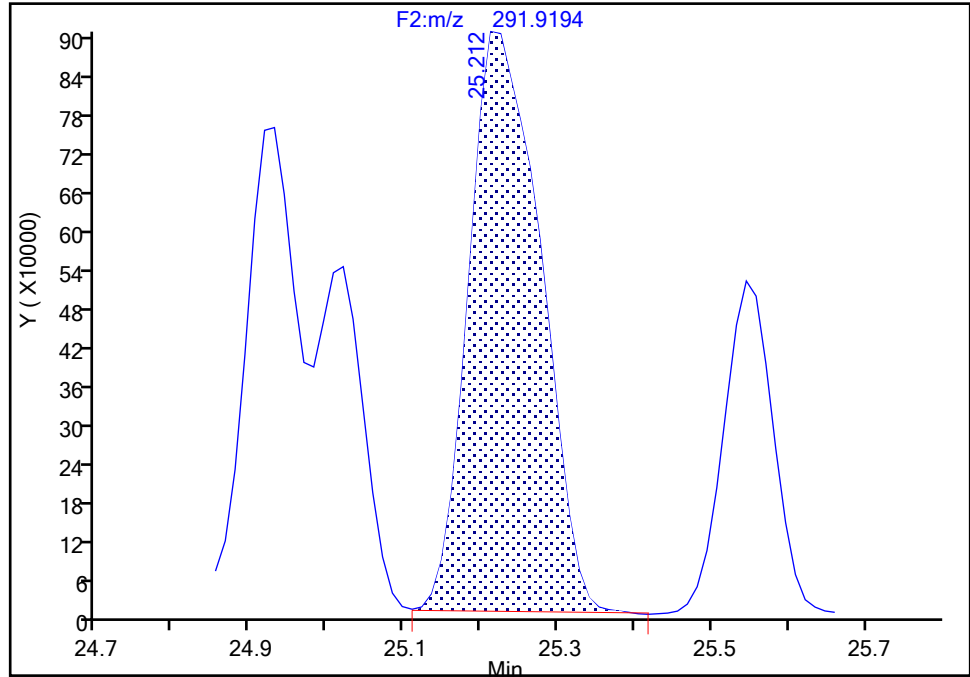
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 3

RT: 25.23
Area: 10399366
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 25.23
Area: 10490769
Amount: 98.235687
Amount Units: pg/ul
Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Knoxville

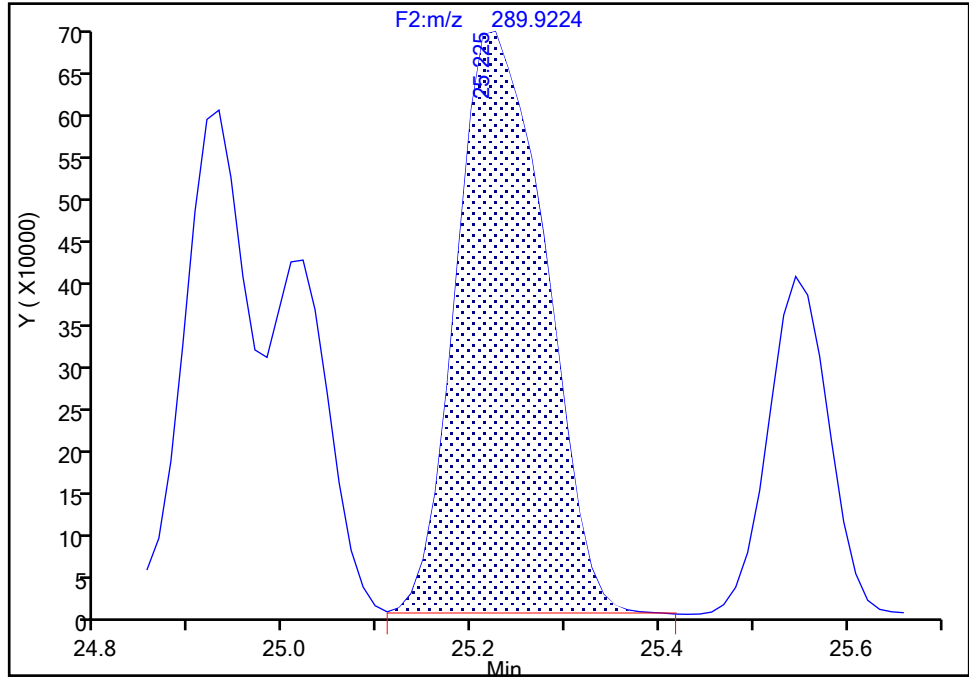
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 1

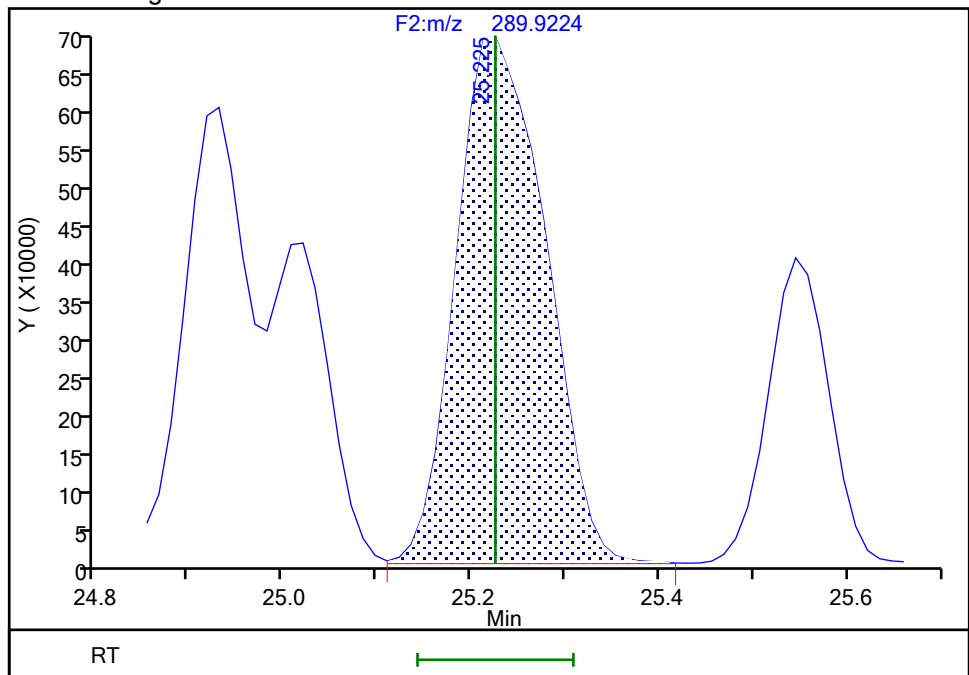
RT: 25.23
Area: 4569817
Amount: 101.3990
Amount Units: pg/ul

Processing Integration Results



RT: 25.23
Area: 4569817
Amount: 98.235687
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:47 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

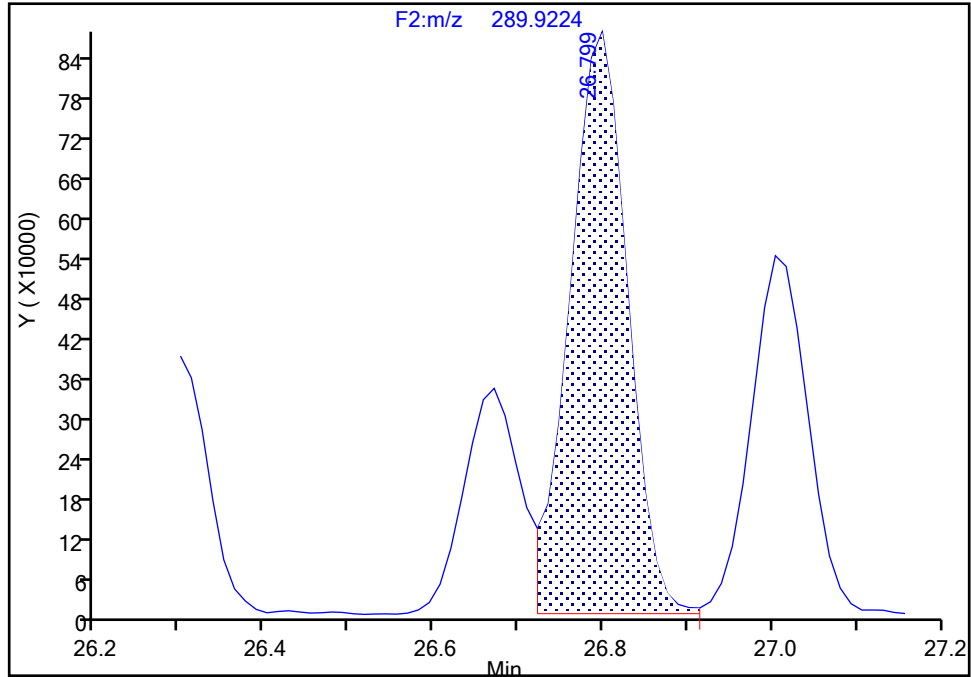
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

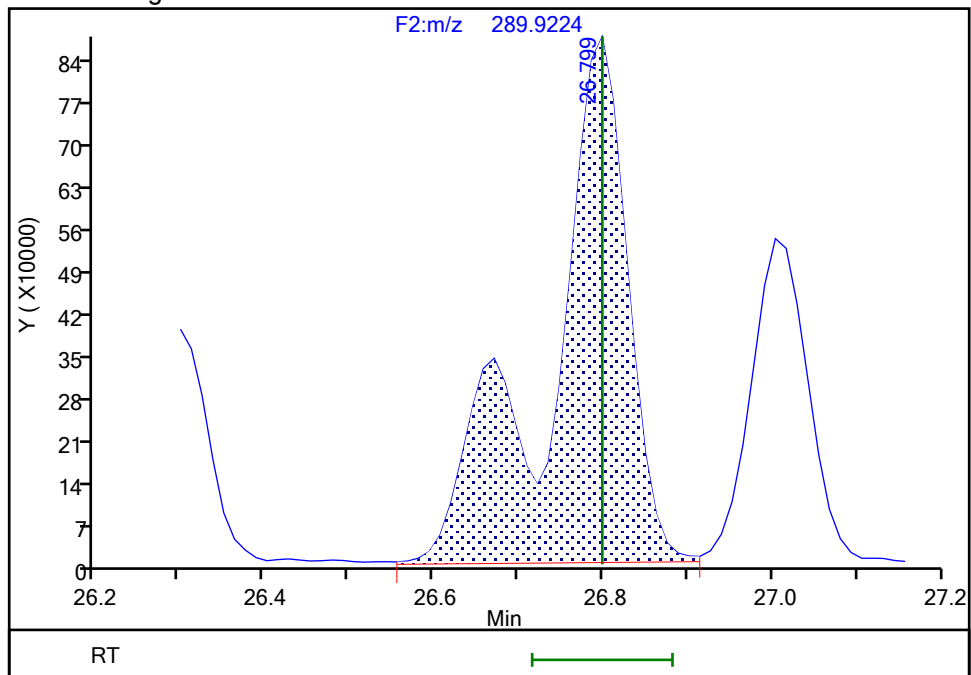
RT: 26.80
Area: 4106860
Amount: 120.2858
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 5676547
Amount: 144.2424
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

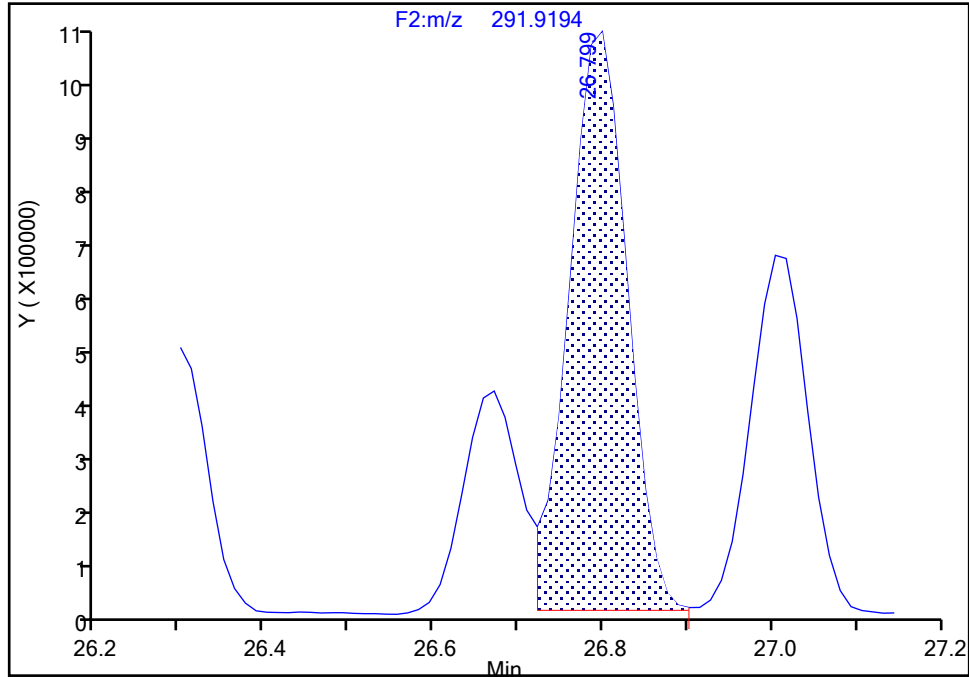
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

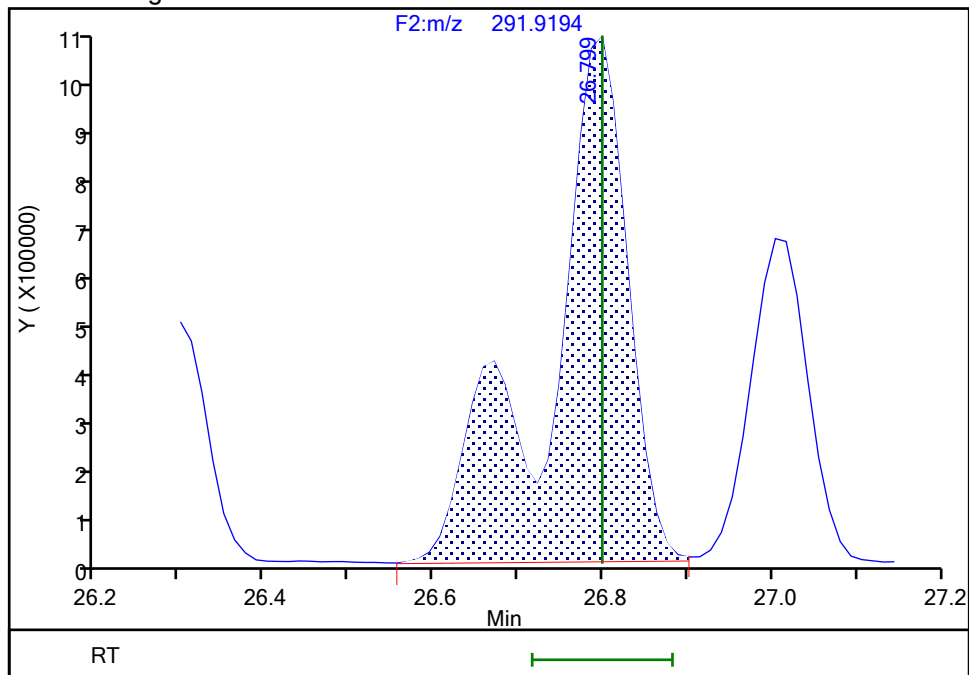
RT: 26.80
Area: 5159837
Amount: 120.2858
Amount Units: pg/ul

Processing Integration Results



RT: 26.80
Area: 7100823
Amount: 144.2424
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2082 of 3050

BASFWC-McIntosh-010083

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

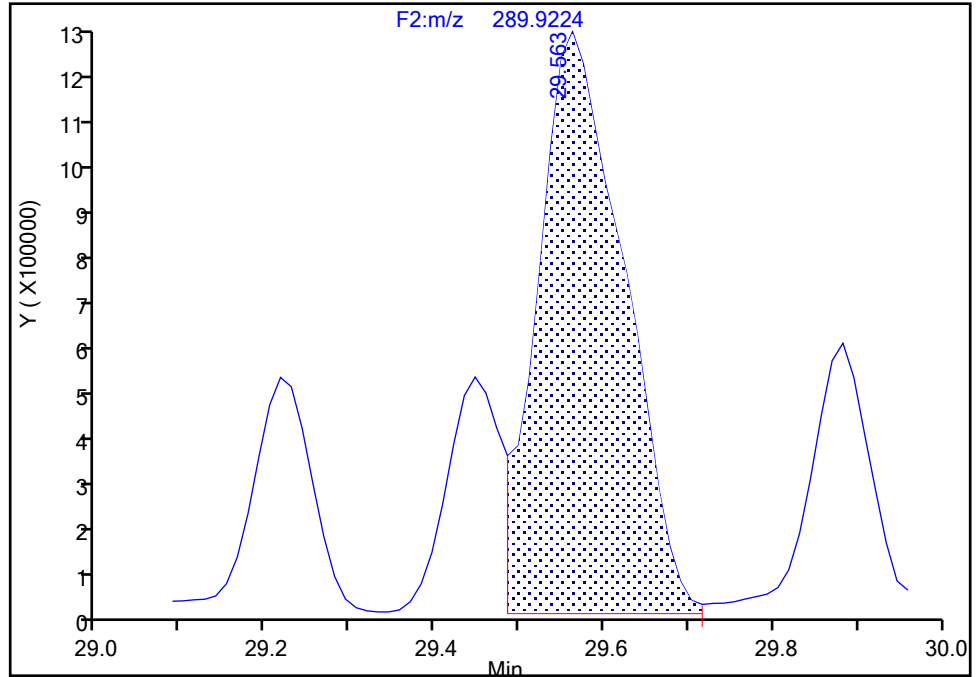
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

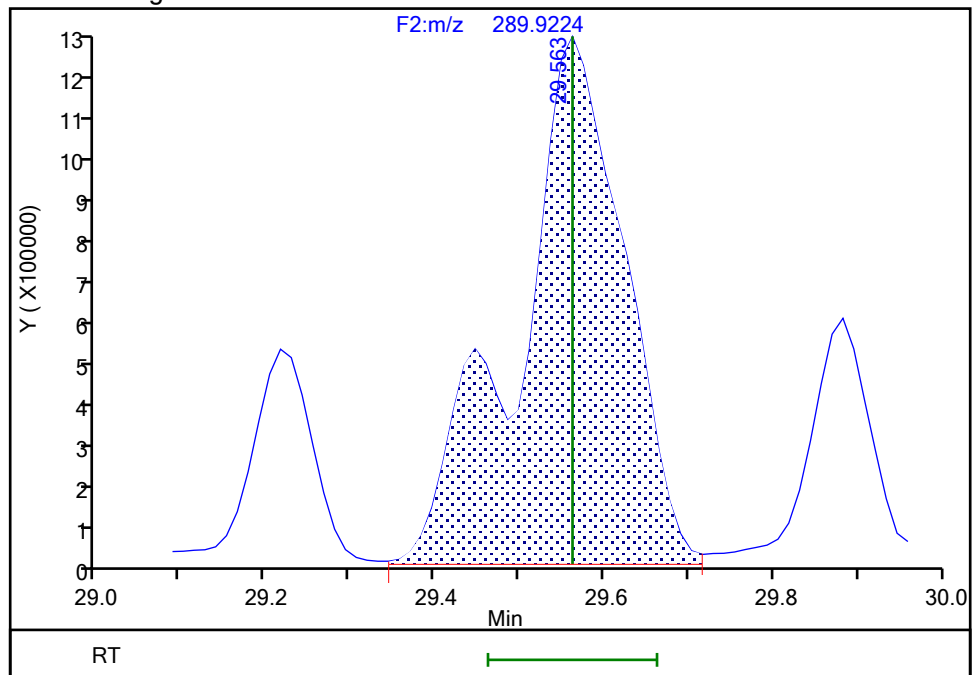
RT: 29.56
Area: 8639683
Amount: 171.0726
Amount Units: pg/ul

Processing Integration Results



RT: 29.56
Area: 10773903
Amount: 192.4208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

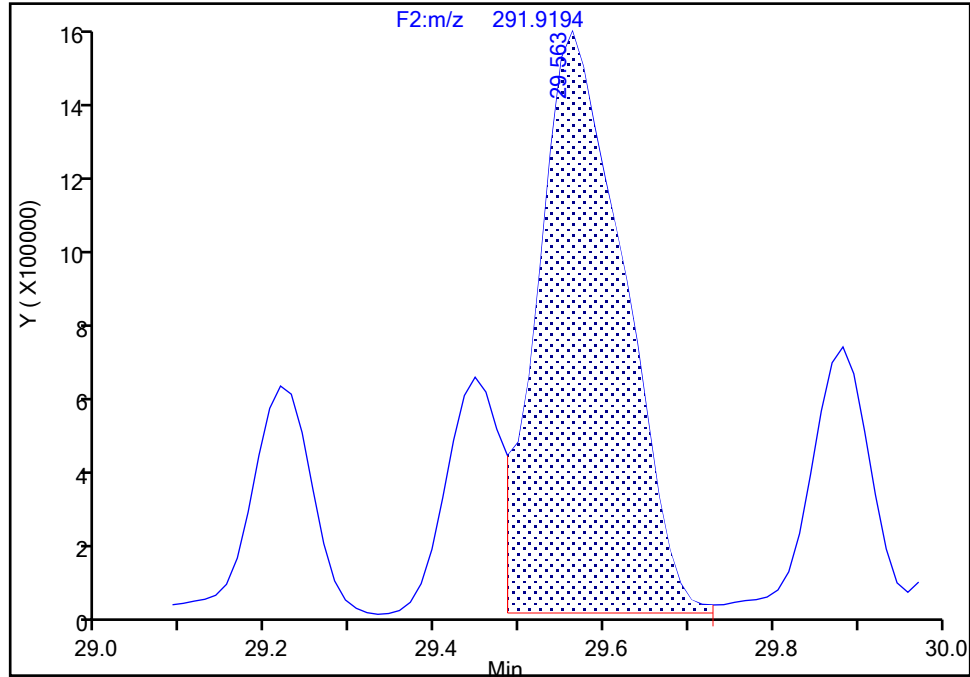
F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 2

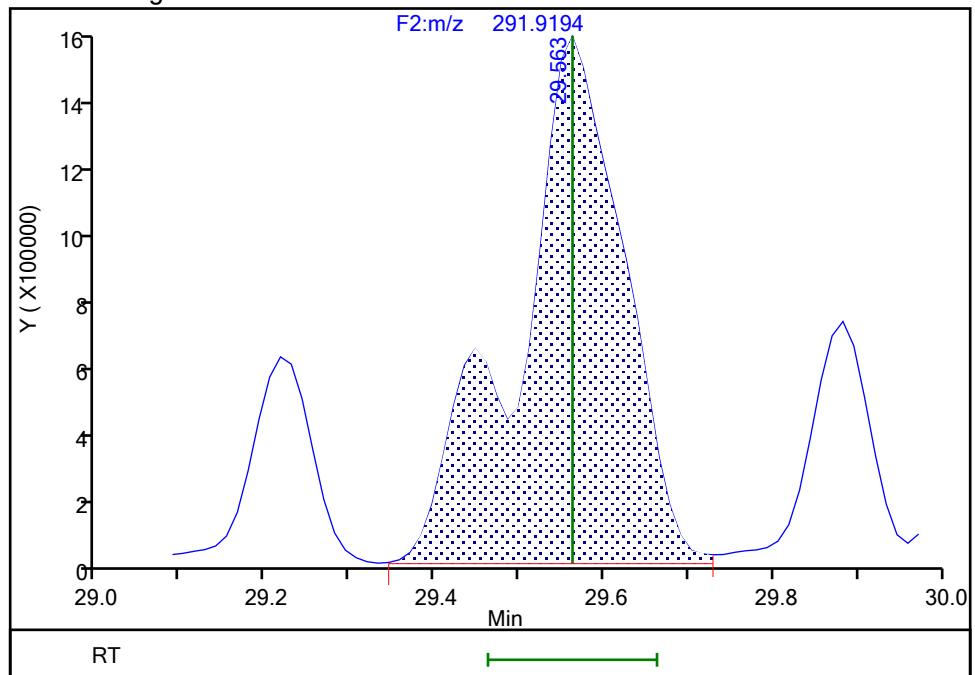
RT: 29.56
Area: 10760126
Amount: 171.0726
Amount Units: pg/ul

Processing Integration Results



RT: 29.56
Area: 13481106
Amount: 192.4208
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2084 of 3050

BASFWHC-McIntosh-010085

9/6/2024

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Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

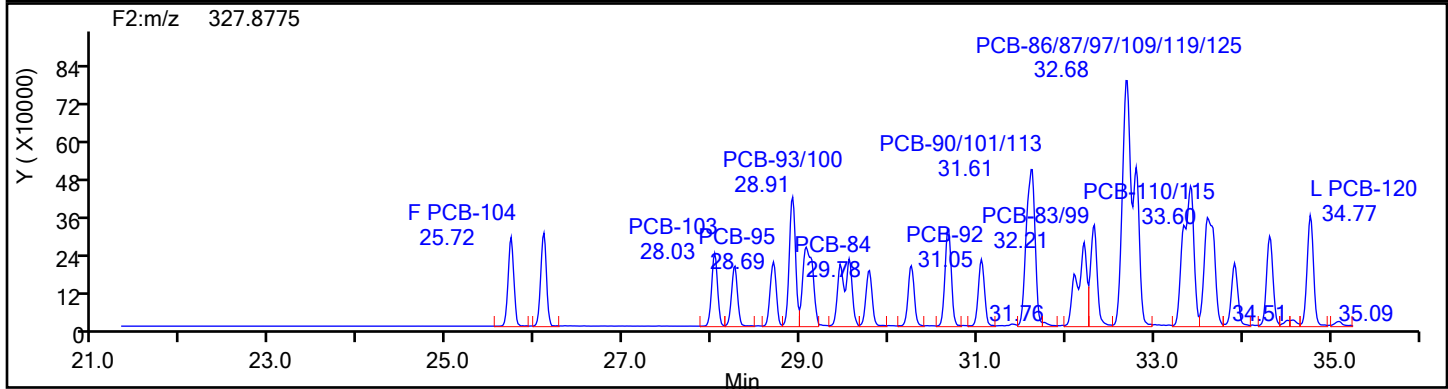
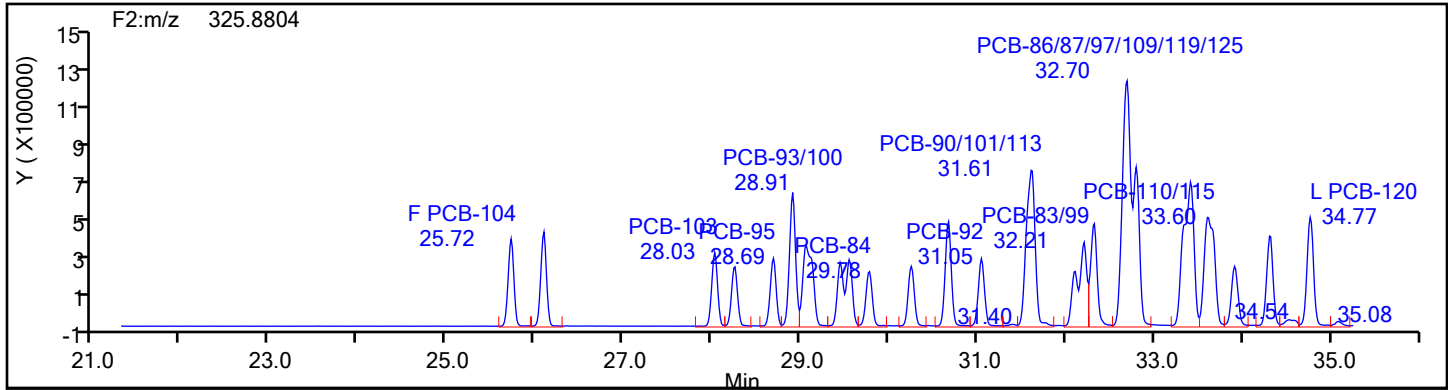
Worklist#: 87130

Sample Line#: 4

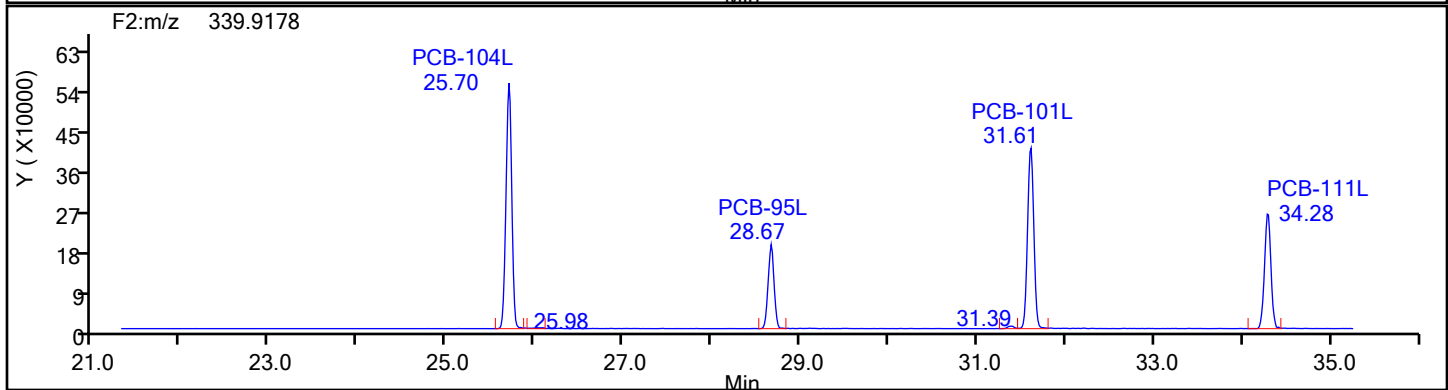
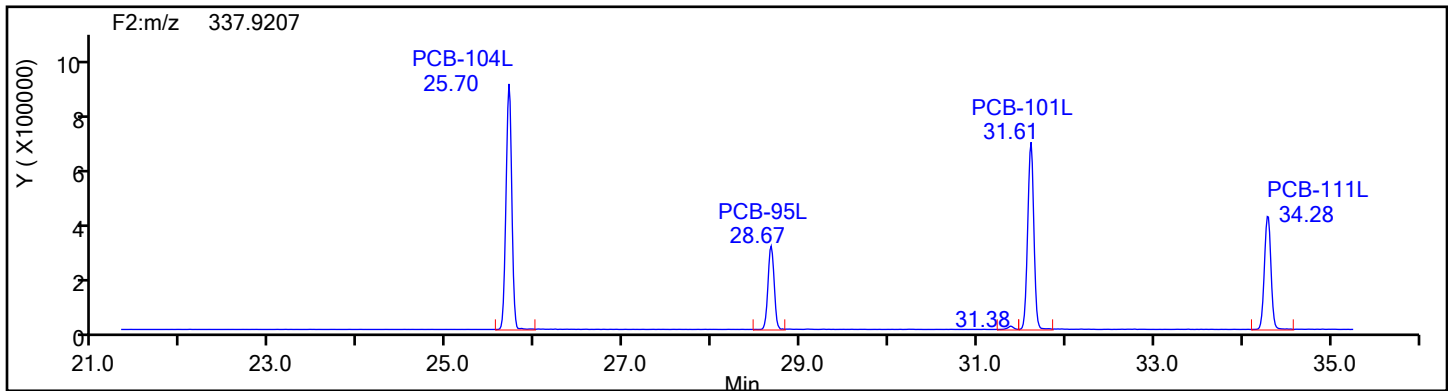
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

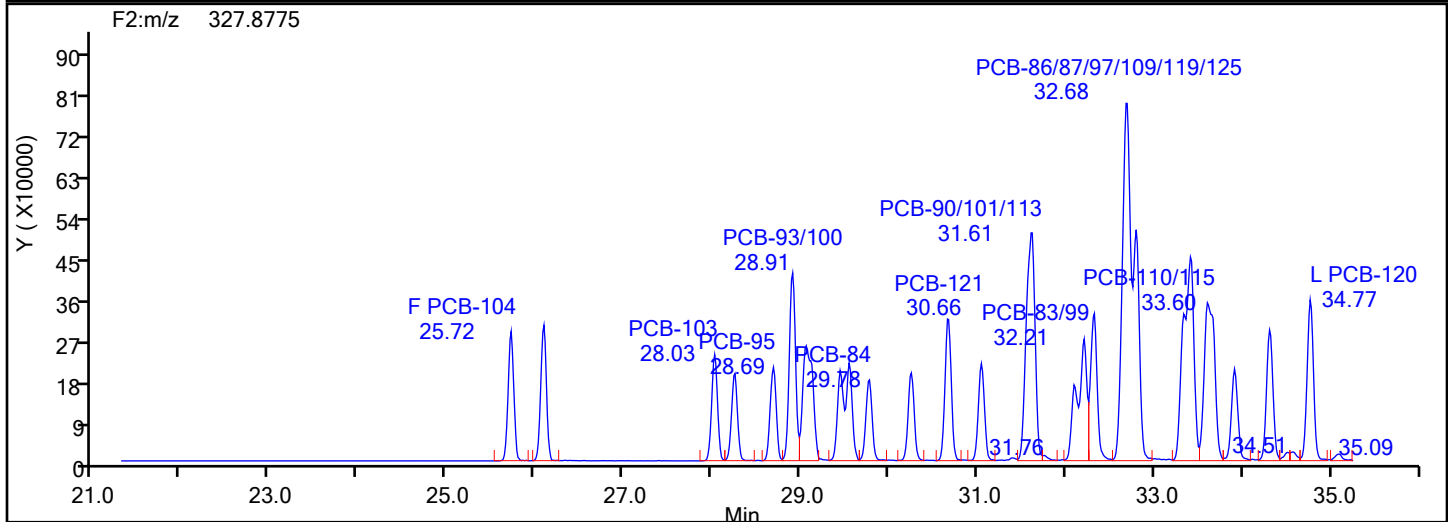
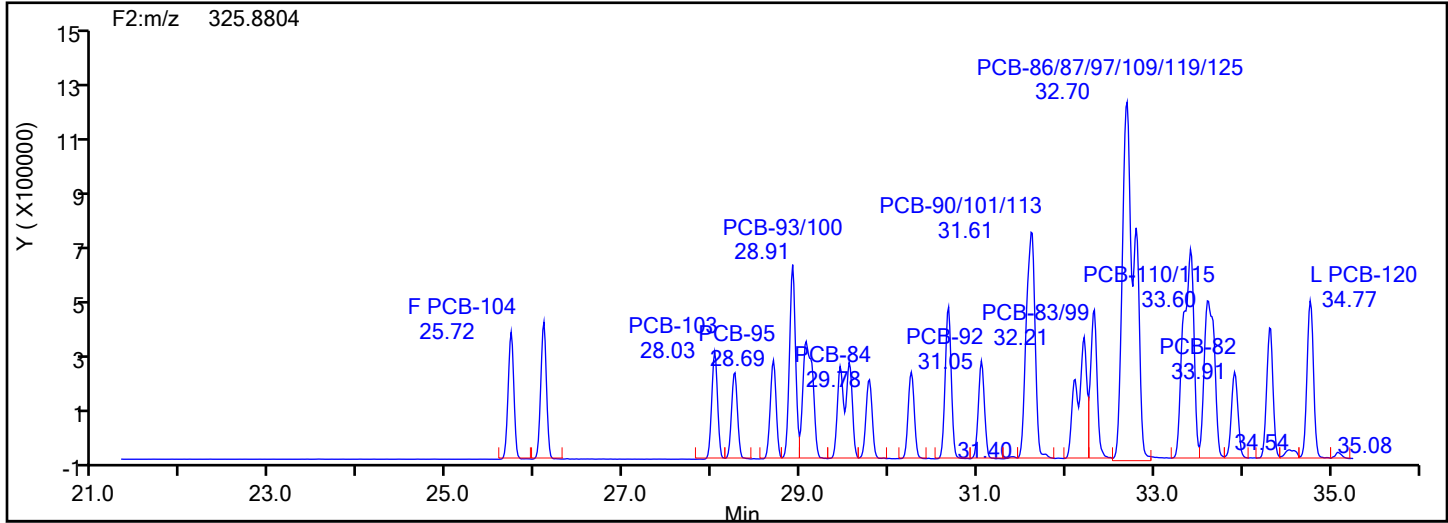


PePCB F2 Standards

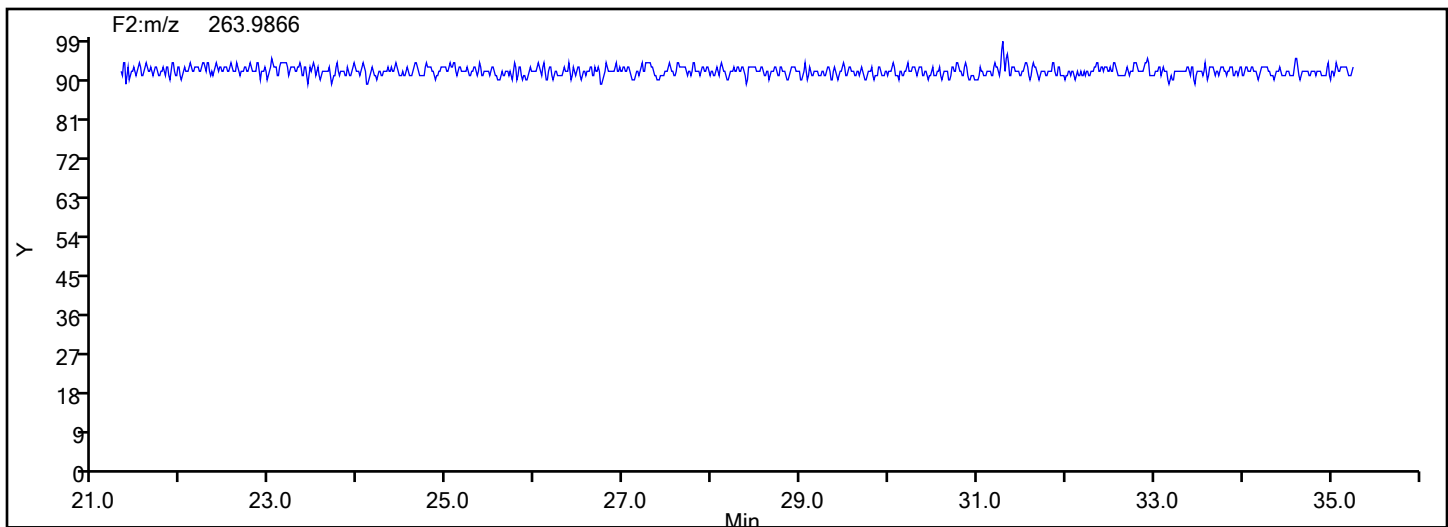


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

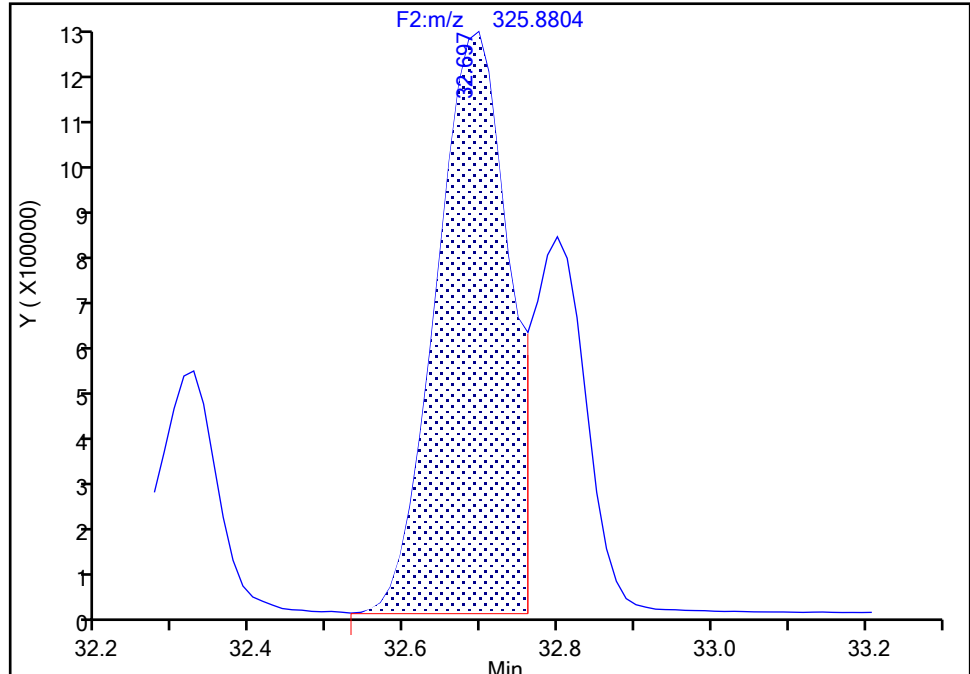
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

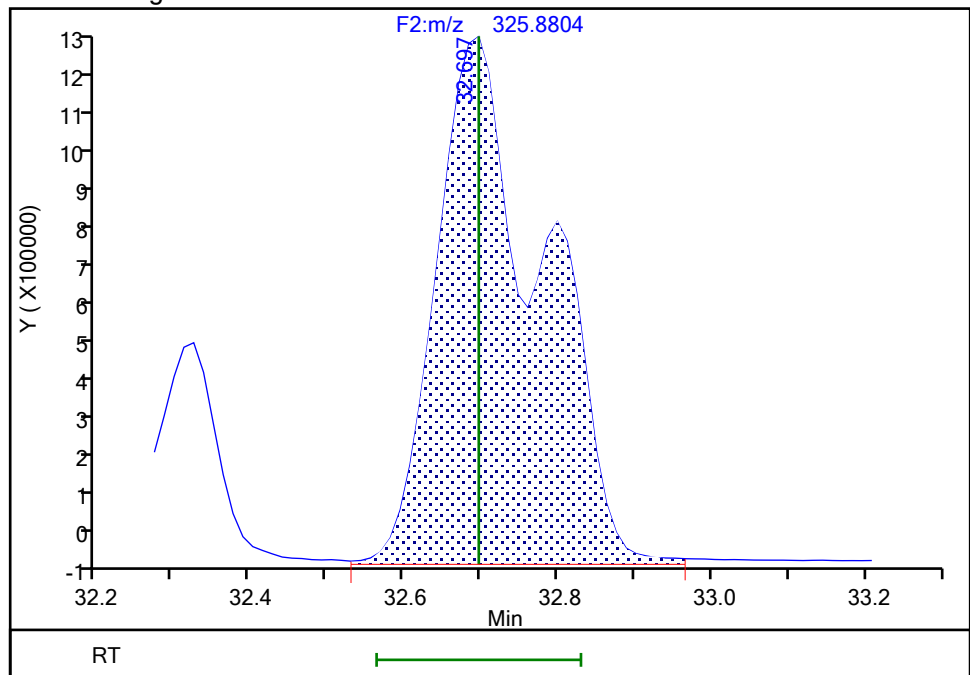
RT: 32.70
Area: 8077860
Amount: 221.5580
Amount Units: pg/ul

Processing Integration Results



RT: 32.70
Area: 11933595
Amount: 286.9480
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:26:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

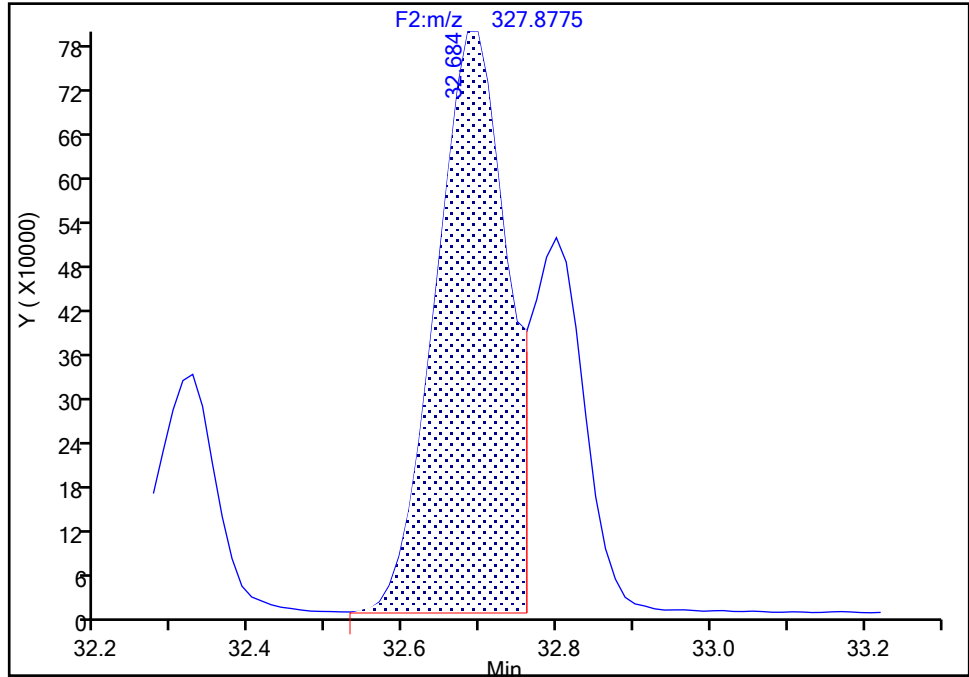
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

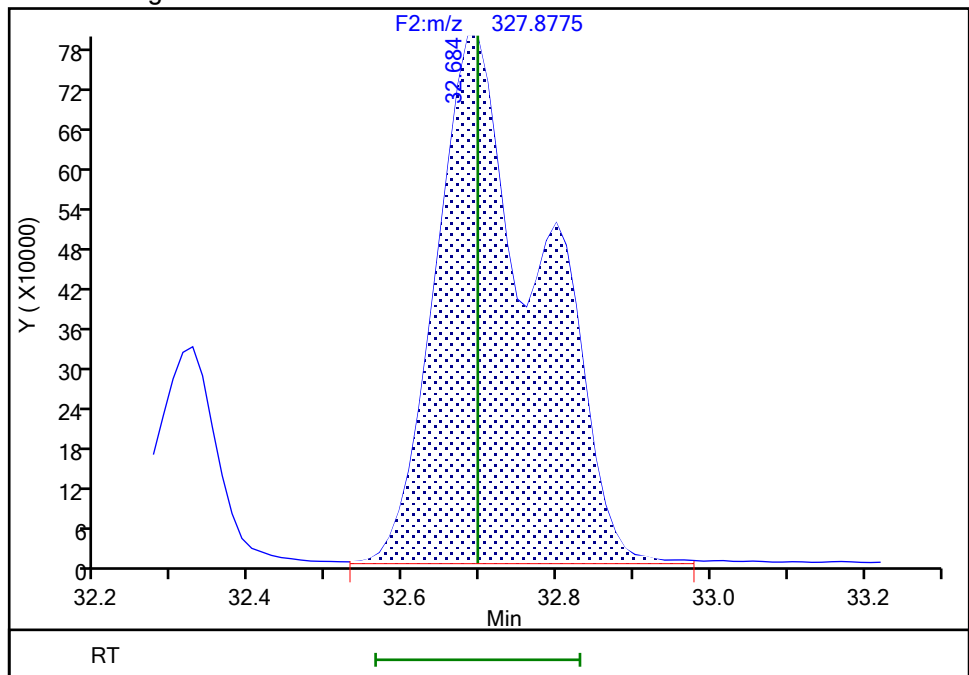
RT: 32.68
Area: 5097479
Amount: 221.5580
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 7465580
Amount: 286.9480
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2088 of 3050

BASFWC-McIntosh-010089

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

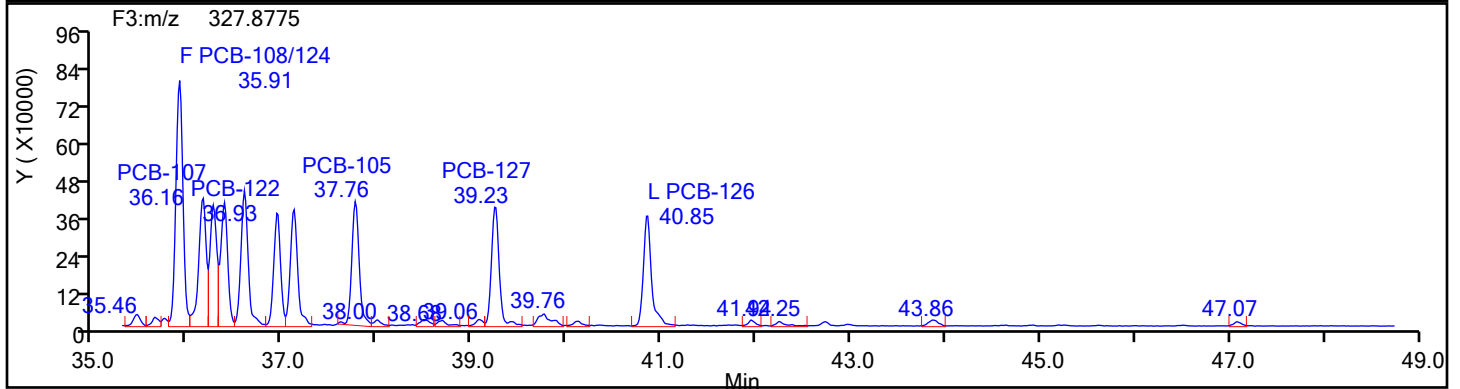
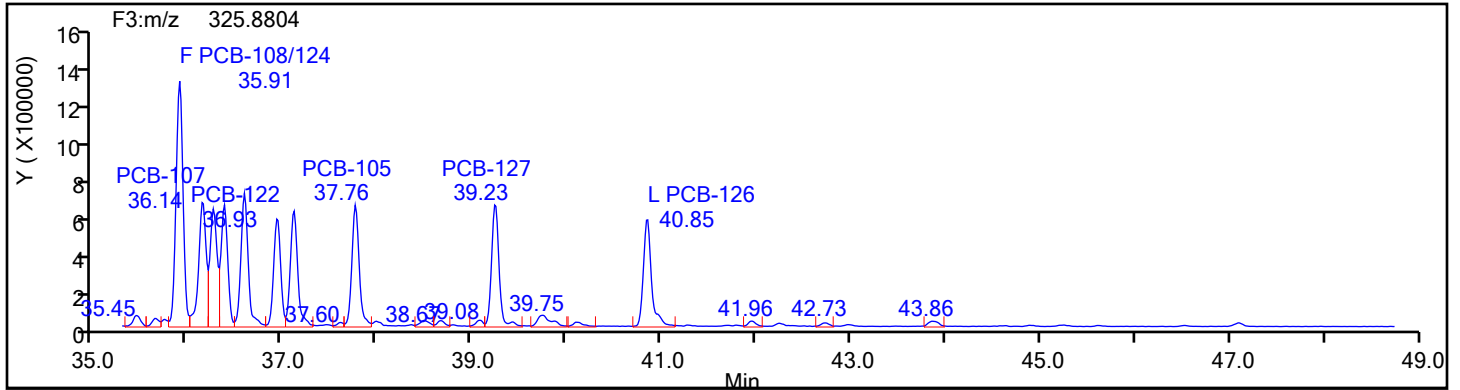
Worklist#: 87130

Sample Line#: 4

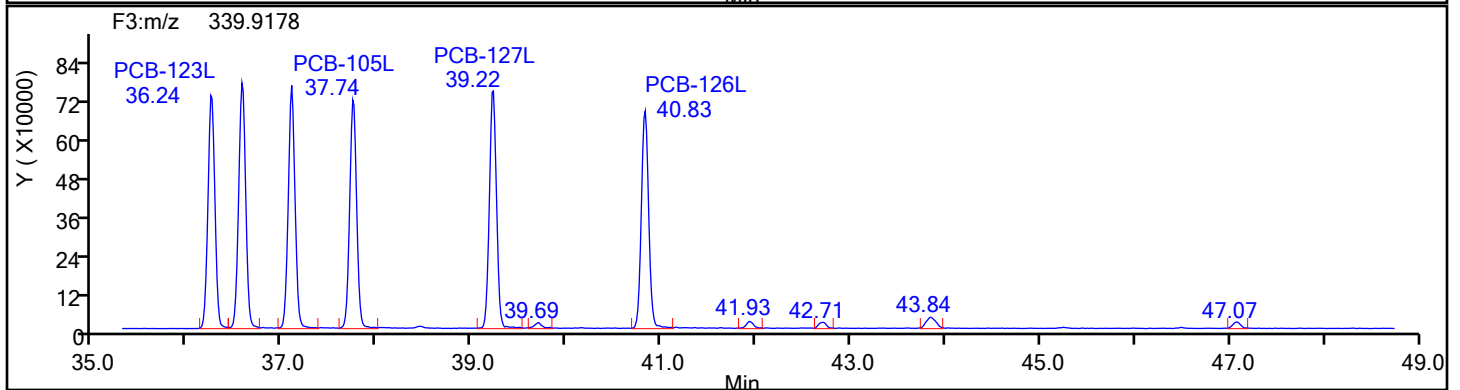
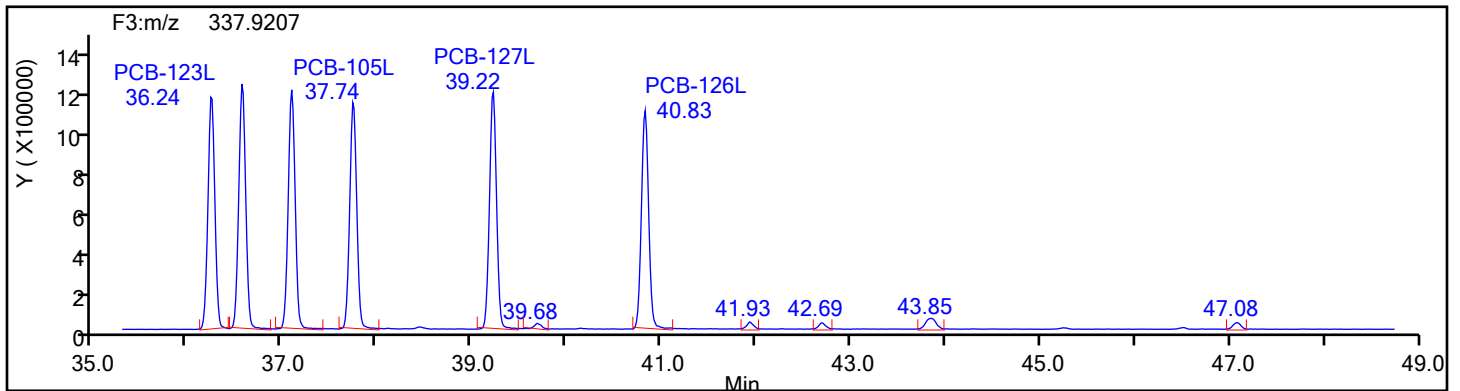
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

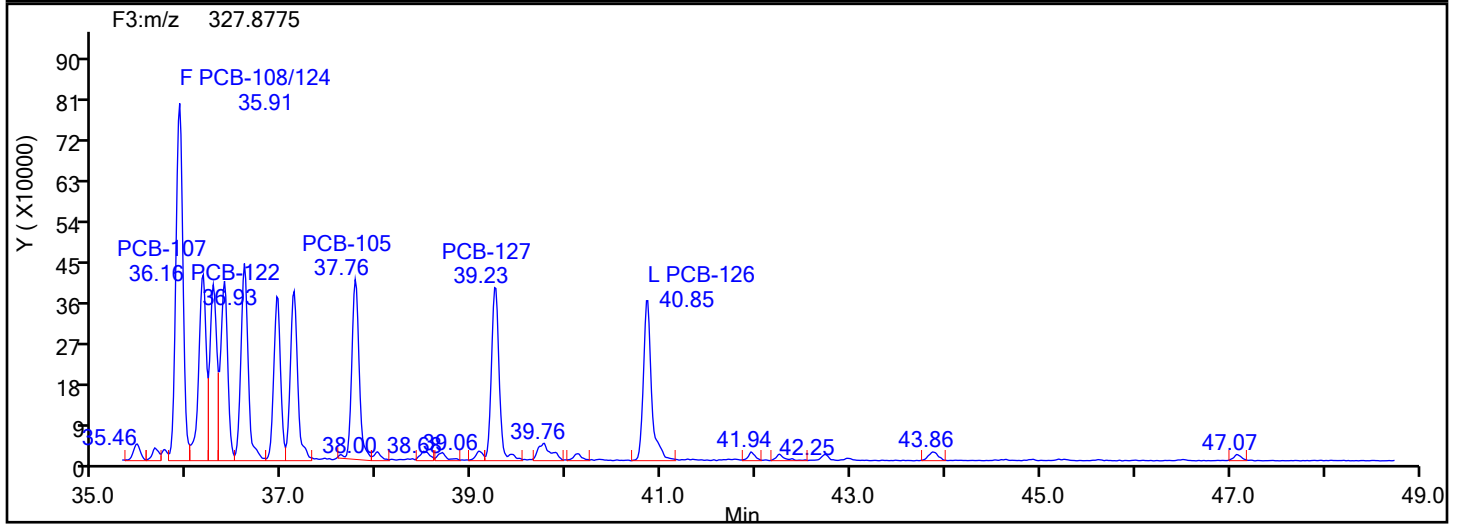
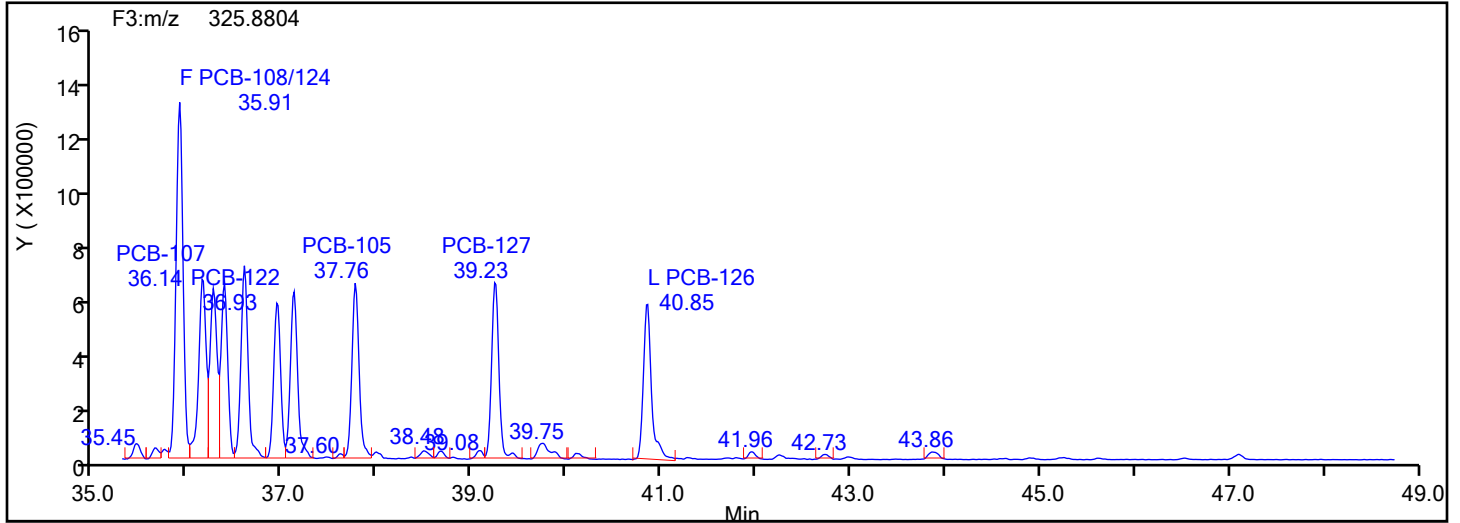
Worklist#: 87130

Sample Line#: 4

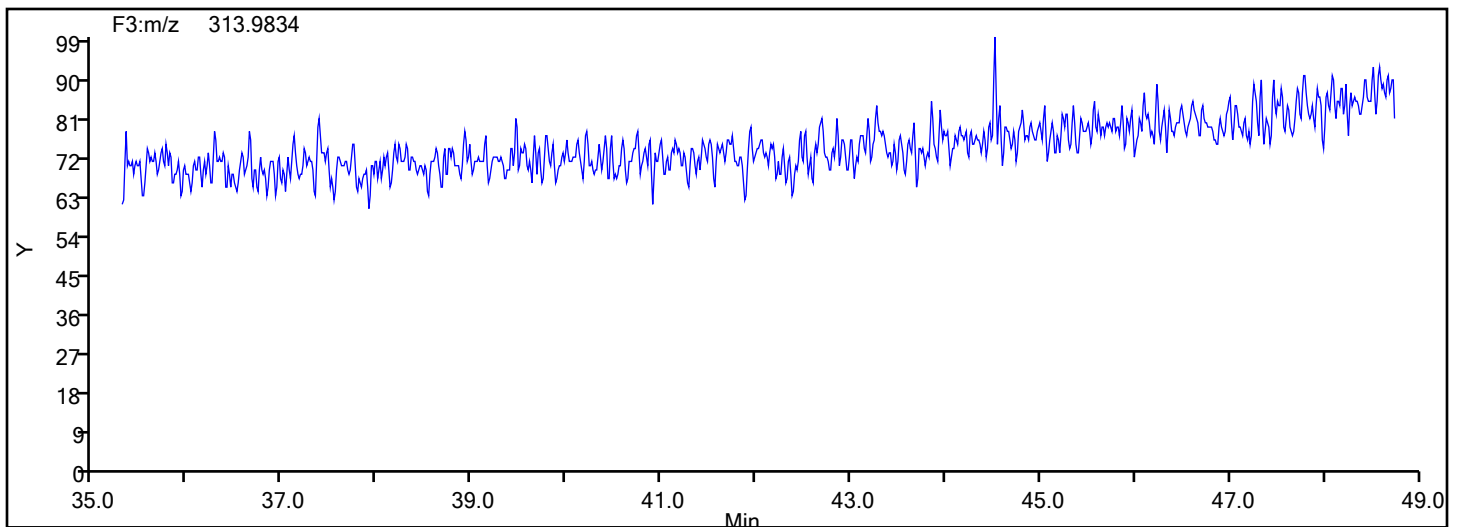
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

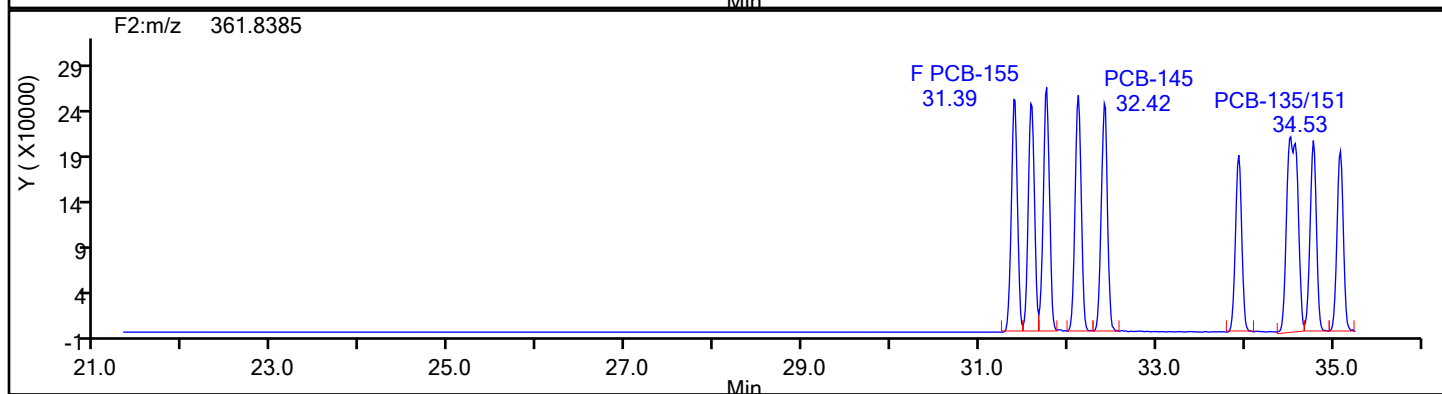
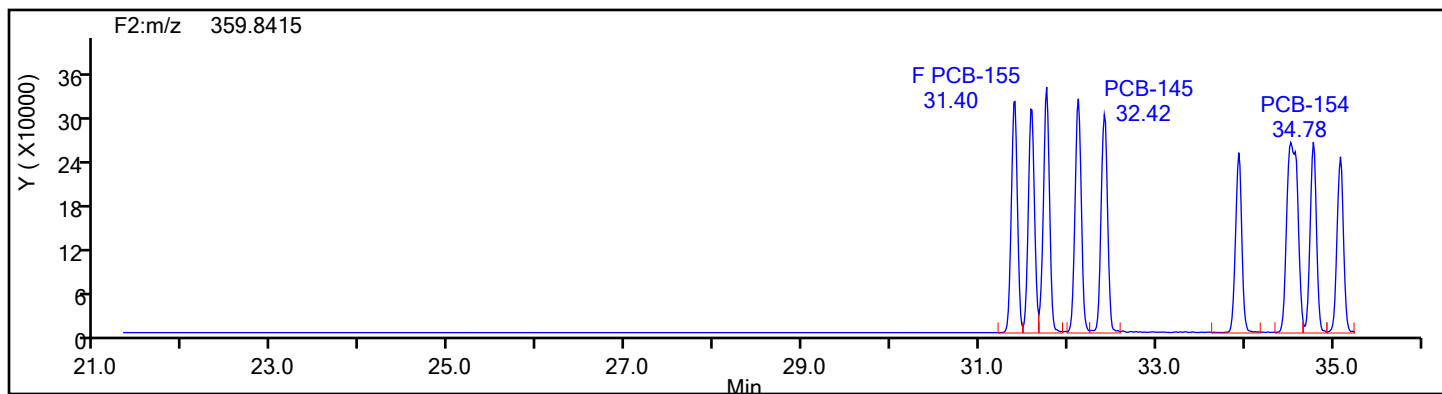


PePCB F3 Lock Mass

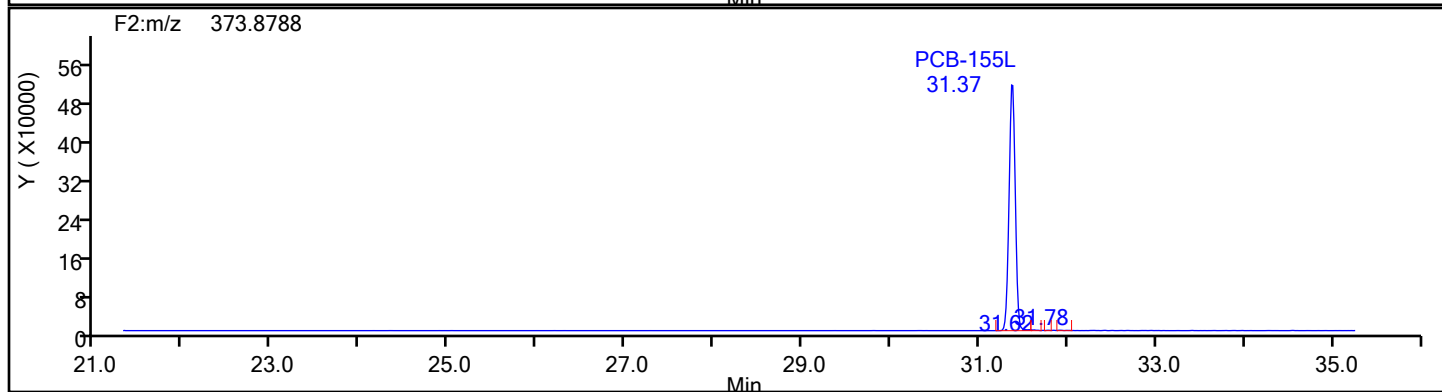
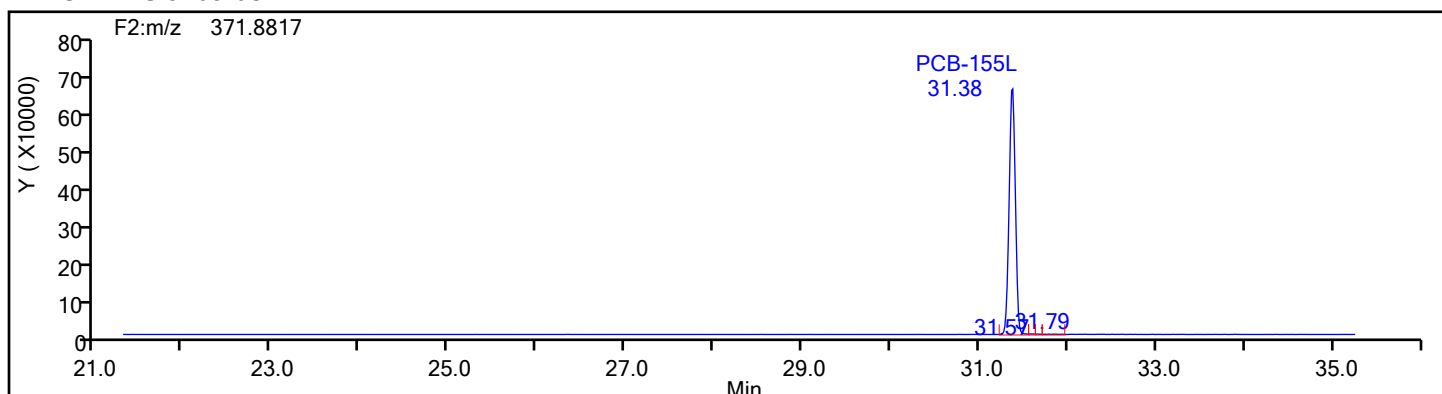


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

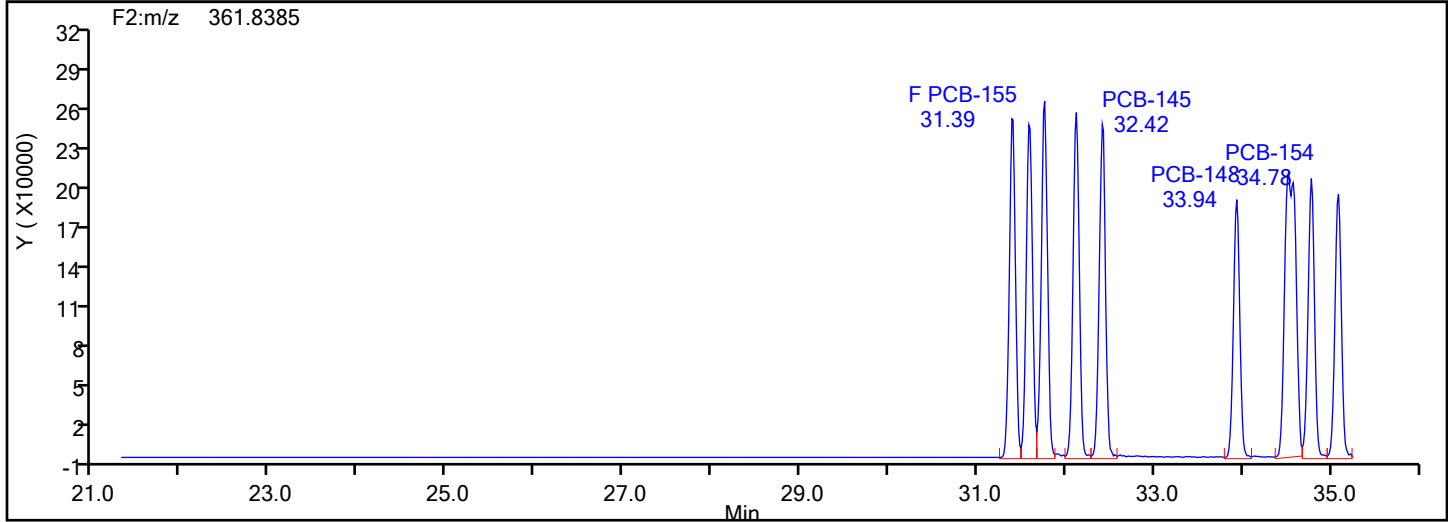
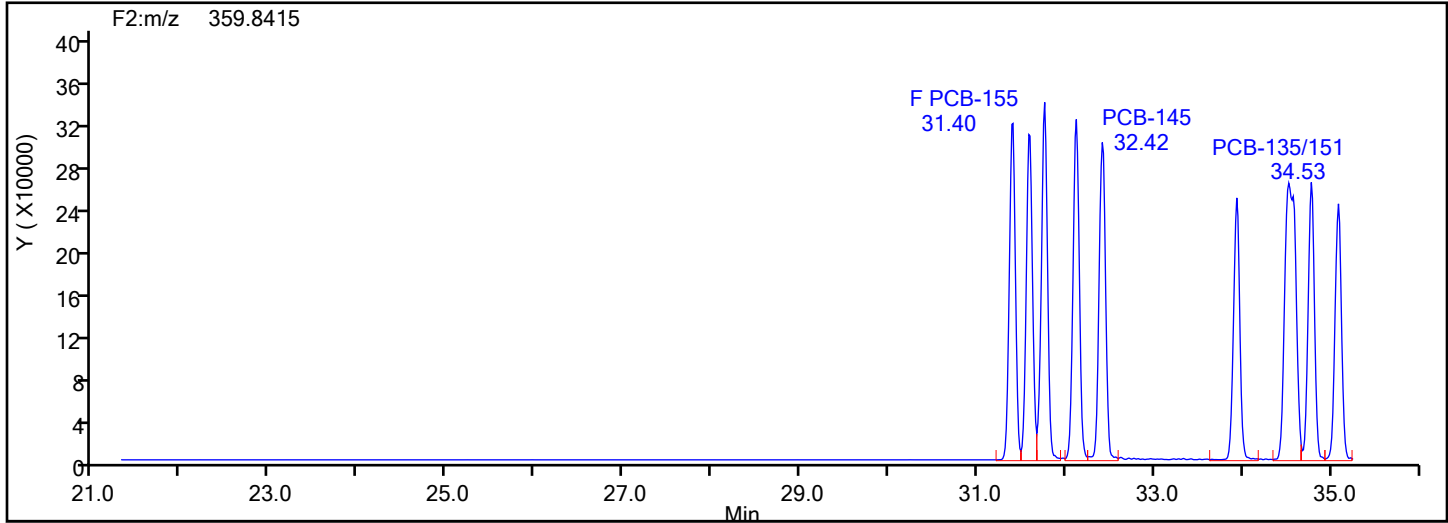


HxPCB F2 Standards

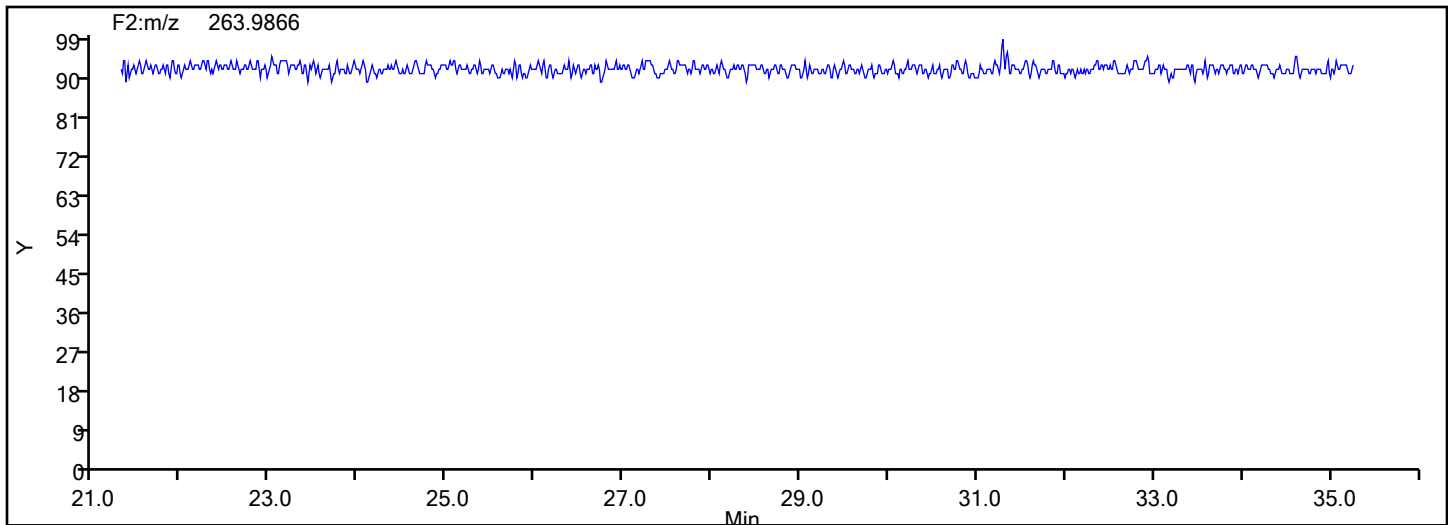


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

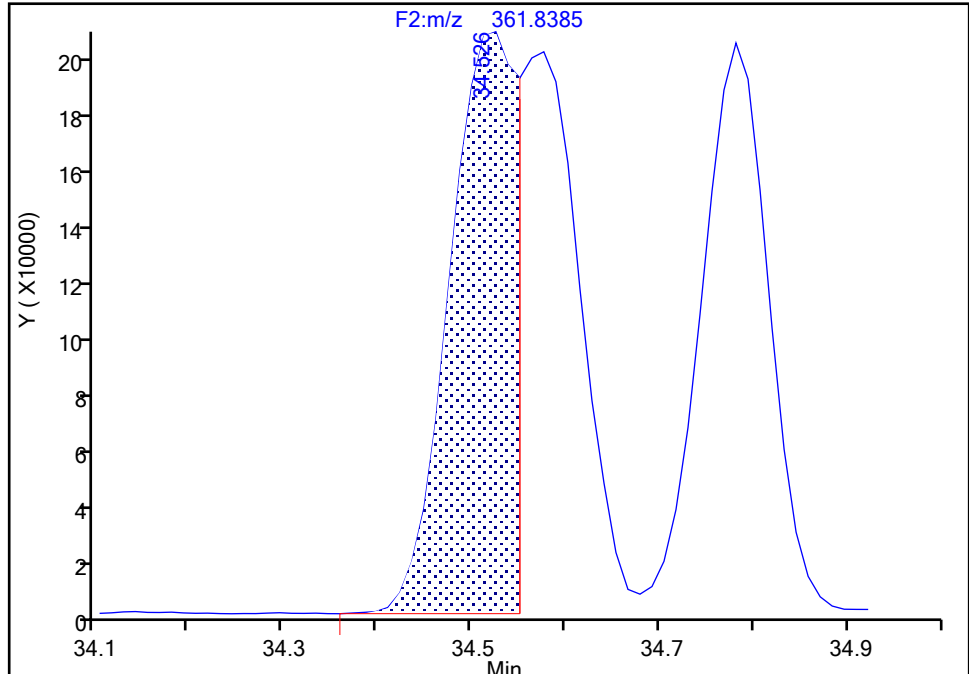
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

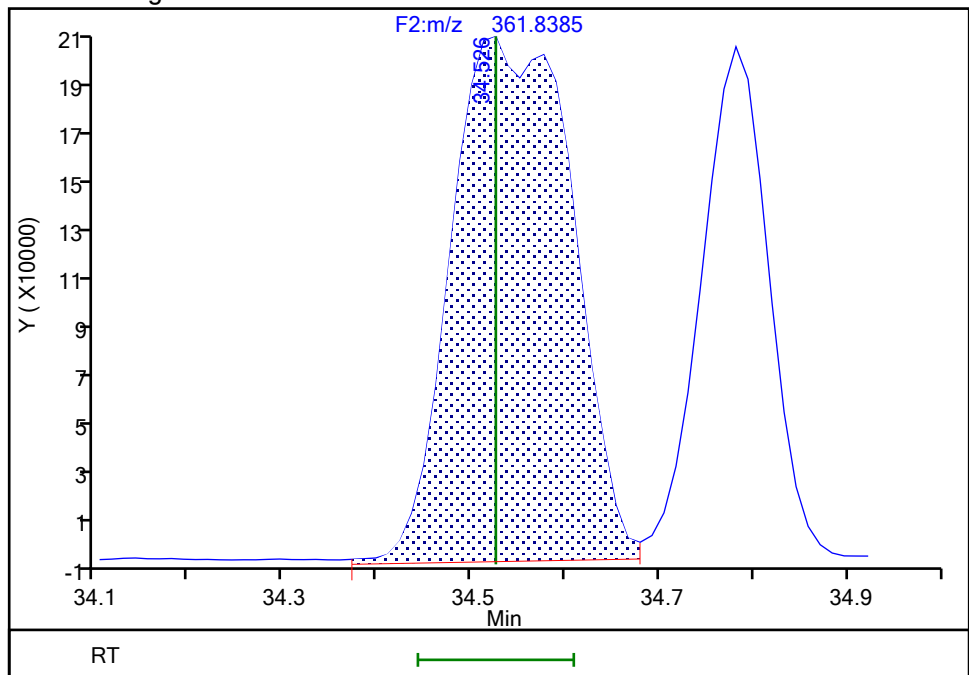
RT: 34.53
Area: 1006492
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 1875309
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

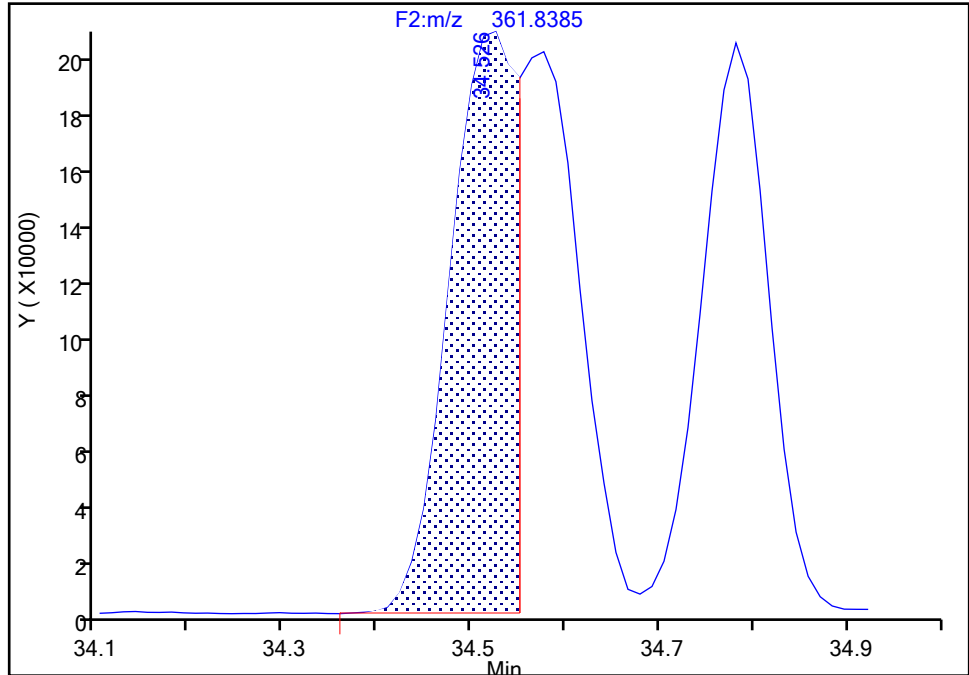
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

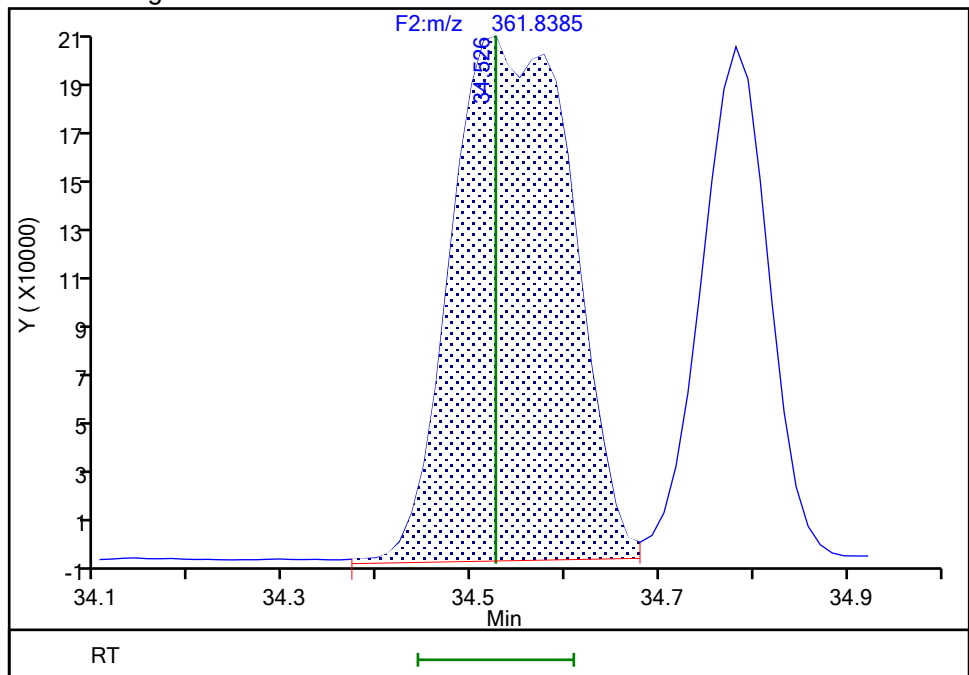
RT: 34.53
Area: 1006492
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 1875309
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2094 of 3050

BASFHWC-McIntosh-010095

9/6/2024

4:11:20 PM

Eurofins Knoxville

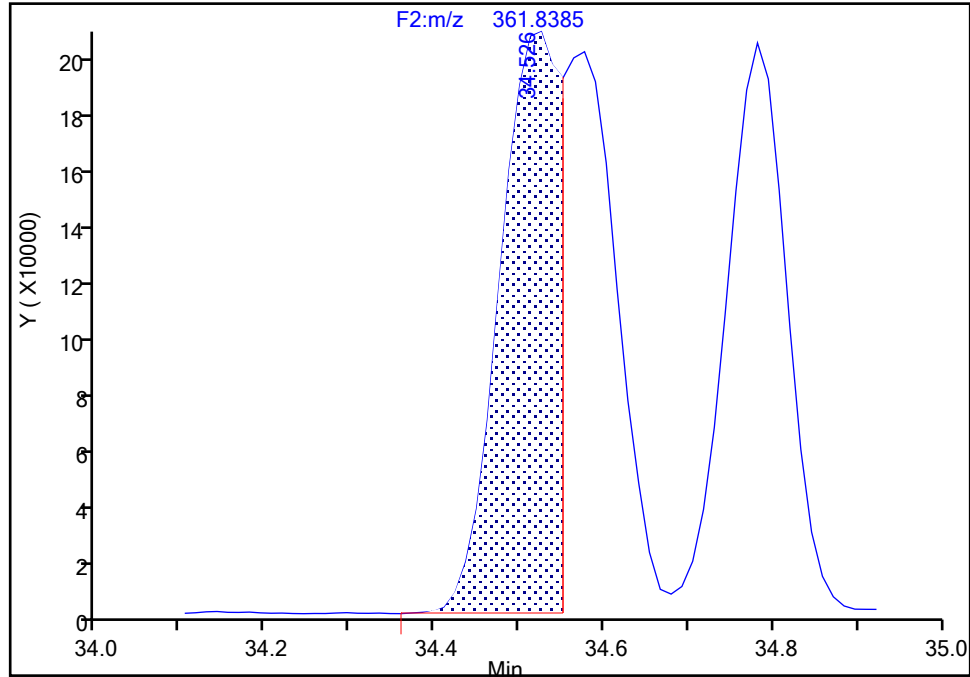
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 3

RT: 34.53
Area: 3323365
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 34.53
Area: 4192182
Amount: 99.842500
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

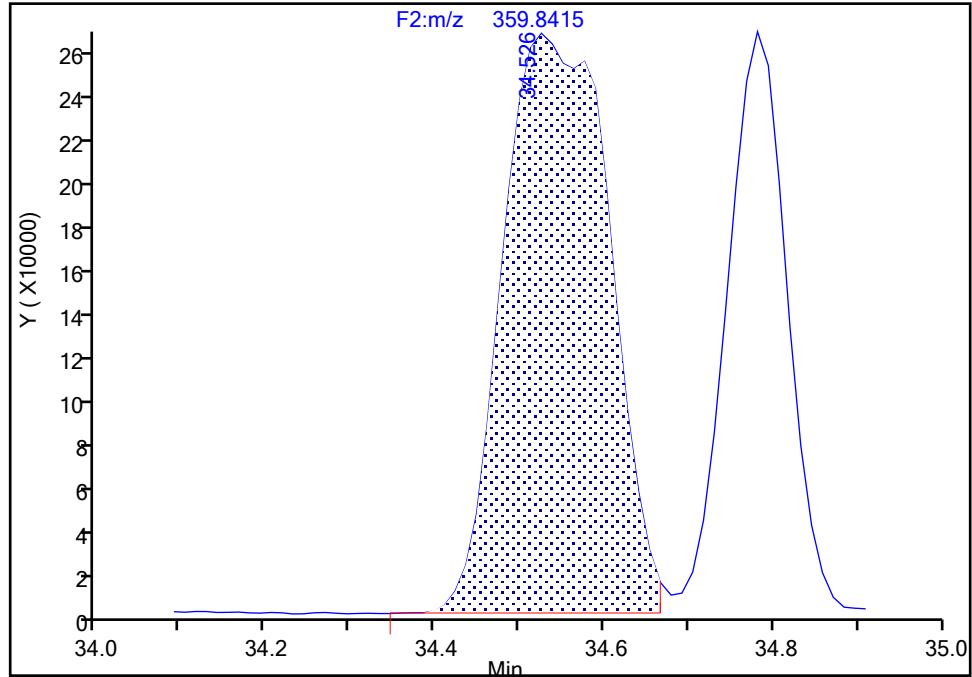
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

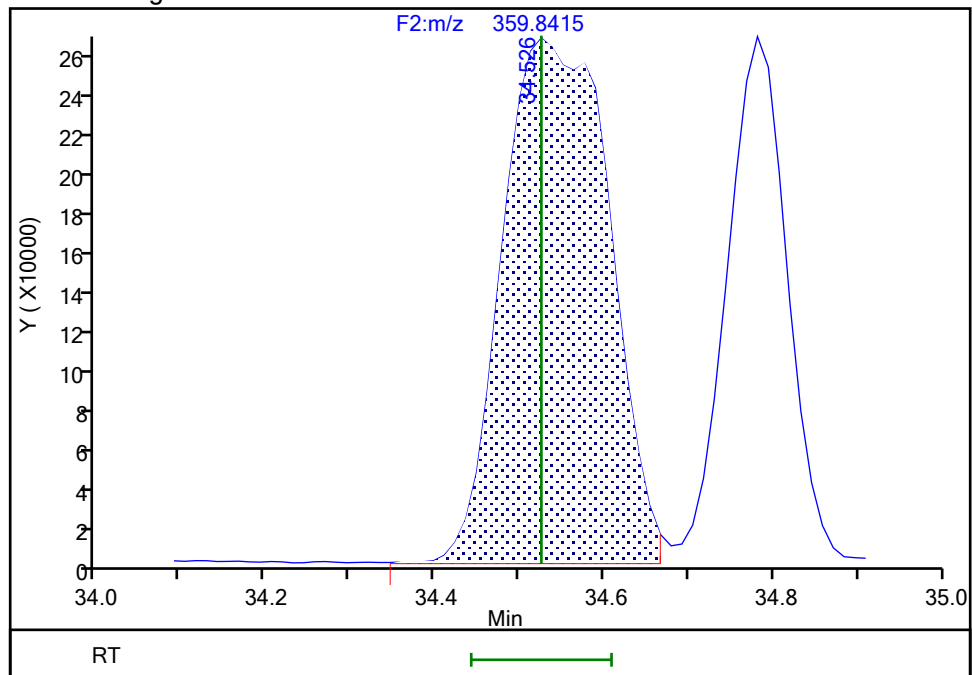
RT: 34.53
Area: 2316873
Amount: 89.546723
Amount Units: pg/ul

Processing Integration Results



RT: 34.53
Area: 2316873
Amount: 99.842500
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:19 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

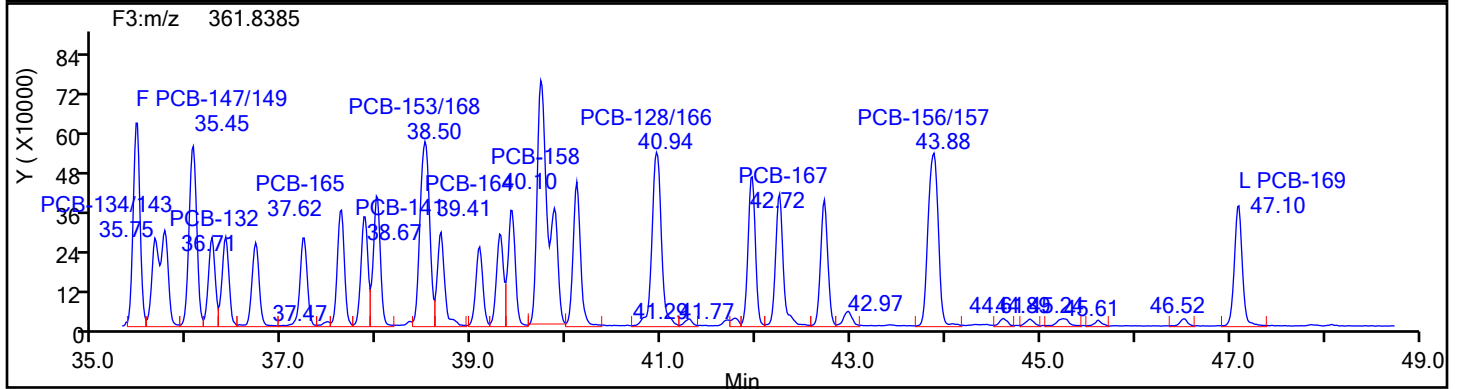
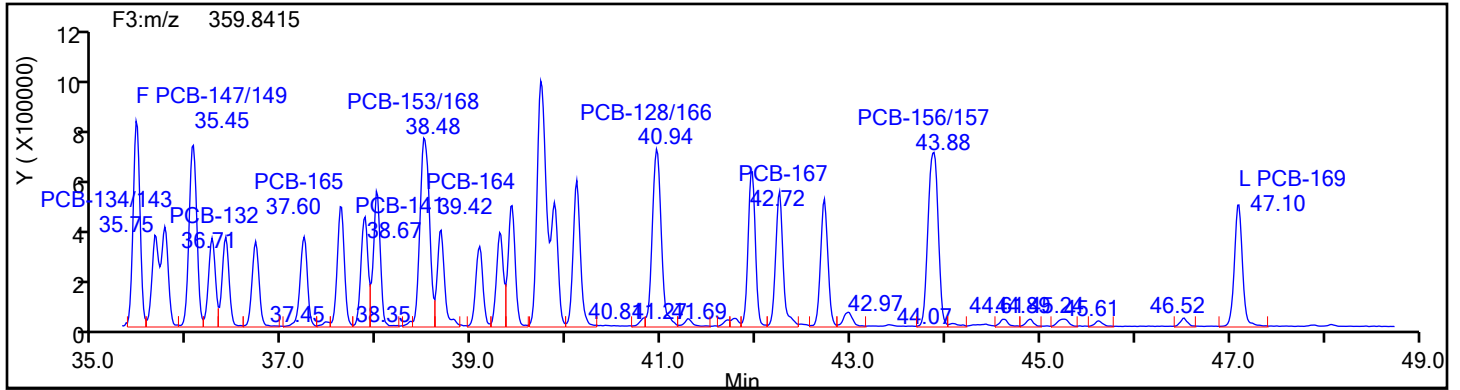
Worklist#: 87130

Sample Line#: 4

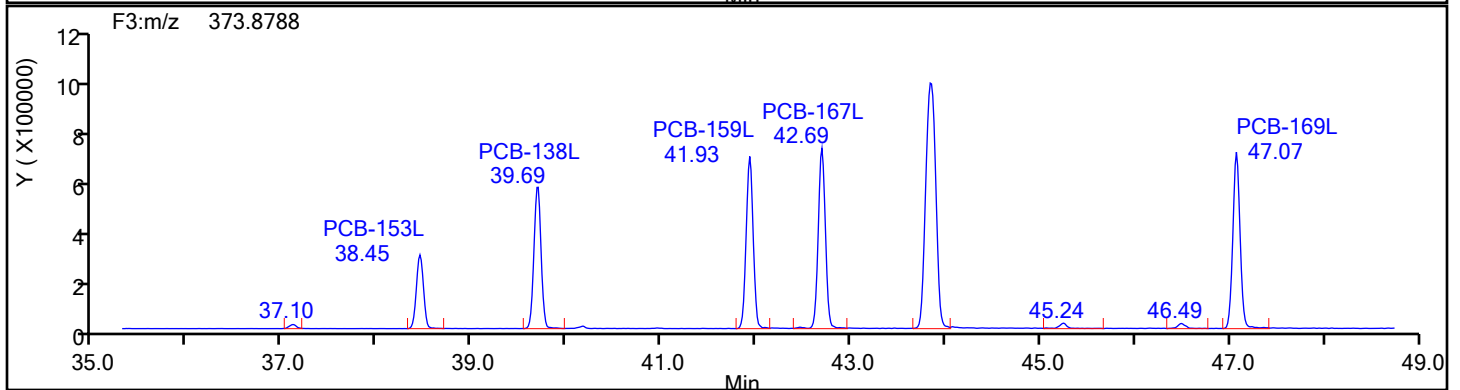
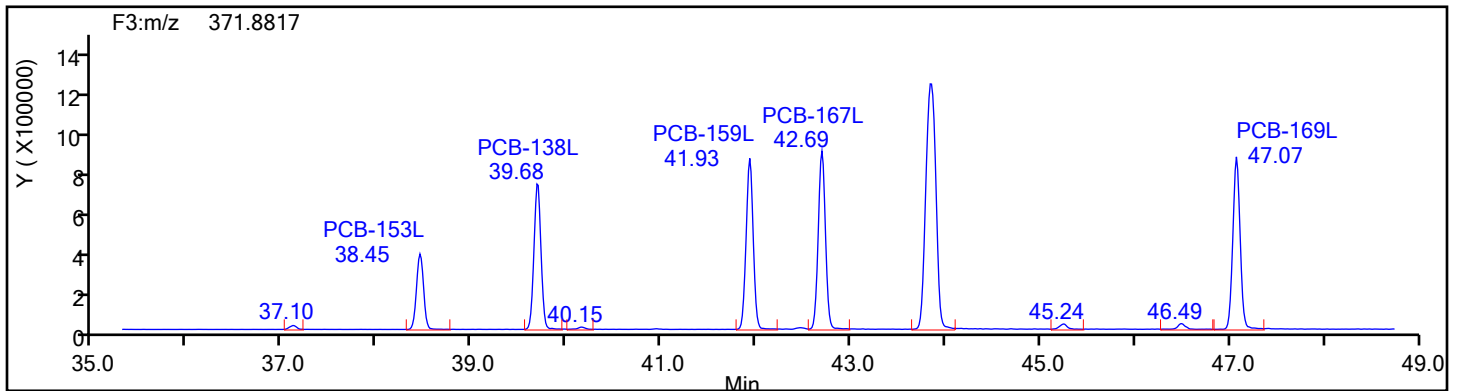
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

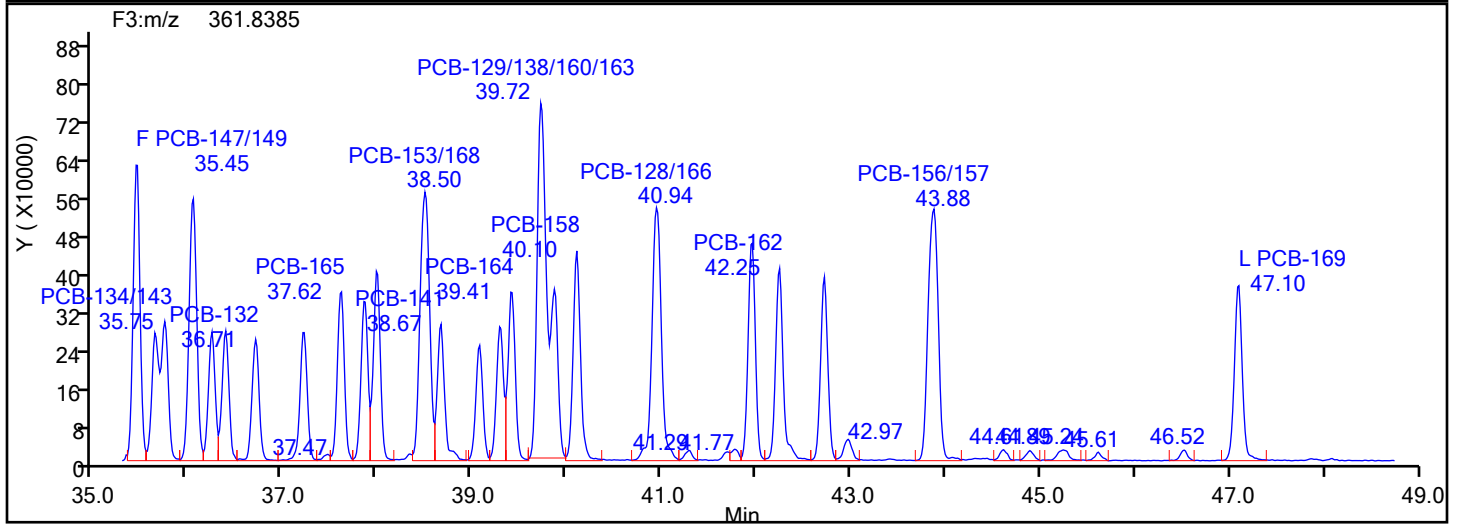
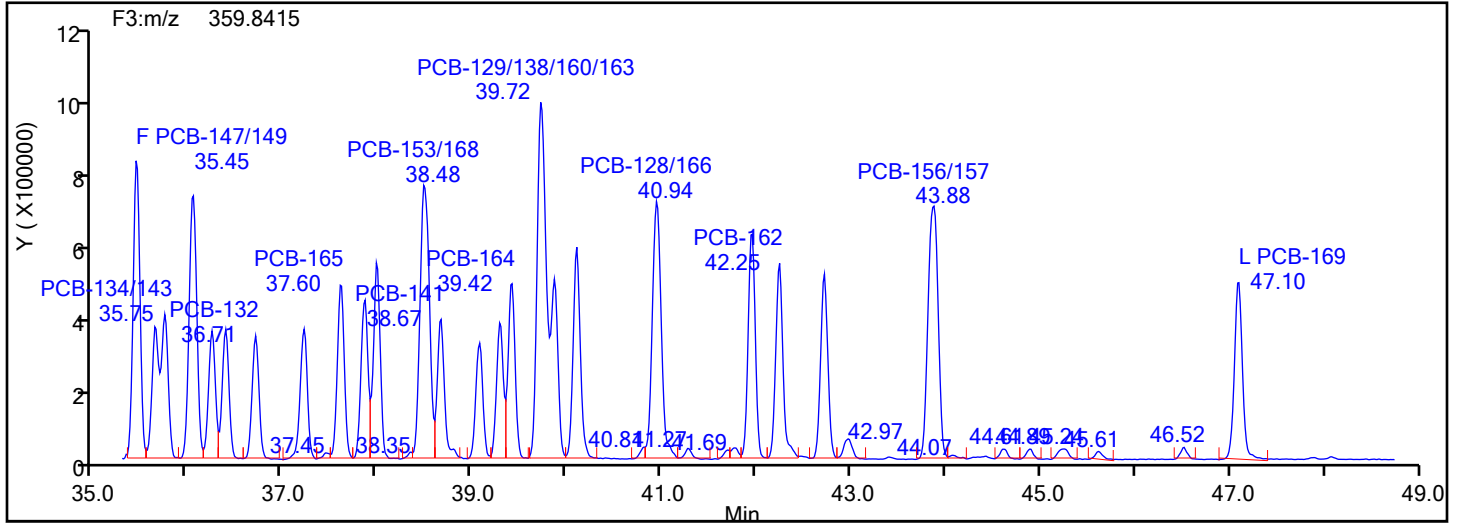
Worklist#: 87130

Sample Line#: 4

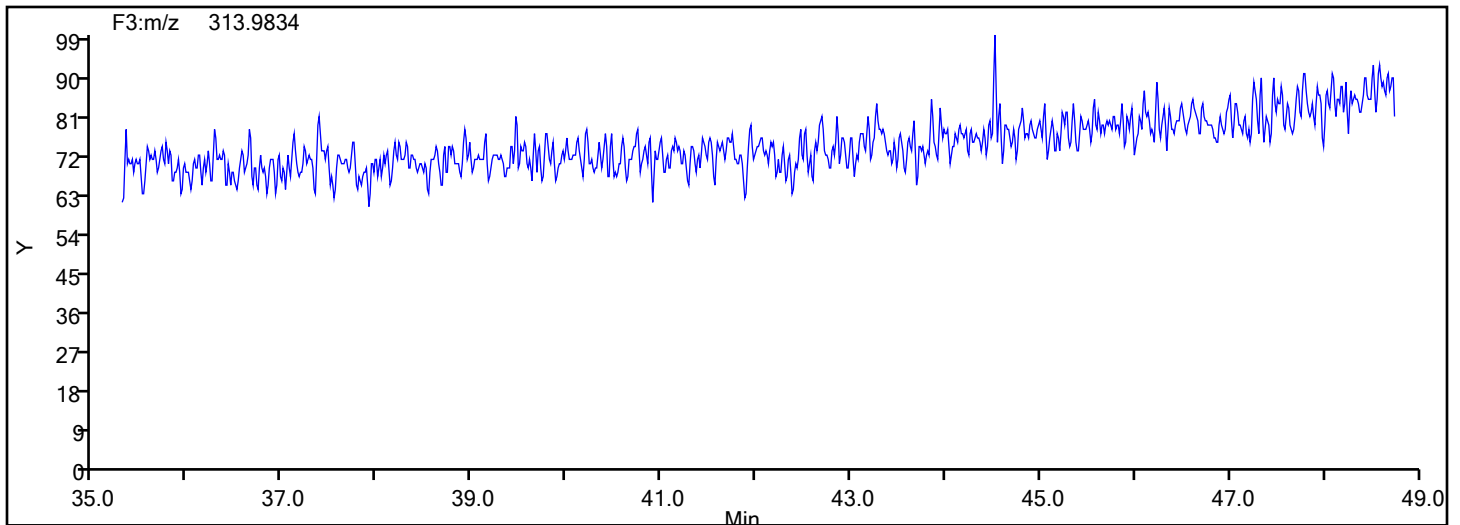
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

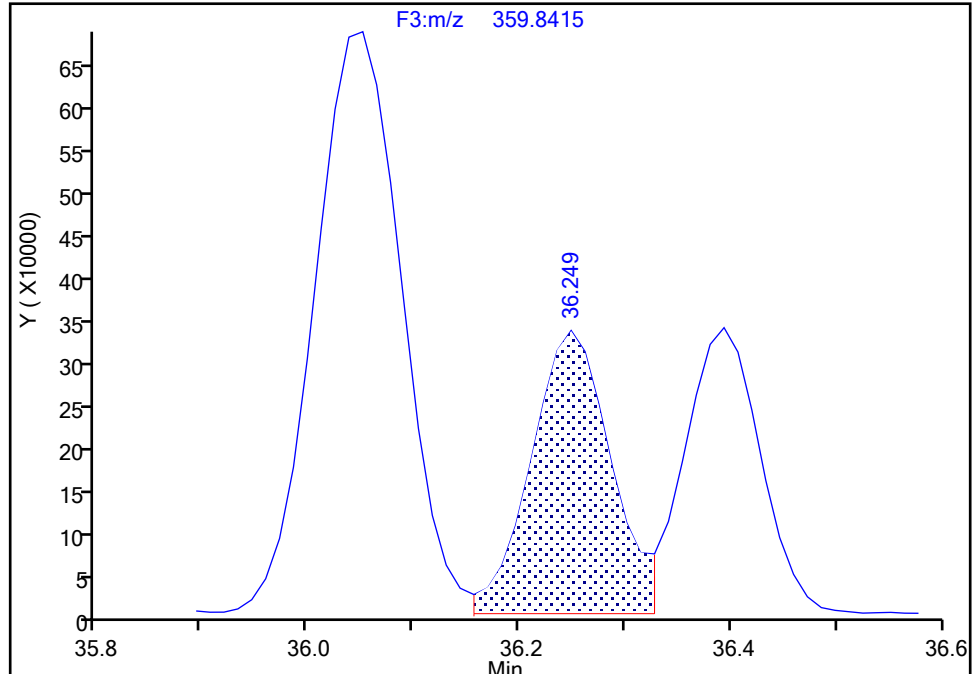
Detector F3(35.64 :49.10)

PCB-131, CAS: 61798-70-7

Signal: 1

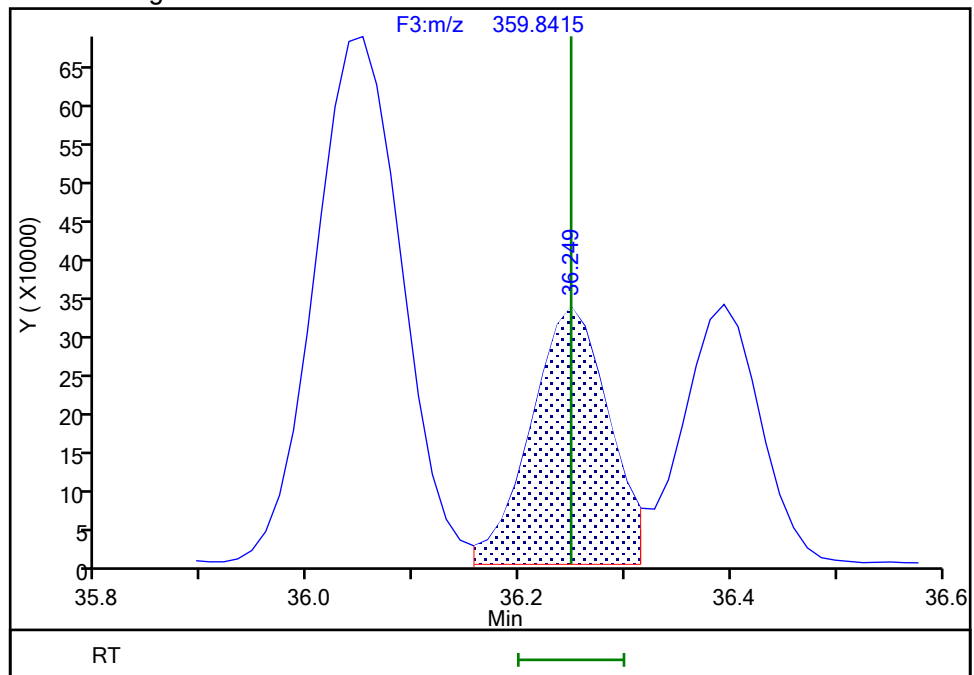
RT: 36.25
Area: 1750783
Amount: 48.362613
Amount Units: pg/ul

Processing Integration Results



RT: 36.25
Area: 1687175
Amount: 49.486092
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

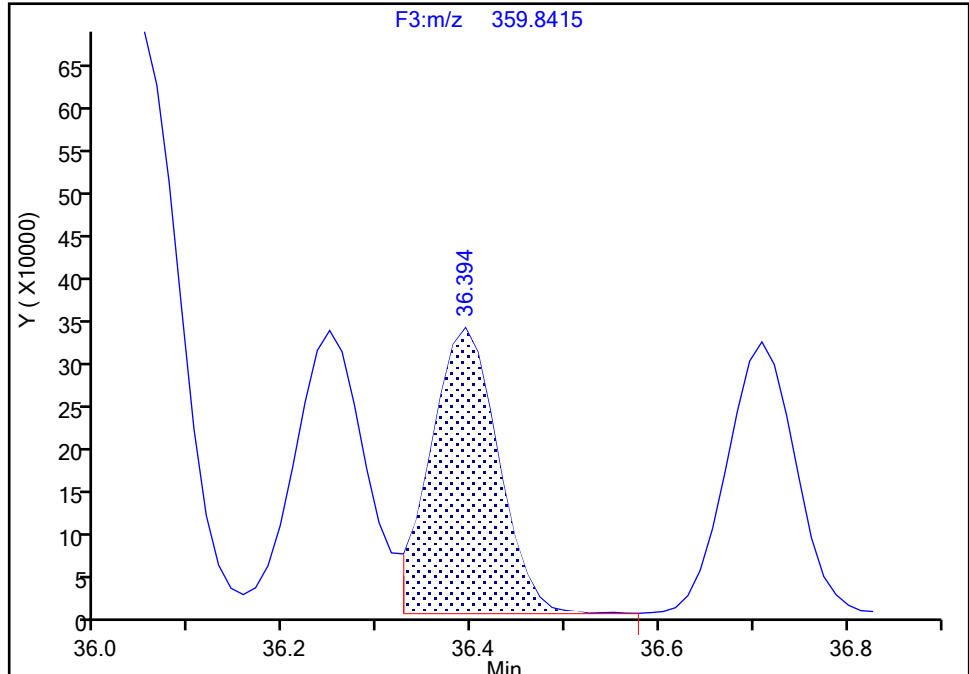
Detector F3(35.64 :49.10)

PCB-142, CAS: 41411-61-4

Signal: 1

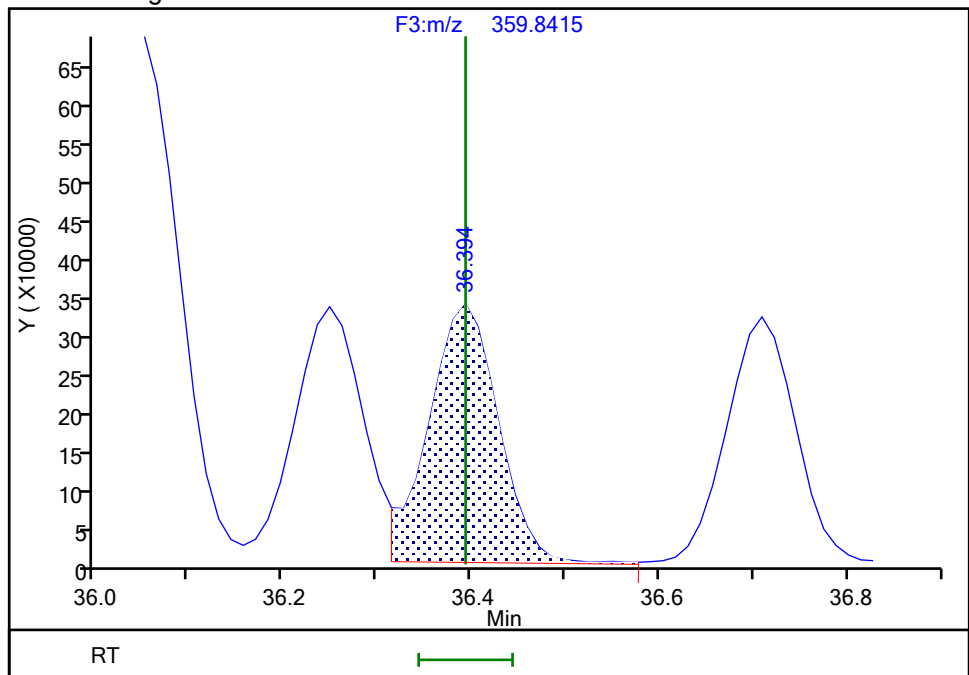
RT: 36.39
Area: 1682262
Amount: 49.938791
Amount Units: pg/ul

Processing Integration Results



RT: 36.39
Area: 1733270
Amount: 51.034948
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

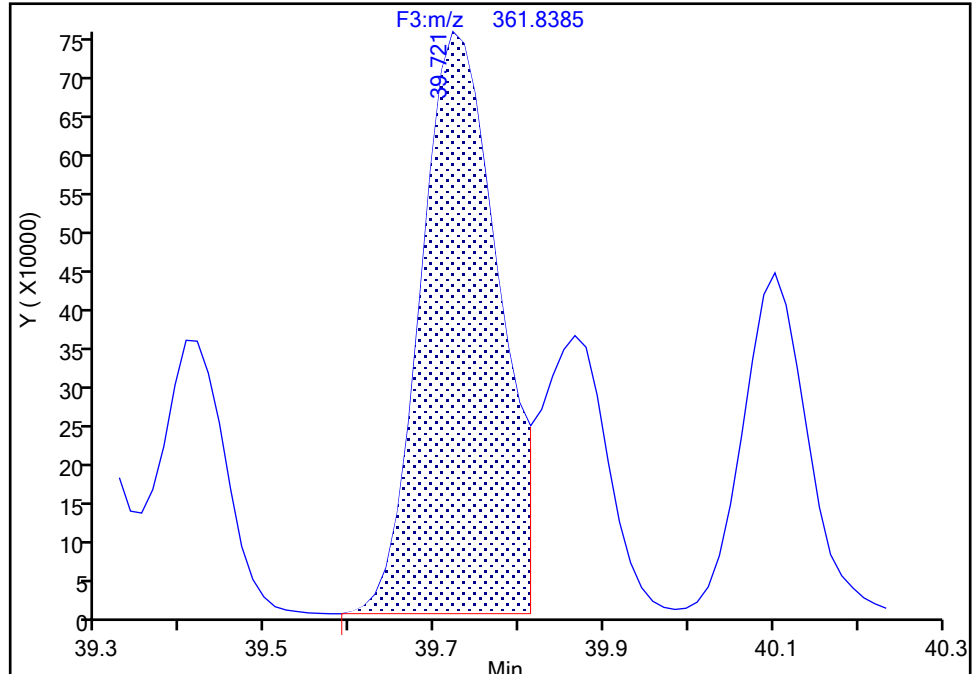
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

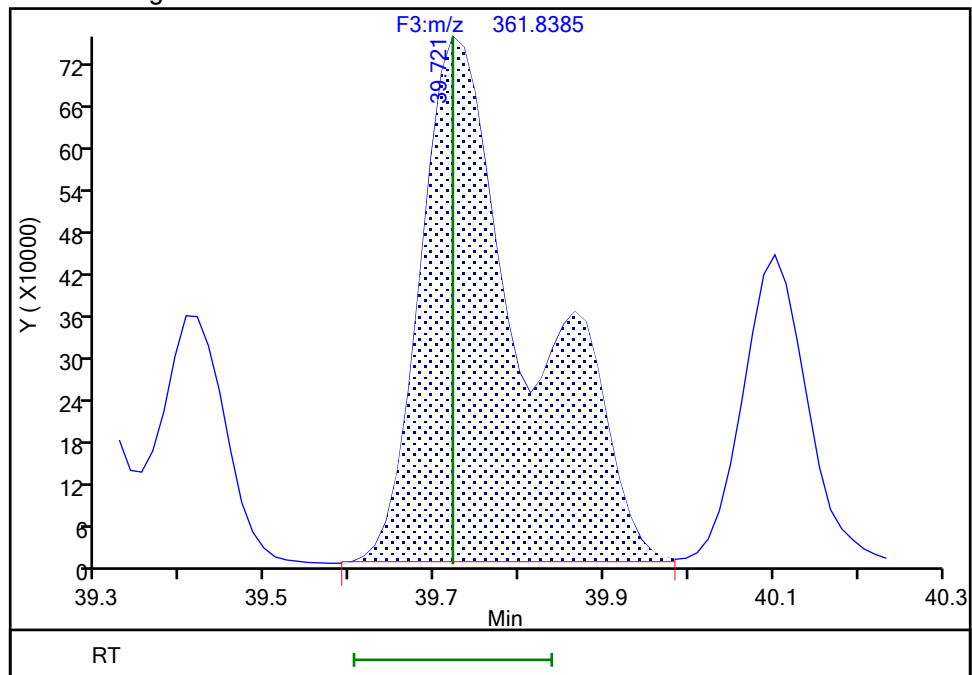
RT: 39.72
Area: 4769883
Amount: 156.8483
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 6682218
Amount: 196.3569
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

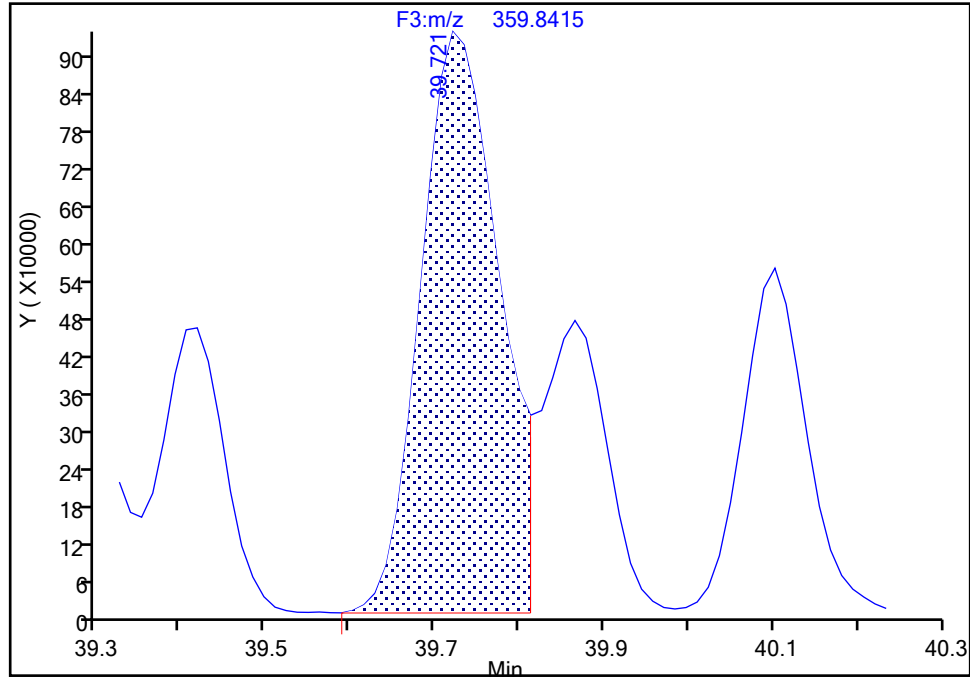
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

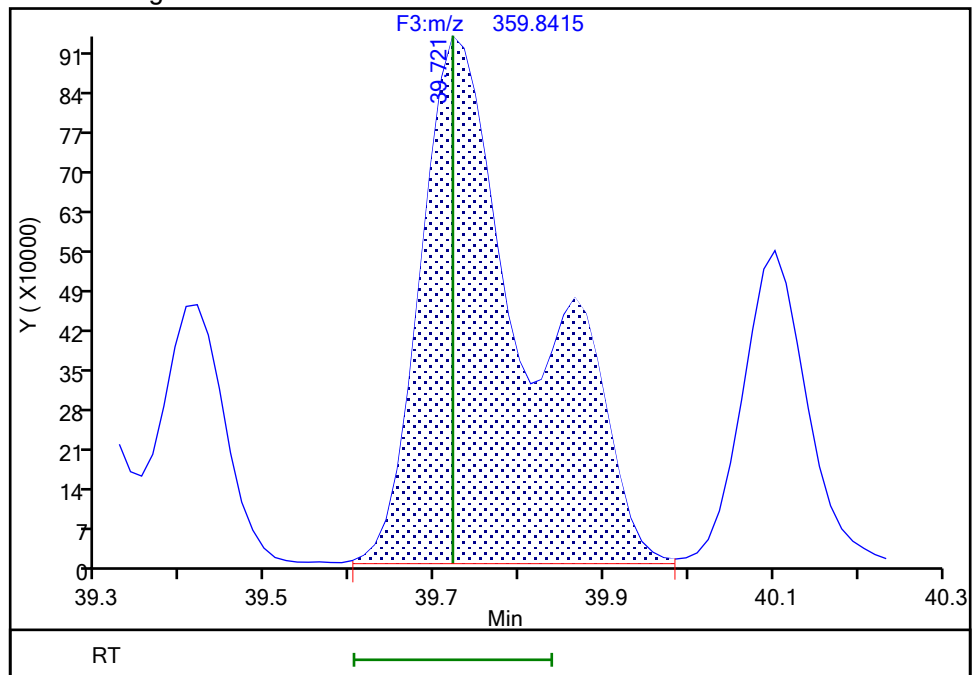
RT: 39.72
Area: 5977025
Amount: 156.8483
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 8427795
Amount: 196.3569
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2102 of 3050

BASFWHC-McIntosh-010103

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

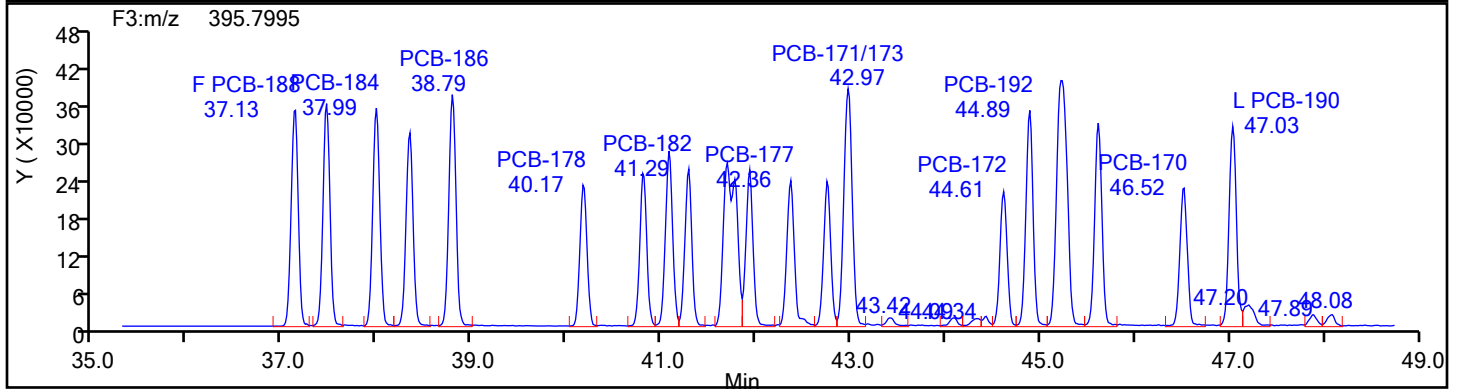
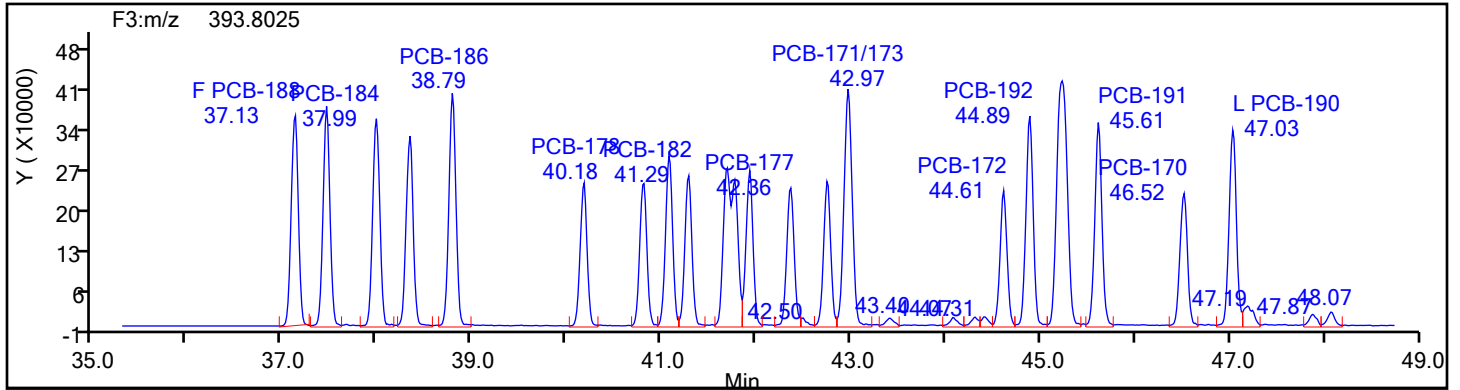
Worklist#: 87130

Sample Line#: 4

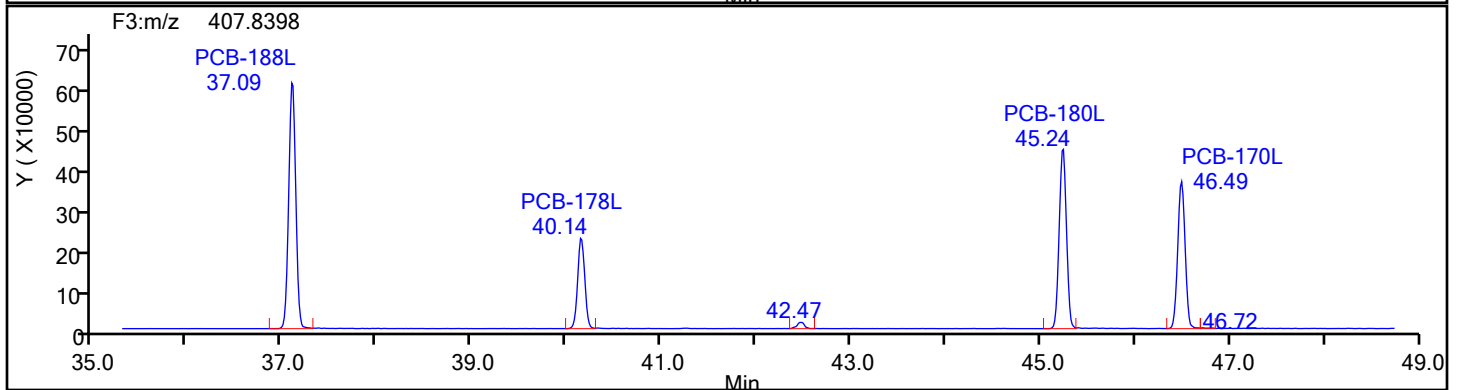
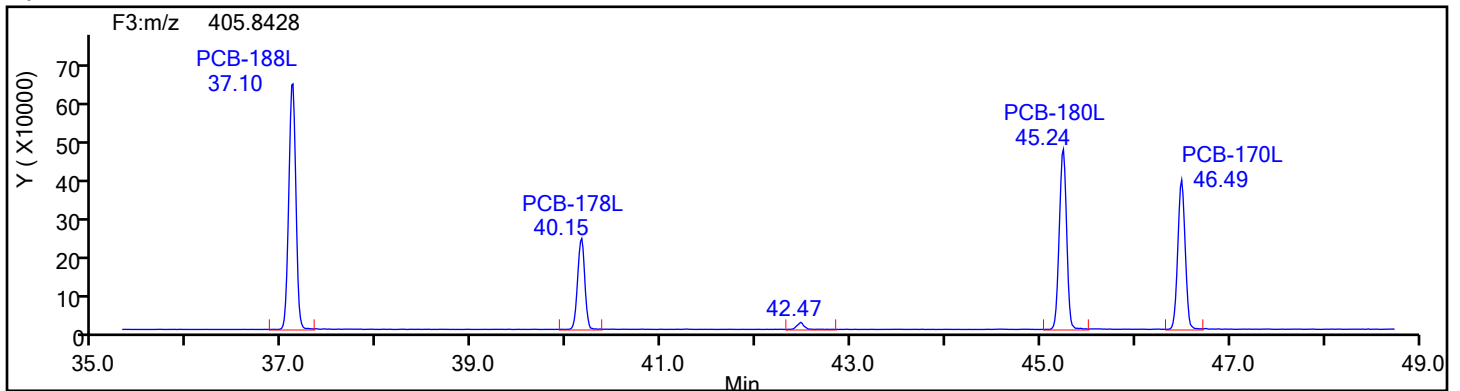
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

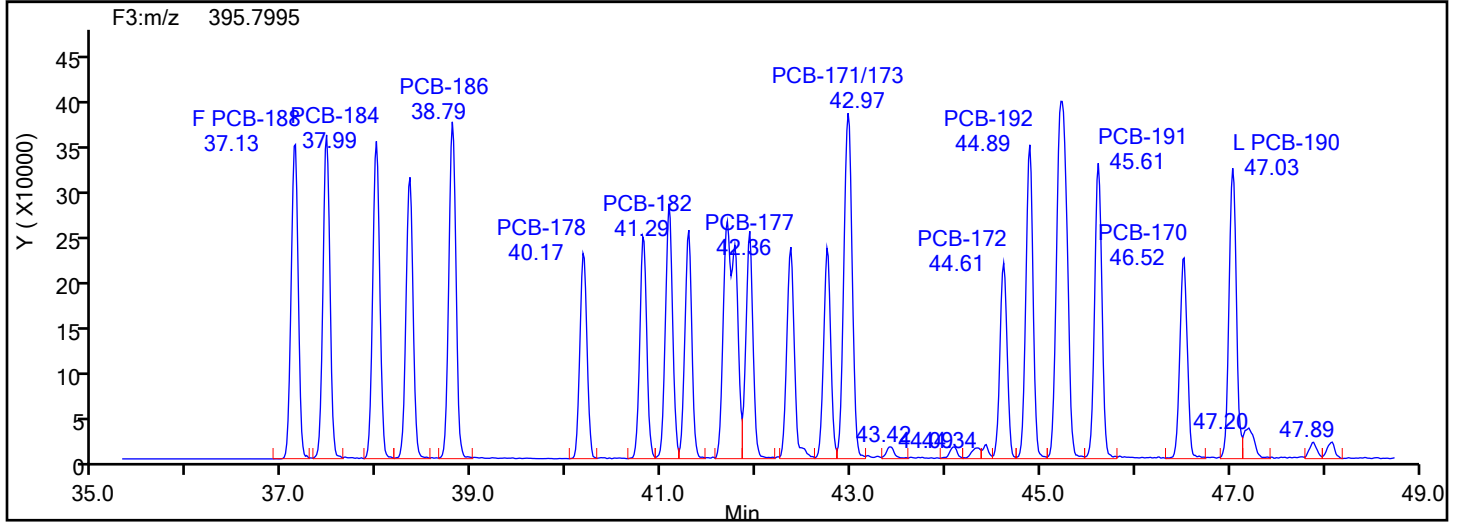
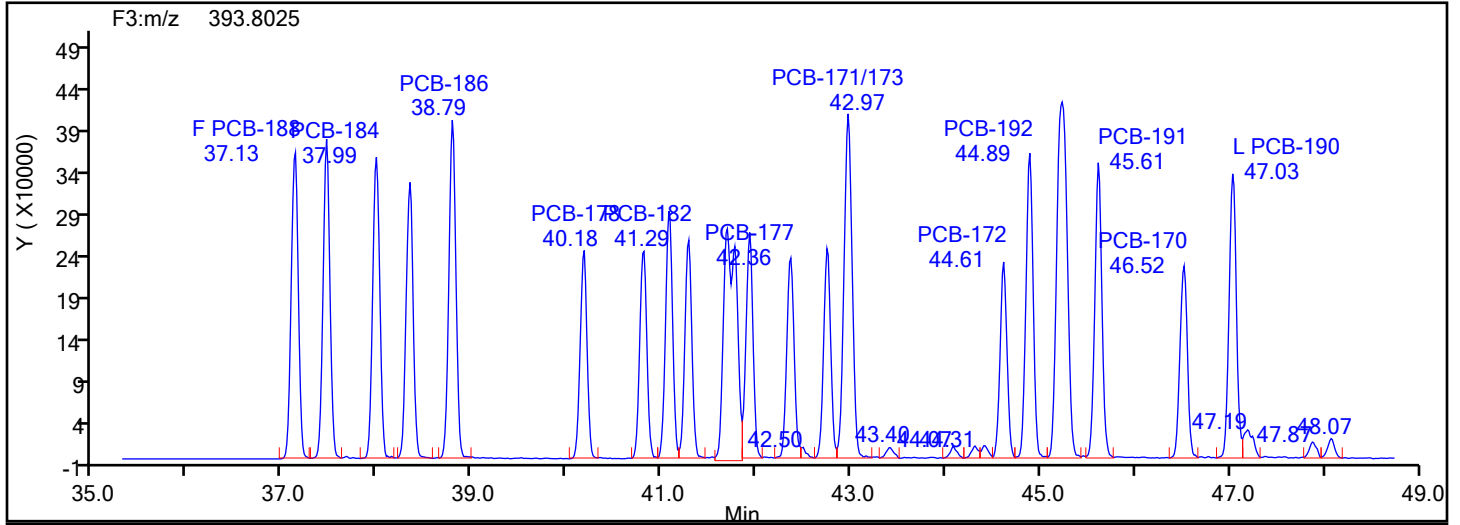
Worklist#: 87130

Sample Line#: 4

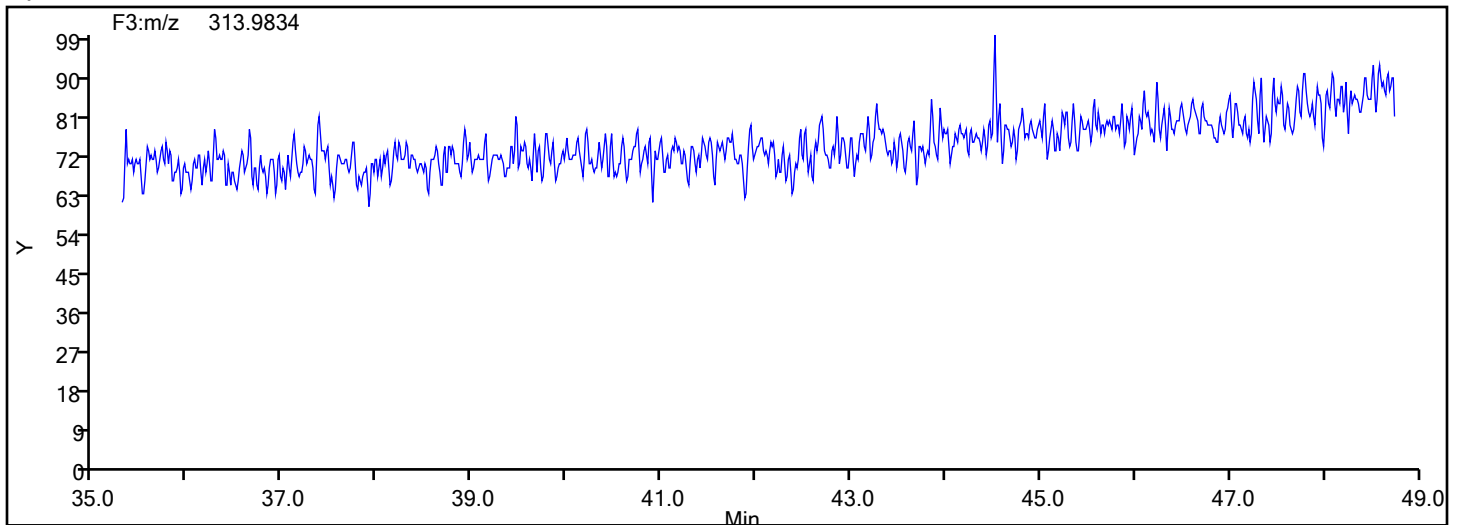
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

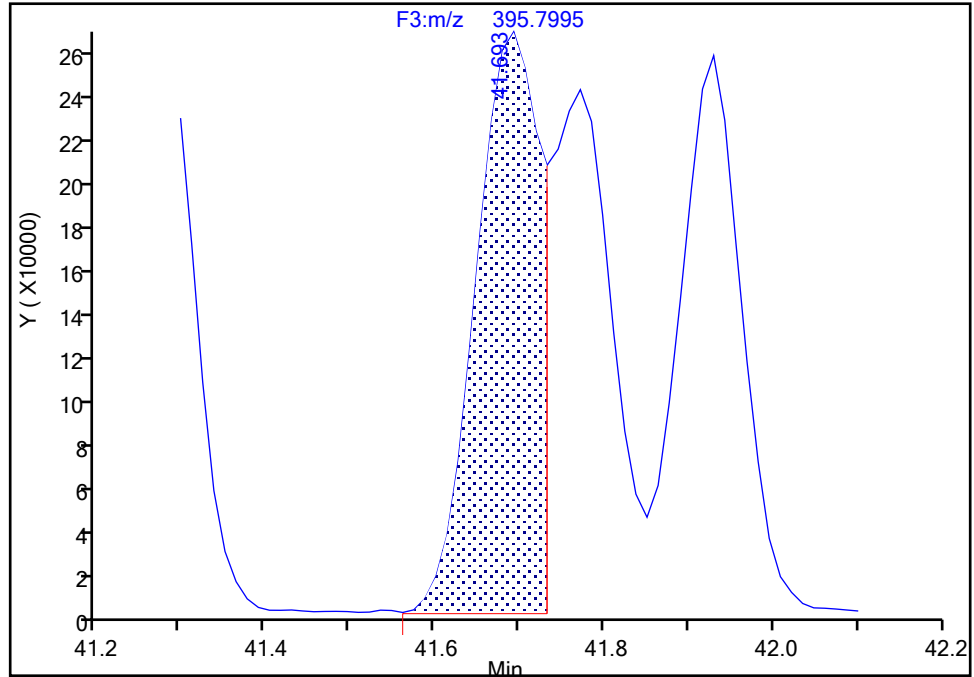
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

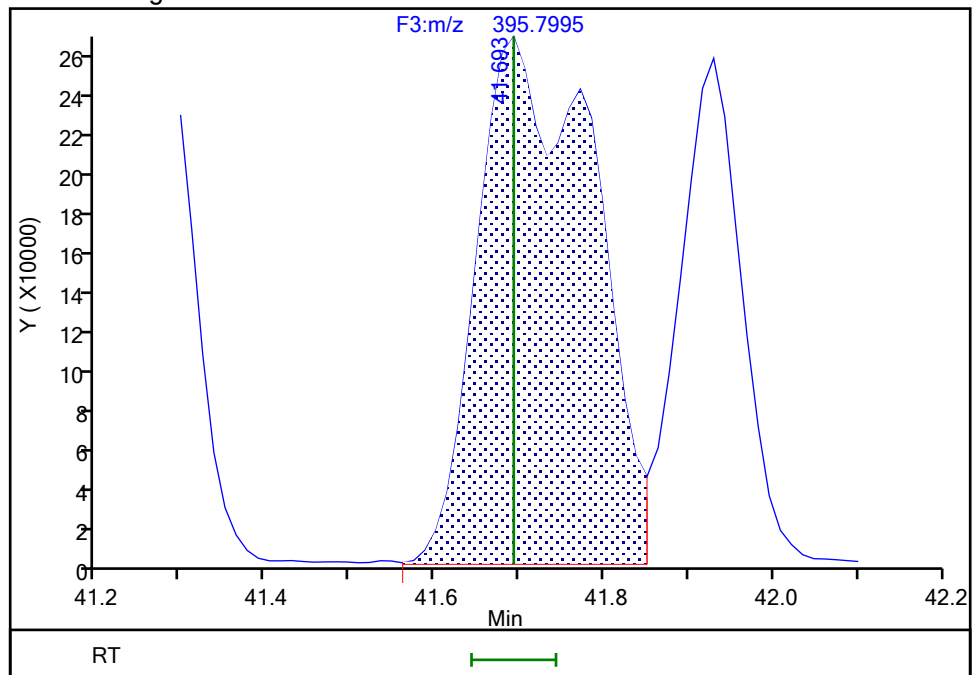
RT: 41.69
Area: 1353022
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2486532
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

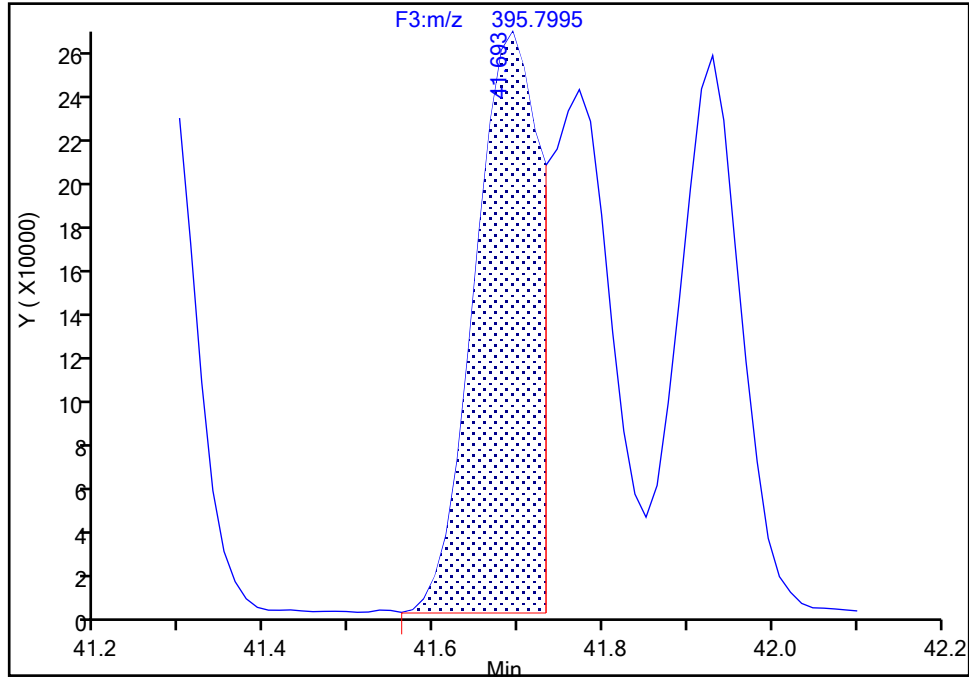
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Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

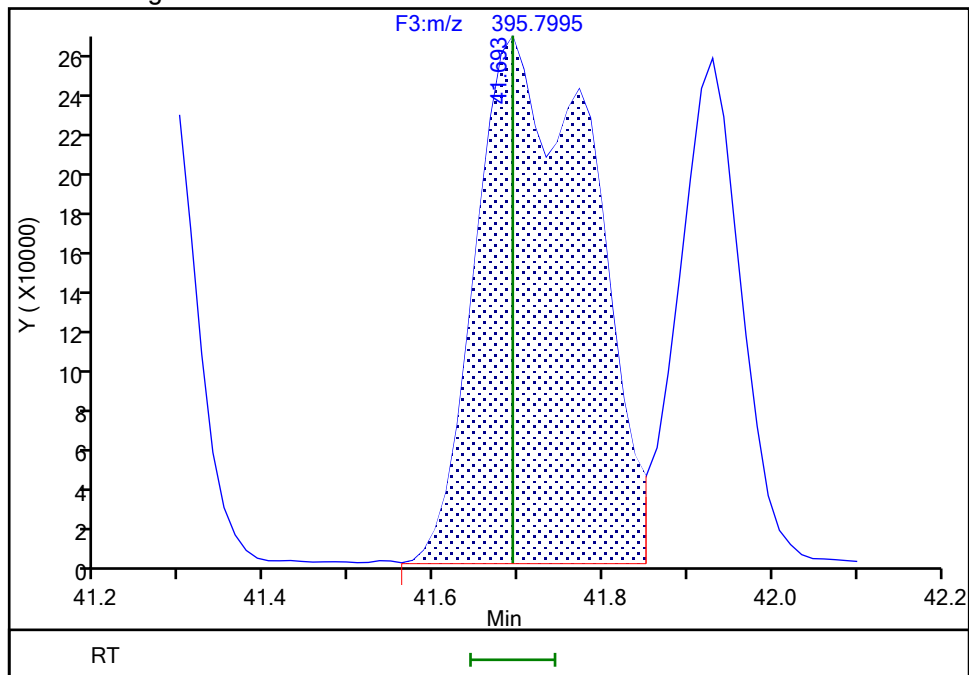
RT: 41.69
Area: 1353022
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2486532
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2106 of 3050

BASFWC-McIntosh-010107

9/6/2024

4:11:20 PM

Eurofins Knoxville

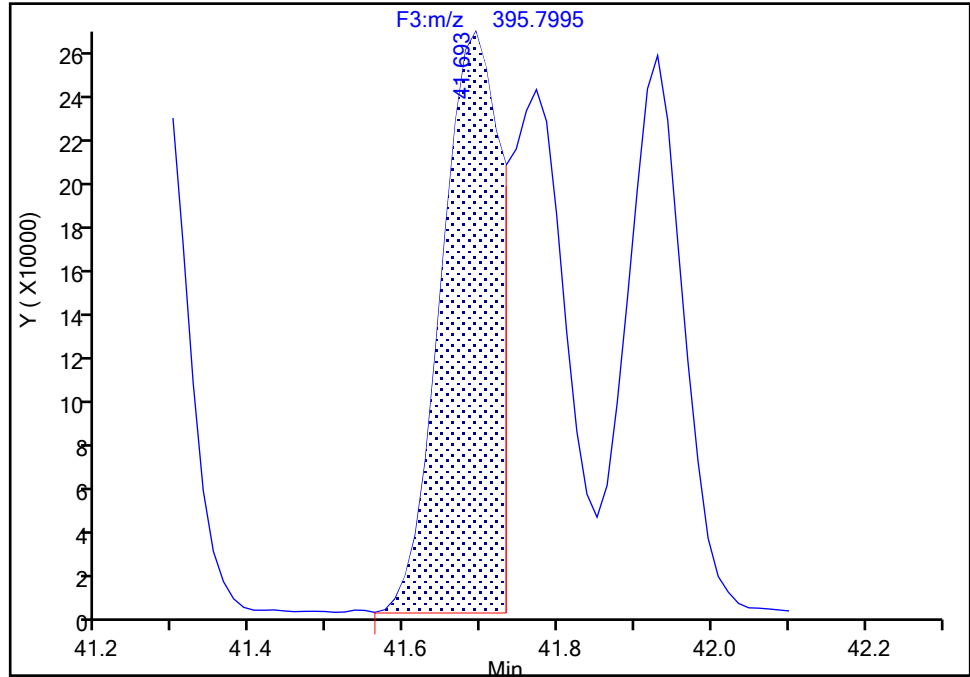
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 2755275
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 5114533
Amount: 96.902129
Amount Units: pg/ul
Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Knoxville

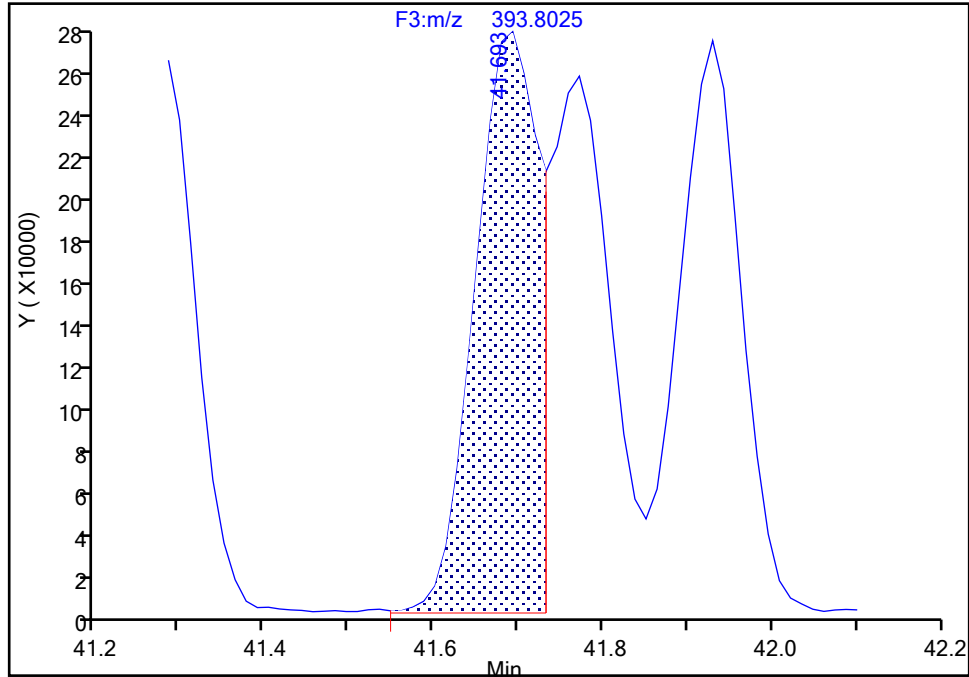
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

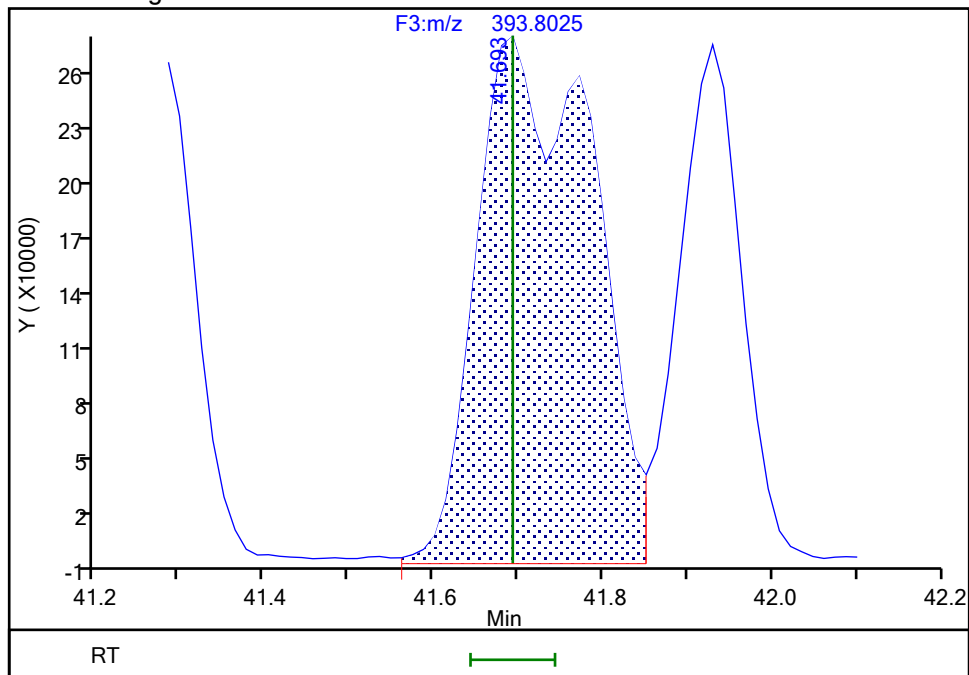
RT: 41.69
Area: 1402253
Amount: 58.163319
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 2628001
Amount: 96.902129
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:26 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 2108 of 3050

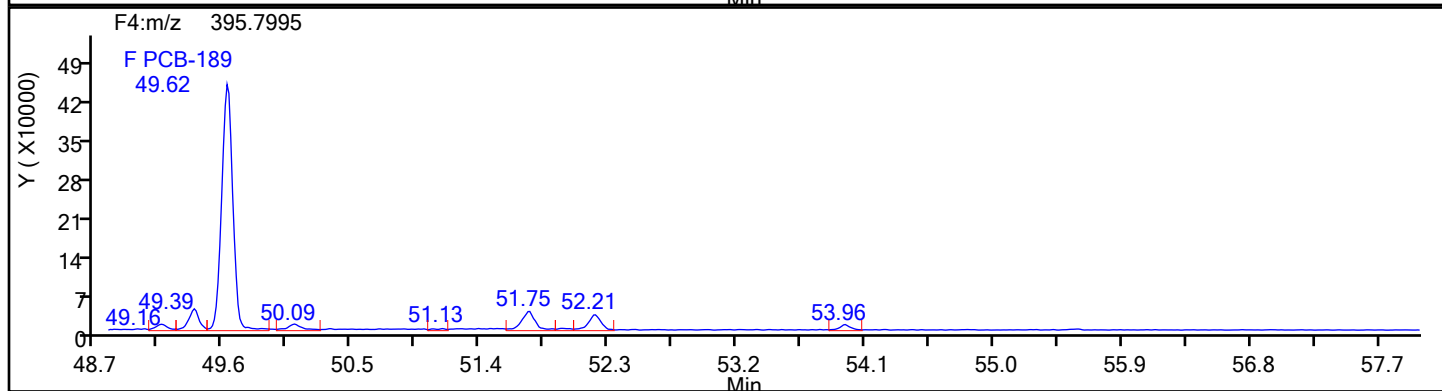
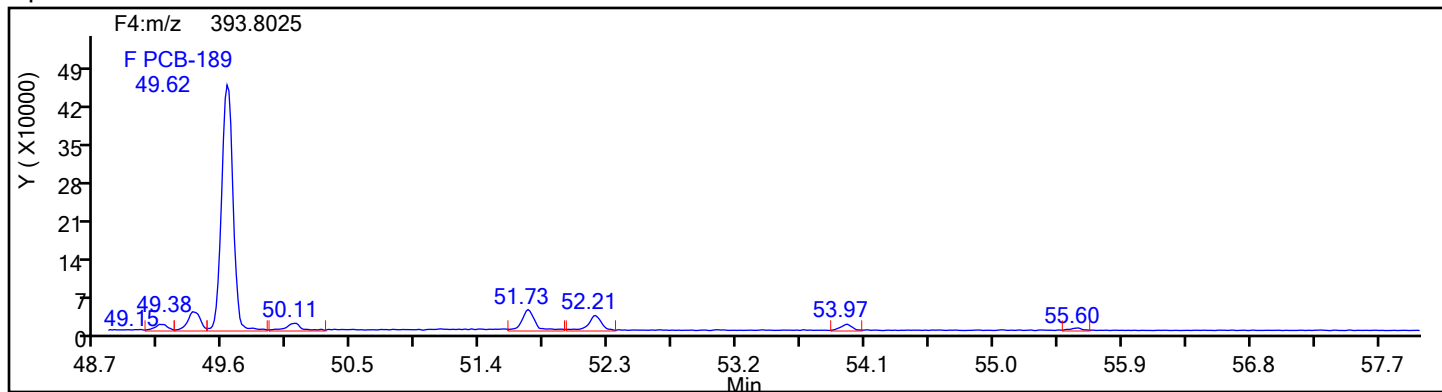
BASFWC-McIntosh-010109

9/6/2024

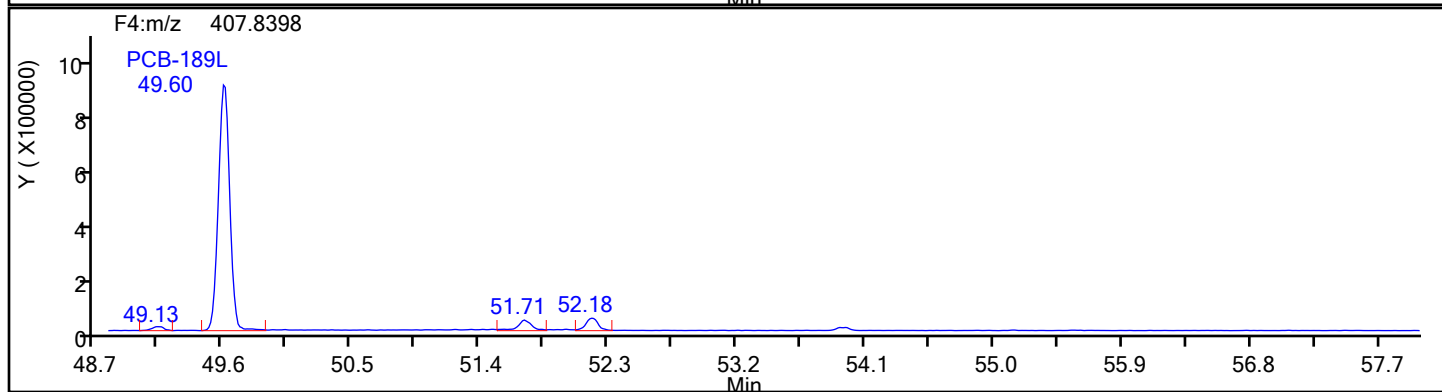
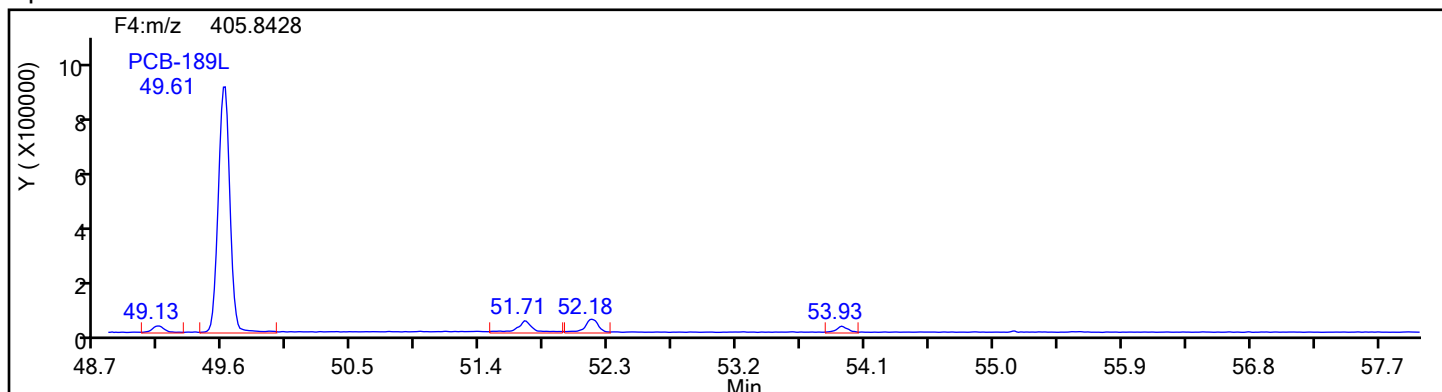
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

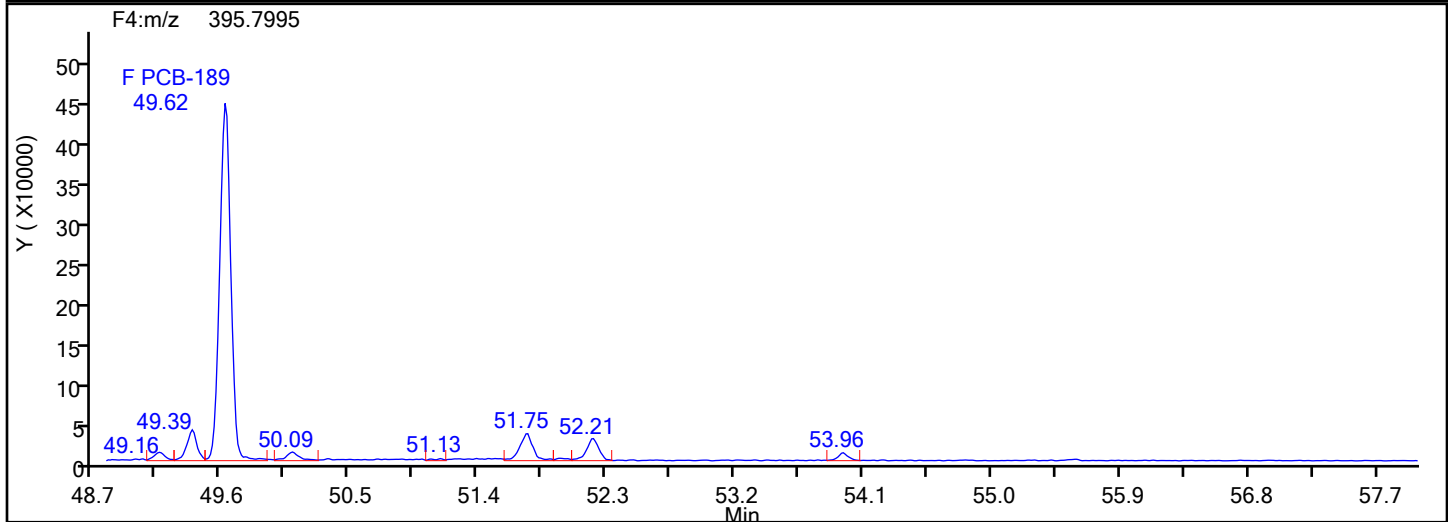
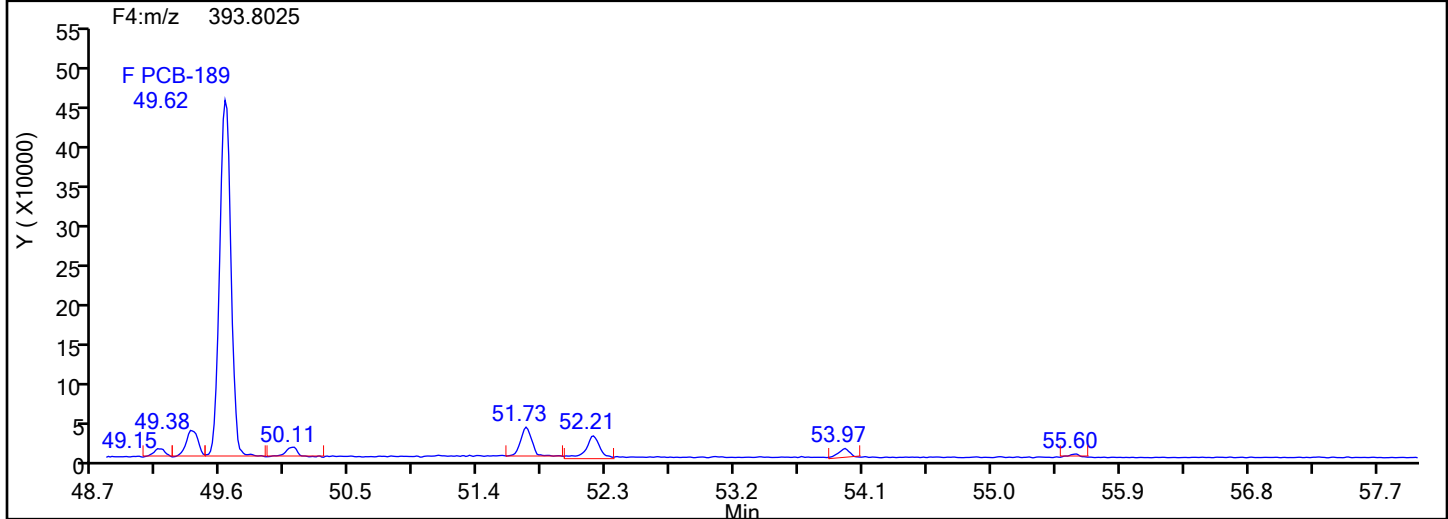
Worklist#: 87130

Sample Line#: 4

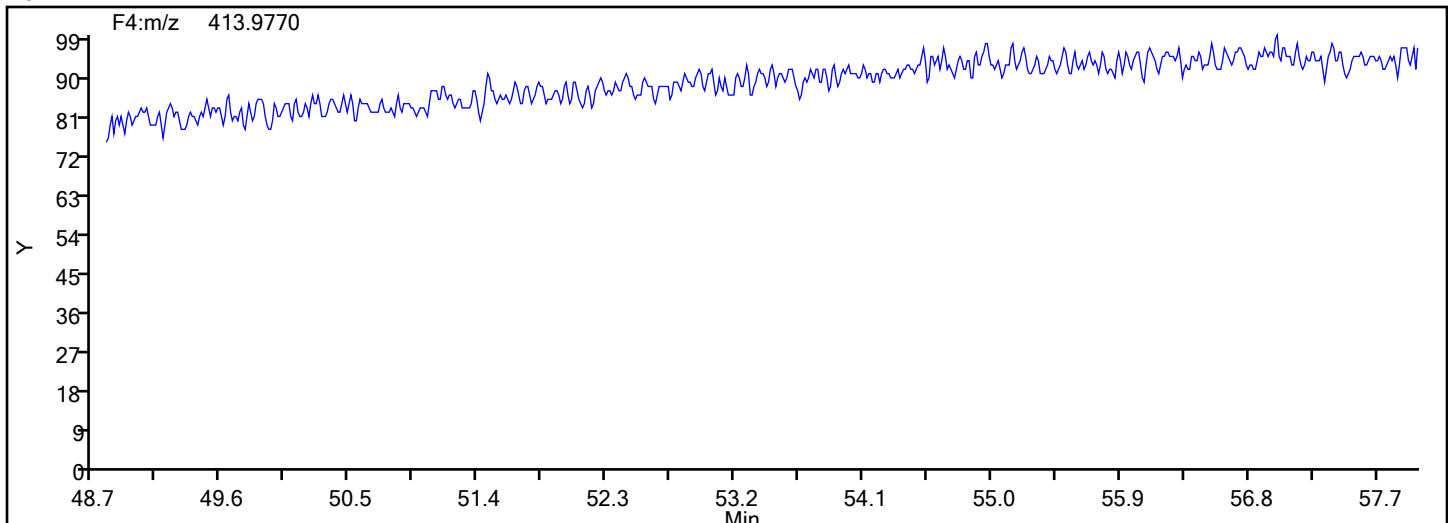
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

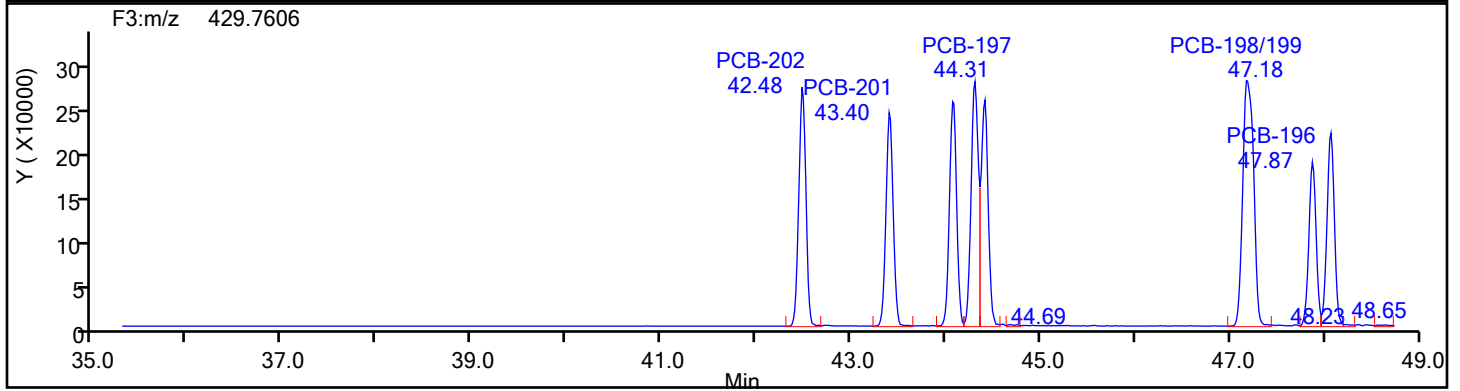
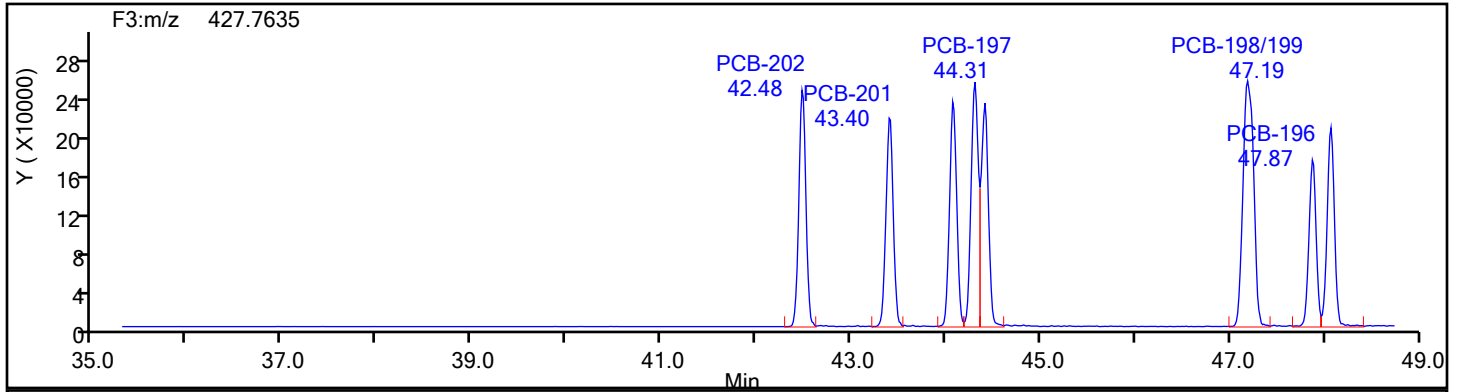
Worklist#: 87130

Sample Line#: 4

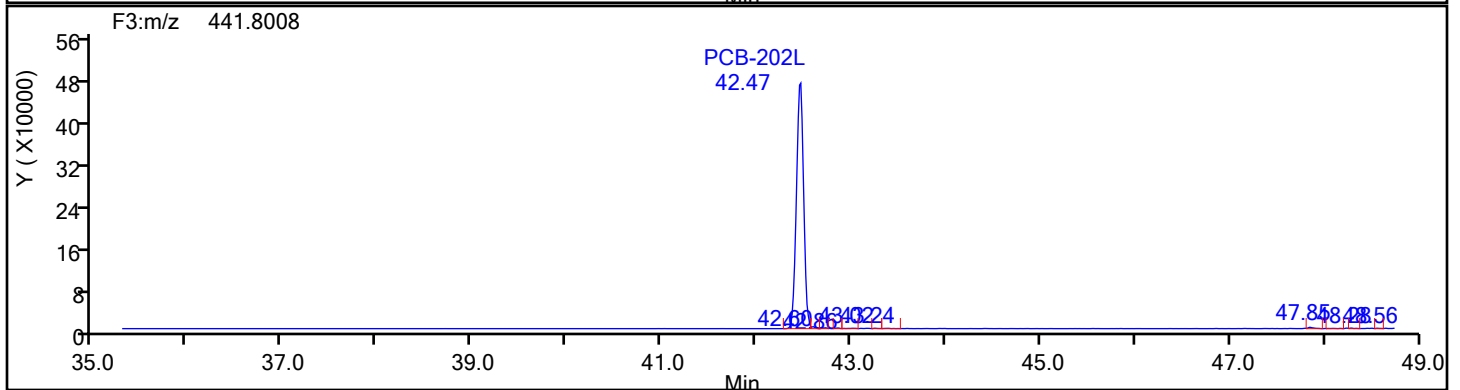
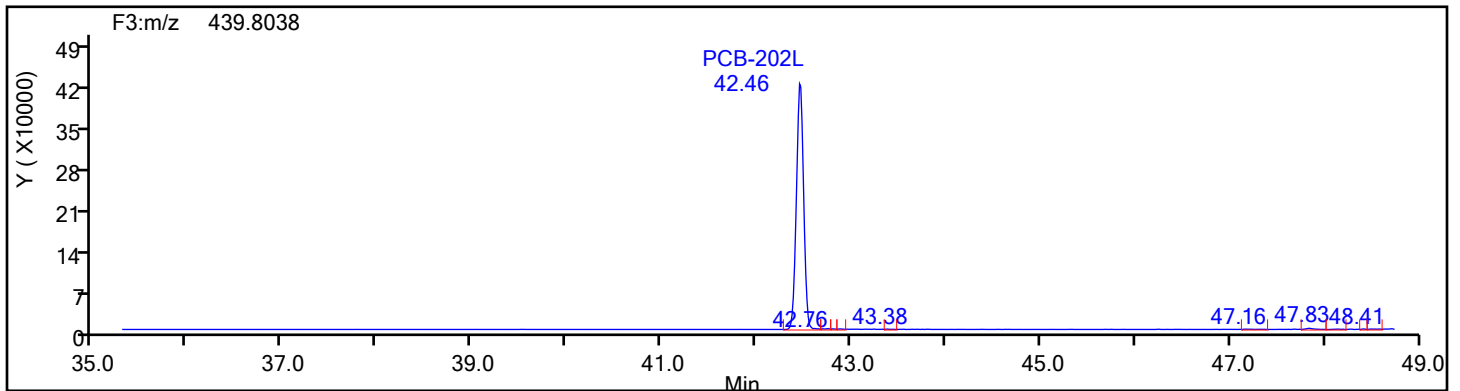
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

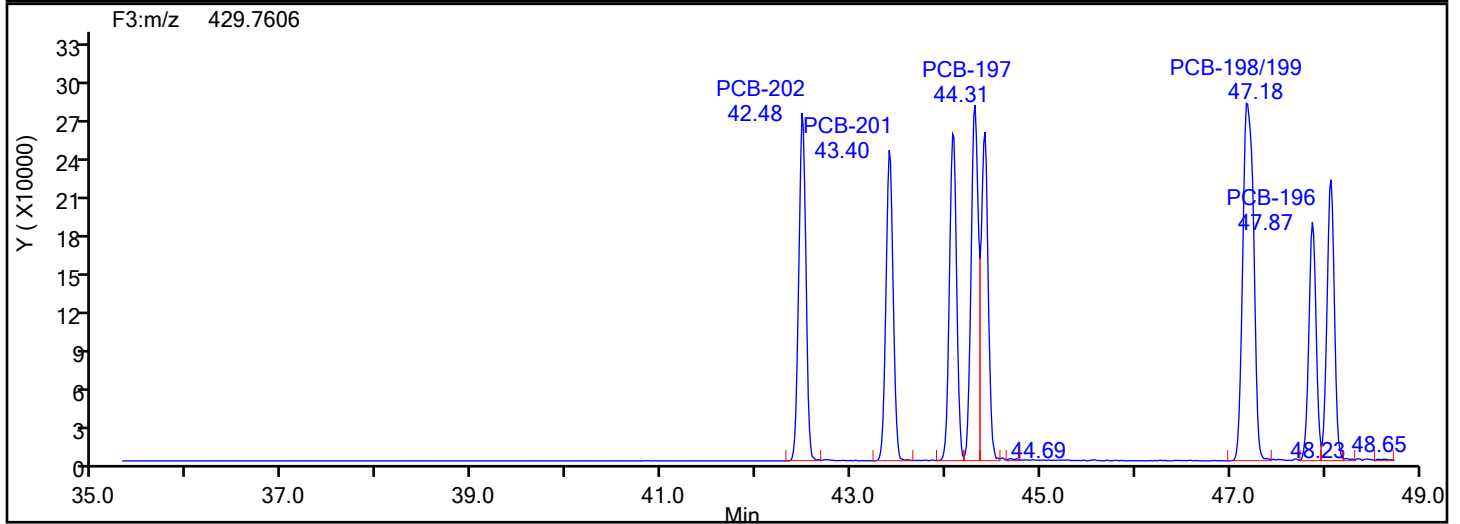
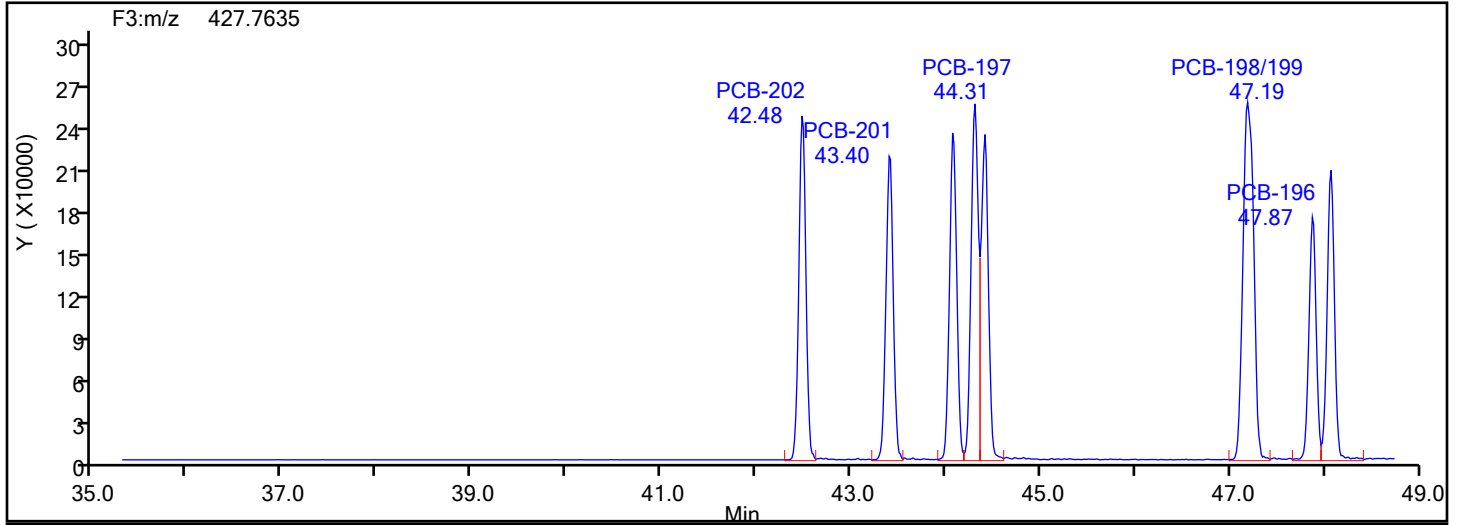
Worklist#: 87130

Sample Line#: 4

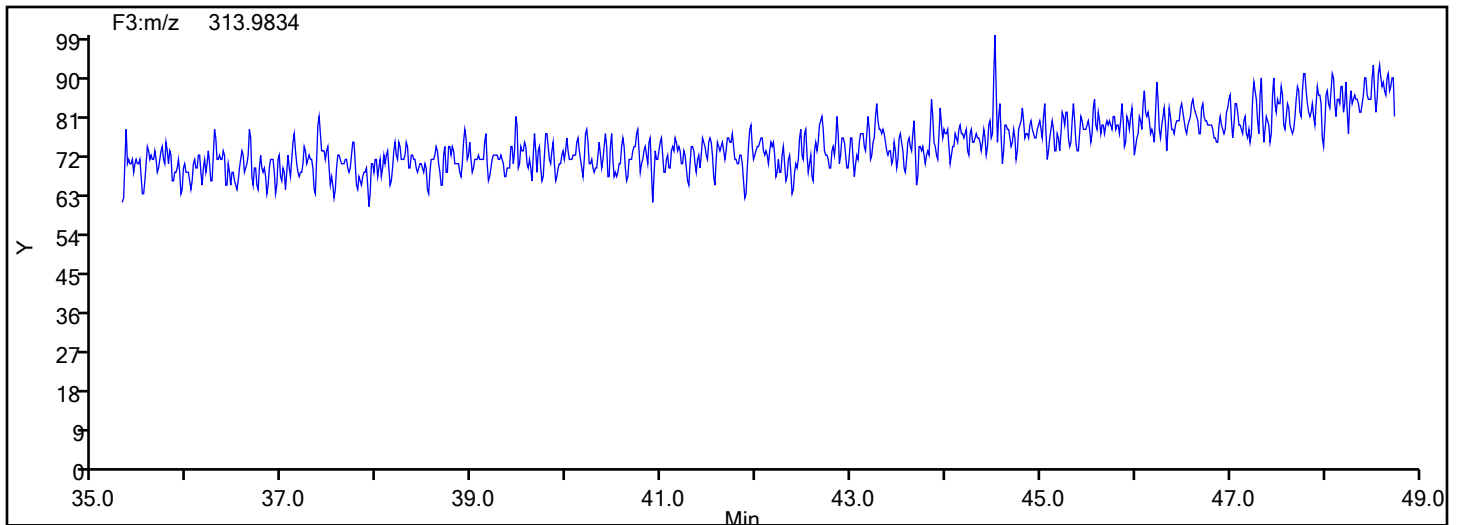
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

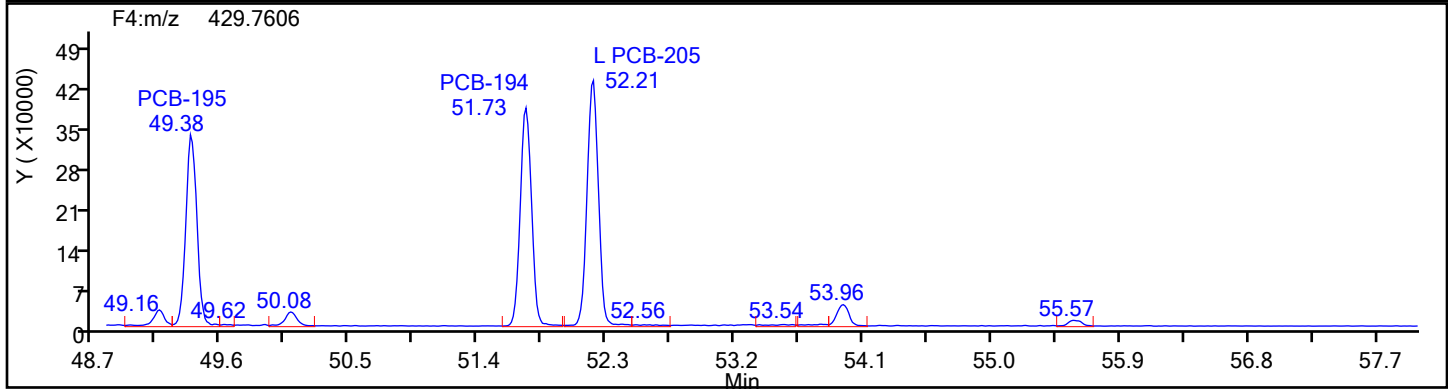
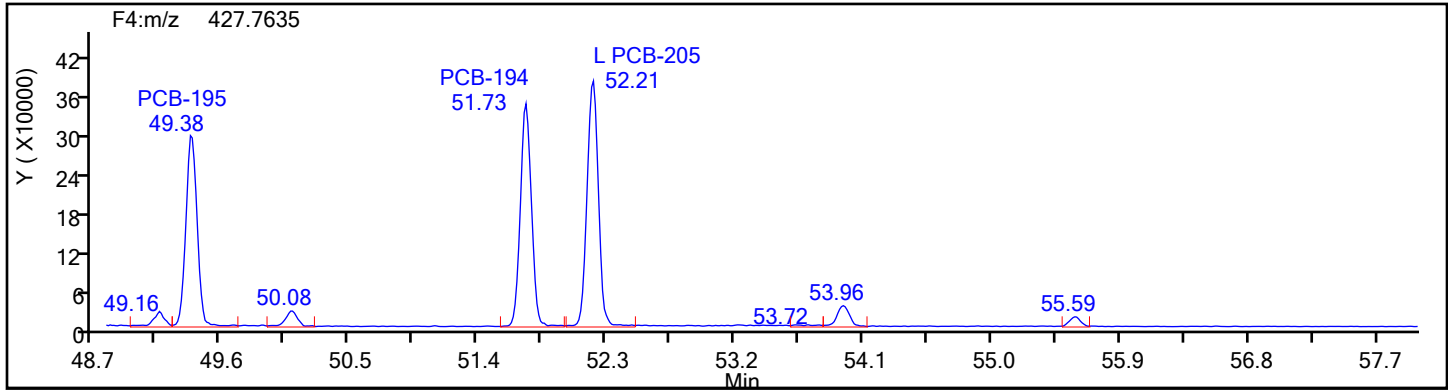


OcPCB F3 Lock Mass

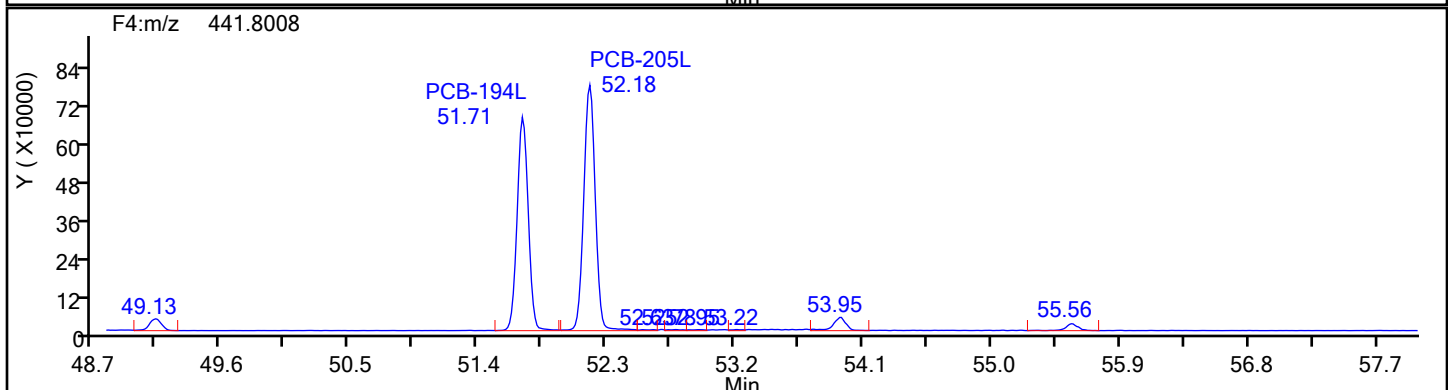
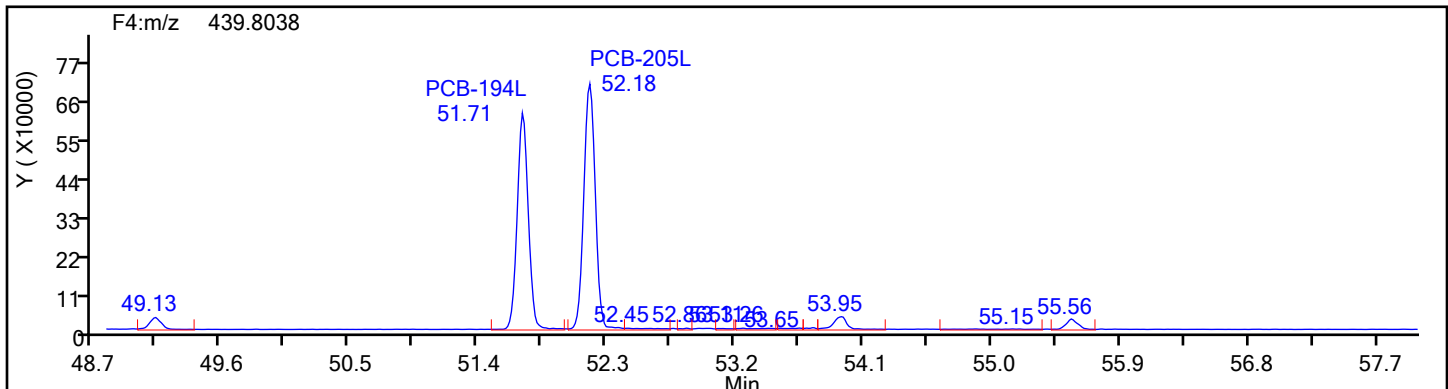


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

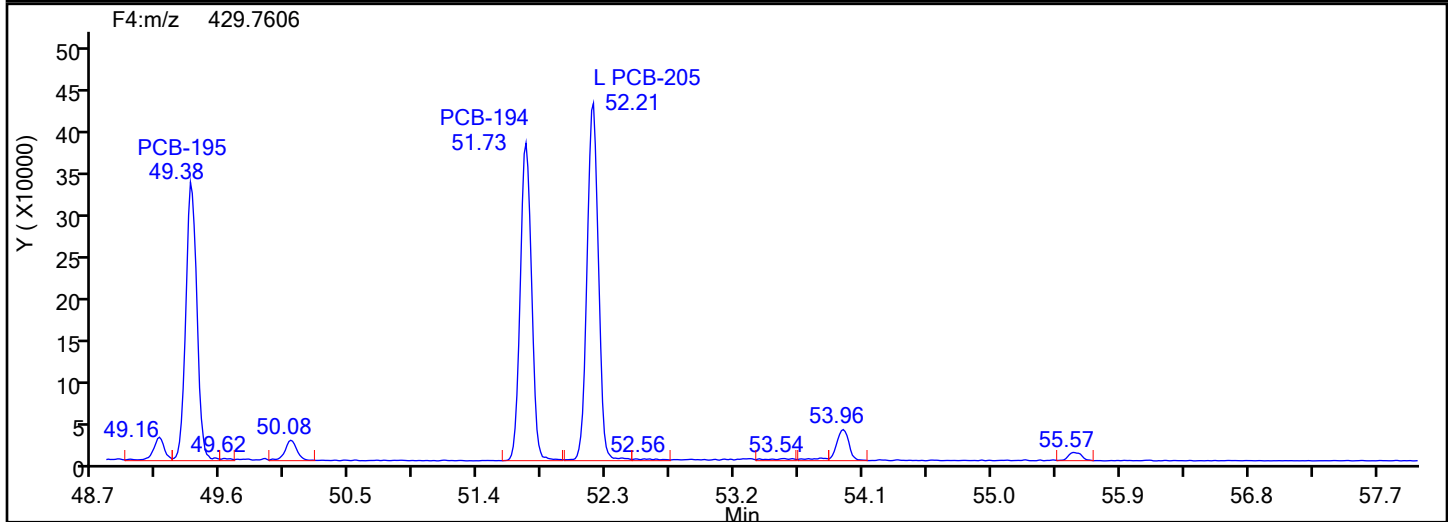
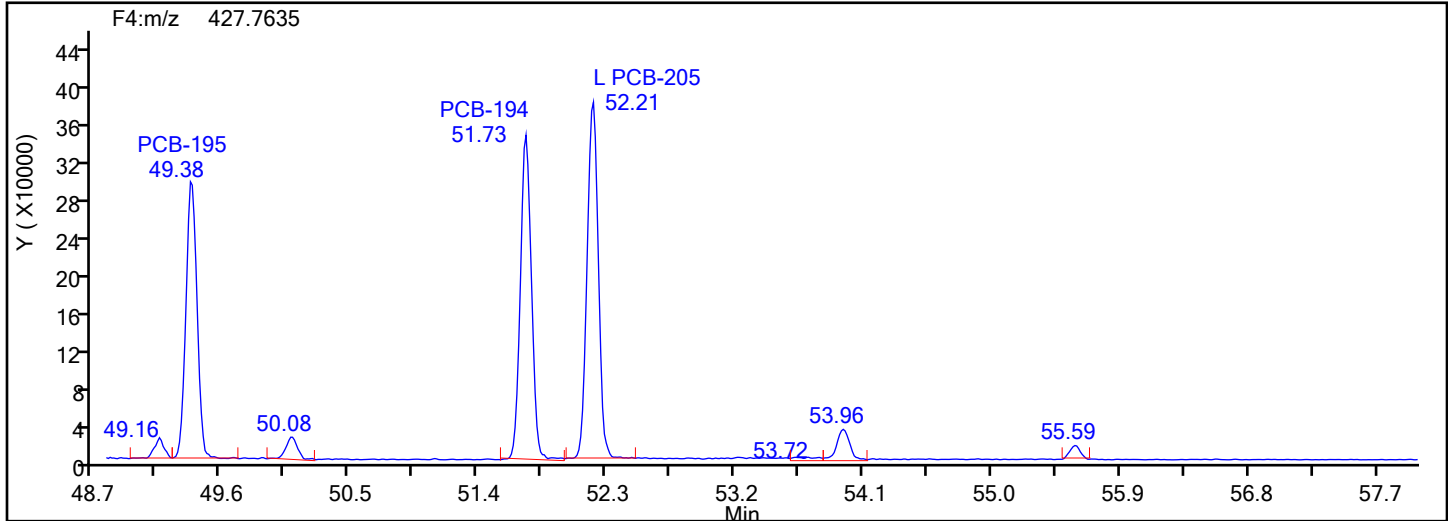
Worklist#: 87130

Sample Line#: 4

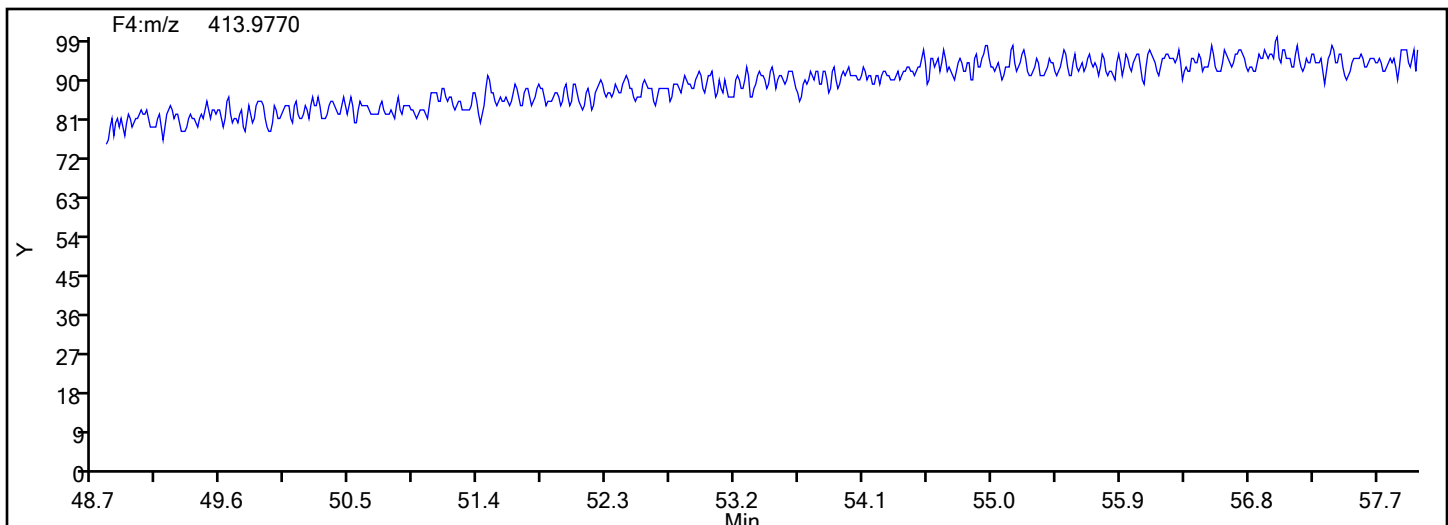
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

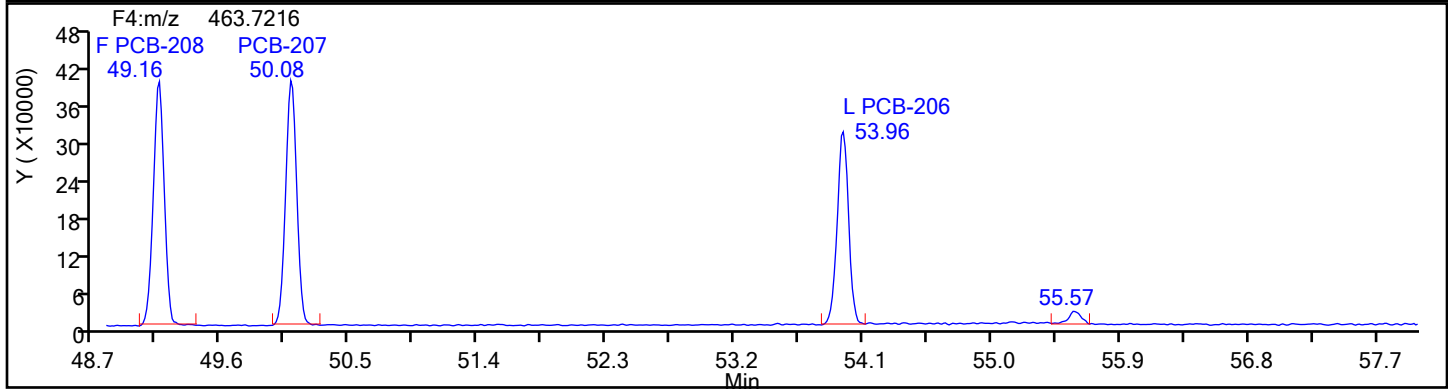
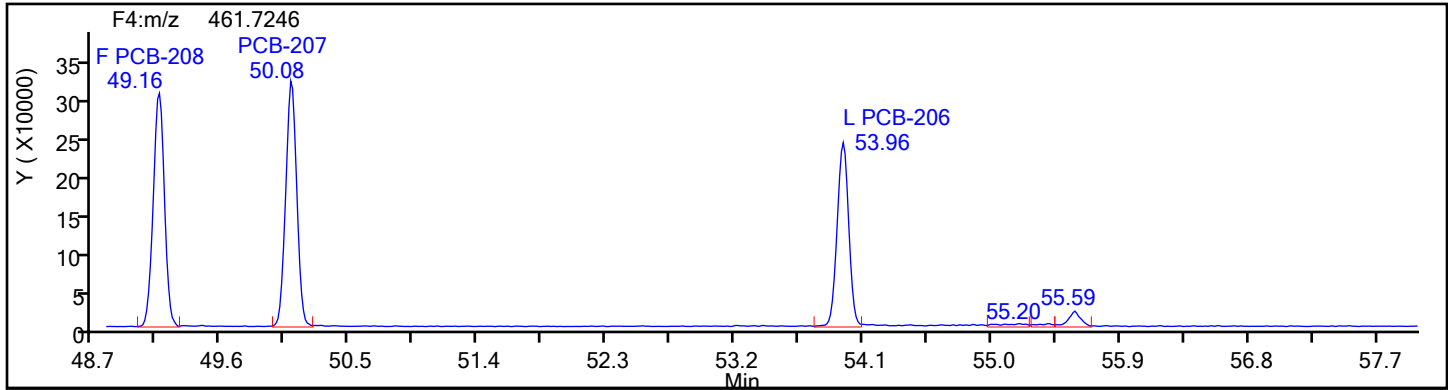


OcPCB F4 Lock Mass

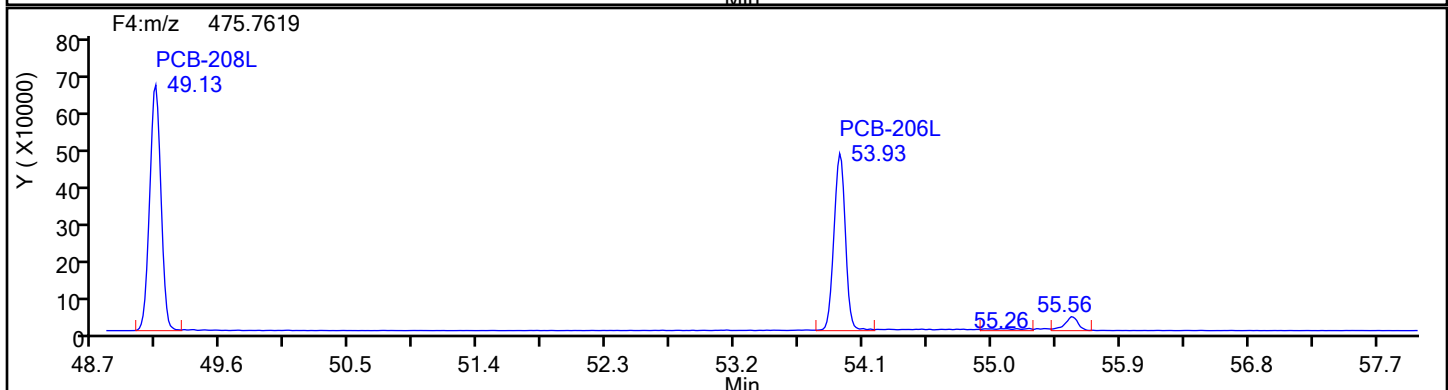
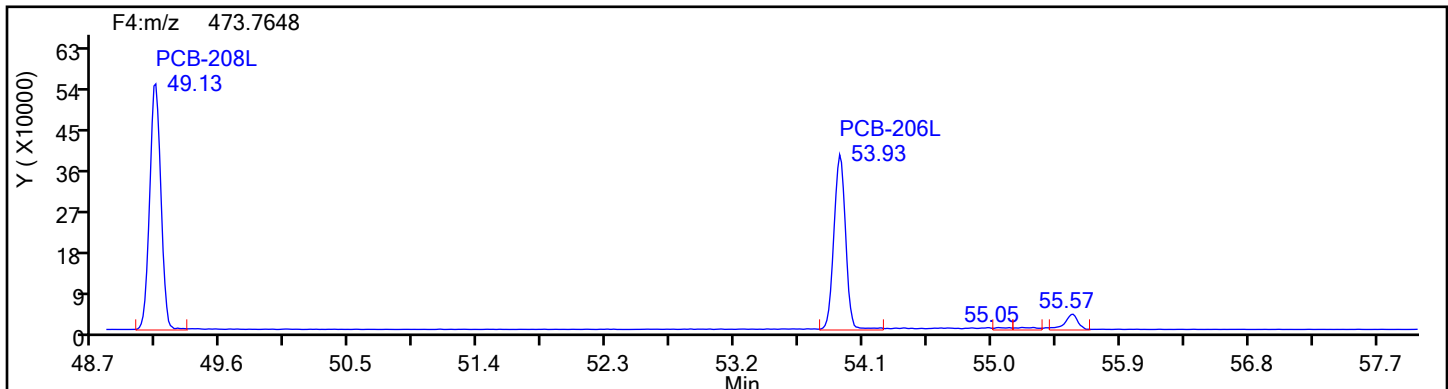


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

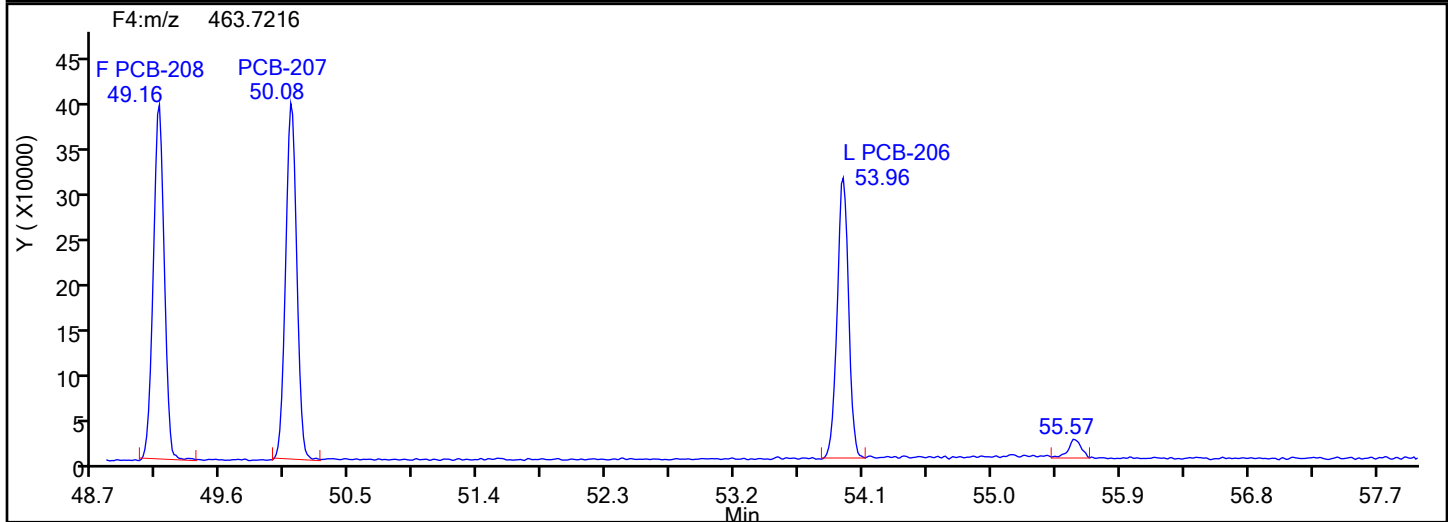
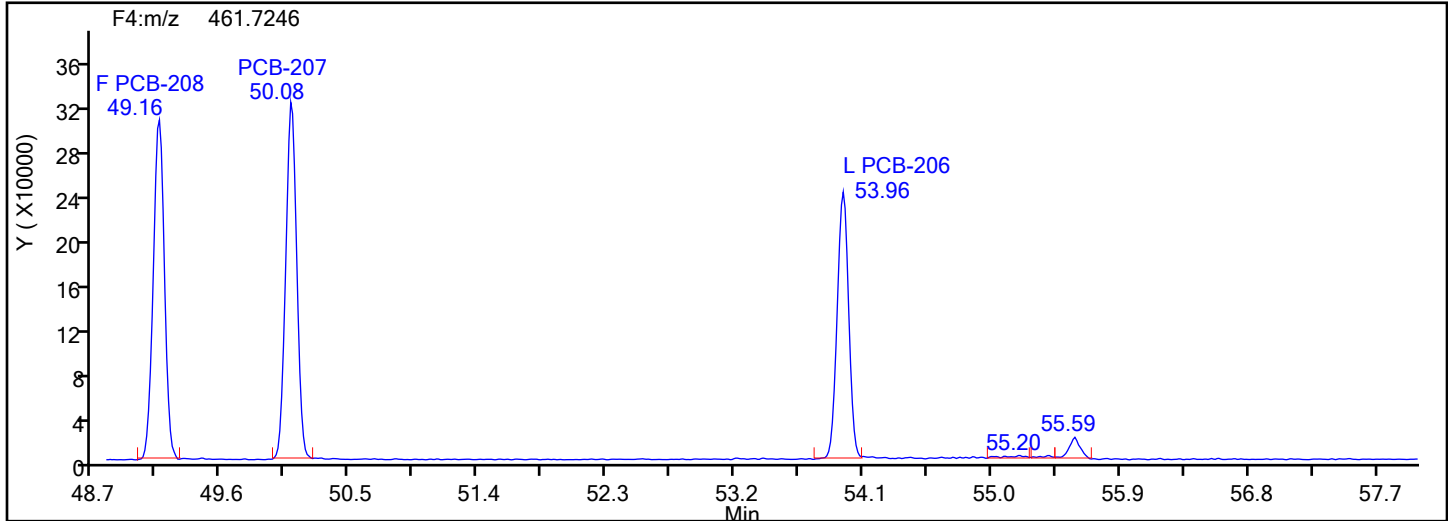
Worklist#: 87130

Sample Line#: 4

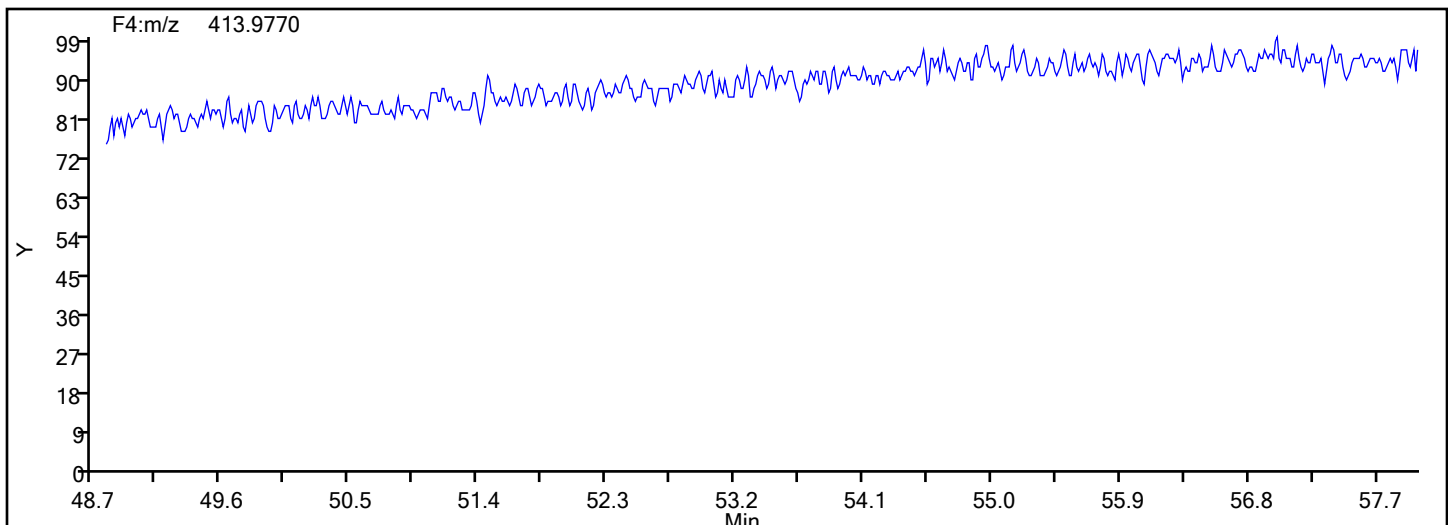
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

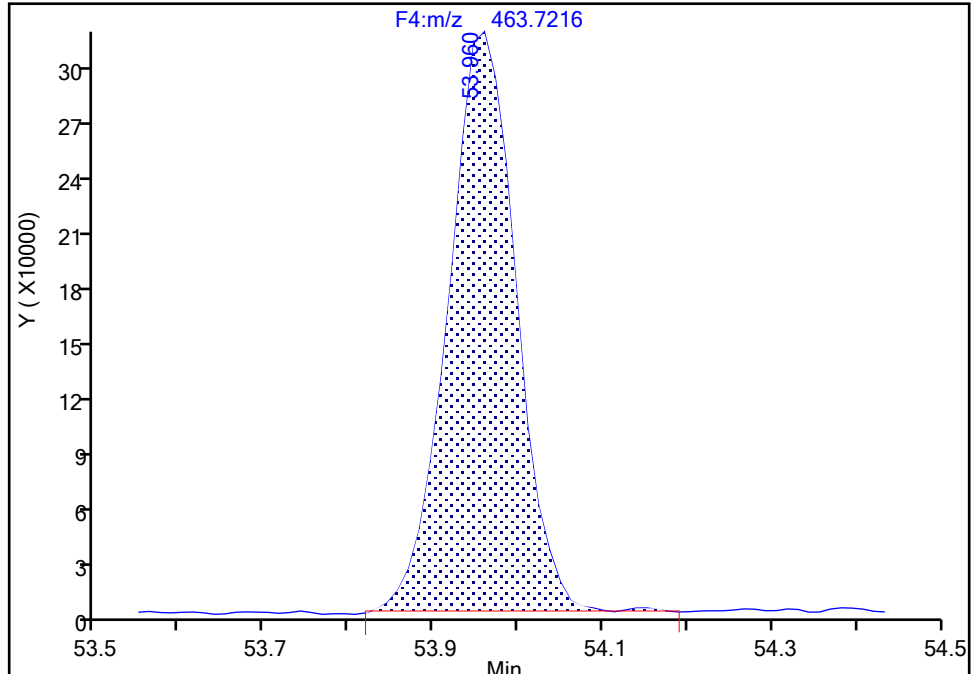
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 2

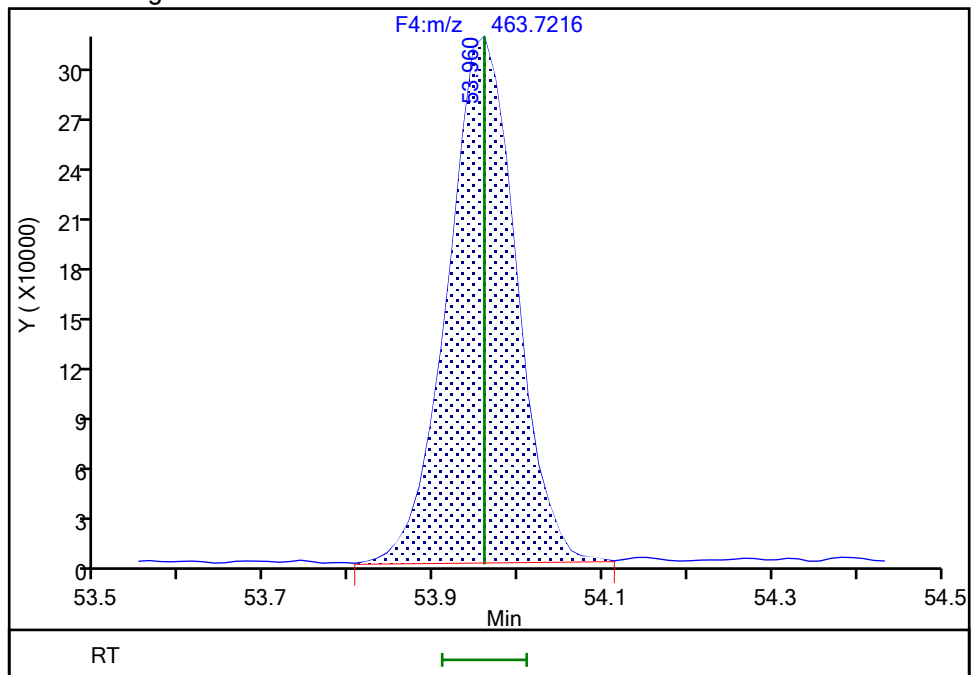
RT: 53.96
Area: 1747998
Amount: 47.494765
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 1761287
Amount: 47.741918
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:12:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

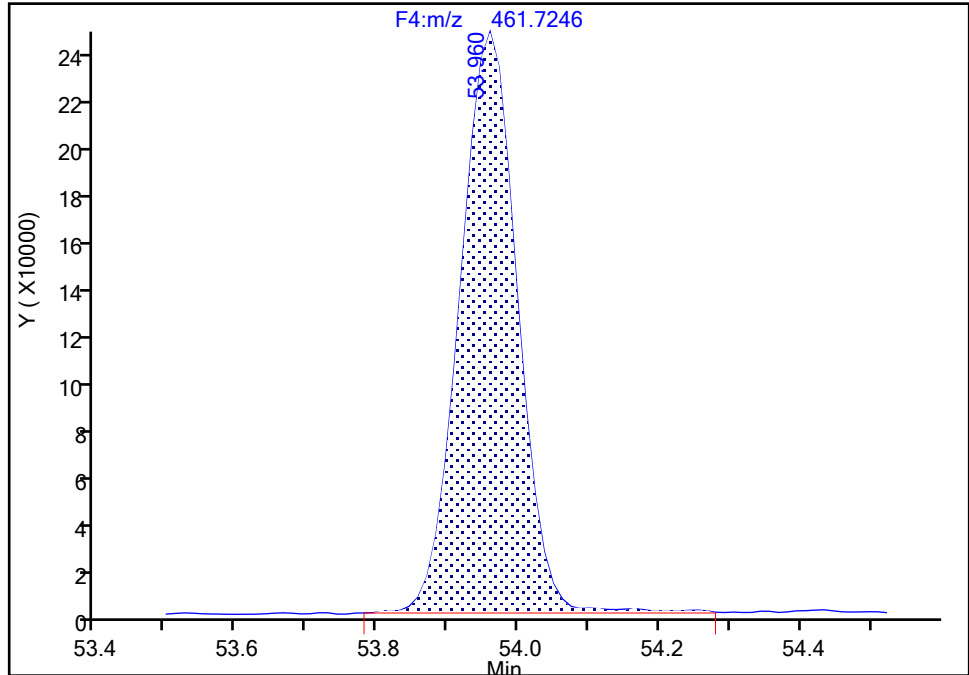
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D
Lims ID: IC L4
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

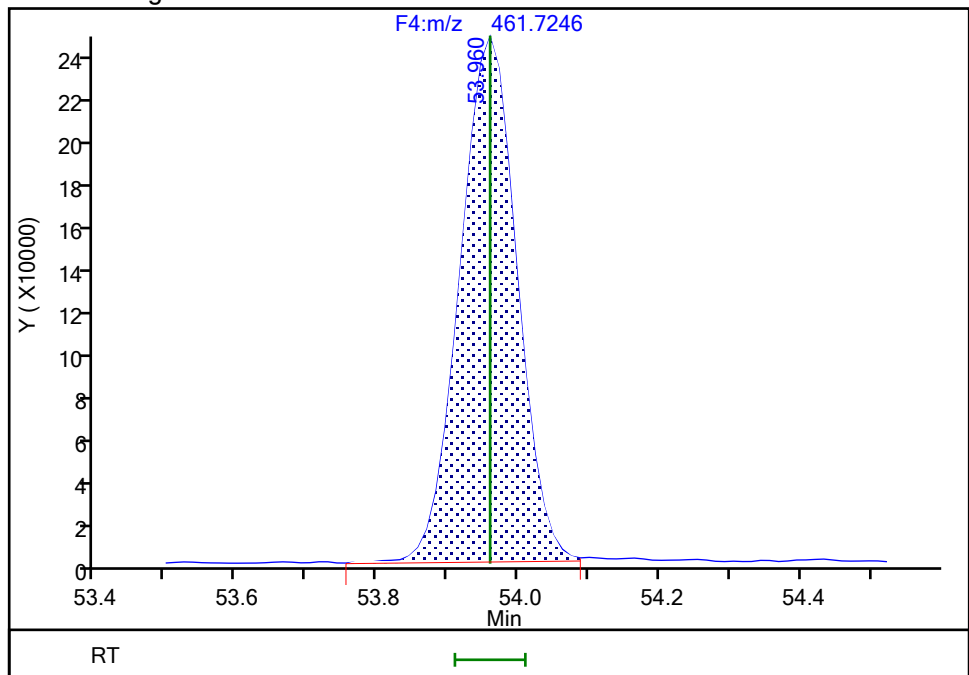
RT: 53.96
Area: 1370361
Amount: 47.494765
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 1363275
Amount: 47.741918
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:13:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2118 of 3050

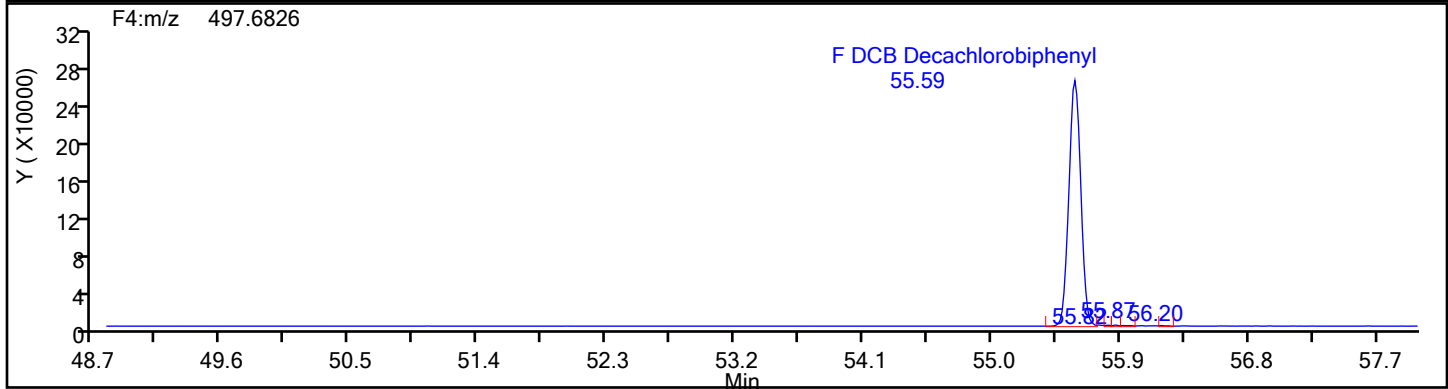
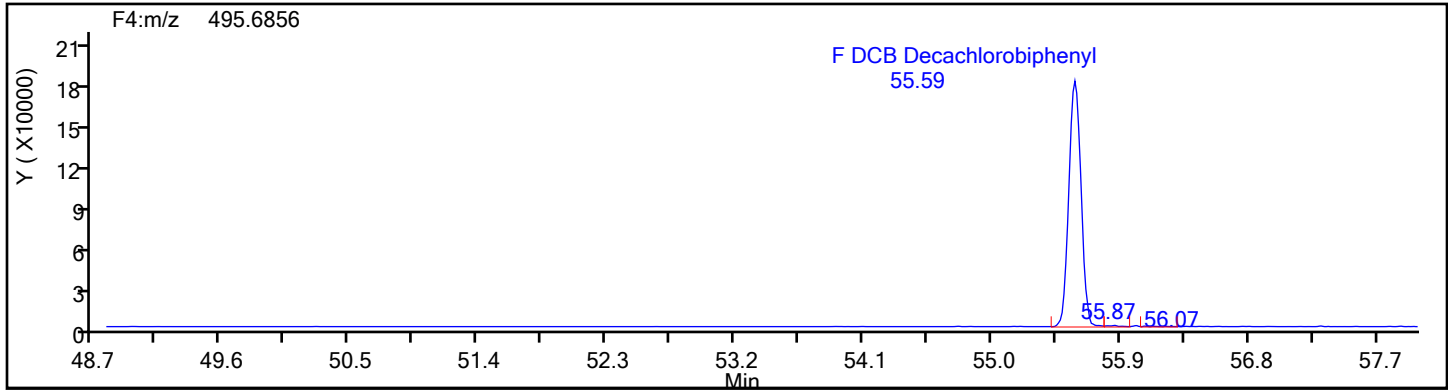
BASFWHC-McIntosh-010119

9/6/2024

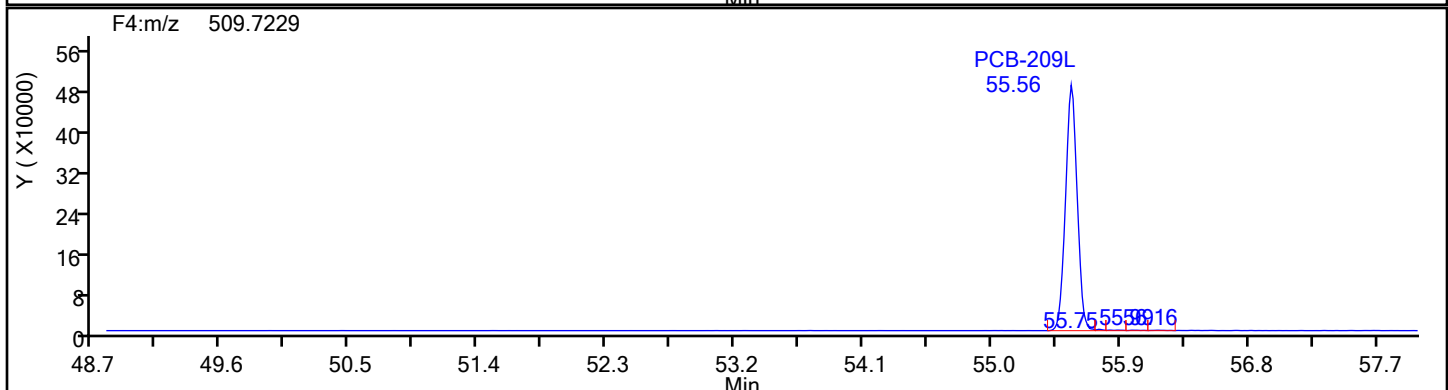
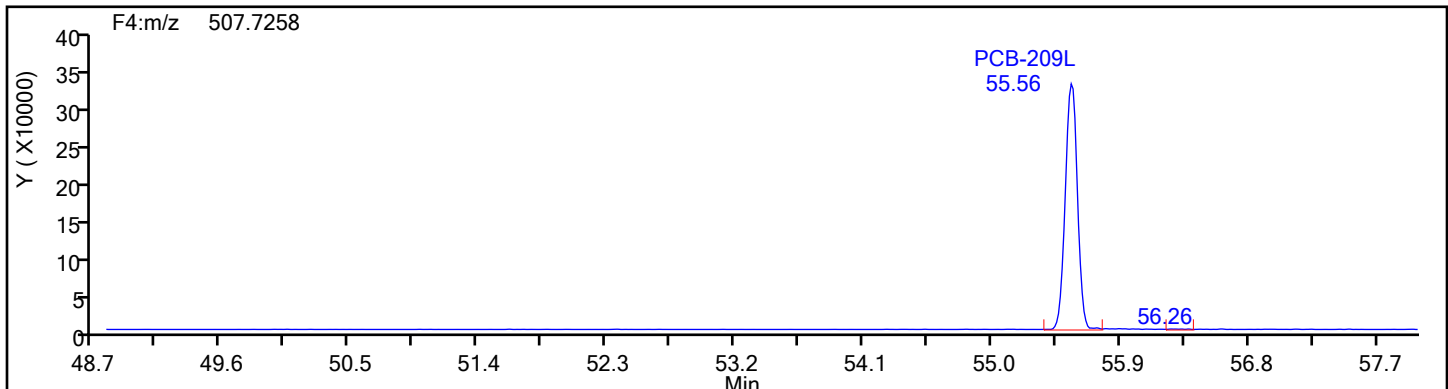
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 4
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

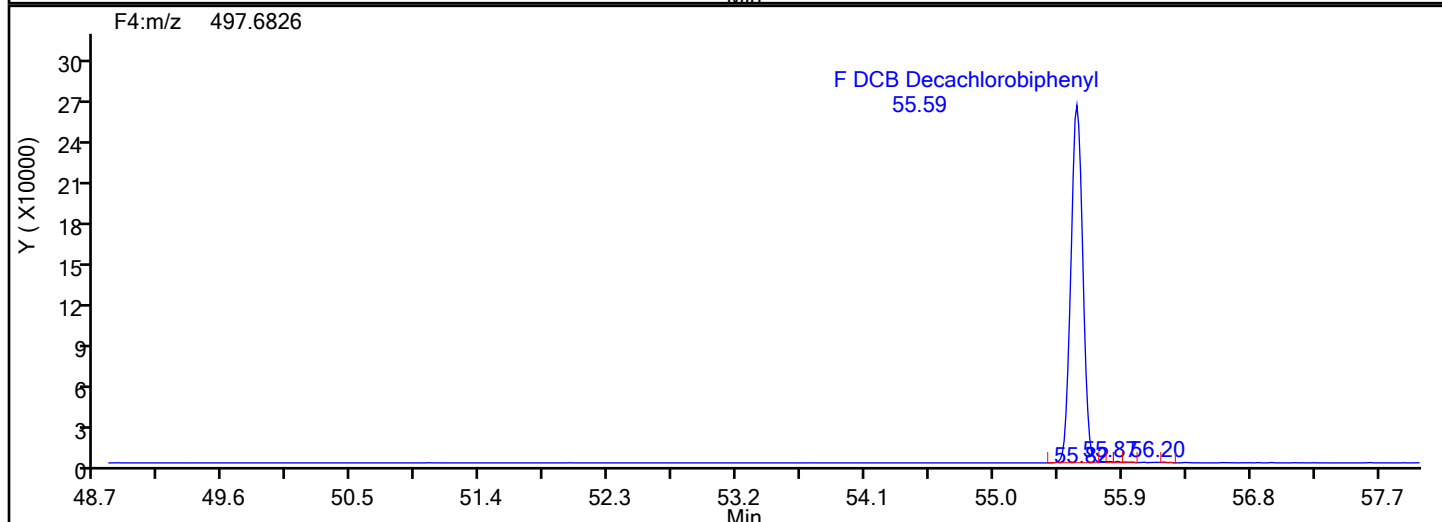
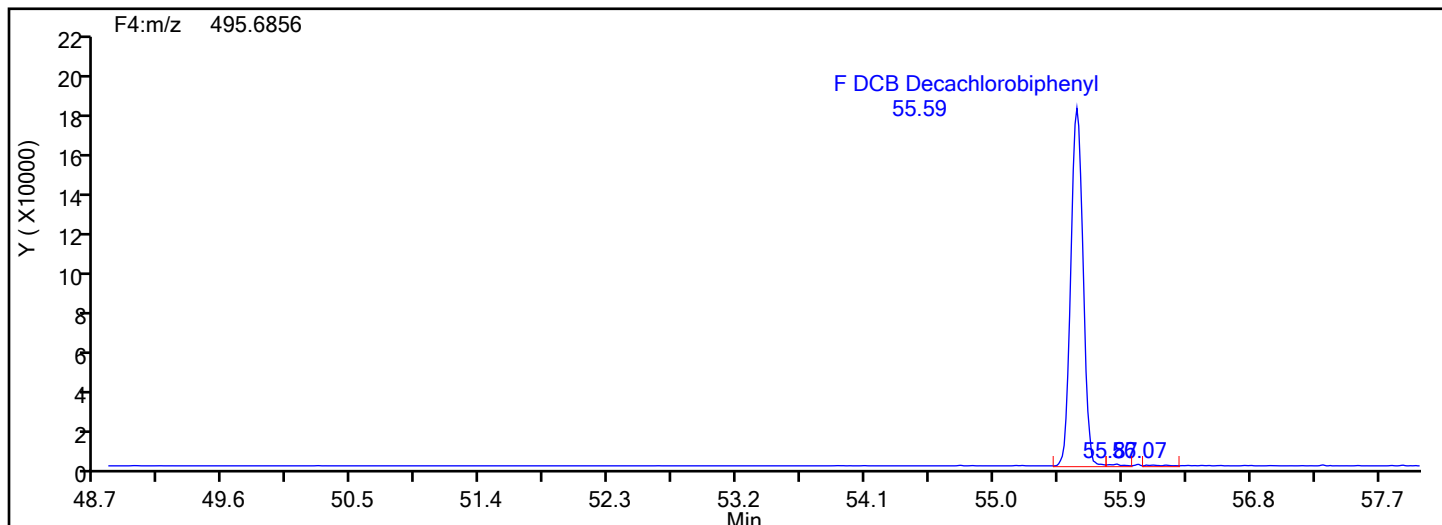
Worklist#: 87130

Sample Line#: 4

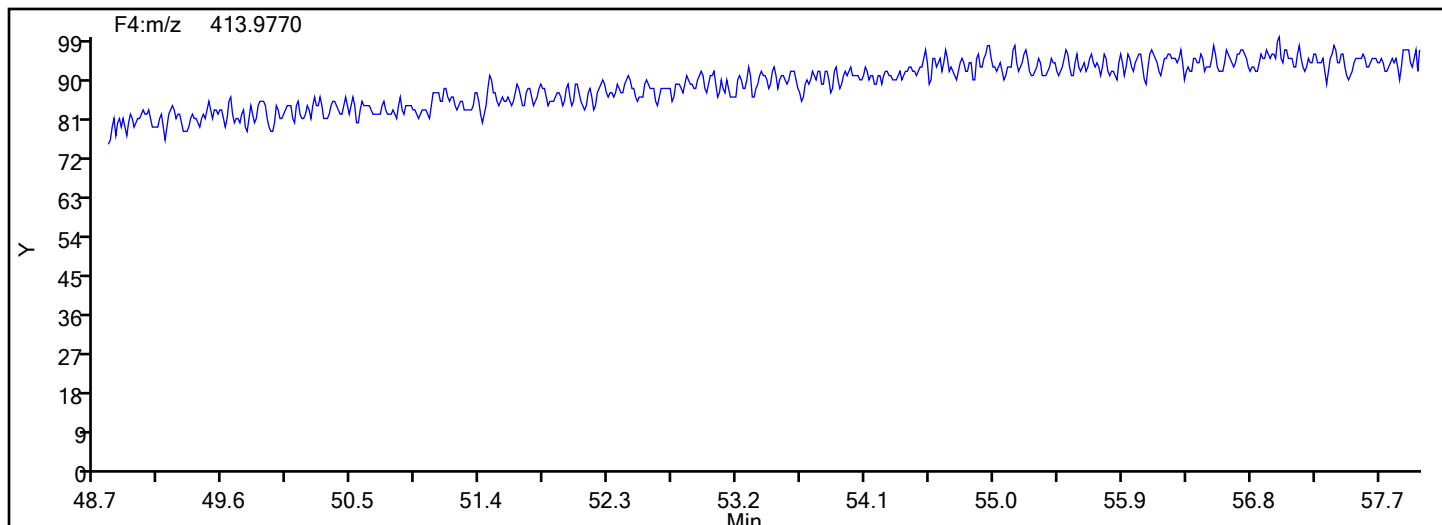
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-005
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Compound	RT (min.)	Area	Ratio	lcal RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1217.8	1217.8	1.154	1.154		
D PCB-1L	11:36	13820437	3.16	1.6108	98.0	98.0	0.8301	0.8301	97.96	
D PCB-3L	13:45	13803706	3.20	1.5891	99.2	99.2	0.8414	0.8414	99.18	
PCB-1	11:36	68569399	3.29	1.2191	407.0	407.0	1.062	1.062	102	
PCB-2	13:36	67117936	3.26	1.1805	411.6	411.6	1.175	1.175	103	
PCB-3	13:46	67267765	3.23	1.2206	399.2	399.2	1.225	1.225	99.81	
S Total Dichlorobiphenyls					4678.9	4678.9	0.0272	0.0272		
D PCB-4L	14:01	5561618	1.57	0.6475	98.1	98.1	0.1179	0.1179	98.07	
* PCB-9L	15:58	8758158	1.62		100.0	100.0				
\$ PCB-8L	16:48	33958319	1.61	1.2066	371.9	371.9	0.0782	0.0782	92.96	
D PCB-15L	19:53	9575202	1.63	1.0789	101.3	101.3	0.0707	0.0707	101	
PCB-4	14:02	27890333	1.59	1.2818	391.2	391.2	0.0340	0.0340	97.81	
PCB-10	14:12	38655568	1.60	1.3149	388.4	388.4	0.0284	0.0284	97.11	
PCB-9	15:59	42181873	1.60	1.4224	391.8	391.8	0.0263	0.0263	97.95	
PCB-7	16:09	41182455	1.60	1.4134	385.0	385.0	0.0264	0.0264	96.24	
PCB-6	16:24	44979638	1.61	1.5421	385.4	385.4	0.0242	0.0242	96.35	
PCB-5	16:42	40020538	1.61	1.3395	394.8	394.8	0.0279	0.0279	98.69	
PCB-8	16:50	47031816	1.61	1.5889	391.1	391.1	0.0235	0.0235	97.78	
PCB-14	18:27	41013941	1.60	1.4025	386.4	386.4	0.0266	0.0266	96.60	
PCB-11	19:17	38153224	1.60	1.2951	389.3	389.3	0.0288	0.0288	97.31	
PCB-12	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-13 (C12)	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-15	19:54	47283812	1.61	1.2903	382.7	382.7	0.0253	0.0253	95.68	
S Total Trichlorobiphenyls					9347.4	9347.4	2.029	2.029		
D PCB-19L	17:06	3537933	1.07	0.6285	97.7	97.7	0.6831	0.6831	97.68	
* PCB-32L	20:22	5762324	1.10		100.0	100.0				
* PCB-31L	22:37	16737748	1.05		100.0	100.0				
\$ PCB-28L	22:55	63120528	1.05	1.0494	359.4	359.4	0.0845	0.0845	89.84	
D PCB-37L	26:55	14730805	1.06	0.8749	100.6	100.6	0.1013	0.1013	101	
PCB-19	17:08	18011092	1.06	1.2809	397.4	397.4	0.0291	0.0291	99.36	
PCB-18	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-30 (C18)	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-17	19:24	17339157	1.06	1.2430	394.3	394.3	0.0300	0.0300	98.57	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:38	26360662	1.06	1.8327	406.5	406.5	0.0203	0.0203	102	
PCB-24	19:45	23939751	1.05	1.6777	403.3	403.3	0.0222	0.0222	101	
PCB-16	19:52	16041877	1.05	1.1286	401.8	401.8	0.0330	0.0330	100	
PCB-32	20:23	25877431	1.05	1.8324	399.2	399.2	0.0203	0.0203	99.79	
PCB-34	21:38	63733574	1.06	1.1277	383.6	383.6	3.136	3.136	95.91	
PCB-23	21:48	59373148	1.04	1.0813	372.7	372.7	3.271	3.271	93.19	
PCB-26	22:07	130294664	1.05	1.1255	785.9	785.9	3.142	3.142	98.24	
PCB-29 (C26)	22:07	130294664	1.05	1.1255	785.9	785.9	3.142	3.142	98.24	
PCB-25	22:20	71143057	1.05	1.2728	379.4	379.4	2.779	2.779	94.86	
PCB-31	22:39	63731167	1.04	1.1532	375.1	375.1	3.067	3.067	93.79	
PCB-20	22:57	135356691	1.04	1.1718	784.1	784.1	3.018	3.018	98.02	
PCB-28 (C20)	22:57	135356691	1.04	1.1718	784.1	784.1	3.018	3.018	98.02	
PCB-21	23:07	121766982	1.03	1.0746	769.2	769.2	3.291	3.291	96.16	M
PCB-33 (C21)	23:07	121766982	1.03	1.0746	769.2	769.2	3.291	3.291	96.16	M
PCB-22	23:34	67196694	1.06	1.1932	382.3	382.3	2.964	2.964	95.57	
PCB-36	25:08	61342563	1.05	1.1071	376.2	376.2	3.195	3.195	94.04	
PCB-39	25:29	65934116	1.05	1.1581	386.5	386.5	3.054	3.054	96.62	
PCB-38	26:04	61948482	1.06	1.0843	387.8	387.8	3.262	3.262	96.96	
PCB-35	26:32	65004472	1.03	1.1297	390.6	390.6	3.131	3.131	97.66	
PCB-37	26:56	63280259	1.05	1.1435	375.7	375.7	3.093	3.093	93.92	
S Total Tetrachlorobiphenyls					15935	15935	2.936	2.936		
D PCB-54L	20:12	3162909	0.80	0.5562	98.7	98.7	0.0286	0.0286	98.68	
* PCB-52L	24:46	8264898	0.81		100.0	100.0				
\$ PCB-79L	32:41	42309500	0.80	1.0018	387.7	387.7	0.1449	0.1449	96.92	
D PCB-81L	33:40	10335461	0.79	1.2470	100.3	100.3	0.1356	0.1356	100	
D PCB-77L	34:14	11450569	0.81	1.3212	104.9	104.9	0.1280	0.1280	105	
PCB-54	20:12	16256949	0.81	1.2733	403.7	403.7	0.0496	0.0496	101	
PCB-50	22:23	70687479	0.78	0.8578	756.5	756.5	3.781	3.781	94.56	
PCB-53 (C50)	22:23	70687479	0.78	0.8578	756.5	756.5	3.781	3.781	94.56	
PCB-45	23:07	69485788	0.79	0.8264	771.9	771.9	3.925	3.925	96.48	M
PCB-51 (C45)	23:07	69485788	0.79	0.8264	771.9	771.9	3.925	3.925	96.48	M
PCB-46	23:21	28834506	0.80	0.7101	372.8	372.8	4.568	4.568	93.20	
PCB-52	24:46	38354033	0.80	0.9194	383.0	383.0	3.528	3.528	95.74	
PCB-43	24:56	84403637	0.79	1.0333	749.8	749.8	3.139	3.139	93.73	M
PCB-73 (C43)	24:56	84403637	0.79	1.0333	749.8	749.8	3.139	3.139	93.73	M
PCB-49	25:13	86848614	0.79	1.0685	746.2	746.2	3.035	3.035	93.27	
PCB-69 (C49)	25:13	86848614	0.79	1.0685	746.2	746.2	3.035	3.035	93.27	
PCB-48	25:32	34271968	0.79	0.8399	374.6	374.6	3.862	3.862	93.65	
PCB-44	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-47 (C44)	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-65 (C44)	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-59	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-62 (C59)	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-75 (C59)	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-42	26:18	33116229	0.79	0.8097	375.5	375.5	4.006	4.006	93.87	
PCB-40	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-41 (C40)	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-71 (C40)	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-64	27:00	47066920	0.79	1.1776	366.9	366.9	2.754	2.754	91.73	
PCB-72	27:51	45559809	0.80	1.0943	382.2	382.2	2.964	2.964	95.55	
PCB-68	28:08	52714819	0.78	1.2533	386.1	386.1	2.588	2.588	96.53	
PCB-57	28:33	45493698	0.78	1.0818	386.1	386.1	2.998	2.998	96.51	
PCB-58	28:47	56416890	0.79	1.3253	390.8	390.8	2.447	2.447	97.69	
PCB-67	28:57	58816773	0.79	1.4230	379.4	379.4	2.279	2.279	94.86	
PCB-63	29:13	45663130	0.79	1.1240	373.0	373.0	2.886	2.886	93.24	
PCB-61	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-70 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-74 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-76 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-66	29:53	52981003	0.78	1.2583	386.5	386.5	2.578	2.578	96.64	
PCB-55	30:03	54230284	0.79	1.3236	376.1	376.1	2.450	2.450	94.03	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	50251634	0.79	1.2334	374.0	374.0	2.630	2.630	93.50	
PCB-60	30:46	45739750	0.79	1.1230	373.9	373.9	2.888	2.888	93.47	
PCB-80	31:10	54703996	0.80	1.3243	379.2	379.2	2.449	2.449	94.81	
PCB-79	32:41	58766091	0.79	1.4368	375.5	375.5	2.257	2.257	93.87	
PCB-78	33:15	46136888	0.78	1.1618	364.5	364.5	2.792	2.792	91.14	
PCB-81	33:41	42731408	0.79	1.0802	382.7	382.7	3.042	3.042	95.69	
PCB-77	34:15	45244571	0.79	1.0836	364.7	364.7	2.955	2.955	91.16	
S Total Pentachlorobiphenyls					18026	18026	1.410	1.410		
D PCB-104L	25:42	6672003	1.61	1.2161	97.4	97.4	0.0255	0.0255	97.39	
\$ PCB-95L	28:40	18806941	1.59	0.7218	390.5	390.5	0.0346	0.0346	97.63	
* PCB-101L	31:36	5633550	1.58		100.0	100.0				
\$ PCB-111L	34:17	27823366	1.60	1.3699	360.5	360.5	0.0226	0.0226	90.13	
D PCB-123L	36:15	10377703	1.58	0.9731	100.6	100.6	1.159	1.159	101	
D PCB-118L	36:34	10740248	1.60	1.0102	100.3	100.3	1.116	1.116	100	
D PCB-114L	37:06	10559524	1.60	0.9949	100.2	100.2	1.133	1.133	100	
D PCB-105L	37:44	10096861	1.59	0.9514	100.2	100.2	1.185	1.185	100	
* PCB-127L	39:13	10595355	1.61		100.0	100.0				
D PCB-126L	40:50	10103302	1.58	0.9439	101.0	101.0	1.195	1.195	101	
PCB-104	25:43	26991793	1.59	1.0087	401.1	401.1	0.0414	0.0414	100	
PCB-96	26:05	29124757	1.58	1.0940	399.0	399.0	0.0382	0.0382	99.75	
PCB-103	28:01	23026262	1.59	0.8741	394.8	394.8	0.0478	0.0478	98.70	
PCB-94	28:15	19293687	1.58	0.7640	378.5	378.5	0.0547	0.0547	94.62	
PCB-95	28:41	21743452	1.58	0.8033	405.7	405.7	0.0520	0.0520	101	
PCB-93	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-100 (C93)	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-98	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-102 (C98)	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-88	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-91 (C88)	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-84	29:46	18942616	1.58	0.7299	389.0	389.0	0.0573	0.0573	97.24	
PCB-89	30:15	19980724	1.60	0.7798	384.0	384.0	0.0536	0.0536	96.01	
PCB-121	30:40	34064929	1.60	1.2964	393.8	393.8	0.0322	0.0322	98.46	
PCB-92	31:02	22258079	1.58	0.8546	390.4	390.4	0.0489	0.0489	97.60	
PCB-90	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-101 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-113 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-83	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-99 (C83)	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-112	32:19	36244741	1.58	1.4111	385.0	385.0	0.0296	0.0296	96.24	
PCB-86	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-87 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-97 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-109 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-119 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-125 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-85	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-116 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-117 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-110	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-115 (C110)	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-82	33:54	21705824	1.60	0.8303	391.8	391.8	0.0504	0.0504	97.95	
PCB-111	34:19	31849869	1.58	1.2125	393.7	393.7	0.0345	0.0345	98.42	
PCB-120	34:47	38221427	1.58	1.4762	388.1	388.1	0.0283	0.0283	97.01	
PCB-108	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-124 (C108)	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-107	36:09	48169388	1.55	1.2121	383.0	383.0	3.926	3.926	95.76	
PCB-123	36:16	43726655	1.57	1.0722	393.0	393.0	4.294	4.294	98.24	
PCB-106	36:22	43503164	1.56	1.0839	386.8	386.8	4.390	4.390	96.71	
PCB-118	36:35	49487841	1.57	1.2055	382.2	382.2	3.812	3.812	95.55	
PCB-122	36:56	38072113	1.57	0.9567	383.5	383.5	4.974	4.974	95.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:07	44610183	1.56	1.0842	389.7	389.7	4.349	4.349	97.42	
PCB-105	37:46	45872125	1.58	1.1879	382.5	382.5	4.101	4.101	95.61	
PCB-127	39:14	46076121	1.57	1.1394	389.8	389.8	4.177	4.177	97.44	
PCB-126	40:51	44661015	1.58	1.0976	402.7	402.7	4.590	4.590	101	
S Total Hexachlorobiphenyls					16547	16547	1.592	1.592		
D PCB-155L	31:22	5892178	1.25	1.0851	96.4	96.4	0.0349	0.0349	96.39	
\$ PCB-153L	38:27	27374804	1.28	0.9169	348.1	348.1	0.8737	0.8737	87.02	
* PCB-138L	39:41	7155531	1.28		100.0	100.0				
\$ PCB-159L	41:56	4551409	1.30	0.5118	101.6	101.6	1.285	1.285	102	
D PCB-167L	42:42	8748546	1.27	1.2572	97.2	97.2	0.6533	0.6533	97.25	
D PCB-156L	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-157L (C156L)	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-169L	47:05	8761705	1.28	1.2439	98.4	98.4	0.6604	0.6604	98.44	
PCB-155	31:24	22251730	1.26	0.9444	399.9	399.9	0.0297	0.0297	99.97	
PCB-152	31:35	22836429	1.26	0.9895	391.7	391.7	0.0284	0.0284	97.92	
PCB-150	31:45	23890856	1.27	1.0132	400.2	400.2	0.0277	0.0277	100	
PCB-136	32:07	23743749	1.27	1.0116	398.4	398.4	0.0277	0.0277	99.59	
PCB-145	32:25	22672411	1.28	0.9685	397.3	397.3	0.0290	0.0290	99.33	
PCB-148	33:56	17957394	1.27	0.7603	400.9	400.9	0.0369	0.0369	100	
PCB-135	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-151 (C135)	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-154	34:47	19278459	1.26	0.8129	402.5	402.5	0.0345	0.0345	101	
PCB-144	35:05	18139372	1.26	0.7852	392.1	392.1	0.0357	0.0357	98.01	
PCB-147	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-149 (C147)	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-134	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-143 (C134)	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-139	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-140 (C139)	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-131	36:15	25806641	1.26	0.7503	401.0	401.0	2.777	2.777	100	
PCB-142	36:23	25727292	1.25	0.7507	399.6	399.6	2.775	2.775	99.89	
PCB-132	36:42	24603976	1.25	0.7489	383.0	383.0	2.782	2.782	95.76	
PCB-133	37:13	28247093	1.25	0.8096	406.8	406.8	2.574	2.574	102	
PCB-165	37:37	34588489	1.26	1.0247	393.5	393.5	2.033	2.033	98.39	
PCB-146	37:52	32748351	1.25	0.9637	396.2	396.2	2.162	2.162	99.05	
PCB-161	37:59	38113824	1.26	1.1288	393.7	393.7	1.846	1.846	98.42	
PCB-153	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-168 (C153)	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-141	38:40	29064533	1.26	0.8755	387.1	387.1	2.380	2.380	96.76	
PCB-130	39:04	23530162	1.26	0.7051	389.1	389.1	2.955	2.955	97.27	
PCB-137	39:18	25797296	1.25	0.7767	387.3	387.3	2.683	2.683	96.82	
PCB-164	39:25	35754648	1.27	1.0382	401.5	401.5	2.007	2.007	100	
PCB-129	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-138 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-160 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-163 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-158	40:06	43420955	1.27	1.3110	386.1	386.1	1.589	1.589	96.54	Ma
PCB-128	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-166 (C128)	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-159	41:58	46357455	1.25	1.3856	390.1	390.1	1.504	1.504	97.52	
PCB-162	42:15	41684795	1.25	1.2571	386.6	386.6	1.657	1.657	96.65	
PCB-167	42:43	37916934	1.25	1.1159	388.4	388.4	1.533	1.533	97.10	
PCB-156	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-157 (C156)	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-169	47:05	39746833	1.28	1.1628	390.1	390.1	1.518	1.518	97.53	
S Total Heptachlorobiphenyls					9335.4	9335.4	0.0337	0.0337		
D PCB-188L	37:06	7006215	1.08	1.3133	100.5	100.5	0.0452	0.0452	100	
\$ PCB-178L	40:09	20165082	1.08	1.0313	368.2	368.2	0.0575	0.0575	92.06	
* PCB-180L	45:14	5309833	1.07		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4386822	1.04	0.8362	98.8	98.8	0.0709	0.0709	98.80	
D PCB-189L	49:36	10502203	1.06	1.4414	99.5	99.5	0.5233	0.5233	99.49	
PCB-188	37:07	30886057	1.06	1.1350	388.4	388.4	0.0130	0.0130	97.10	
PCB-179	37:28	31130650	1.06	1.4276	382.8	382.8	0.0130	0.0130	95.70	
PCB-184	37:59	31018294	1.06	1.3672	398.3	398.3	0.0135	0.0135	99.57	
PCB-176	38:20	27007633	1.05	1.2331	384.5	384.5	0.0150	0.0150	96.12	
PCB-186	38:48	33163682	1.05	1.4737	395.0	395.0	0.0126	0.0126	98.76	
PCB-178	40:10	20314842	1.05	0.8946	398.6	398.6	0.0207	0.0207	99.66	
PCB-175	40:48	21220414	1.05	0.9524	391.1	391.1	0.0194	0.0194	97.78	
PCB-187	41:05	24989319	1.05	1.1018	398.1	398.1	0.0168	0.0168	99.53	
PCB-182	41:17	21292850	1.06	0.9247	404.2	404.2	0.0200	0.0200	101	
PCB-183	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-185 (C183)	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-174	41:56	21783169	1.05	0.9642	396.6	396.6	0.0192	0.0192	99.15	
PCB-177	42:22	21710754	1.05	0.9773	390.0	390.0	0.0189	0.0189	97.50	
PCB-181	42:45	21004998	1.04	0.9505	387.9	387.9	0.0195	0.0195	96.98	
PCB-171	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-173 (C171)	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-172	44:37	18849904	1.05	0.8519	388.4	388.4	0.0217	0.0217	97.11	
PCB-192	44:54	30290999	1.06	1.3459	395.1	395.1	0.0138	0.0138	98.77	
PCB-180	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-193 (C180)	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-191	45:37	29149341	1.05	1.2891	396.9	396.9	0.0144	0.0144	99.24	
PCB-170	46:31	19833085	1.07	1.1865	381.0	381.0	0.0211	0.0211	95.26	
PCB-190	47:02	29063711	1.07	1.3322	383.0	383.0	0.0139	0.0139	95.74	
PCB-189	49:38	40021622	1.05	0.9633	395.6	395.6	0.3673	0.3673	98.90	
S Total Octachlorobiphenyls					4709.7	4709.7	0.5380	0.5380		
D PCB-202L	42:28	5079458	0.91	0.9818	97.4	97.4	0.0159	0.0159	97.43	
* PCB-194L	51:43	7323260	0.91		100.0	100.0				
D PCB-205L	52:11	8638618	0.92	1.1786	100.1	100.1	0.0710	0.0710	100	
PCB-202	42:29	21547219	0.90	1.0359	409.5	409.5	0.0265	0.0265	102	
PCB-201	43:24	19791616	0.91	0.9754	399.5	399.5	0.0281	0.0281	99.87	
PCB-204	44:05	20940493	0.90	1.0485	393.2	393.2	0.0262	0.0262	98.30	
PCB-197	44:19	22095397	0.90	1.1458	379.6	379.6	0.0239	0.0239	94.91	
PCB-200	44:25	20163621	0.92	1.0072	394.1	394.1	0.0272	0.0272	98.53	
PCB-198	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-199 (C198)	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-196	47:53	15393419	0.91	0.7806	388.2	388.2	0.0351	0.0351	97.05	
PCB-203	48:05	18781869	0.91	0.9292	397.9	397.9	0.0295	0.0295	99.48	
PCB-195	49:24	28114967	0.90	0.8263	393.9	393.9	2.181	2.181	98.47	
PCB-194	51:44	32373452	0.89	0.9735	385.0	385.0	1.852	1.852	96.24	
PCB-205	52:13	36524269	0.91	1.0878	388.7	388.7	1.657	1.657	97.17	
S Total Nonachlorobiphenyls					1133.6	1133.6	0.5639	0.5639		
D PCB-208L	49:08	7135804	0.80	0.9576	101.8	101.8	0.2341	0.2341	102	
D PCB-206L	53:56	5087280	0.82	0.6947	100.0	100.0	0.3227	0.3227	100	
PCB-208	49:10	31300386	0.78	1.1374	385.6	385.6	0.5345	0.5345	96.41	
PCB-207	50:05	31656277	0.79	1.3756	376.5	376.5	0.5166	0.5166	94.14	
PCB-206	53:58	25218974	0.79	1.3346	371.4	371.4	0.6407	0.6407	92.86	
D PCB-209L	55:35	4867564	0.71	0.6669	99.7	99.7	0.0649	0.0649	99.67	
DCB Decachlorobiphenyl	55:36	20909699	0.71	1.1004	390.4	390.4	0.0167	0.0167	97.59	
S Polychlorinated biphenyls, Total					80103	80103	1.016	1.016		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L41668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-005
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10499896	4198021	10819	27047	388		
202.0766	11:36	11:36	-1	0.726	3320541	1323401	3105	7762	426	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10518916	3643335	10819	27047	337		
202.0766	13:45	13:46	-1	0.861	3284790	1138975	3105	7762	367	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	52567345	21590493	21610	54025	999		
190.0363	11:36	11:37	-1	1.001	16002054	6532639	6987	17467	935	3.29(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	-1	0.989	51348814	17597324	21610	54025	814		
190.0363	13:36	13:36	-1	0.989	15769122	5303272	6987	17467	759	3.26(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	51380244	17946321	21610	54025	830		
190.0363	13:46	13:47	-1	1.001	15887521	5461066	6987	17467	782	3.23(2.66-3.60)	
PCB-4L											
234.0406	14:01	14:02	-1	0.877	3393758	1102554	615	1537	1793		
236.0376	14:01	14:02	-1	0.877	2167860	702670	180	450	3904	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5411179	1596131	615	1537	2595		
236.0376	15:58	15:59	-1		3346979	1007278	180	450	5596	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.199	20947142	5874636	615	1537	9552		
236.0376	16:48	16:50	-2	1.199	13011177	3675874	180	450	20422	1.61(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-1	1.245	5935483	1491131	615	1537	2425		
236.0376	19:53	19:54	-1	1.245	3639719	917458	180	450	5097	1.63(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	-1	1.001	17125120	5792666	139	347	41674		
223.9974	14:02	14:02	-1	1.001	10765213	3590885	176	440	20403	1.59(1.33-1.79)	
PCB-10											
222.0003	14:12	14:13	-1	1.013	23788672	7684901	139	347	55287		
223.9974	14:12	14:13	-1	1.013	14866896	4745168	176	440	26961	1.60(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.141	25947466	7827851	139	347	56315		
223.9974	15:59	16:00	-1	1.141	16234407	4866647	176	440	27651	1.60(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-1	1.153	25344499	7265656	139	347	52271		
223.9974	16:09	16:10	-2	1.152	15837956	4529524	176	440	25736	1.60(1.33-1.79)	
PCB-6											
222.0003	16:24	16:25	-2	1.170	27732482	8207660	139	347	59048		
223.9974	16:24	16:25	-2	1.170	17247156	5056931	176	440	28733	1.61(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.192	24668749	7089107	139	347	51001		
223.9974	16:42	16:43	-2	1.192	15351789	4393456	176	440	24963	1.61(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.201	28996587	8328197	139	347	59915		
223.9974	16:50	16:50	-1	1.201	18035229	5152470	176	440	29275	1.61(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.927	25213771	6854207	139	347	49311		
223.9974	18:27	18:28	-1	0.927	15800170	4277730	176	440	24305	1.60(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	23488532	6267377	139	347	45089		
223.9974	19:17	19:18	-1	0.970	14664692	3910870	176	440	22221	1.60(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	29162144	7221687	139	347	51955		
223.9974	19:54	19:55	-1	1.001	18121668	4507472	176	440	25611	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1829473	502199	905	2262	555		
269.9986	17:06	17:08	-2	0.840	1708460	470154	1528	3820	308	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		3018197	723962	905	2262	800		
269.9986	20:22	20:23	-1		2744127	692559	1528	3820	453	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8581779	2065110	874	2185	2363		
269.9986	22:37	22:38	-1		8155969	1968392	556	1390	3540	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	32391092	7626916	874	2185	8726		
269.9986	22:55	22:56	-1	1.013	30729436	7307491	556	1390	13143	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	-1	1.189	7573702	1631541	874	2185	1867		
269.9986	26:55	26:55	-1	1.189	7157103	1570970	556	1390	2825	1.06(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	9275969	2592939	66	165	39287		
257.9584	17:08	17:09	-1	1.002	8735123	2454816	79	197	31074	1.06(0.88-1.20)	
PCB-18											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	8919519	2281516	66	165	34568		
257.9584	19:24	19:26	-2	1.135	8419638	2152476	79	197	27247	1.06(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	13533947	3445740	66	165	52208		
257.9584	19:38	19:39	-1	1.148	12826715	3262599	79	197	41299	1.06(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	12241488	3105438	66	165	47052		
257.9584	19:45	19:46	-1	1.155	11698263	2945413	79	197	37284	1.05(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	8226613	2110810	66	165	31982		
257.9584	19:52	19:53	-1	1.162	7815264	1959309	79	197	24801	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	13256398	3275466	66	165	49628		
257.9584	20:23	20:23	-1	1.192	12621033	3130282	79	197	39624	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	32745543	8016693	23154	57885	346		
257.9584	21:38	21:39	-1	1.265	30988031	7632742	22151	55377	345	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	-1	1.274	30315107	7381738	23154	57885	319		
257.9584	21:48	21:48	-1	1.274	29058041	7037873	22151	55377	318	1.04(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	36470489	8333326	23154	57885	360		
257.9584	22:20	22:21	-1	0.830	34672568	7829965	22151	55377	353	1.05(0.88-1.20)	
PCB-31											
255.9613	22:39	22:40	-1	0.842	32476974	7710222	23154	57885	333		
257.9584	22:39	22:40	-1	0.842	31254193	7419289	22151	55377	335	1.04(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	34499171	8137093	23154	57885	351		
257.9584	23:34	23:35	-1	0.876	32697523	7673610	22151	55377	346	1.06(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	31347288	6777980	23154	57885	293		
257.9584	25:08	25:09	-1	0.934	29995275	6531454	22151	55377	295	1.05(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	33790805	7562066	23154	57885	327		
257.9584	25:29	25:30	-1	0.947	32143311	7157383	22151	55377	323	1.05(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	31803876	7164978	23154	57885	309		
257.9584	26:04	26:05	-1	0.969	30144606	6756682	22151	55377	305	1.06(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	-1	0.986	32910785	7272006	23154	57885	314		
257.9584	26:32	26:32	-1	0.986	32093687	6905650	22151	55377	312	1.03(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	32362844	7155081	23154	57885	309		
257.9584	26:56	26:57	-1	1.001	30917415	6830742	22151	55377	308	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	-1	0.816	1405547	341568	84	210	4066		
303.9597	20:12	20:12	-1	0.816	1757362	428899	6	15	71483	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	-1		3693083	829495	597	1492	1389		
303.9597	24:46	24:46	-1		4571815	1012108	649	1622	1559	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	18813935	3902461	597	1492	6537		
303.9597	32:41	32:41	0	0.971	23495565	4853340	649	1622	7478	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4569478	932159	597	1492	1561		
303.9597	33:40	33:41	-1	1.360	5765983	1185814	649	1622	1827	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	-1	1.382	5138114	984600	597	1492	1649		
303.9597	34:14	34:14	-1	1.382	6312455	1189506	649	1622	1833	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	7283061	1843939	51	127	36156		
291.9194	20:12	20:13	-1	1.000	8973888	2249882	144	360	15624	0.81(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-45											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	12780266	3004695	11985	29962	251		
291.9194	23:21	23:22	-1	1.157	16054240	3753956	15858	39645	237	0.80(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.227	16997835	3818410	11985	29962	319		
291.9194	24:46	24:47	-1	1.227	21356198	4841032	15858	39645	305	0.80(0.65-0.89)	
PCB-43											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.265	15119844	3404443	11985	29962	284		
291.9194	25:32	25:33	-1	1.265	19152124	4315899	15858	39645	272	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.302	14647872	3288662	11985	29962	274		
291.9194	26:18	26:18	-1	1.302	18468357	4131349	15858	39645	261	0.79(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.337	20703479	4478816	11985	29962	374		
291.9194	27:00	27:01	-1	1.337	26363441	5720820	15858	39645	361	0.79(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	-1	0.827	20184549	4428709	11985	29962	370		
291.9194	27:51	27:51	-1	0.827	25375260	5665296	15858	39645	357	0.80(0.65-0.89)	
PCB-68											
289.9224	28:08	28:09	-1	0.836	23058556	4670938	11985	29962	390		
291.9194	28:08	28:09	-1	0.836	29656263	5939346	15858	39645	375	0.78(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	19971461	4310538	11985	29962	360		
291.9194	28:33	28:34	-1	0.848	25522237	5486100	15858	39645	346	0.78(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	24841978	5171706	11985	29962	432		
291.9194	28:47	28:48	-1	0.855	31574912	6628287	15858	39645	418	0.79(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	25918946	5245140	11985	29962	438		
291.9194	28:57	28:58	-1	0.860	32897827	6710193	15858	39645	423	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	0	0.868	20163244	4147399	11985	29962	346		
291.9194	29:13	29:14	0	0.868	25499886	5242981	15858	39645	331	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-66											
289.9224	29:53	29:53	-1	0.887	23297327	4782605	11985	29962	399		
291.9194	29:53	29:53	-1	0.887	29683676	6147242	15858	39645	388	0.78(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.892	23868544	5020534	11985	29962	419		
291.9194	30:03	30:03	0	0.892	30361740	6401441	15858	39645	404	0.79(0.65-0.89)	
PCB-56											
289.9224	30:33	30:33	-1	0.907	22138128	4649879	11985	29962	388		
291.9194	30:33	30:33	-1	0.907	28113506	5940457	15858	39645	375	0.79(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	-1	0.914	20162897	4129204	11985	29962	345		
291.9194	30:46	30:46	-1	0.914	25576853	5248560	15858	39645	331	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	24248510	4869692	11985	29962	406		
291.9194	31:10	31:11	-1	0.926	30455486	6161428	15858	39645	389	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	25881910	4980417	11985	29962	416		
291.9194	32:41	32:42	-1	0.971	32884181	6368136	15858	39645	402	0.79(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	20252892	4013245	11985	29962	335		
291.9194	33:15	33:15	0	0.988	25883996	5184409	15858	39645	327	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	18823030	3711092	11985	29962	310		
291.9194	33:41	33:42	-1	1.001	23908378	4671043	15858	39645	295	0.79(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	19939084	4035093	11985	29962	337		
291.9194	34:15	34:16	-1	1.001	25305487	5095681	15858	39645	321	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4115986	911822	113	282	8069		
339.9178	25:42	25:42	-1	0.813	2556017	571161	35	87	16319	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	11552735	2434662	113	282	21546		
339.9178	28:40	28:41	-1	1.116	7254206	1533843	35	87	43824	1.59(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3450720	735833	113	282	6512		
339.9178	31:36	31:37	-1		2182830	457789	35	87	13080	1.58(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	17118191	3425571	113	282	30315		
339.9178	34:17	34:17	0	1.085	10705175	2157409	35	87	61640	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	6356450	1285843	5518	13795	233		
339.9178	36:15	36:15	0	1.147	4021253	802670	3723	9307	216	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6609999	1288487	5518	13795	234		
339.9178	36:34	36:34	0	1.157	4130249	804055	3723	9307	216	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	6505303	1259091	5518	13795	228		
339.9178	37:05	37:06	-1	1.173	4054221	780103	3723	9307	210	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6192666	1207667	5518	13795	219		
339.9178	37:44	37:45	0	1.194	3904195	766070	3723	9307	206	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6530367	1264882	5518	13795	229		
339.9178	39:13	39:14	-1		4064988	784130	3723	9307	211	1.61(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	6183273	1168925	5518	13795	212		
339.9178	40:50	40:50	0	1.292	3920029	739706	3723	9307	199	1.58(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	16562646	3648861	176	440	20732		
327.8775	25:43	25:44	-1	1.001	10429147	2298692	72	180	31926	1.59(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-1	1.015	17827479	3965370	176	440	22531		
327.8775	26:05	26:06	-1	1.015	11297278	2491538	72	180	34605	1.58(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	14134986	3012600	176	440	17117		
327.8775	28:01	28:02	-1	1.091	8891276	1894090	72	180	26307	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	11807228	2514482	176	440	14287		
327.8775	28:15	28:16	-1	1.100	7486459	1593487	72	180	22132	1.58(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	13331631	2886470	176	440	16400		
327.8775	28:41	28:42	-1	1.117	8411821	1793743	72	180	24913	1.58(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	11604519	2389938	176	440	13579		
327.8775	29:46	29:47	-1	1.159	7338097	1530570	72	180	21258	1.58(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	12282608	2577865	176	440	14647		
327.8775	30:15	30:16	-1	1.177	7698116	1591552	72	180	22105	1.60(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	20949740	4299713	176	440	24430		
327.8775	30:40	30:41	-1	1.194	13115189	2699710	72	180	37496	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	13645980	2811326	176	440	15973		
327.8775	31:02	31:03	-1	0.856	8612099	1789982	72	180	24861	1.58(1.32-1.78)	
PCB-90											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	22203726	4464855	176	440	25368		
327.8775	32:19	32:20	-1	1.258	14041015	2797768	72	180	38858	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-110											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-82											
325.8804	33:54	33:55	-1	1.320	13353583	2566933	176	440	14585		
327.8775	33:54	33:55	-1	1.320	8352241	1610559	72	180	22369	1.60(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	19497058	3905402	176	440	22190		
327.8775	34:19	34:19	0	1.336	12352811	2477599	72	180	34411	1.58(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.354	23386560	4679515	176	440	26588		
327.8775	34:46	34:47	-1	1.353	14834867	2964250	72	180	41170	1.58(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	29263623	5567936	23384	58460	238		
327.8775	36:09	36:09	0	1.407	18905765	3537259	15078	37695	235	1.55(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	26699152	5186378	23384	58460	222		
327.8775	36:16	36:16	0	1.001	17027503	3294302	15078	37695	218	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	26537350	5306112	23384	58460	227		
327.8775	36:22	36:23	-1	1.004	16965814	3365227	15078	37695	223	1.56(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	30206837	5637865	23384	58460	241		
327.8775	36:35	36:36	-1	1.000	19281004	3593433	15078	37695	238	1.57(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	23233300	4707830	23384	58460	201		
327.8775	36:56	36:56	0	1.010	14838813	2965557	15078	37695	197	1.57(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	27187817	5064584	23384	58460	217		
327.8775	37:07	37:08	-1	1.000	17422366	3235541	15078	37695	215	1.56(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	28114444	5318905	23384	58460	227		
327.8775	37:46	37:46	0	1.001	17757681	3322599	15078	37695	220	1.58(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	28164286	5242721	23384	58460	224		
327.8775	39:14	39:15	0	1.040	17911835	3295039	15078	37695	219	1.57(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.000	27357863	4711472	23384	58460	201		
327.8775	40:51	40:52	-1	1.000	17303152	2992269	15078	37695	198	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.791	3272192	675452	81	202	8339		
373.8788	31:22	31:23	-1	0.791	2619986	560781	100	250	5608	1.25(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	15384626	3011029	2447	6117	1230		
373.8788	38:27	38:27	0	0.901	11990178	2361961	2020	5050	1169	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4021576	761724	2447	6117	311		
373.8788	39:41	39:41	0		3133955	597812	2020	5050	296	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4551409	893154	2447	6117	365		
373.8788	41:56	41:56	0	0.982	3500550	684821	2020	5050	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4894808	949592	2447	6117	388		
373.8788	42:42	42:42	0	1.076	3853738	748063	2020	5050	370	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4916242	916681	2447	6117	375		
373.8788	47:05	47:05	0	1.186	3845463	728494	2020	5050	361	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	12402388	2564079	62	155	41356		
361.8385	31:24	31:25	-1	1.001	9849342	2028692	77	192	26347	1.26(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	12749448	2632383	62	155	42458		
361.8385	31:35	31:36	0	1.007	10086981	2076319	77	192	26965	1.26(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	13352317	2720812	62	155	43884		
361.8385	31:45	31:46	-1	1.012	10538539	2149647	77	192	27917	1.27(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	13269139	2656693	62	155	42850		
361.8385	32:07	32:08	-1	1.024	10474610	2087707	77	192	27113	1.27(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	-1	1.033	12720068	2589014	62	155	41758		
361.8385	32:25	32:25	-1	1.033	9952343	2017679	77	192	26204	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	10032646	2019314	62	155	32570		
361.8385	33:56	33:57	-1	1.082	7924748	1602259	77	192	20809	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	-1	1.108	10765269	2174852	62	155	35078		
361.8385	34:47	34:47	-1	1.108	8513190	1703607	77	192	22125	1.26(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	10112340	2006757	62	155	32367		
361.8385	35:05	35:06	-1	1.118	8027032	1594884	77	192	20713	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	14367703	2800912	7018	17545	399		
361.8385	36:15	36:15	-1	1.155	11438938	2238869	4599	11497	487	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	14279654	2850607	7018	17545	406		
361.8385	36:23	36:24	-1	1.160	11447638	2289825	4599	11497	498	1.25(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	13661131	2714090	7018	17545	387		
361.8385	36:42	36:43	-1	1.170	10942845	2164599	4599	11497	471	1.25(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	15673775	3034629	7018	17545	432		
361.8385	37:13	37:14	-1	1.186	12573318	2407911	4599	11497	524	1.25(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	19300636	3808288	7018	17545	543		
361.8385	37:37	37:37	0	0.881	15287853	3022284	4599	11497	657	1.26(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	18188179	3575888	7018	17545	510		
361.8385	37:52	37:52	-1	0.887	14560172	2883285	4599	11497	627	1.25(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	21251579	4230862	7018	17545	603		
361.8385	37:59	38:00	0	0.890	16862245	3346103	4599	11497	728	1.26(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	16194557	2920342	7018	17545	416		
361.8385	38:40	38:41	-1	0.905	12869976	2334490	4599	11497	508	1.26(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	13116472	2604384	7018	17545	371		
361.8385	39:04	39:05	-1	0.915	10413690	2054855	4599	11497	447	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	14331117	2927825	7018	17545	417		
361.8385	39:18	39:18	0	0.920	11466179	2347456	4599	11497	510	1.25(1.05-1.43)	
PCB-164											
359.8415	39:25	39:26	-1	0.923	19991096	3736989	7018	17545	532		
361.8385	39:25	39:26	-1	0.923	15763552	2931595	4599	11497	637	1.27(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	24273259	4495028	7018	17545	640		Ma
361.8385	40:06	40:07	0	0.939	19147696	3534956	4599	11497	769	1.27(1.05-1.43)	M
PCB-128											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	25758437	4981564	7018	17545	710		
361.8385	41:58	41:58	0	0.983	20599018	3902089	4599	11497	848	1.25(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	23165310	4172381	7018	17545	595		
361.8385	42:15	42:15	0	0.990	18519485	3308080	4599	11497	719	1.25(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	21086036	4067502	7018	17545	580		
361.8385	42:43	42:44	0	1.001	16830898	3209669	4599	11497	698	1.25(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	22284432	3935033	7018	17545	561		
361.8385	47:05	47:06	-1	1.000	17462401	3105432	4599	11497	675	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3642228	723802	100	250	7238		
407.8398	37:06	37:07	-1	0.820	3363987	669566	136	340	4923	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	10456618	1989208	100	250	19892		
407.8398	40:09	40:10	-1	0.887	9708464	1866869	136	340	13727	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2744400	512502	100	250	5125		
407.8398	45:15	45:15	0		2565433	482035	136	340	3544	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2233737	415377	100	250	4154		
407.8398	46:30	46:30	0	1.028	2153085	405266	136	340	2980	1.04(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5405857	996635	1973	4932	505		
407.8398	49:36	49:37	-1	1.097	5096346	946628	2013	5032	470	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	15894739	3132976	11	27	284816		
395.7995	37:07	37:08	-1	1.001	14991318	2987713	71	177	42080	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	16030052	3057679	11	27	277971		
395.7995	37:27	37:28	-1	1.010	15100598	2875089	71	177	40494	1.06(0.89-1.21)	
PCB-184											
393.8025	37:59	38:00	0	1.024	15965361	3088111	11	27	280737		
395.7995	37:59	38:00	0	1.024	15052933	2938274	71	177	41384	1.06(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	13860308	2648177	11	27	240743		
395.7995	38:20	38:21	-1	1.033	13147325	2536184	71	177	35721	1.05(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	17015723	3231270	11	27	293752		
395.7995	38:48	38:48	0	1.046	16147959	3080332	71	177	43385	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	10411544	2012862	11	27	182988		
395.7995	40:10	40:11	-1	1.083	9903298	1922922	71	177	27083	1.05(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	10849325	2059997	11	27	187273		
395.7995	40:48	40:49	-1	1.100	10371089	1959556	71	177	27599	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	12824617	2477324	11	27	225211		
395.7995	41:05	41:05	0	1.107	12164702	2335192	71	177	32890	1.05(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	0	1.113	10977177	2063310	11	27	187574		
395.7995	41:17	41:18	0	1.113	10315673	1969940	71	177	27746	1.06(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		Ma
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		M
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	11163861	2131369	11	27	193761		
395.7995	41:56	41:56	0	1.130	10619308	2010855	71	177	28322	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	11137128	1983115	11	27	180283		
395.7995	42:22	42:22	0	1.142	10573626	1894997	71	177	26690	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	10730603	2042497	11	27	185682		
395.7995	42:45	42:45	0	1.152	10274395	1968457	71	177	27725	1.04(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	9666253	1881153	11	27	171014		
395.7995	44:37	44:37	0	0.899	9183651	1768963	71	177	24915	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	15562900	2937197	11	27	267018		
395.7995	44:54	44:54	0	0.905	14728099	2739160	71	177	38580	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	14935038	2766774	11	27	251525		
395.7995	45:37	45:37	0	0.920	14214303	2633578	71	177	37093	1.05(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	10232586	1870309	11	27	170028		
395.7995	46:31	46:32	-1	0.938	9600499	1755081	71	177	24719	1.07(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	15017752	2773774	11	27	252161		
395.7995	47:02	47:02	0	0.948	14045959	2624209	71	177	36961	1.07(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	20534056	3848208	1643	4107	2342		
395.7995	49:38	49:38	0	1.001	19487566	3634362	1107	2767	3283	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2418394	446788	30	75	14893		
441.8008	42:28	42:28	1	0.821	2661064	508757	32	80	15899	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3485452	632444	278	695	2275		
441.8008	51:43	51:43	0		3837808	688713	164	410	4199	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4129550	754744	278	695	2715		
441.8008	52:11	52:11	0	1.009	4509068	812981	164	410	4957	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	10202791	1921272	47	117	40878		
429.7606	42:29	42:29	0	1.001	11344428	2160861	58	145	37256	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	9429617	1790526	47	117	38096		
429.7606	43:24	43:25	0	1.022	10361999	1935083	58	145	33364	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	9940326	1884926	47	117	40105		
429.7606	44:05	44:05	0	1.038	11000167	2083443	58	145	35921	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	10467948	1945914	47	117	41402		
429.7606	44:19	44:19	0	1.044	11627449	2198335	58	145	37902	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	9646190	1851944	47	117	39403		
429.7606	44:25	44:25	0	1.046	10517431	2027054	58	145	34949	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	7330695	1374396	47	117	29242		
429.7606	47:53	47:53	0	0.917	8062724	1508186	58	145	26003	0.91(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	8974073	1665288	47	117	35432		
429.7606	48:05	48:05	0	0.921	9807796	1823811	58	145	31445	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	13278629	2435810	1197	2992	2035		
429.7606	49:24	49:23	1	0.947	14836338	2712844	10107	25267	268	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	15278609	2814671	1197	2992	2351		
429.7606	51:44	51:44	0	0.991	17094843	3126885	10107	25267	309	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	17359047	3148703	1197	2992	2630		
429.7606	52:13	52:13	0	1.000	19165222	3522416	10107	25267	349	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3160520	579728	635	1587	913		
475.7619	49:08	49:09	0	0.950	3975284	728325	550	1375	1324	0.80(0.65-0.89)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:56	53:57	0	1.043	2295828	414632	635	1587	653		
475.7619	53:56	53:57	0	1.043	2791452	515362	550	1375	937	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	13762182	2600944	1799	4497	1446		
463.7216	49:10	49:10	0	1.001	17538204	3273965	1382	3455	2369	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	13947336	2590680	1799	4497	1440		
463.7216	50:05	50:05	0	1.019	17708941	3285222	1382	3455	2377	0.79(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	11132917	2038968	1799	4497	1133		
463.7216	53:58	53:58	0	1.000	14086057	2581506	1382	3455	1868	0.79(0.65-0.89)	
PCB-209L											
507.7258	55:35	55:34	1	1.075	2023837	339841	158	395	2151		
509.7229	55:34	55:34	0	1.075	2843727	486553	71	177	6853	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	8716853	1501897	46	115	32650		
497.6826	55:36	55:36	0	1.000	12192846	2098977	15	37	139932	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L41668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

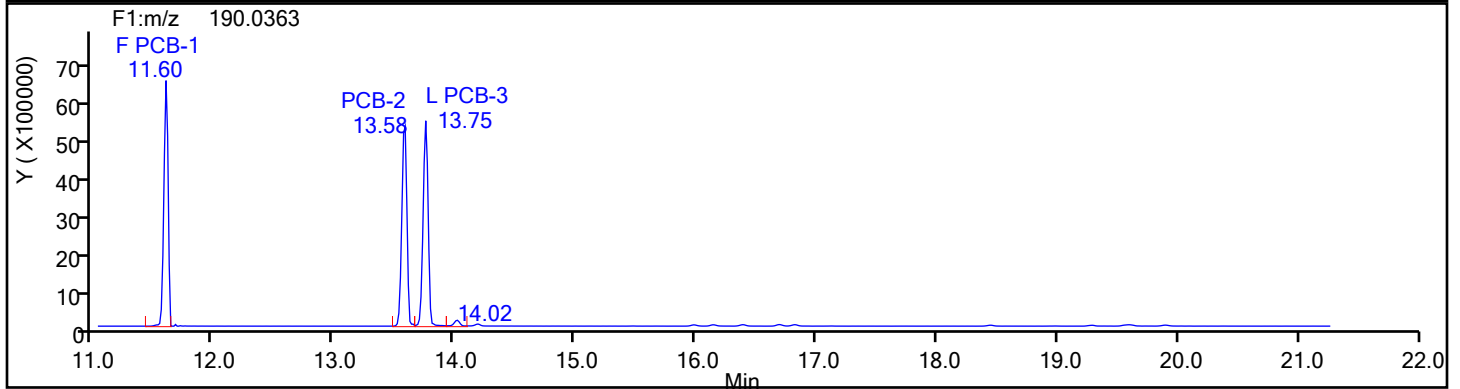
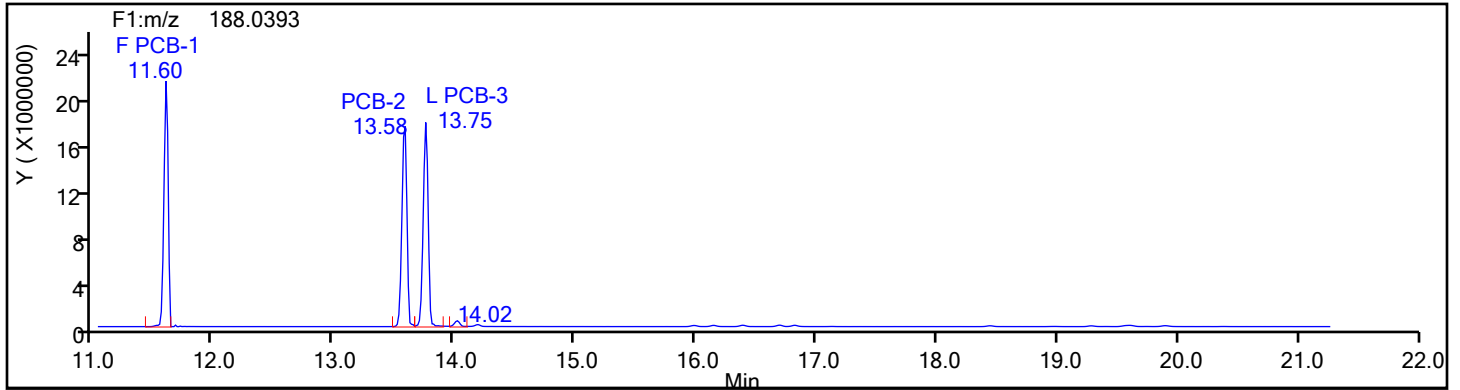
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Sample Line#: 5

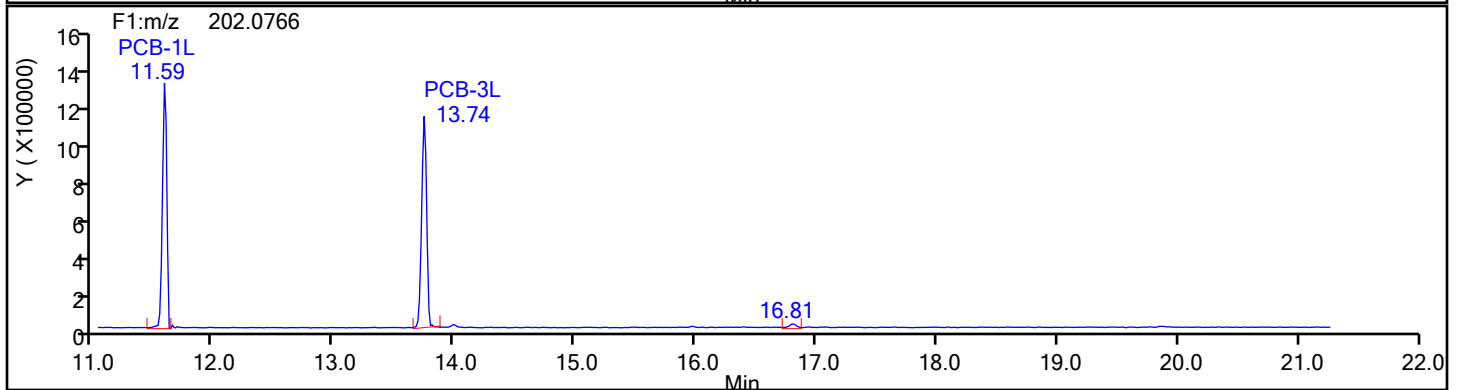
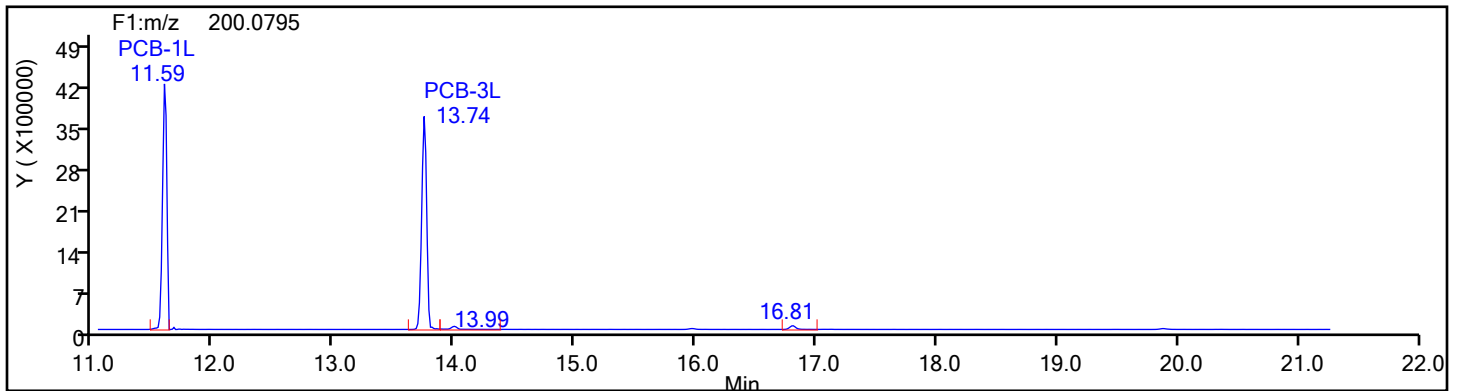
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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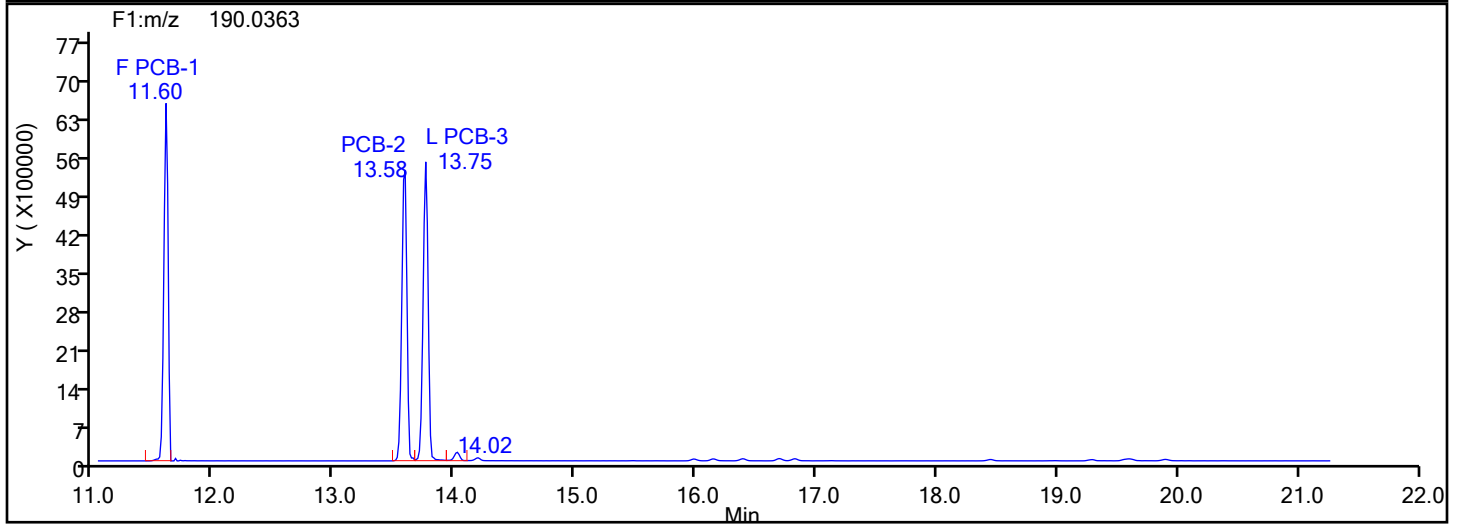
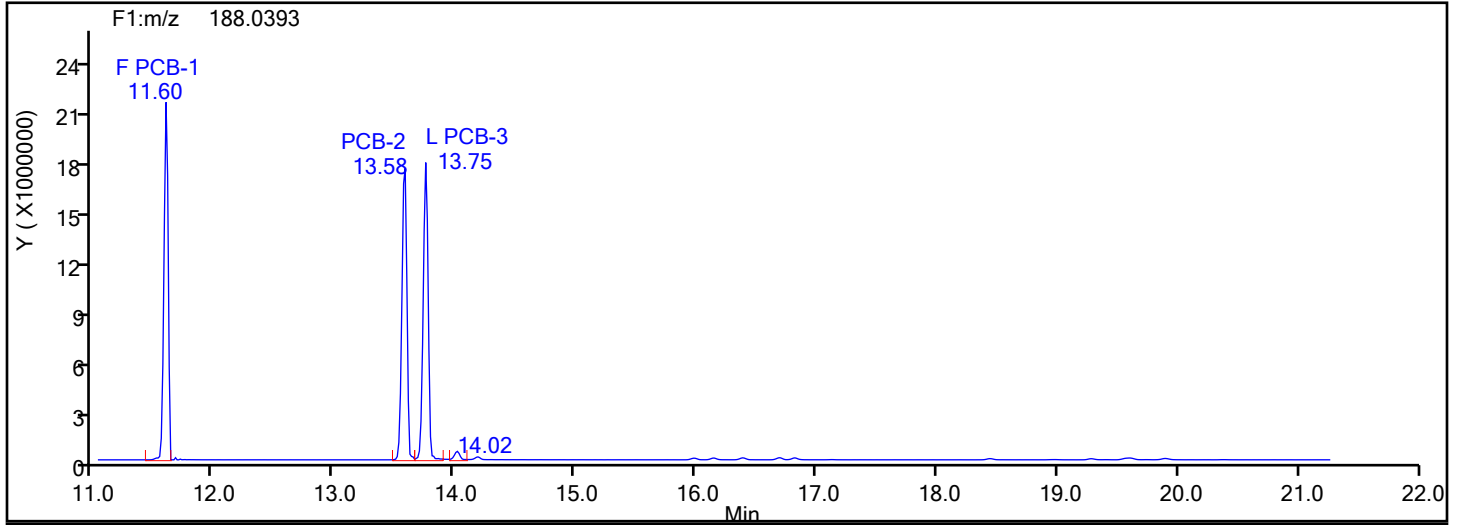
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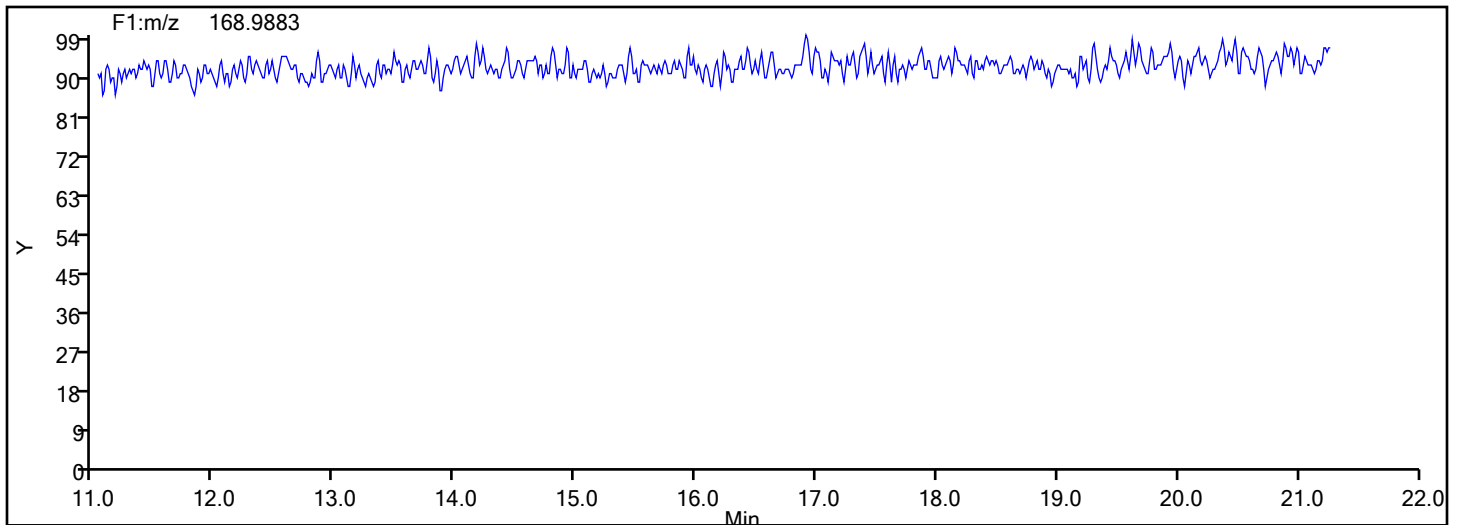
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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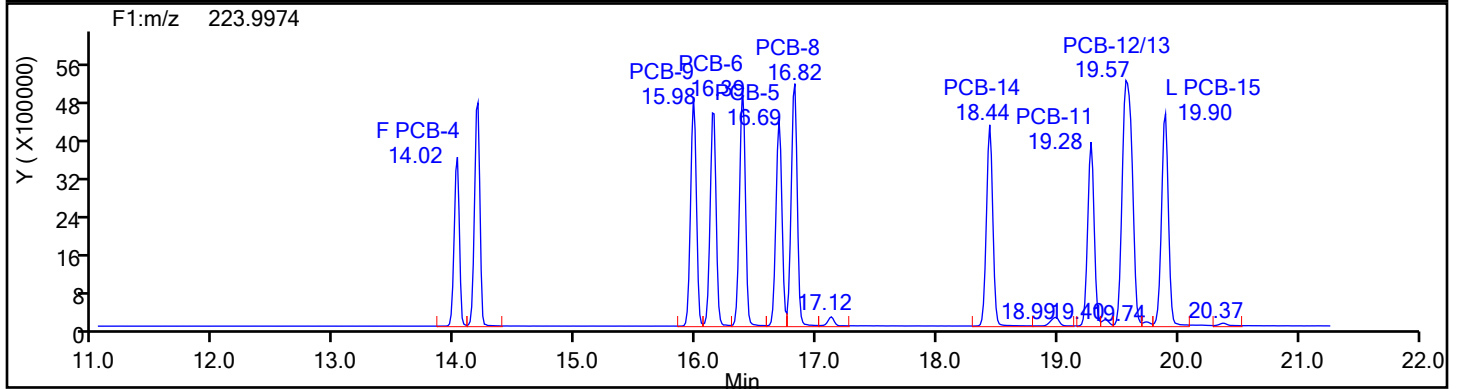
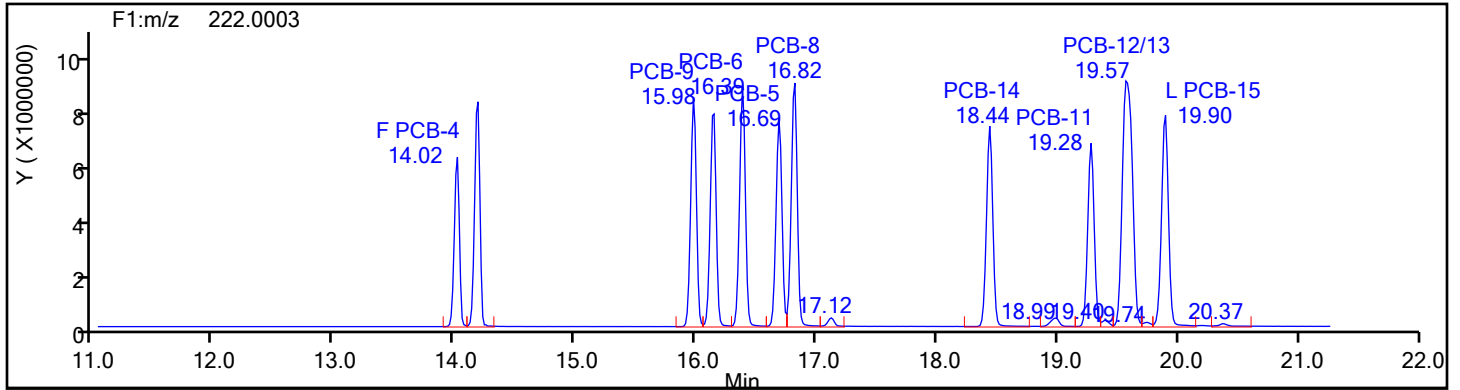
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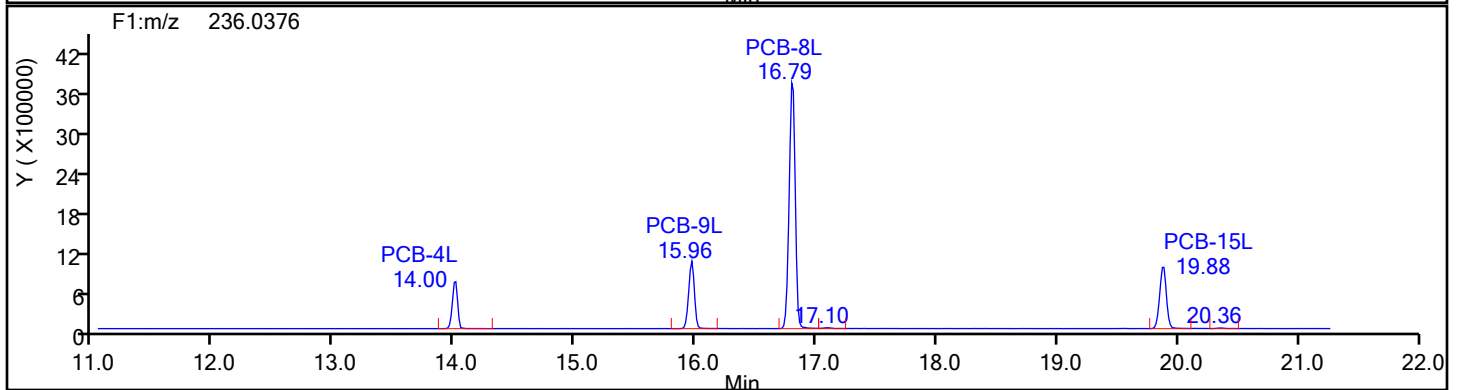
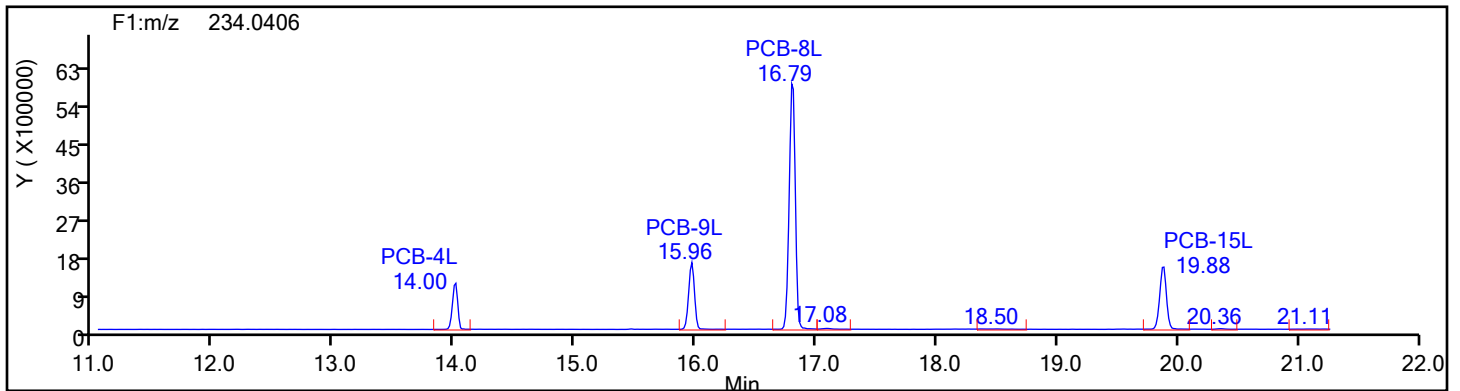
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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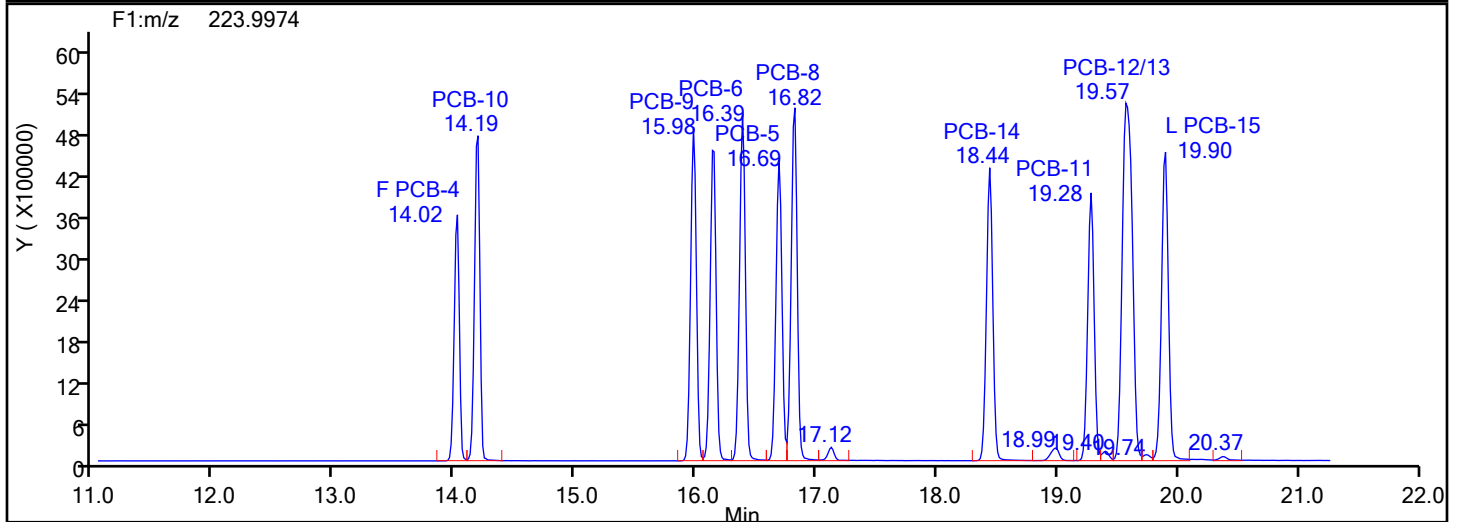
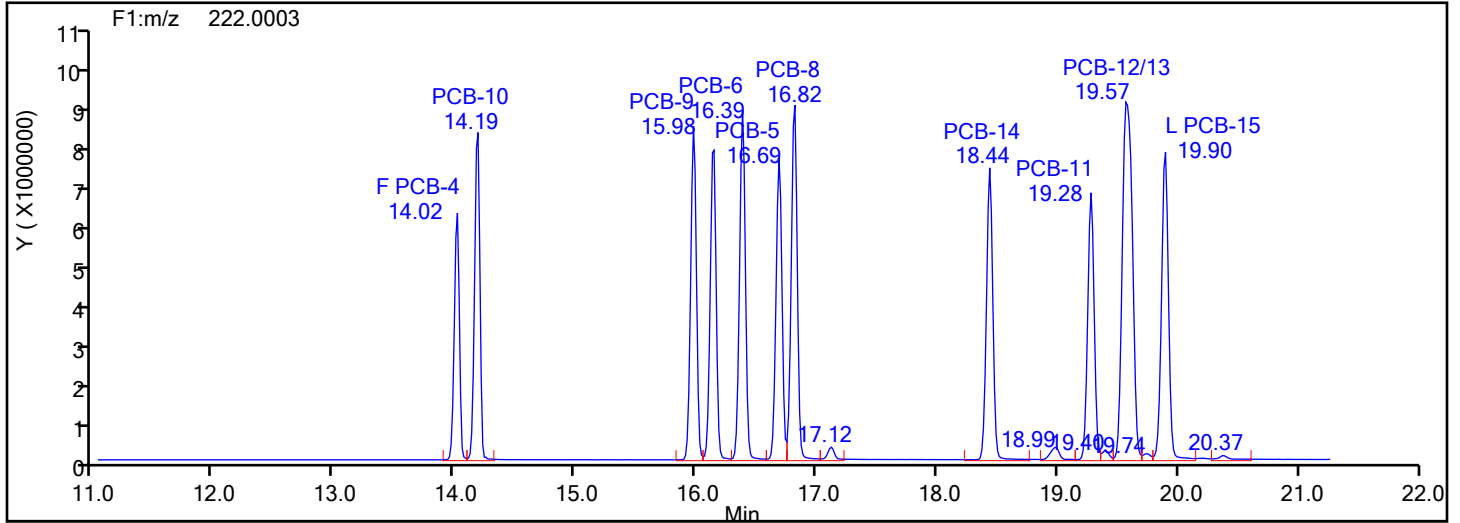
Worklist#: 87130

Sample Line#: 5

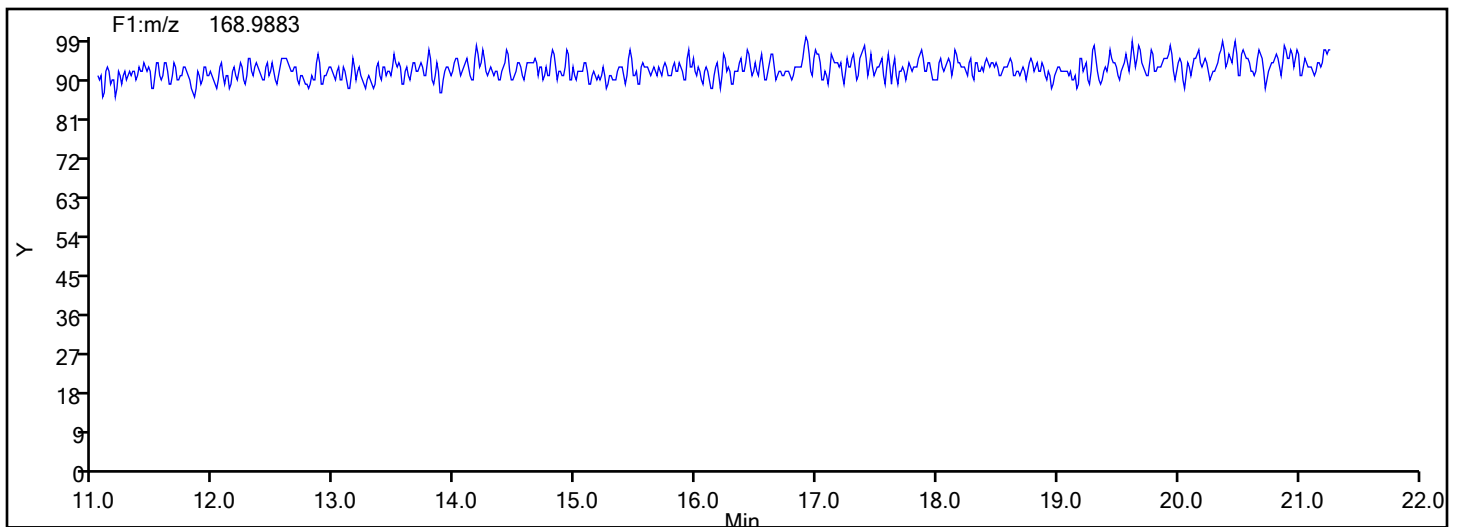
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

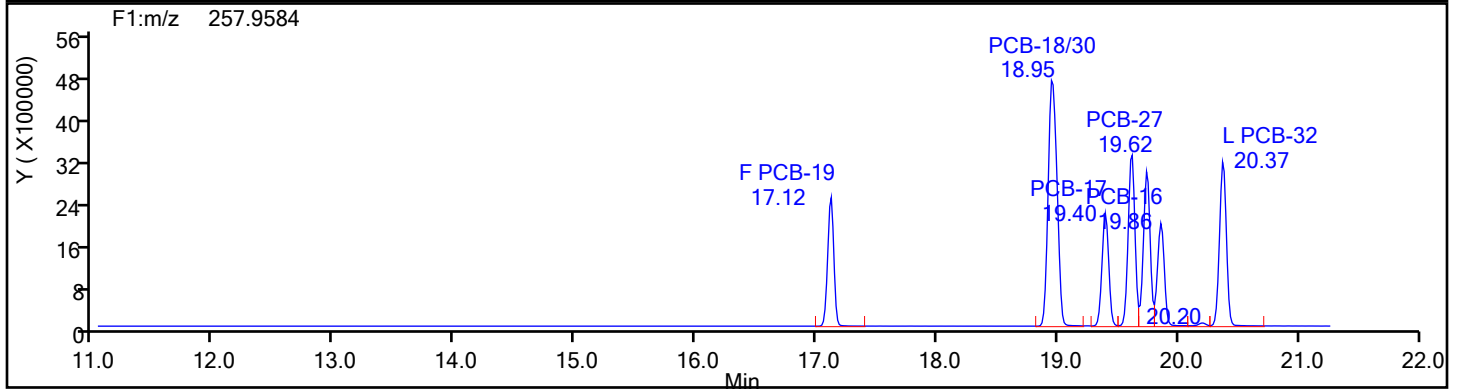
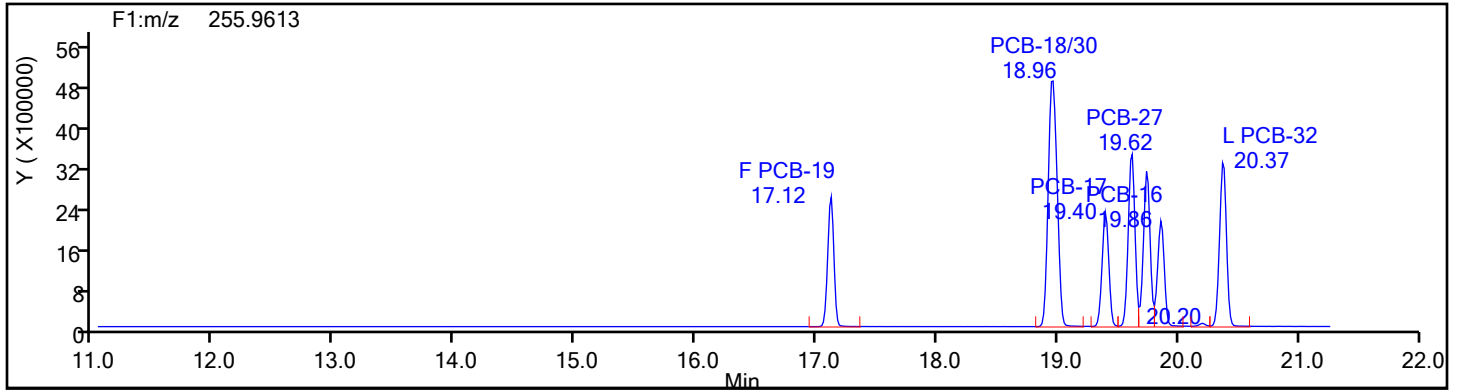
Worklist#: 87130

Sample Line#: 5

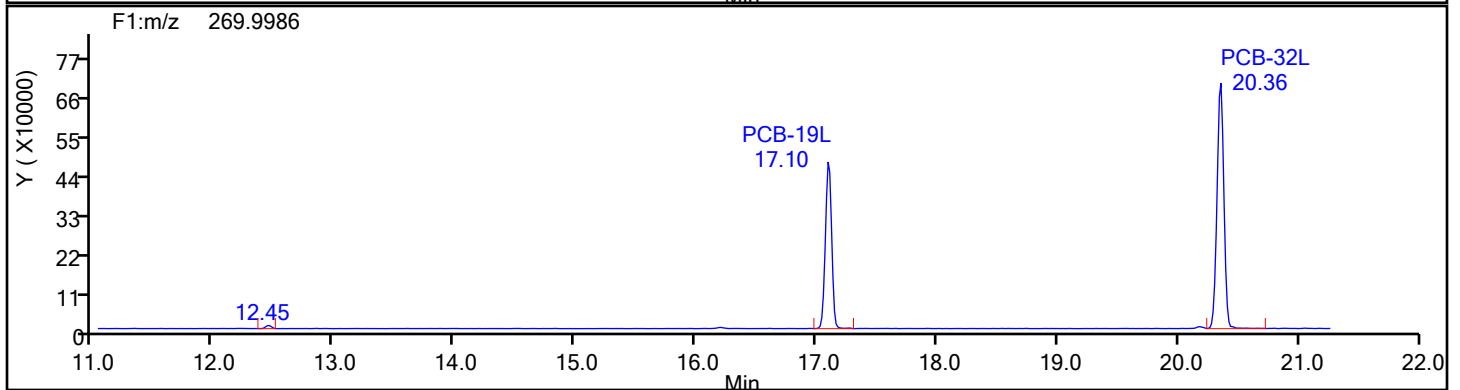
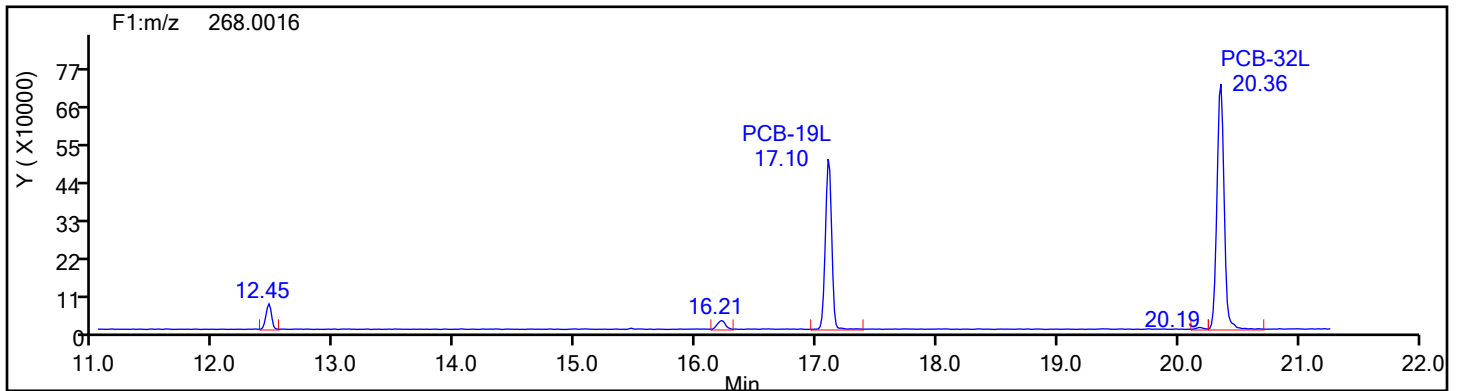
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

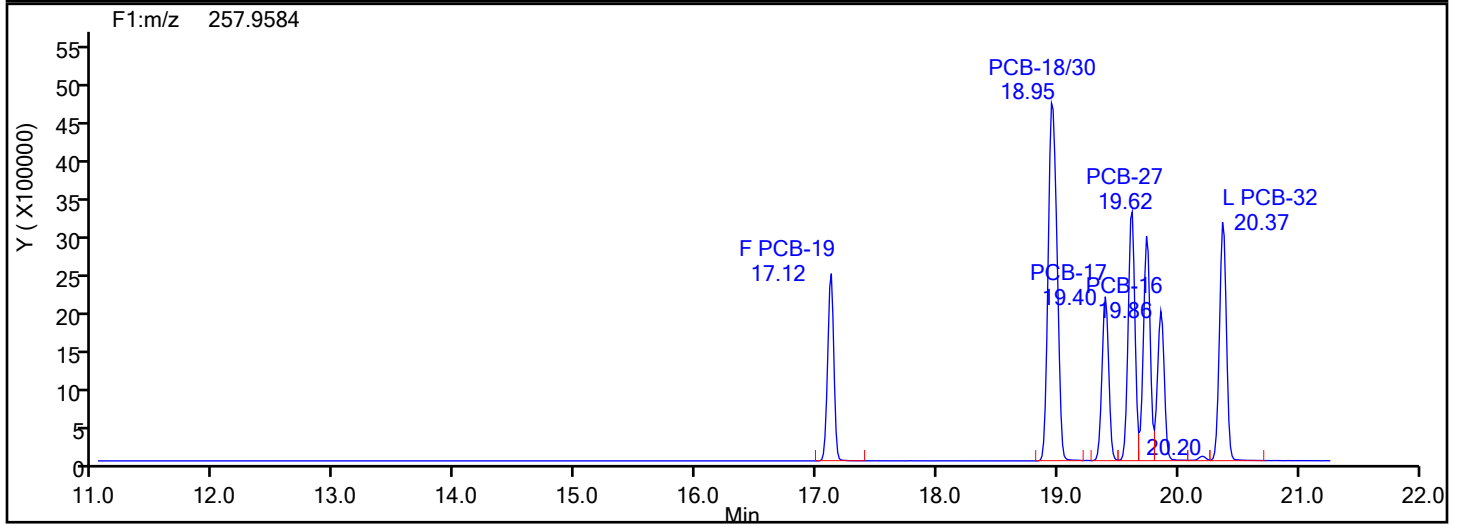
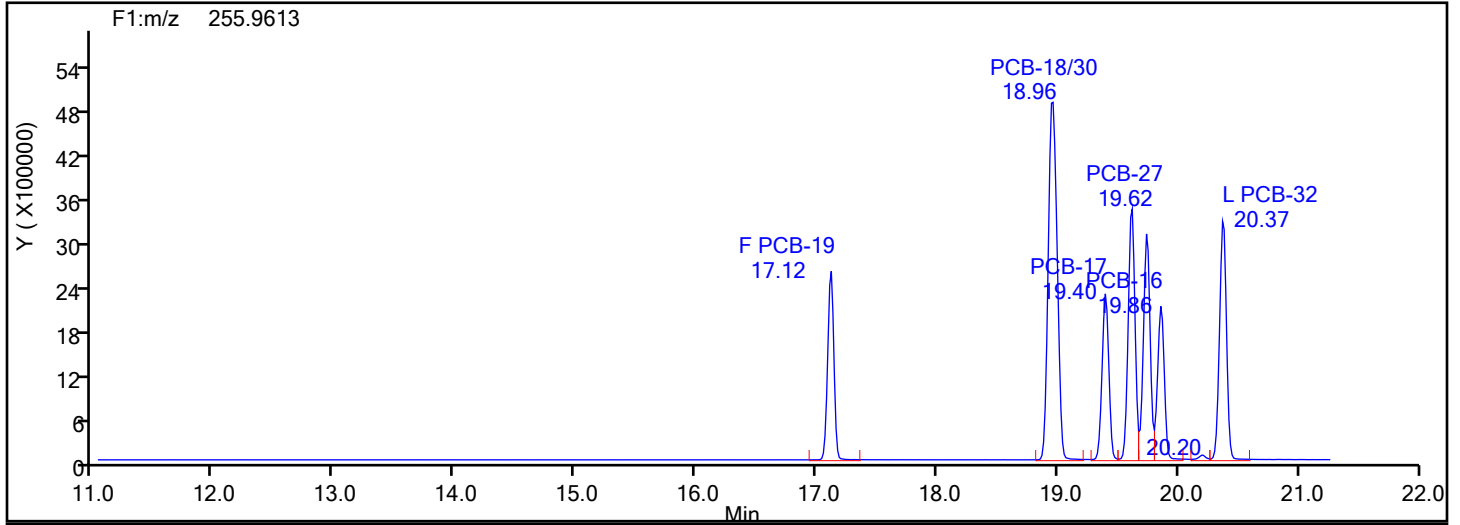


TriPCB F1 Standards

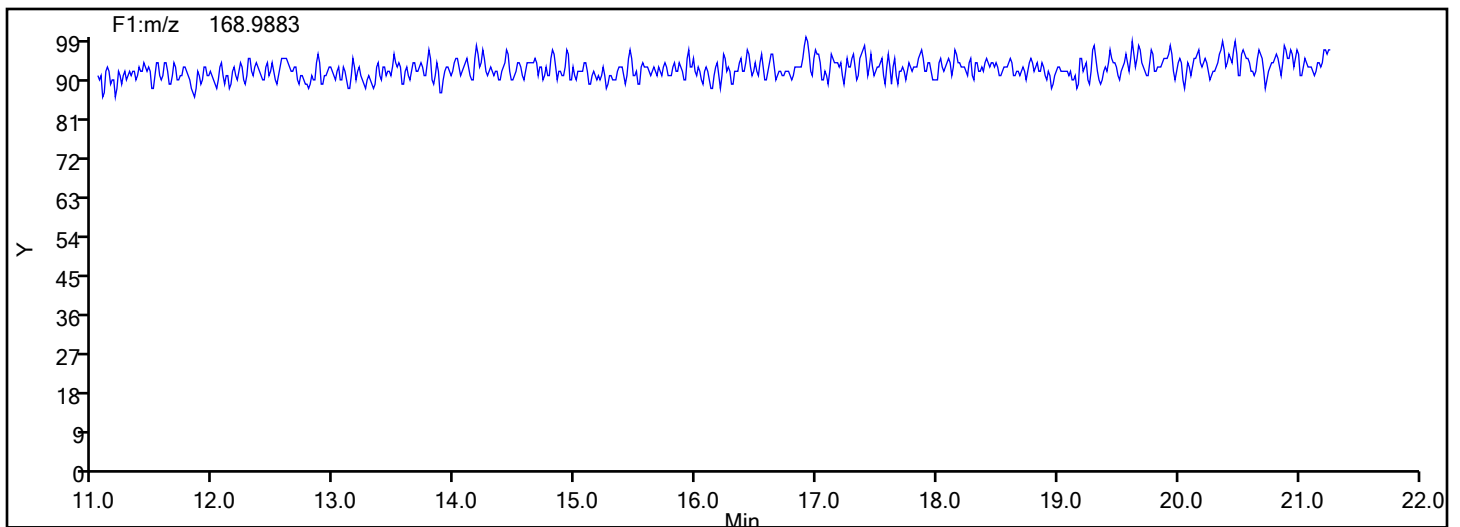


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

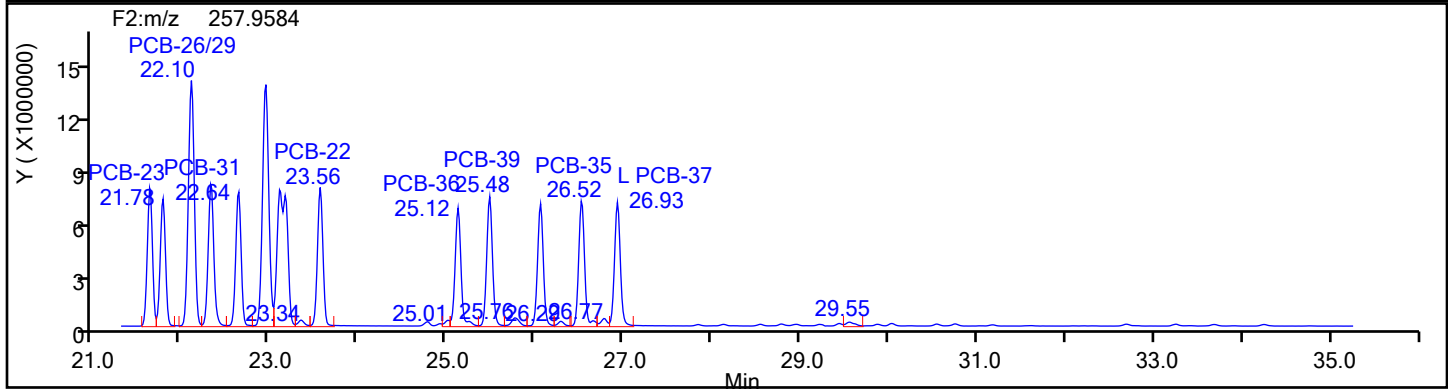
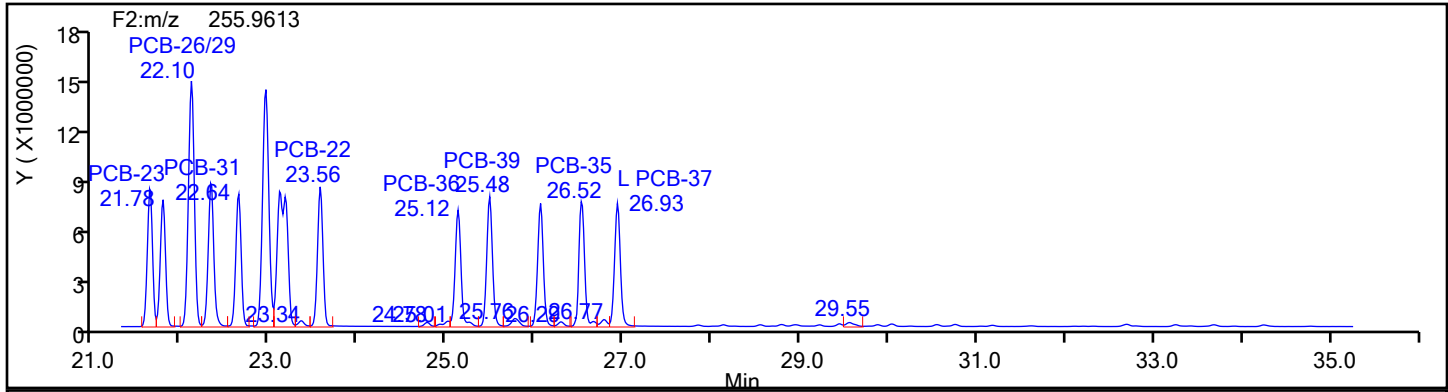
Worklist#: 87130

Sample Line#: 5

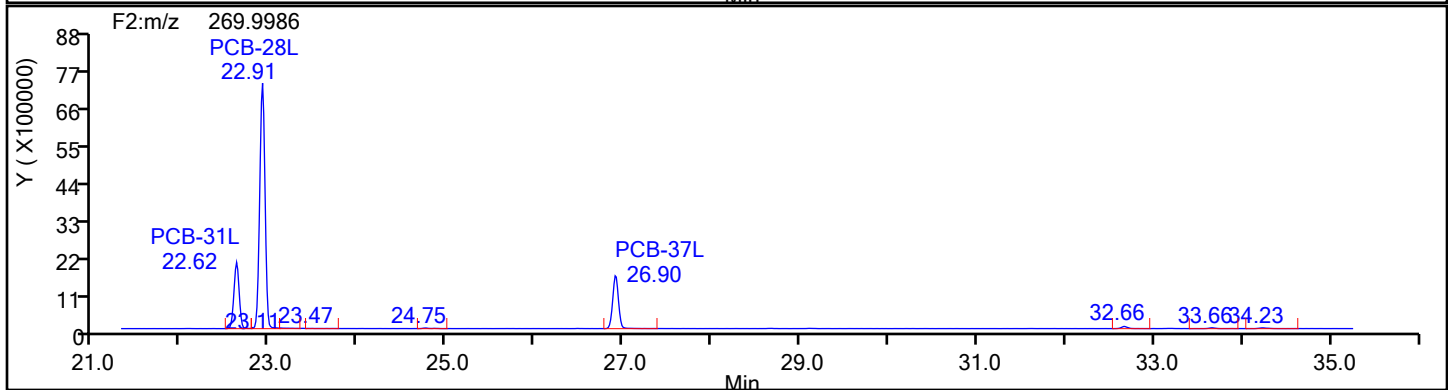
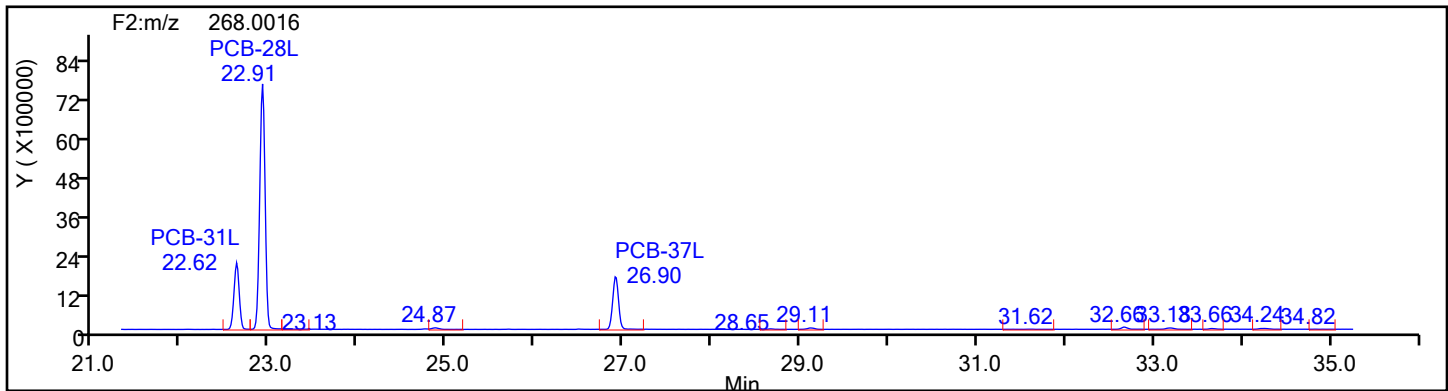
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

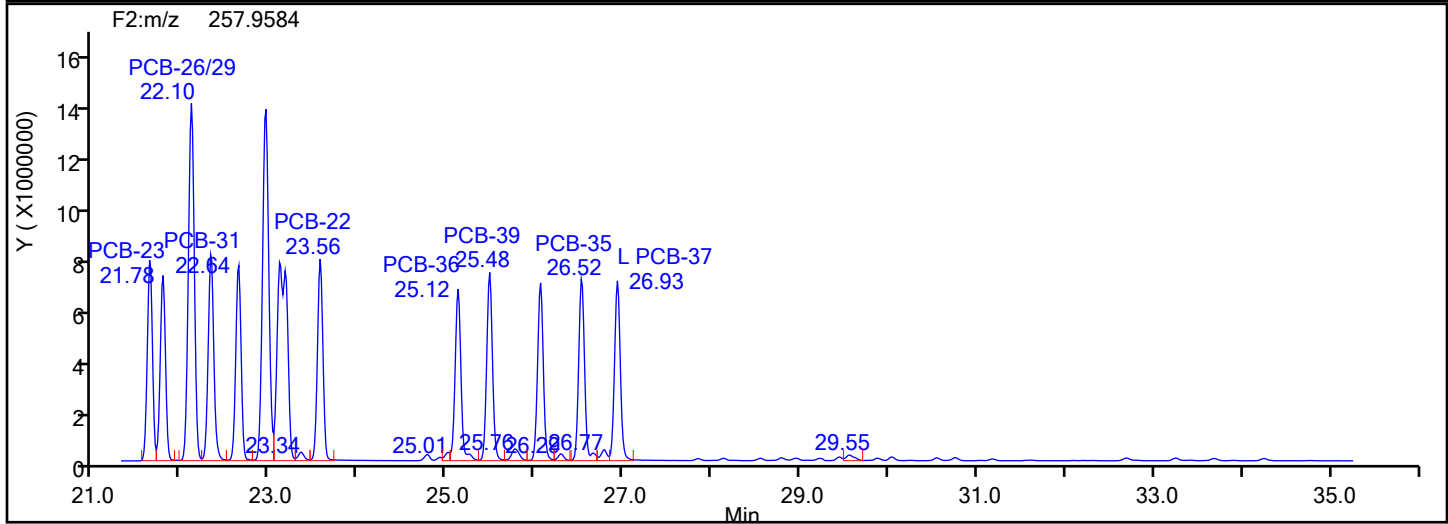
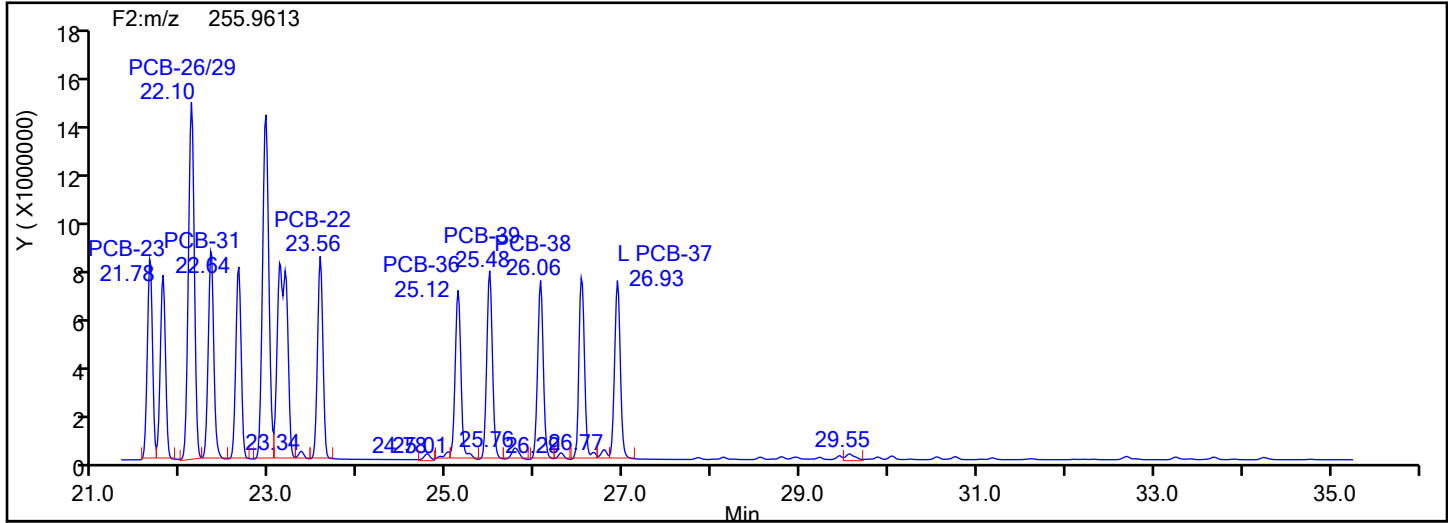
Worklist#: 87130

Sample Line#: 5

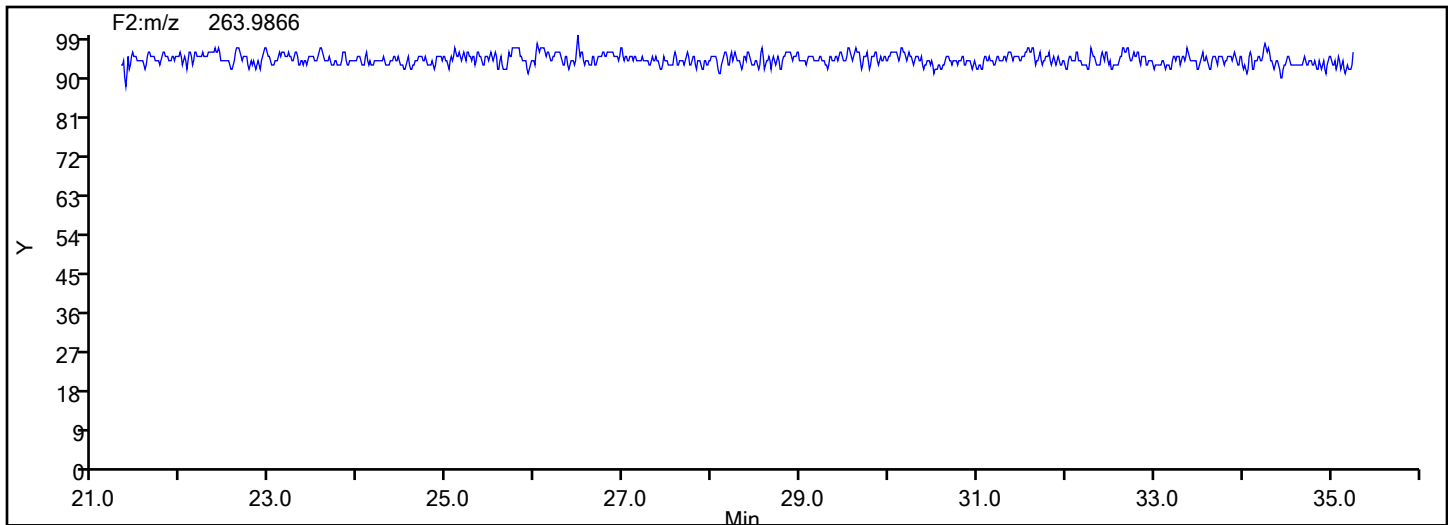
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

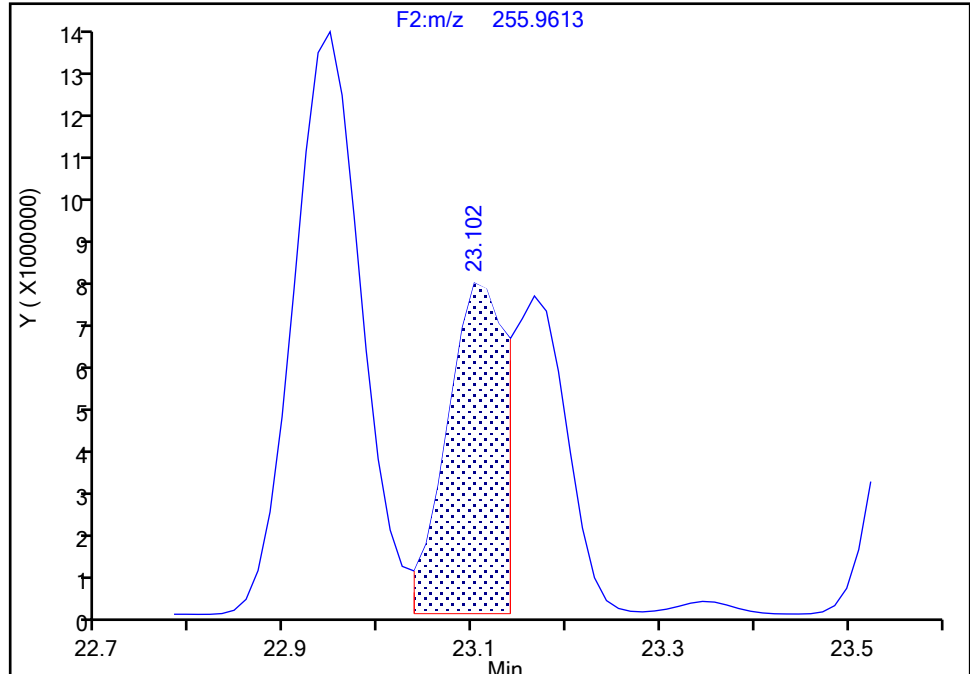
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

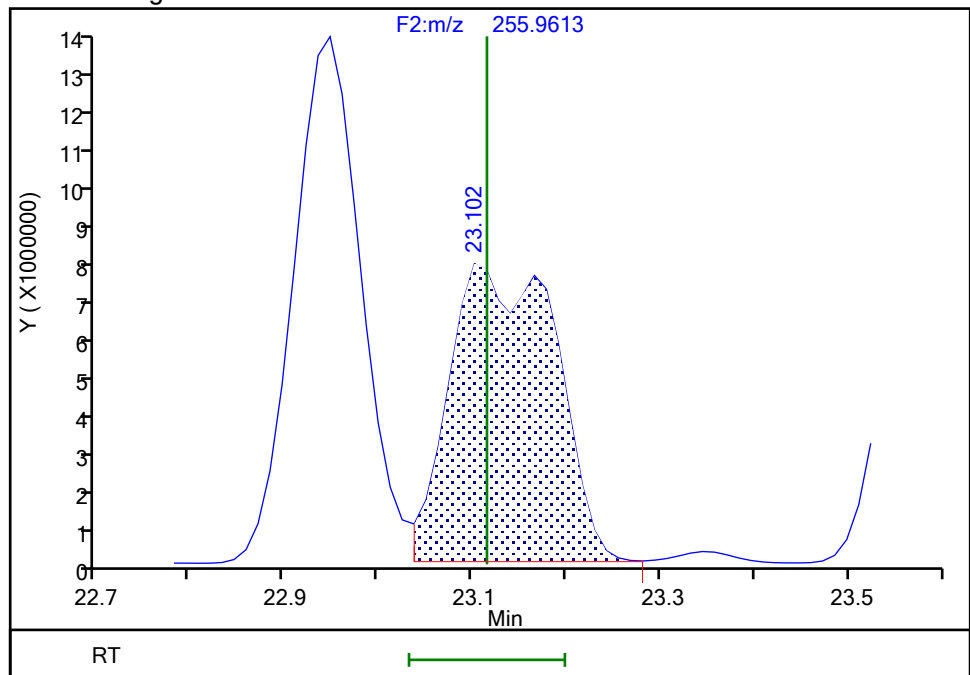
RT: 23.10
Area: 32747425
Amount: 487.1424
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 61897185
Amount: 769.2411
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

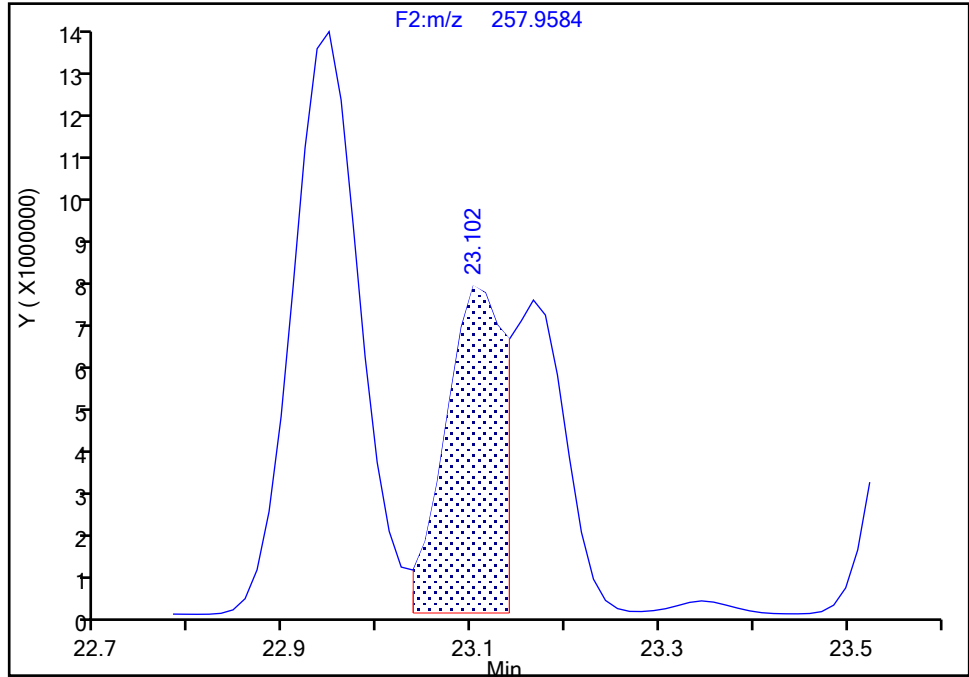
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

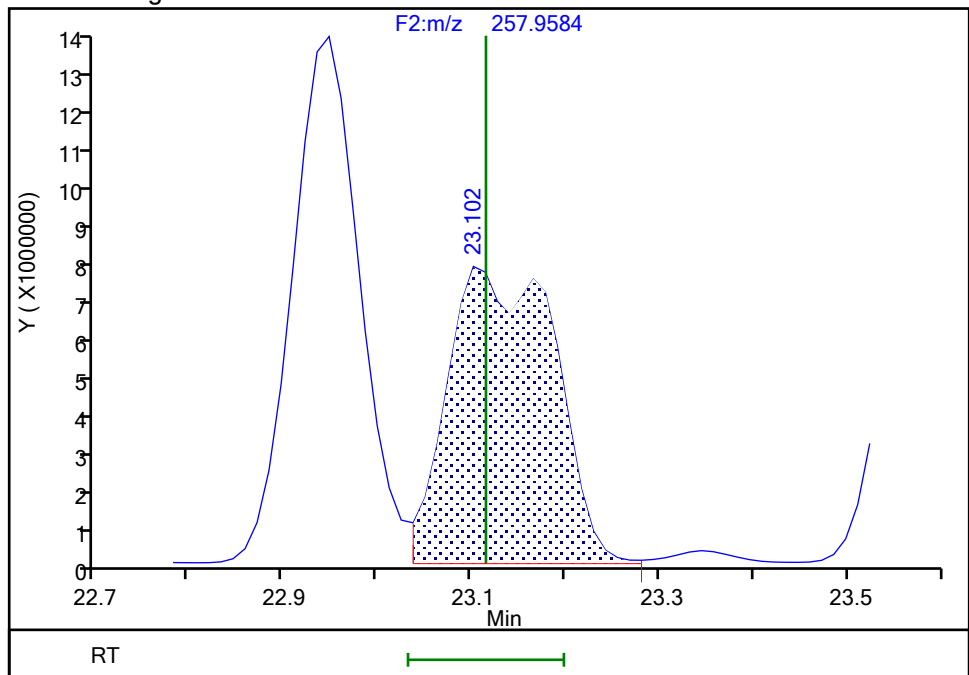
RT: 23.10
Area: 31717636
Amount: 487.1424
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 59869797
Amount: 769.2411
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2154 of 3050

BASFWHC-McIntosh-010155

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

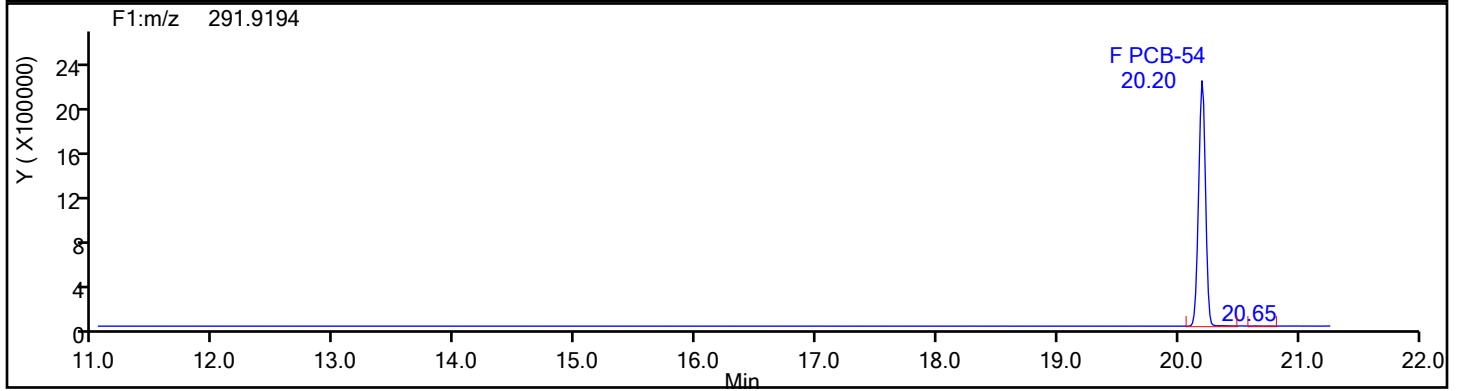
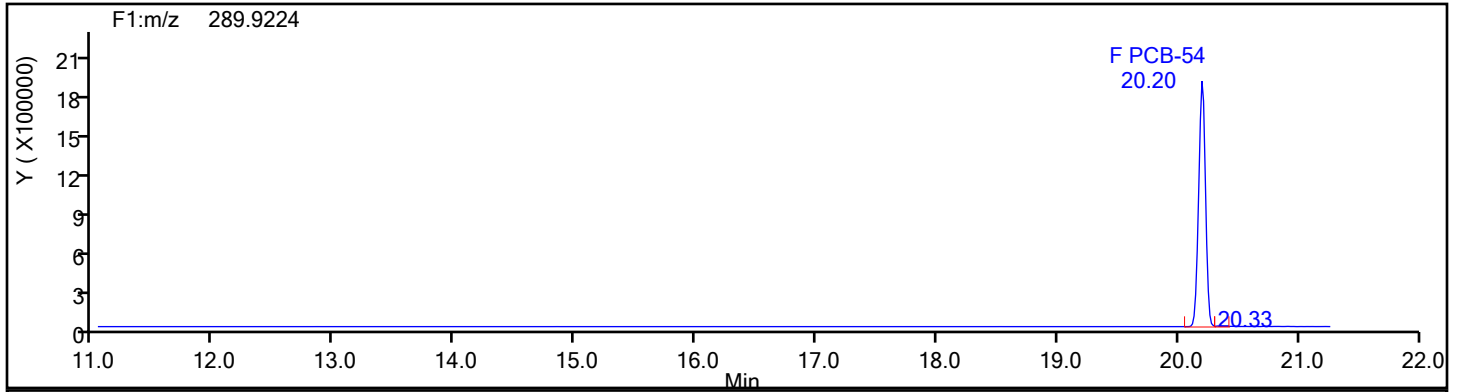
Worklist#: 87130

Sample Line#: 5

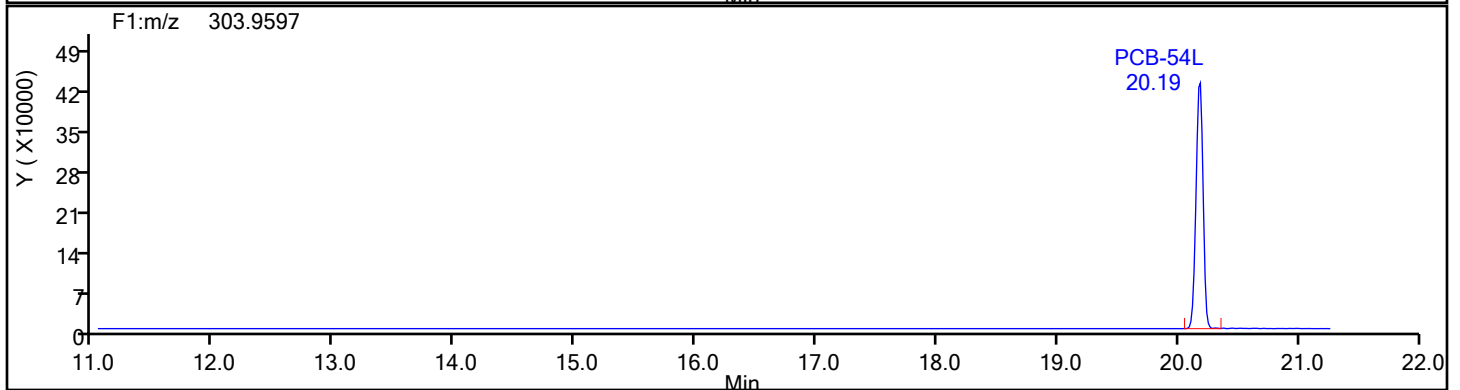
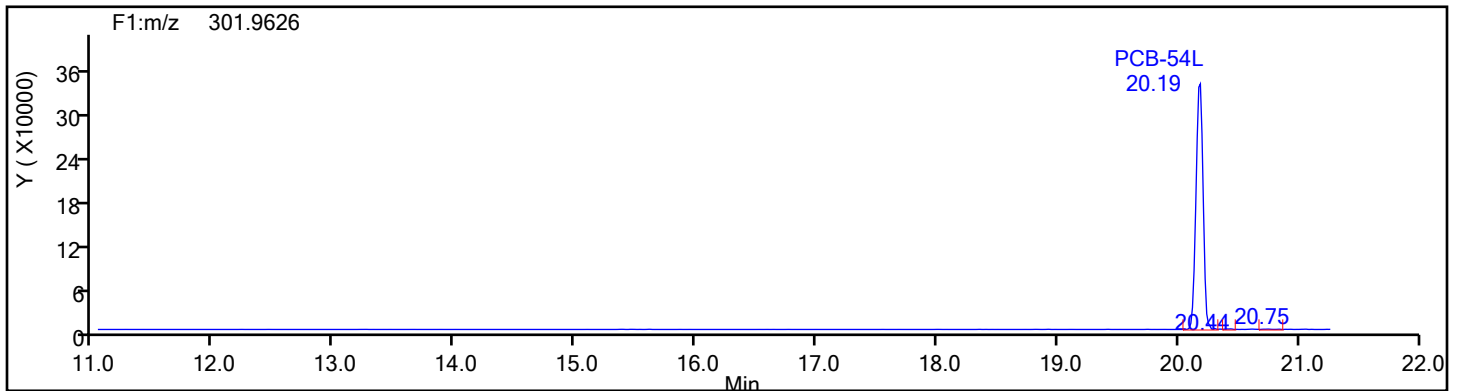
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

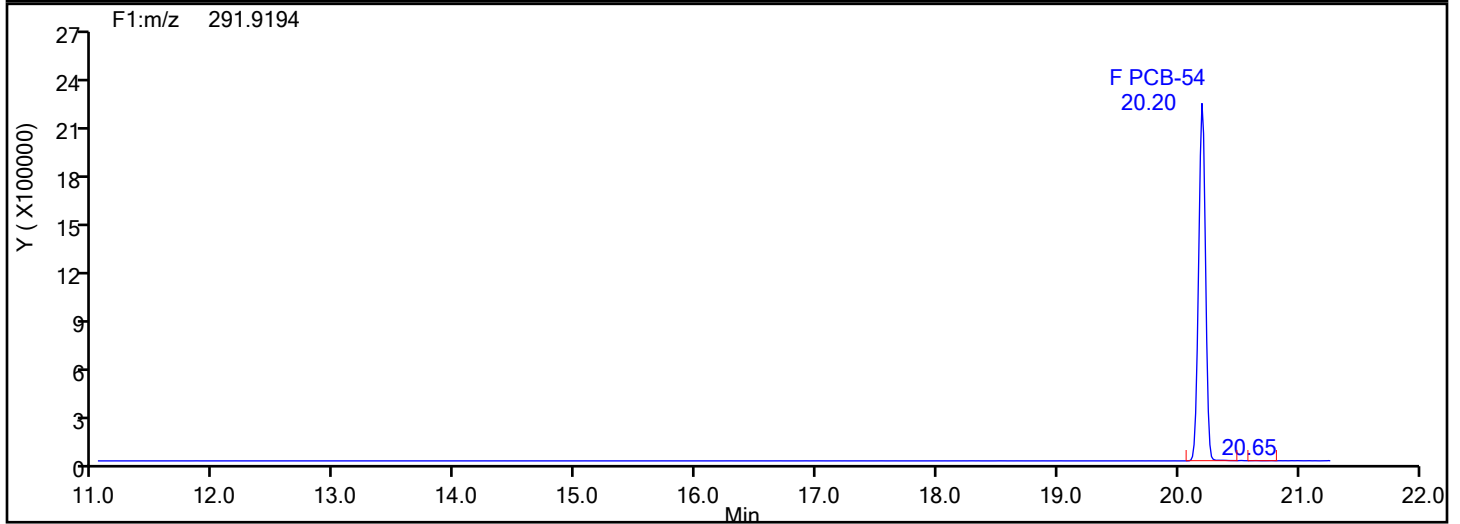
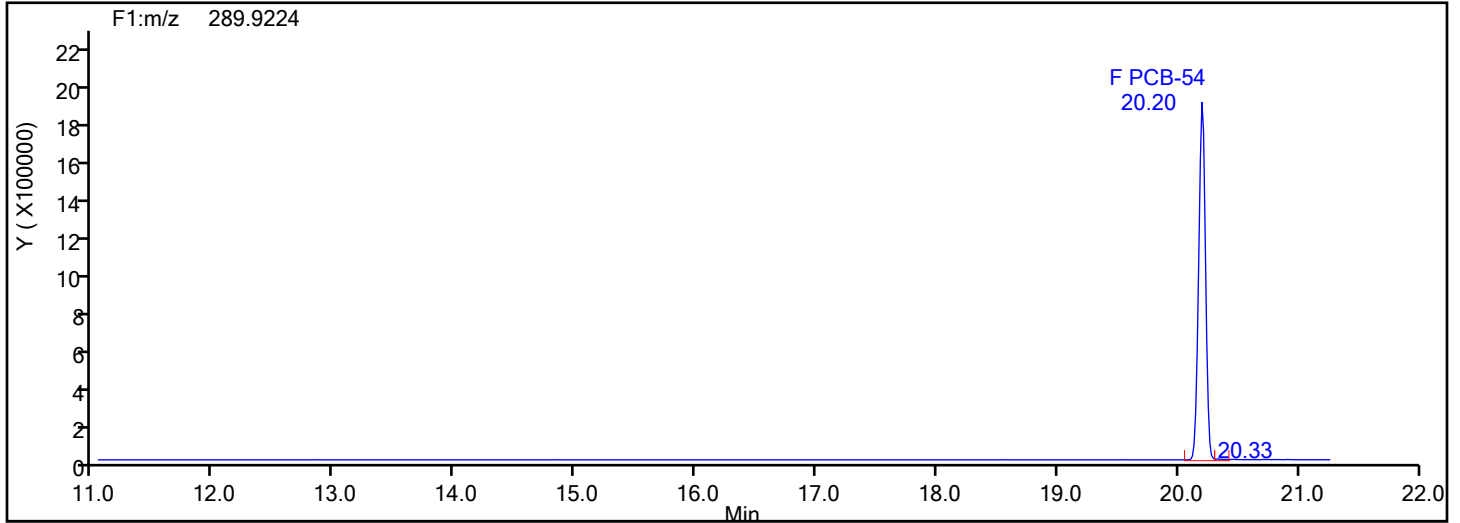


TePCB F1 Standards

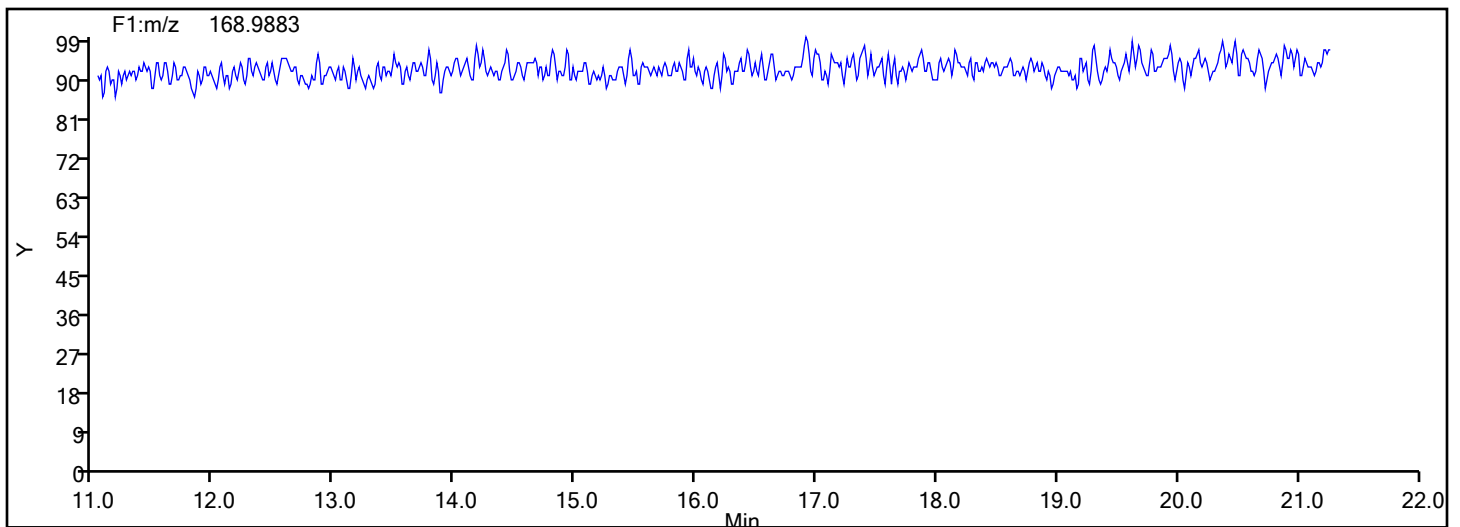


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

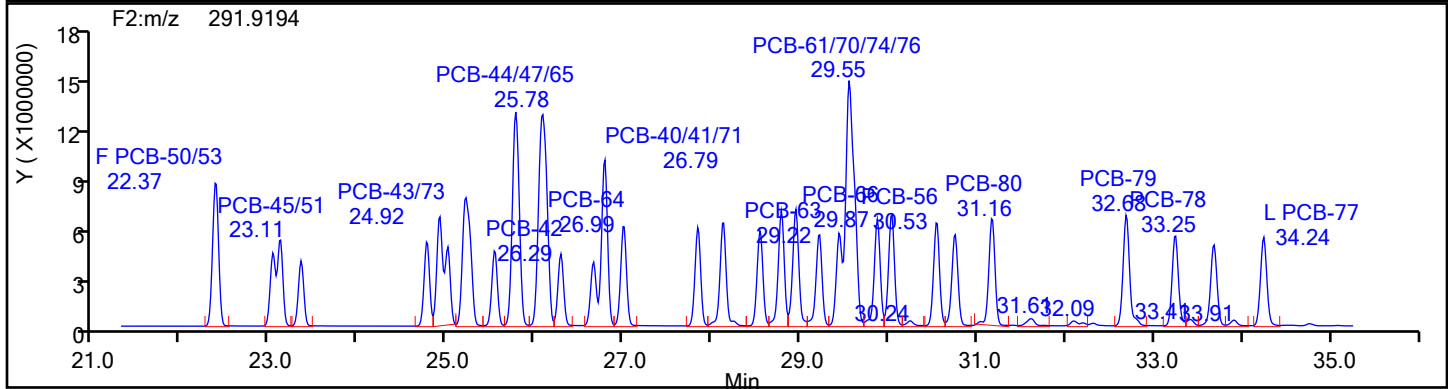
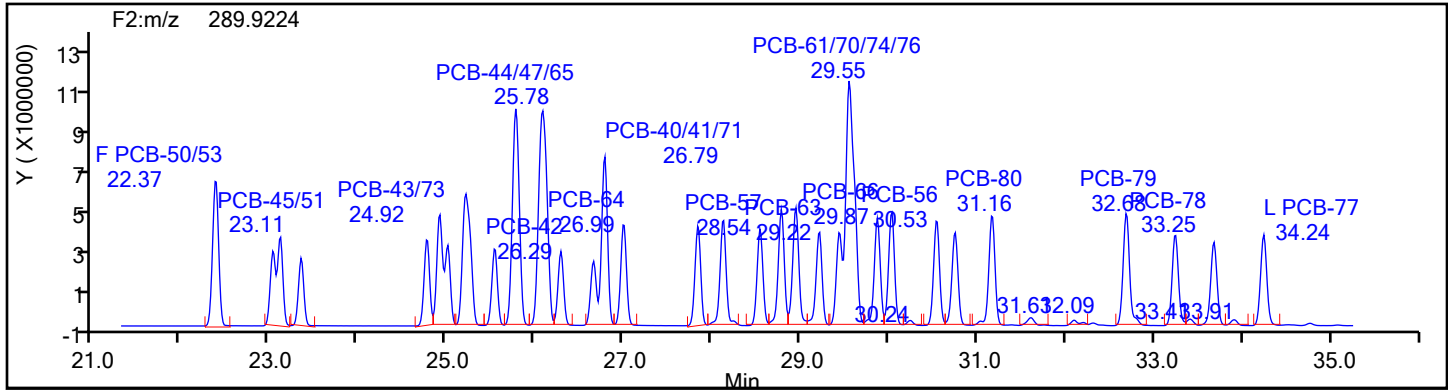
Worklist#: 87130

Sample Line#: 5

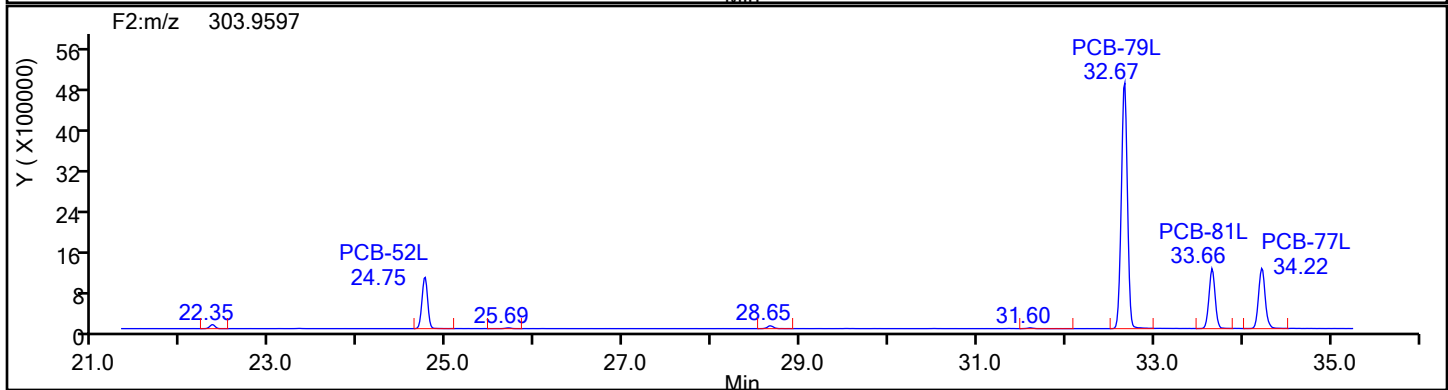
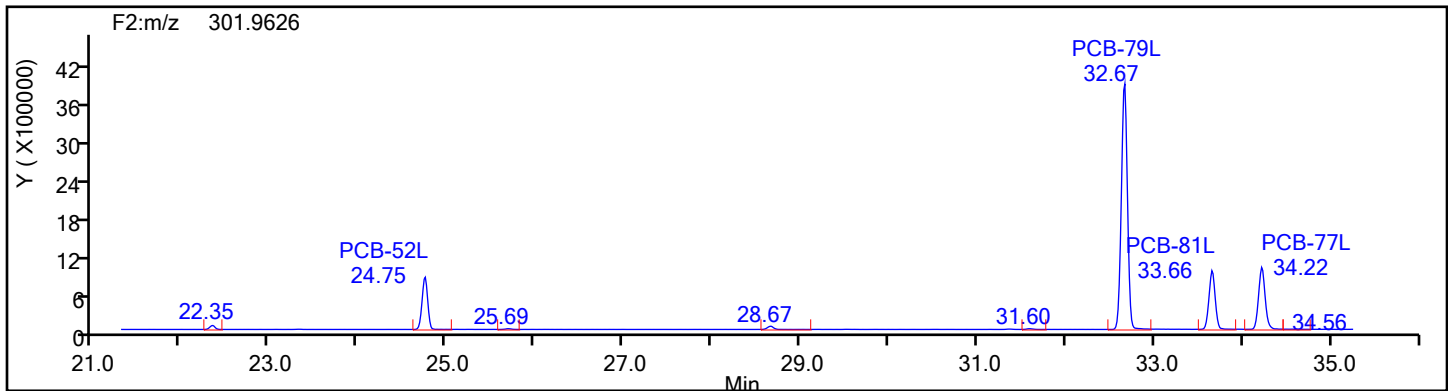
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

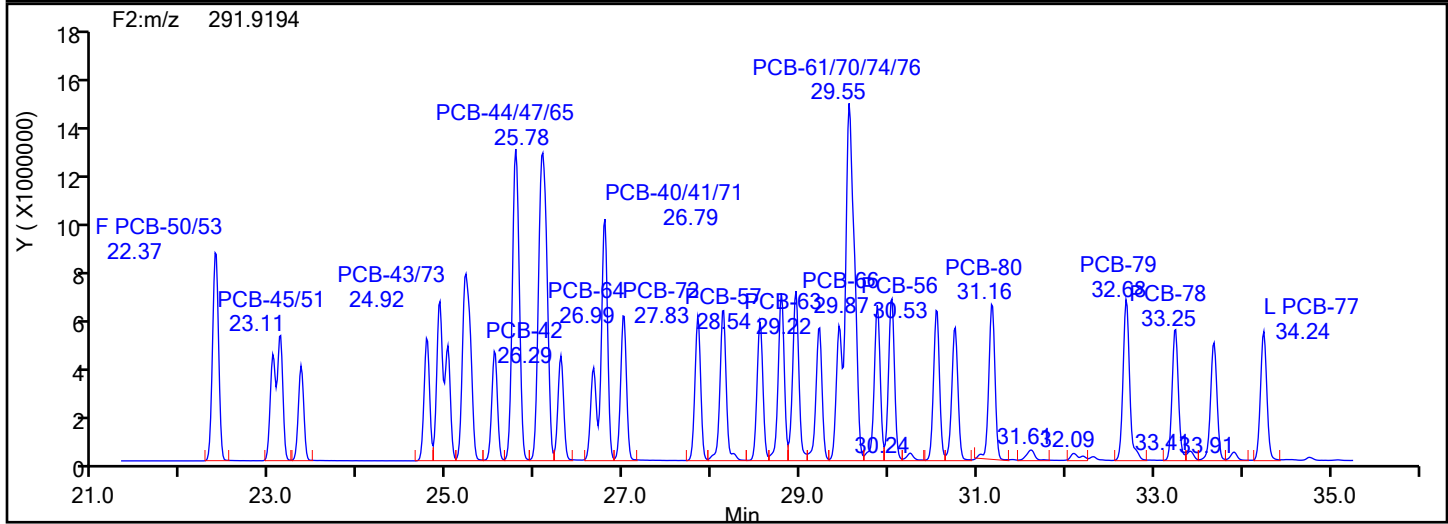
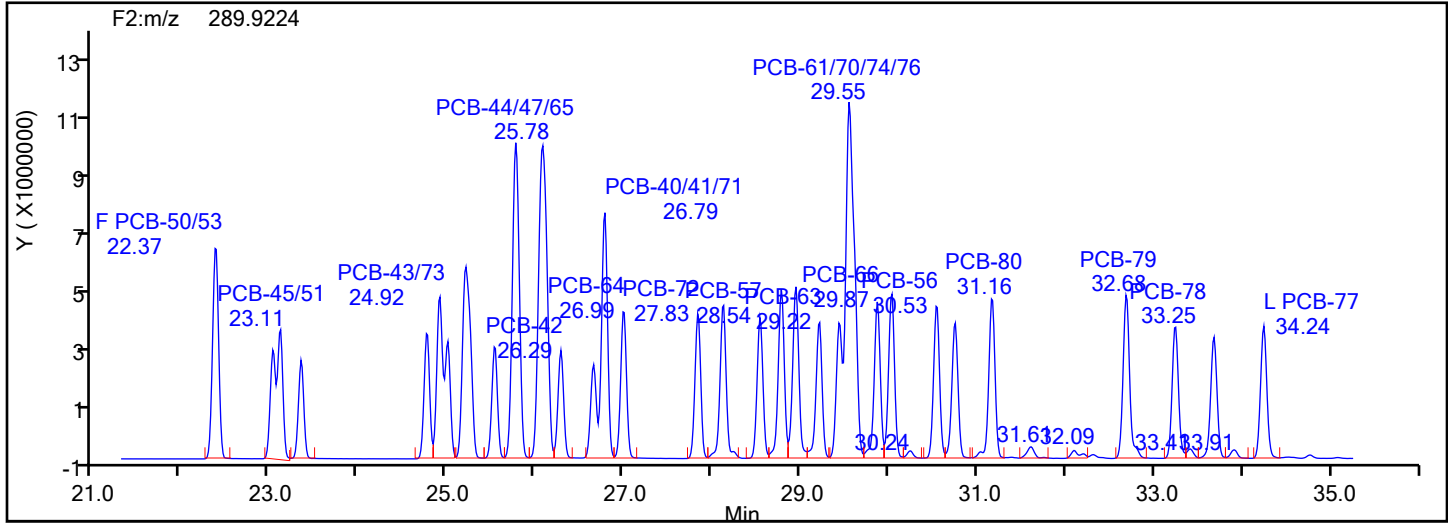
Worklist#: 87130

Sample Line#: 5

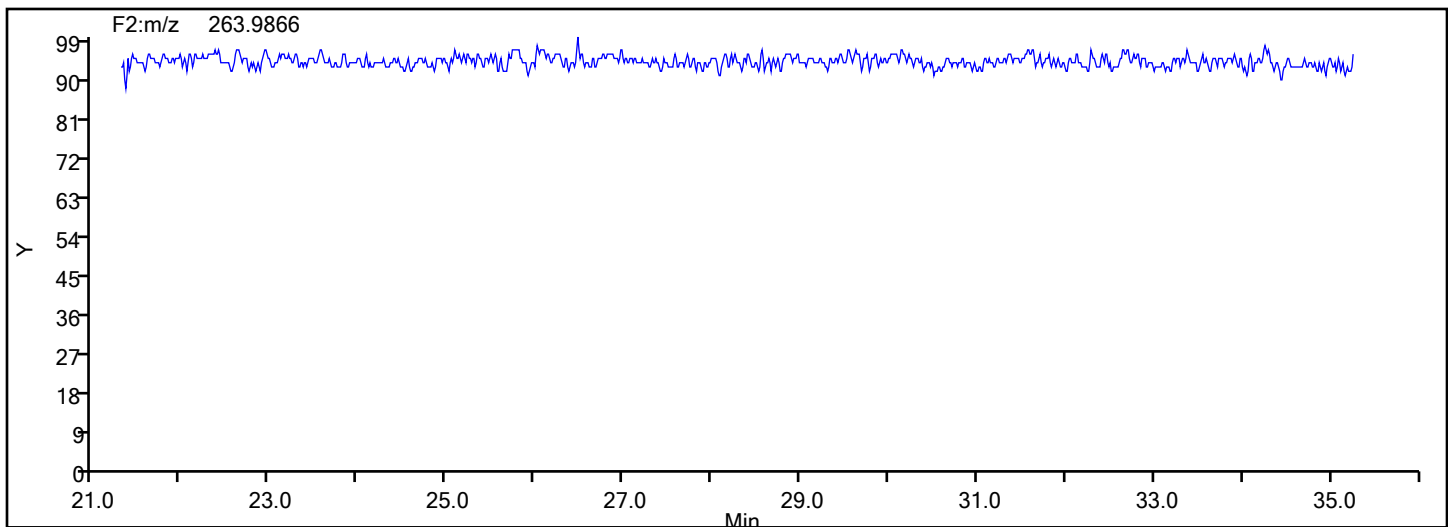
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

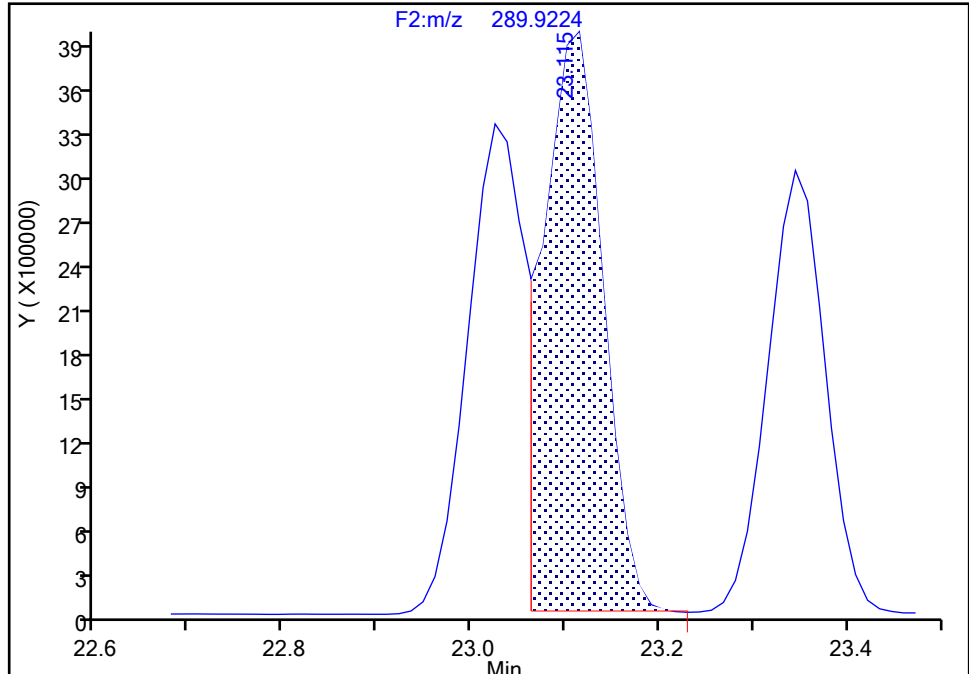
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

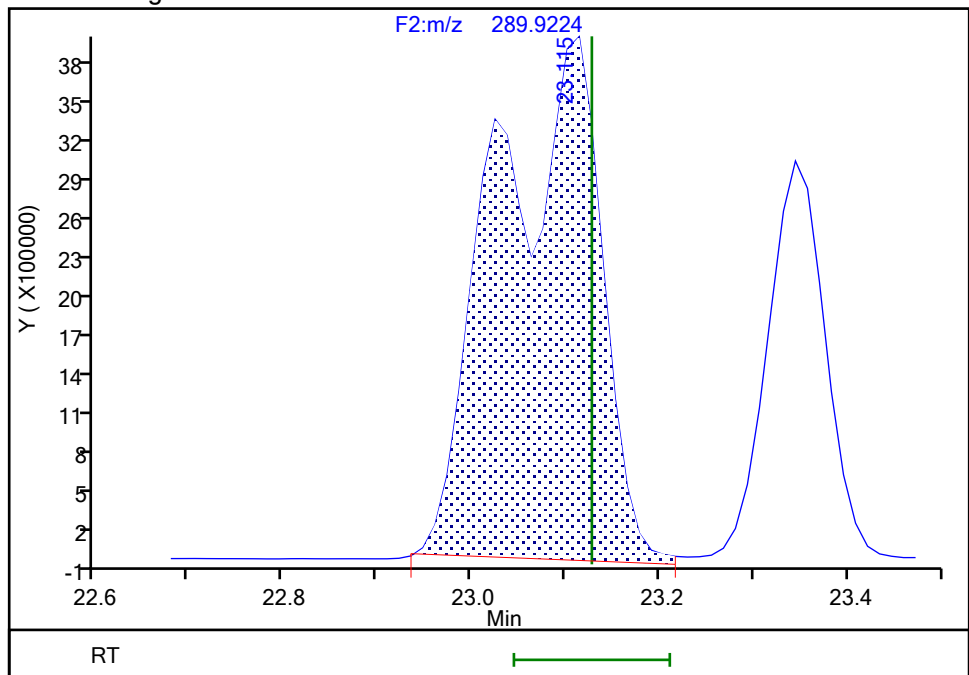
RT: 23.11
Area: 16898449
Amount: 501.6231
Amount Units: pg/ul

Processing Integration Results



RT: 23.11
Area: 30645858
Amount: 771.8655
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

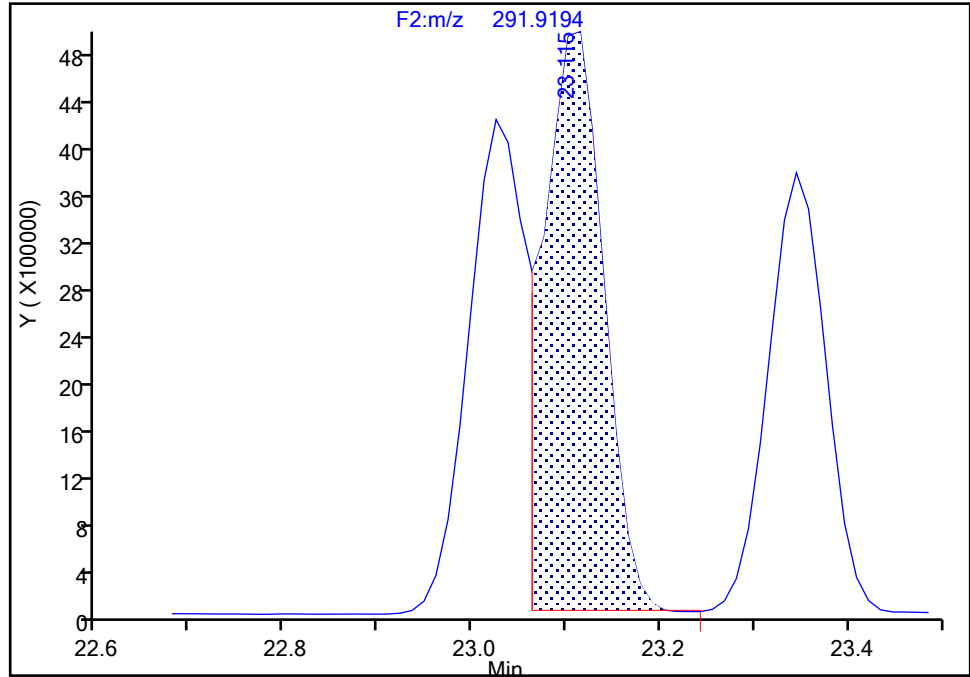
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

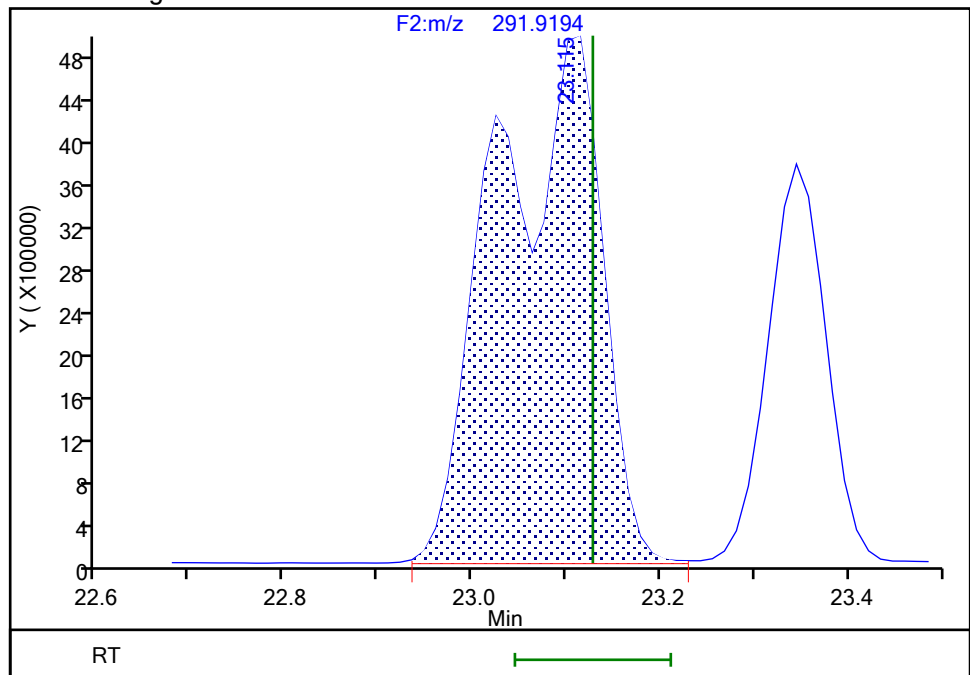
RT: 23.11
Area: 21433250
Amount: 501.6231
Amount Units: pg/ul

Processing Integration Results



RT: 23.11
Area: 38839930
Amount: 771.8655
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2160 of 3050

BASFWHC-McIntosh-010161

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

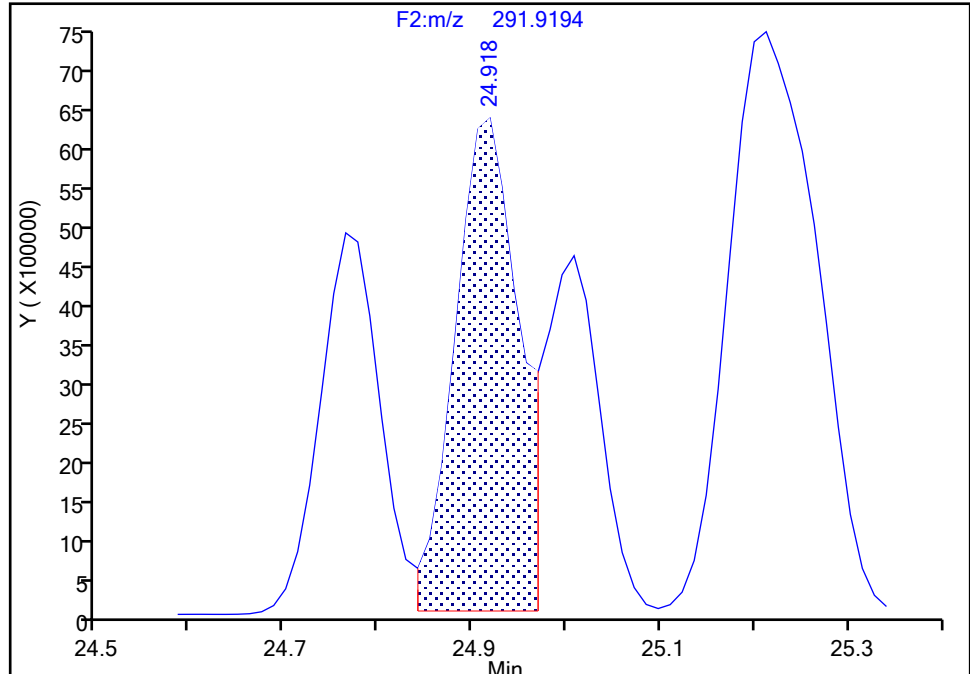
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

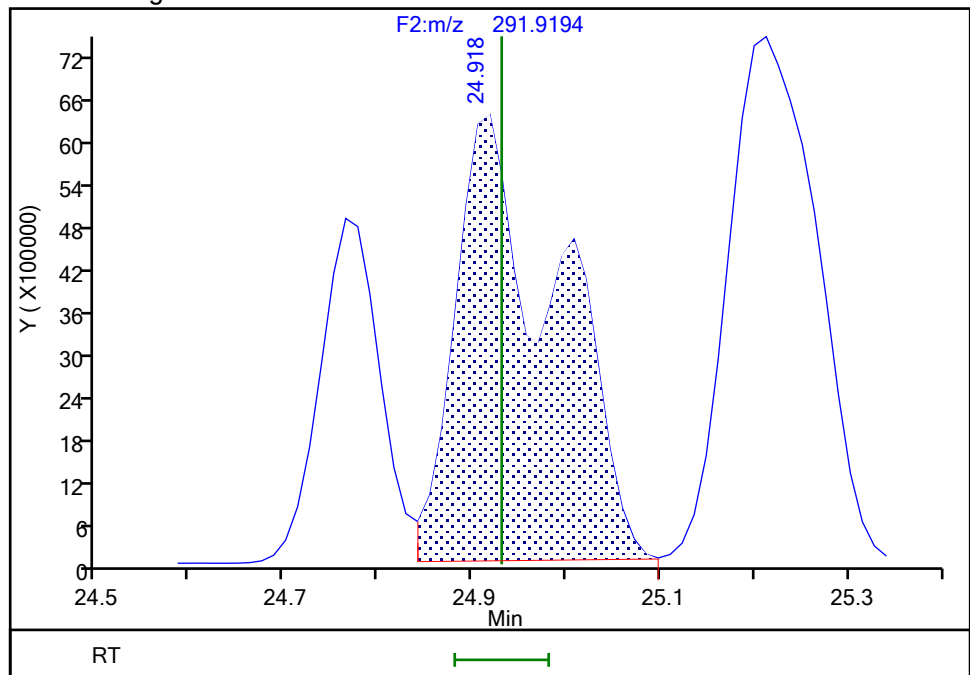
RT: 24.92
Area: 29202623
Amount: 531.4284
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 47225368
Amount: 749.8375
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

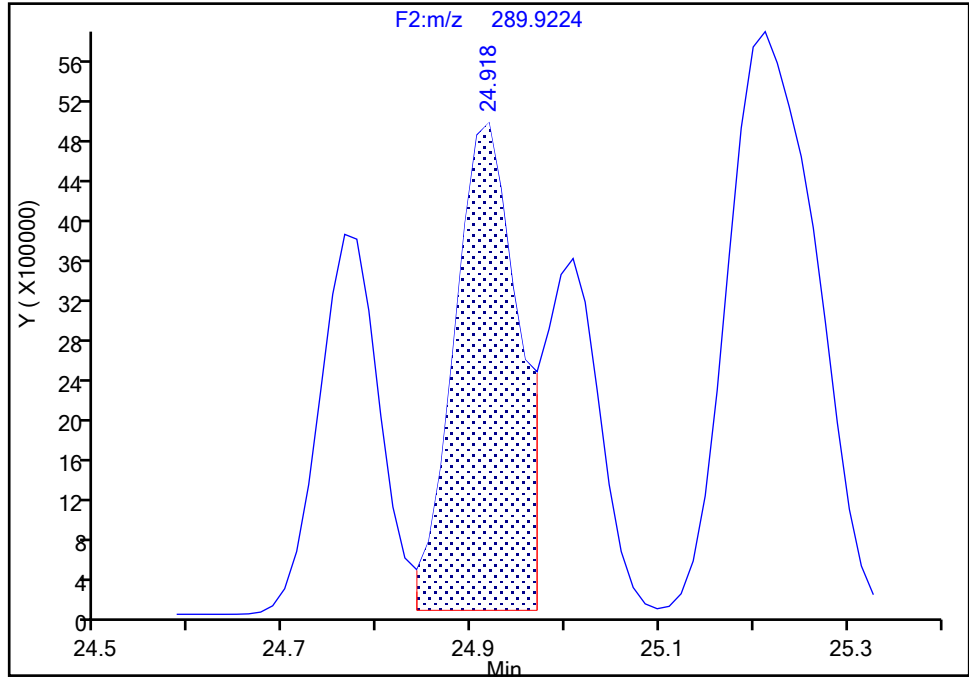
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

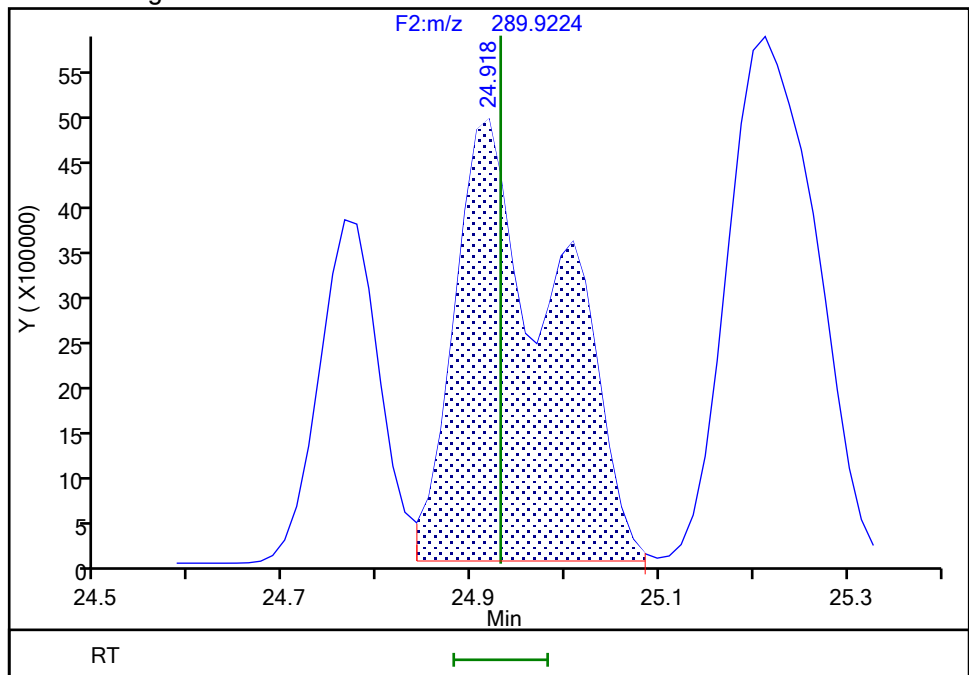
RT: 24.92
Area: 22988569
Amount: 531.4284
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 37178269
Amount: 749.8375
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2162 of 3050

BASFWHC-McIntosh-010163

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

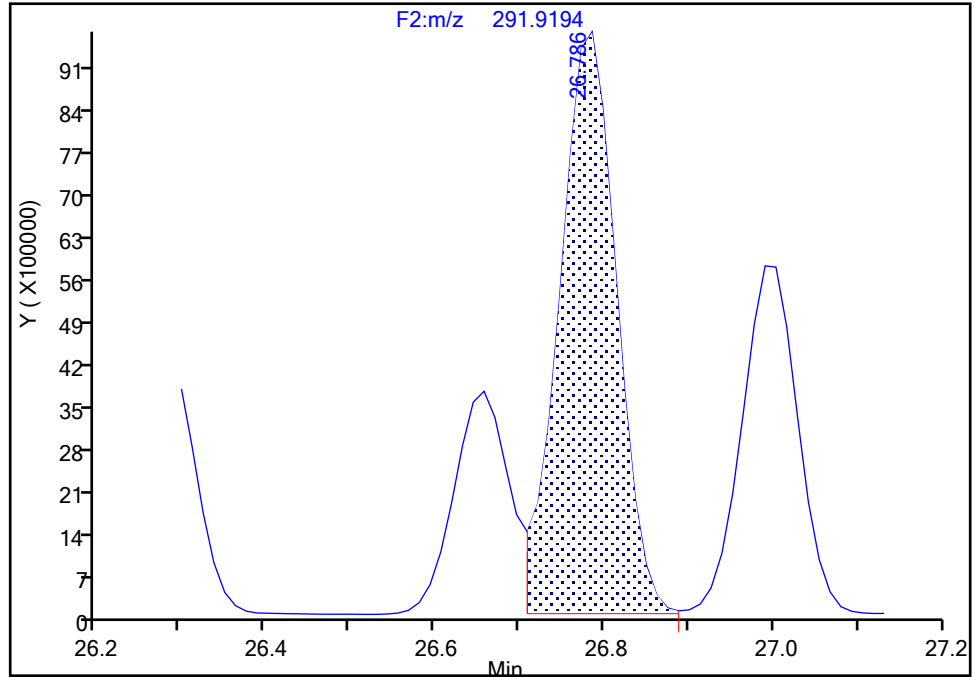
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

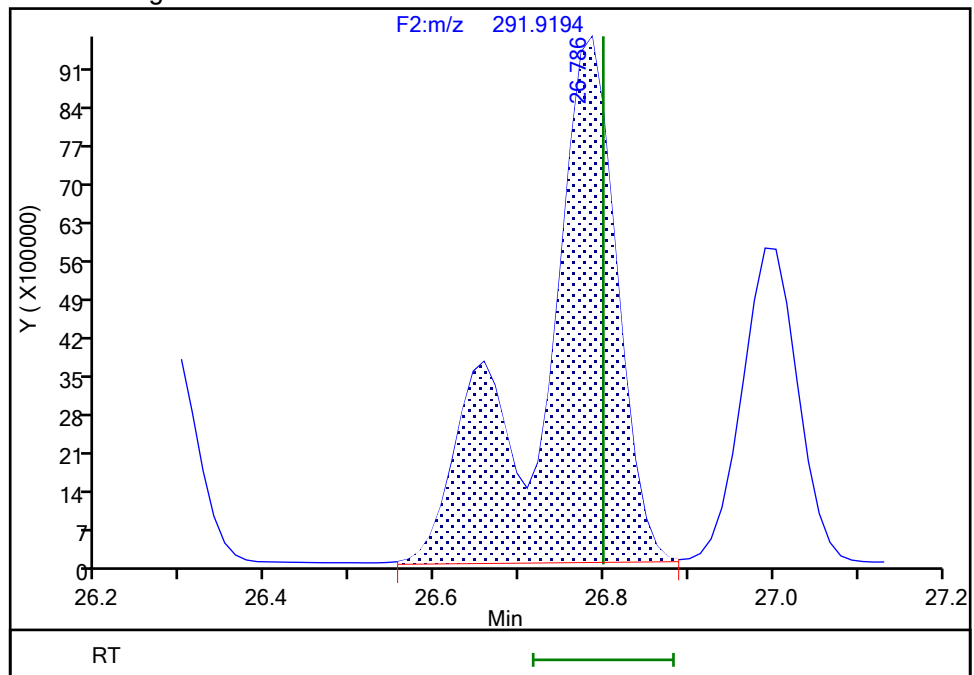
RT: 26.79
Area: 44846660
Amount: 906.5085
Amount Units: pg/ul

Processing Integration Results



RT: 26.79
Area: 61486178
Amount: 1134.5940
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

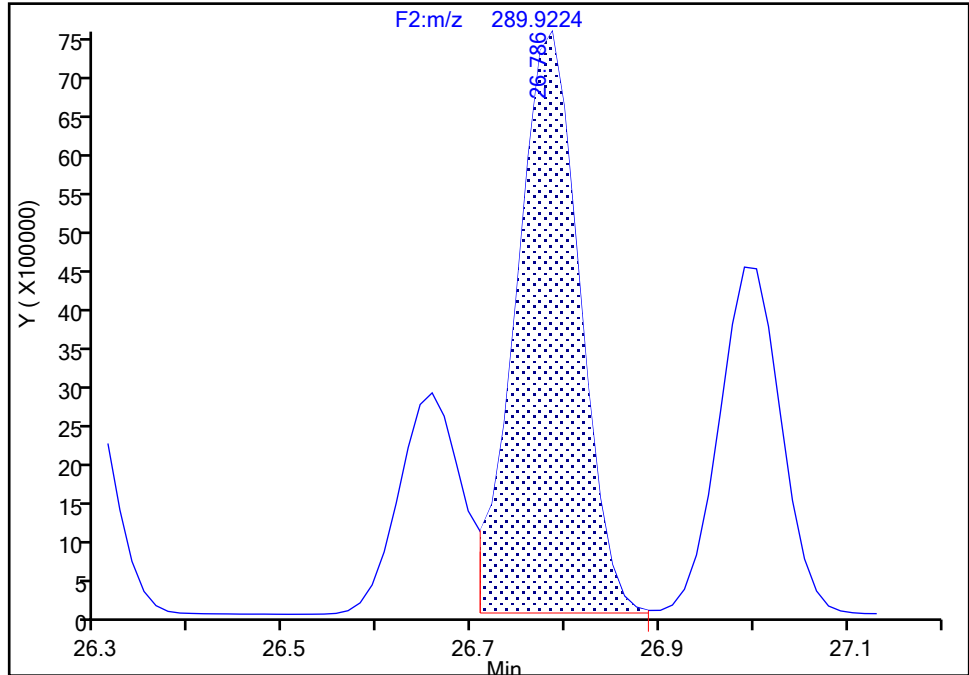
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

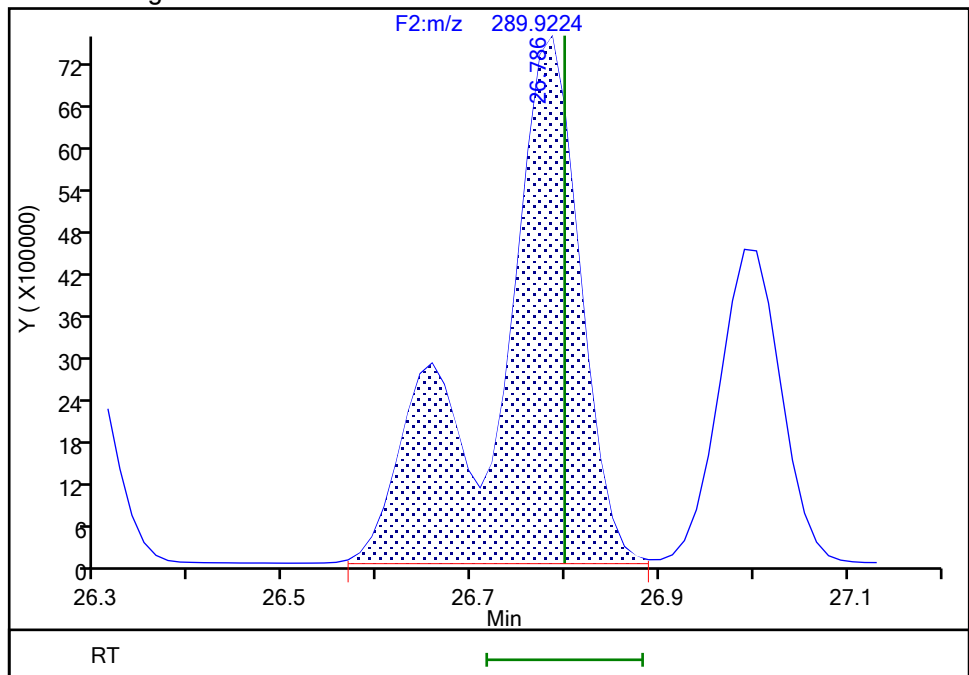
RT: 26.79
Area: 35210554
Amount: 906.5085
Amount Units: pg/ul

Processing Integration Results



RT: 26.79
Area: 48057577
Amount: 1134.5940
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2164 of 3050

BASFWC-McIntosh-010165

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

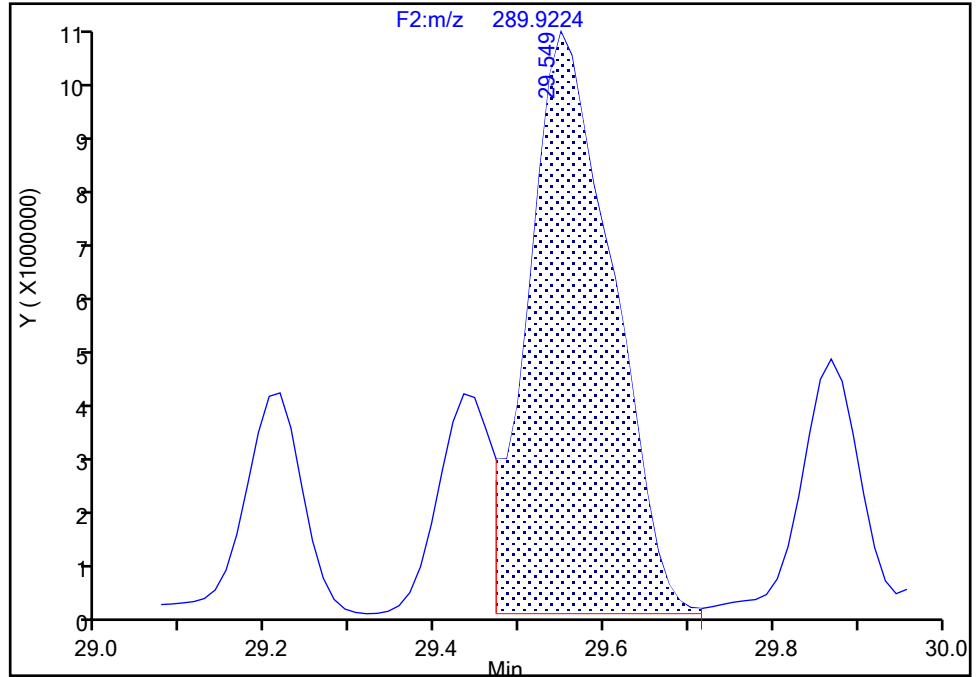
Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 1

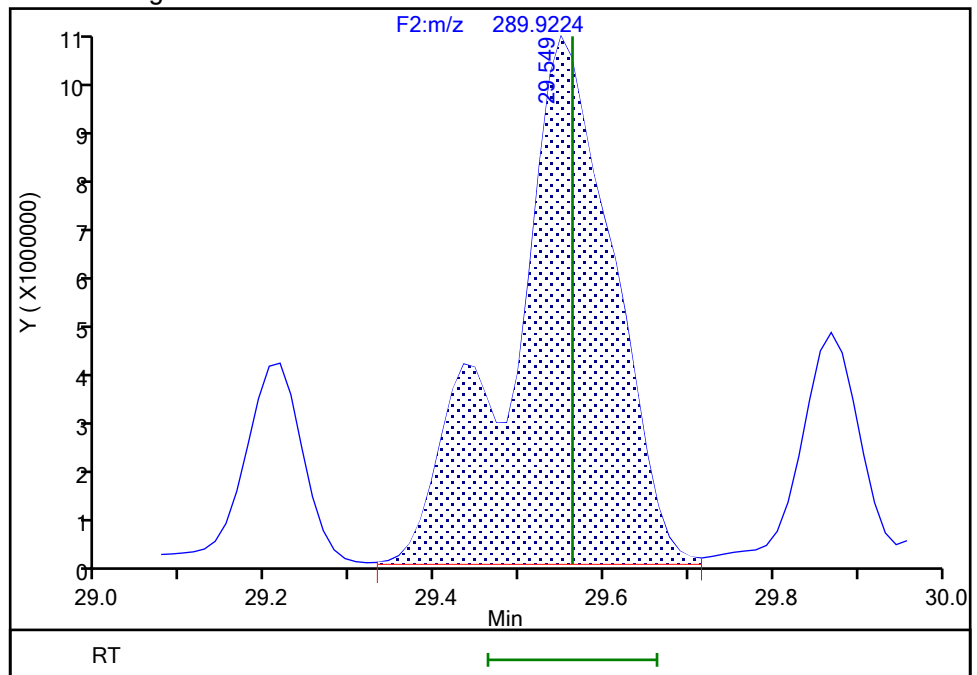
RT: 29.55
Area: 75252399
Amount: 1432.6490
Amount Units: pg/ul

Processing Integration Results



RT: 29.55
Area: 92572268
Amount: 1539.9013
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

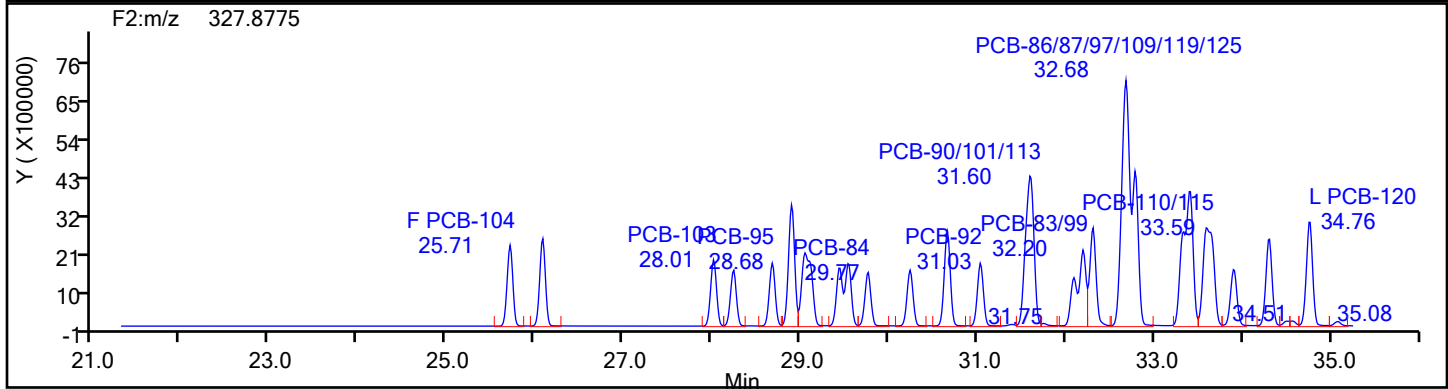
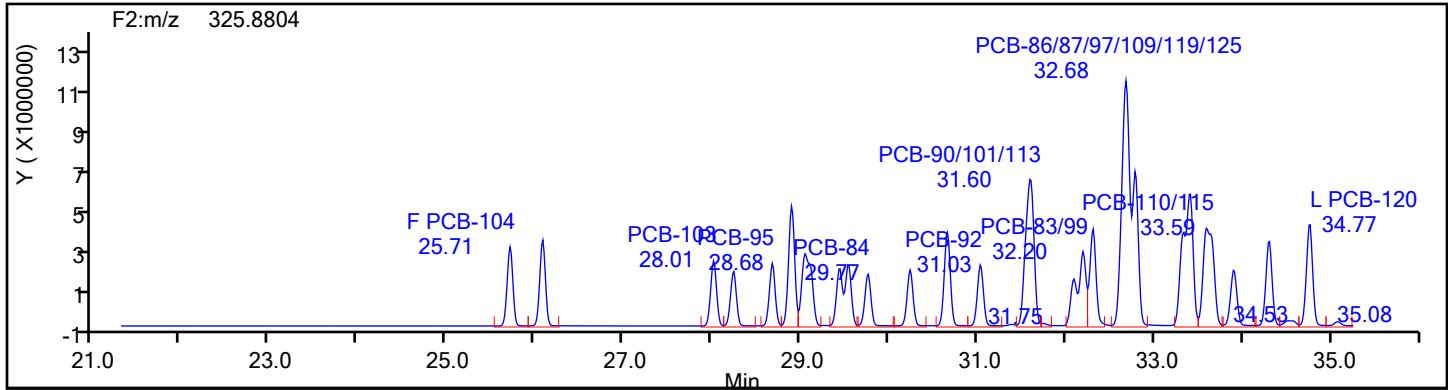
Worklist#: 87130

Sample Line#: 5

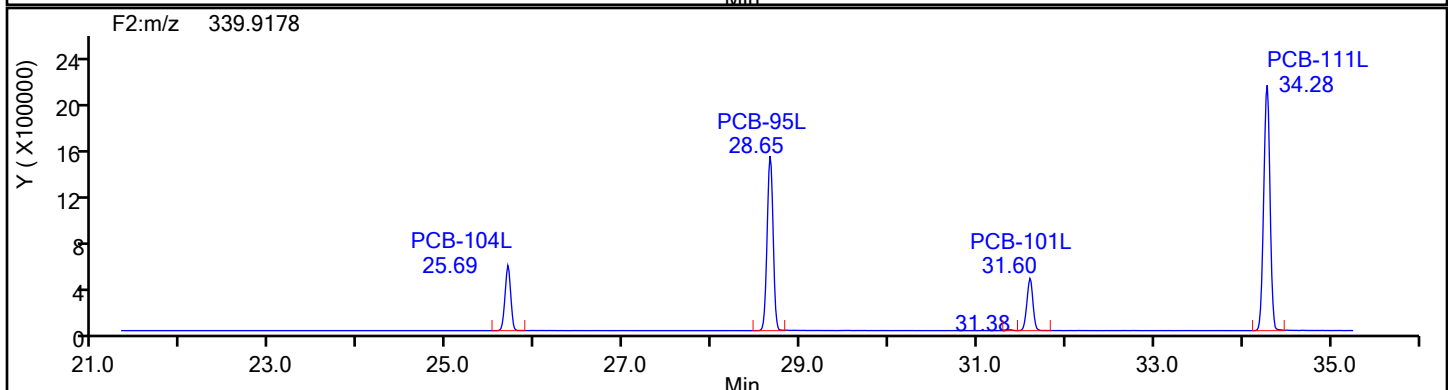
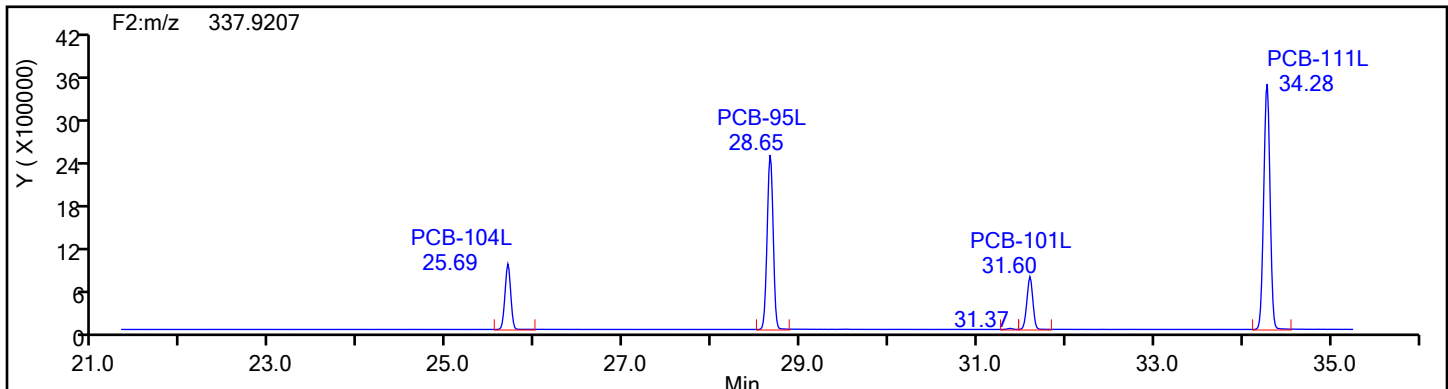
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

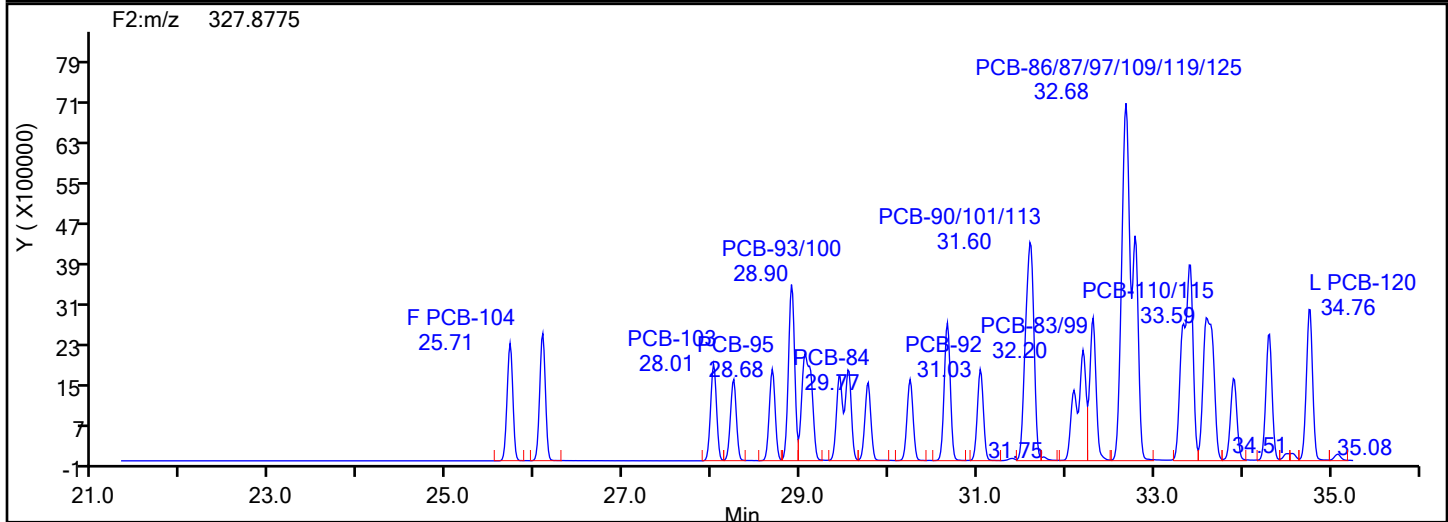
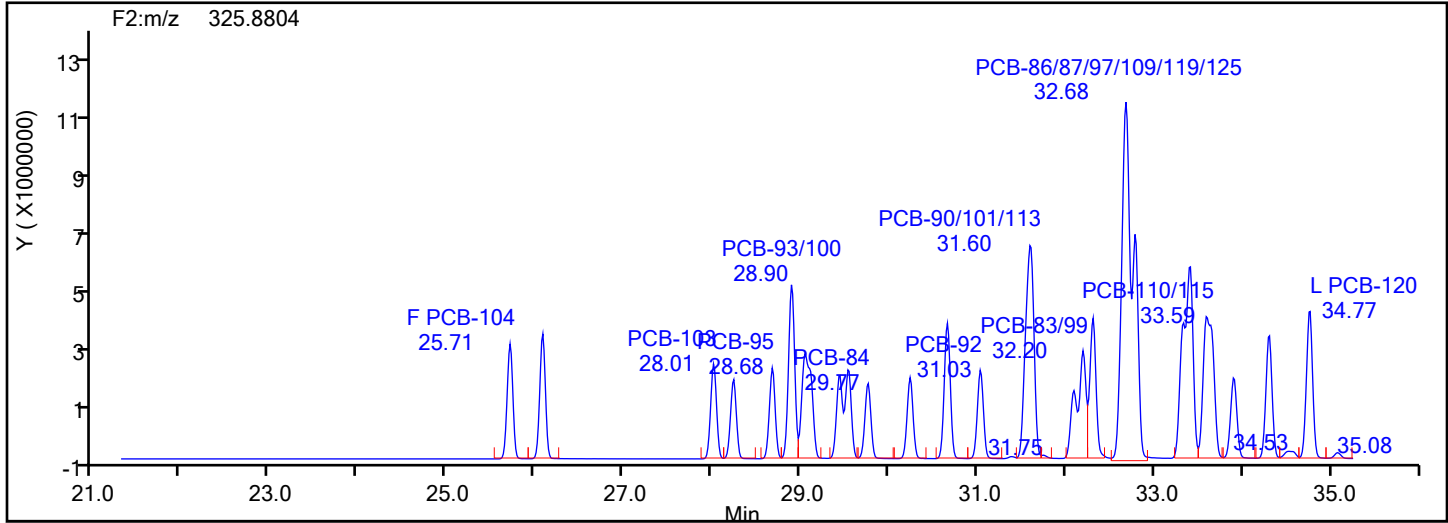
Worklist#: 87130

Sample Line#: 5

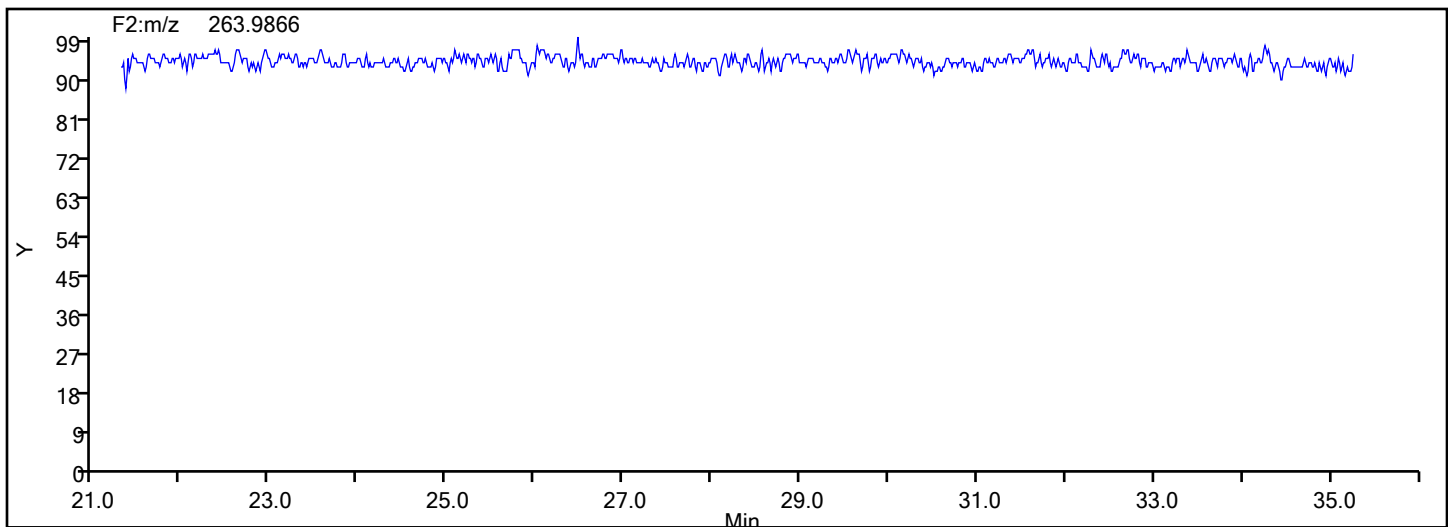
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

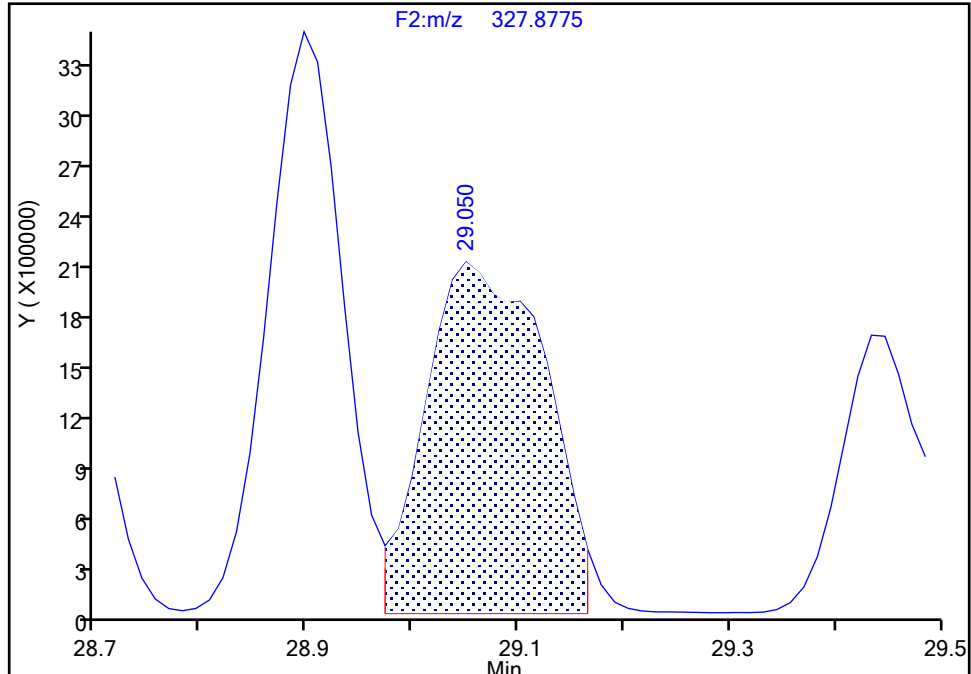
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

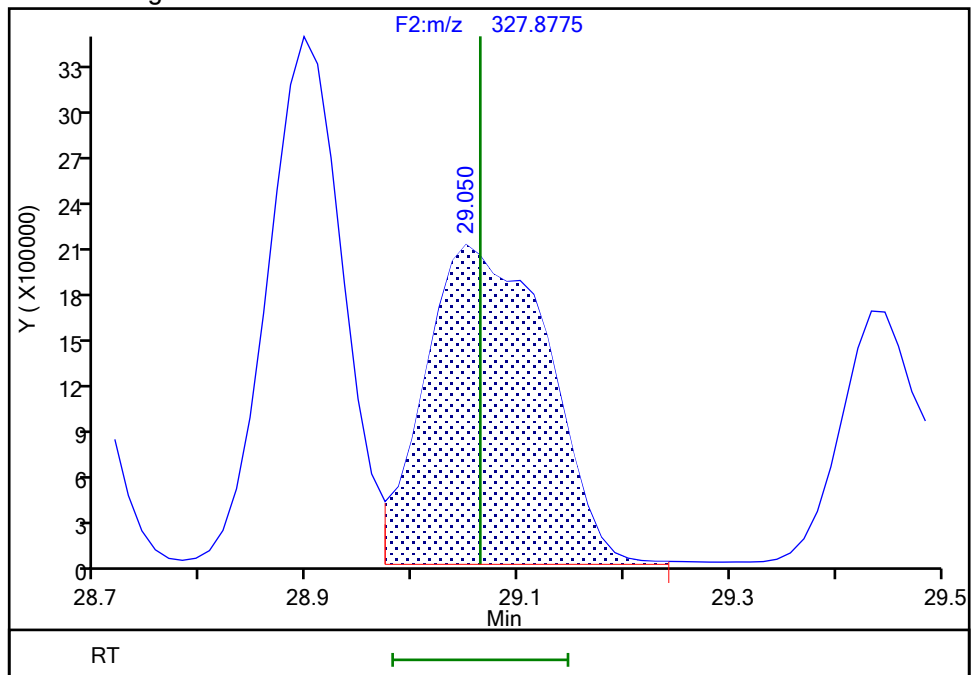
RT: 29.05
Area: 16404335
Amount: 779.9834
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 16762369
Amount: 785.4233
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

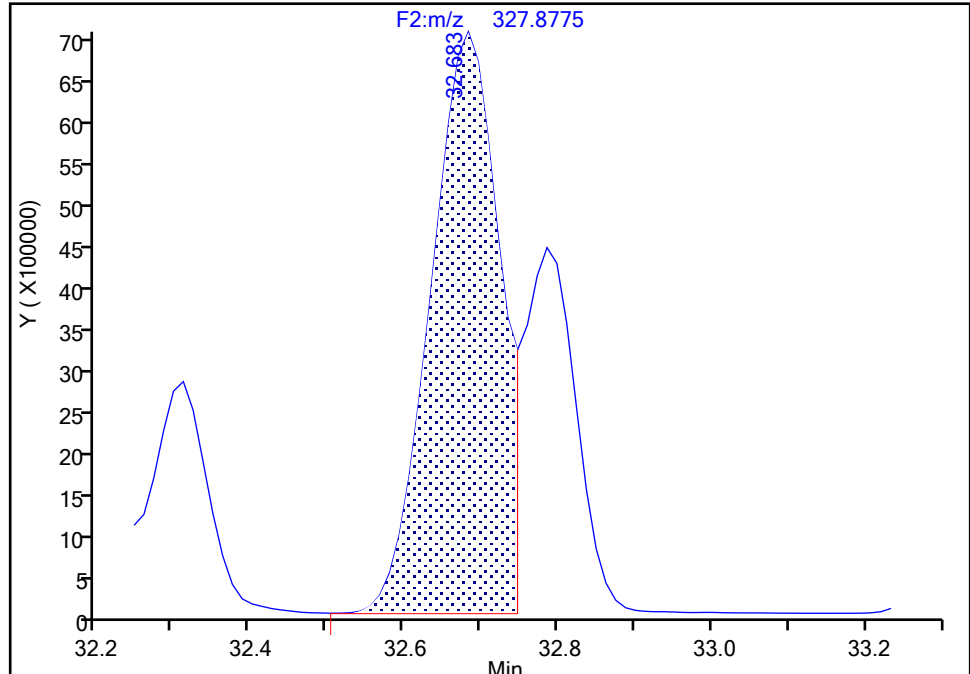
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

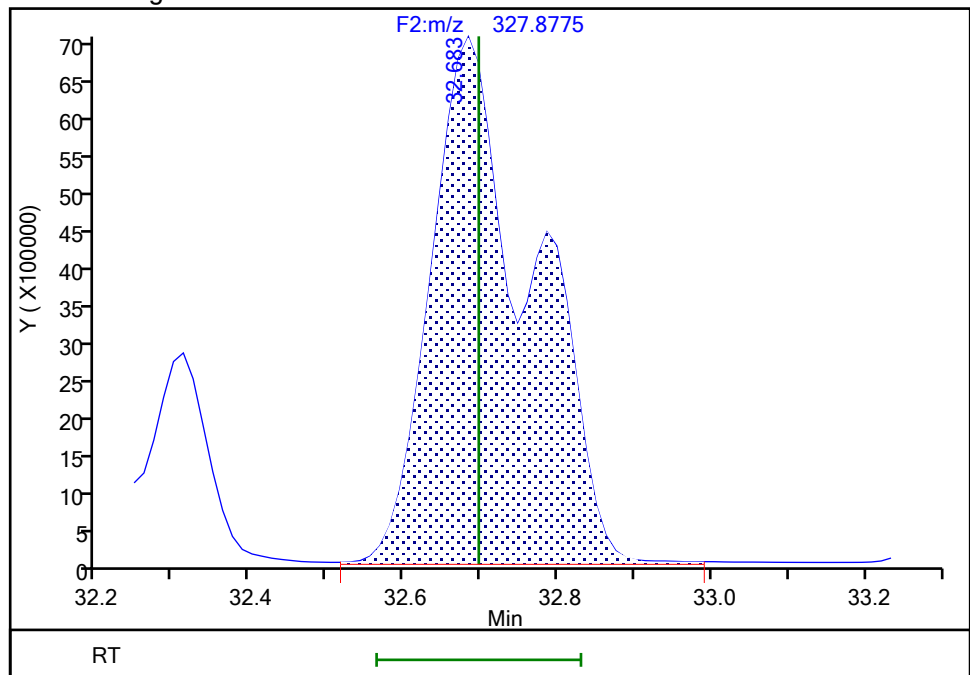
RT: 32.68
Area: 43345087
Amount: 1824.1601
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 63904922
Amount: 2391.0004
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

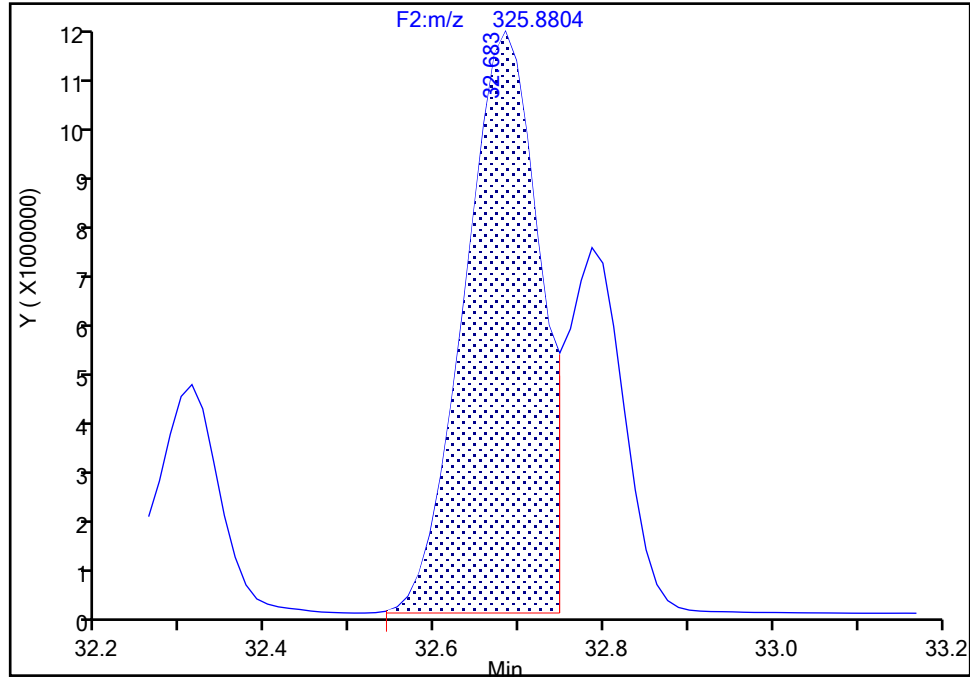
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

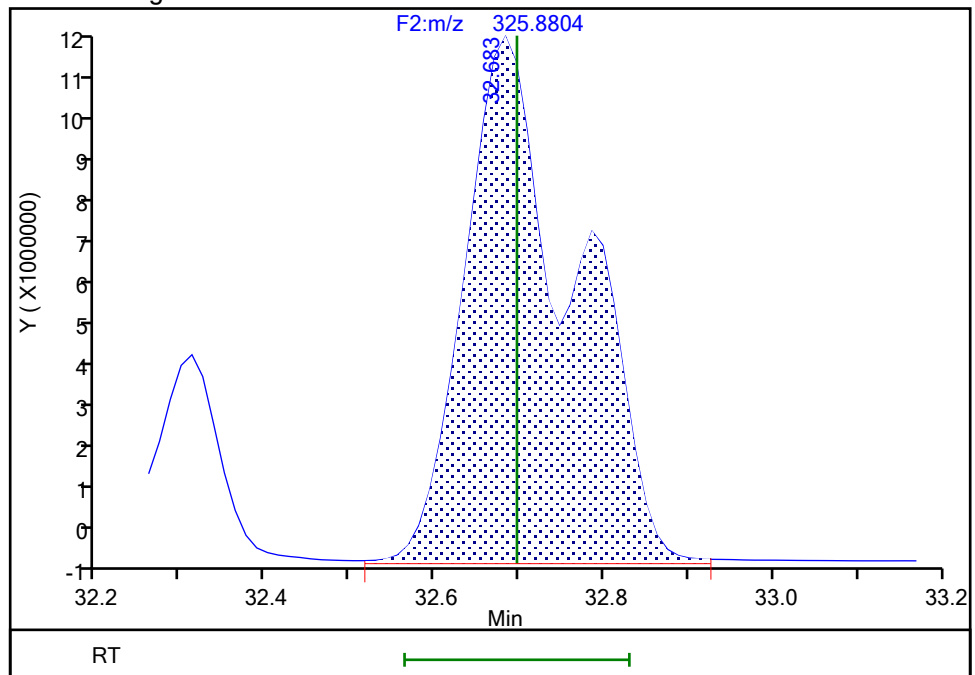
RT: 32.68
Area: 69451865
Amount: 1824.1601
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 103164202
Amount: 2391.0004
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2170 of 3050

BASFWHC-McIntosh-010171

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

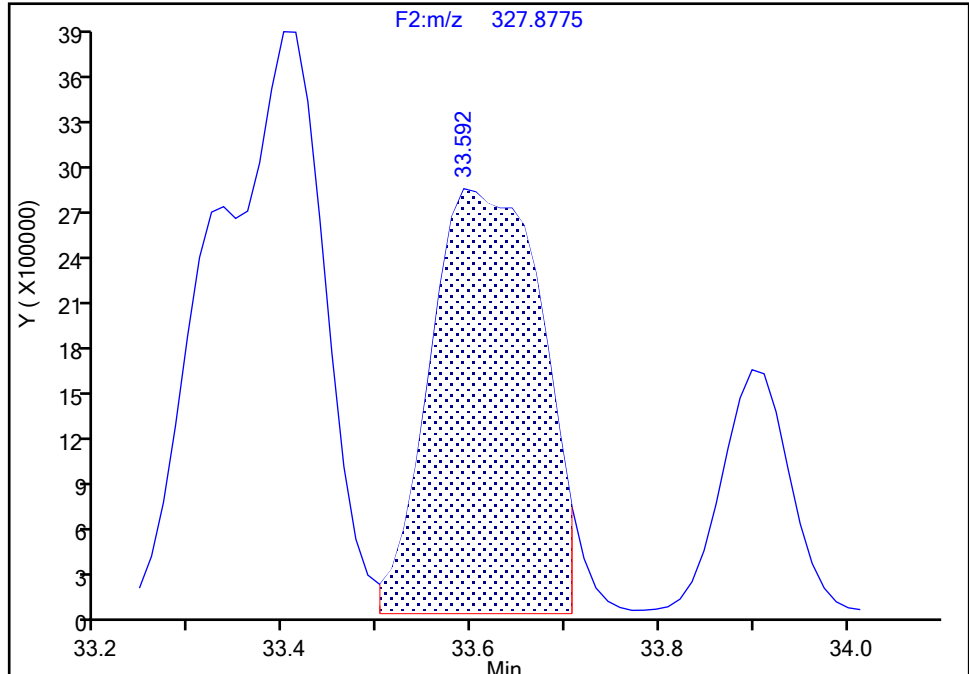
Detector F2(21.81 :35.54)

PCB-110/115, CAS: STL01826

Signal: 2

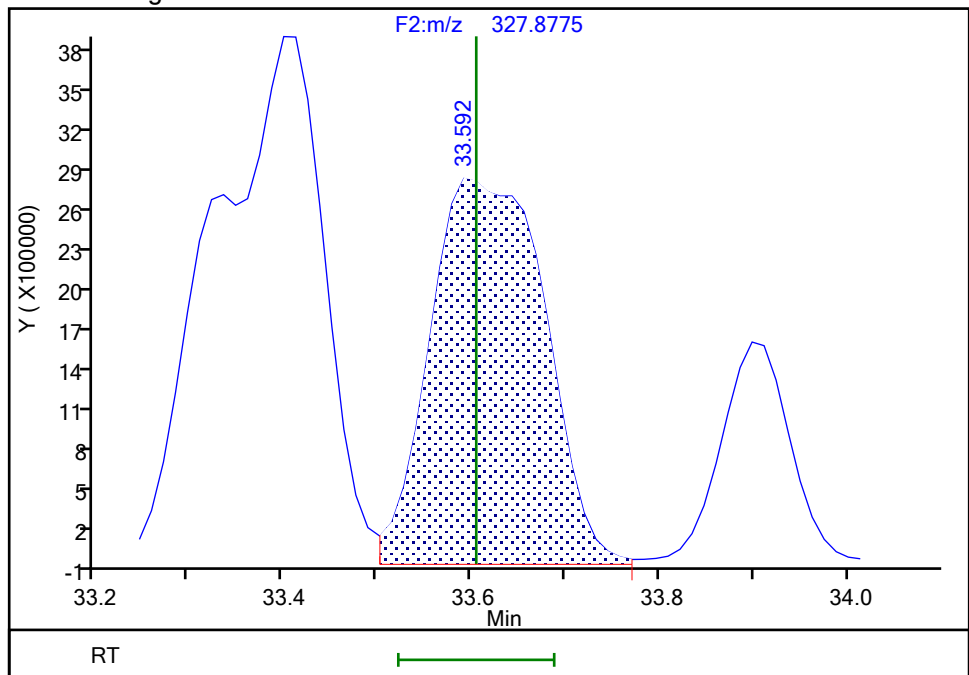
RT: 33.59
Area: 23018669
Amount: 766.0630
Amount Units: pg/ul

Processing Integration Results



RT: 33.59
Area: 23836087
Amount: 774.7018
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

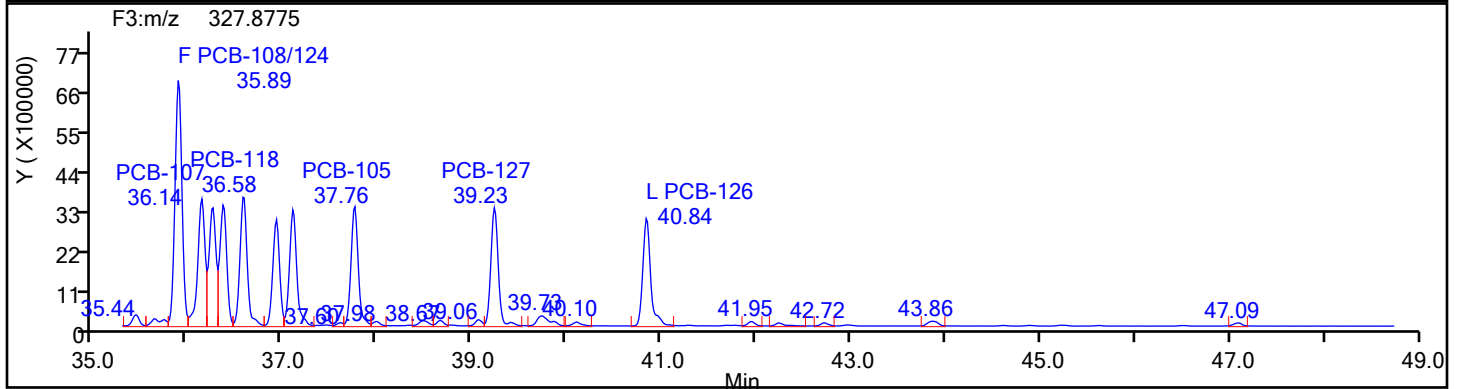
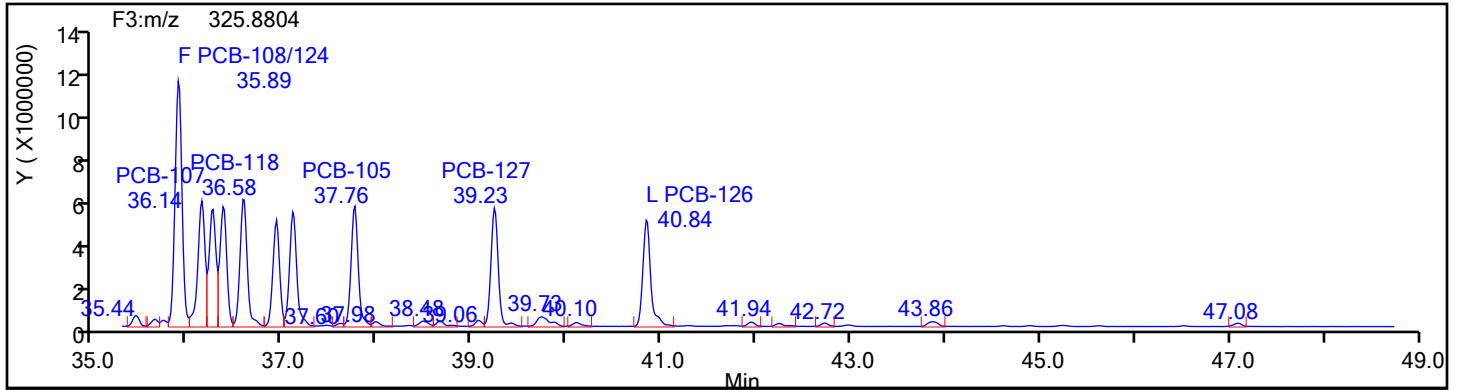
Worklist#: 87130

Sample Line#: 5

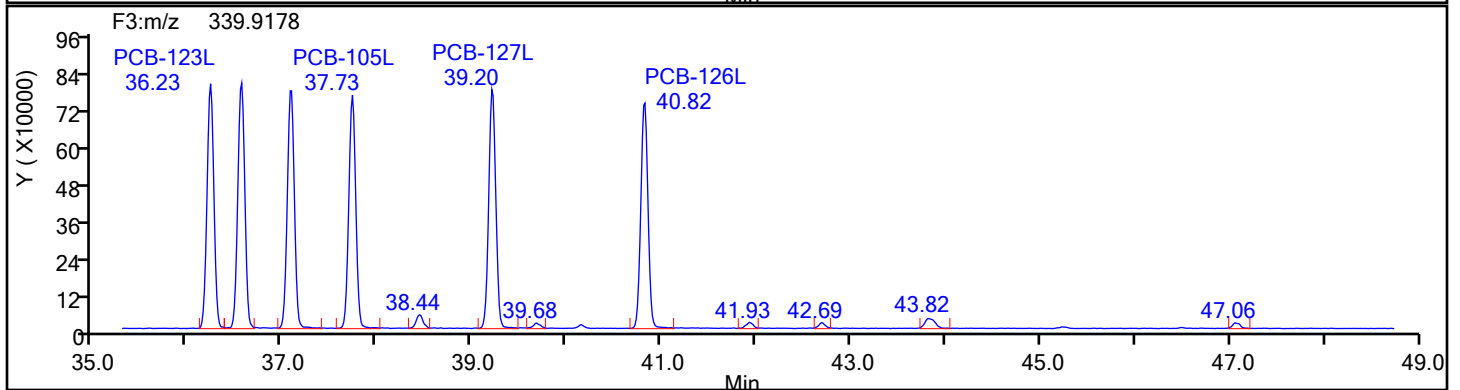
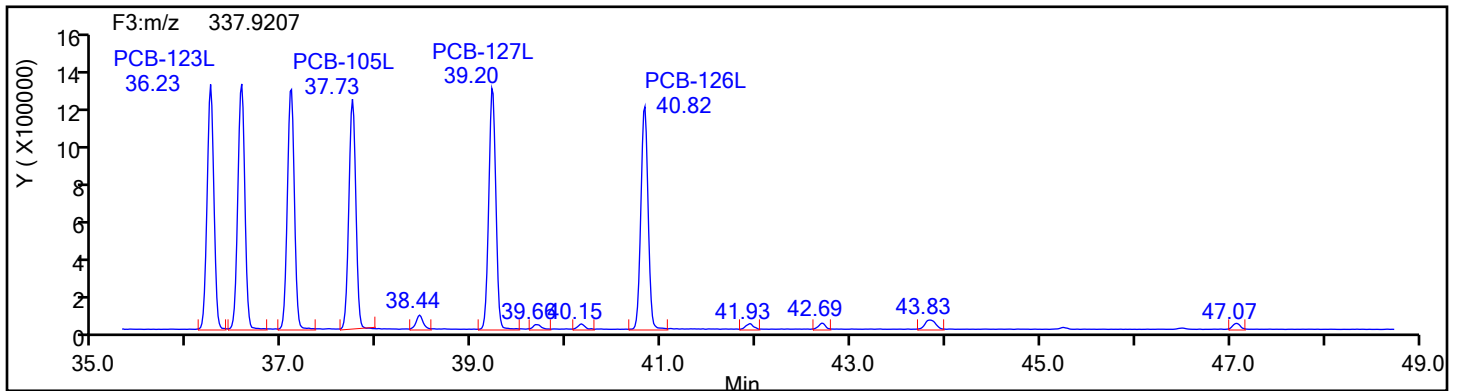
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

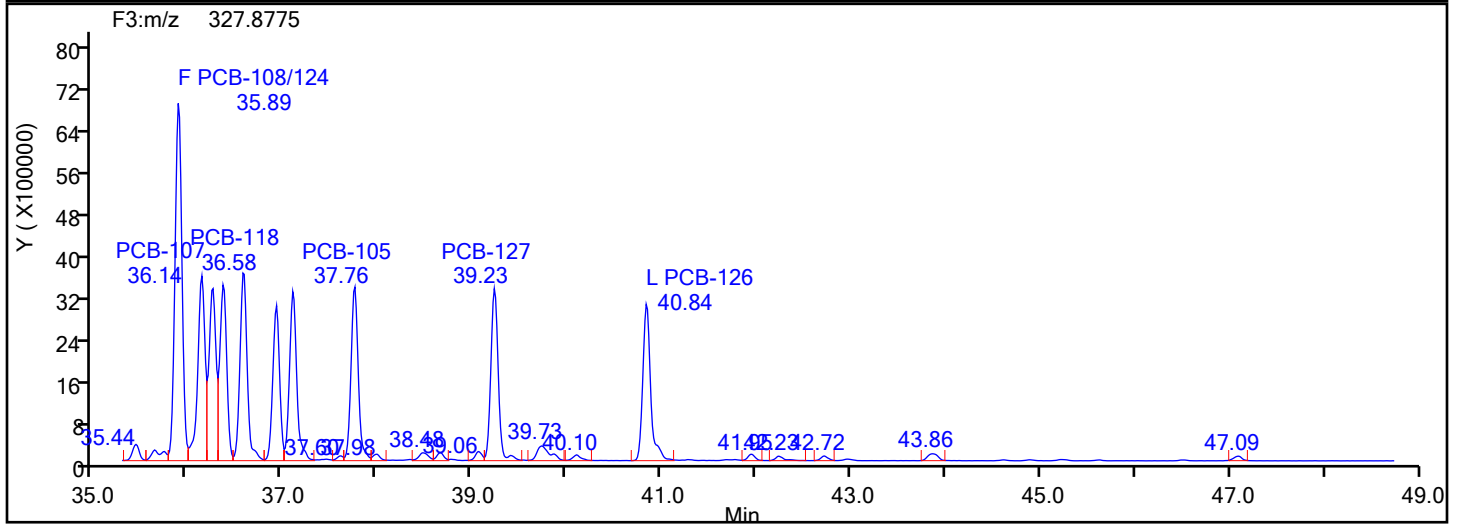
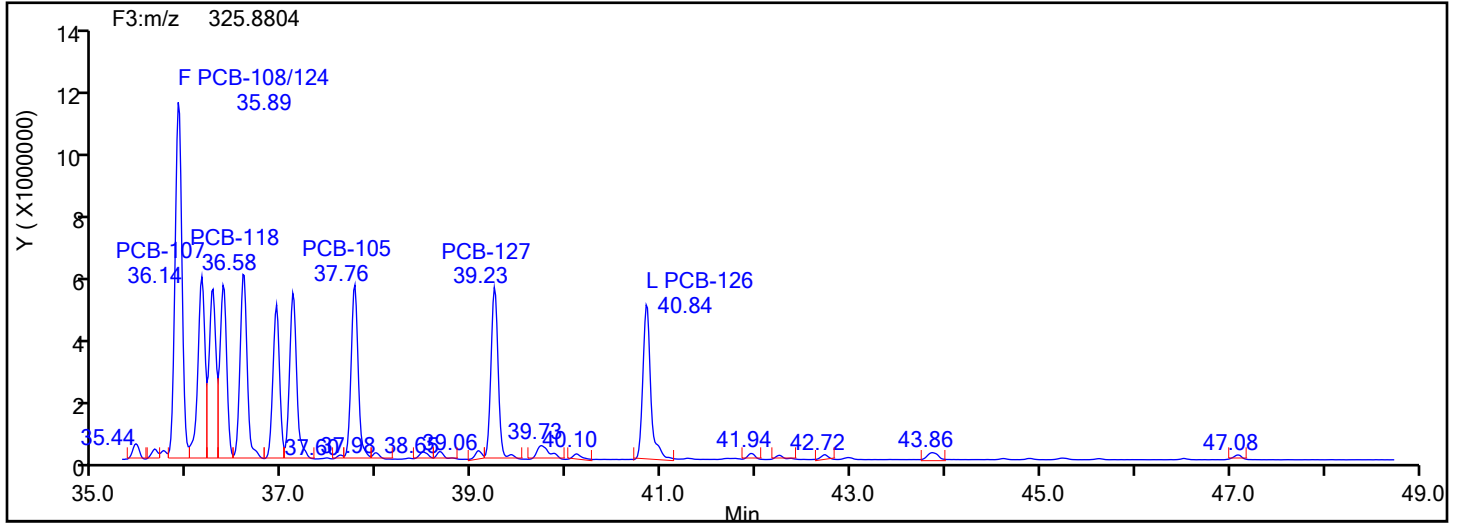
Worklist#: 87130

Sample Line#: 5

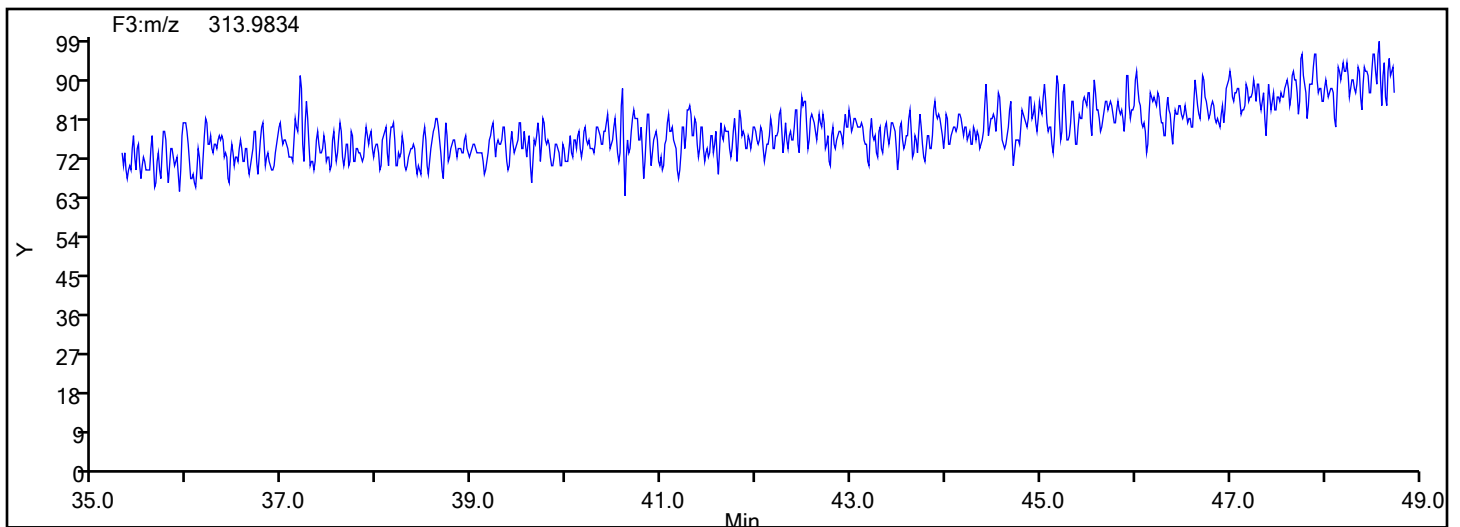
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

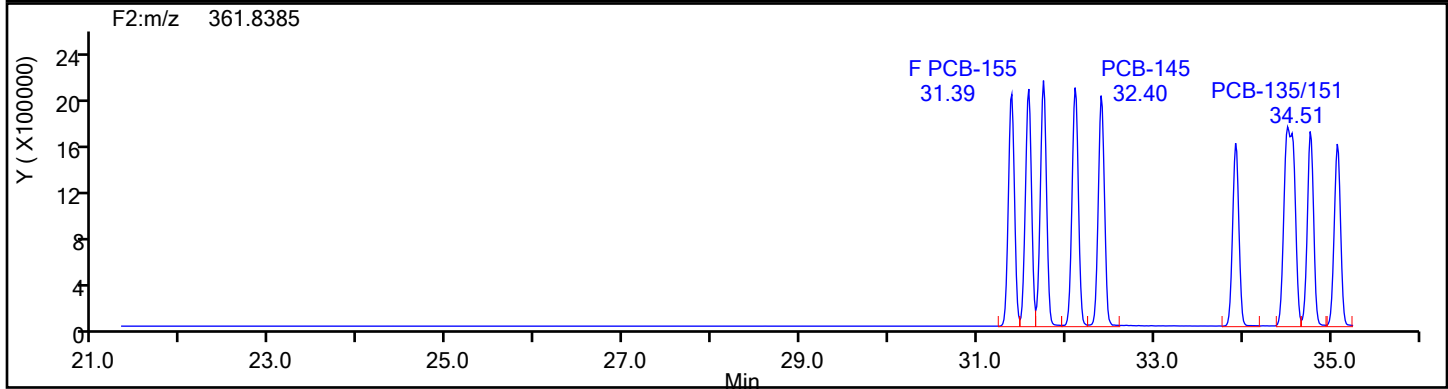
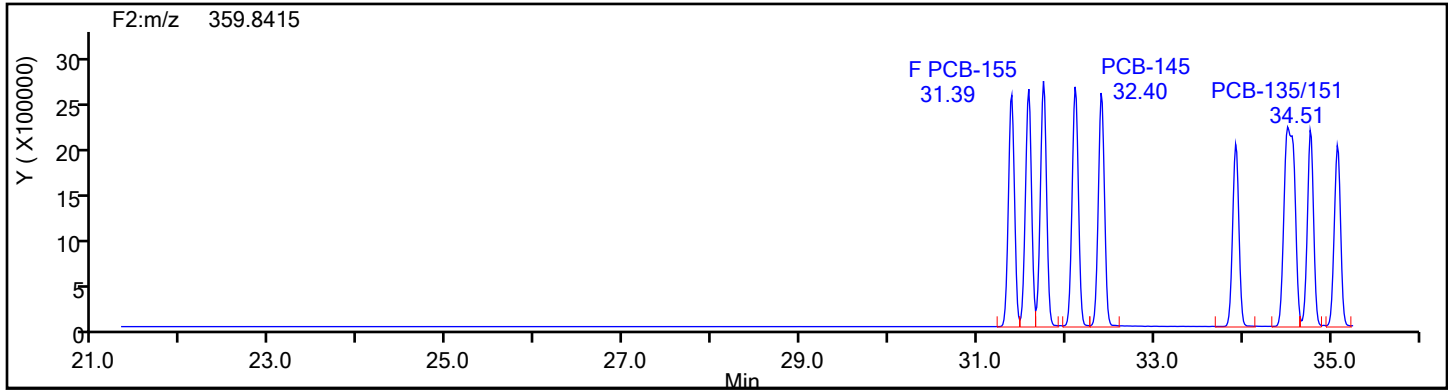


PePCB F3 Lock Mass

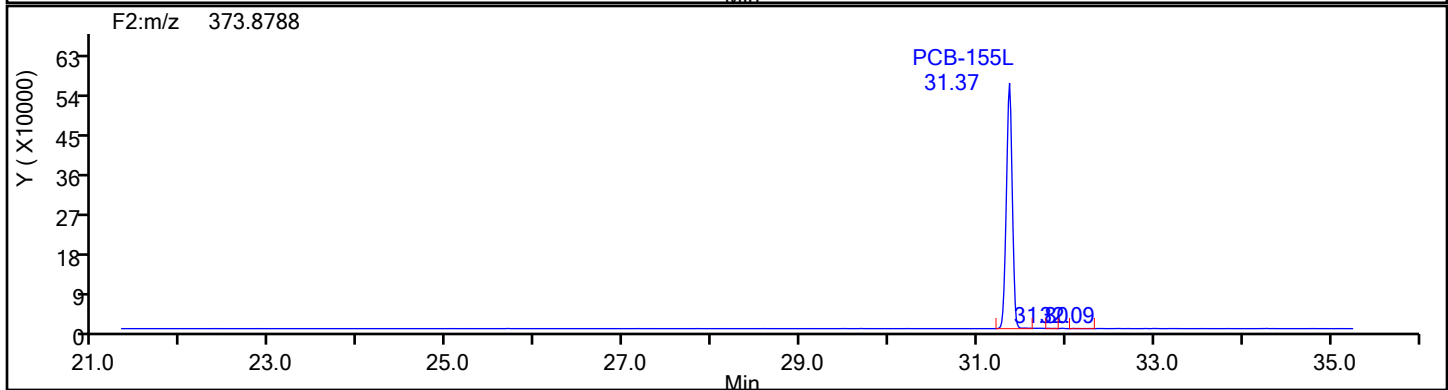
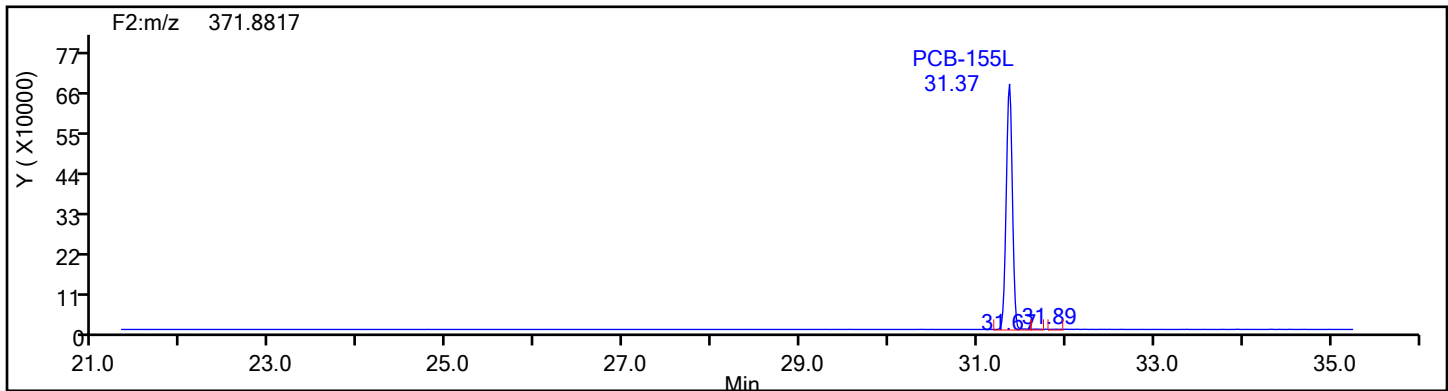


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

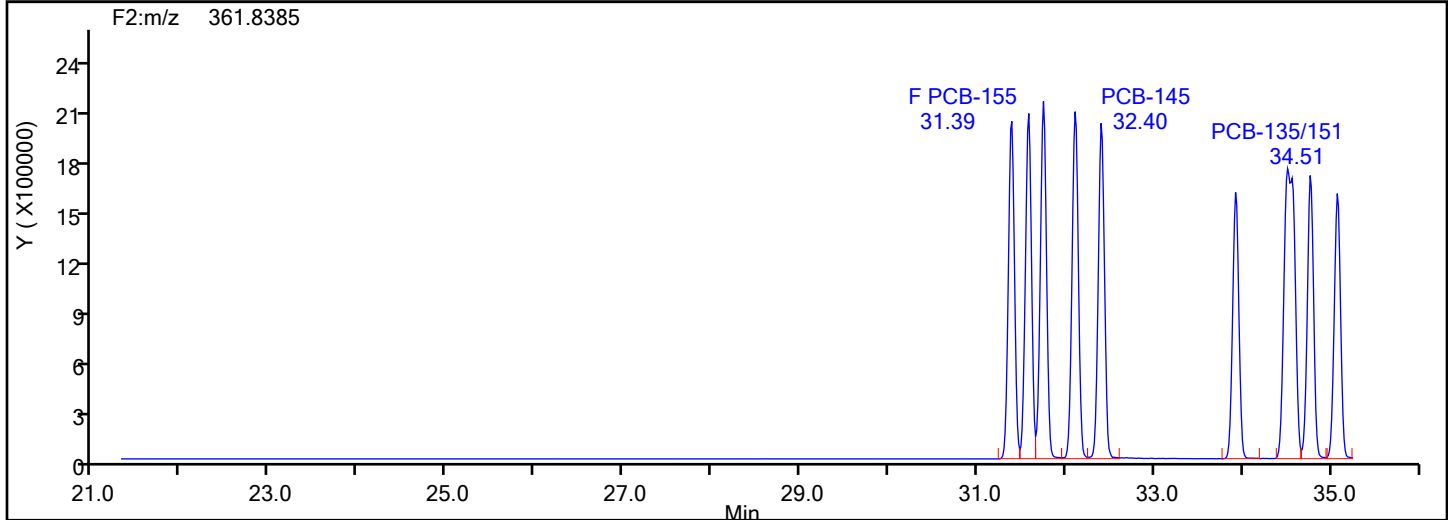
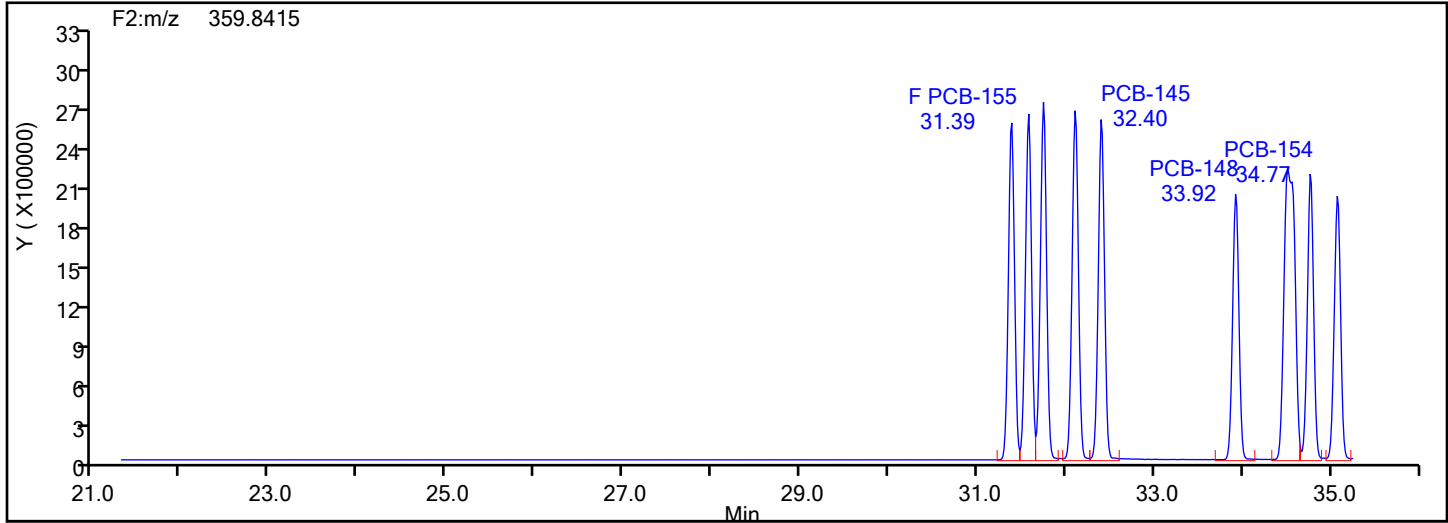


HxPCB F2 Standards

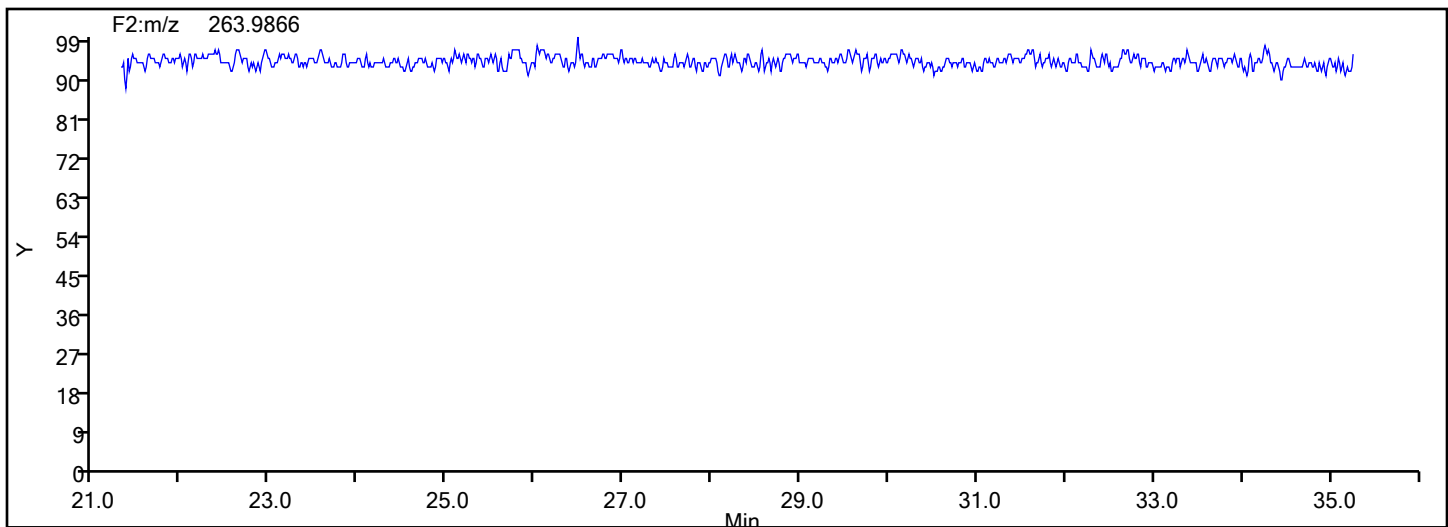


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

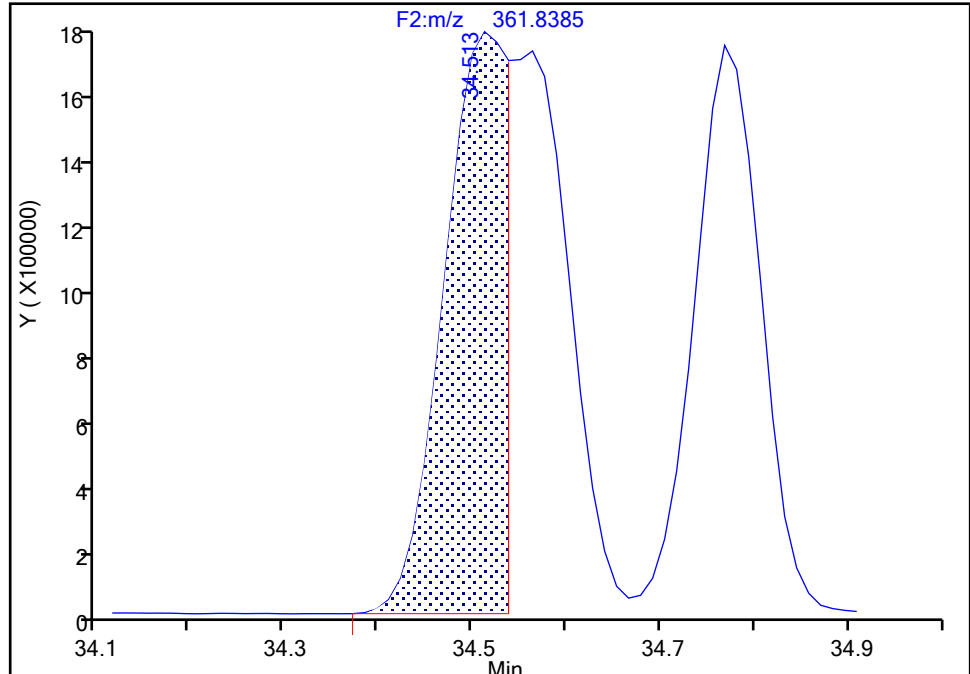
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

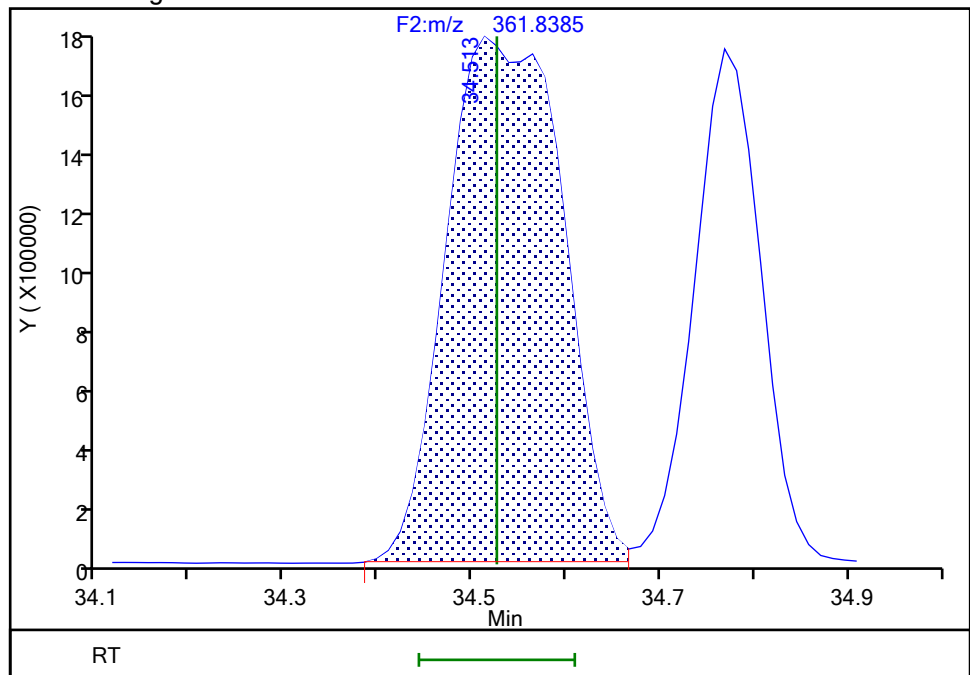
RT: 34.51
Area: 7808092
Amount: 713.7008
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 15053955
Amount: 798.2296
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

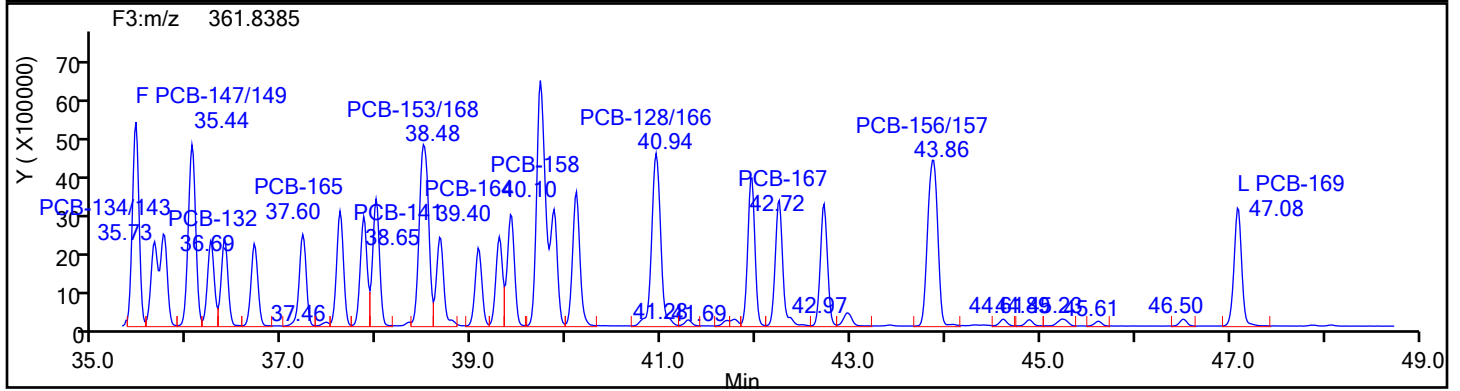
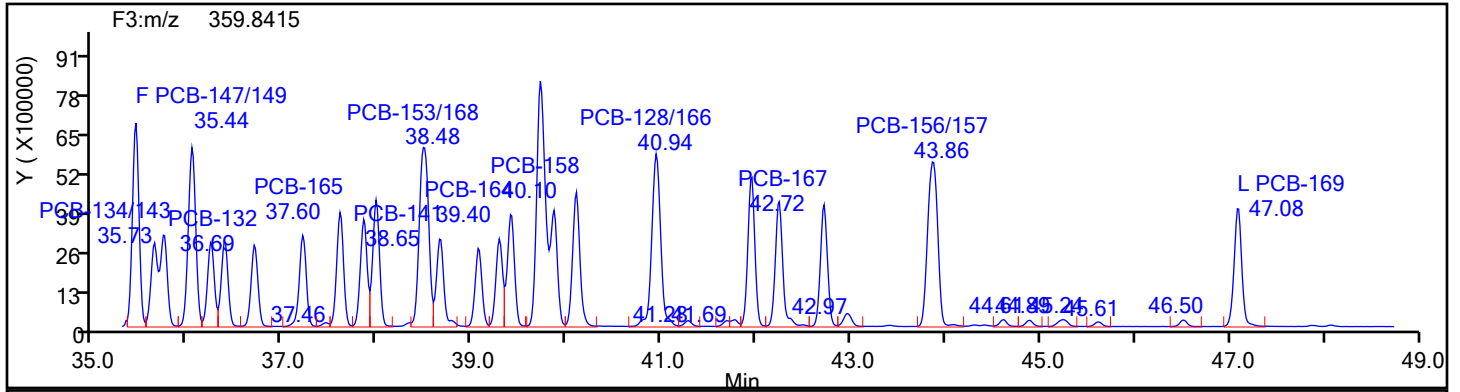
Worklist#: 87130

Sample Line#: 5

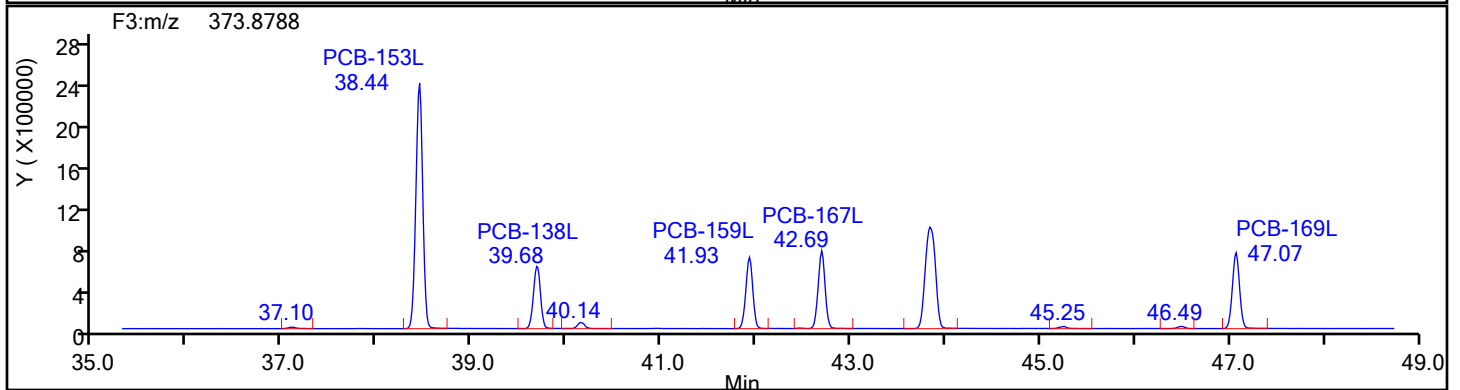
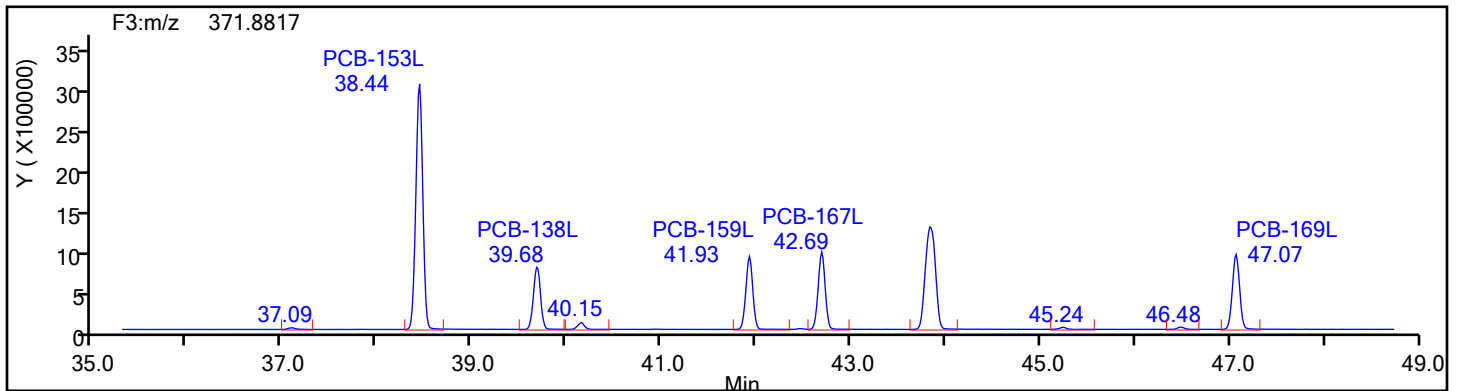
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

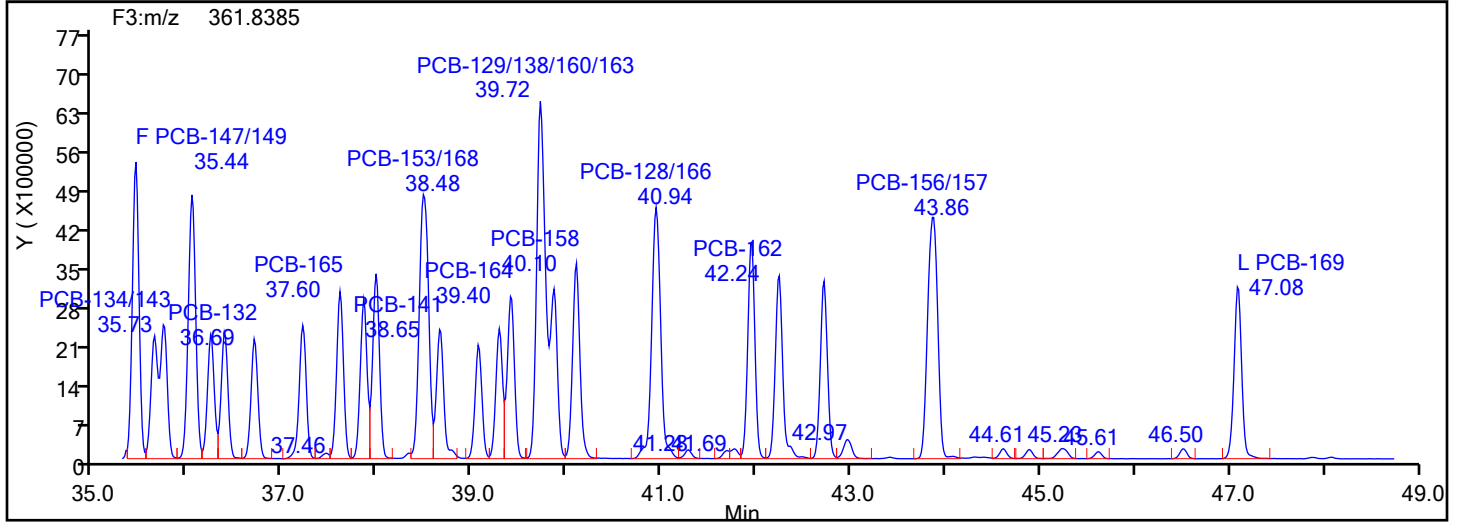
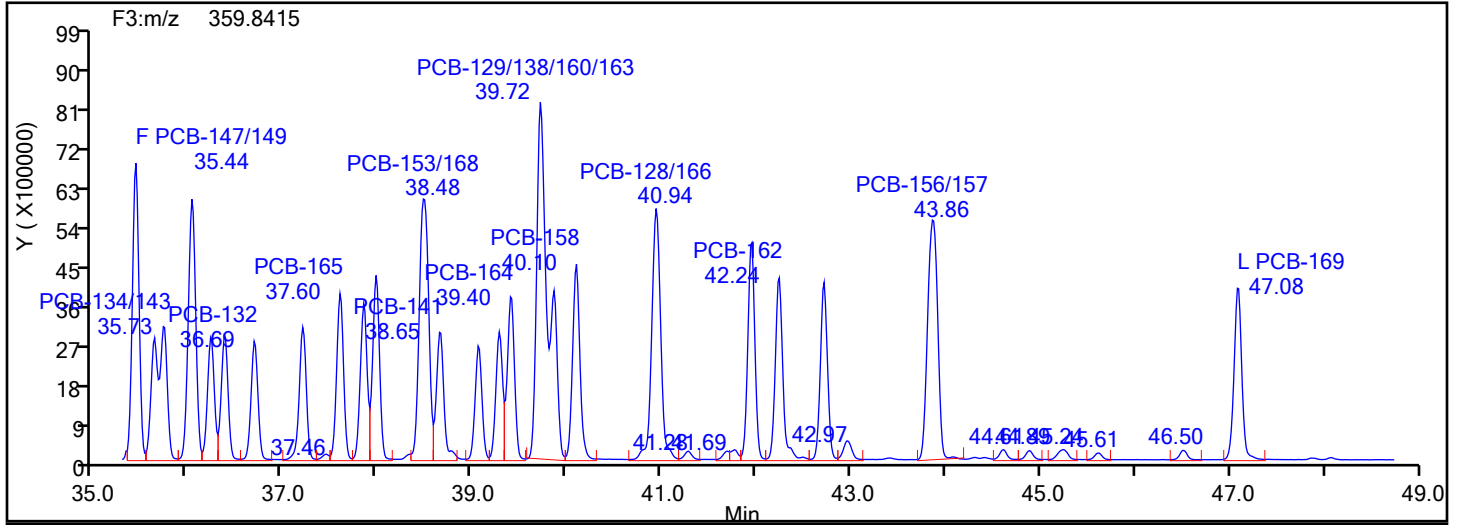
Worklist#: 87130

Sample Line#: 5

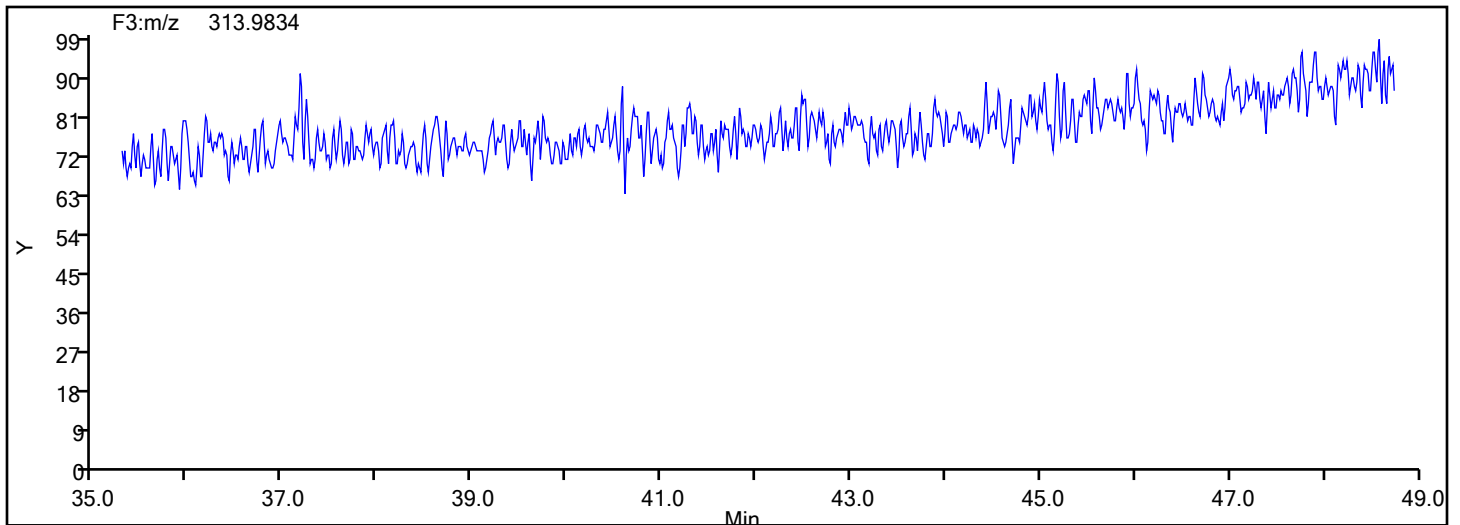
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

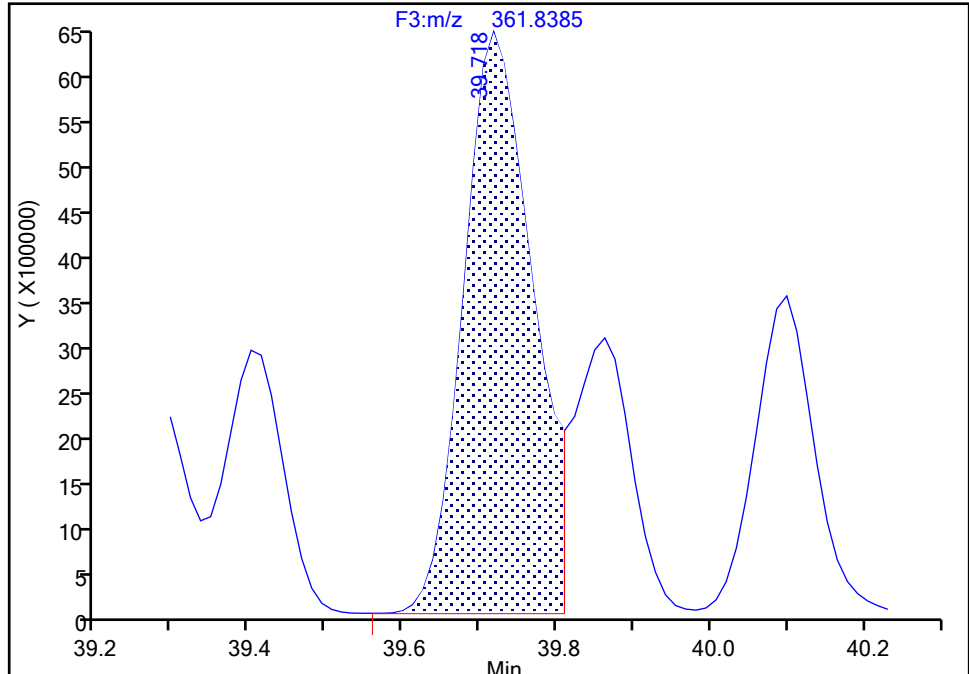
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

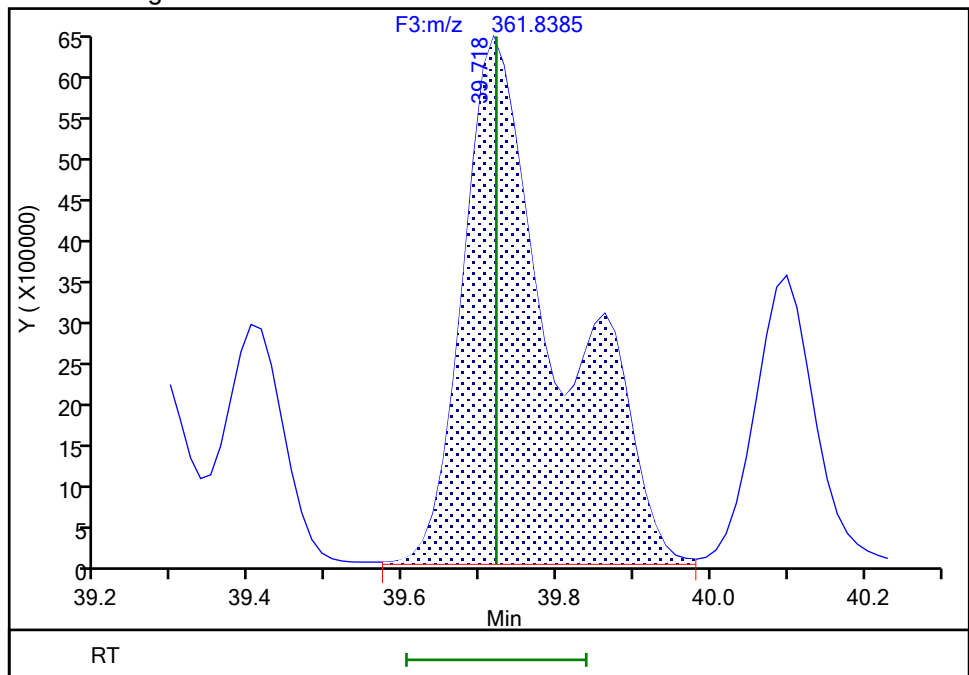
RT: 39.72
Area: 40418410
Amount: 1242.9142
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 56283132
Amount: 1566.2464
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

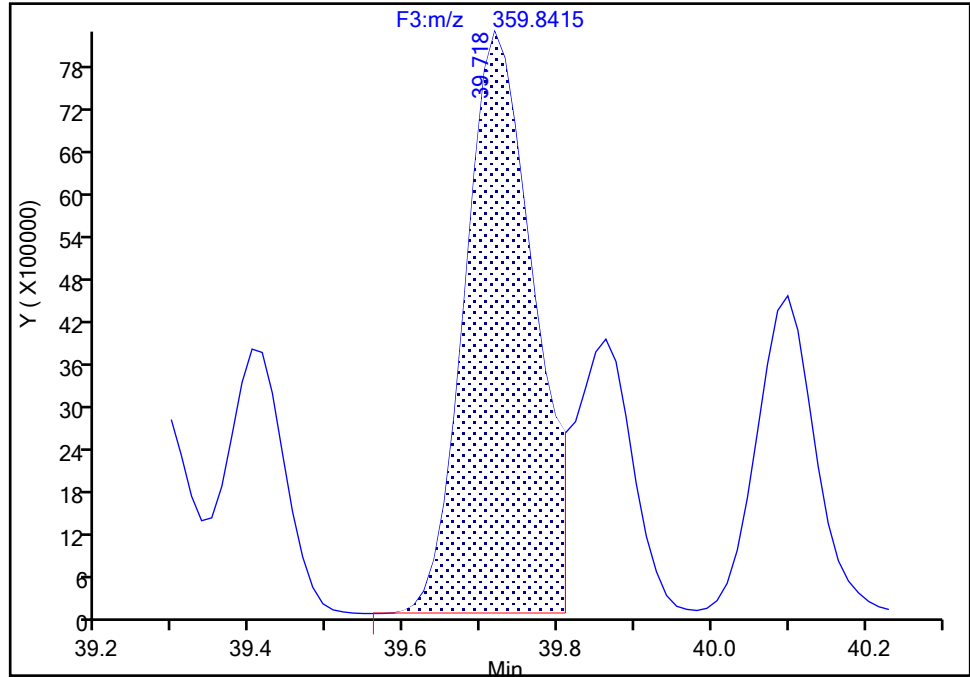
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

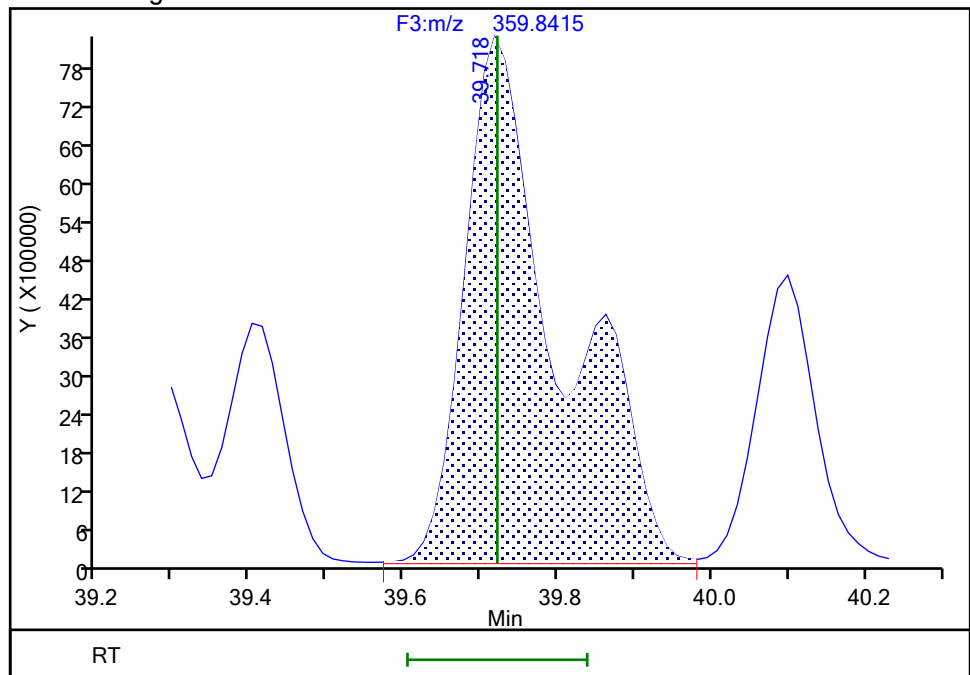
RT: 39.72
Area: 51062148
Amount: 1242.9142
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 70852247
Amount: 1566.2464
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2180 of 3050

BASFWC-McIntosh-010181

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

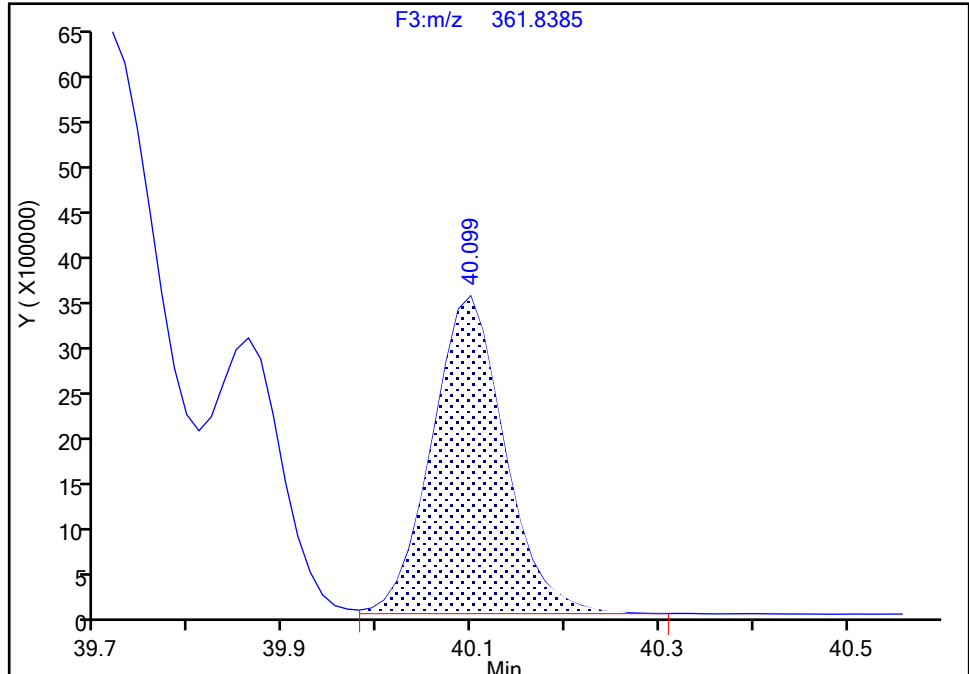
Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 2

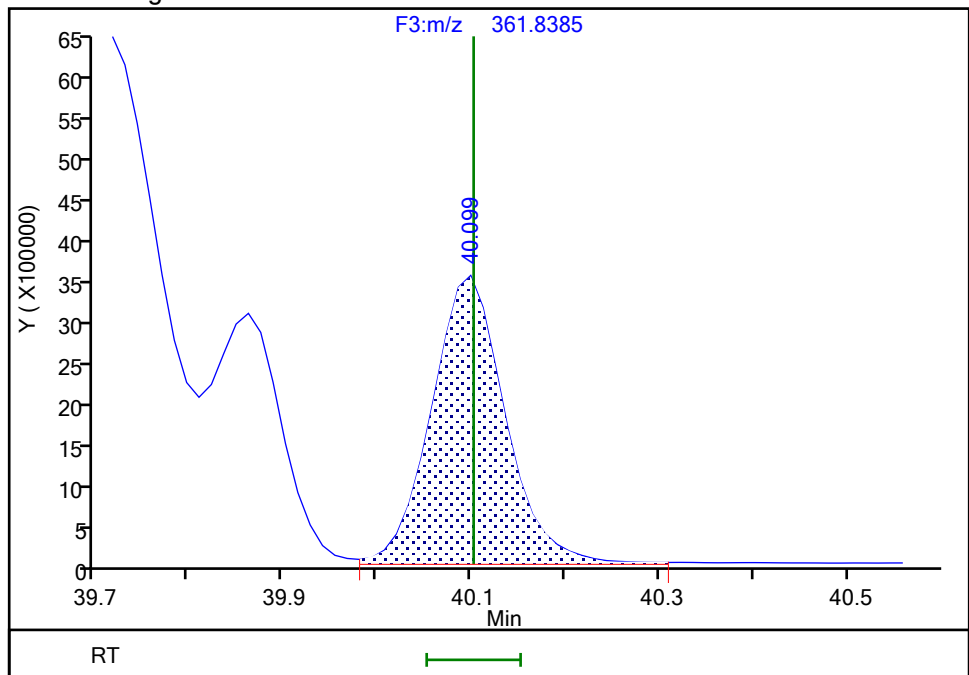
RT: 40.10
Area: 19147696
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



RT: 40.10
Area: 19147696
Amount: 386.1452
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

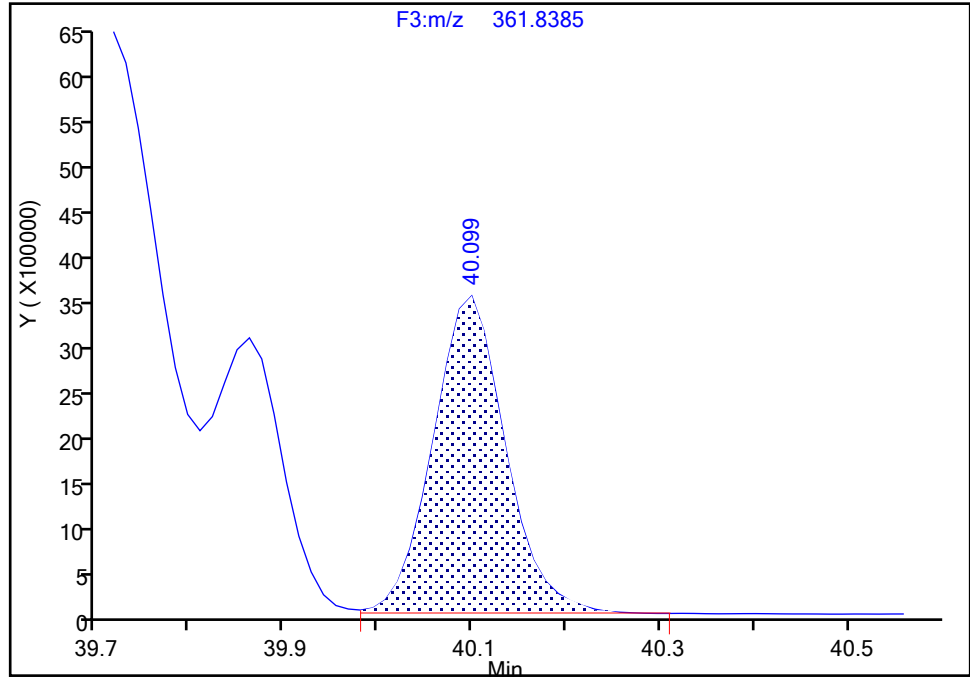
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 3

RT: 40.10
Area: 43296990
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 40.10
Area: 43420955
Amount: 386.1452
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

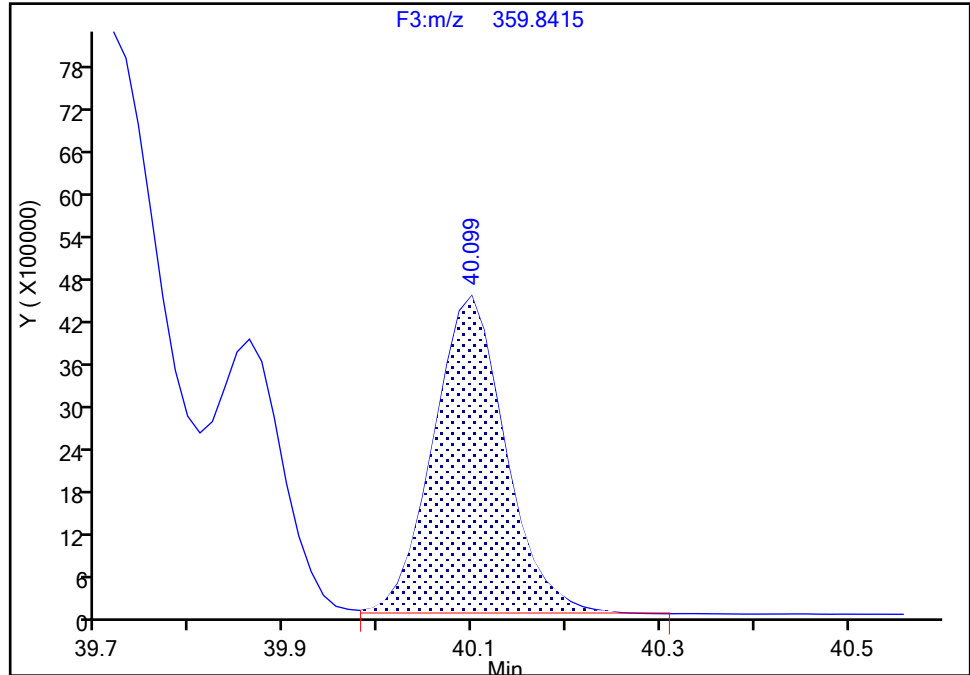
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-158, CAS: 74472-42-7

Signal: 1

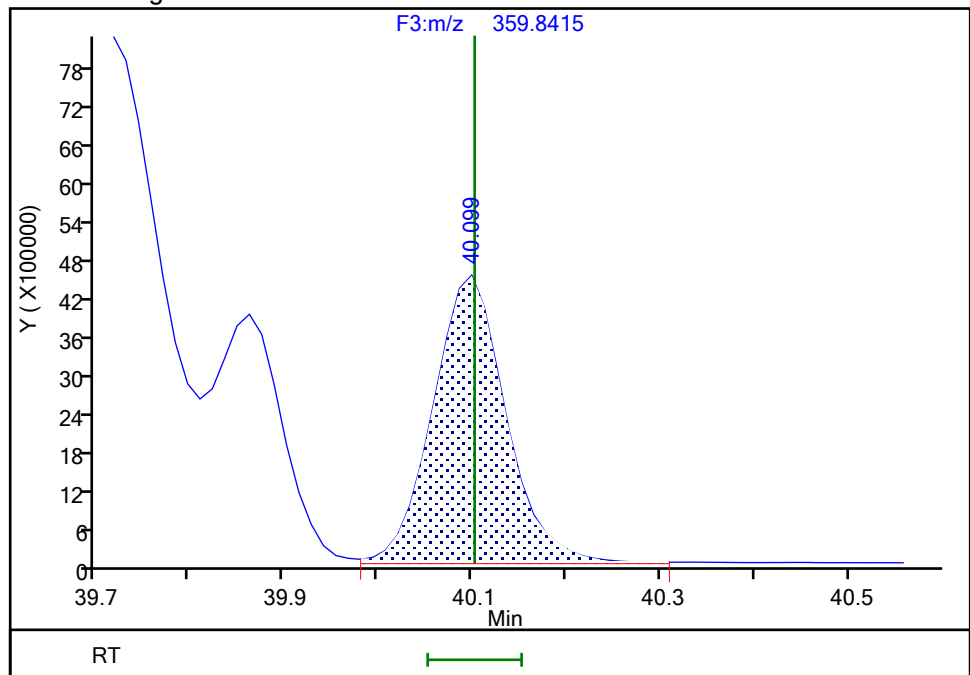
RT: 40.10
Area: 24149294
Amount: 385.2197
Amount Units: pg/ul

Processing Integration Results



RT: 40.10
Area: 24273259
Amount: 386.1452
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:11 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

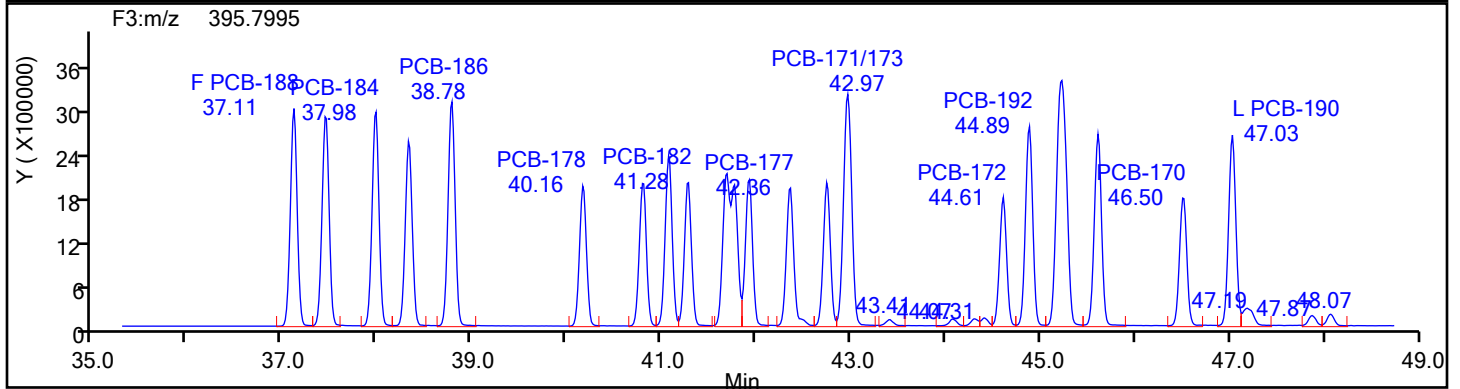
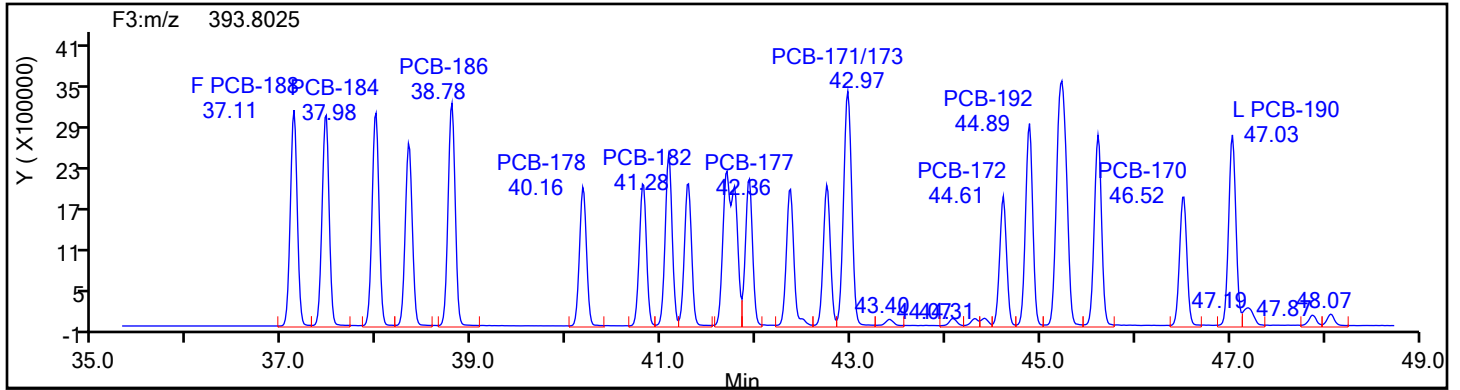
Worklist#: 87130

Sample Line#: 5

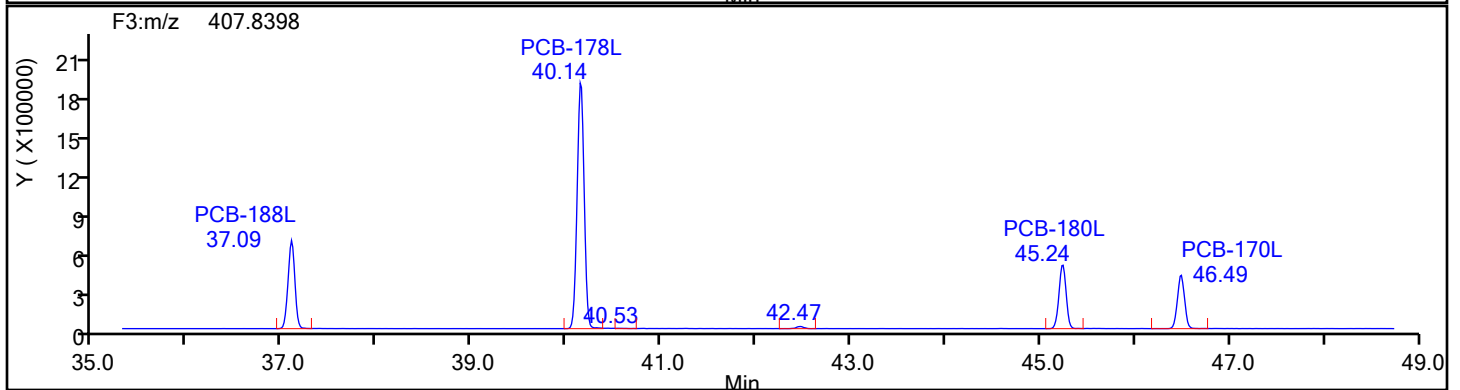
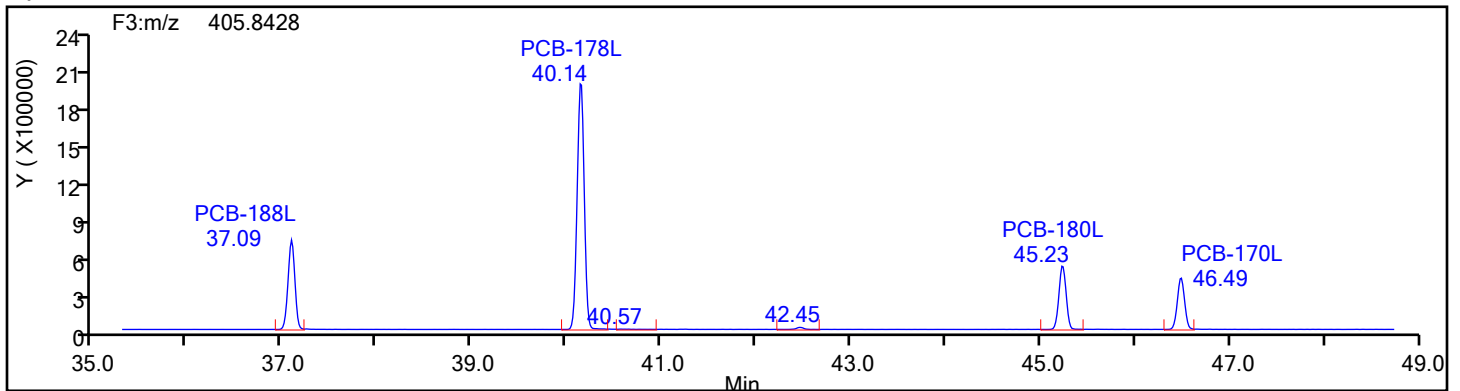
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

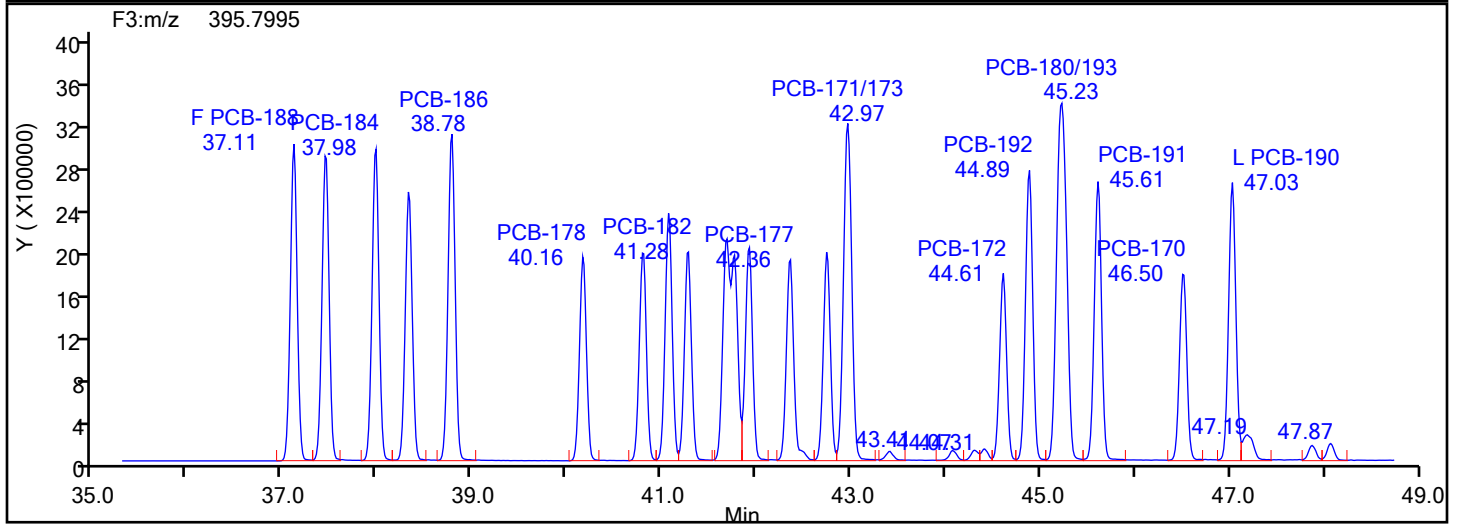
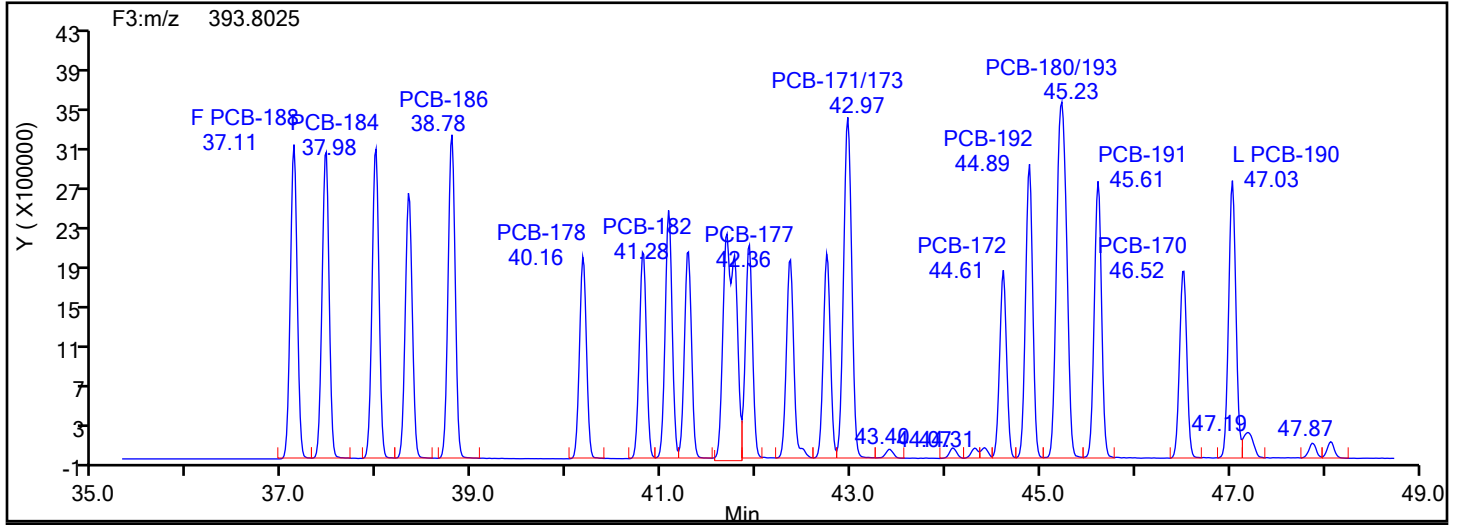
Worklist#: 87130

Sample Line#: 5

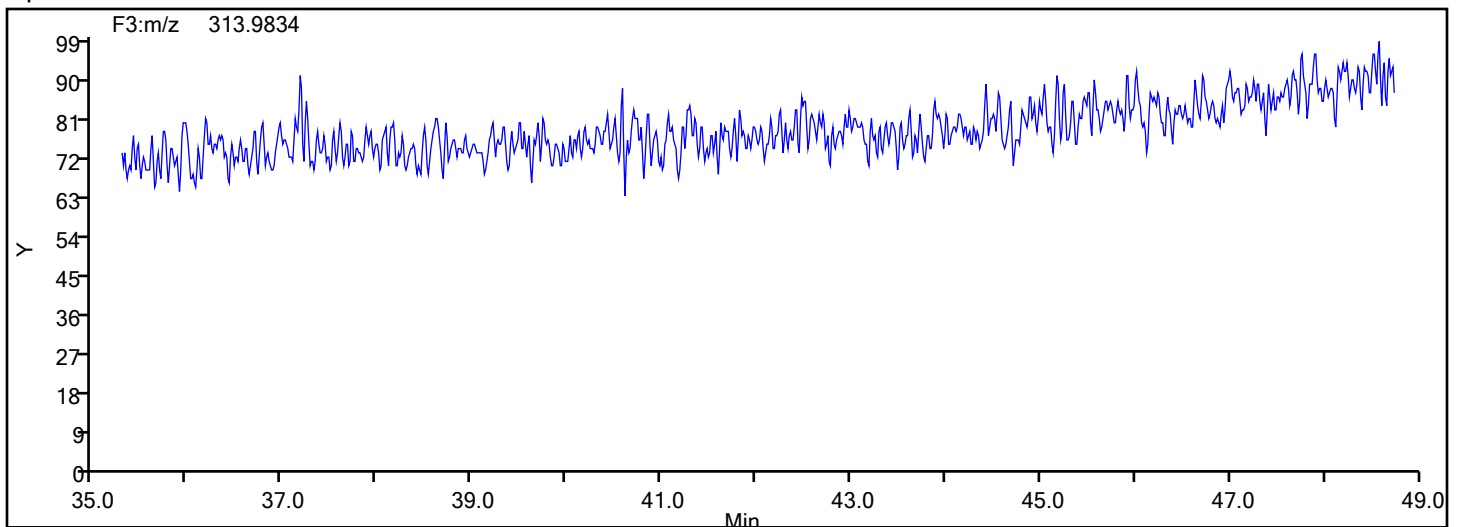
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

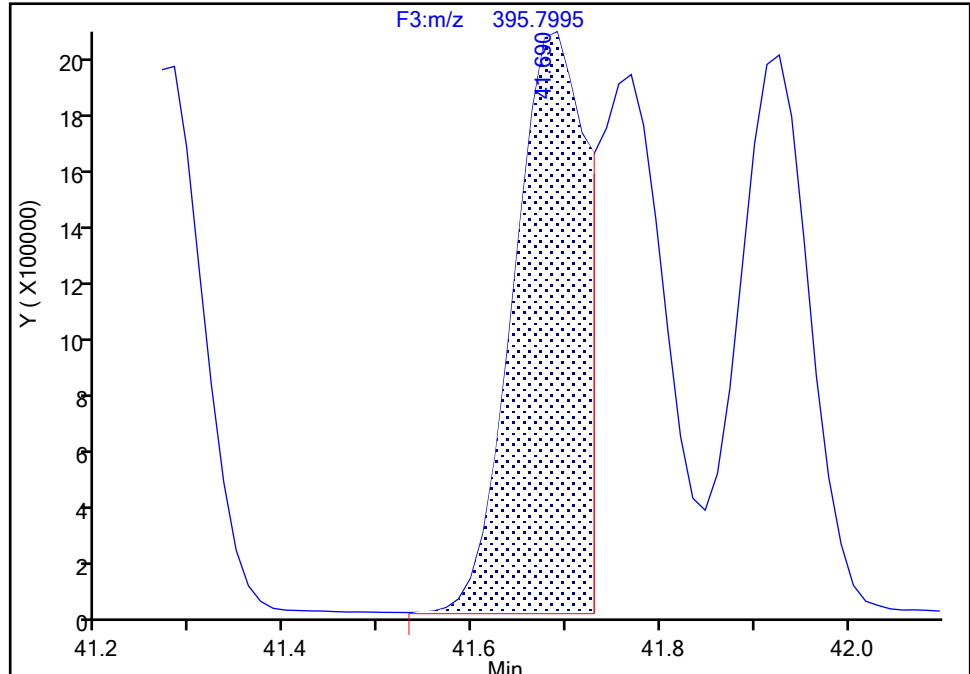
Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

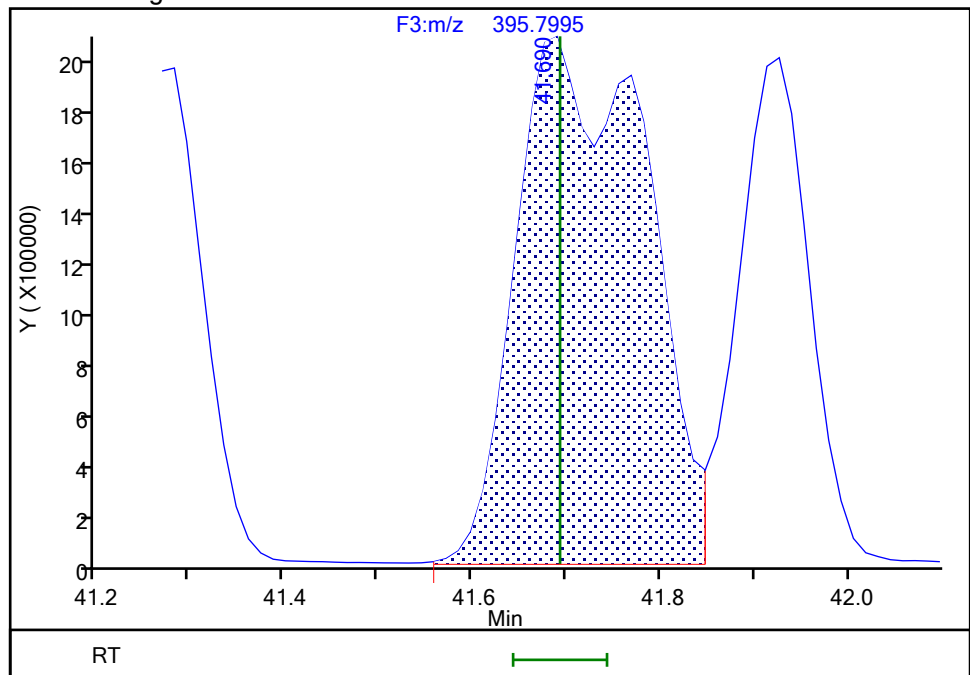
RT: 41.69
Area: 10997351
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 20232904
Amount: 747.8180
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

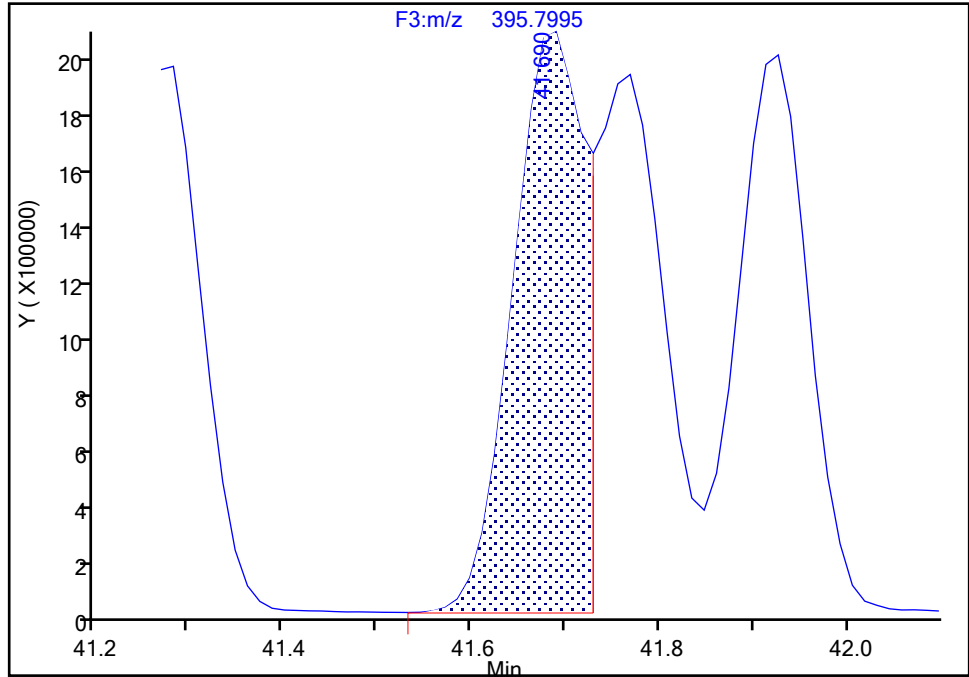
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

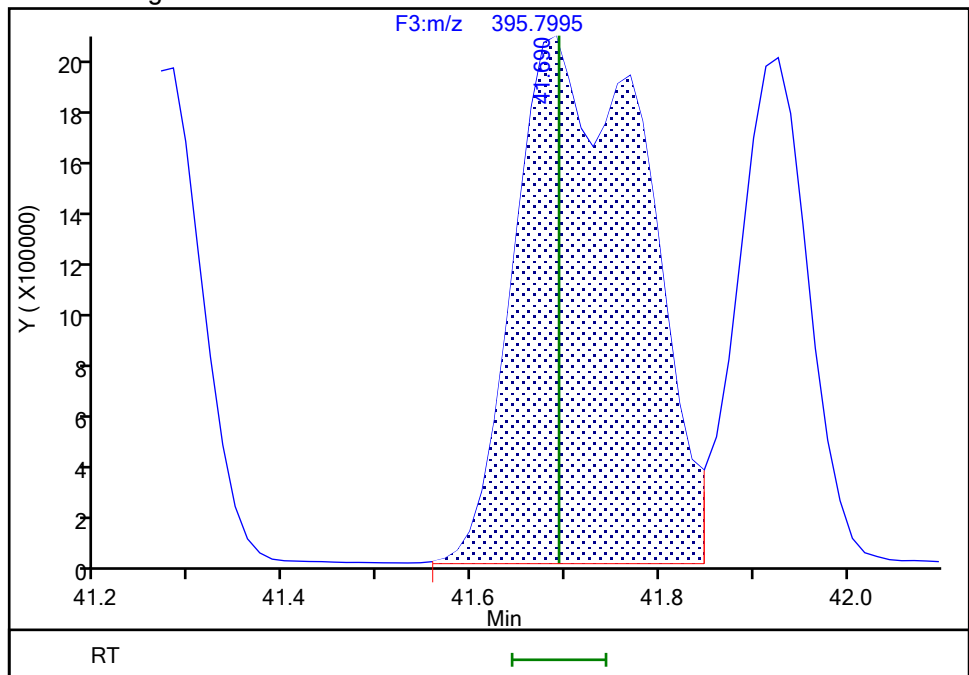
RT: 41.69
Area: 10997351
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 20232904
Amount: 747.8180
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2187 of 3050

BASFWC-McIntosh-010188

9/6/2024

4:11:20 PM

Eurofins Knoxville

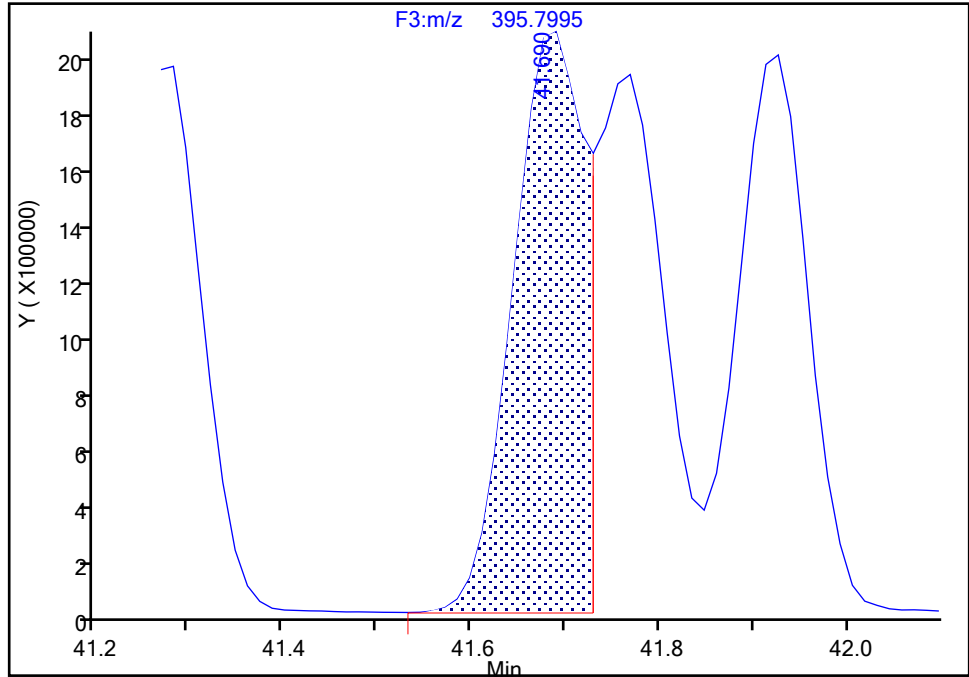
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D
Lims ID: IC L5
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 22664276
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 41853835
Amount: 747.8180
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

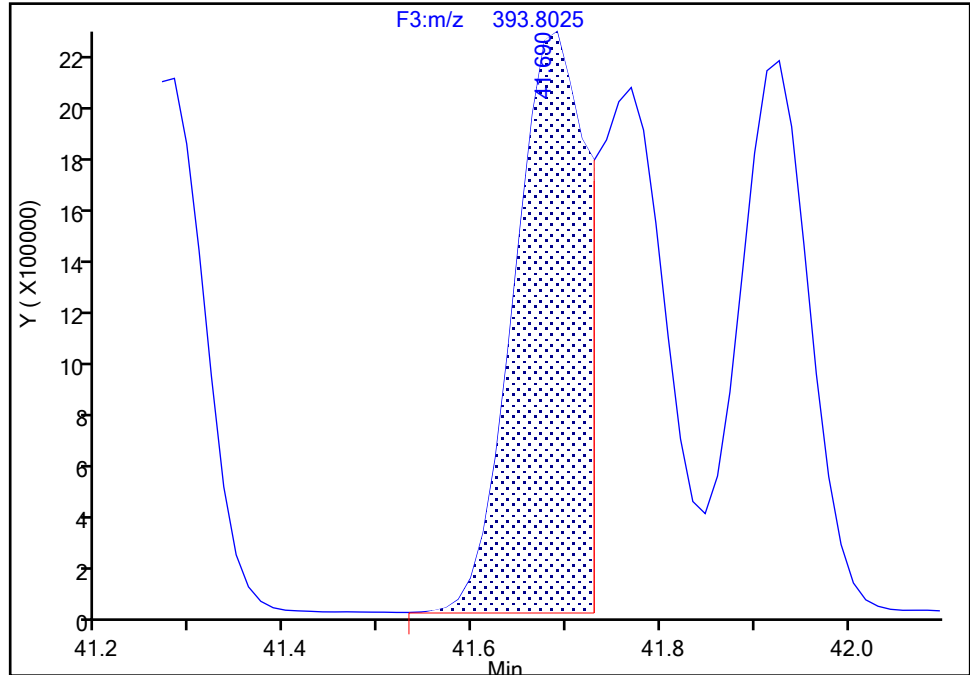
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

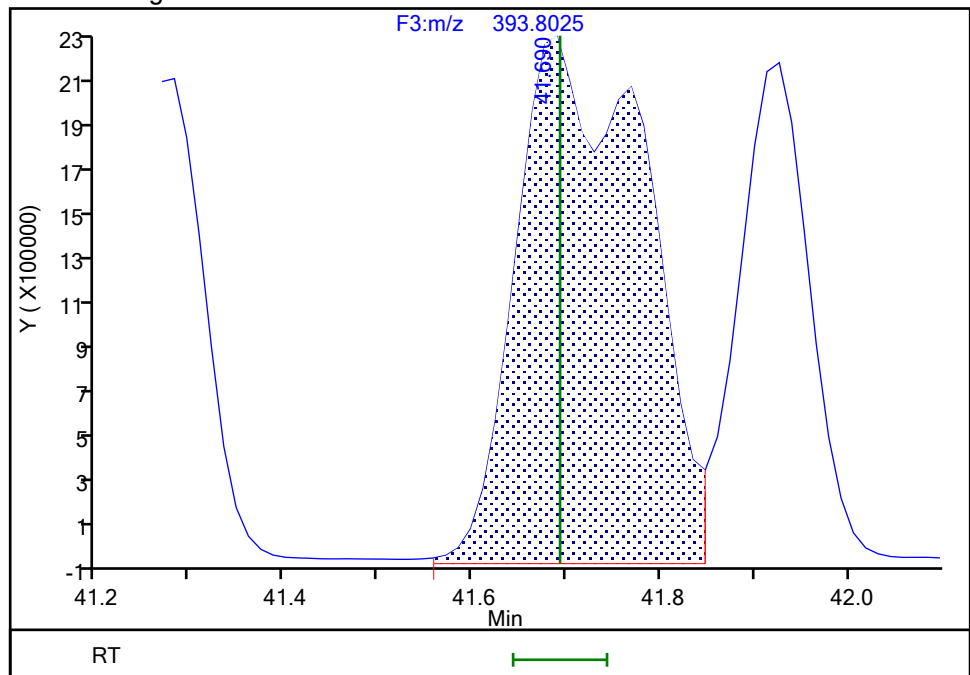
RT: 41.69
Area: 11666925
Amount: 473.7894
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 21620931
Amount: 747.8180
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:57 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 2189 of 3050

BASFWHC-McIntosh-010190

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

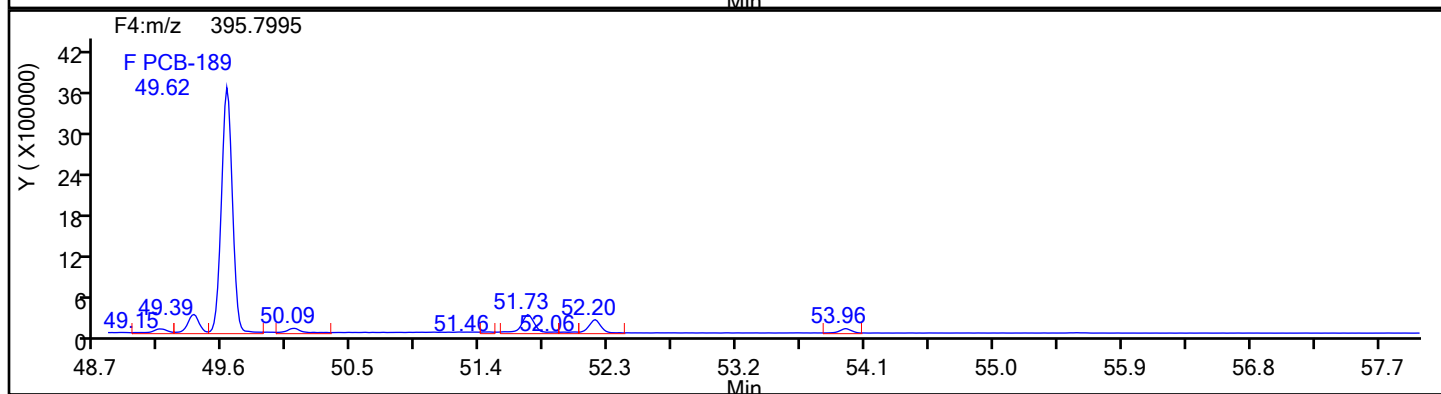
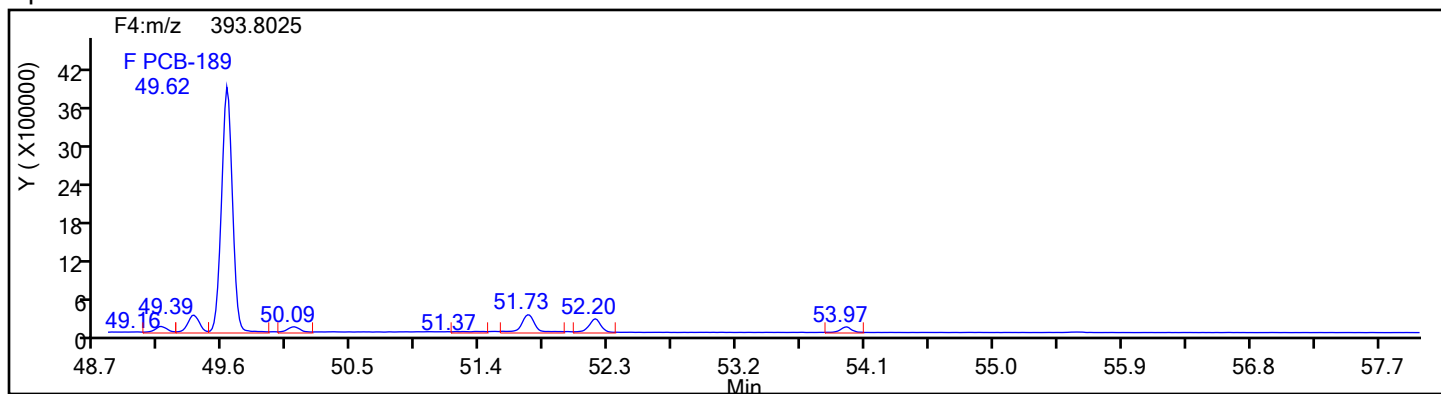
Worklist#: 87130

Sample Line#: 5

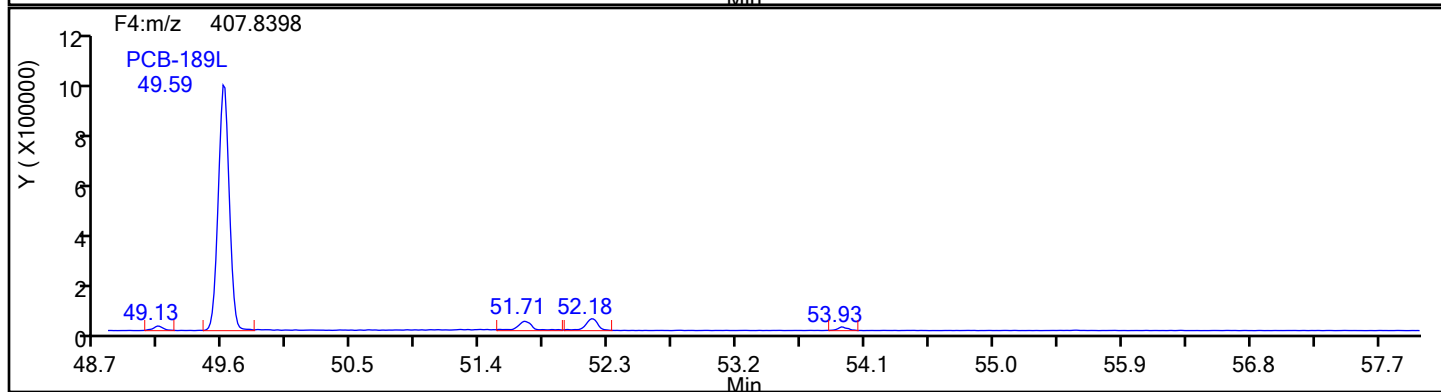
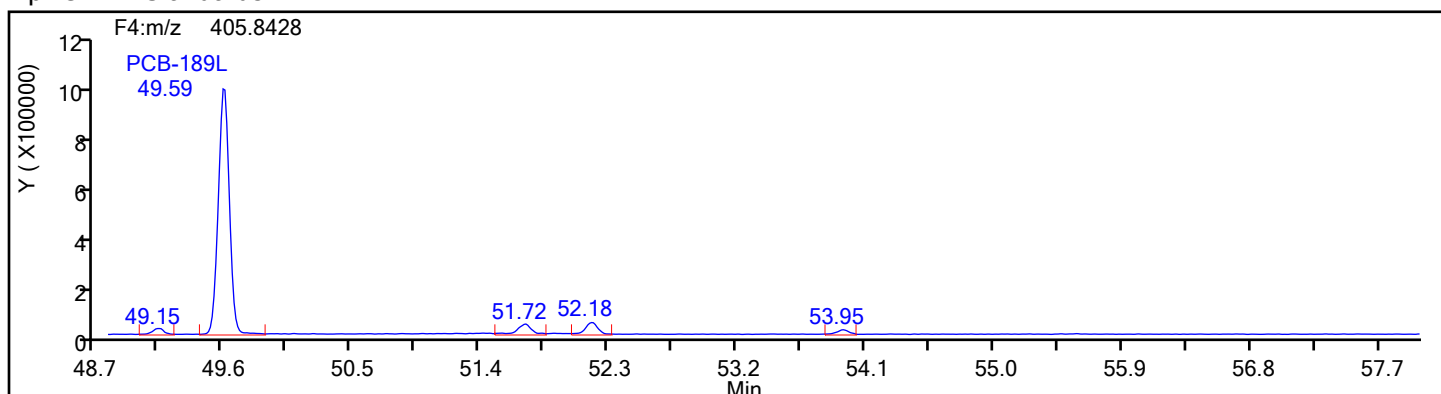
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

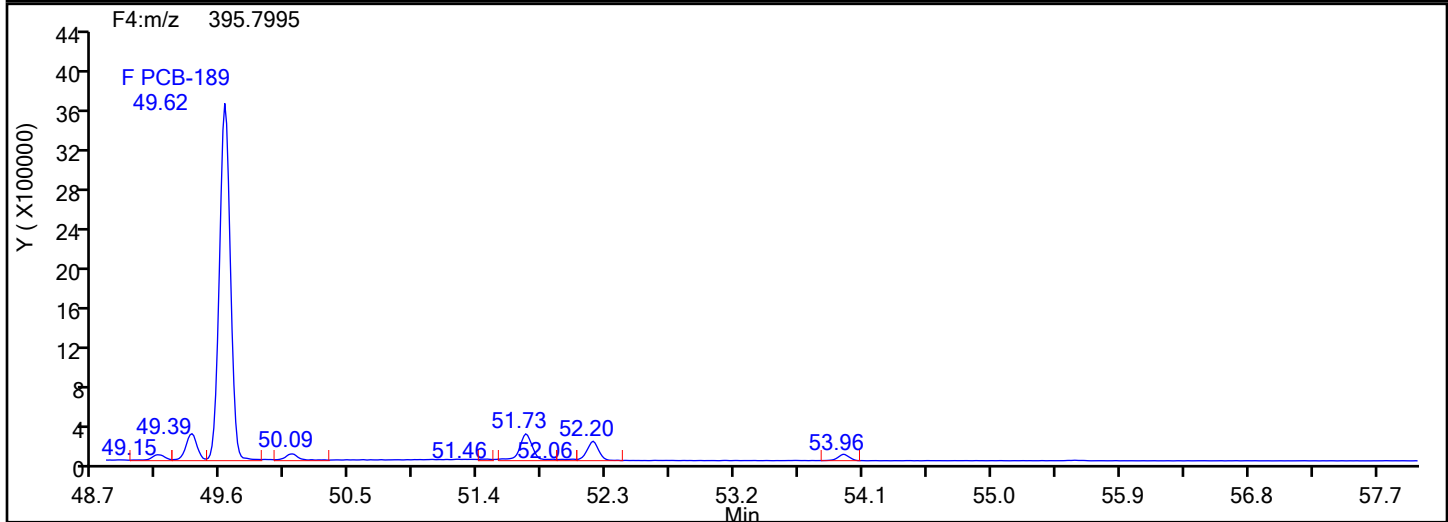
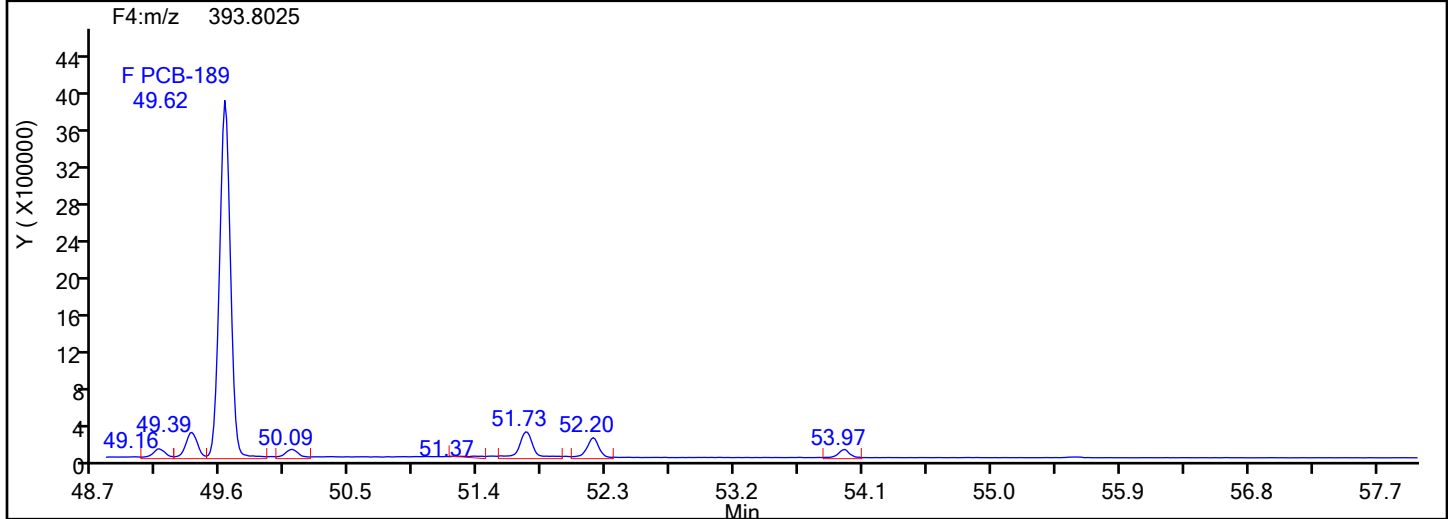
Worklist#: 87130

Sample Line#: 5

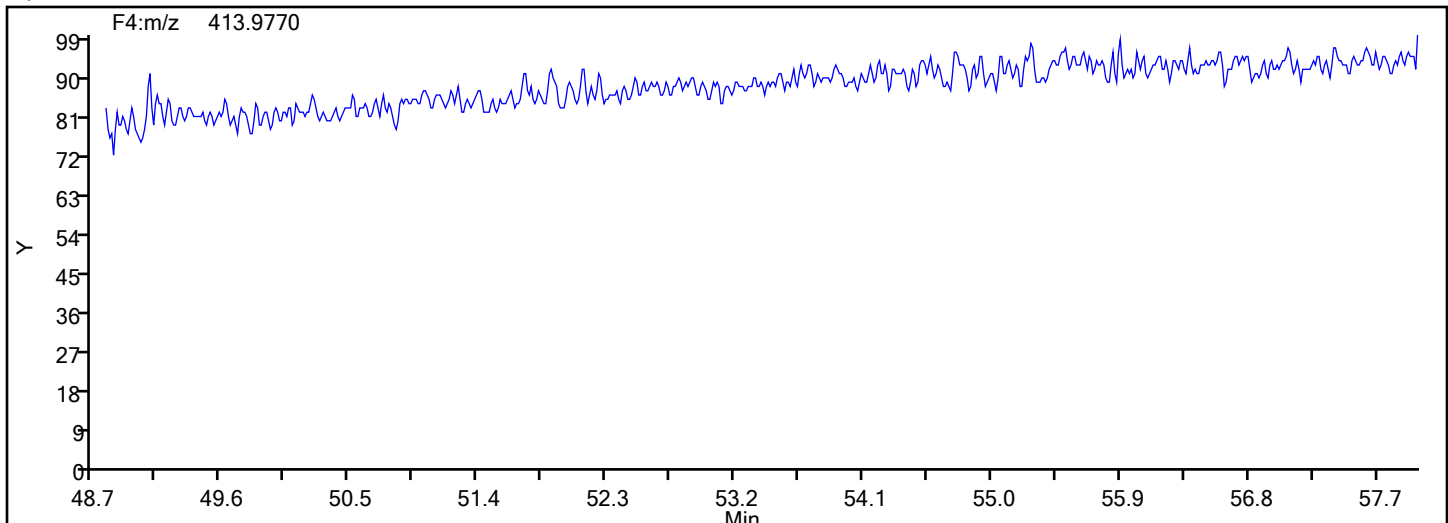
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

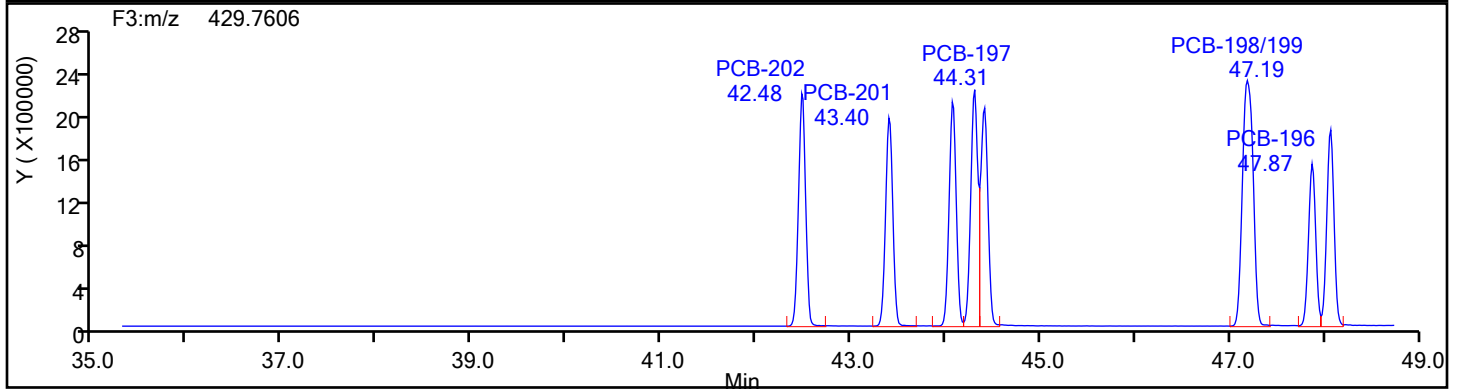
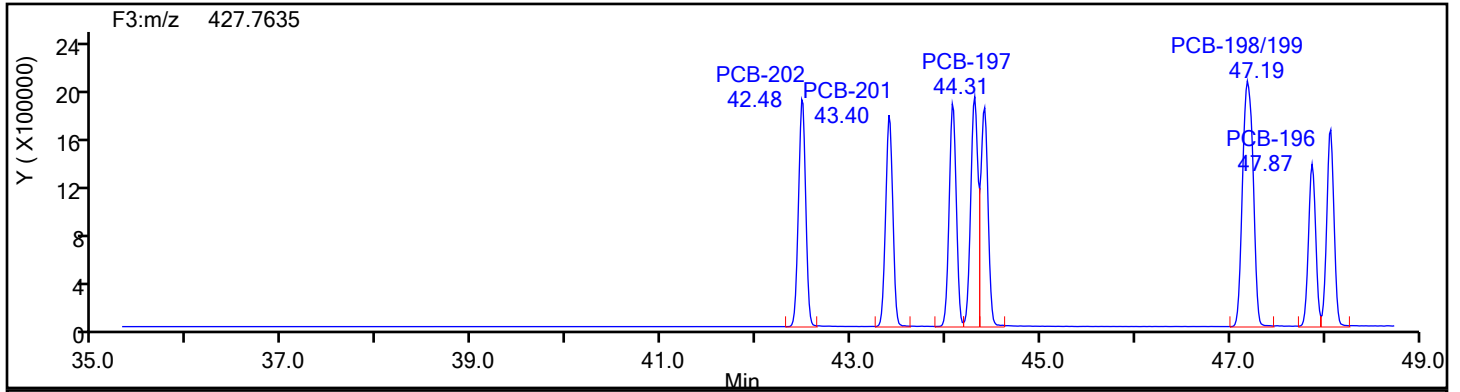
Worklist#: 87130

Sample Line#: 5

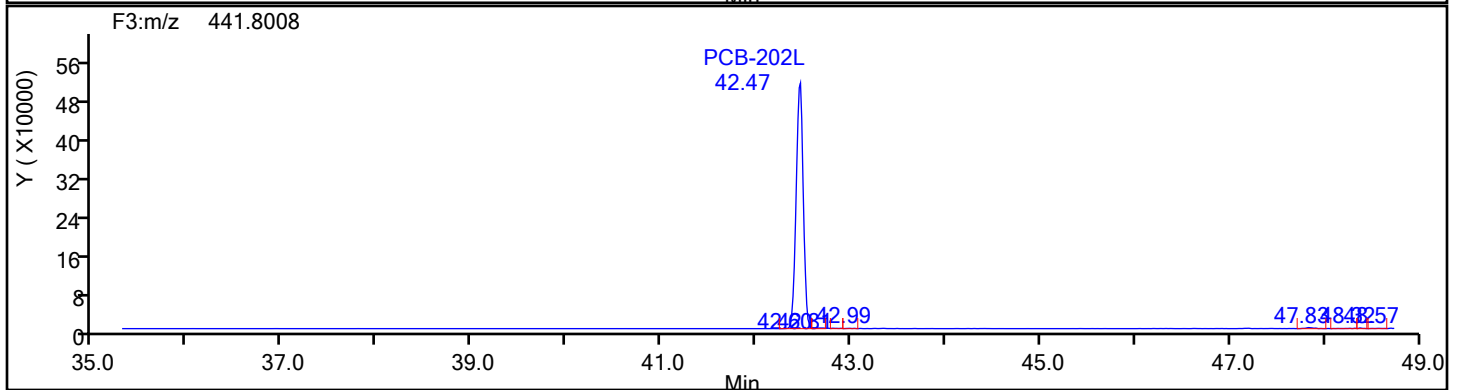
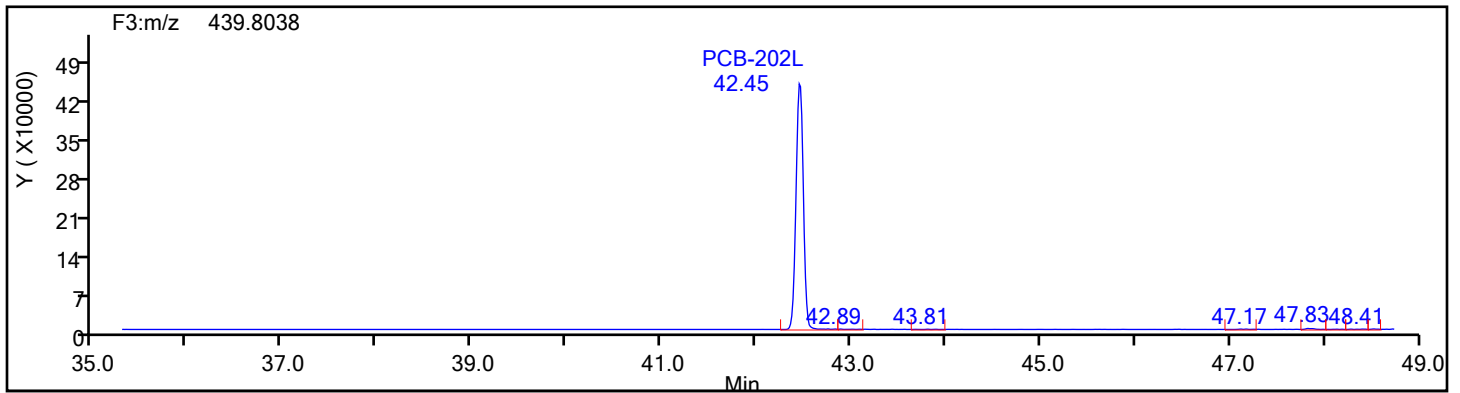
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

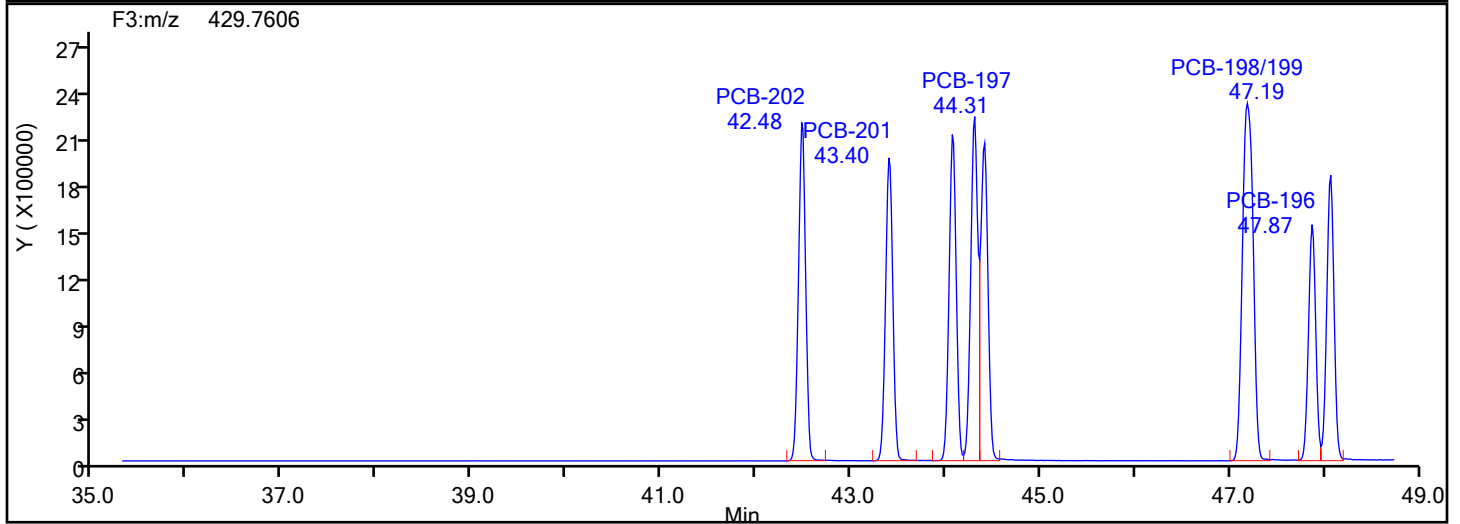
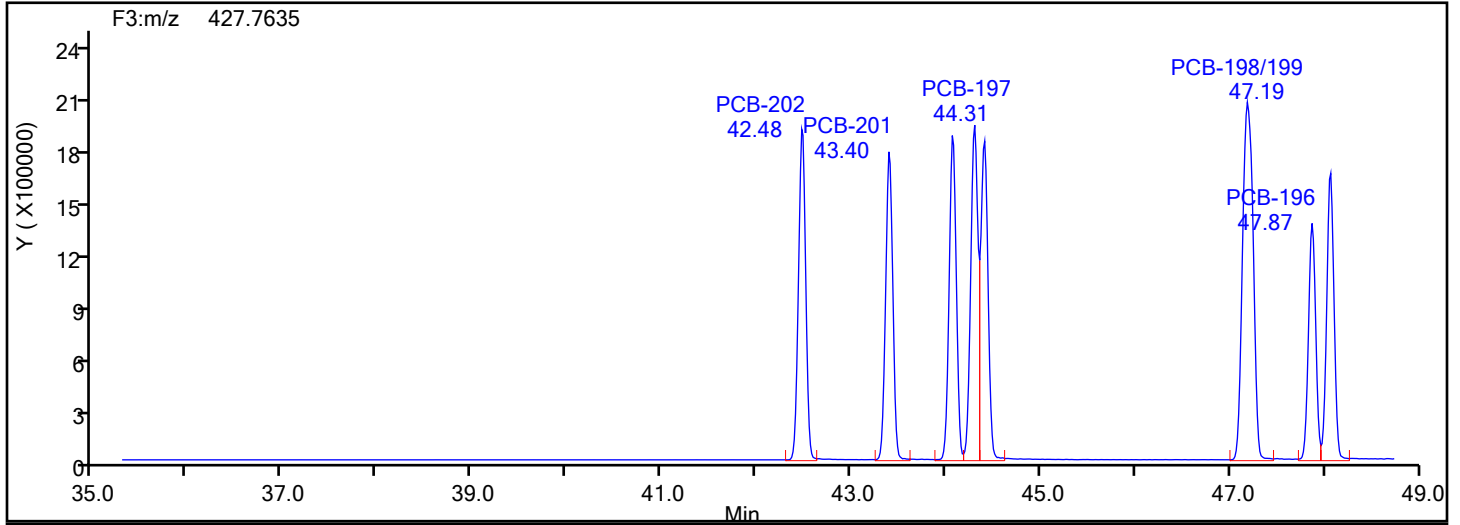


OcPCB F3 Standards

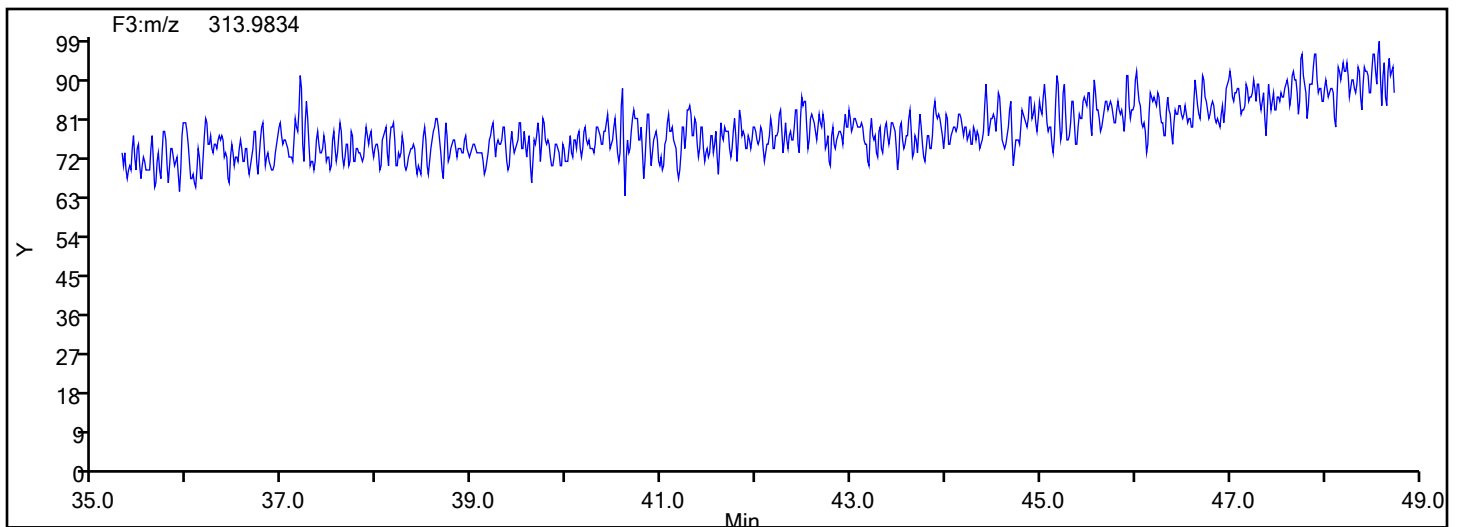


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

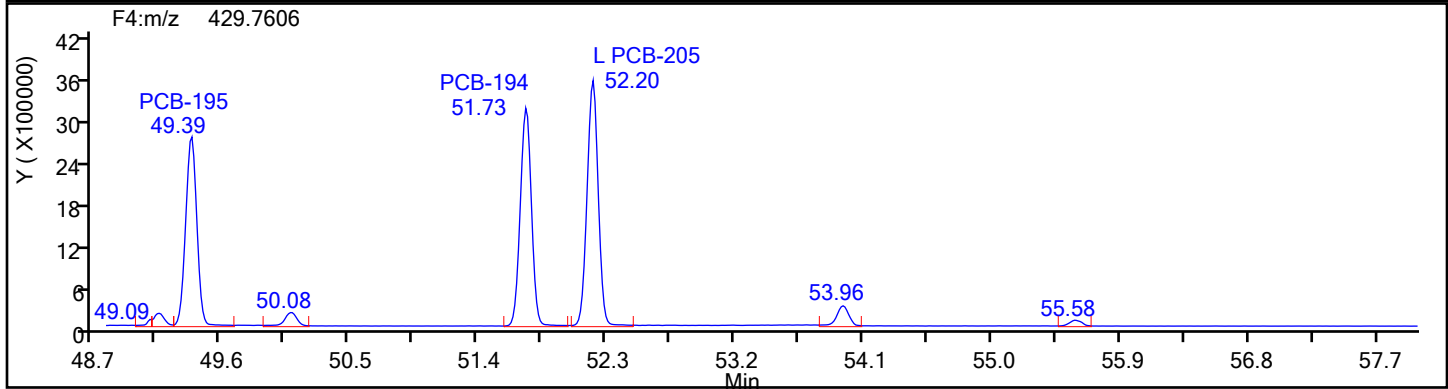
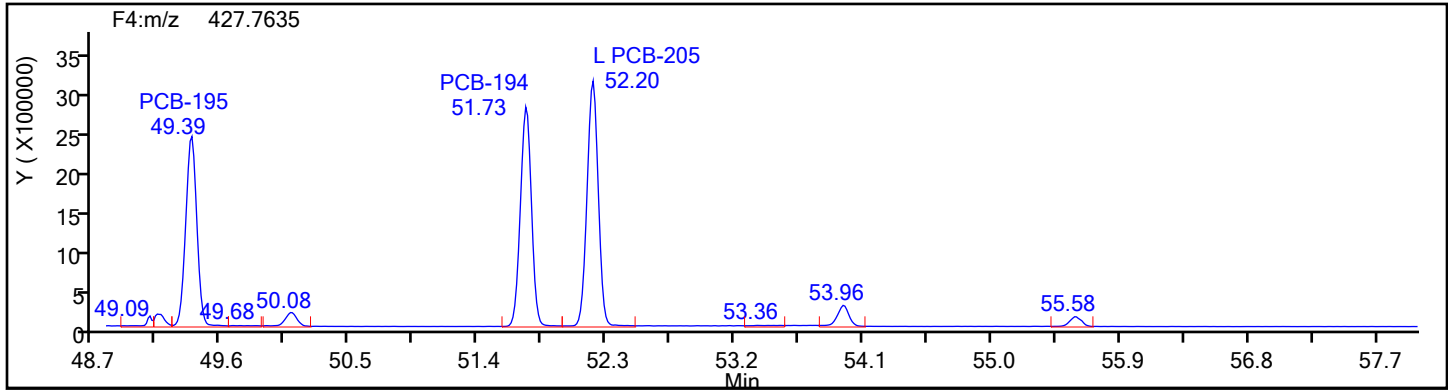
Worklist#: 87130

Sample Line#: 5

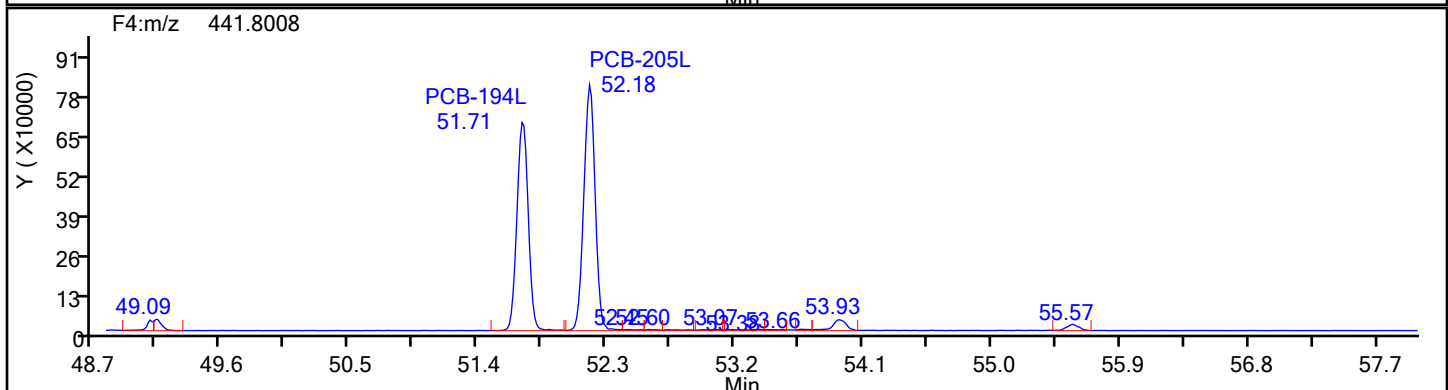
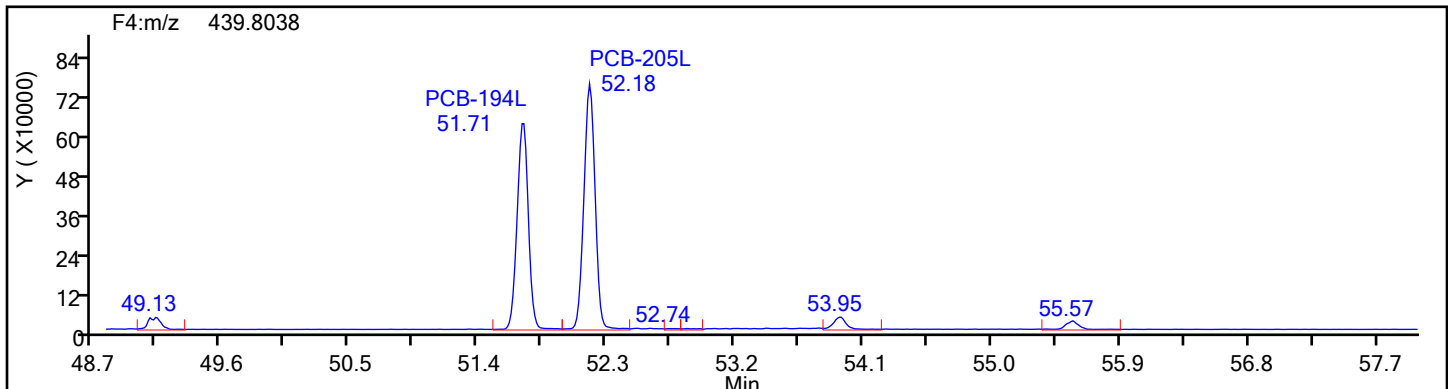
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

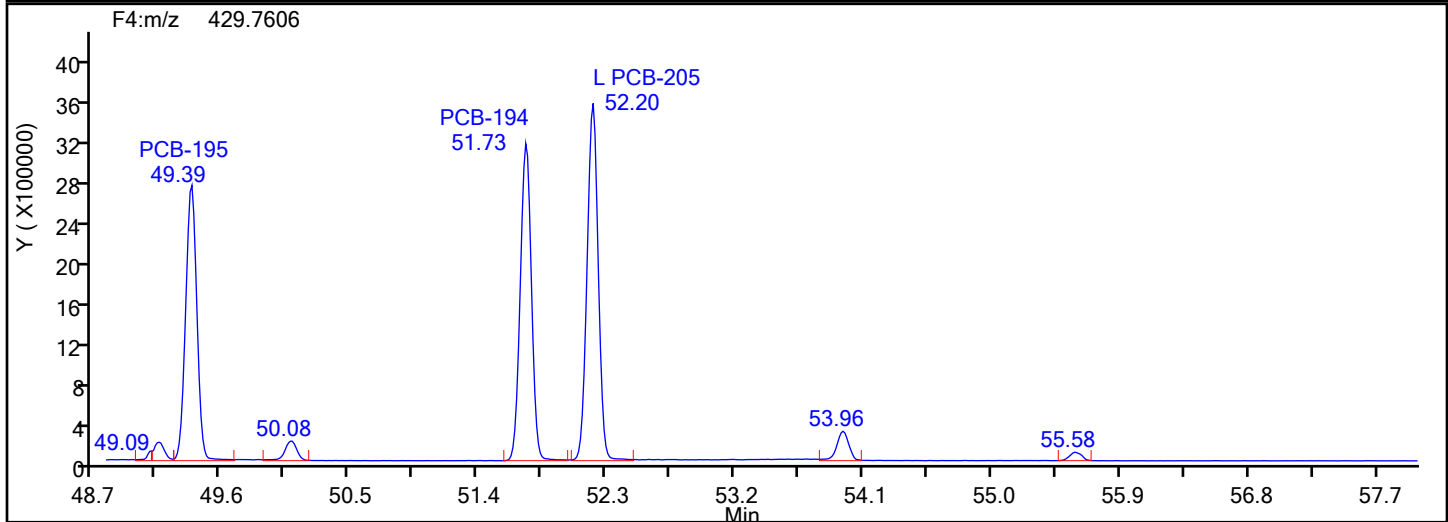
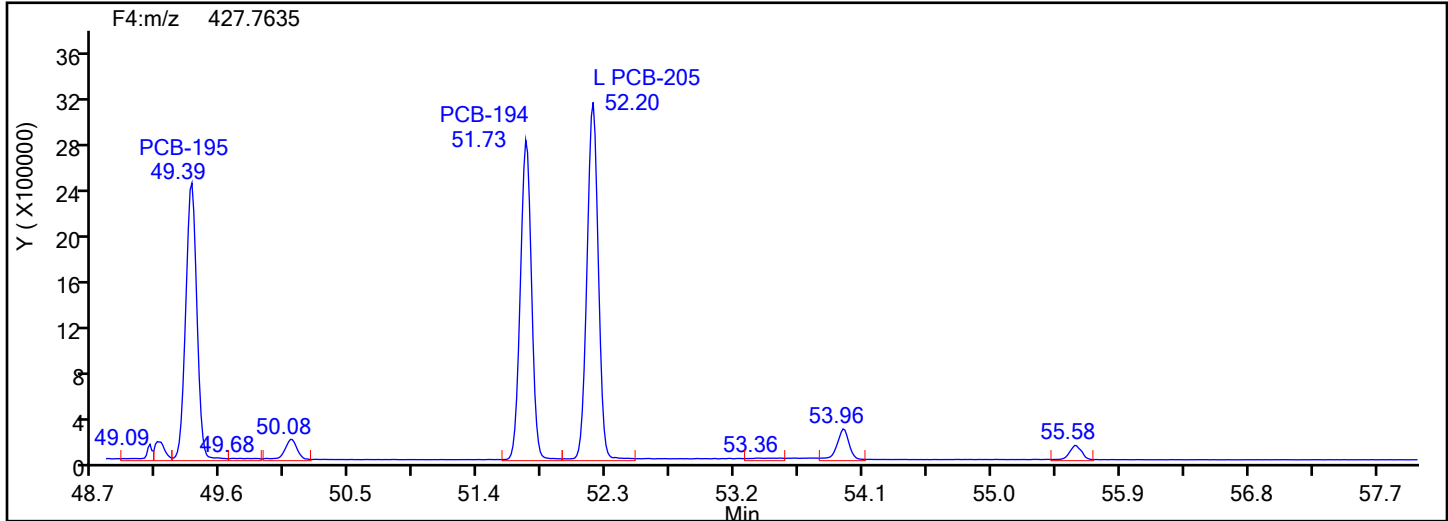
Worklist#: 87130

Sample Line#: 5

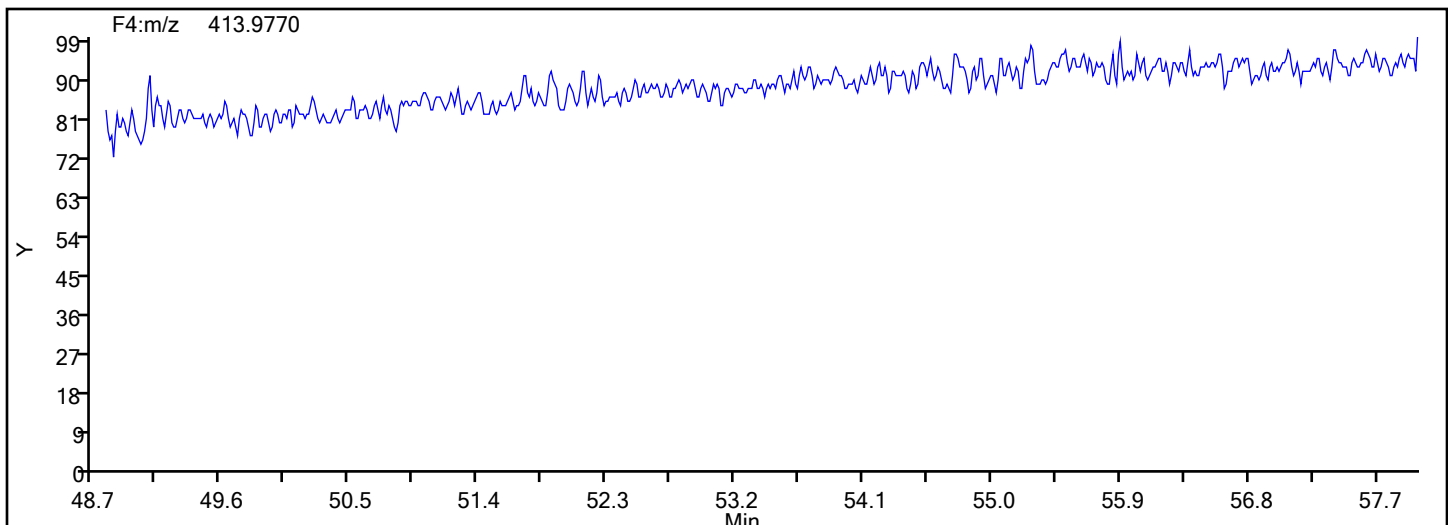
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

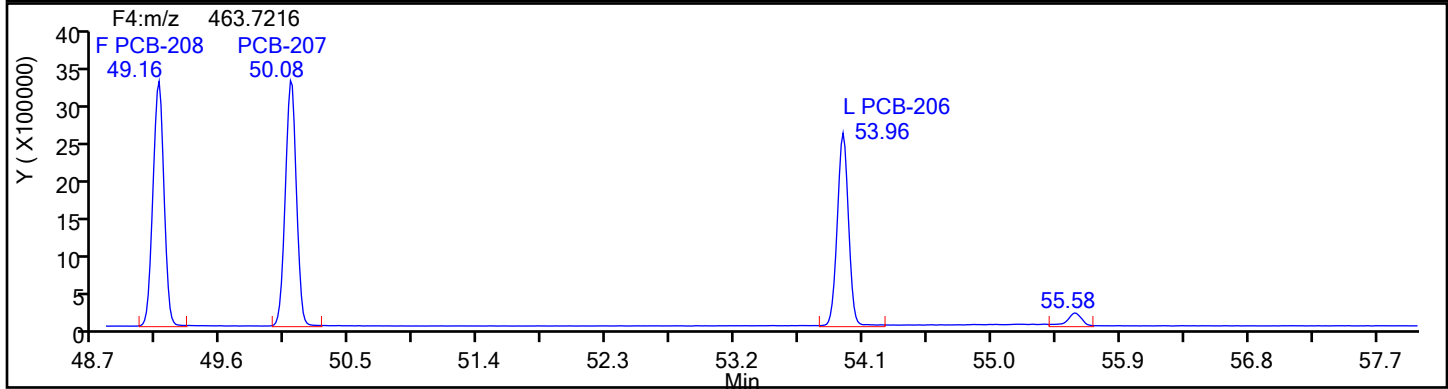
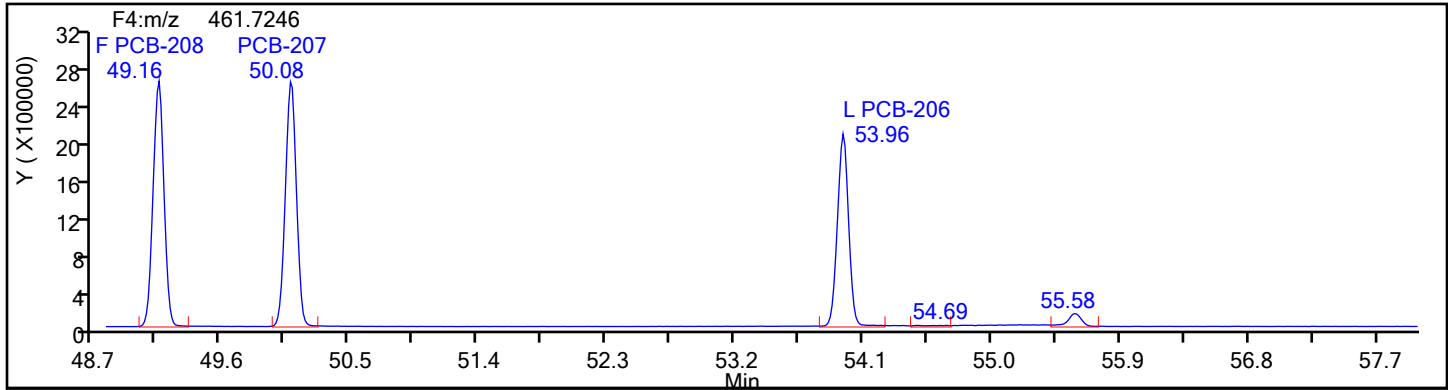


OcPCB F4 Lock Mass

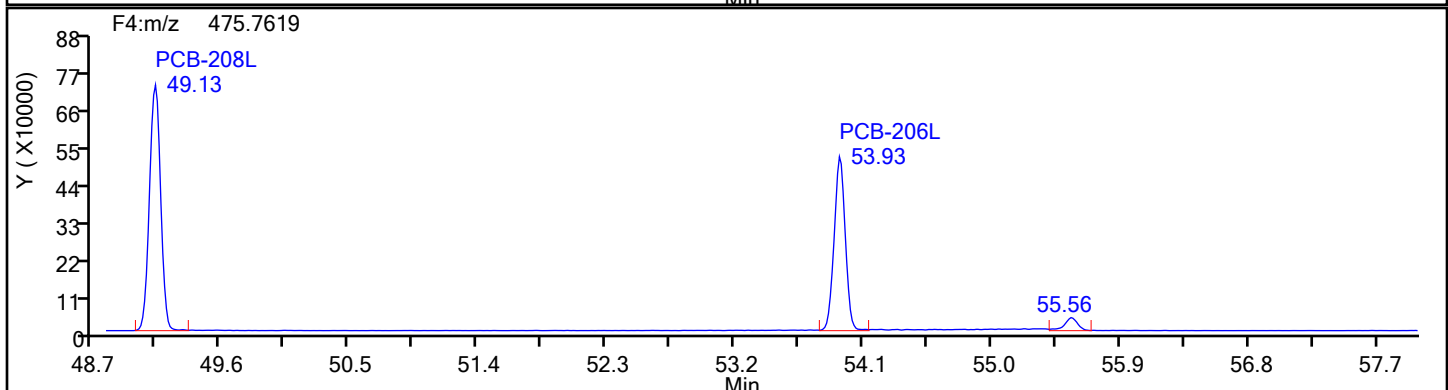
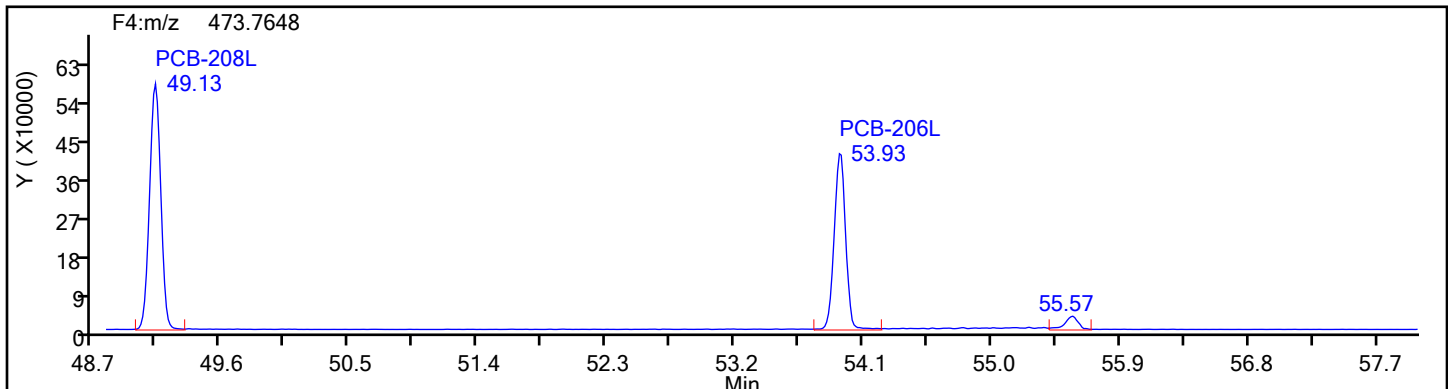


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

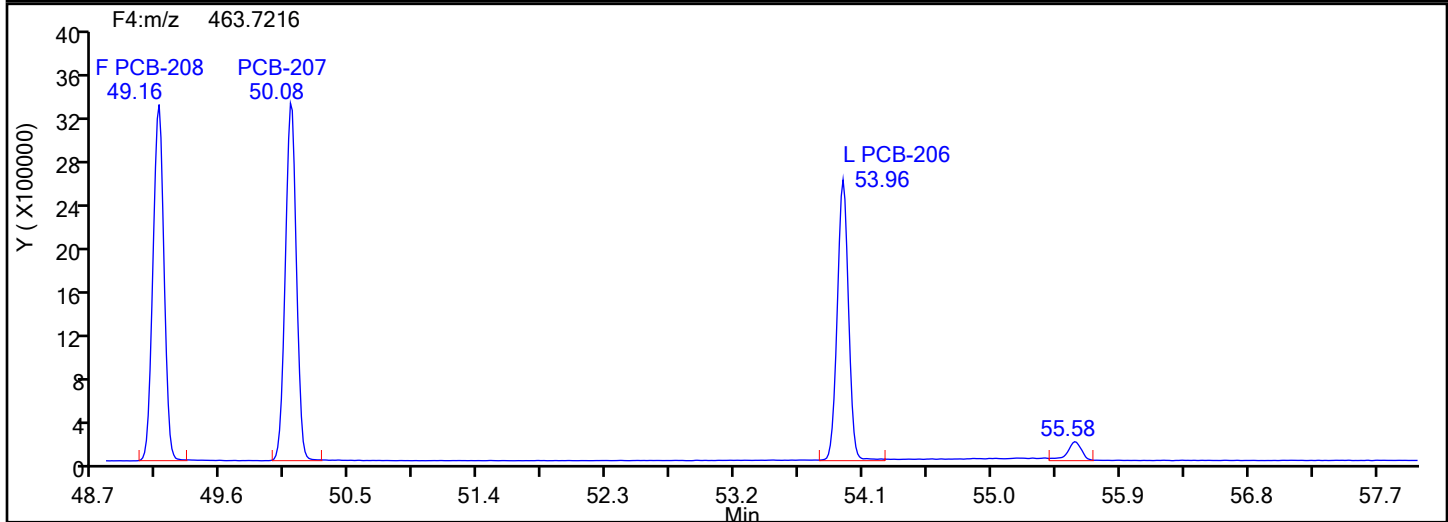
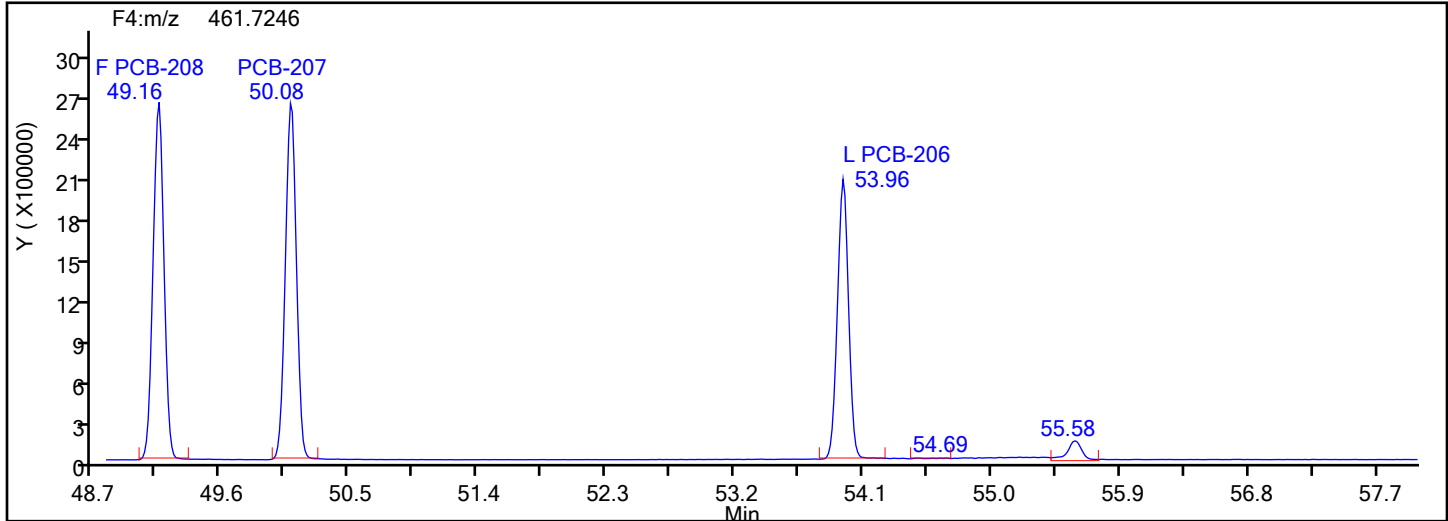
Worklist#: 87130

Sample Line#: 5

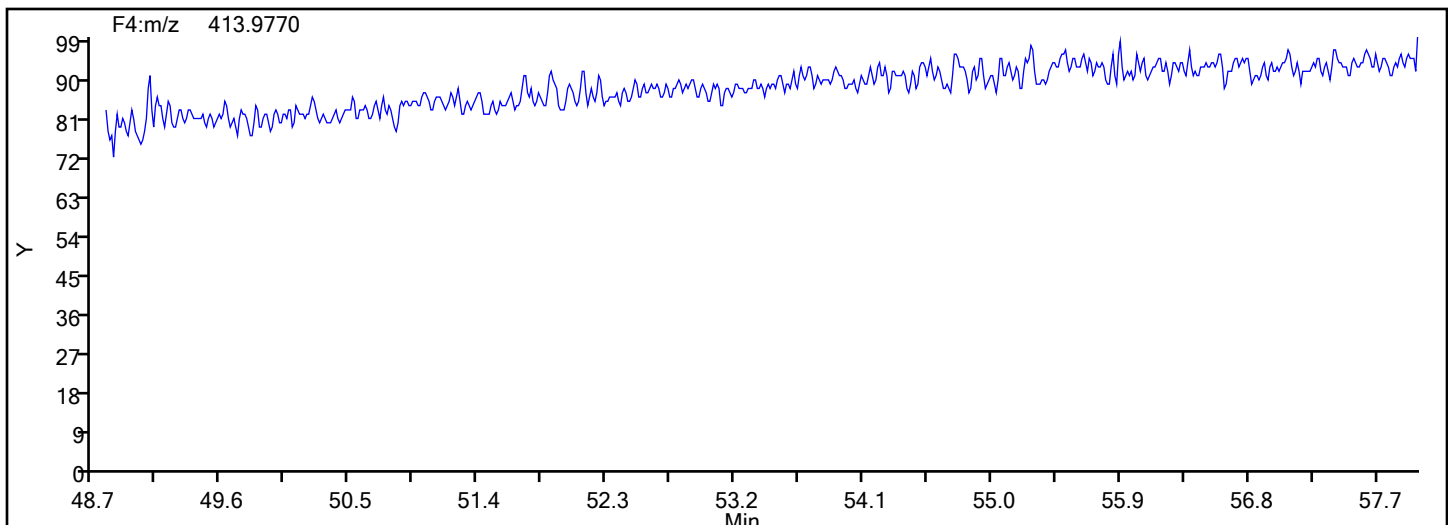
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

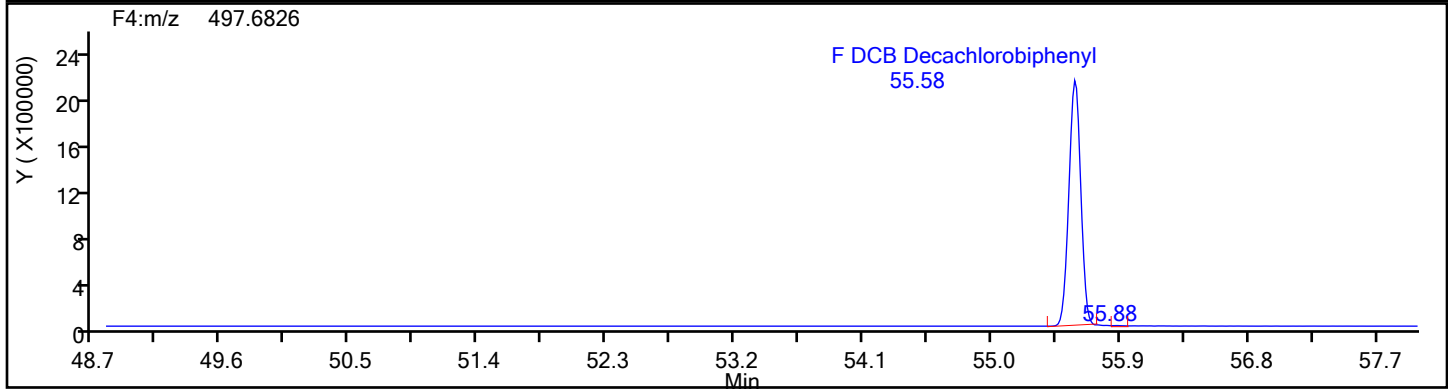
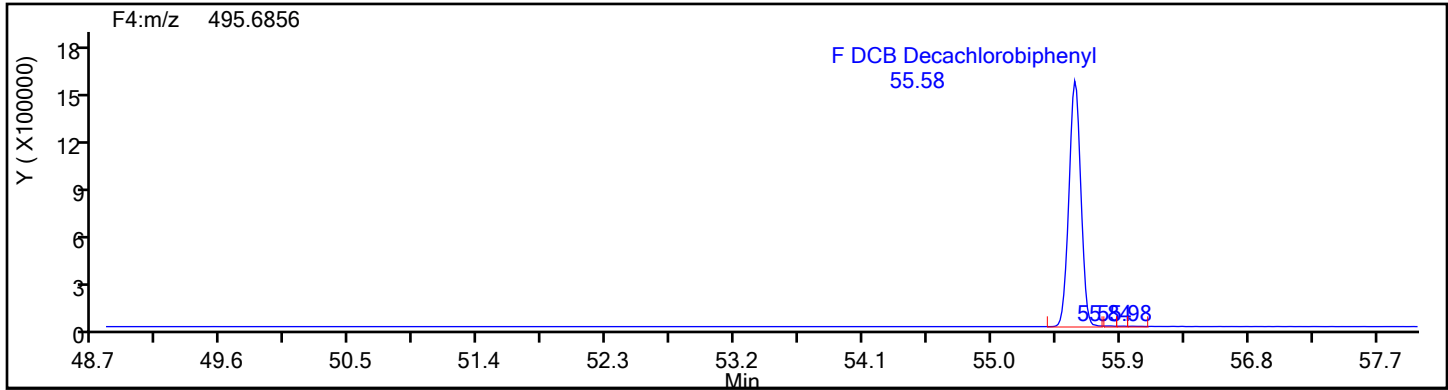


NoPCB F4 Lock Mass

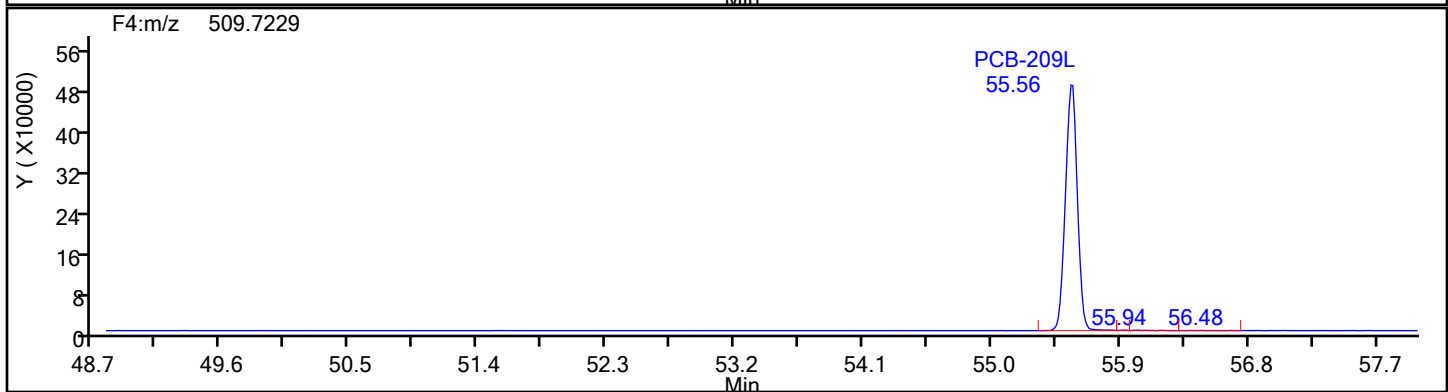
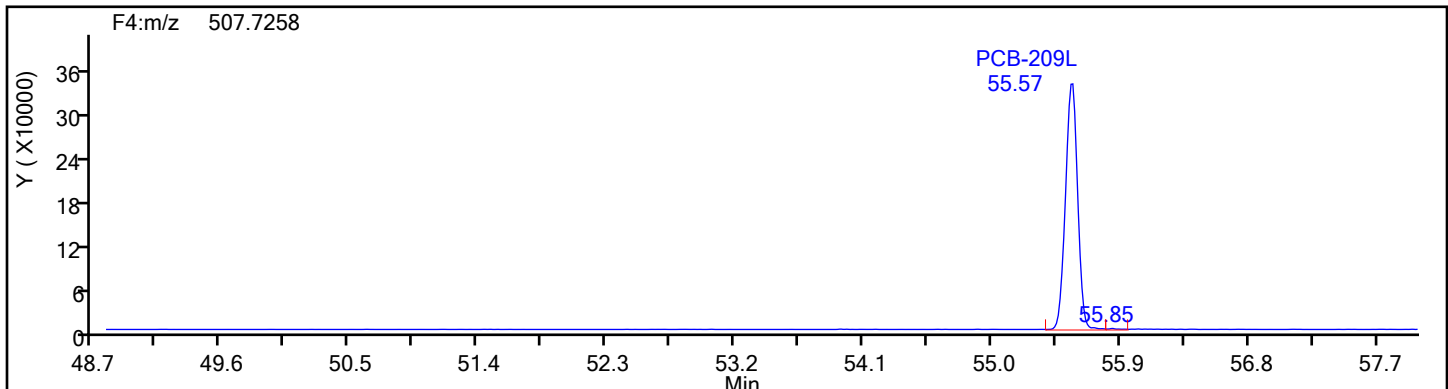


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4

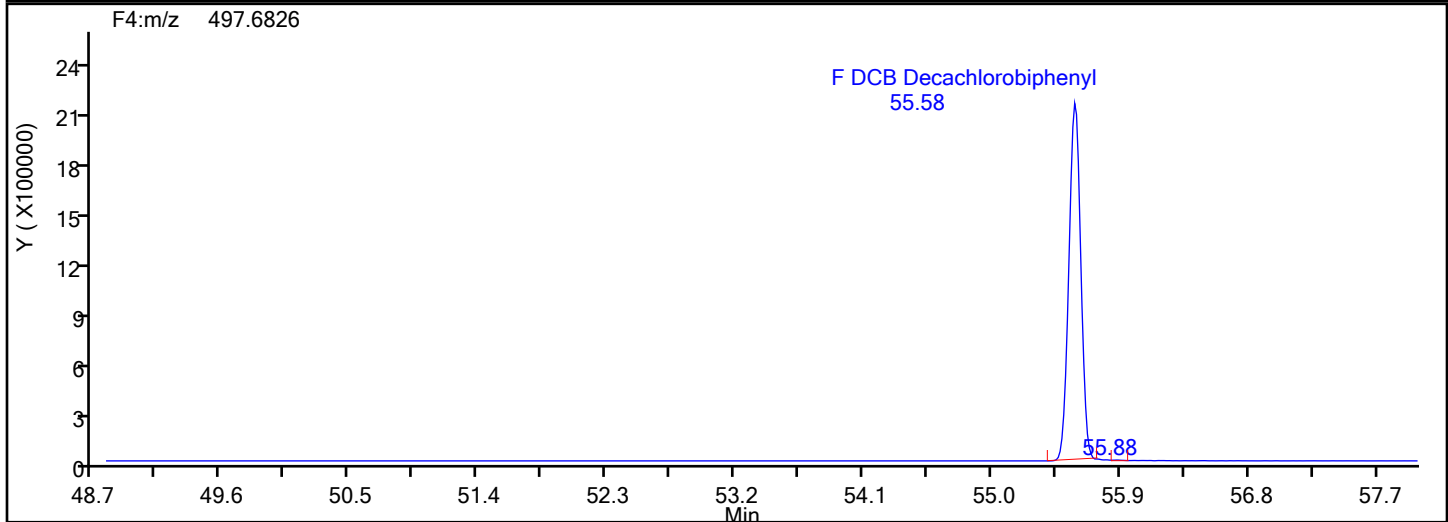
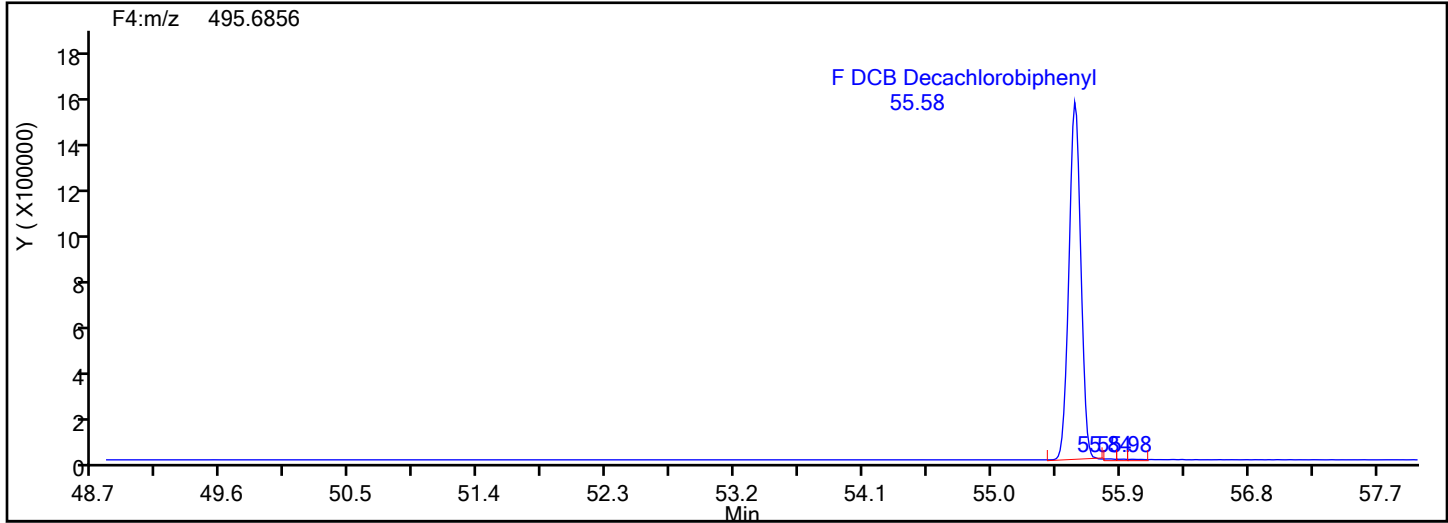


DePCB F4 Standards

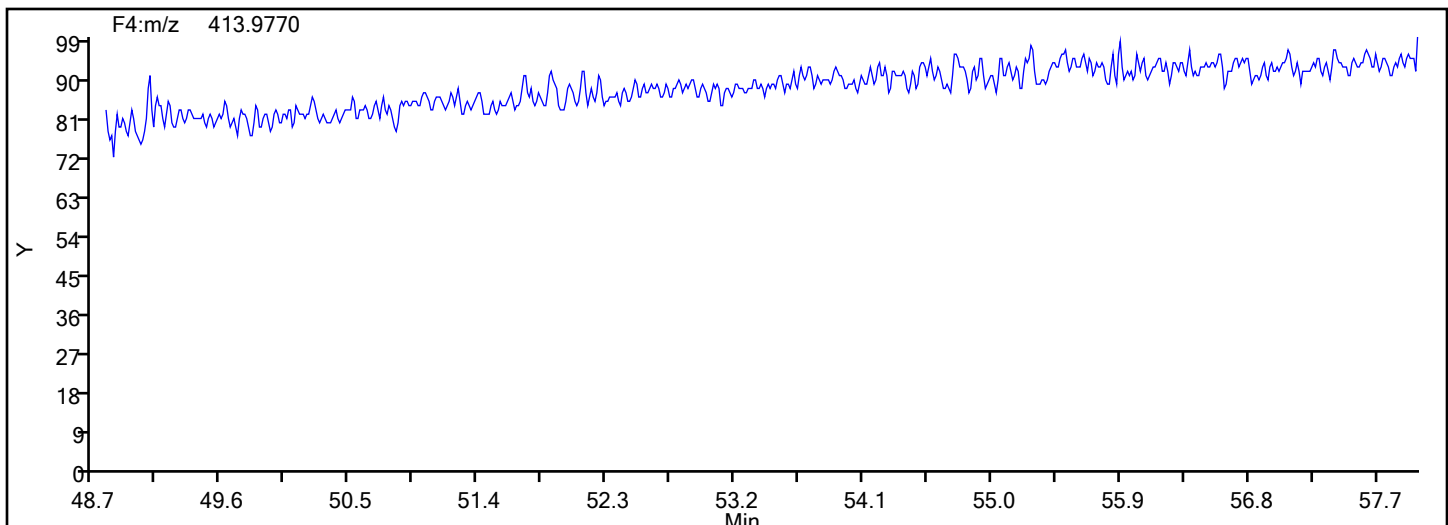


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 5
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-006
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					6050.2	5949.6	4.701	4.701		RQ
D PCB-1L	11:34	14103562	3.21	1.6108	98.8	98.8	0.2774	0.2774	98.76	
D PCB-3L	13:43	14397062	3.23	1.5891	102.2	102.2	0.2812	0.2812	102	
PCB-1	11:35	309510797	3.13	1.2191	1900.7	1800.1	4.344	4.344	95.03	RQ
PCB-2	13:34	353084495	2.92	1.1805	2098.9	2098.9	4.790	4.790	105	
PCB-3	13:44	360356023	2.98	1.2206	2050.6	2050.6	4.970	4.970	103	
S Total Dichlorobiphenyls					25569	25569	0.0304	0.0304		
D PCB-4L	13:59	5672202	1.58	0.6475	98.8	98.8	0.1387	0.1387	98.80	
* PCB-9L	15:57	8865731	1.63		100.0	100.0				
D PCB-15L	19:52	10031243	1.62	1.0789	104.9	104.9	0.0832	0.0832	105	
PCB-4	14:00	152709290	1.62	1.2818	2100.3	2100.3	0.0384	0.0384	105	
PCB-10	14:10	219606512	1.65	1.3149	2127.2	2127.2	0.0317	0.0317	106	
PCB-9	15:58	234989711	1.65	1.4224	2104.0	2104.0	0.0293	0.0293	105	
PCB-7	16:08	231331814	1.64	1.4134	2084.5	2084.5	0.0295	0.0295	104	
PCB-6	16:22	255647445	1.65	1.5421	2111.4	2111.4	0.0271	0.0271	106	
PCB-5	16:41	222818417	1.66	1.3395	2118.6	2118.6	0.0311	0.0311	106	
PCB-8	16:48	268244897	1.65	1.5889	2150.2	2150.2	0.0263	0.0263	108	
PCB-14	18:26	231080321	1.65	1.4025	2098.5	2098.5	0.0297	0.0297	105	
PCB-11	19:16	216275260	1.64	1.2951	2126.9	2126.9	0.0322	0.0322	106	
PCB-12	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-13 (C12)	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-15	19:53	269724618	1.64	1.2903	2083.9	2083.9	0.0281	0.0281	104	
S Total Trichlorobiphenyls					51916	51916	7.558	7.558		
D PCB-19L	17:05	3634856	1.08	0.6285	98.0	98.0	0.2793	0.2793	97.99	
* PCB-32L	20:20	5901385	1.09		100.0	100.0				
* PCB-31L	22:37	17316704	1.05		100.0	100.0				
D PCB-37L	26:54	15552321	1.07	0.8749	102.6	102.6	0.1085	0.1085	103	
PCB-19	17:06	94419028	1.05	1.2809	2028.0	2028.0	0.0572	0.0572	101	
PCB-18	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-30 (C18)	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-17	19:23	91948427	1.05	1.2430	2035.1	2035.1	0.0590	0.0590	102	
PCB-27	19:37	145107554	1.05	1.8327	2178.3	2178.3	0.0400	0.0400	109	
PCB-24	19:44	131161059	1.05	1.6777	2150.9	2150.9	0.0437	0.0437	108	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:51	85816817	1.06	1.1286	2092.0	2092.0	0.0650	0.0650	105	
PCB-32	20:22	140138189	1.06	1.8324	2104.0	2104.0	0.0400	0.0400	105	
PCB-34	21:37	373345873	1.06	1.1277	2128.7	2128.7	11.7	11.7	106	
PCB-23	21:47	352538213	1.04	1.0813	2096.3	2096.3	12.2	12.2	105	
PCB-26	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-29 (C26)	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-25	22:19	436326451	1.04	1.2728	2204.3	2204.3	10.4	10.4	110	
PCB-31	22:38	378421846	1.04	1.1532	2109.9	2109.9	11.4	11.4	105	
PCB-20	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-28 (C20)	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-21	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-33 (C21)	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-22	23:33	398788093	1.05	1.1932	2148.9	2148.9	11.1	11.1	107	
PCB-36	25:07	361500062	1.11	1.1071	2099.6	2099.6	11.9	11.9	105	
PCB-39	25:28	394634471	1.05	1.1581	2191.0	2191.0	11.4	11.4	110	
PCB-38	26:03	383822577	1.05	1.0843	2276.0	2276.0	12.2	12.2	114	
PCB-35	26:31	371576451	1.05	1.1297	2114.9	2114.9	11.7	11.7	106	
PCB-37	26:55	372528859	1.05	1.1435	2094.7	2094.7	11.5	11.5	105	
S Total Tetrachlorobiphenyls					91427	91427	10.7	10.7		
D PCB-54L	20:10	3193810	0.79	0.5562	97.3	97.3	0.0513	0.0513	97.30	M
* PCB-52L	24:45	8475970	0.80		100.0	100.0				
D PCB-81L	33:40	11264701	0.81	1.2470	106.6	106.6	0.1274	0.1274	107	
D PCB-77L	34:13	11187391	0.81	1.3212	99.9	99.9	0.1202	0.1202	99.90	
PCB-54	20:12	84275390	0.80	1.2733	2072.3	2072.3	0.0719	0.0719	104	
PCB-50	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-53 (C50)	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-45	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-51 (C45)	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-46	23:20	157969398	0.78	0.7101	1981.7	1981.7	16.7	16.7	99.08	
PCB-52	24:46	214166805	0.77	0.9194	2075.0	2075.0	12.9	12.9	104	
PCB-43	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-73 (C43)	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-49	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-69 (C49)	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-48	25:32	194390518	0.78	0.8399	2061.7	2061.7	14.1	14.1	103	
PCB-44	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-47 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-65 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-59	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-62 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-75 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-42	26:17	186831580	0.78	0.8097	2055.5	2055.5	14.7	14.7	103	
PCB-40	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-41 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-71 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-64	27:00	268312321	0.77	1.1776	2029.7	2029.7	10.1	10.1	101	
PCB-72	27:50	260036448	0.78	1.0943	2116.8	2116.8	10.9	10.9	106	
PCB-68	28:07	302767134	0.77	1.2533	2151.9	2151.9	9.475	9.475	108	
PCB-57	28:33	259652587	0.77	1.0818	2138.0	2138.0	11.0	11.0	107	
PCB-58	28:47	332927040	0.77	1.3253	2237.6	2237.6	8.960	8.960	112	
PCB-67	28:57	349063048	0.78	1.4230	2185.0	2185.0	8.345	8.345	109	
PCB-63	29:13	261710211	0.77	1.1240	2074.1	2074.1	10.6	10.6	104	
PCB-61	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-70 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-74 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-76 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-66	29:52	306877309	0.77	1.2583	2172.6	2172.6	9.438	9.438	109	
PCB-55	30:02	318274904	0.77	1.3236	2141.9	2141.9	8.971	8.971	107	
PCB-56	30:32	290239949	0.77	1.2334	2096.2	2096.2	9.628	9.628	105	
PCB-60	30:45	262262219	0.77	1.1230	2080.2	2080.2	10.6	10.6	104	
PCB-80	31:10	317715187	0.78	1.3243	2137.2	2137.2	8.967	8.967	107	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:42	354295498	0.77	1.4368	2196.5	2196.5	8.265	8.265	110	
PCB-78	33:15	259722209	0.78	1.1618	1991.3	1991.3	10.2	10.2	99.57	
PCB-81	33:41	246419766	0.78	1.0802	2025.1	2025.1	10.9	10.9	101	
PCB-77	34:15	254122136	0.77	1.0836	2096.3	2096.3	11.1	11.1	105	
S Total Pentachlorobiphenyls					98197	98197	4.748	4.748		
D PCB-104L	25:42	6975966	1.61	1.2161	94.1	94.1	0.0335	0.0335	94.11	
* PCB-101L	31:36	6095567	1.60		100.0	100.0				
D PCB-123L	36:15	11406816	1.61	0.9731	104.7	104.7	0.8209	0.8209	105	
D PCB-118L	36:34	11370905	1.59	1.0102	100.6	100.6	0.7908	0.7908	101	
D PCB-114L	37:06	11474644	1.60	0.9949	103.0	103.0	0.8029	0.8029	103	
D PCB-105L	37:44	10771838	1.58	0.9514	101.1	101.1	0.8396	0.8396	101	
* PCB-127L	39:13	11193535	1.59		100.0	100.0				
D PCB-126L	40:49	11098540	1.58	0.9439	105.0	105.0	0.8463	0.8463	105	
PCB-104	25:42	148594312	1.61	1.0087	2111.7	2111.7	0.0696	0.0696	106	
PCB-96	26:05	165718292	1.62	1.0940	2171.4	2171.4	0.0642	0.0642	109	
PCB-103	28:01	125264432	1.61	0.8741	2054.2	2054.2	0.0803	0.0803	103	
PCB-94	28:14	104404112	1.61	0.7640	1958.9	1958.9	0.0919	0.0919	97.94	
PCB-95	28:41	115750524	1.60	0.8033	2065.6	2065.6	0.0874	0.0874	103	
PCB-93	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-100 (C93)	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-98	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-102 (C98)	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-88	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-91 (C88)	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-84	29:46	101701980	1.61	0.7299	1997.3	1997.3	0.0962	0.0962	99.86	
PCB-89	30:15	106371354	1.61	0.7798	1955.3	1955.3	0.0900	0.0900	97.77	
PCB-121	30:40	189494866	1.62	1.2964	2095.3	2095.3	0.0541	0.0541	105	M
PCB-92	31:02	119034801	1.63	0.8546	1996.8	1996.8	0.0821	0.0821	99.84	M
PCB-90	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-101 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-113 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-83	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-99 (C83)	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-112	32:19	200578005	1.62	1.4111	2037.6	2037.6	0.0497	0.0497	102	
PCB-86	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-87 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-97 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-109 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-119 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-125 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-85	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-116 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-117 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-110	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-115 (C110)	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-82	33:54	118090307	1.61	0.8303	2038.7	2038.7	0.0845	0.0845	102	
PCB-111	34:19	172673938	1.62	1.2125	2041.4	2041.4	0.0579	0.0579	102	
PCB-120	34:46	217057638	1.63	1.4762	2107.7	2107.7	0.0475	0.0475	105	
PCB-108	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-124 (C108)	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-107	36:09	280088284	1.61	1.2121	2058.7	2058.7	13.4	13.4	103	
PCB-123	36:16	259083255	1.62	1.0722	2118.3	2118.3	14.6	14.6	106	
PCB-106	36:22	259205947	1.61	1.0839	2130.5	2130.5	14.9	14.9	107	
PCB-118	36:35	282900049	1.62	1.2055	2063.7	2063.7	13.0	13.0	103	
PCB-122	36:56	217083178	1.61	0.9567	2021.5	2021.5	16.9	16.9	101	
PCB-114	37:07	259907186	1.61	1.0842	2089.2	2089.2	14.7	14.7	104	
PCB-105	37:46	263476320	1.60	1.1879	2059.1	2059.1	14.2	14.2	103	
PCB-127	39:14	264011122	1.61	1.1394	2064.4	2064.4	14.2	14.2	103	
PCB-126	40:51	256982981	1.61	1.0976	2109.6	2109.6	15.4	15.4	105	
S Total Hexachlorobiphenyls					88220	88220	4.989	4.989		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:22	6037909	1.27	1.0851	91.3	91.3	0.0236	0.0236	91.28	
* PCB-138L	39:41	7617968	1.29		100.0	100.0				
\$ PCB-159L	41:56	4754884	1.29	0.5118	99.9	99.9	1.026	1.026	99.93	
D PCB-167L	42:42	9296213	1.30	1.2572	97.1	97.1	0.5148	0.5148	97.06	
D PCB-156L	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-157L (C156L)	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-169L	47:05	9278382	1.28	1.2439	97.9	97.9	0.5204	0.5204	97.92	
PCB-155	31:24	117062772	1.28	0.9444	2052.9	2052.9	0.0776	0.0776	103	
PCB-152	31:35	127316142	1.27	0.9895	2130.9	2130.9	0.0740	0.0740	107	
PCB-150	31:45	127390982	1.28	1.0132	2082.3	2082.3	0.0723	0.0723	104	
PCB-136	32:07	128715901	1.29	1.0116	2107.4	2107.4	0.0724	0.0724	105	
PCB-145	32:24	121971700	1.28	0.9685	2085.8	2085.8	0.0756	0.0756	104	
PCB-148	33:56	97145990	1.27	0.7603	2116.2	2116.2	0.0964	0.0964	106	
PCB-135	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-151 (C135)	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-154	34:46	103679991	1.28	0.8129	2112.4	2112.4	0.0901	0.0901	106	
PCB-144	35:05	96362038	1.28	0.7852	2032.4	2032.4	0.0933	0.0933	102	
PCB-147	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-149 (C147)	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-134	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-143 (C134)	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-139	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-140 (C139)	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-131	36:15	145204904	1.26	0.7503	2116.4	2116.4	8.710	8.710	106	
PCB-142	36:23	147452709	1.27	0.7507	2147.9	2147.9	8.706	8.706	107	
PCB-132	36:42	134732483	1.27	0.7489	1967.3	1967.3	8.726	8.726	98.36	
PCB-133	37:13	147730024	1.27	0.8096	1995.5	1995.5	8.073	8.073	99.77	
PCB-165	37:37	191105968	1.27	1.0247	2039.4	2039.4	6.378	6.378	102	
PCB-146	37:52	183787905	1.26	0.9637	2085.5	2085.5	6.782	6.782	104	
PCB-161	37:59	217946430	1.28	1.1288	2111.5	2111.5	5.790	5.790	106	
PCB-153	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-168 (C153)	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-141	38:40	155876662	1.27	0.8755	1946.9	1946.9	7.465	7.465	97.35	
PCB-130	39:04	126435560	1.26	0.7051	1960.9	1960.9	9.268	9.268	98.04	
PCB-137	39:18	145652162	1.26	0.7767	2050.8	2050.8	8.415	8.415	103	
PCB-164	39:25	196637037	1.27	1.0382	2071.1	2071.1	6.295	6.295	104	
PCB-129	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-138 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-160 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-163 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-158	40:06	240225815	1.28	1.3110	2003.7	2003.7	4.985	4.985	100	
PCB-128	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-166 (C128)	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-159	41:58	268867618	1.27	1.3856	2121.9	2121.9	4.717	4.717	106	
PCB-162	42:15	227875192	1.27	1.2571	1982.3	1982.3	5.199	5.199	99.11	
PCB-167	42:43	213807712	1.27	1.1159	2061.1	2061.1	4.915	4.915	103	
PCB-156	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-157 (C156)	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-169	47:06	220826313	1.28	1.1628	2046.7	2046.7	4.755	4.755	102	
S Total Heptachlorobiphenyls					48937	48937	0.1057	0.1057		
D PCB-188L	37:06	7440630	1.05	1.3133	101.8	101.8	0.0381	0.0381	102	
* PCB-180L	45:15	5566234	1.10		100.0	100.0				
D PCB-170L	46:30	4404173	1.08	0.8362	94.6	94.6	0.0598	0.0598	94.62	
D PCB-189L	49:37	11047526	1.06	1.4414	102.5	102.5	0.2551	0.2551	102	
PCB-188	37:07	172058230	1.06	1.1350	2037.4	2037.4	0.0512	0.0512	102	
PCB-179	37:27	169294763	1.06	1.4276	2002.4	2002.4	0.0524	0.0524	100	
PCB-184	37:59	173580025	1.05	1.3672	2143.8	2143.8	0.0548	0.0548	107	
PCB-176	38:20	147820845	1.06	1.2331	2024.2	2024.2	0.0607	0.0607	101	
PCB-186	38:48	183358035	1.05	1.4737	2100.8	2100.8	0.0508	0.0508	105	
PCB-178	40:10	108531079	1.06	0.8946	2048.4	2048.4	0.0837	0.0837	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:48	114534847	1.05	0.9524	2030.6	2030.6	0.0786	0.0786	102	
PCB-187	41:05	135710155	1.06	1.1018	2079.7	2079.7	0.0679	0.0679	104	
PCB-182	41:17	113333574	1.05	0.9247	2069.5	2069.5	0.0810	0.0810	103	
PCB-183	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-185 (C183)	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-174	41:56	120778067	1.05	0.9642	2115.1	2115.1	0.0776	0.0776	106	
PCB-177	42:22	115865581	1.05	0.9773	2001.9	2001.9	0.0766	0.0766	100	
PCB-181	42:45	115218365	1.06	0.9505	2046.7	2046.7	0.0788	0.0788	102	
PCB-171	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-173 (C171)	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-172	44:37	98480427	1.04	0.8519	1952.0	1952.0	0.0879	0.0879	97.60	
PCB-192	44:54	164428936	1.06	1.3459	2062.9	2062.9	0.0556	0.0556	103	
PCB-180	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-193 (C180)	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-191	45:37	156918655	1.07	1.2891	2055.4	2055.4	0.0581	0.0581	103	
PCB-170	46:31	104308327	1.05	1.1865	1996.1	1996.1	0.0887	0.0887	99.81	
PCB-190	47:02	158352425	1.06	1.3322	2007.0	2007.0	0.0562	0.0562	100	
PCB-189	49:38	221399680	1.04	0.9633	2080.3	2080.3	0.8387	0.8387	104	
S Total Octachlorobiphenyls					24392	24392	0.3094	0.3094		
D PCB-202L	42:28	5299657	0.89	0.9818	97.0	97.0	0.0448	0.0448	96.97	
* PCB-194L	51:43	7477993	0.92		100.0	100.0				
D PCB-205L	52:11	8823289	0.92	1.1786	100.1	100.1	0.0560	0.0560	100	
PCB-202	42:29	114836205	0.90	1.0359	2091.8	2091.8	0.0662	0.0662	105	
PCB-201	43:24	104750814	0.90	0.9754	2026.5	2026.5	0.0703	0.0703	101	
PCB-204	44:05	111110035	0.90	1.0485	1999.5	1999.5	0.0654	0.0654	99.98	
PCB-197	44:19	119677701	0.90	1.1458	1970.9	1970.9	0.0598	0.0598	98.54	
PCB-200	44:25	107343183	0.90	1.0072	2011.1	2011.1	0.0681	0.0681	101	
PCB-198	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-199 (C198)	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-196	47:53	81076975	0.90	0.7806	1959.7	1959.7	0.0878	0.0878	97.99	
PCB-203	48:05	98693847	0.91	0.9292	2004.1	2004.1	0.0738	0.0738	100	
PCB-195	49:24	154147844	0.90	0.8263	2114.3	2114.3	1.086	1.086	106	
PCB-194	51:44	173567729	0.89	0.9735	2020.7	2020.7	0.9219	0.9219	101	
PCB-205	52:13	198631608	0.89	1.0878	2069.6	2069.6	0.8251	0.8251	103	
S Total Nonachlorobiphenyls					5919.4	5919.4	1.080	1.080		
D PCB-208L	49:08	7275684	0.81	0.9576	101.6	101.6	0.2816	0.2816	102	
D PCB-206L	53:56	5196483	0.82	0.6947	100.0	100.0	0.3881	0.3881	100	
PCB-208	49:10	166655336	0.78	1.1374	2013.8	2013.8	1.005	1.005	101	
PCB-207	50:05	170983014	0.78	1.3756	1993.2	1993.2	0.9857	0.9857	99.66	
PCB-206	53:58	132627452	0.78	1.3346	1912.4	1912.4	1.248	1.248	95.62	M
D PCB-209L	55:35	4902169	0.71	0.6669	98.3	98.3	0.0745	0.0745	98.30	
DCB Decachlorobiphenyl	55:35	109226464	0.70	1.1004	2024.8	2024.8	0.0364	0.0364	101	
S Polychlorinated biphenyls, Total					436602	436602	3.289	3.289		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L51668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-006
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub16
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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PCB-1L

200.0795	11:34	11:36	-2	0.725	10754013	4289788	3129	7822	1371		
202.0766	11:34	11:36	-2	0.725	3349549	1329717	1503	3757	885	3.21(2.66-3.60)	

PCB-3L

200.0795	13:43	13:46	-2	0.861	10992517	3748060	3129	7822	1198		
202.0766	13:43	13:46	-2	0.861	3404545	1158657	1503	3757	771	3.23(2.66-3.60)	

PCB-1

188.0393	11:35	11:37	-2	1.001	234568717	85607908	89899	224747	952		
190.0363	11:35	11:37	-2	1.001	92228311	38939705	29153	72882	1336	2.54(2.66-3.60)	
Empc Correction					74942080	27350767	29153	72882	938		

RQ

PCB-2

188.0393	13:34	13:36	-2	0.988	262988565	83986728	89899	224747	934		
190.0363	13:34	13:36	-2	0.988	90095930	32601300	29153	72882	1118	2.92(2.66-3.60)	

PCB-3

188.0393	13:44	13:47	-2	1.001	269914050	86572525	89899	224747	963		
190.0363	13:44	13:47	-2	1.001	90441973	31826448	29153	72882	1092	2.98(2.66-3.60)	

PCB-4L

234.0406	13:59	14:02	-2	0.877	3472582	1159519	752	1880	1542		
236.0376	13:59	14:02	-2	0.877	2199620	725220	179	447	4052	1.58(1.33-1.79)	

PCB-9L

234.0406	15:57	15:59	-2		5493254	1600537	752	1880	2128		
236.0376	15:57	15:59	-2		3372477	990756	179	447	5535	1.63(1.33-1.79)	

PCB-15L

234.0406	19:52	19:54	-2	1.246	6202272	1578840	752	1880	2100		
236.0376	19:52	19:54	-2	1.246	3828971	980067	179	447	5475	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:00	14:02	-2	1.001	94515395	32745412	171	427	191494		
223.9974	14:00	14:02	-2	1.001	58193895	20013994	200	500	100070	1.62(1.33-1.79)	
PCB-10											
222.0003	14:10	14:13	-2	1.013	136751884	47058628	171	427	275197		
223.9974	14:10	14:13	-2	1.013	82854628	27880362	200	500	139402	1.65(1.33-1.79)	
PCB-9											
222.0003	15:58	16:00	-2	1.142	146334689	44370793	171	427	259478		
223.9974	15:58	16:00	-2	1.142	88655022	26507740	200	500	132539	1.65(1.33-1.79)	
PCB-7											
222.0003	16:08	16:10	-2	1.153	143719888	44739433	171	427	261634		
223.9974	16:08	16:10	-2	1.153	87611926	27030236	200	500	135151	1.64(1.33-1.79)	
PCB-6											
222.0003	16:22	16:25	-3	1.170	159325476	47133801	171	427	275636		
223.9974	16:22	16:25	-3	1.170	96321969	28375772	200	500	141879	1.65(1.33-1.79)	
PCB-5											
222.0003	16:41	16:43	-2	1.193	138924762	40676201	171	427	237873		
223.9974	16:41	16:43	-2	1.193	83893655	24042204	200	500	120211	1.66(1.33-1.79)	
PCB-8											
222.0003	16:48	16:50	-2	1.201	166998039	50198121	171	427	293556		
223.9974	16:48	16:50	-2	1.201	101246858	30147292	200	500	150737	1.65(1.33-1.79)	
PCB-14											
222.0003	18:26	18:28	-2	0.928	143956666	40021865	171	427	234046		
223.9974	18:26	18:28	-2	0.928	87123655	23907292	200	500	119537	1.65(1.33-1.79)	
PCB-11											
222.0003	19:16	19:18	-2	0.970	134426111	36507497	171	427	213494		
223.9974	19:16	19:18	-2	0.970	81849149	22032348	200	500	110162	1.64(1.33-1.79)	
PCB-12											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-15											
222.0003	19:53	19:55	-2	1.001	167697265	43484521	171	427	254295		
223.9974	19:53	19:55	-2	1.001	102027353	26117852	200	500	130589	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:05	17:08	-2	0.840	1885439	523334	413	1032	1267		
269.9986	17:05	17:08	-2	0.840	1749417	482039	572	1430	843	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:20	20:23	-2		3079097	727986	413	1032	1763		
269.9986	20:20	20:23	-2		2822288	674645	572	1430	1179	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:37	22:38	-2		8885777	2163995	743	1857	2913		
269.9986	22:37	22:38	-2		8430927	2037598	853	2132	2389	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:54	26:55	-1	1.190	8056279	1777948	743	1857	2393		
269.9986	26:54	26:55	-1	1.190	7496042	1667650	853	2132	1955	1.07(0.88-1.20)	
PCB-19											
255.9613	17:06	17:09	-2	1.001	48410130	13799356	148	370	93239		
257.9584	17:06	17:09	-2	1.001	46008898	13166279	147	367	89567	1.05(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-17											
255.9613	19:23	19:26	-2	1.135	47187181	12350370	148	370	83448		
257.9584	19:23	19:26	-2	1.135	44761246	11790273	147	367	80206	1.05(0.88-1.20)	
PCB-27											
255.9613	19:37	19:39	-2	1.148	74417782	19342754	148	370	130694		
257.9584	19:36	19:39	-2	1.147	70689772	18379713	147	367	125032	1.05(0.88-1.20)	
PCB-24											
255.9613	19:44	19:46	-2	1.155	67298387	17488546	148	370	118166		
257.9584	19:44	19:46	-2	1.155	63862672	16569281	147	367	112716	1.05(0.88-1.20)	
PCB-16											
255.9613	19:51	19:53	-2	1.162	44137761	11444386	148	370	77327		
257.9584	19:51	19:53	-2	1.162	41679056	10820033	147	367	73606	1.06(0.88-1.20)	
PCB-32											
255.9613	20:22	20:23	-2	1.192	72044656	18307746	148	370	123701		
257.9584	20:22	20:23	-2	1.192	68093533	17292993	147	367	117639	1.06(0.88-1.20)	
PCB-34											
255.9613	21:37	21:39	-2	1.265	192350519	49279483	91549	228872	538		
257.9584	21:37	21:39	-2	1.265	180995354	46313612	90410	226025	512	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-2	1.274	179749458	46158887	91549	228872	504		
257.9584	21:47	21:48	-2	1.274	172788755	44383619	90410	226025	491	1.04(0.88-1.20)	
PCB-26											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-25											
255.9613	22:19	22:21	-2	0.829	222826290	52320592	91549	228872	572		
257.9584	22:19	22:21	-2	0.829	213500161	50247158	90410	226025	556	1.04(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	192866238	49658665	91549	228872	542		
257.9584	22:38	22:40	-2	0.841	185555608	47756084	90410	226025	528	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:33	23:35	-2	0.875	203903665	51385849	91549	228872	561		
257.9584	23:33	23:35	-2	0.875	194884428	49338332	90410	226025	546	1.05(0.88-1.20)	
PCB-36											
255.9613	25:07	25:09	-2	0.933	189833401	41986793	91549	228872	459		
257.9584	25:07	25:09	-2	0.933	171666661	40424919	90410	226025	447	1.11(0.88-1.20)	
PCB-39											
255.9613	25:28	25:30	-2	0.947	201659782	46836641	91549	228872	512		
257.9584	25:28	25:30	-2	0.947	192974689	44712407	90410	226025	495	1.05(0.88-1.20)	
PCB-38											
255.9613	26:03	26:05	-2	0.968	196490344	44752898	91549	228872	489		
257.9584	26:03	26:05	-2	0.968	187332233	42937047	90410	226025	475	1.05(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	190388812	44686478	91549	228872	488		
257.9584	26:31	26:32	-1	0.986	181187639	42609672	90410	226025	471	1.05(0.88-1.20)	
PCB-37											
255.9613	26:55	26:57	-2	1.000	191000617	42751493	91549	228872	467		
257.9584	26:55	26:57	-2	1.000	181528242	40748304	90410	226025	451	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:10	20:12	-2	0.815	1410600	348536	93	232	3748		M
303.9597	20:10	20:12	-2	0.815	1783210	448882	67	167	6700	0.79(0.65-0.89)	M
PCB-52L											
301.9626	24:45	24:46	-2		3766633	836644	593	1482	1411		
303.9597	24:45	24:46	-2		4709337	1056827	610	1525	1733	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:41	-1	1.360	5053228	1038580	593	1482	1751		
303.9597	33:40	33:41	-1	1.360	6211473	1286399	610	1525	2109	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4996211	1018481	593	1482	1718		
303.9597	34:13	34:14	-1	1.383	6191180	1264068	610	1525	2072	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-2	1.000	37405340	9622985	134	335	71813		
291.9194	20:12	20:13	-2	1.000	46870050	11943079	158	395	75589	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:20	23:22	-2	1.157	69320314	16740575	50155	125387	334		
291.9194	23:20	23:22	-2	1.157	88649084	21569295	59274	148185	364	0.78(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	93446718	22095055	50155	125387	441		
291.9194	24:46	24:47	-1	1.228	120720087	28630291	59274	148185	483	0.77(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-49											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-48											
289.9224	25:32	25:33	-1	1.266	84936034	19392315	50155	125387	387		
291.9194	25:32	25:33	-1	1.266	109454484	25127096	59274	148185	424	0.78(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-42											
289.9224	26:17	26:18	-2	1.303	81689781	18571843	50155	125387	370		
291.9194	26:17	26:18	-2	1.303	105141799	24080056	59274	148185	406	0.78(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.339	116983650	26828099	50155	125387	535		
291.9194	27:00	27:01	-1	1.339	151328671	34988984	59274	148185	590	0.77(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	113763062	25682704	50155	125387	512		
291.9194	27:50	27:51	-1	0.827	146273386	33256583	59274	148185	561	0.78(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	131919696	27964582	50155	125387	558		
291.9194	28:07	28:09	-2	0.835	170847438	36510766	59274	148185	616	0.77(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	113235321	25225776	50155	125387	503		
291.9194	28:33	28:34	-1	0.848	146417266	32725104	59274	148185	552	0.77(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	145298829	31328835	50155	125387	625		
291.9194	28:47	28:48	-1	0.855	187628211	40707768	59274	148185	687	0.77(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	152487042	31839299	50155	125387	635		
291.9194	28:57	28:58	-1	0.860	196576006	41472696	59274	148185	700	0.78(0.65-0.89)	
PCB-63											
289.9224	29:13	29:14	-1	0.868	113508185	24307267	50155	125387	485		
291.9194	29:13	29:14	-1	0.868	148202026	31811256	59274	148185	537	0.77(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	133135649	28380995	50155	125387	566		
291.9194	29:52	29:53	-1	0.887	173741660	37216184	59274	148185	628	0.77(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	-1	0.892	138556826	30598723	50155	125387	610		
291.9194	30:02	30:03	-1	0.892	179718078	39963320	59274	148185	674	0.77(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	126483952	27609033	50155	125387	550		
291.9194	30:32	30:33	-1	0.907	163755997	35966266	59274	148185	607	0.77(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	113992017	23957463	50155	125387	478		
291.9194	30:45	30:46	-1	0.914	148270202	31337130	59274	148185	529	0.77(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	139046957	29819259	50155	125387	595		
291.9194	31:10	31:11	-1	0.926	178668230	38820797	59274	148185	655	0.78(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	154426670	31320343	50155	125387	624		
291.9194	32:42	32:42	0	0.971	199868828	40816688	59274	148185	689	0.77(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	113467309	23694400	50155	125387	472		
291.9194	33:15	33:15	0	0.988	146254900	30744591	59274	148185	519	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	107771944	22576973	50155	125387	450		
291.9194	33:41	33:42	-1	1.001	138647822	29199662	59274	148185	493	0.78(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	110855148	23436474	50155	125387	467		
291.9194	34:15	34:16	-1	1.001	143266988	30397880	59274	148185	513	0.77(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4307701	910320	123	307	7401		
339.9178	25:41	25:42	-2	0.813	2668265	557097	85	212	6554	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3752075	786809	123	307	6397		
339.9178	31:36	31:37	-1		2343492	489973	85	212	5764	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	7036968	1430234	4417	11042	324		
339.9178	36:15	36:15	0	1.147	4369848	885744	2498	6245	355	1.61(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6977058	1420821	4417	11042	322		
339.9178	36:34	36:34	0	1.157	4393847	880594	2498	6245	353	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114L											
337.9207	37:06	37:06	0	1.174	7064640	1396573	4417	11042	316		
339.9178	37:05	37:06	-1	1.174	4410004	866573	2498	6245	347	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6593584	1315083	4417	11042	298		
339.9178	37:44	37:45	0	1.194	4178254	831810	2498	6245	333	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6873404	1319760	4417	11042	299		
339.9178	39:13	39:14	-1		4320131	844335	2498	6245	338	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:50	-1	1.292	6804853	1311983	4417	11042	297		
339.9178	40:49	40:50	-1	1.292	4293687	820299	2498	6245	328	1.58(1.32-1.78)	
PCB-104											
325.8804	25:42	25:44	-2	1.000	91641439	19929678	204	510	97695		
327.8775	25:42	25:44	-2	1.000	56952873	12327076	208	520	59265	1.61(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-2	1.015	102542335	23072958	204	510	113103		
327.8775	26:05	26:06	-2	1.015	63175957	14145257	208	520	68006	1.62(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	77236926	16910337	204	510	82894		
327.8775	28:01	28:02	-1	1.091	48027506	10390134	208	520	49953	1.61(1.32-1.78)	
PCB-94											
325.8804	28:14	28:16	-2	1.099	64361646	14100993	204	510	69123		
327.8775	28:14	28:16	-2	1.099	40042466	8717686	208	520	41912	1.61(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	71189073	15374081	204	510	75363		
327.8775	28:41	28:42	-1	1.117	44561451	9459574	208	520	45479	1.60(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-84											
325.8804	29:46	29:47	-2	1.158	62771900	13215233	204	510	64781		
327.8775	29:46	29:47	-2	1.158	38930080	8148115	208	520	39174	1.61(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	65561089	13914881	204	510	68210		
327.8775	30:15	30:16	-1	1.177	40810265	8540278	208	520	41059	1.61(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	117242210	25241857	204	510	123735		M
327.8775	30:40	30:41	-1	1.194	72252656	15416769	208	520	74119	1.62(1.32-1.78)	M
PCB-92											
325.8804	31:02	31:03	-1	0.856	73842228	15561985	204	510	76284		M
327.8775	31:02	31:03	-1	0.856	45192573	9580350	208	520	46059	1.63(1.32-1.78)	M
PCB-90											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	123930141	25631489	204	510	125645		
327.8775	32:19	32:20	-1	1.258	76647864	15734390	208	520	75646	1.62(1.32-1.78)	
PCB-86											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-110											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	72783513	14579713	204	510	71469		
327.8775	33:54	33:55	-1	1.320	45306794	8962422	208	520	43089	1.61(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	106780366	21942785	204	510	107563		
327.8775	34:19	34:19	0	1.336	65893572	13465718	208	520	64739	1.62(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	134486894	28035841	204	510	137431		
327.8775	34:46	34:47	-1	1.353	82570744	17174646	208	520	82570	1.63(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	172718968	33521584	89870	224675	373		
327.8775	36:09	36:09	0	1.407	107369316	20596508	54755	136887	376	1.61(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	160230112	33326256	89870	224675	371		
327.8775	36:16	36:16	0	1.001	98853143	20231964	54755	136887	369	1.62(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	160067274	33627824	89870	224675	374		
327.8775	36:22	36:23	-1	1.004	99138673	20763420	54755	136887	379	1.61(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	174825425	34549424	89870	224675	384		
327.8775	36:35	36:36	-1	1.000	108074624	21075996	54755	136887	385	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-122											
325.8804	36:56	36:56	0	1.010	133990253	27722160	89870	224675	308		
327.8775	36:56	36:56	0	1.010	83092925	17085468	54755	136887	312	1.61(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	160312832	31933104	89870	224675	355		
327.8775	37:07	37:08	-1	1.000	99594354	19609628	54755	136887	358	1.61(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	162331124	32150026	89870	224675	358		
327.8775	37:46	37:46	0	1.001	101145196	19783101	54755	136887	361	1.60(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	162924856	32273840	89870	224675	359		
327.8775	39:14	39:15	0	1.040	101086266	19800348	54755	136887	362	1.61(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.001	158585239	29099978	89870	224675	324		
327.8775	40:51	40:52	-1	1.001	98397742	17806698	54755	136887	325	1.61(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3375391	685626	73	182	9392		
373.8788	31:22	31:23	-1	0.790	2662518	549678	58	145	9477	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4295640	816748	2233	5582	366		
373.8788	39:41	39:41	0		3322328	637083	1531	3827	416	1.29(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4754884	936530	2233	5582	419		
373.8788	41:56	41:56	0	0.982	3673590	727866	1531	3827	475	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	5249808	1001272	2233	5582	448		
373.8788	42:42	42:42	0	1.076	4046405	790891	1531	3827	517	1.30(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	5216558	993155	2233	5582	445		
373.8788	47:05	47:05	0	1.186	4061824	784689	1531	3827	513	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	65706395	13562326	192	480	70637		
361.8385	31:24	31:25	-1	1.001	51356377	10648978	170	425	62641	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	71324068	14975190	192	480	77996		
361.8385	31:35	31:36	0	1.007	55992074	11665810	170	425	68622	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	71628088	15006934	192	480	78161		
361.8385	31:45	31:46	-1	1.012	55762894	11615378	170	425	68326	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:07	32:08	-1	1.024	72449923	15091158	192	480	78600		
361.8385	32:07	32:08	-1	1.024	56265978	11739026	170	425	69053	1.29(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	68489150	14361046	192	480	74797		
361.8385	32:24	32:25	-1	1.033	53482550	11300498	170	425	66474	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	54371007	11316356	192	480	58939		
361.8385	33:56	33:57	-1	1.082	42774983	8842898	170	425	52017	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.109	58114683	12025446	192	480	62633		
361.8385	34:46	34:47	-1	1.109	45565308	9399698	170	425	55292	1.28(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	54042862	11115878	192	480	57895		
361.8385	35:05	35:06	-1	1.118	42319176	8692370	170	425	51132	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-134											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	81022824	16396532	23763	59407	690		
361.8385	36:15	36:15	-1	1.155	64182080	12983683	15556	38890	835	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	82460255	17122833	23763	59407	721		
361.8385	36:23	36:24	-1	1.160	64992454	13576835	15556	38890	873	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:42	36:43	-1	1.170	75403630	15508049	23763	59407	653		
361.8385	36:42	36:43	-1	1.170	59328853	12227459	15556	38890	786	1.27(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	82622143	16295272	23763	59407	686		
361.8385	37:13	37:14	-1	1.186	65107881	12852802	15556	38890	826	1.27(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	106965169	21398791	23763	59407	901		
361.8385	37:37	37:37	0	0.881	84140799	16827523	15556	38890	1082	1.27(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	102556513	20464185	23763	59407	861		
361.8385	37:52	37:52	-1	0.887	81231392	16215939	15556	38890	1042	1.26(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	122208045	25964884	23763	59407	1093		
361.8385	37:59	38:00	0	0.890	95738385	20221315	15556	38890	1300	1.28(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570		
361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861	1.28(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570		
361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861	1.28(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	87183530	16663515	23763	59407	701		
361.8385	38:40	38:41	-1	0.905	68693132	13112195	15556	38890	843	1.27(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	70590154	14191917	23763	59407	597		
361.8385	39:04	39:05	-1	0.915	55845406	11226755	15556	38890	722	1.26(1.05-1.43)	
PCB-137											
359.8415	39:18	39:18	0	0.920	81266004	16759642	23763	59407	705		
361.8385	39:18	39:18	0	0.920	64386158	13221507	15556	38890	850	1.26(1.05-1.43)	
PCB-164											
359.8415	39:25	39:26	-1	0.923	110180720	21678450	23763	59407	912		
361.8385	39:25	39:26	-1	0.923	86456317	16986755	15556	38890	1092	1.27(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	40:06	40:07	0	0.939	134649798	25747198	23763	59407	1084		
361.8385	40:06	40:07	0	0.939	105576017	20078467	15556	38890	1291	1.28(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	150673522	30877043	23763	59407	1299		
361.8385	41:58	41:58	0	0.983	118194096	24096899	15556	38890	1549	1.27(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	127518301	24165293	23763	59407	1017		
361.8385	42:15	42:15	0	0.990	100356891	18921603	15556	38890	1216	1.27(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	119669602	23770381	23763	59407	1000		
361.8385	42:43	42:44	0	1.001	94138110	18595971	15556	38890	1195	1.27(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	123900521	23210929	23763	59407	977		
361.8385	47:06	47:06	0	1.001	96925792	18089681	15556	38890	1163	1.28(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3810326	749037	139	347	5389		
407.8398	37:06	37:07	-1	0.820	3630304	723097	71	177	10184	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2912463	555051	139	347	3993		
407.8398	45:15	45:15	0		2653771	494294	71	177	6962	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2282840	420841	139	347	3028		
407.8398	46:30	46:30	0	1.028	2121333	391359	71	177	5512	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5686955	1057620	686	1715	1542		
407.8398	49:37	49:37	0	1.096	5360571	997675	1347	3367	741	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	88590608	18021968	211	527	85412		
395.7995	37:07	37:08	-1	1.001	83467622	17002107	131	327	129787	1.06(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	87088746	17711221	211	527	83939		
395.7995	37:27	37:28	-1	1.010	82206017	16754555	131	327	127897	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											
393.8025	37:59	38:00	0	1.024	89044754	17993333	211	527	85276		
395.7995	37:59	38:00	0	1.024	84535271	16957563	131	327	129447	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	75912817	15207541	211	527	72074		
395.7995	38:20	38:21	-1	1.033	71908028	14408059	131	327	109985	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	94010378	18645621	211	527	88368		
395.7995	38:48	38:48	0	1.046	89347657	17743739	131	327	135448	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	55938483	10960757	211	527	51947		
395.7995	40:10	40:11	-1	1.083	52592596	10324347	131	327	78812	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	58681950	11492981	211	527	54469		
395.7995	40:48	40:49	-1	1.100	55852897	10954619	131	327	83623	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	69711534	13878901	211	527	65777		
395.7995	41:05	41:05	0	1.107	65998621	13174139	131	327	100566	1.06(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	-1	1.113	58163539	11271541	211	527	53420		
395.7995	41:17	41:18	-1	1.113	55170035	10674555	131	327	81485	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:56	41:56	0	1.130	61920573	12119925	211	527	57440		
395.7995	41:56	41:56	0	1.130	58857494	11538299	131	327	88079	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	59424413	11026805	211	527	52260		
395.7995	42:21	42:22	-1	1.142	56441168	10389883	131	327	79312	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	59210779	11665013	211	527	55284		
395.7995	42:45	42:45	0	1.152	56007586	11011195	131	327	84055	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	50296390	9575285	211	527	45381		
395.7995	44:37	44:37	0	0.899	48184037	9183355	131	327	70102	1.04(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-192											
393.8025	44:54	44:54	0	0.905	84437333	16501621	211	527	78207		
395.7995	44:54	44:54	0	0.905	79991603	15661179	131	327	119551	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	80941413	15733877	211	527	74568		
395.7995	45:37	45:37	0	0.919	75977242	14856059	131	327	113405	1.07(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	53503962	10206837	211	527	48374		
395.7995	46:31	46:32	0	0.938	50804365	9646203	131	327	73635	1.05(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	81369215	15287669	211	527	72453		
395.7995	47:02	47:02	0	0.948	76983210	14562171	131	327	111162	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	112922183	21964048	3458	8645	6352		
395.7995	49:38	49:38	0	1.000	108477497	21166671	3184	7960	6648	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2498219	475987	64	160	7437		
441.8008	42:28	42:28	0	0.821	2801438	526051	121	302	4348	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	0		3592214	660804	196	490	3371		
441.8008	51:43	51:43	1		3885779	721433	169	422	4269	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4229058	753316	196	490	3843		
441.8008	52:11	52:11	0	1.009	4594231	825501	169	422	4885	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	54297981	10483901	148	370	70837		
429.7606	42:29	42:29	0	1.001	60538224	11651819	127	317	91747	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	49654885	9560253	148	370	64596		
429.7606	43:24	43:25	0	1.022	55095929	10561452	127	317	83161	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	52752859	10231485	148	370	69132		
429.7606	44:05	44:05	0	1.038	58357176	11309996	127	317	89055	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	56582273	10830269	148	370	73177		
429.7606	44:19	44:19	0	1.044	63095428	12039340	127	317	94798	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	50924709	10079933	148	370	68108		
429.7606	44:25	44:25	0	1.046	56418474	11160492	127	317	87878	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-198											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	38498870	7361120	148	370	49737		
429.7606	47:53	47:53	0	0.917	42578105	8018111	127	317	63135	0.90(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	46981287	8847805	148	370	59782		
429.7606	48:05	48:05	0	0.921	51712560	9816492	127	317	77295	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	72820219	13840162	2371	5927	5837		
429.7606	49:24	49:23	1	0.947	81327625	15453088	3297	8242	4687	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	81740556	15676873	2371	5927	6612		
429.7606	51:44	51:44	0	0.991	91827173	17696528	3297	8242	5367	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	93687224	17590743	2371	5927	7419		
429.7606	52:13	52:13	0	1.000	104944384	19787457	3297	8242	6002	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3260539	614013	931	2327	660		
475.7619	49:08	49:09	0	0.950	4015145	752424	560	1400	1344	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:57	0	1.043	2334750	421215	931	2327	452		
475.7619	53:56	53:57	0	1.043	2861733	516695	560	1400	923	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	73033644	14091736	3209	8022	4391		
463.7216	49:10	49:10	0	1.001	93621692	18104805	3040	7600	5956	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	74939361	14301127	3209	8022	4457		
463.7216	50:05	50:05	0	1.019	96043653	18416076	3040	7600	6058	0.78(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	58039089	10750763	3209	8022	3350		M
463.7216	53:58	53:58	0	1.000	74588363	13891142	3040	7600	4569	0.78(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.075	2043151	345671	197	492	1755		
509.7229	55:35	55:34	1	1.075	2859018	491621	78	195	6303	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:36	0	1.000	44895758	7820681	72	180	108621		
497.6826	55:35	55:36	0	1.000	64330706	11324650	62	155	182656	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L51668P_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

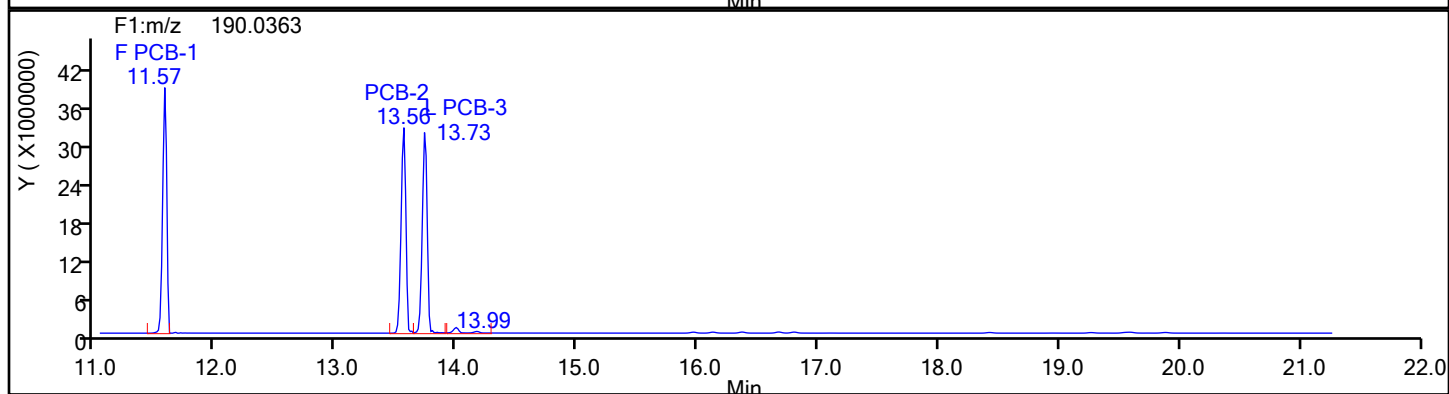
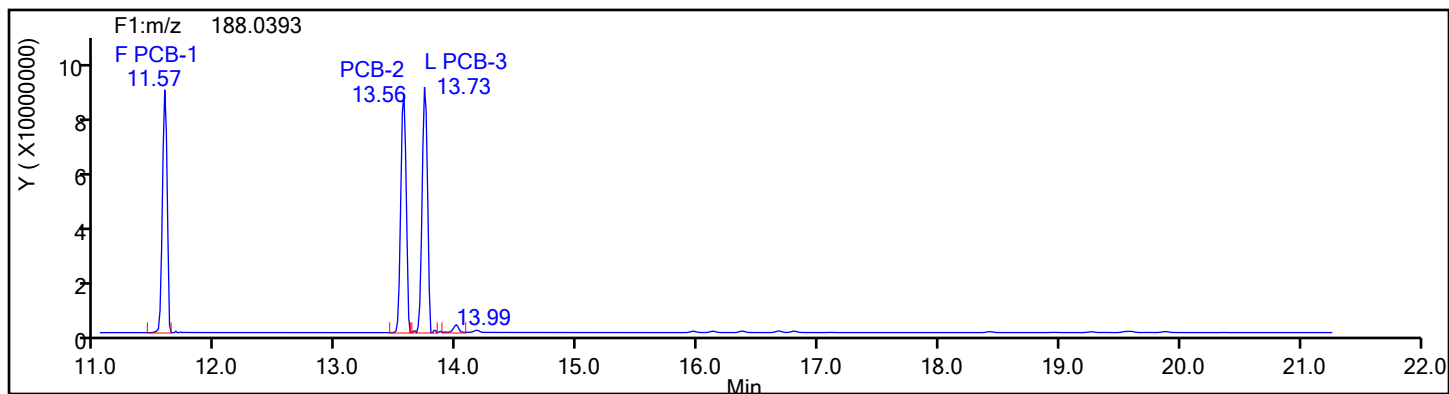
Worklist#: 87130

Sample Line#: 6

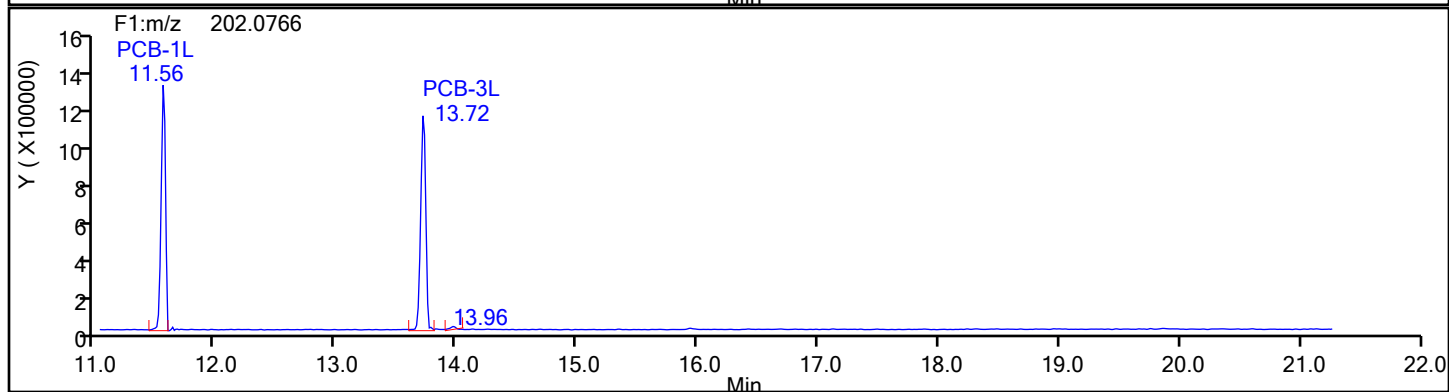
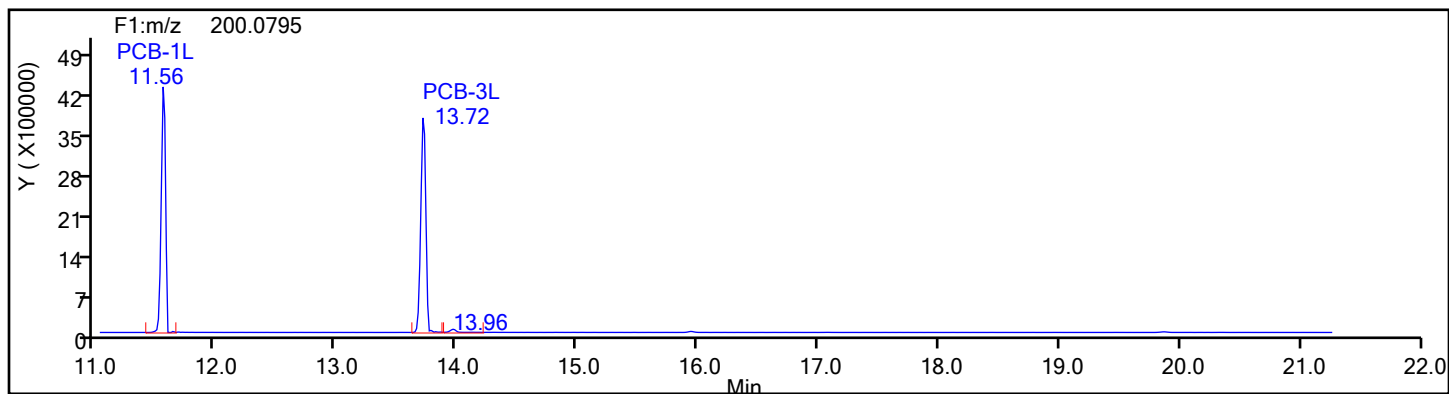
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

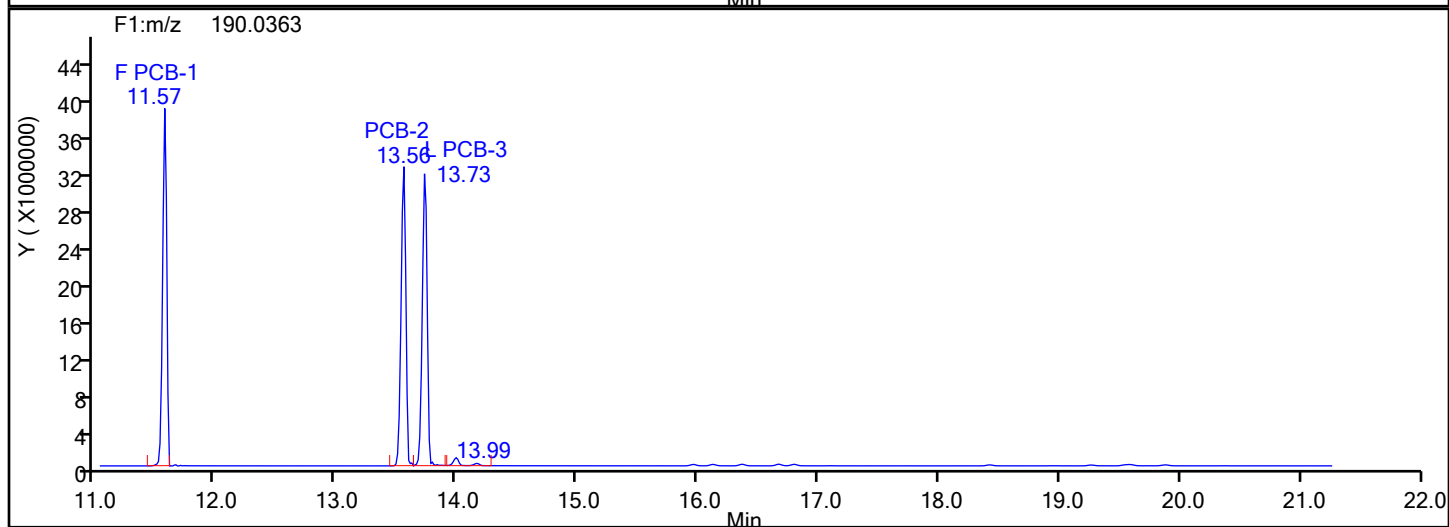
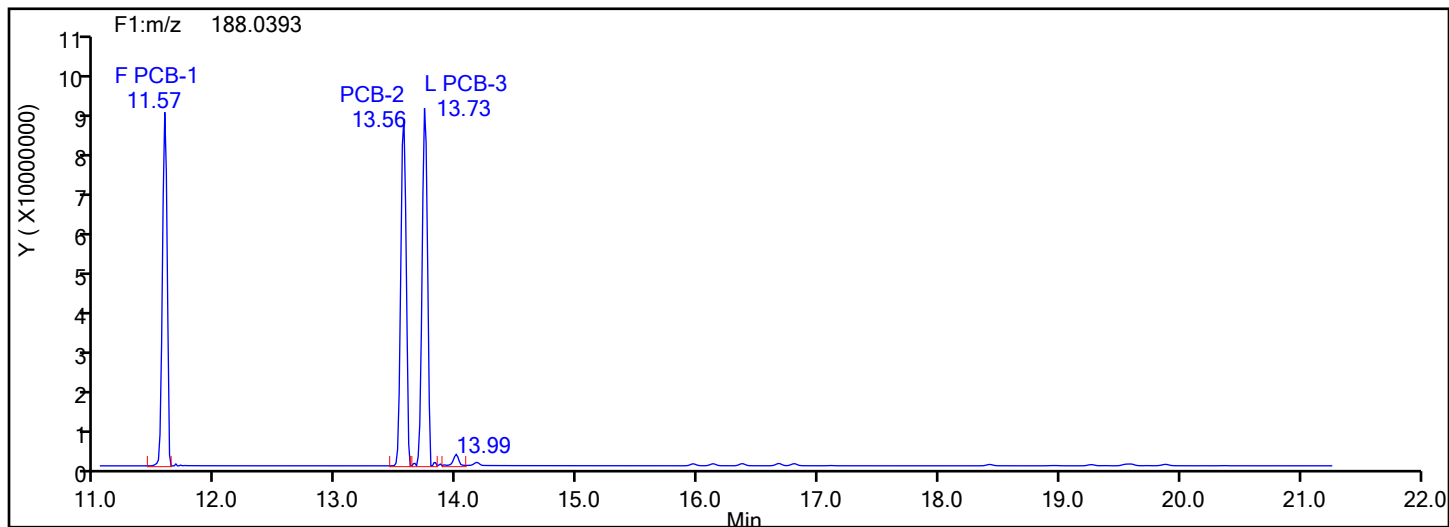
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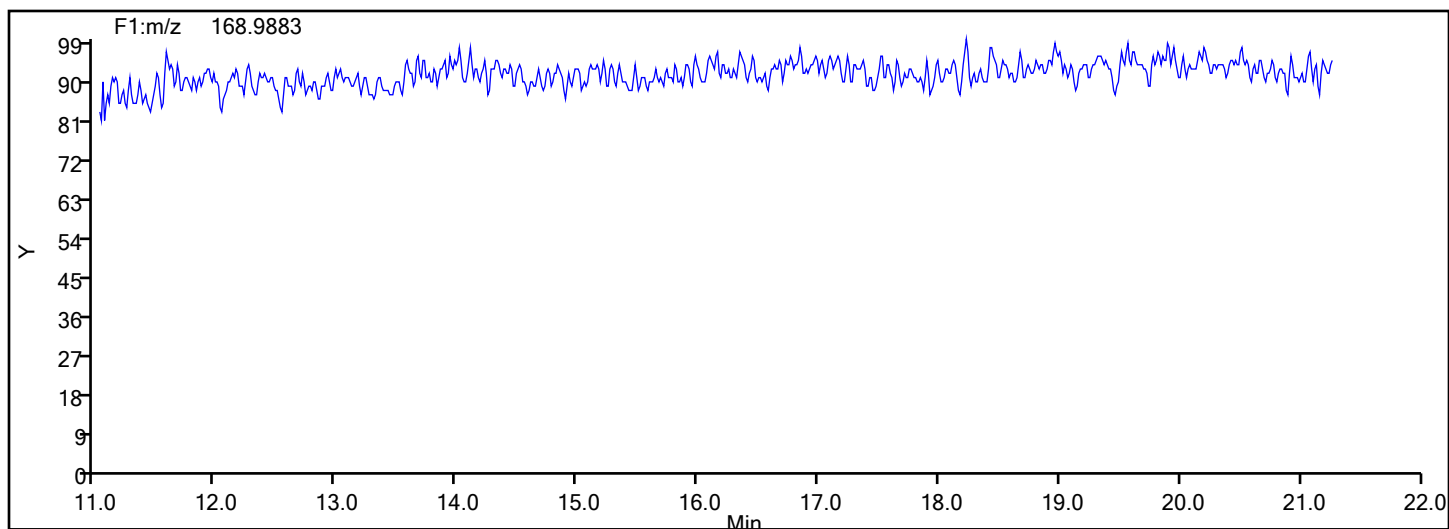
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

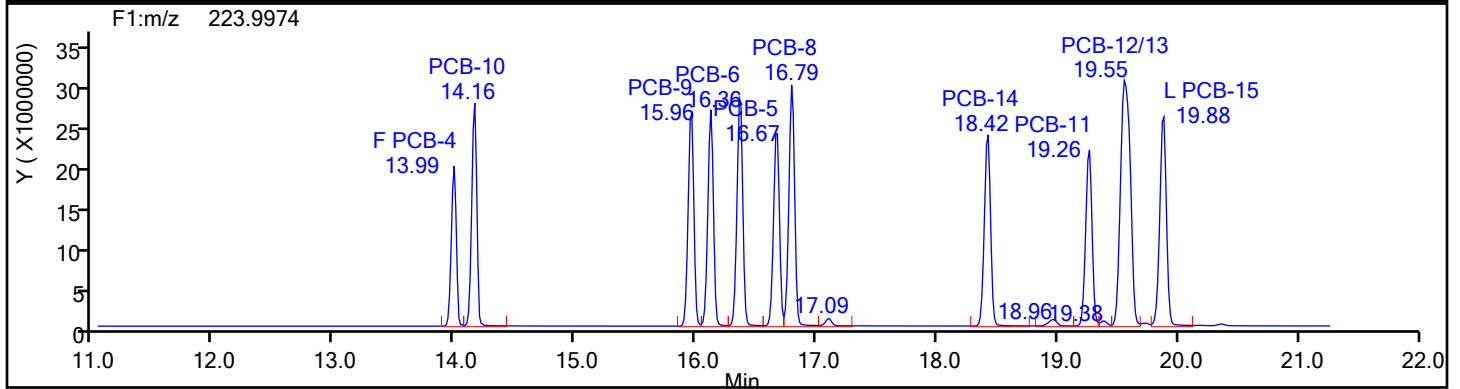
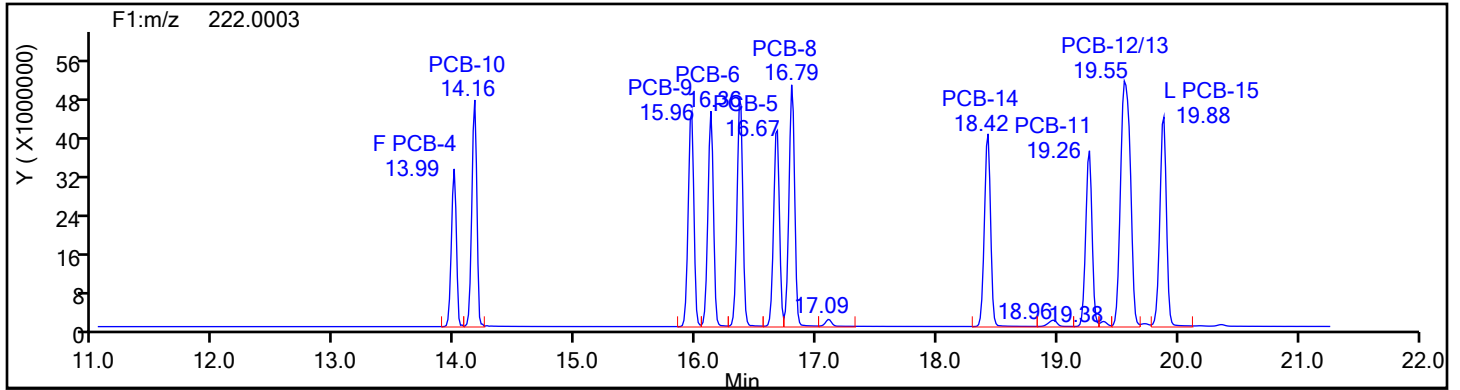
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Sample Line#: 6

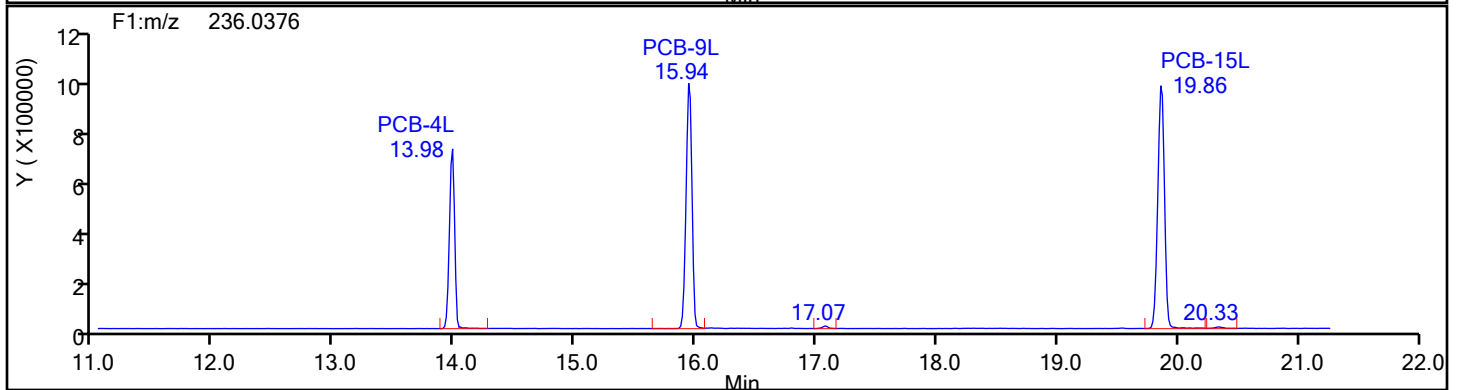
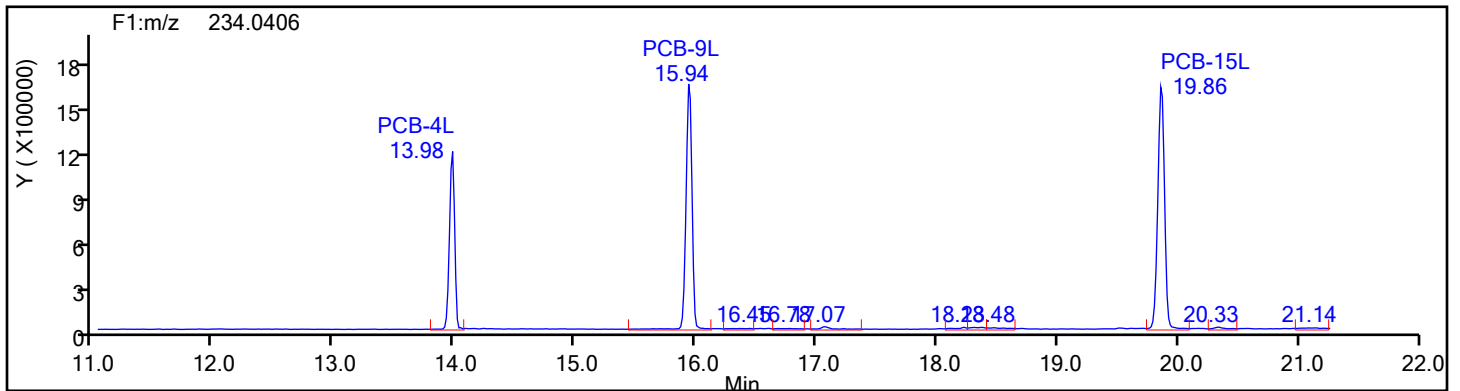
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

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Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

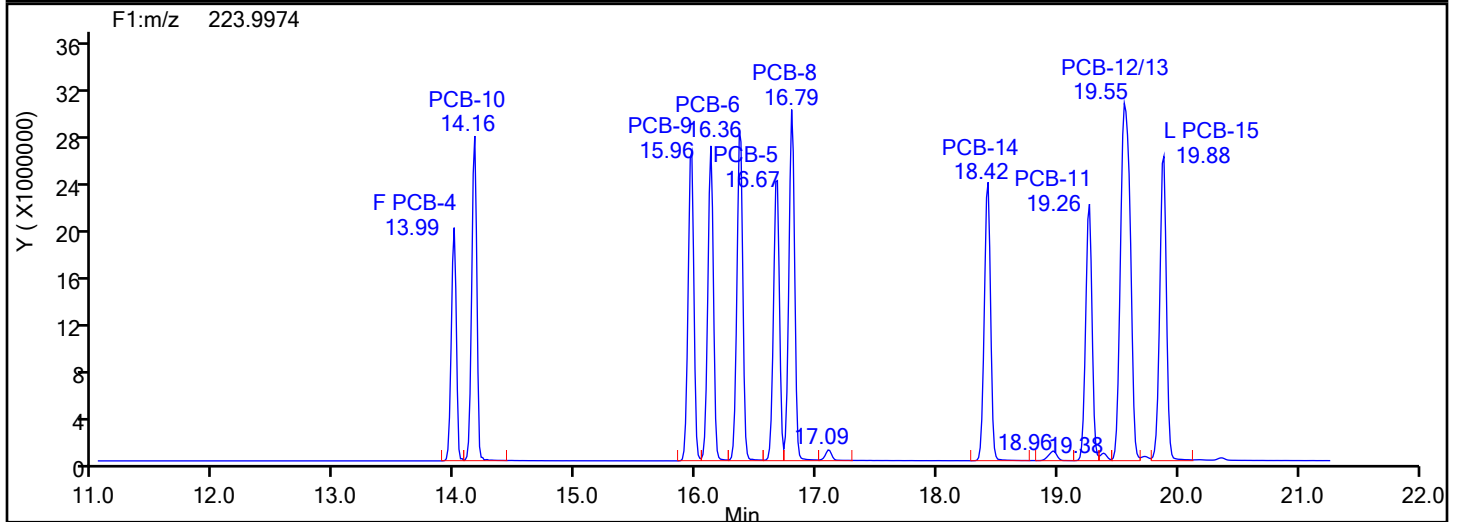
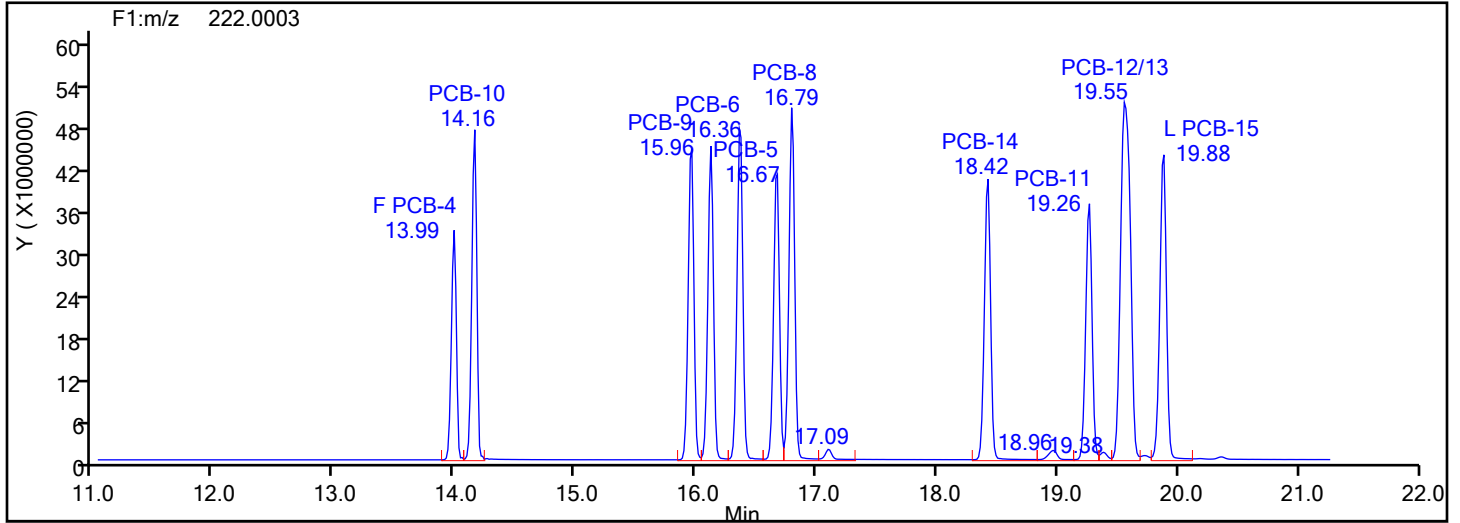
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Sample Line#: 6

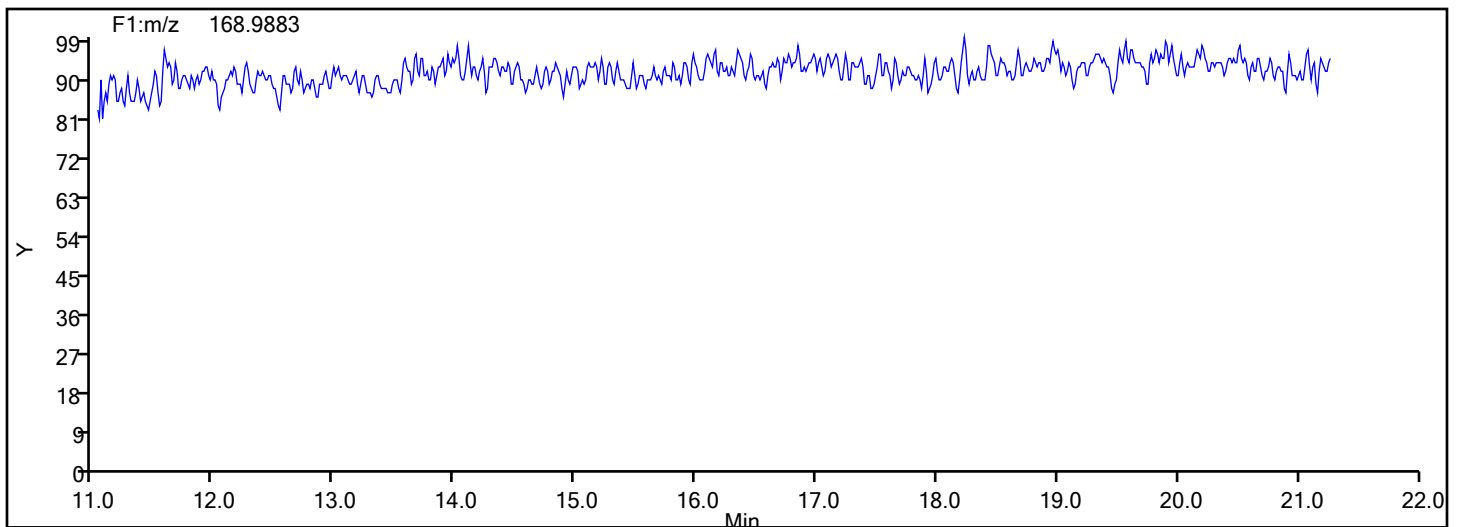
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

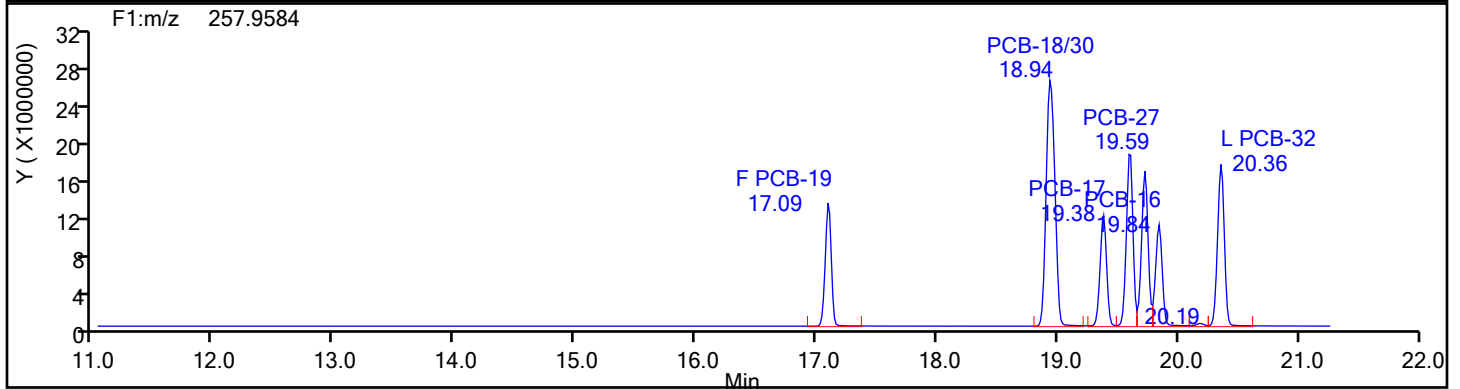
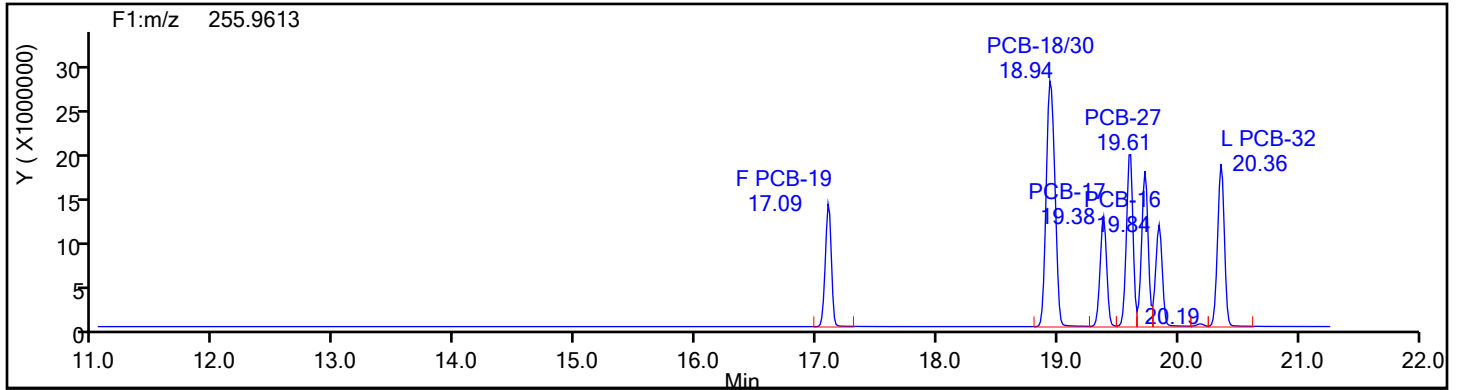
Worklist#: 87130

Sample Line#: 6

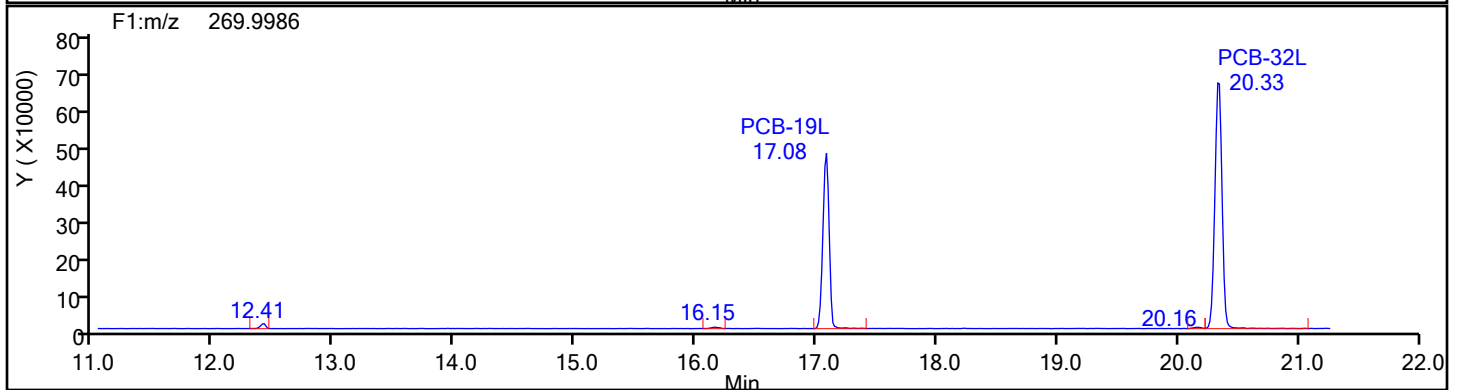
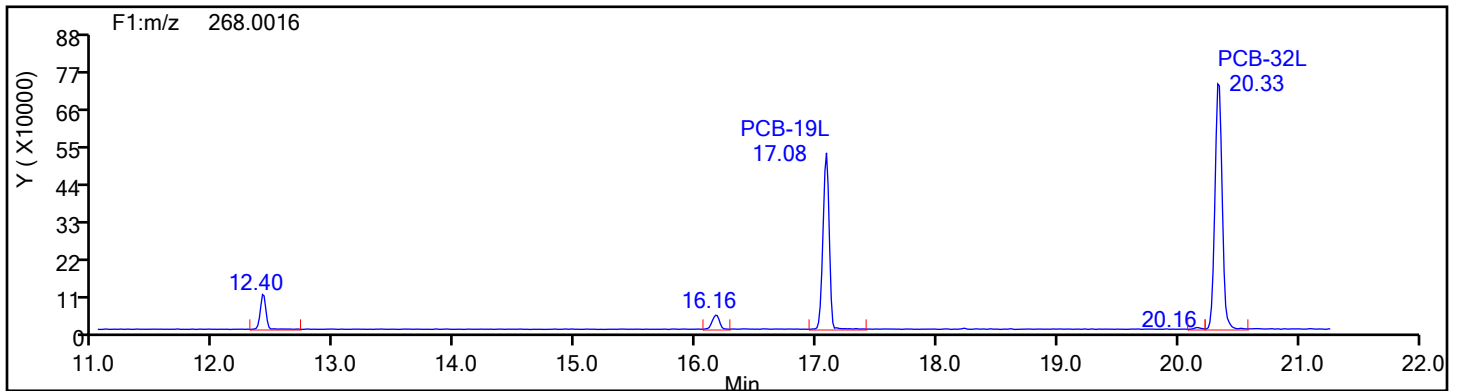
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

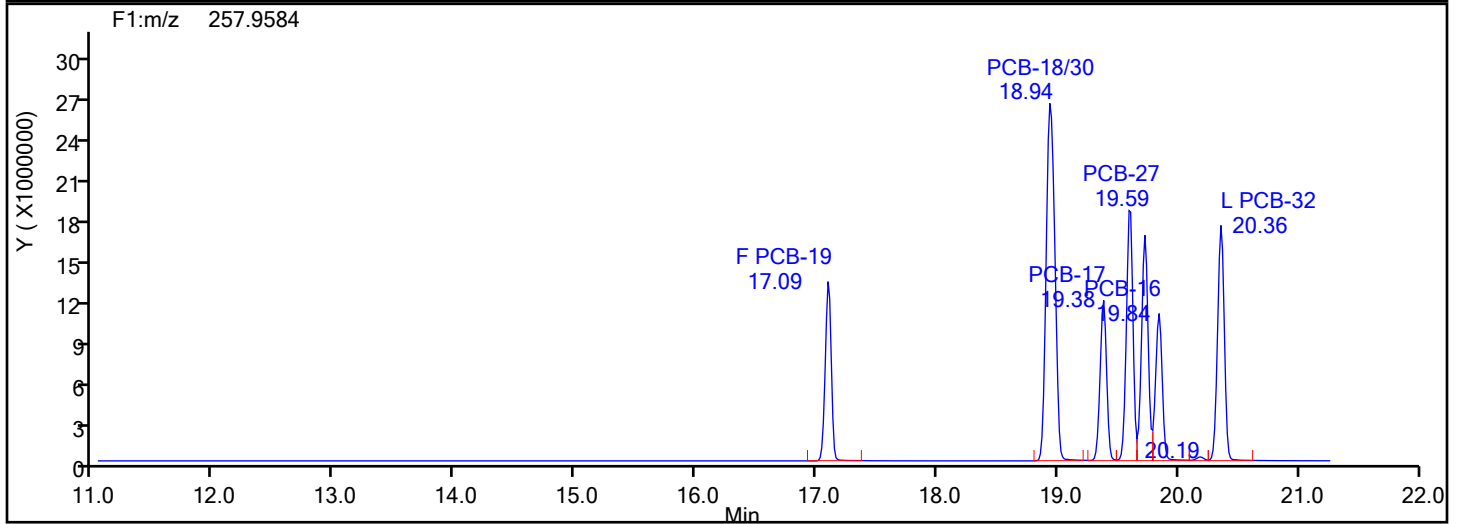
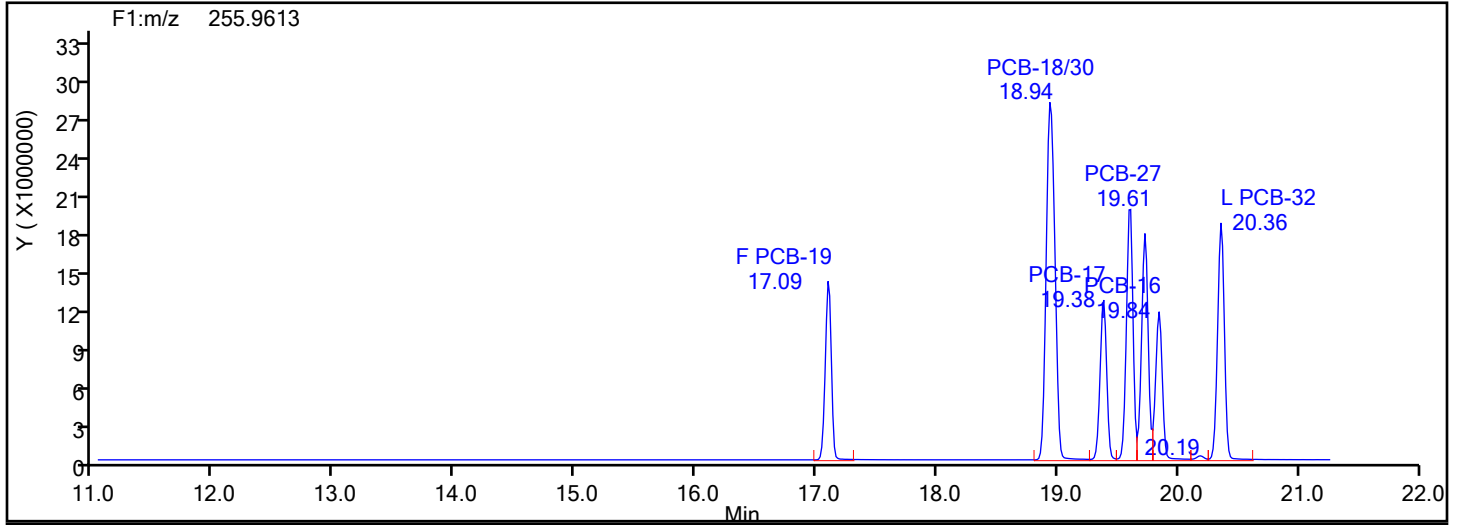


TriPCB F1 Standards

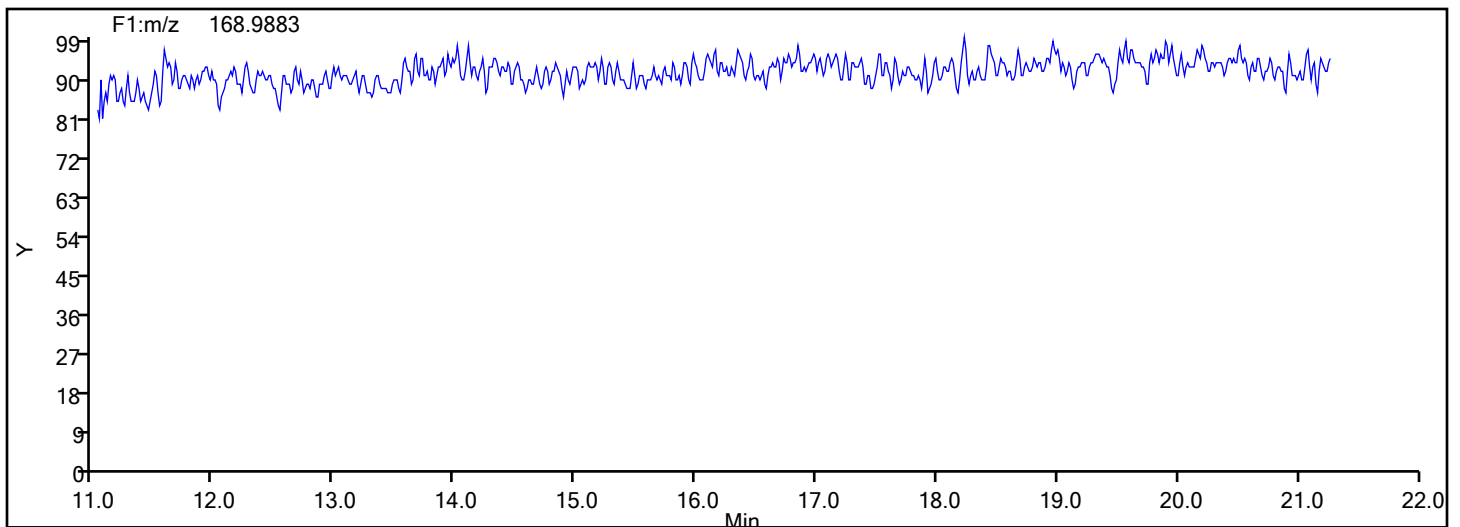


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

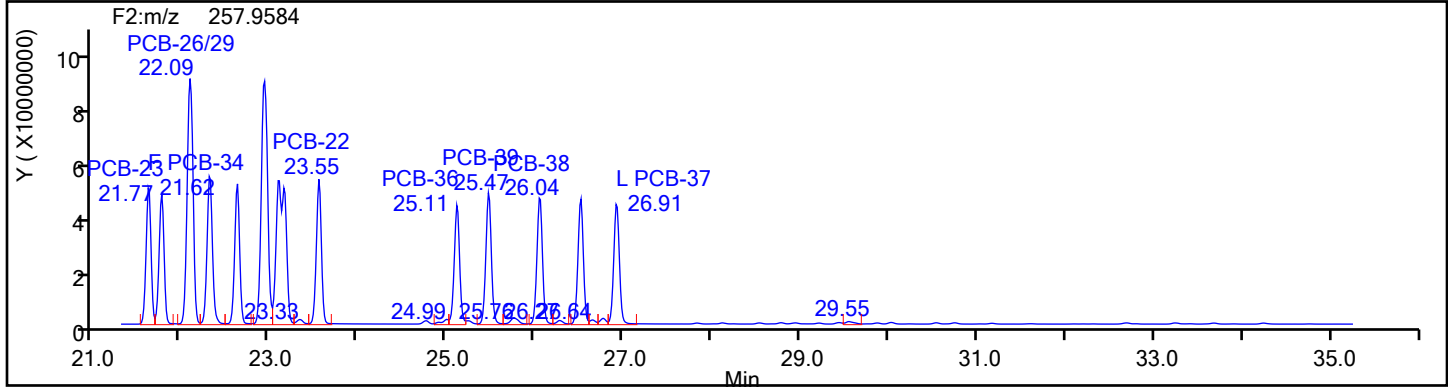
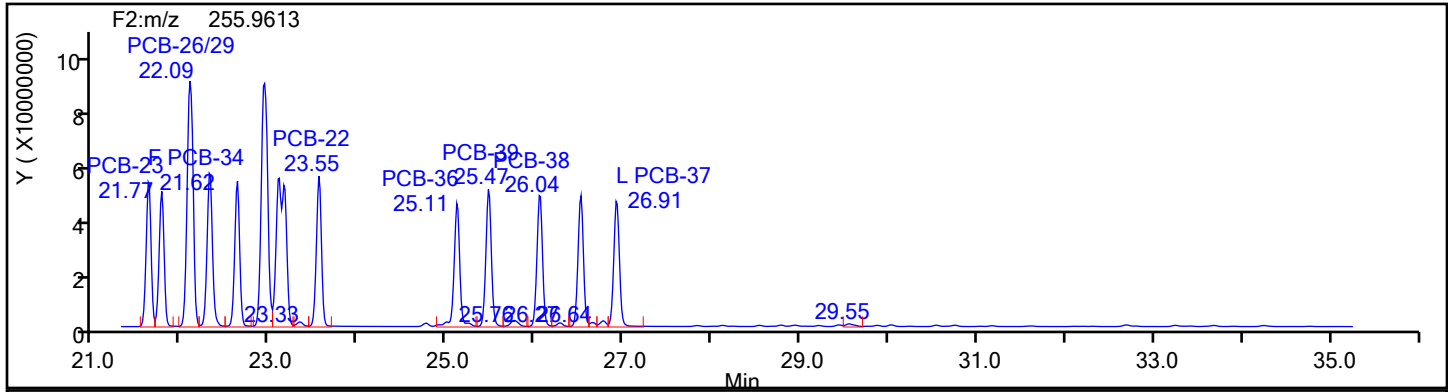
Worklist#: 87130

Sample Line#: 6

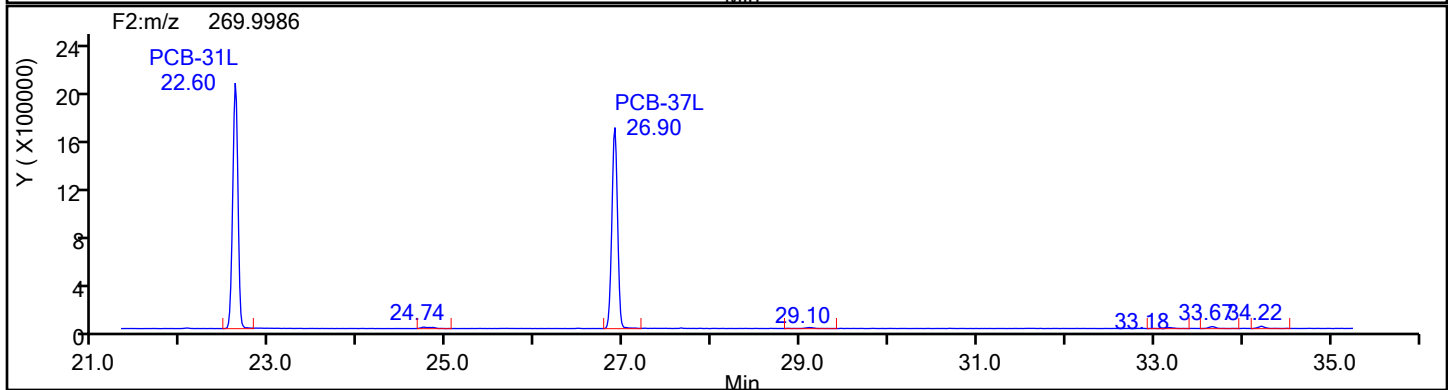
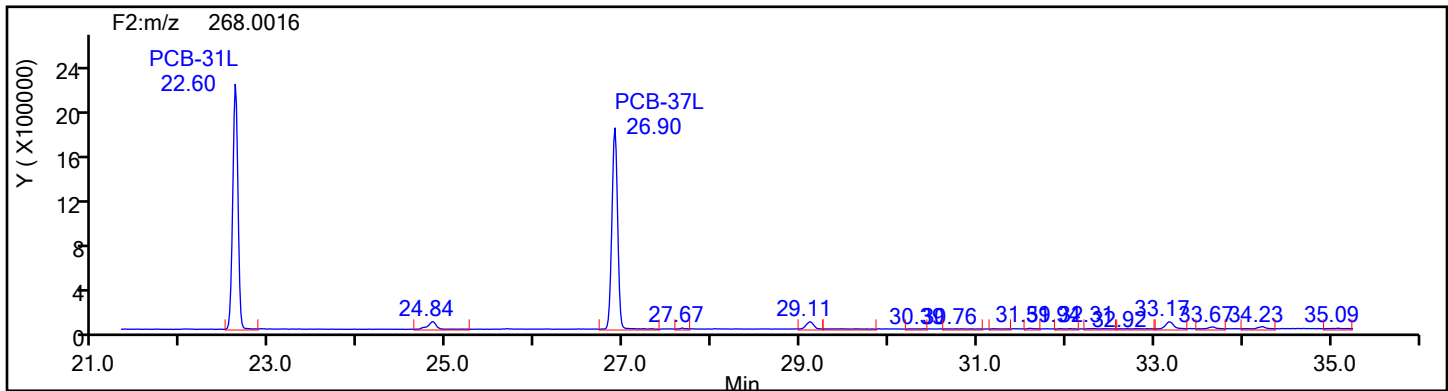
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

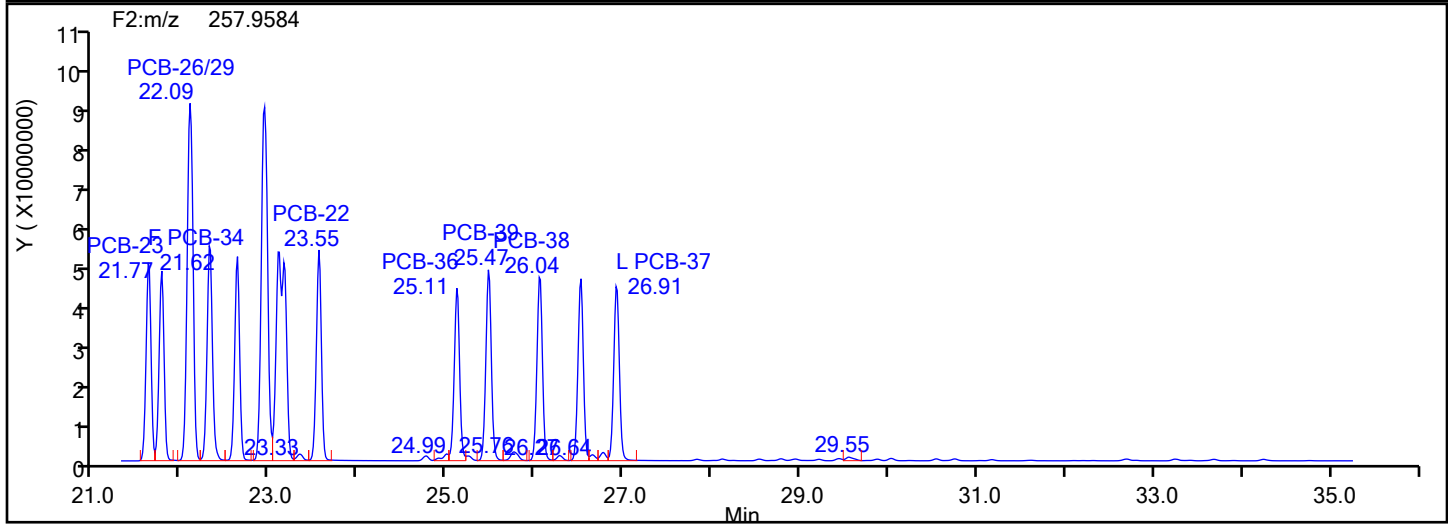
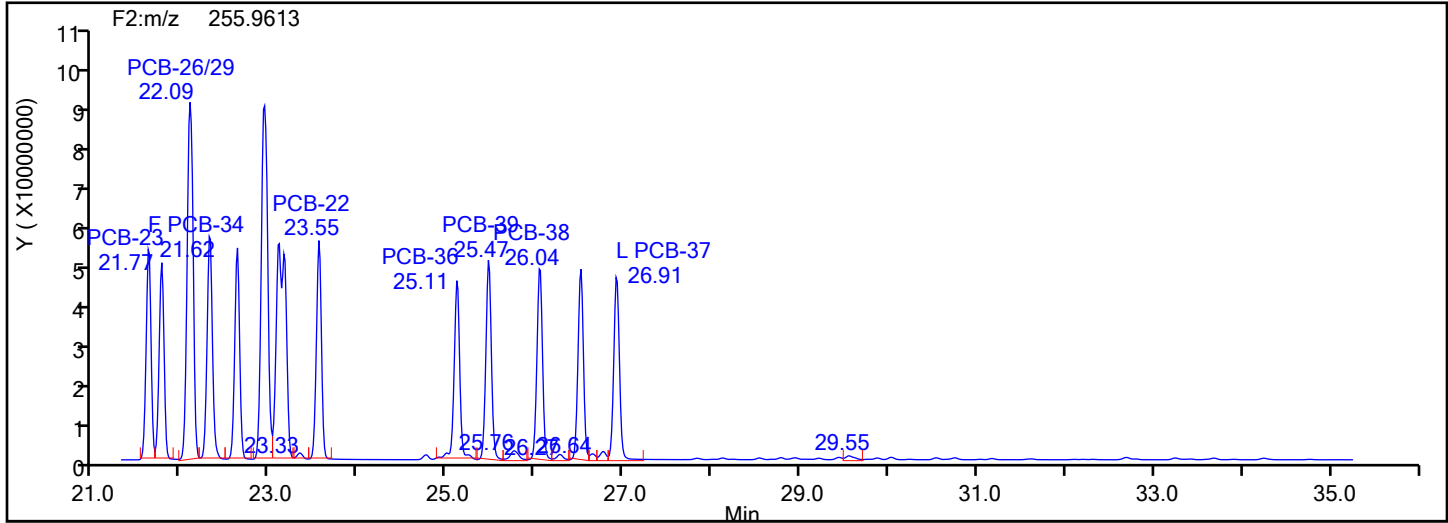
Worklist#: 87130

Sample Line#: 6

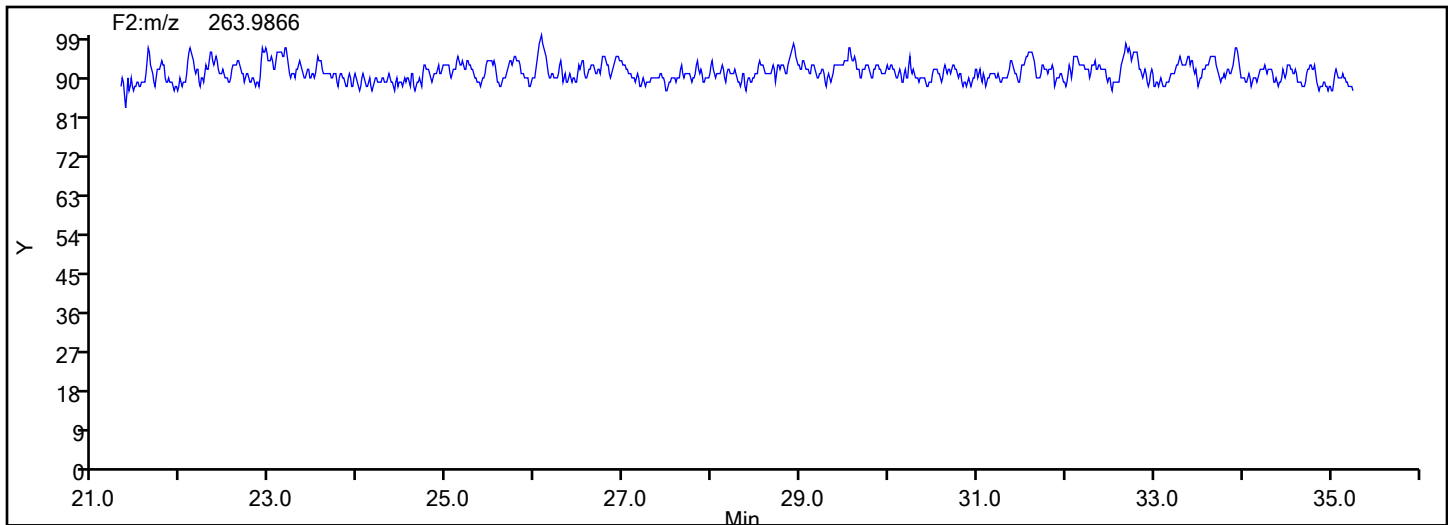
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

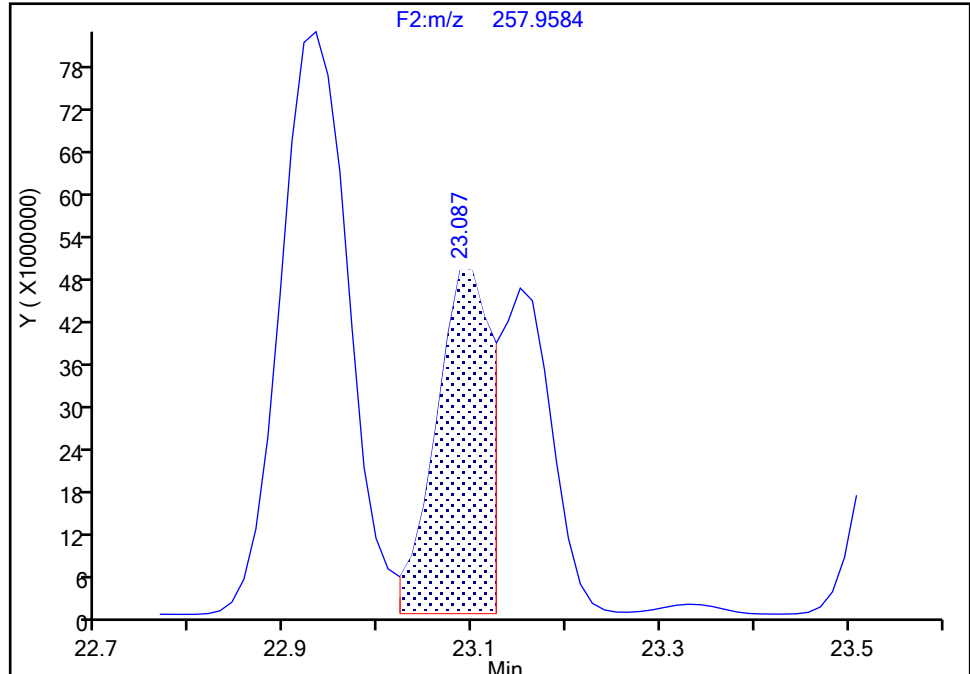
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

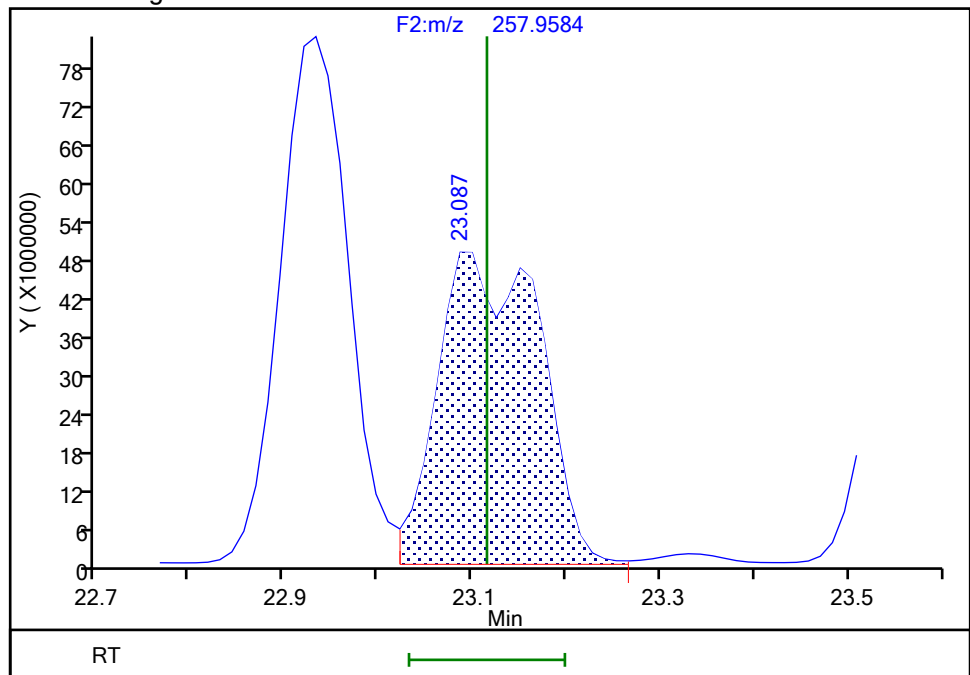
RT: 23.09
Area: 193872911
Amount: 2587.0057
Amount Units: pg/ul

Processing Integration Results



RT: 23.09
Area: 368971251
Amount: 4484.0654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

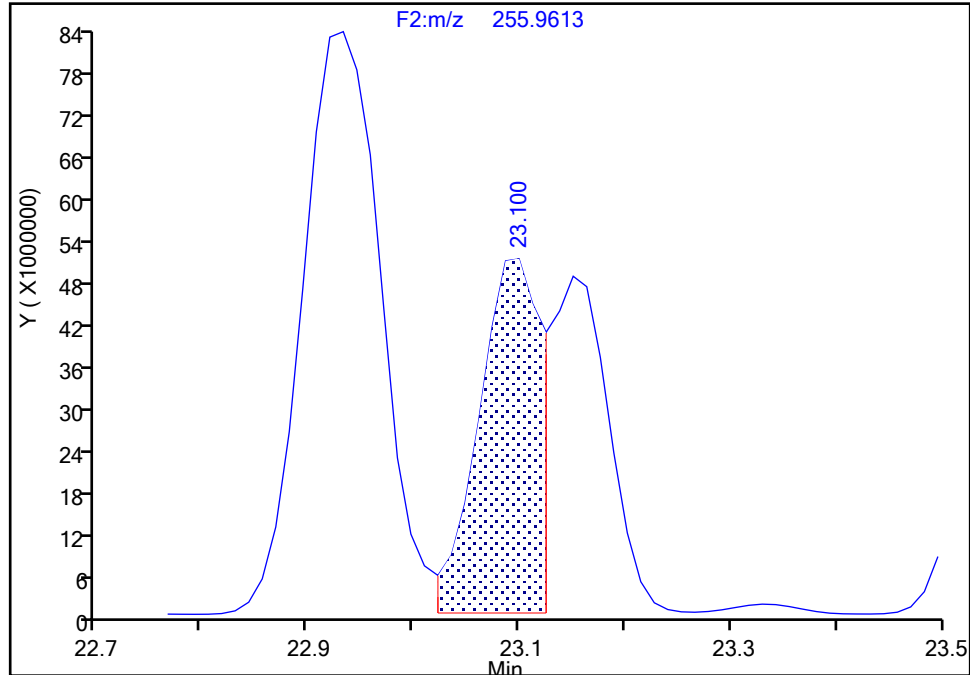
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

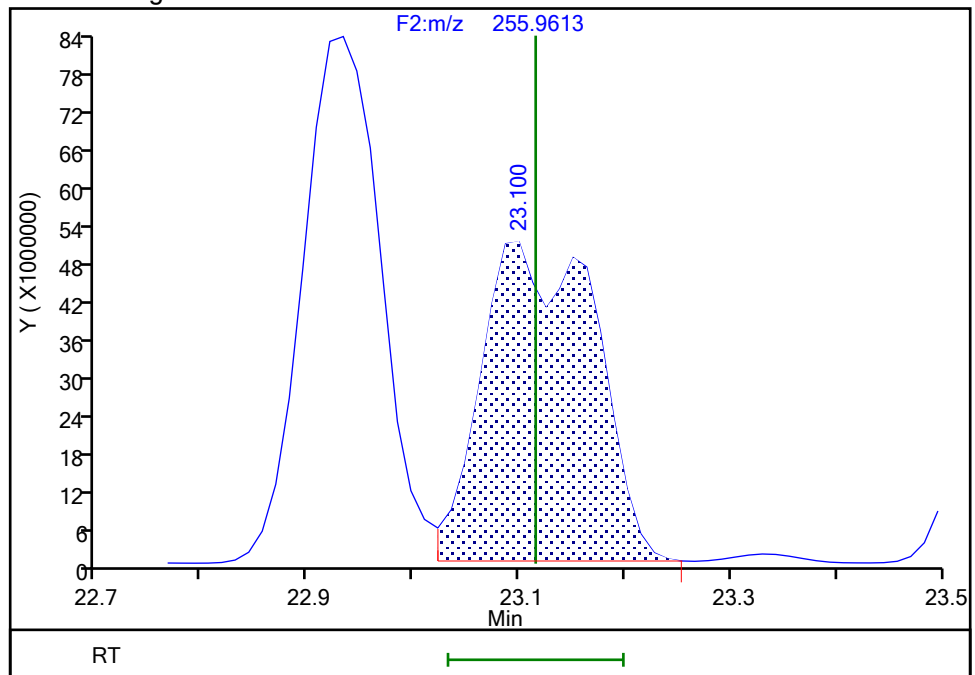
RT: 23.10
Area: 200171472
Amount: 2587.0057
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 380418482
Amount: 4484.0654
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2232 of 3050

BASFWHC-McIntosh-010233

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

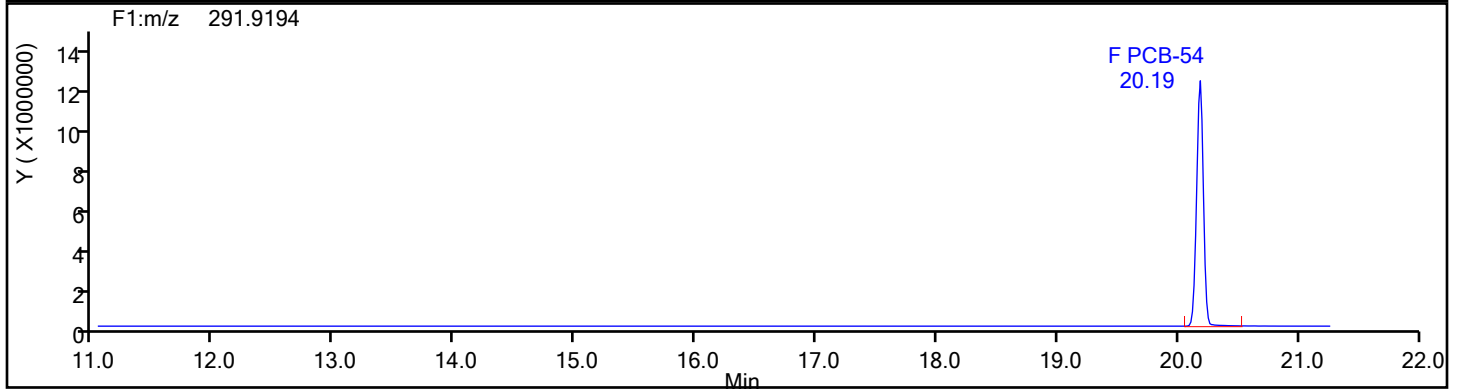
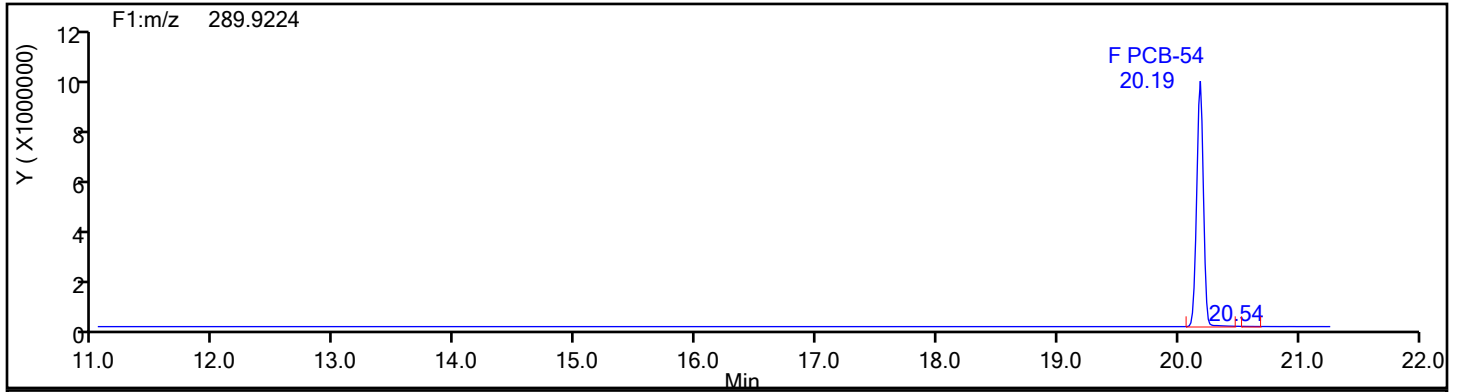
Worklist#: 87130

Sample Line#: 6

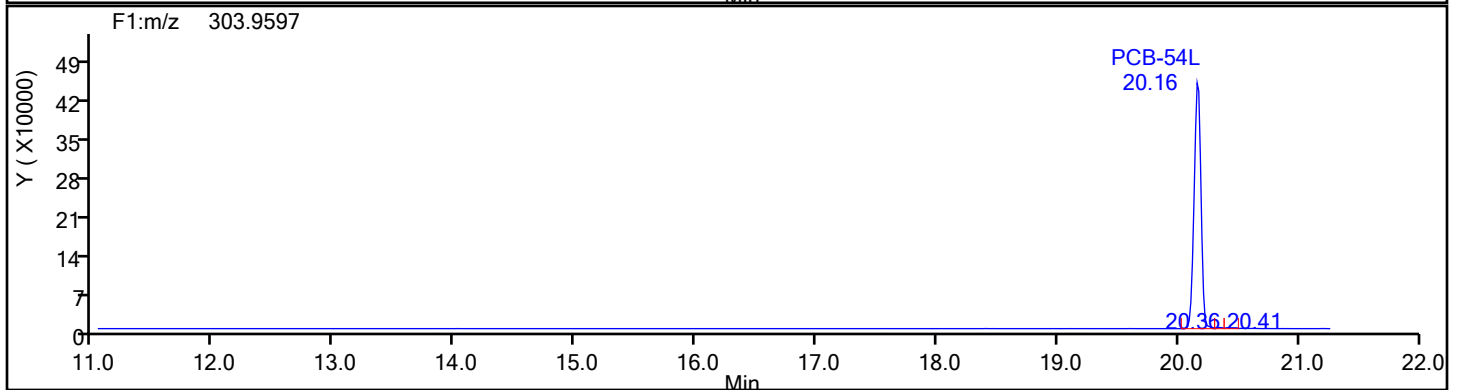
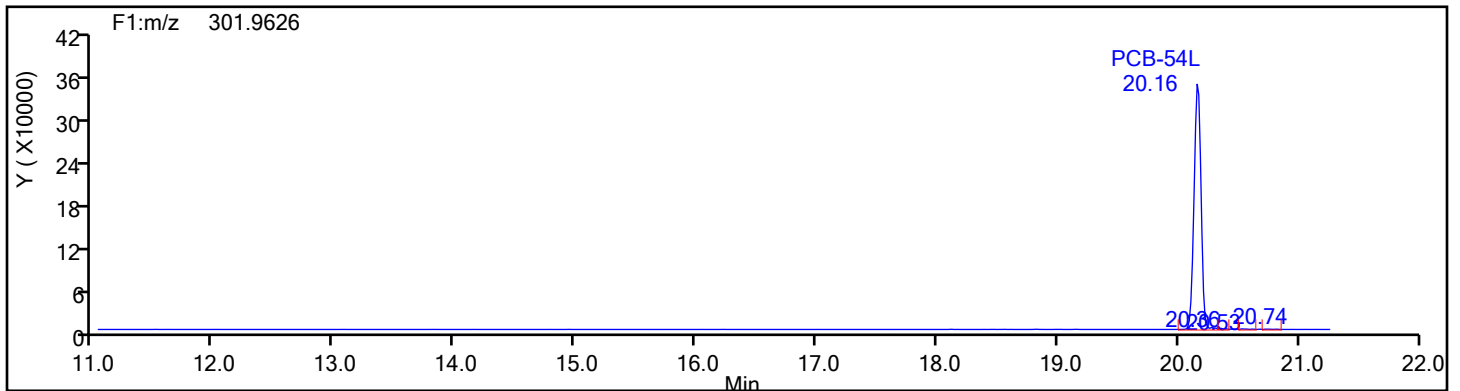
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

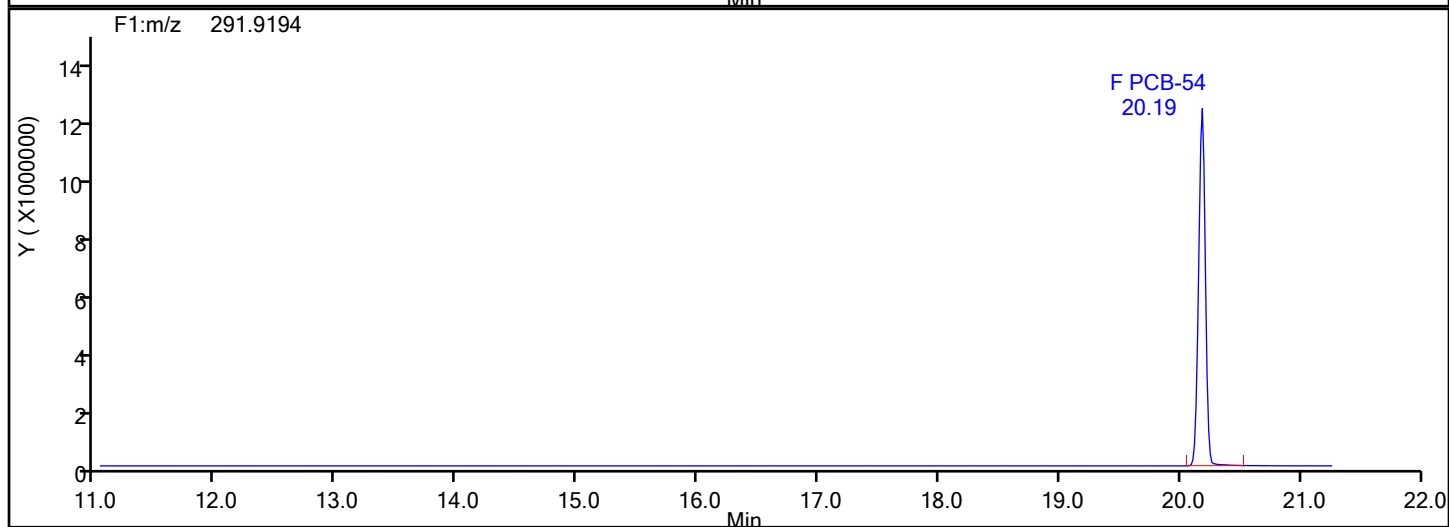
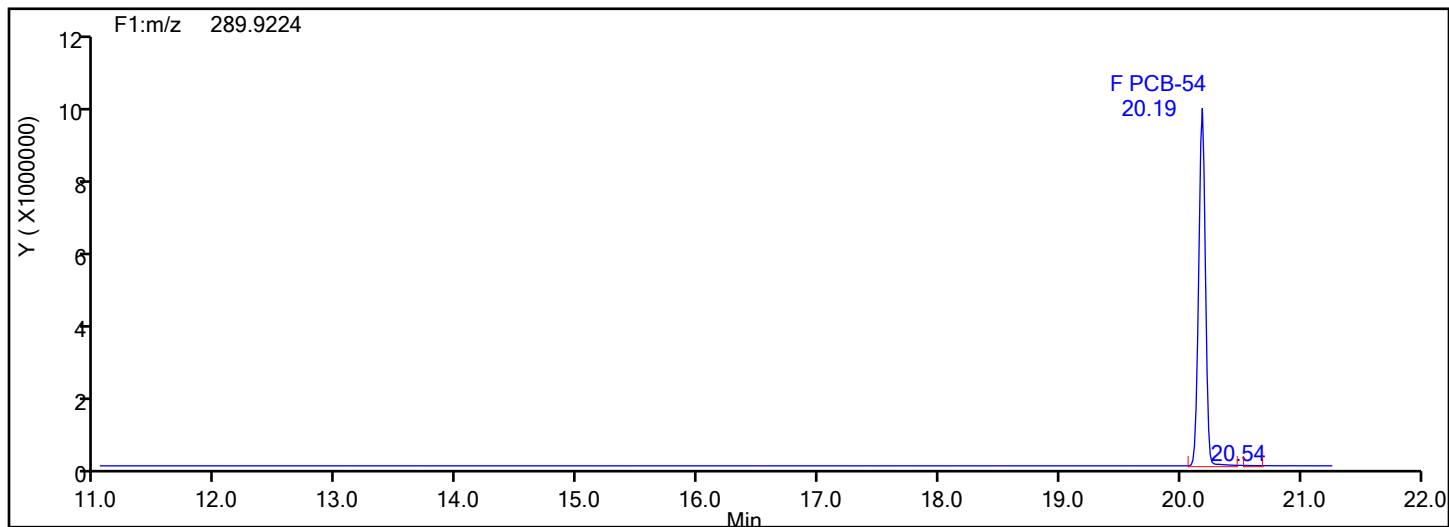
Worklist#: 87130

Sample Line#: 6

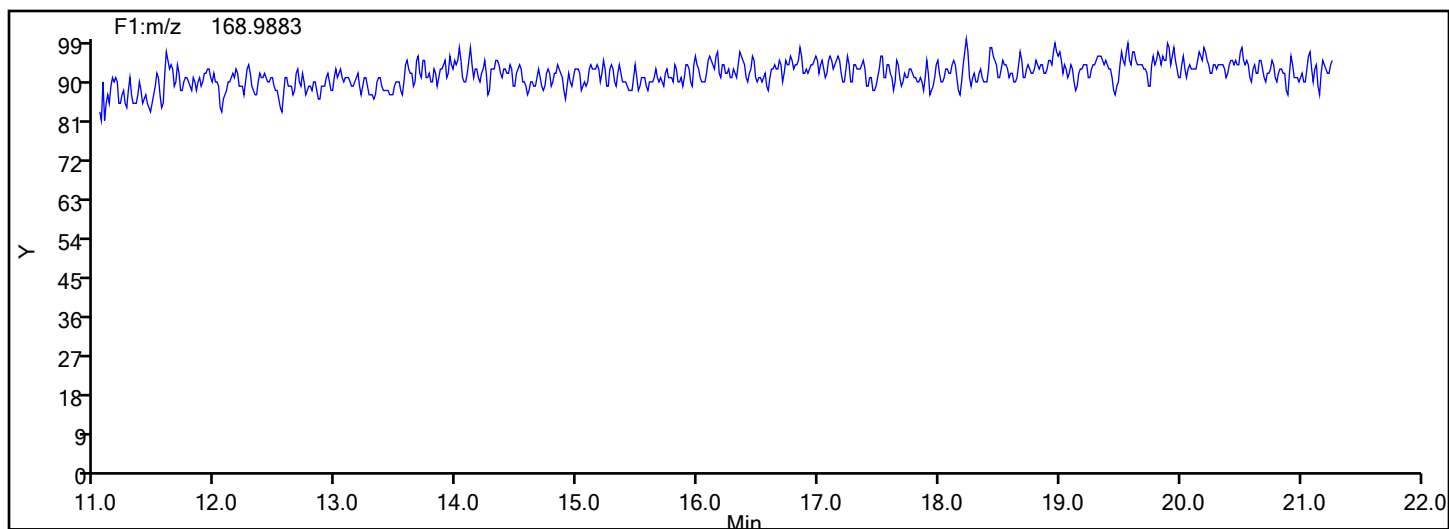
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

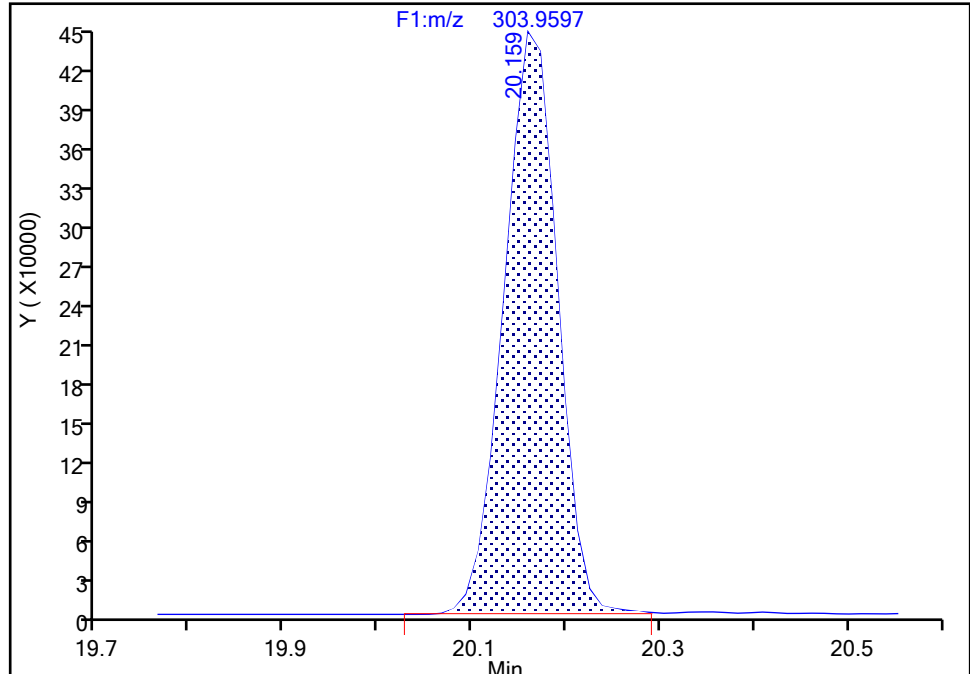
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

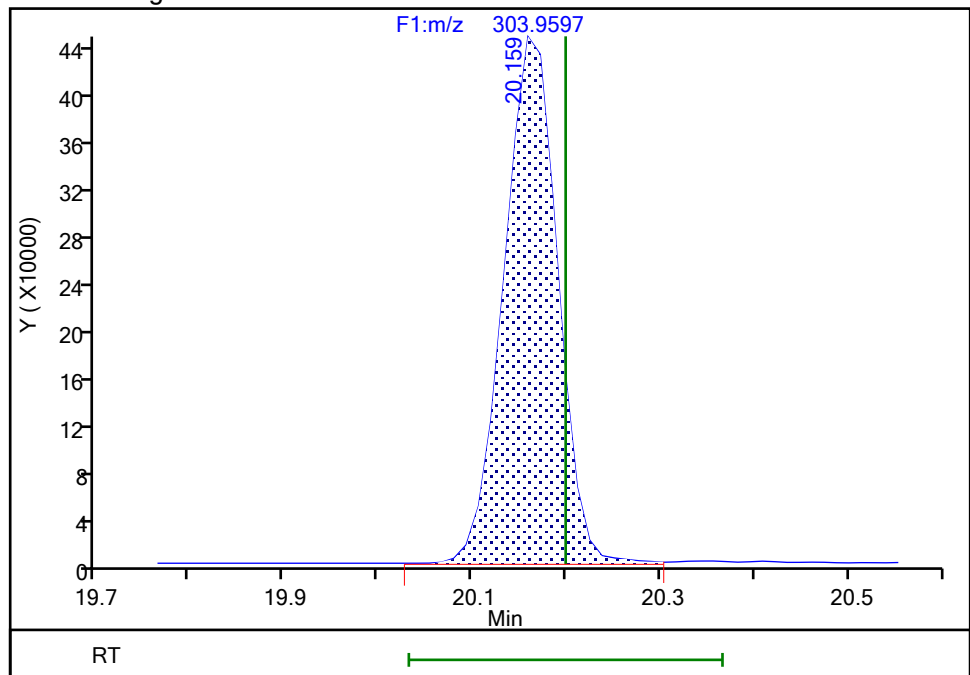
RT: 20.16
Area: 1770178
Amount: 96.965661
Amount Units: pg/ul

Processing Integration Results



RT: 20.16
Area: 1783210
Amount: 97.298516
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

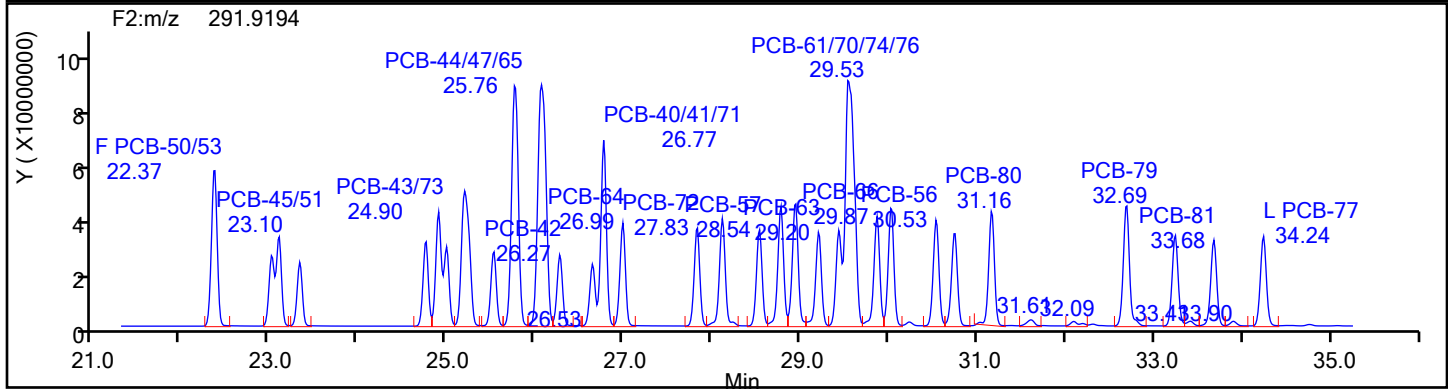
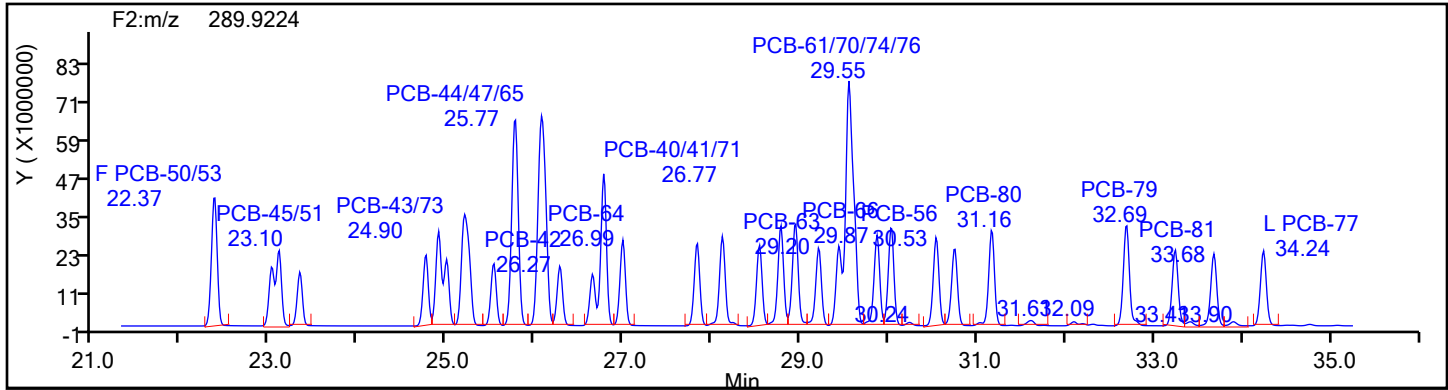
Worklist#: 87130

Sample Line#: 6

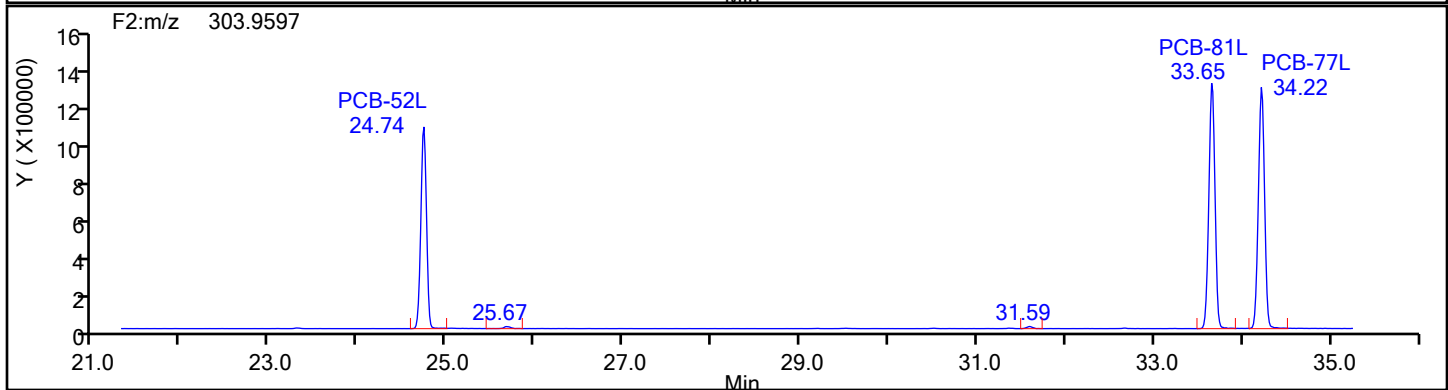
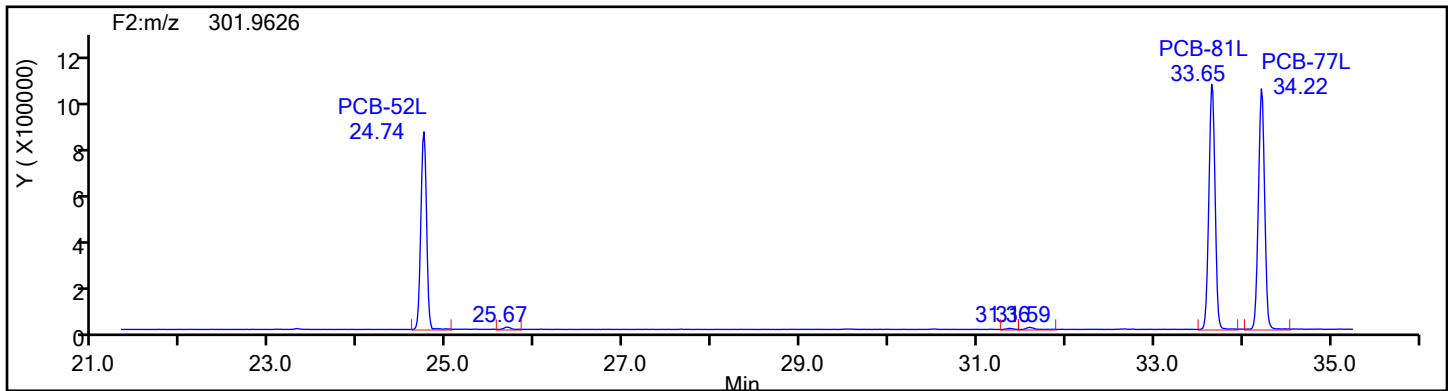
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

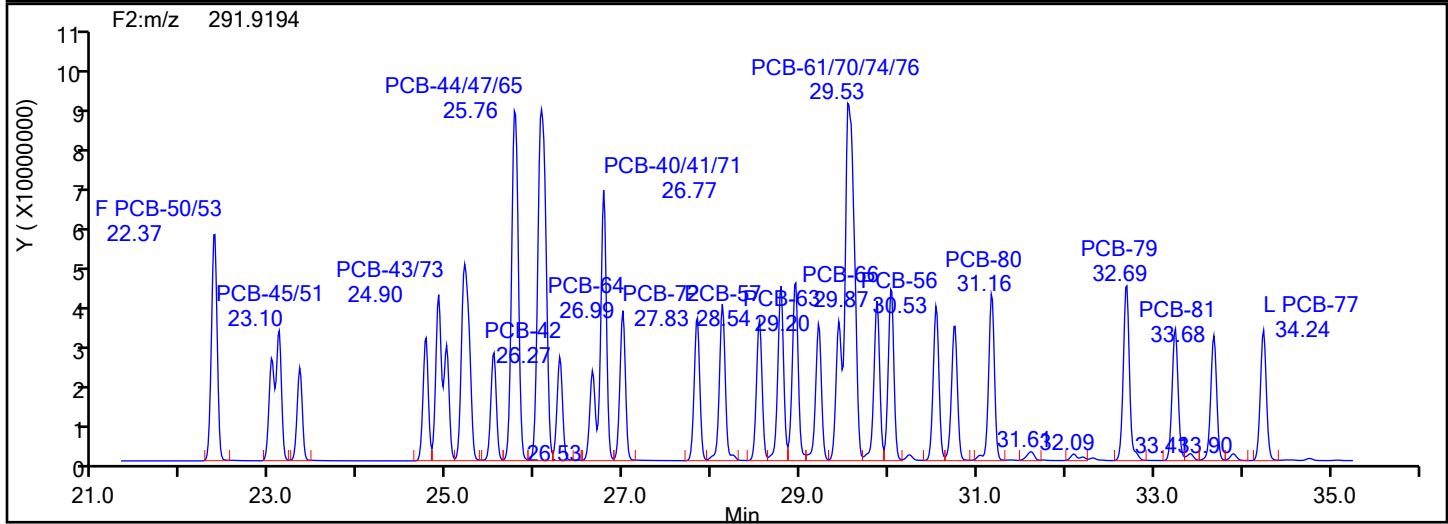
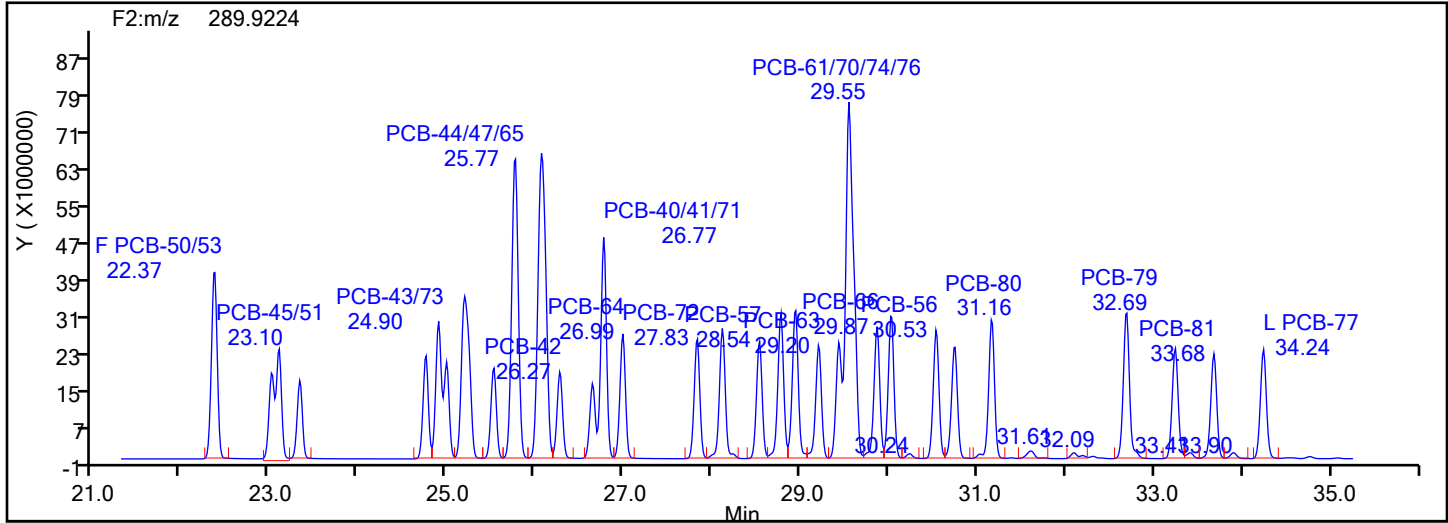
Worklist#: 87130

Sample Line#: 6

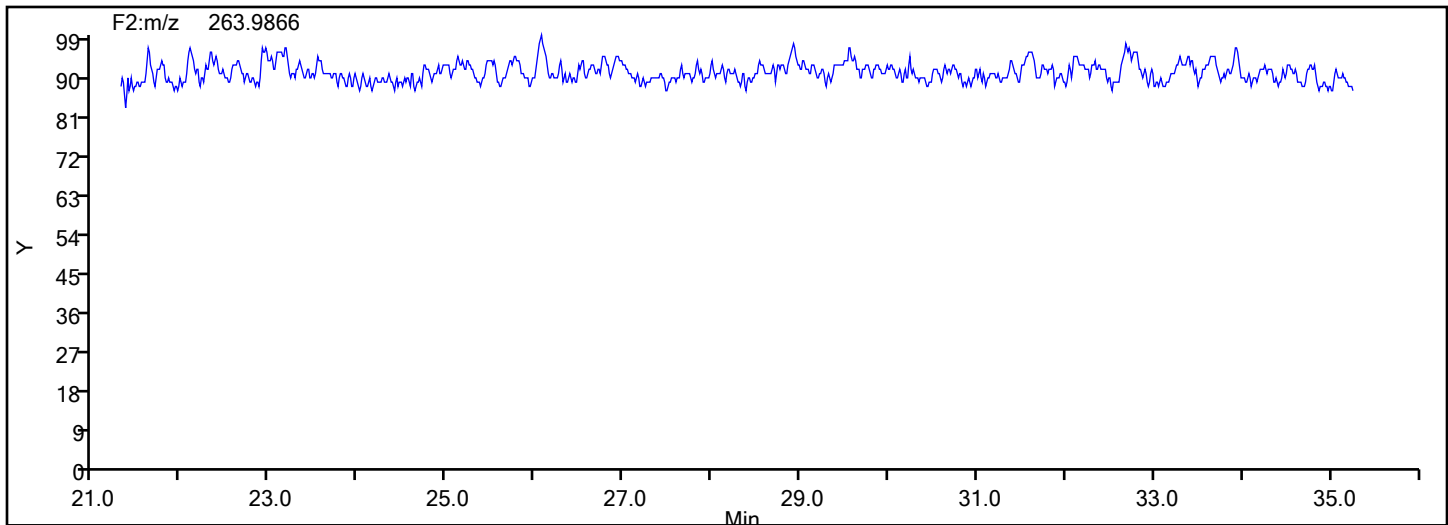
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

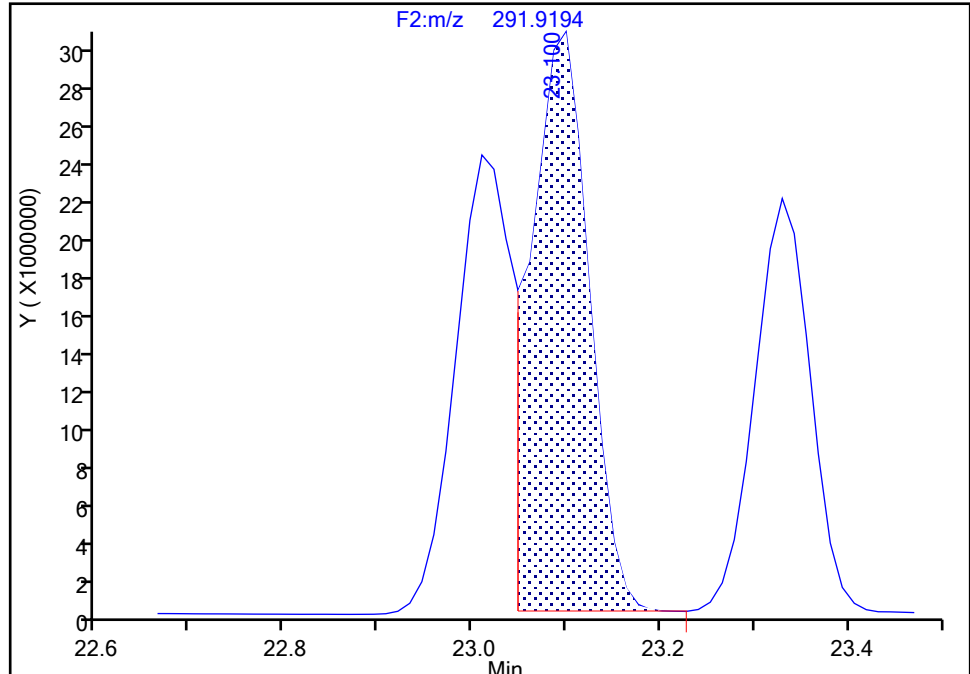
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

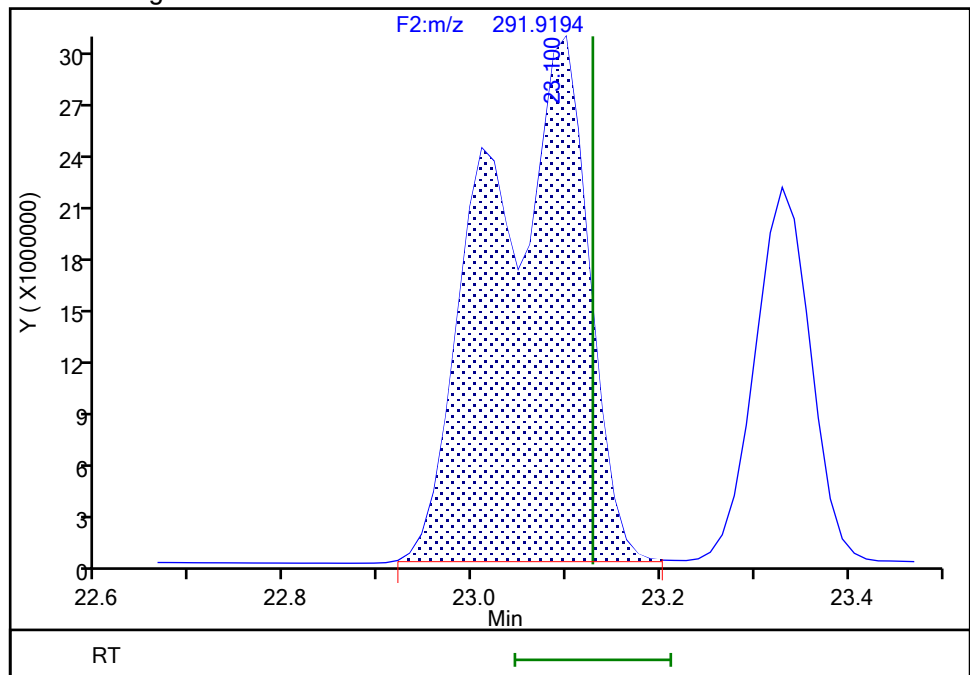
RT: 23.10
Area: 126924557
Amount: 2641.0659
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 223614074
Amount: 4329.7434
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

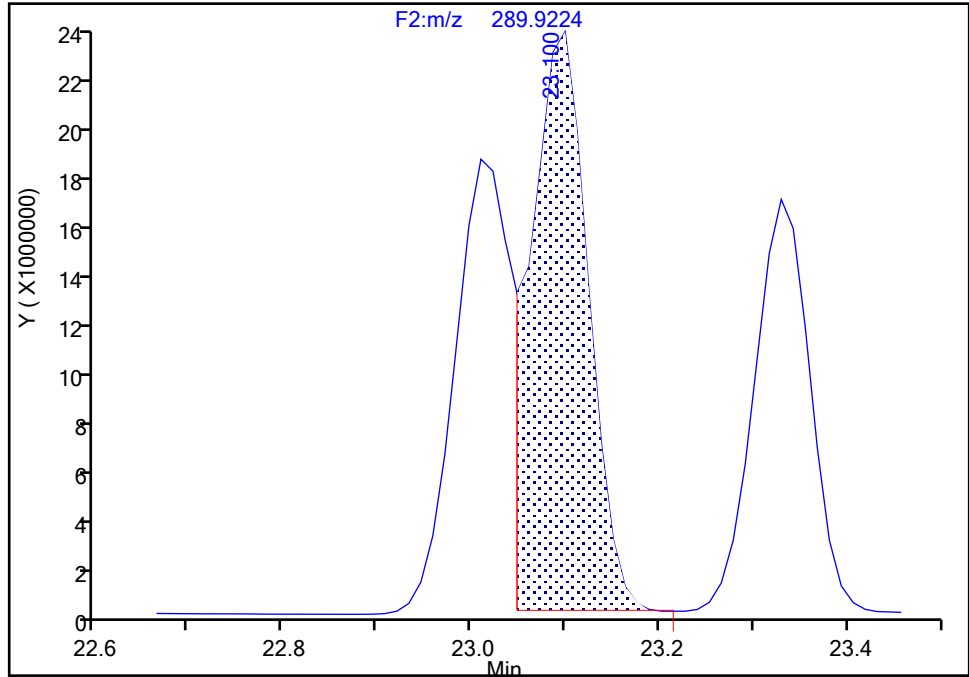
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

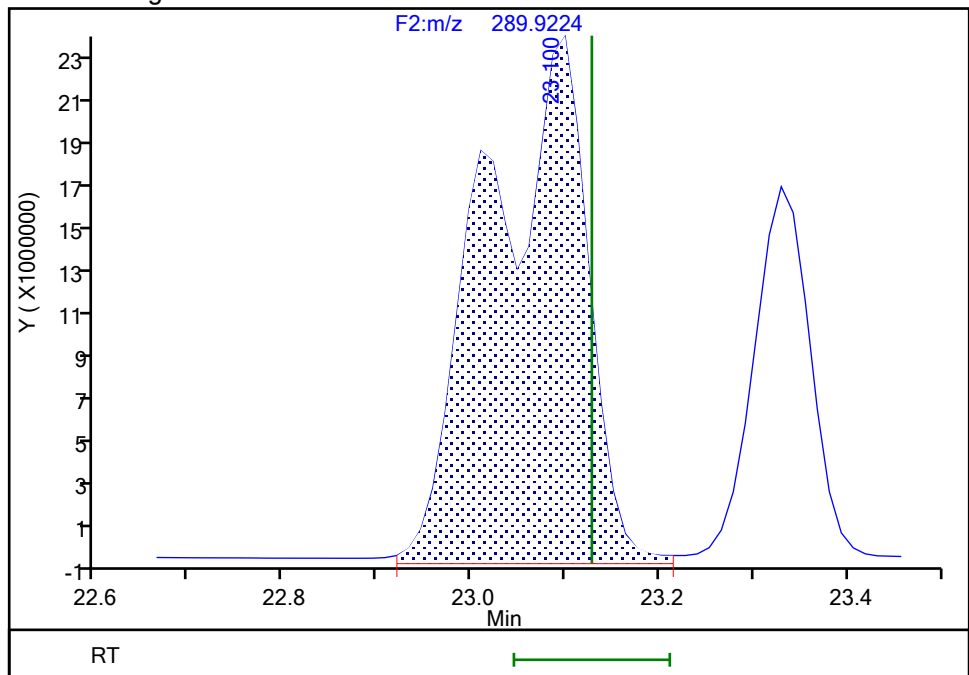
RT: 23.10
Area: 98729299
Amount: 2641.0659
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 178079818
Amount: 4329.7434
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2239 of 3050

BASFWC-McIntosh-010240

9/6/2024

4:11:20 PM

Eurofins Knoxville

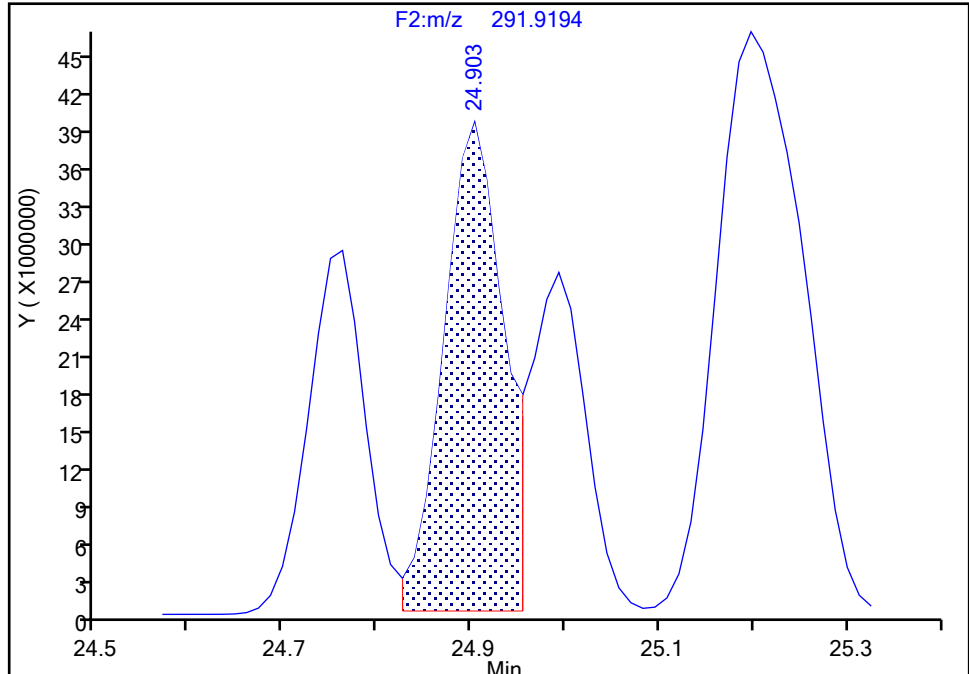
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

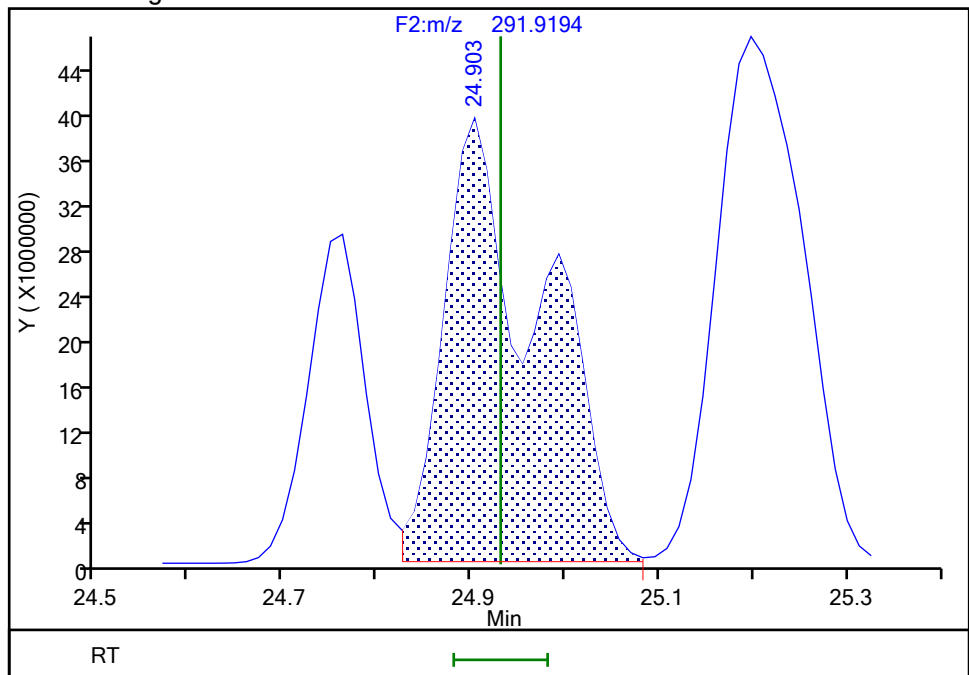
RT: 24.90
Area: 169772440
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 277935156
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

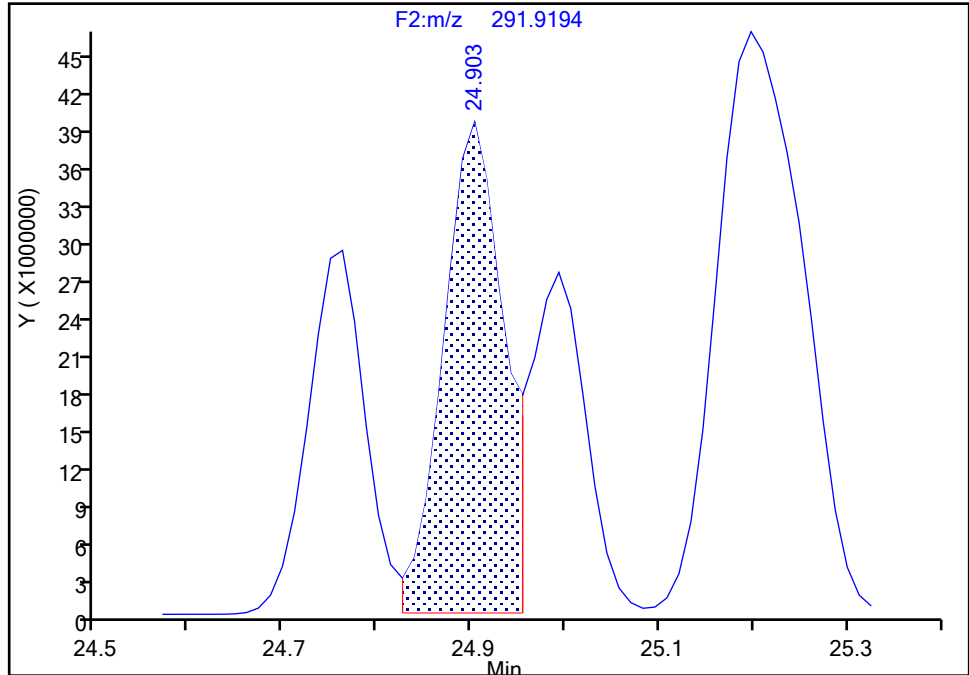
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

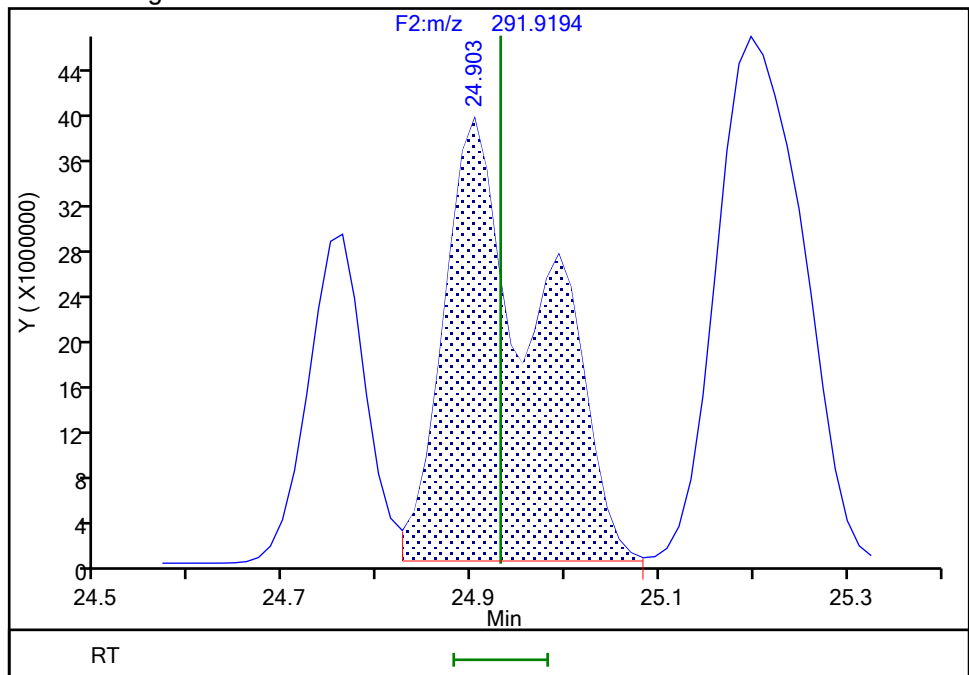
RT: 24.90
Area: 169772440
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 277935156
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2241 of 3050

BASFWHC-McIntosh-010242
9/6/2024

4:11:20 PM

Eurofins Knoxville

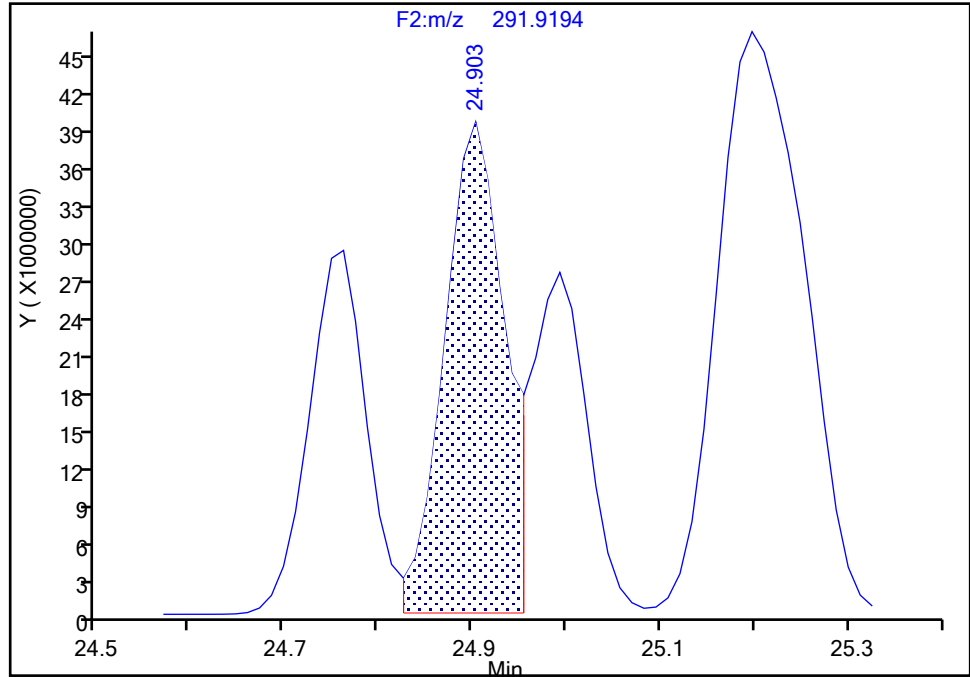
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 3

RT: 24.90
Area: 300336589
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 24.90
Area: 489361192
Amount: 4218.4880
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

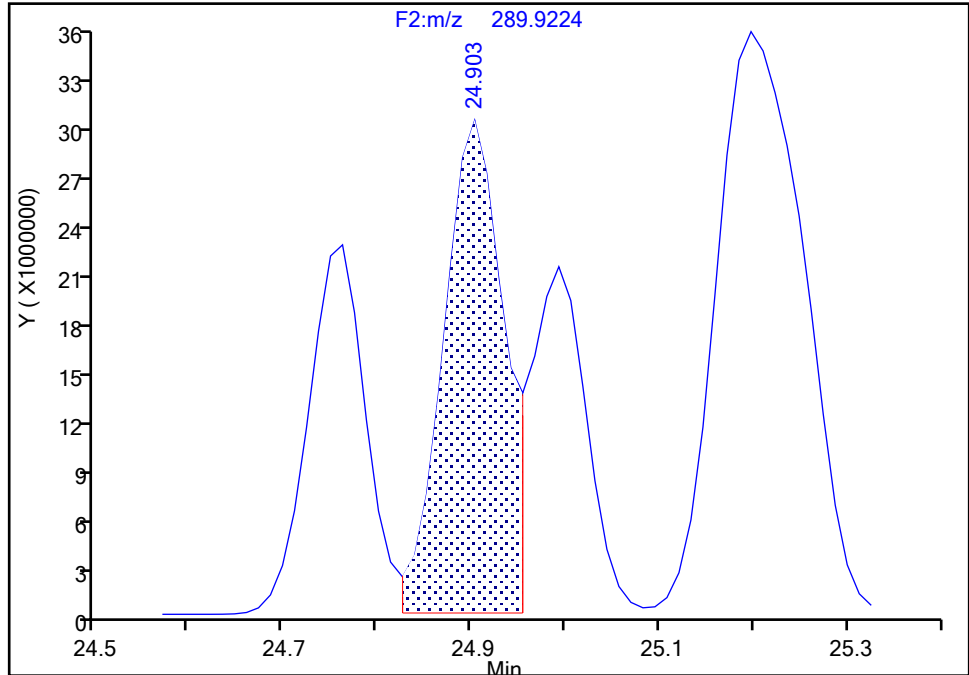
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

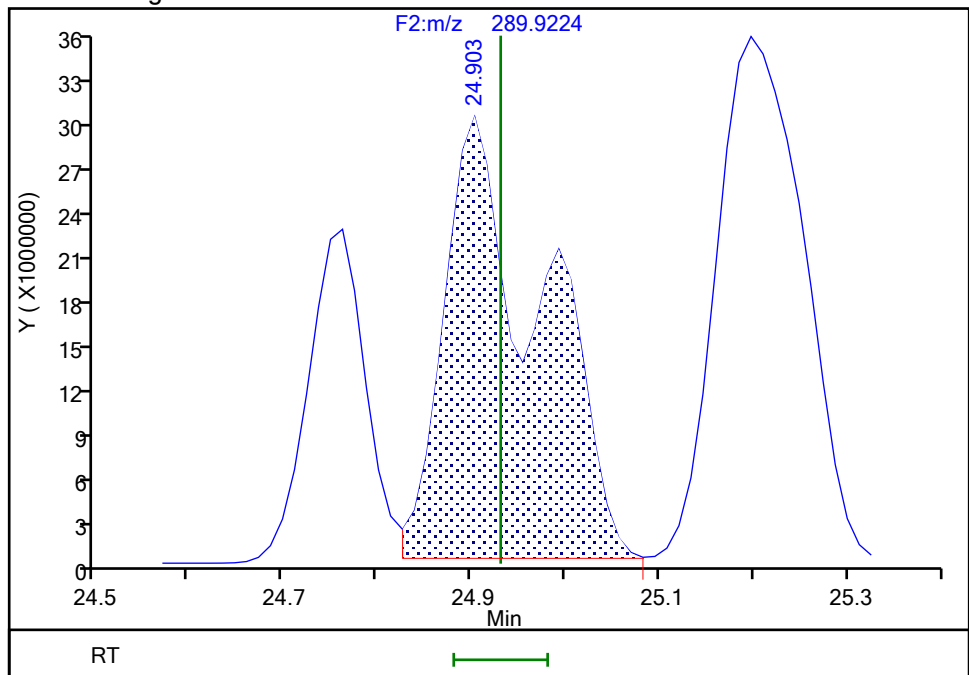
RT: 24.90
Area: 130564149
Amount: 2777.6048
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 211426036
Amount: 4218.4880
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:37 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

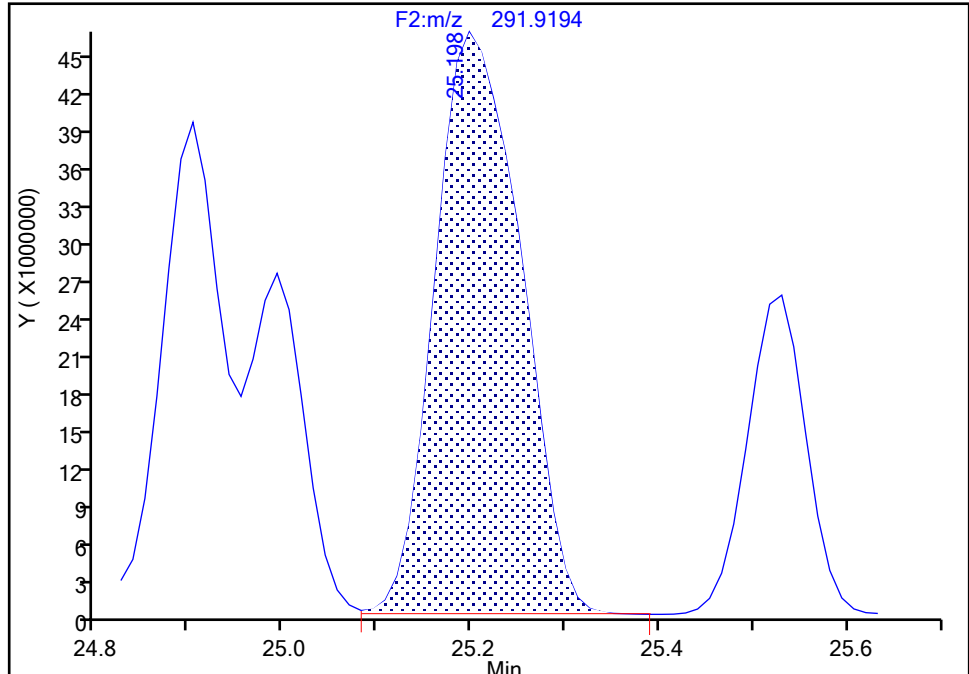
Detector F2(21.81 :35.54)

PCB-49/69, CAS: STL01805

Signal: 2

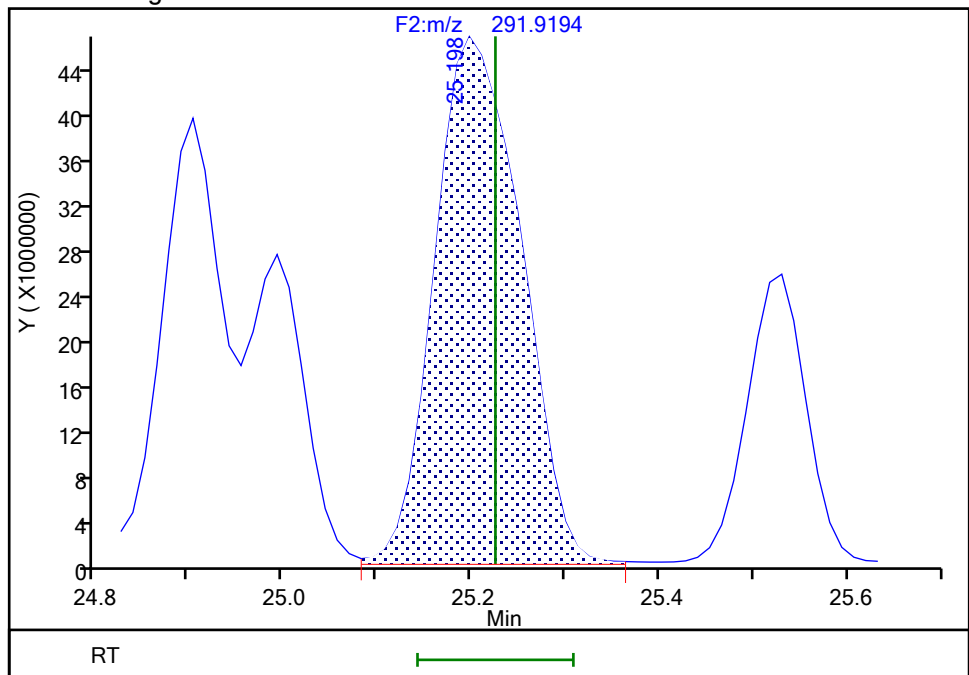
RT: 25.20
Area: 292362083
Amount: 4313.5357
Amount Units: pg/ul

Processing Integration Results



RT: 25.20
Area: 293974420
Amount: 4324.5612
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

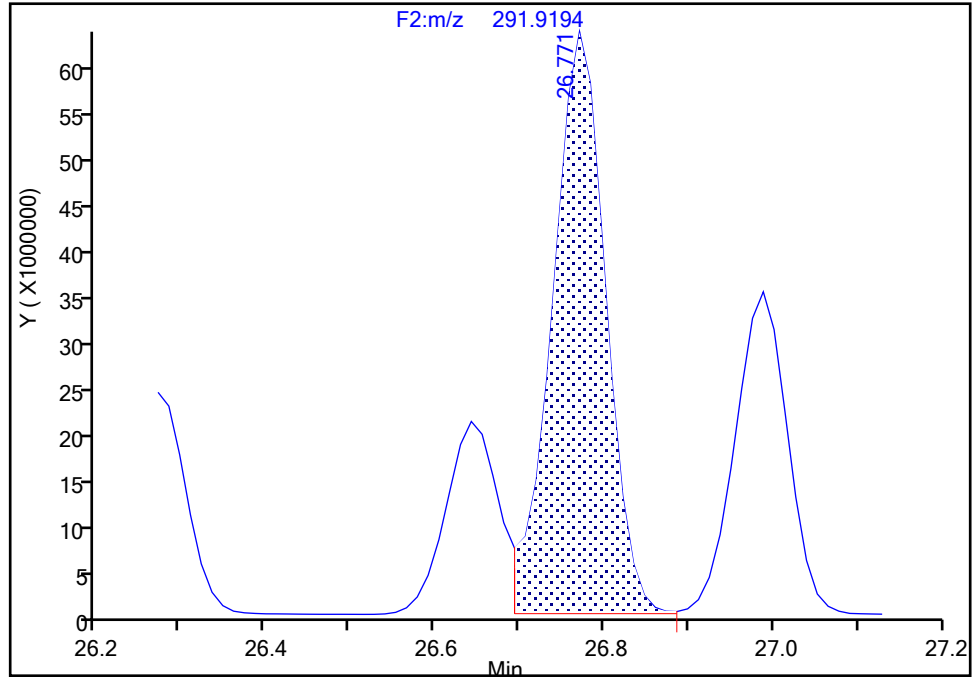
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

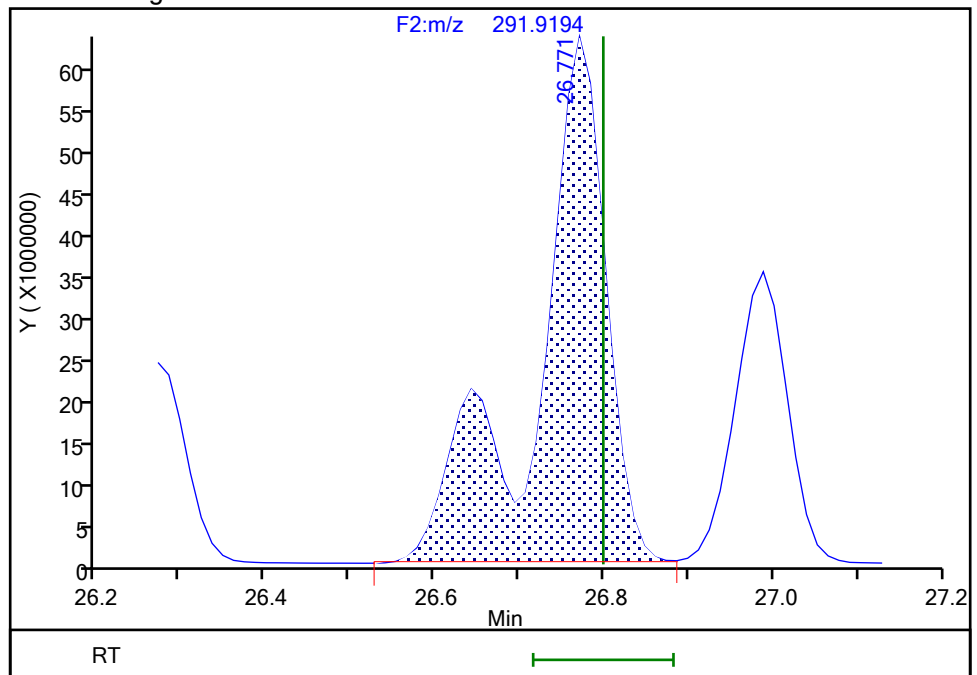
RT: 26.77
Area: 276411598
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 364045686
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

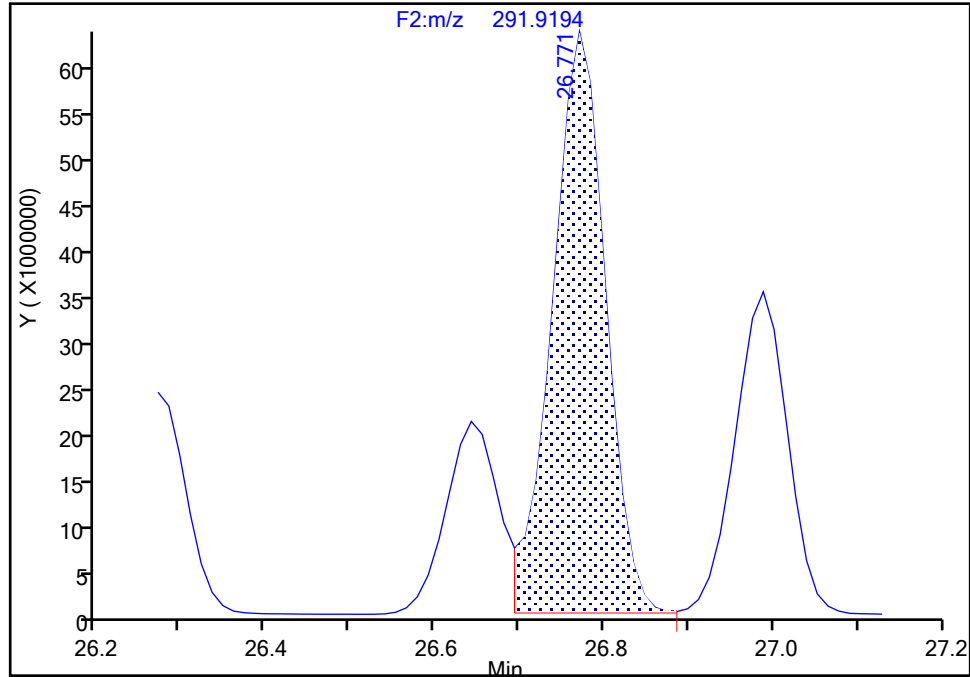
F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

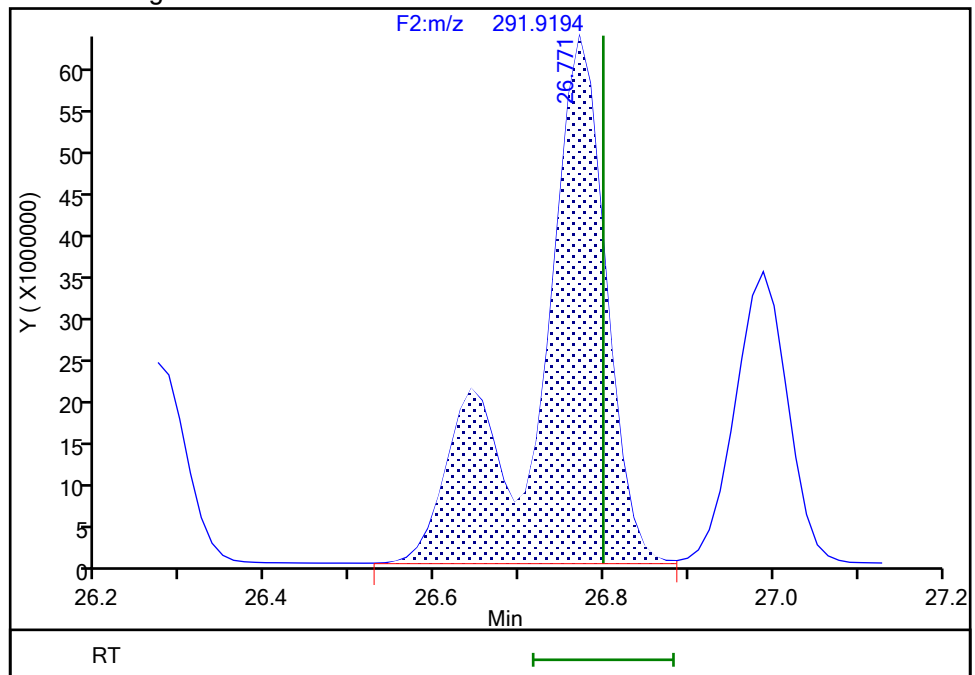
RT: 26.77
Area: 276411598
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 364045686
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2246 of 3050

BASFWC-McIntosh-010247

9/6/2024

4:11:20 PM

Eurofins Knoxville

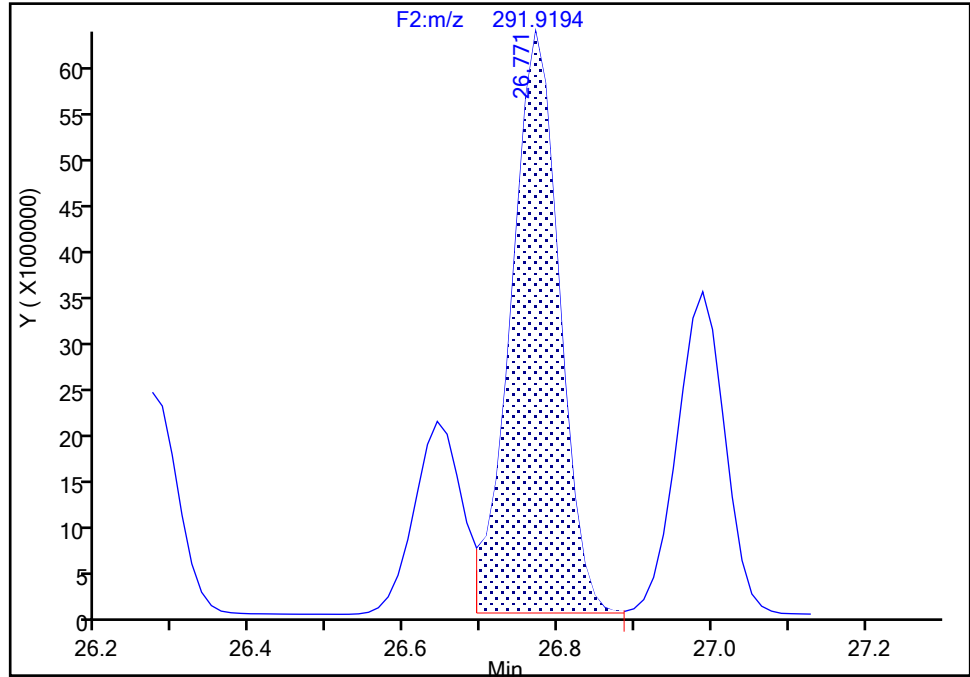
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 3

RT: 26.77
Area: 487694602
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 26.77
Area: 641280083
Amount: 6444.9845
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

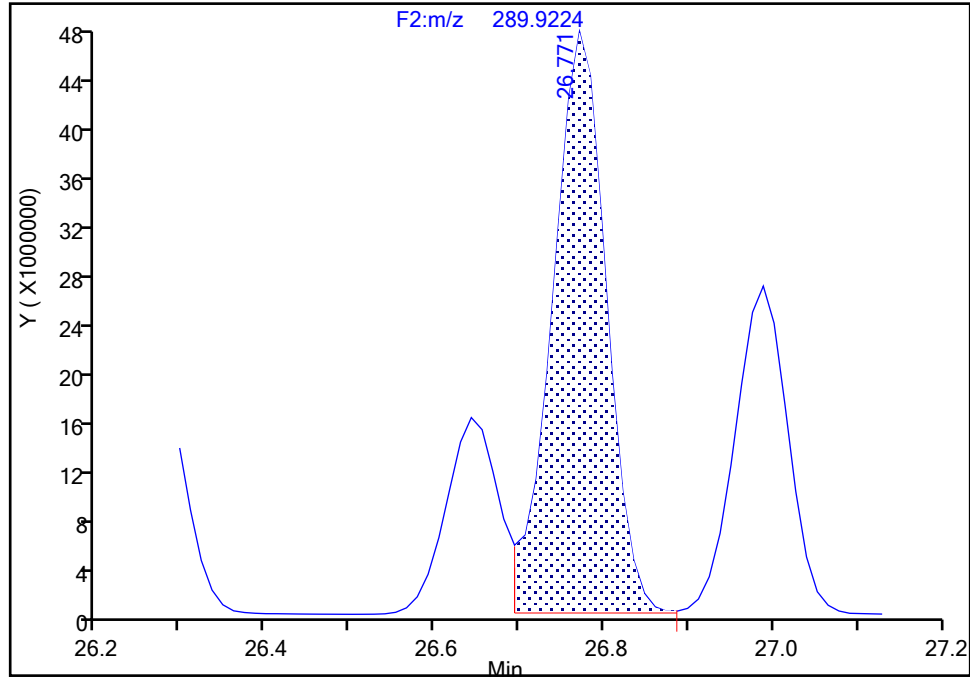
F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

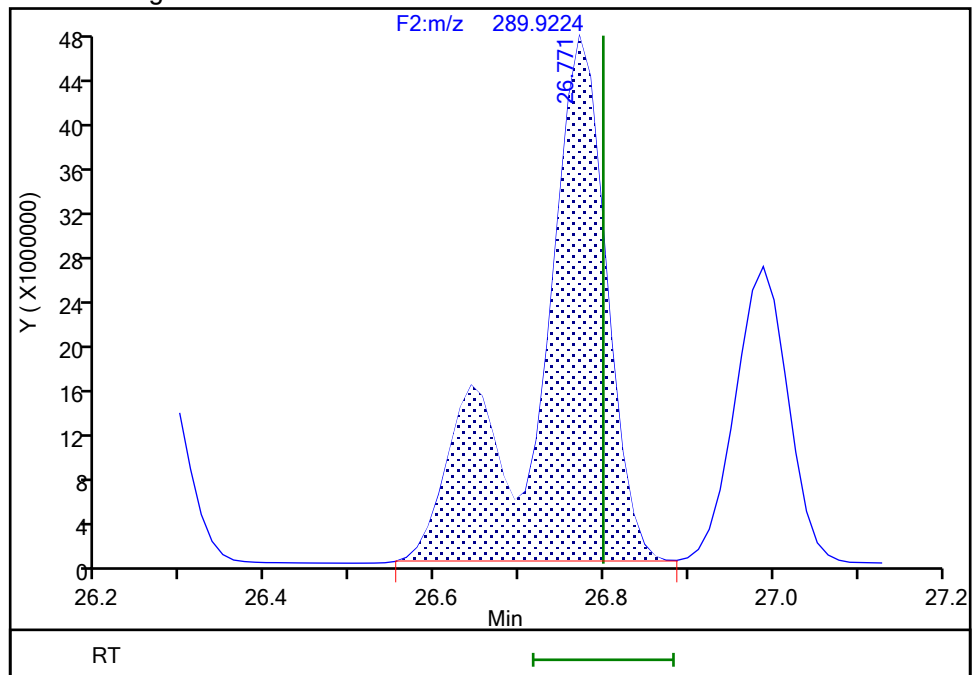
RT: 26.77
Area: 211283004
Amount: 5120.9933
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 277234397
Amount: 6444.9845
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 2248 of 3050

BASFWHC-McIntosh-010249

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

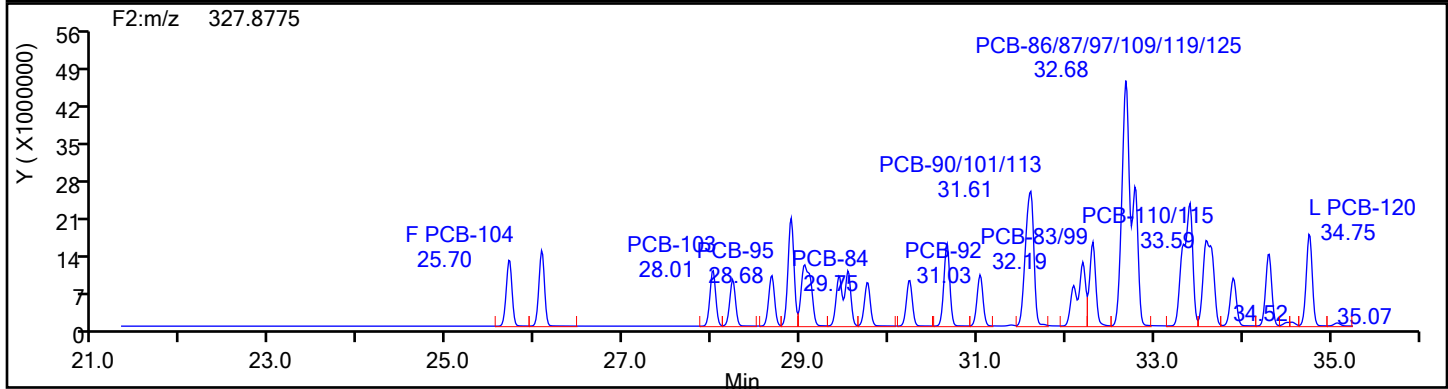
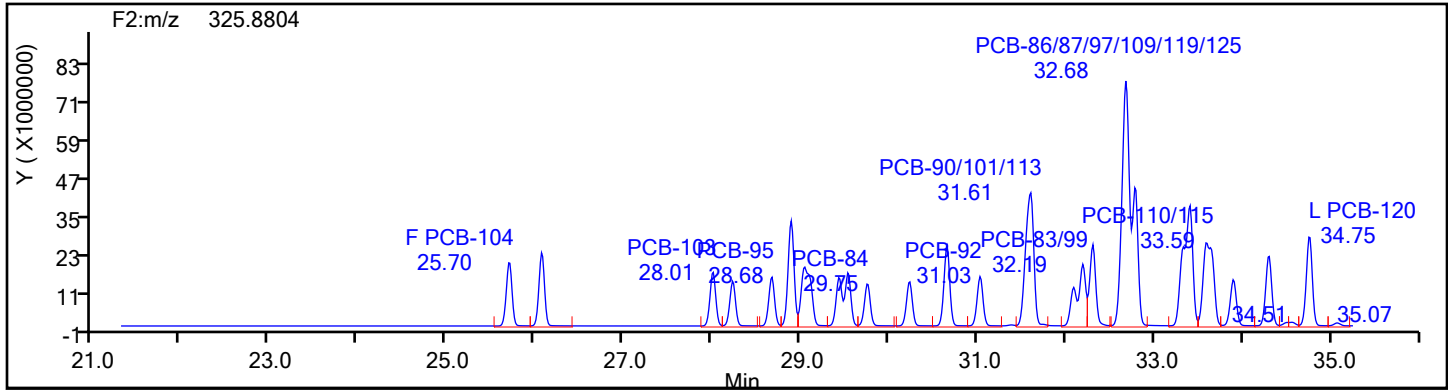
Worklist#: 87130

Sample Line#: 6

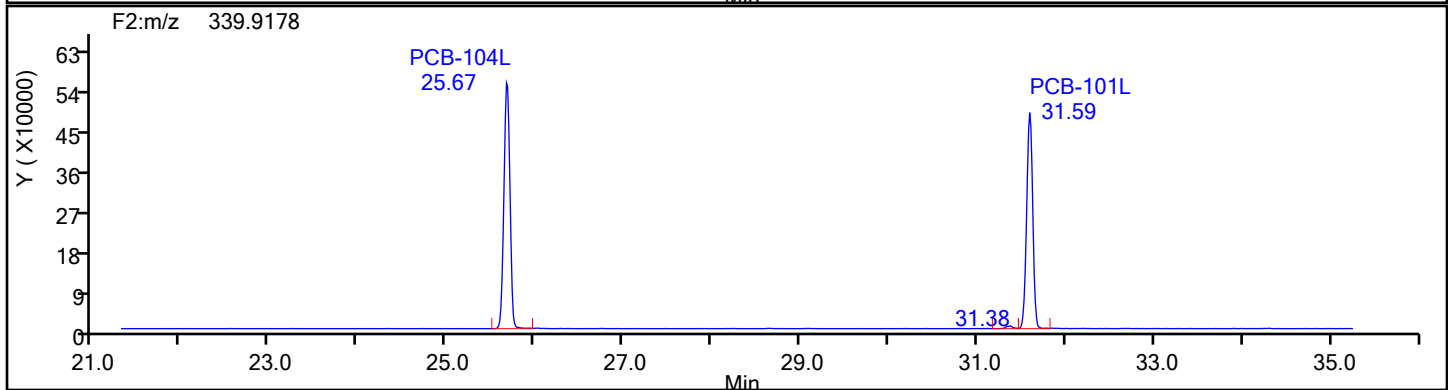
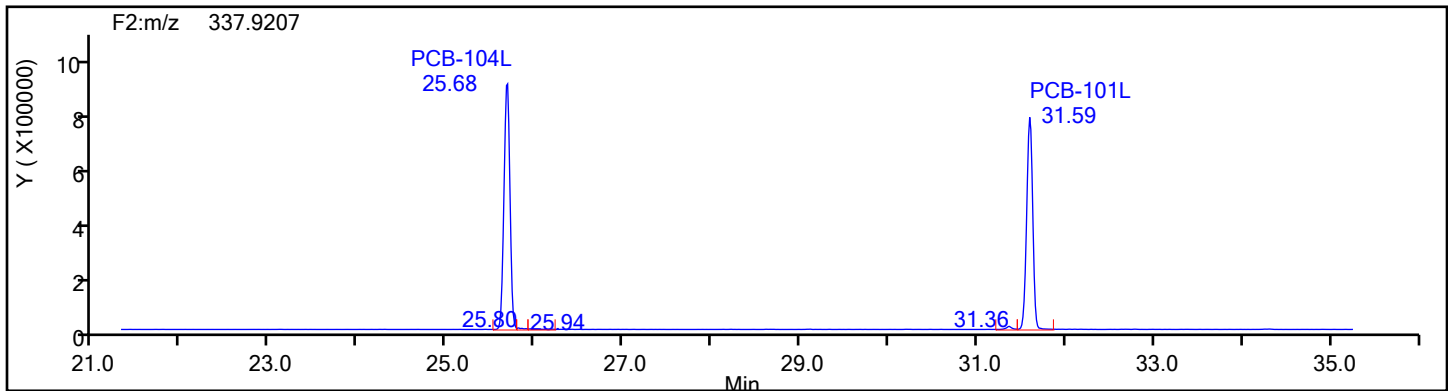
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

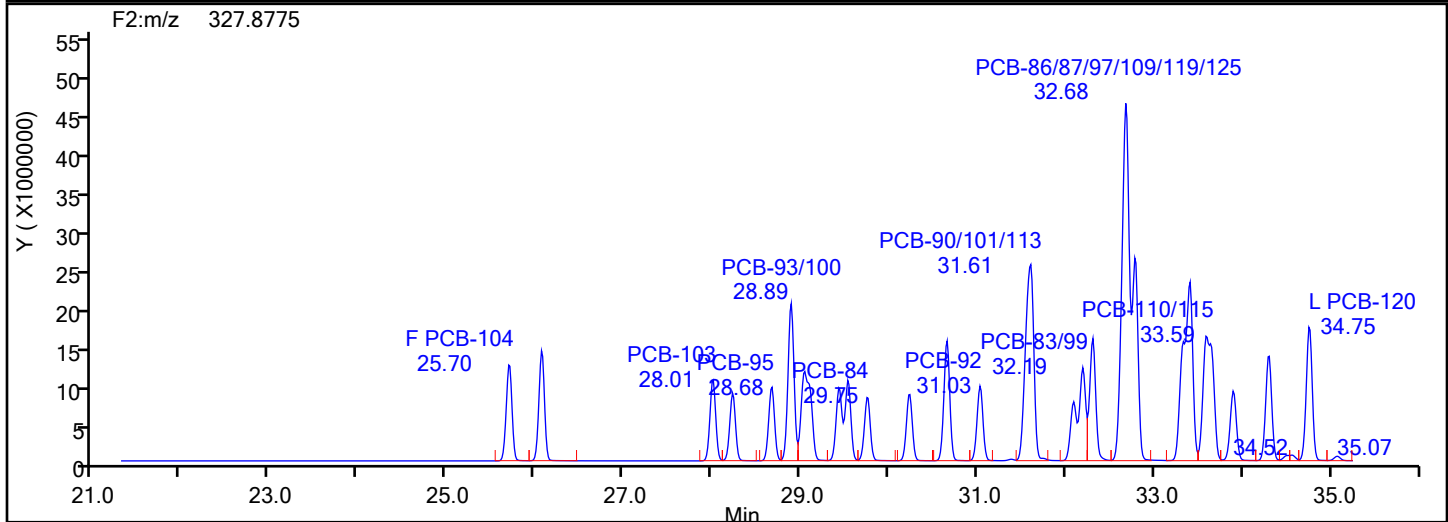
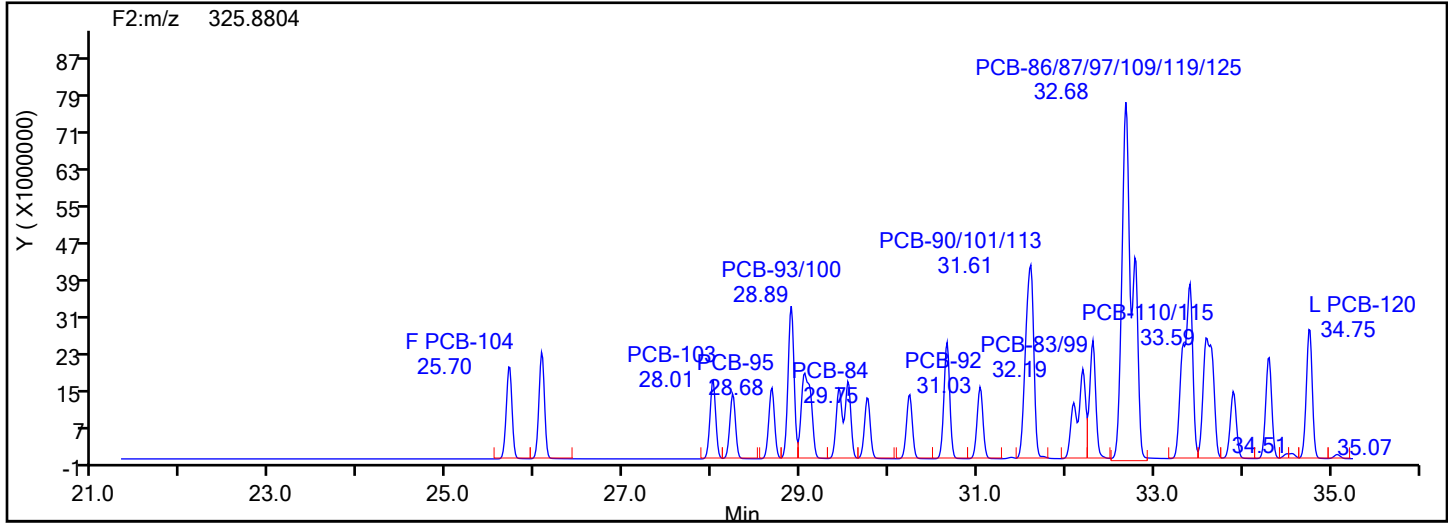


PePCB F2 Standards

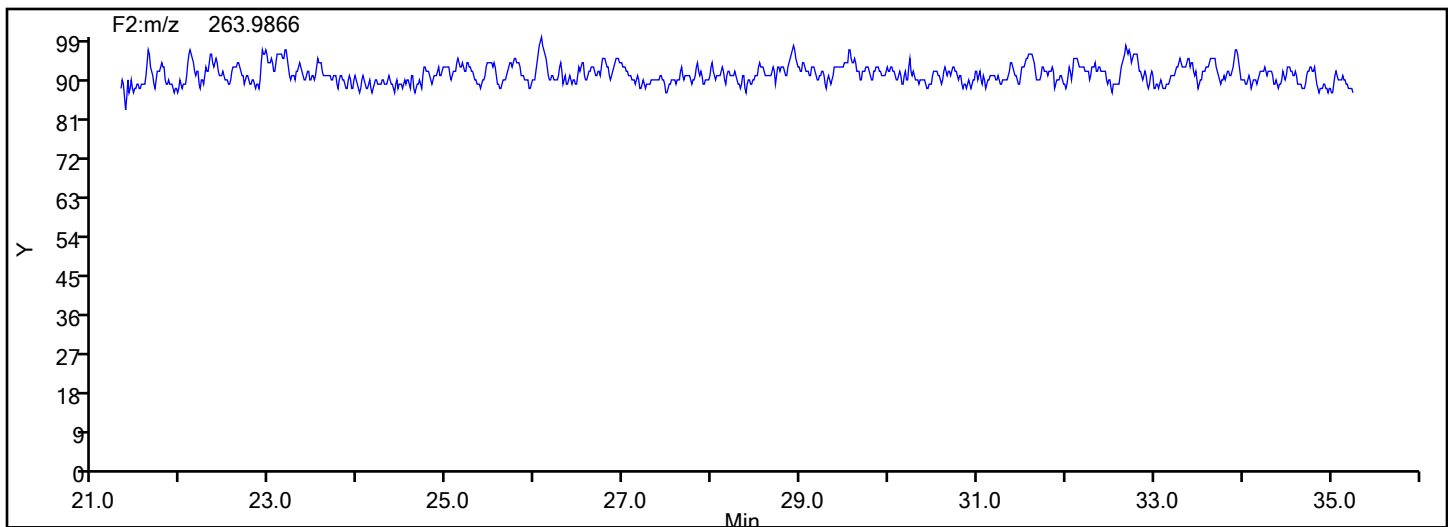


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

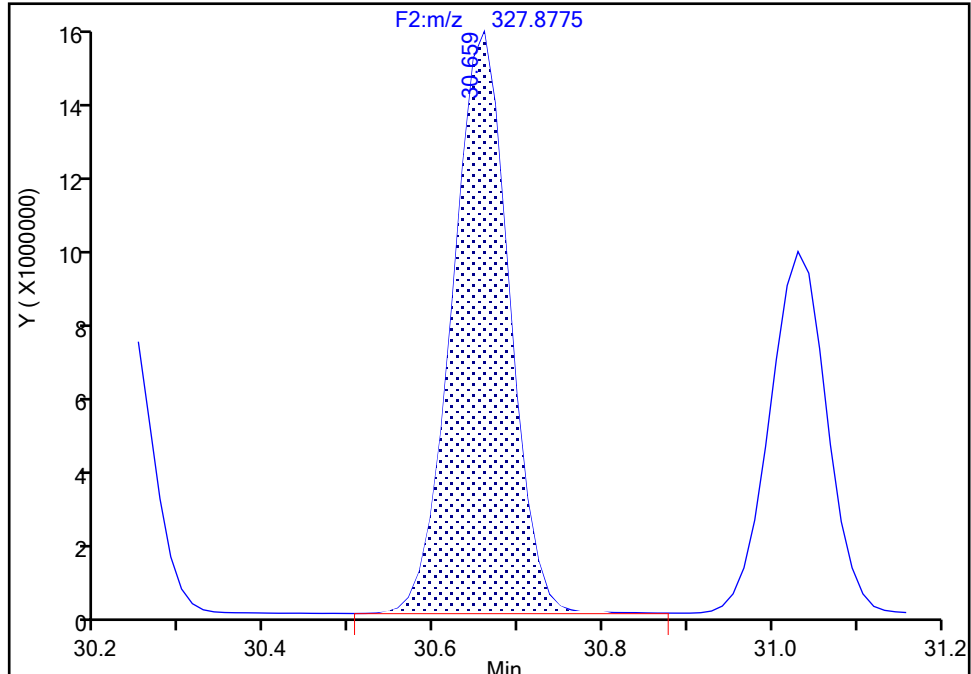
Detector F2(21.81 :35.54)

PCB-121, CAS: 56558-18-0

Signal: 2

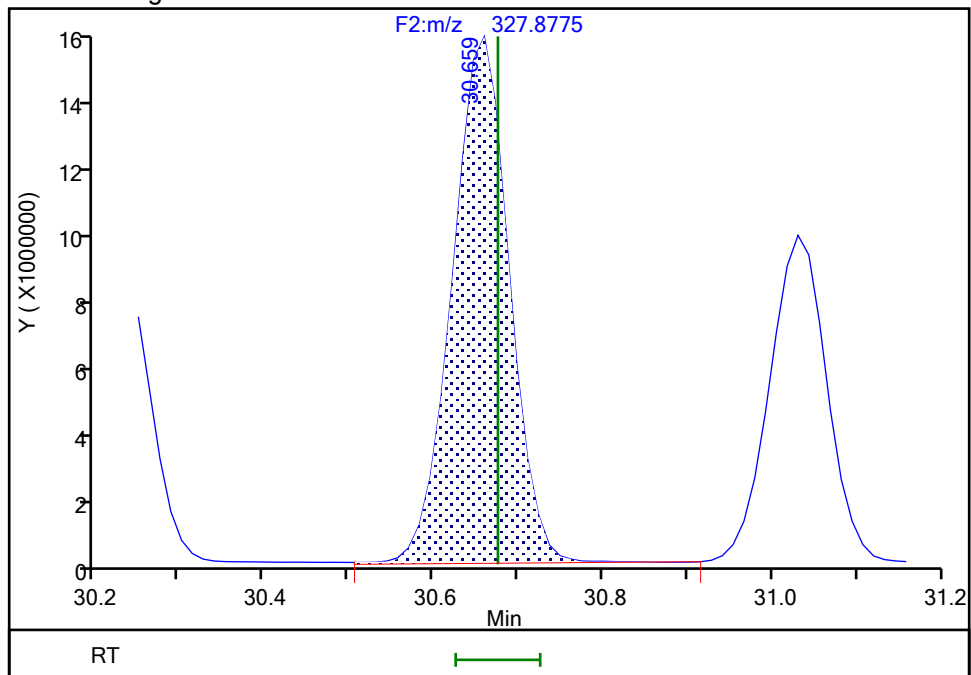
RT: 30.66
Area: 72472187
Amount: 2097.3363
Amount Units: pg/ul

Processing Integration Results



RT: 30.66
Area: 72252656
Amount: 2095.3331
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

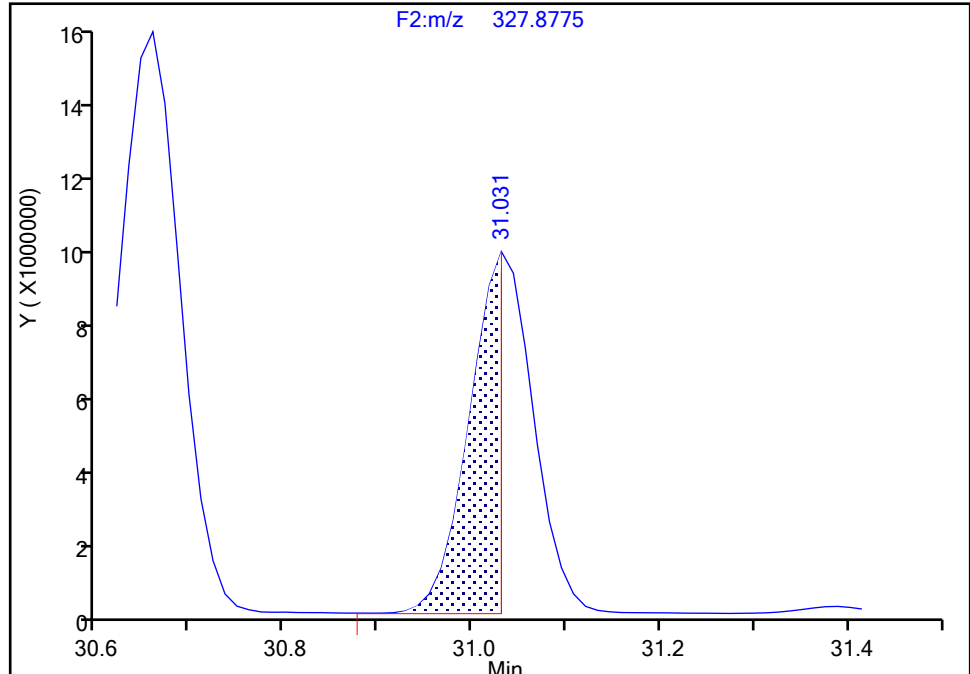
Detector F2(21.81 :35.54)

PCB-92, CAS: 52663-61-3

Signal: 2

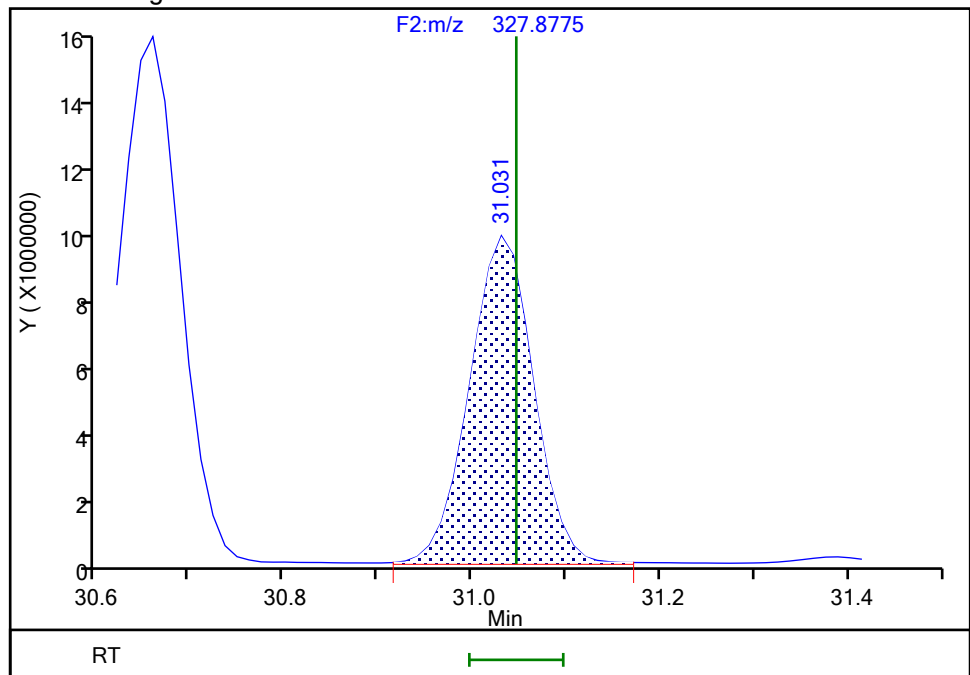
RT: 31.03
Area: 22578720
Amount: 1670.2216
Amount Units: pg/ul

Processing Integration Results



RT: 31.03
Area: 45192573
Amount: 1996.7618
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

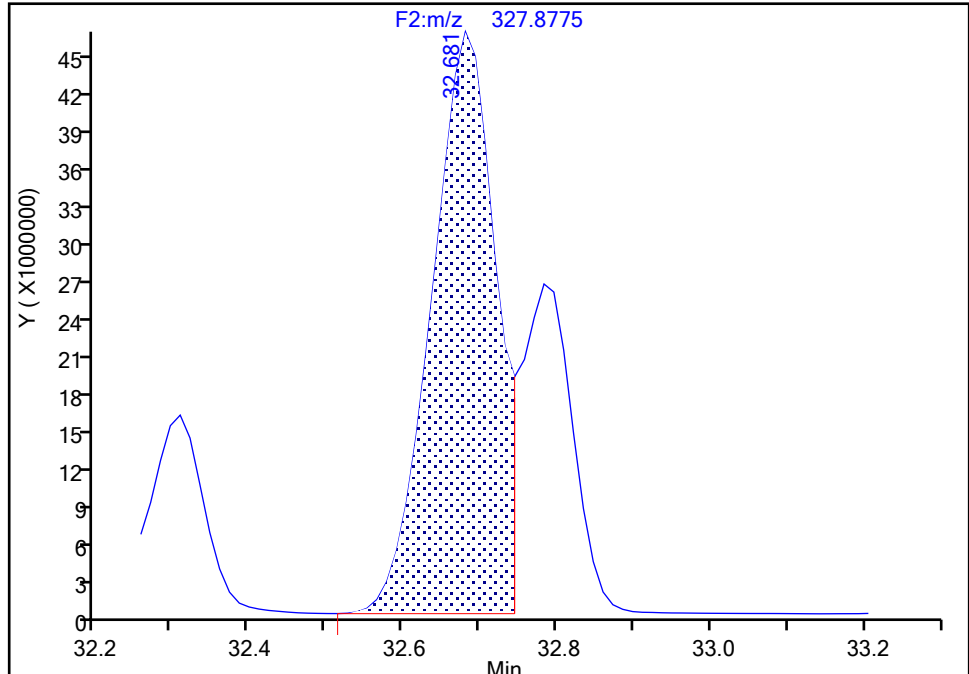
F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

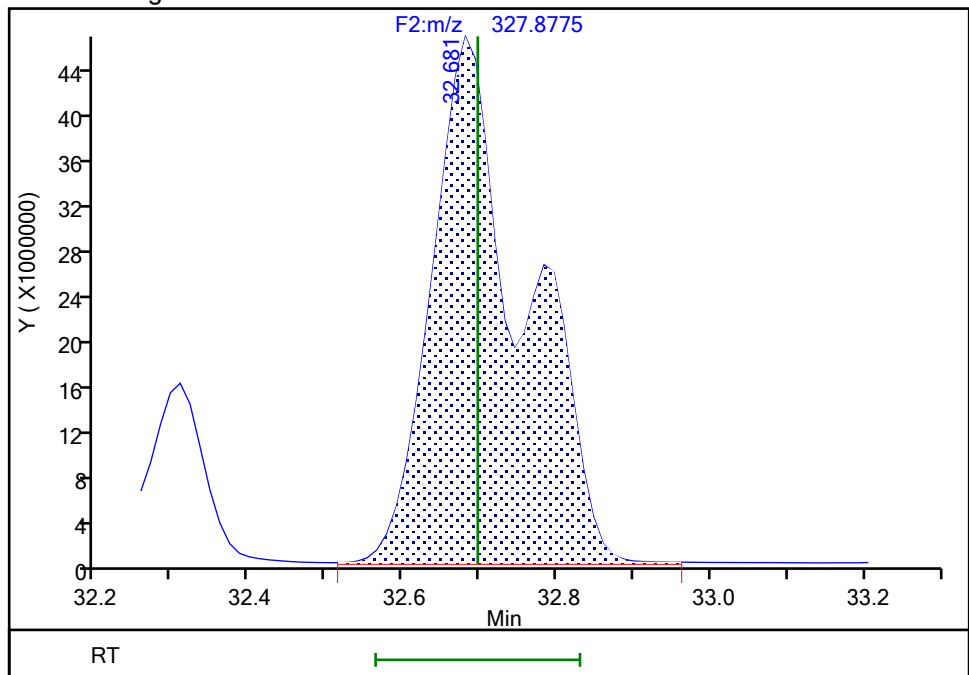
RT: 32.68
Area: 265602402
Amount: 10348
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 384843597
Amount: 14115
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

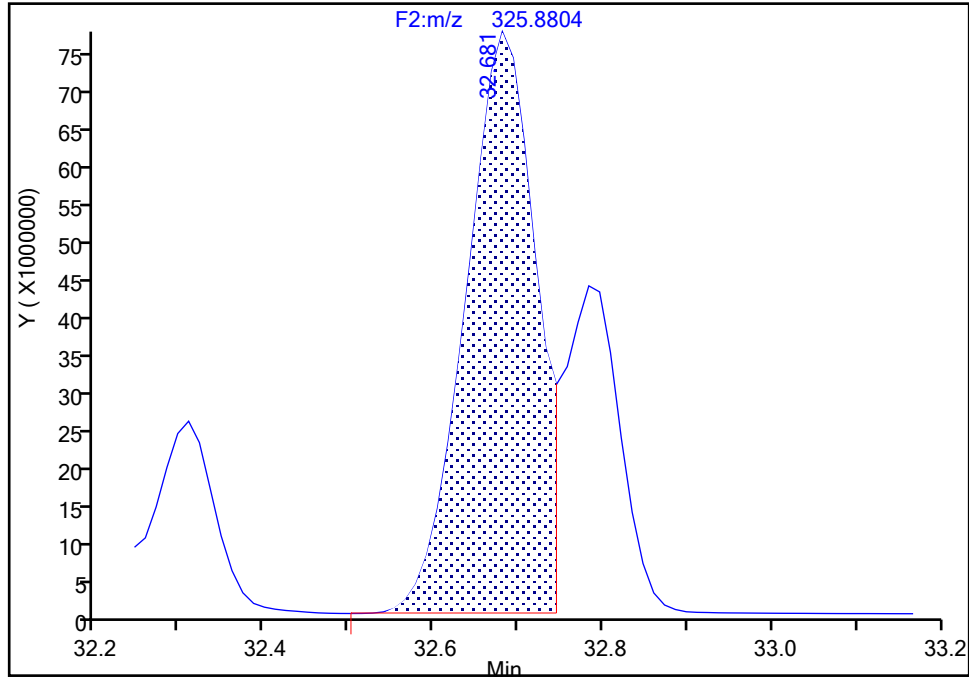
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

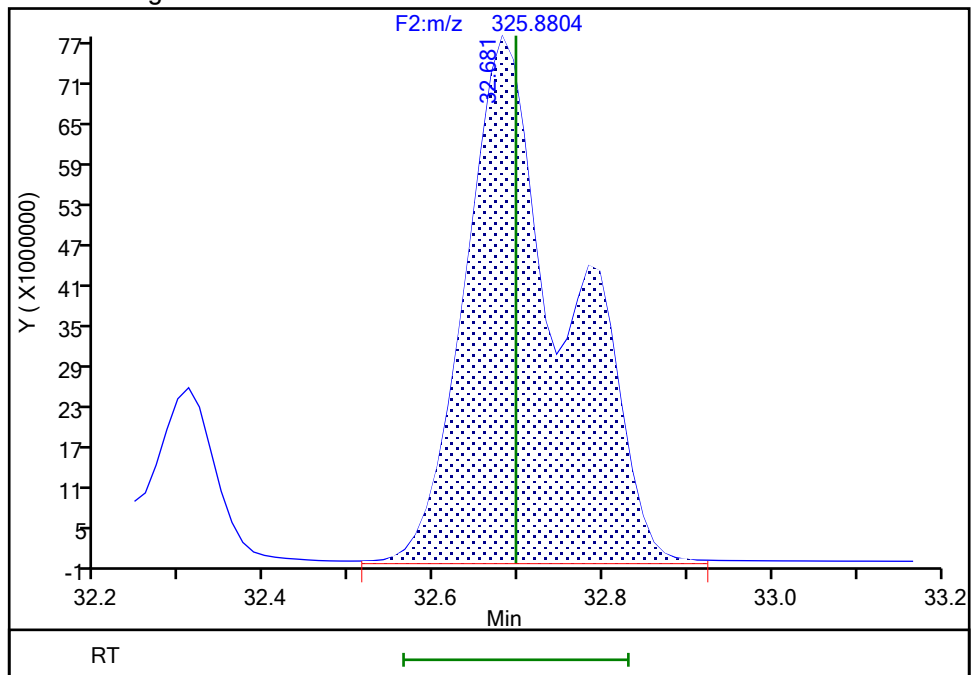
RT: 32.68
Area: 444165024
Amount: 10348
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 646388537
Amount: 14115
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2254 of 3050

BASFWHC-McIntosh-010255

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

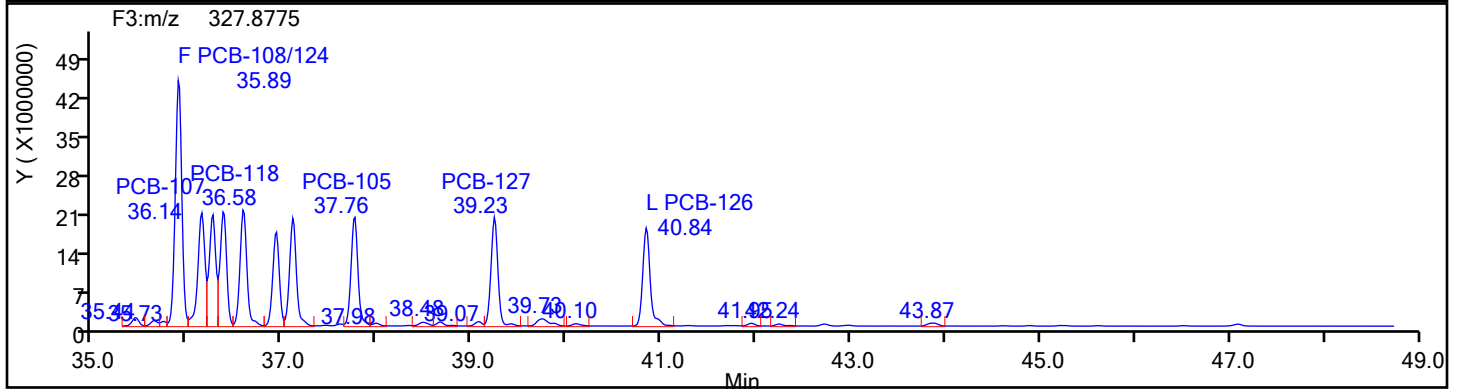
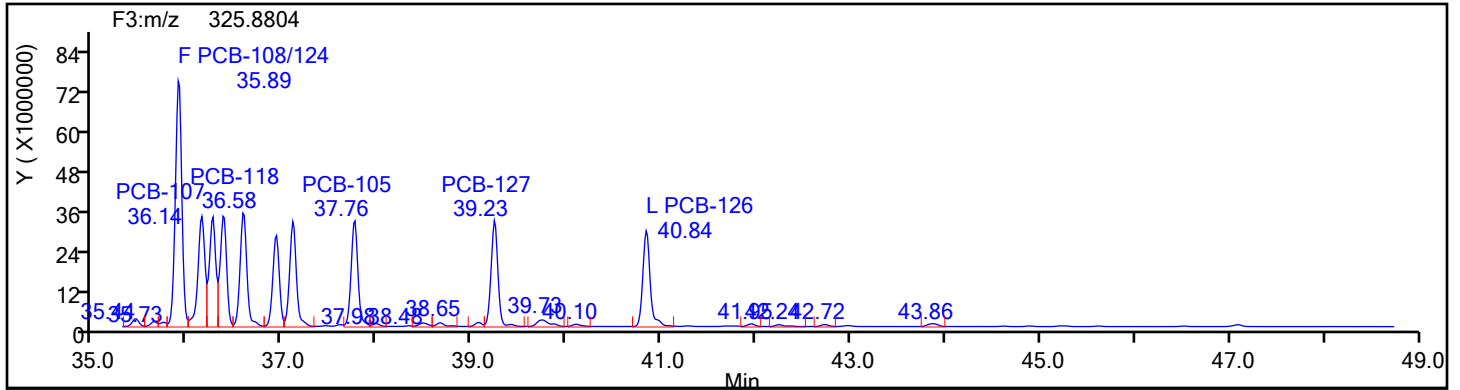
Worklist#: 87130

Sample Line#: 6

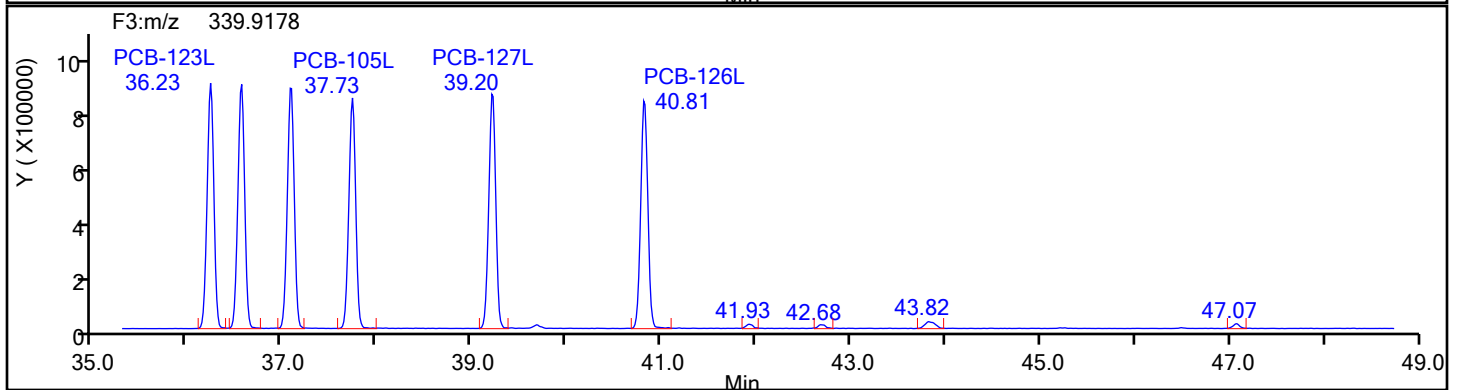
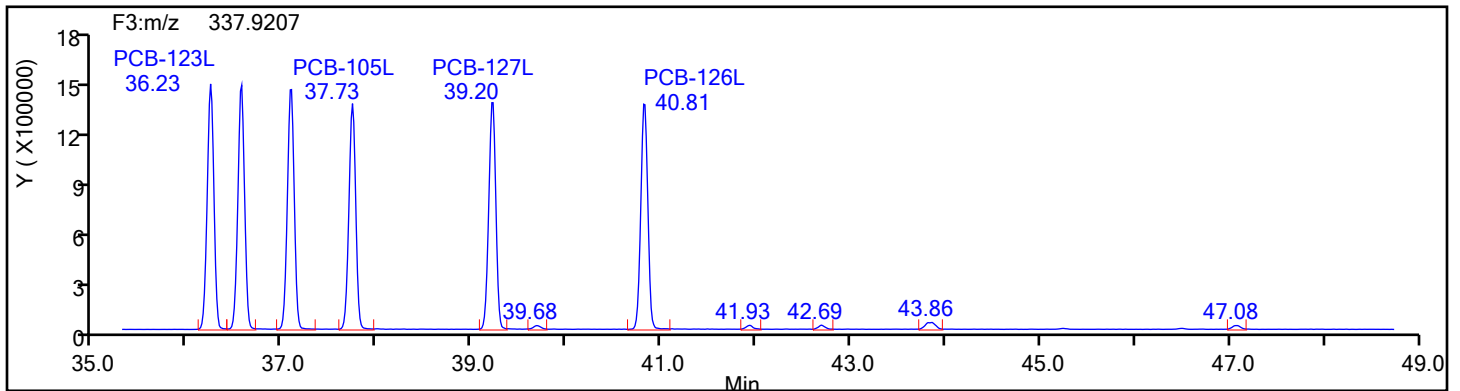
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

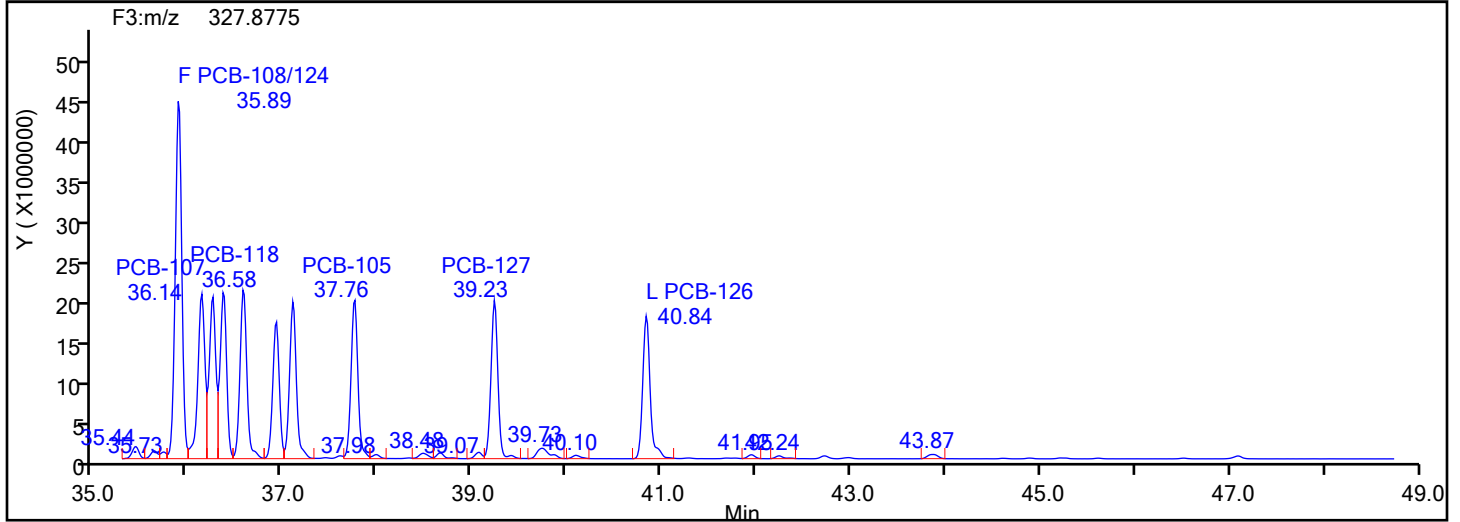
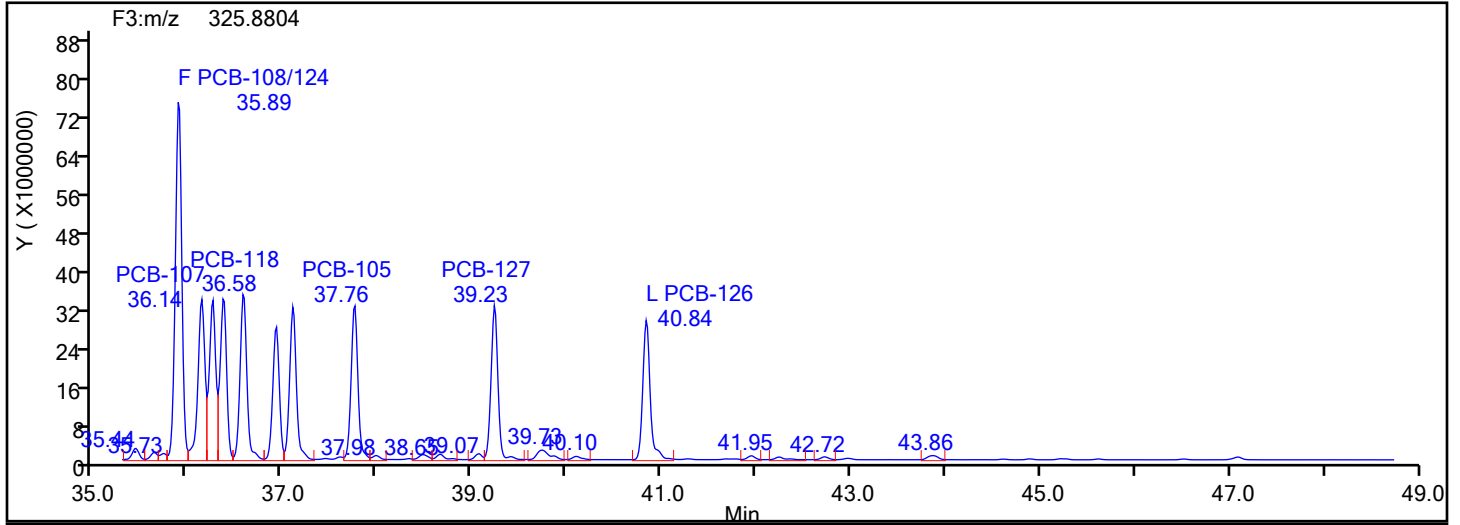
Worklist#: 87130

Sample Line#: 6

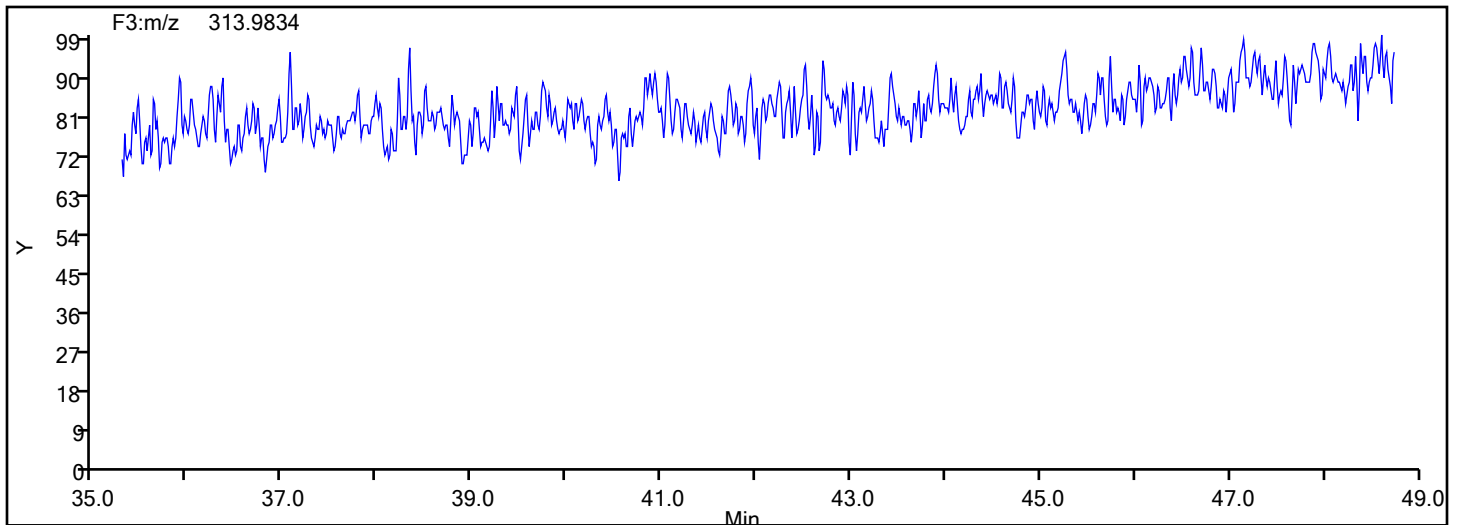
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

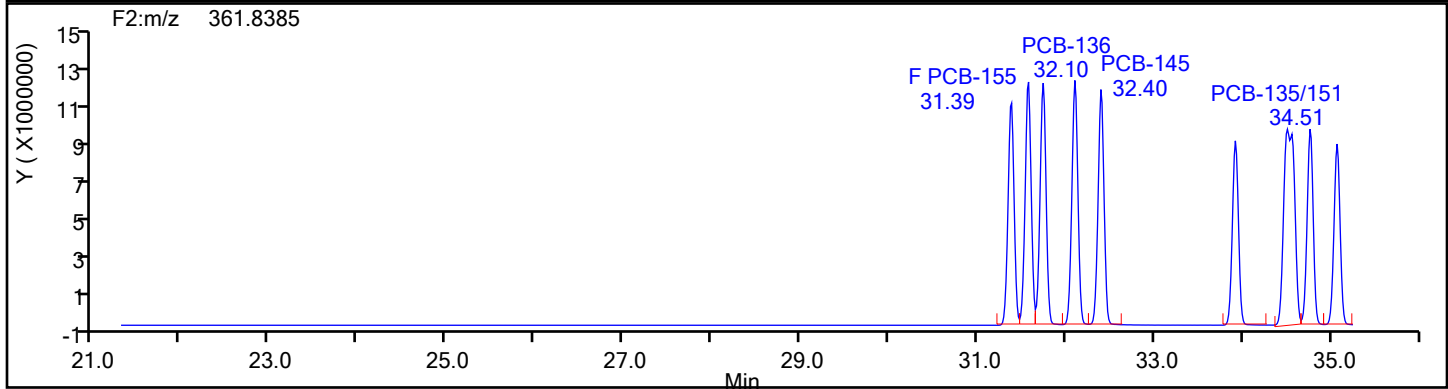
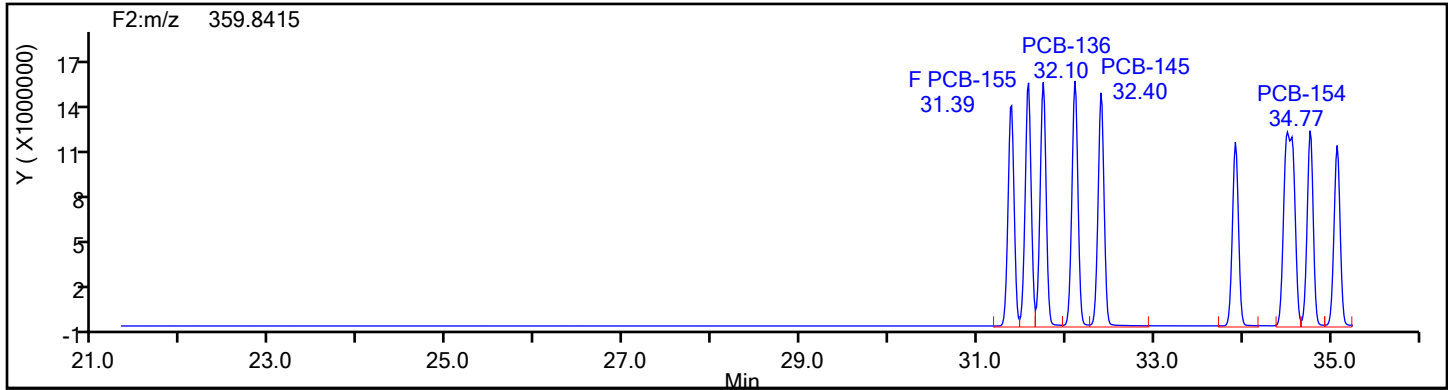
Worklist#: 87130

Sample Line#: 6

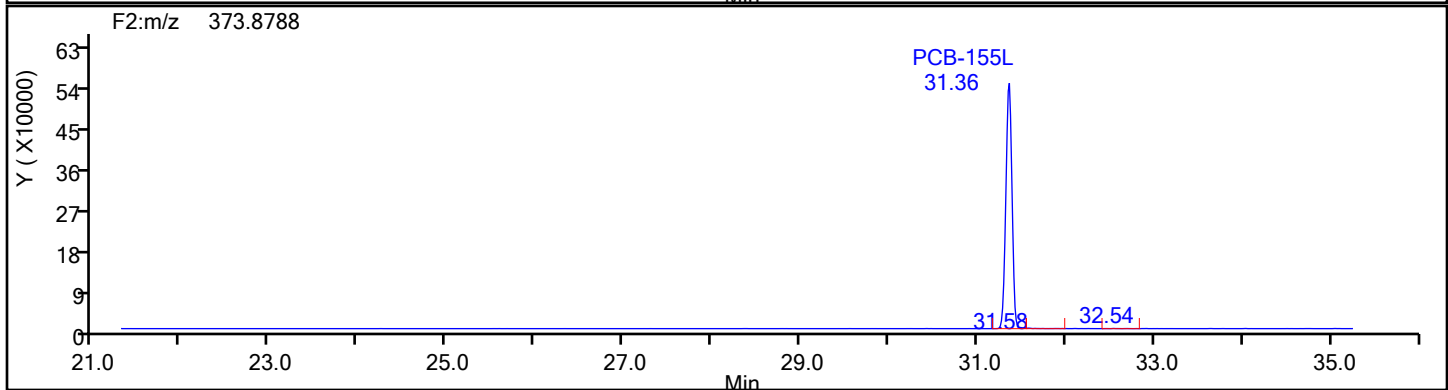
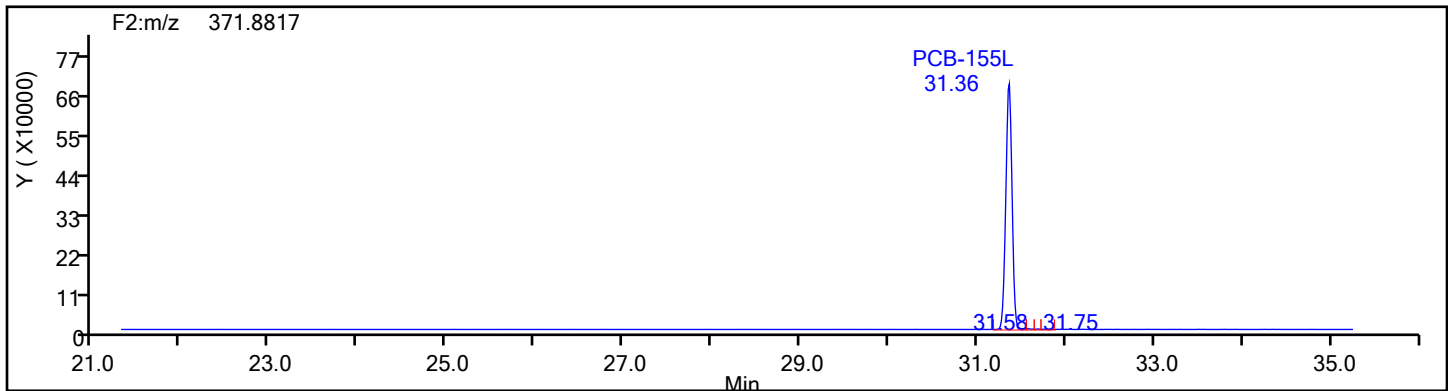
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

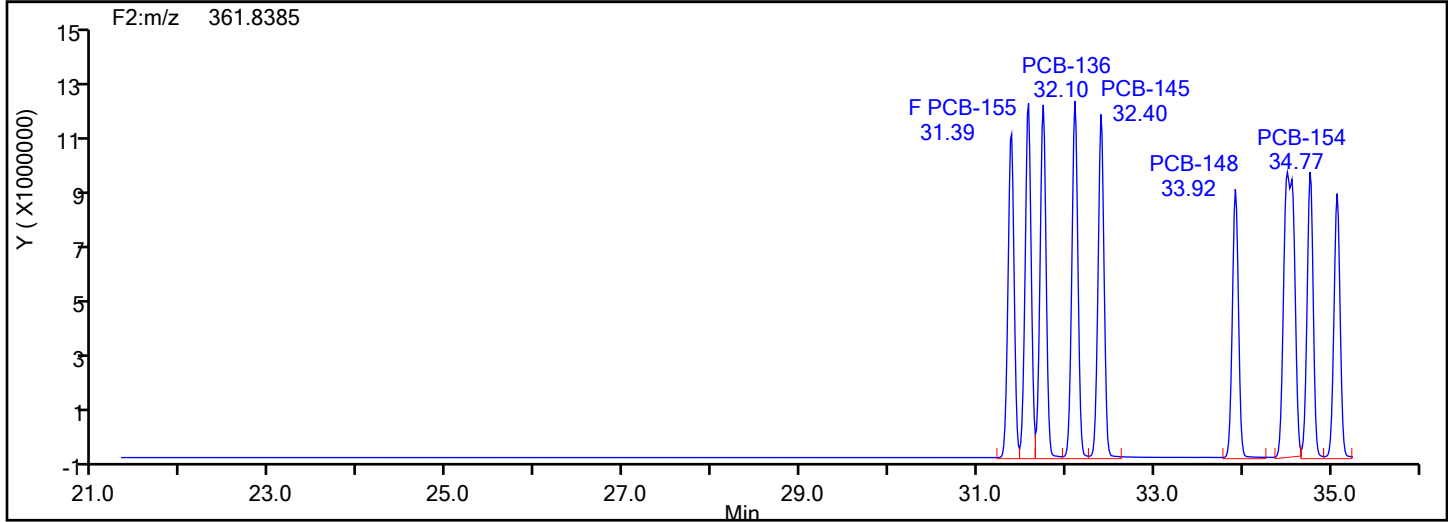
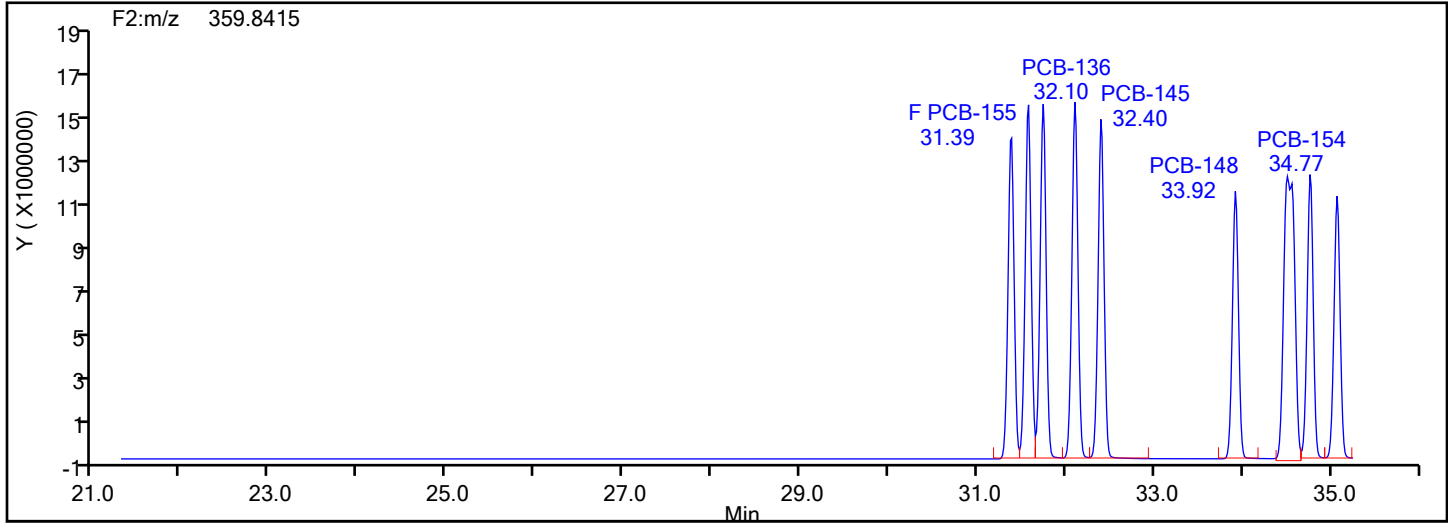


HxPCB F2 Standards

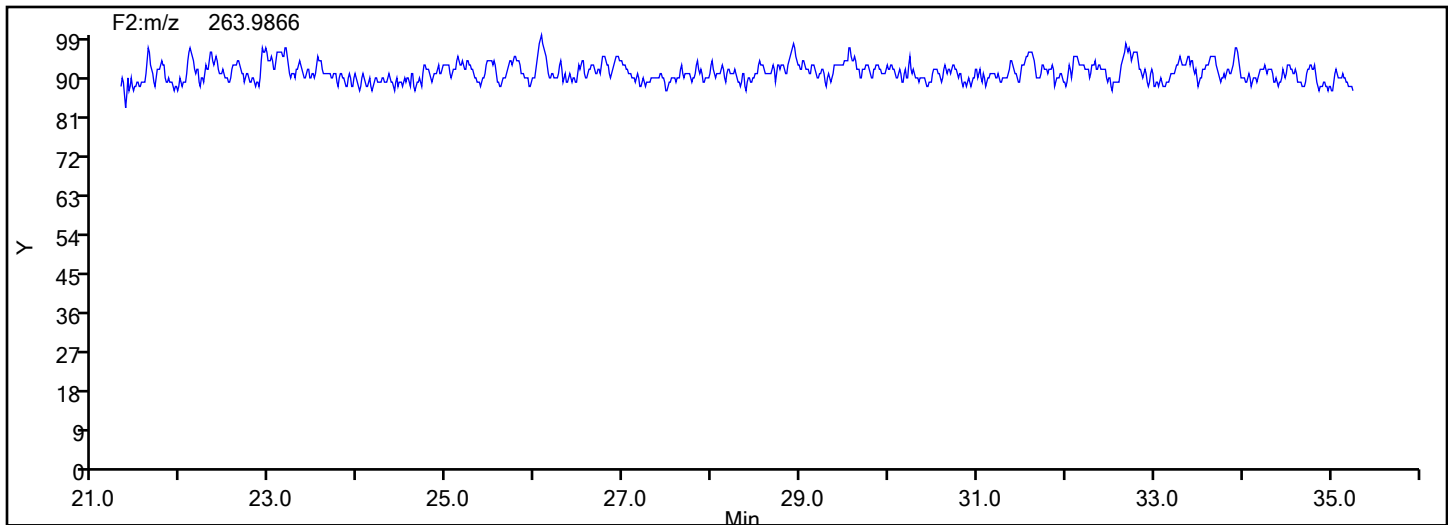


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

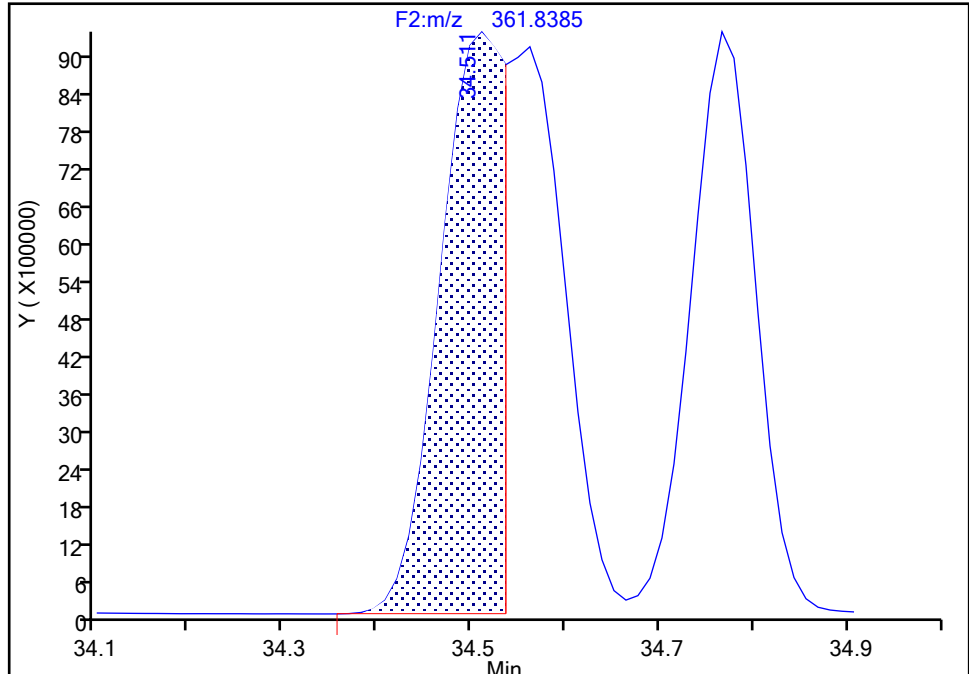
Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

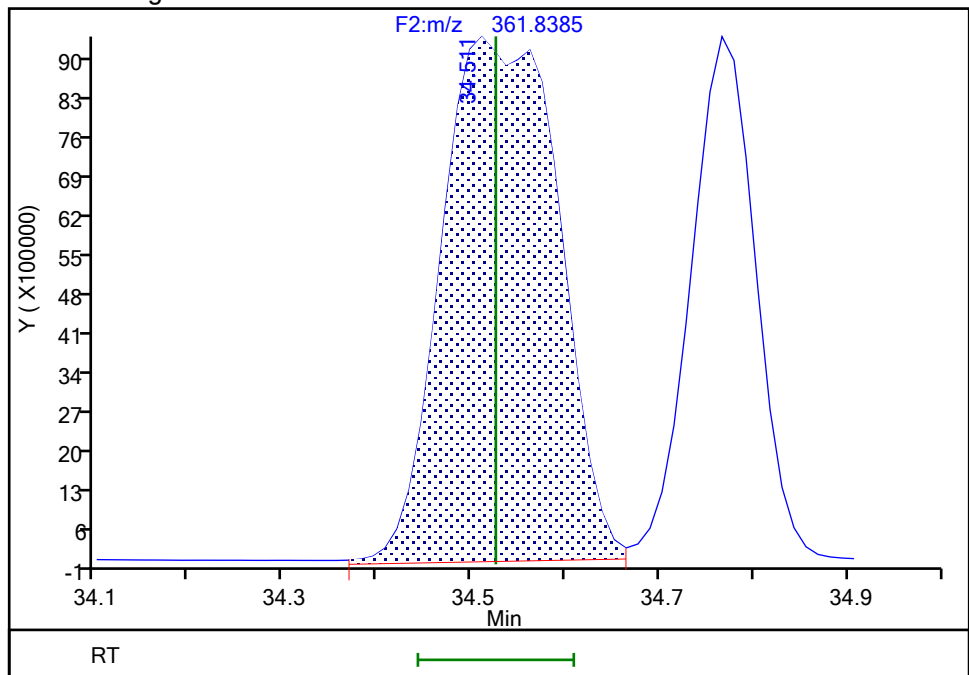
RT: 34.51
Area: 42930870
Amount: 2423.1663
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 81482346
Amount: 4229.7884
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

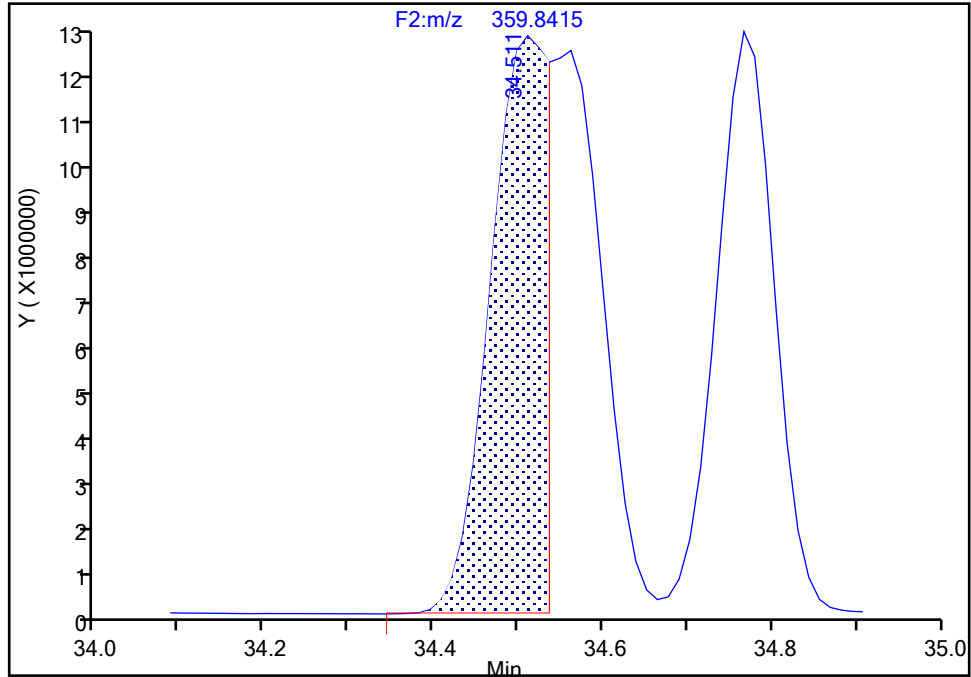
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

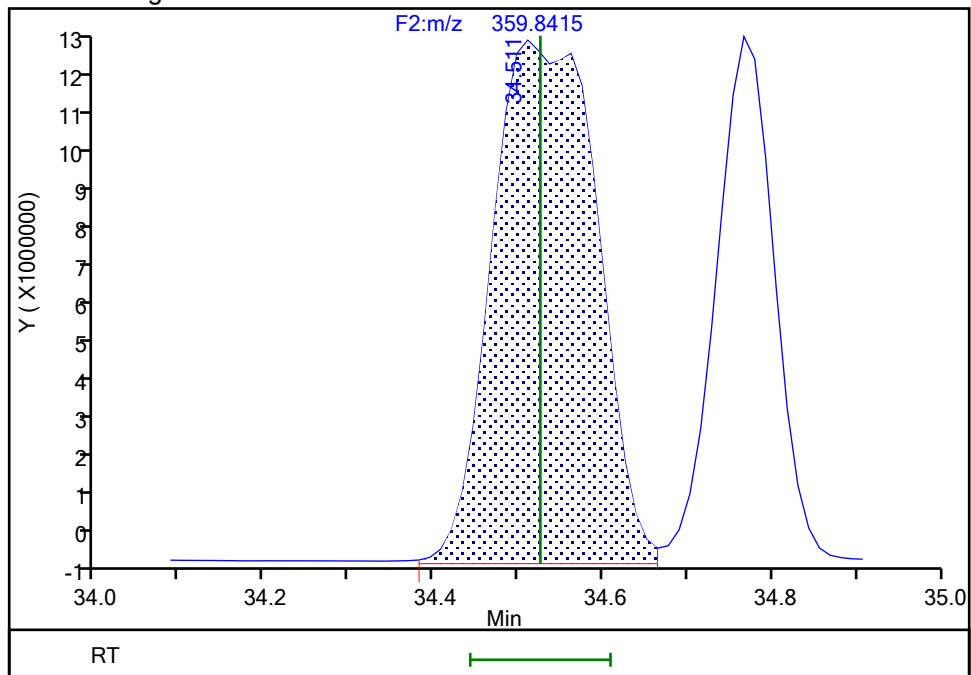
RT: 34.51
Area: 54337182
Amount: 2423.1663
Amount Units: pg/ul

Processing Integration Results



RT: 34.51
Area: 103820478
Amount: 4229.7884
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2260 of 3050

BASFWHC-McIntosh-010261

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

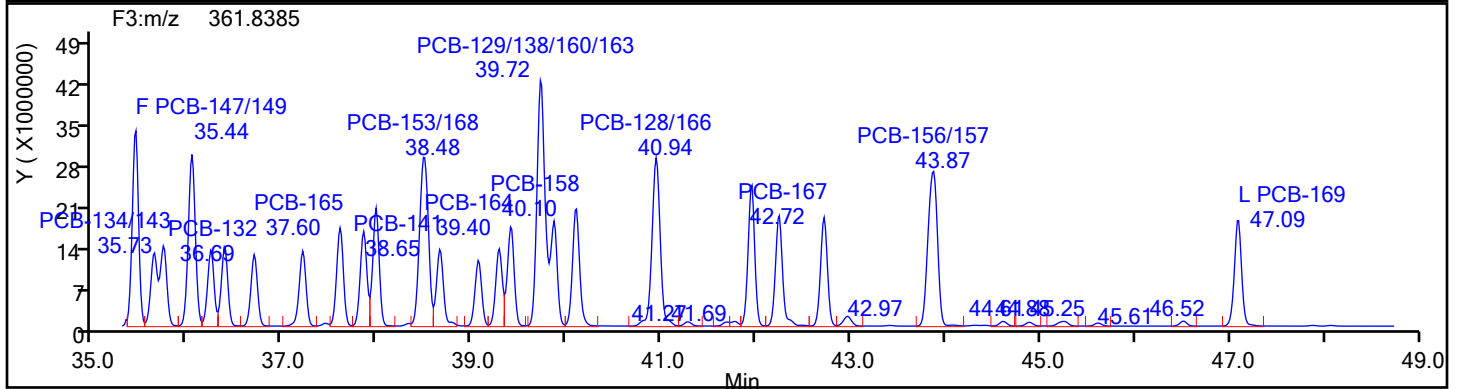
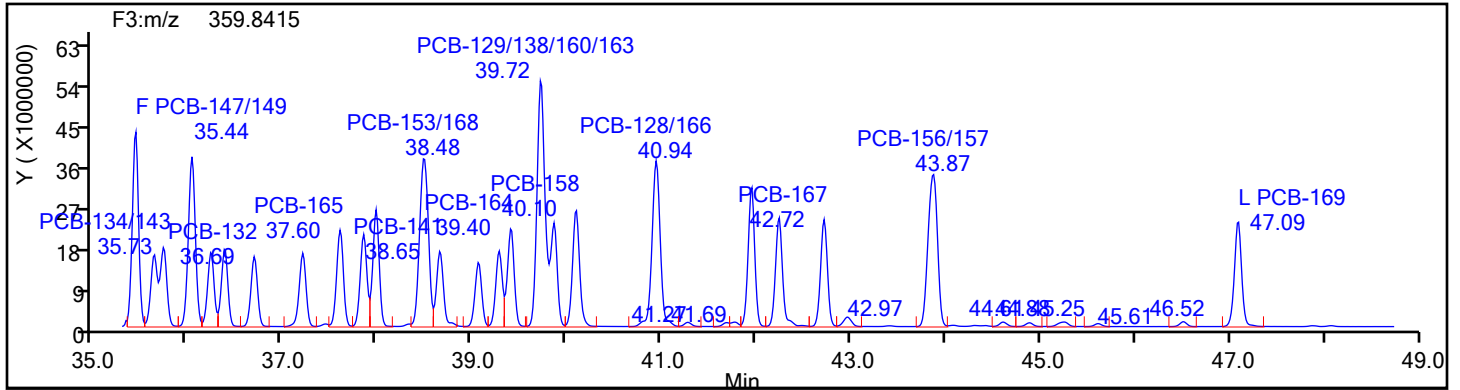
Worklist#: 87130

Sample Line#: 6

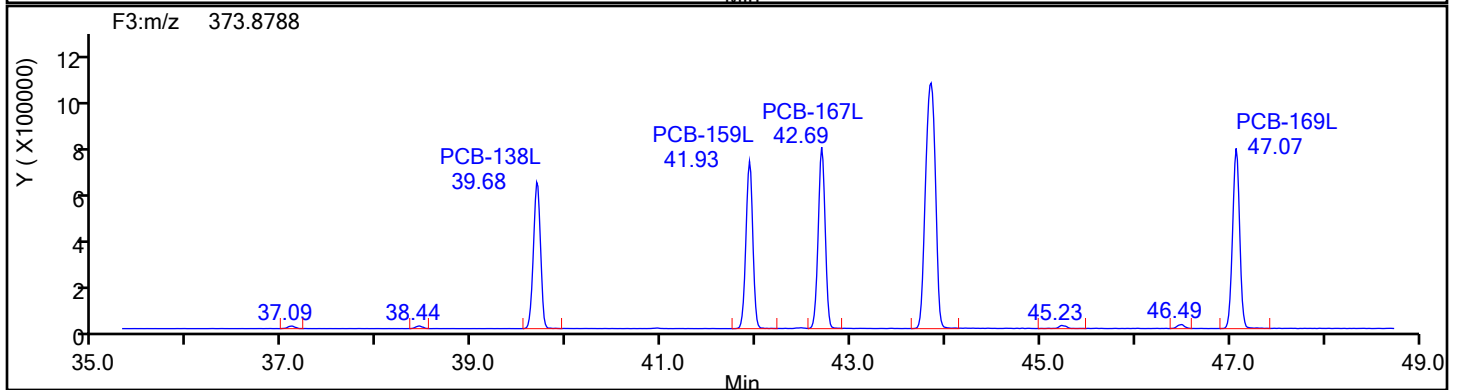
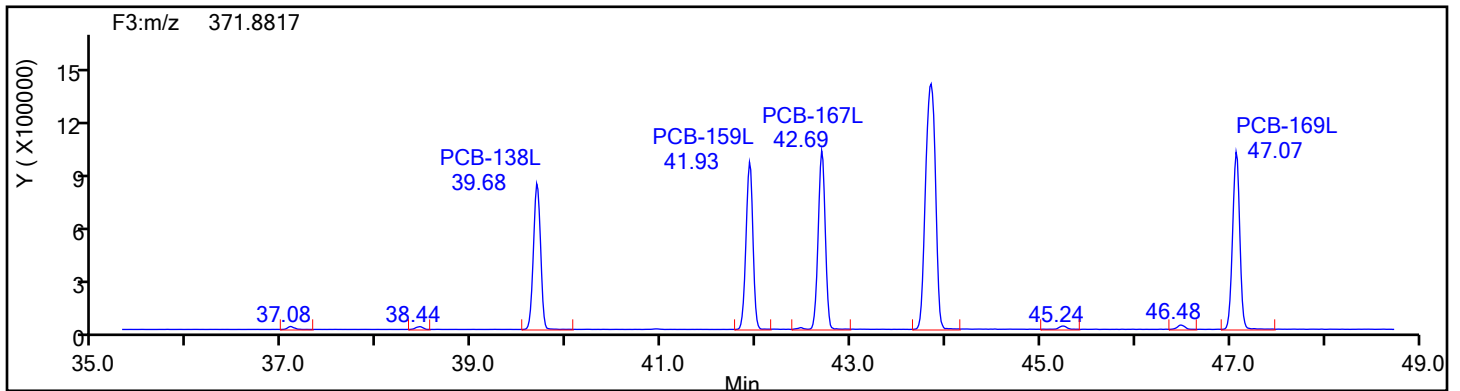
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

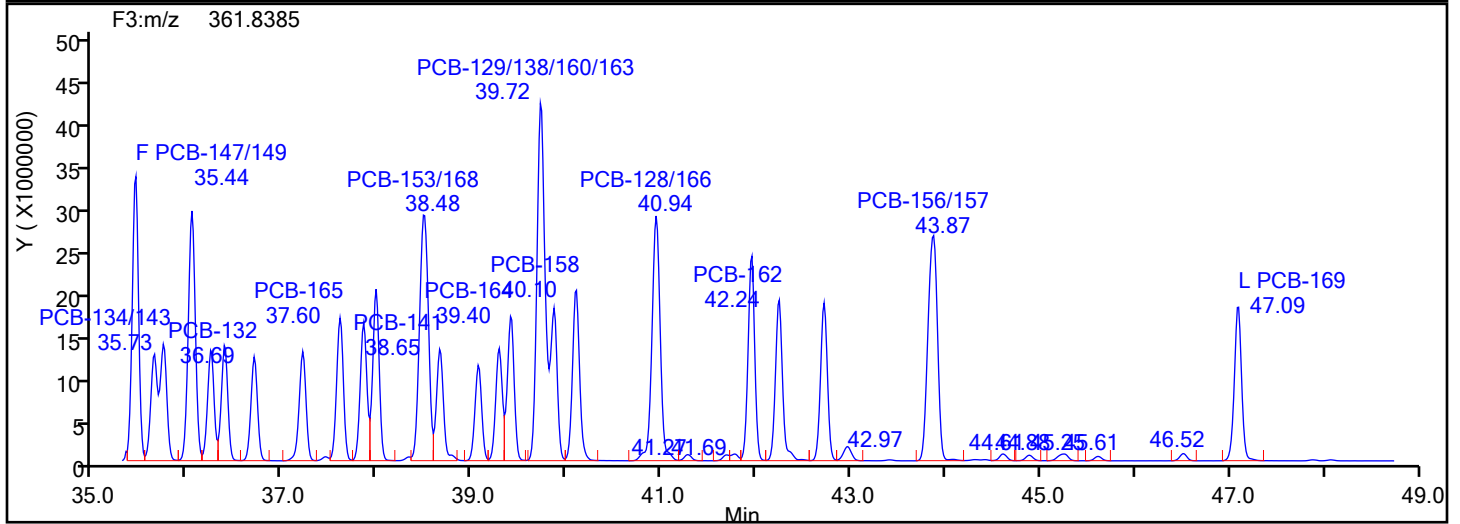
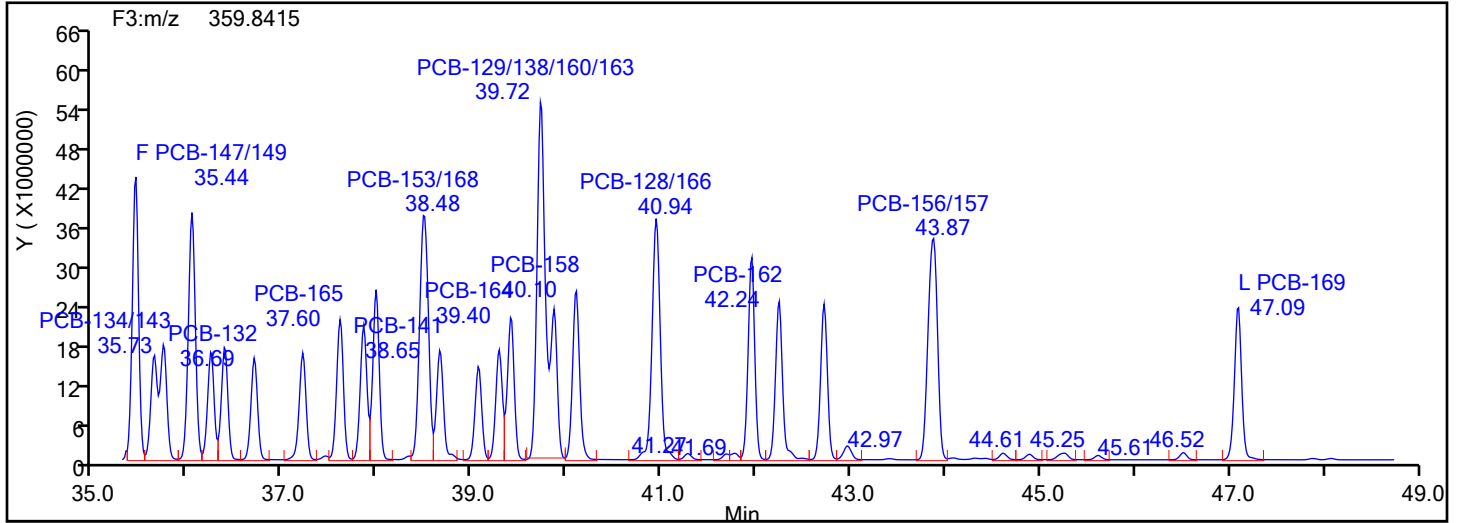
Worklist#: 87130

Sample Line#: 6

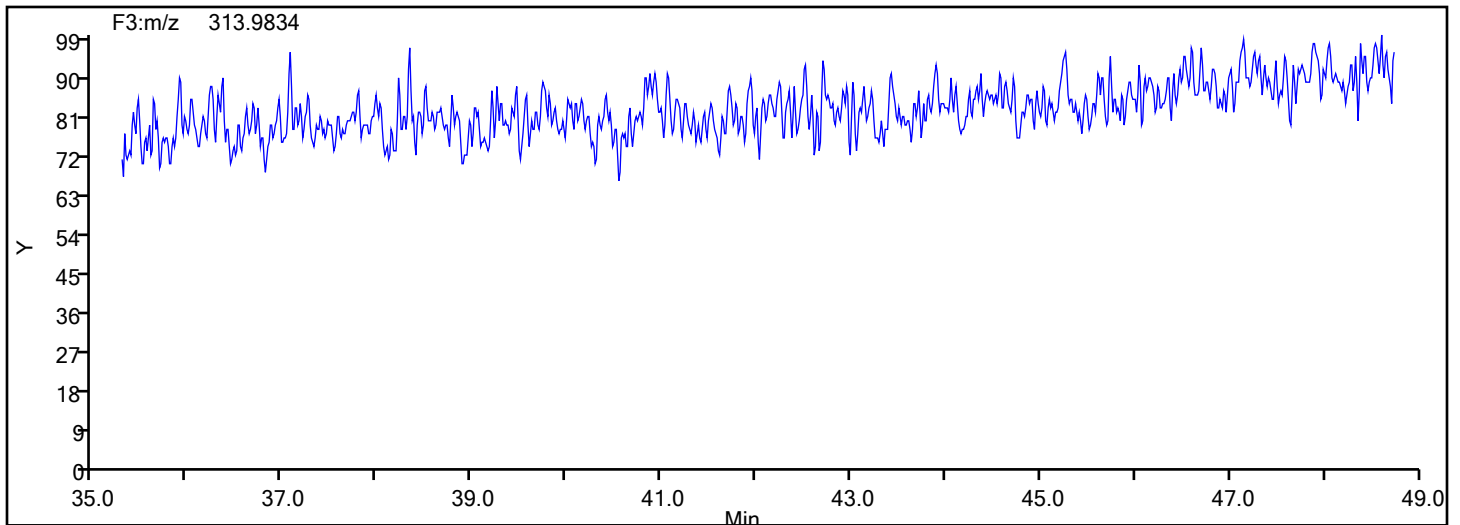
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

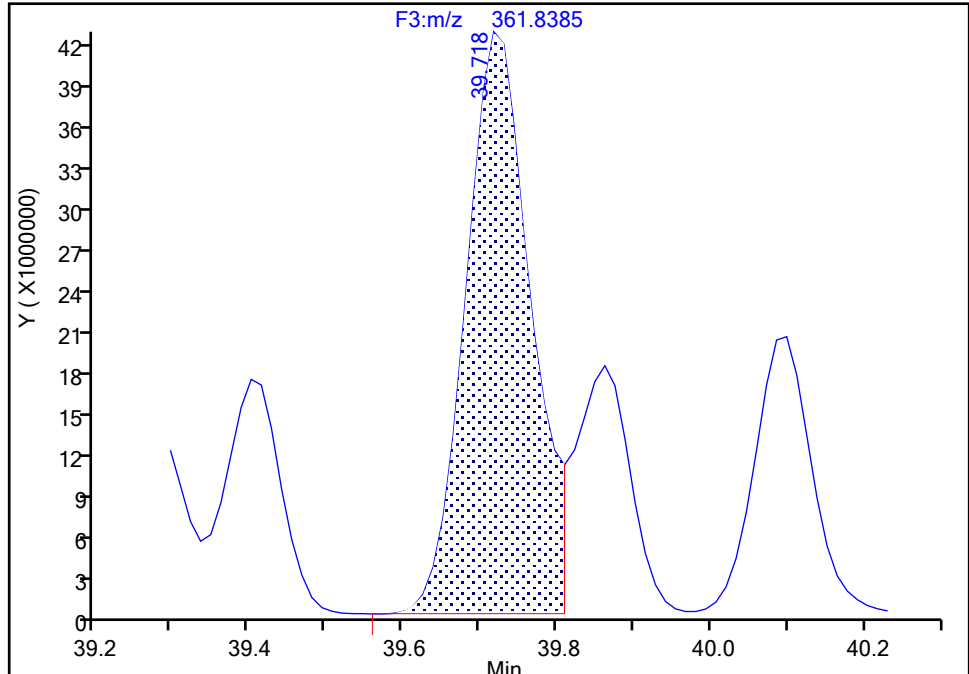
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

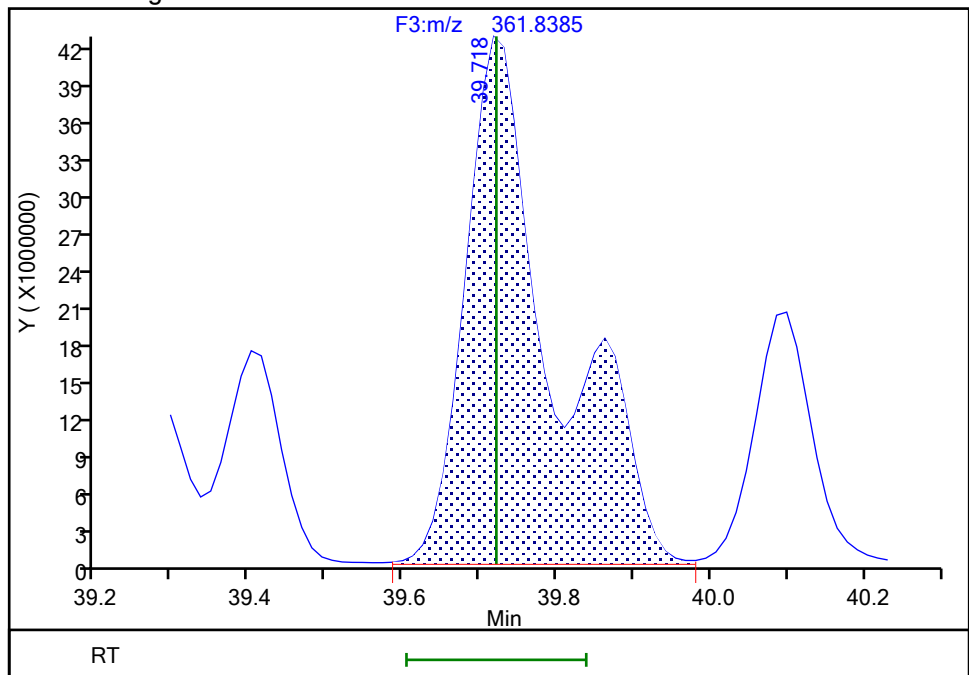
RT: 39.72
Area: 247810200
Amount: 6869.7619
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 336254921
Amount: 8823.7691
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

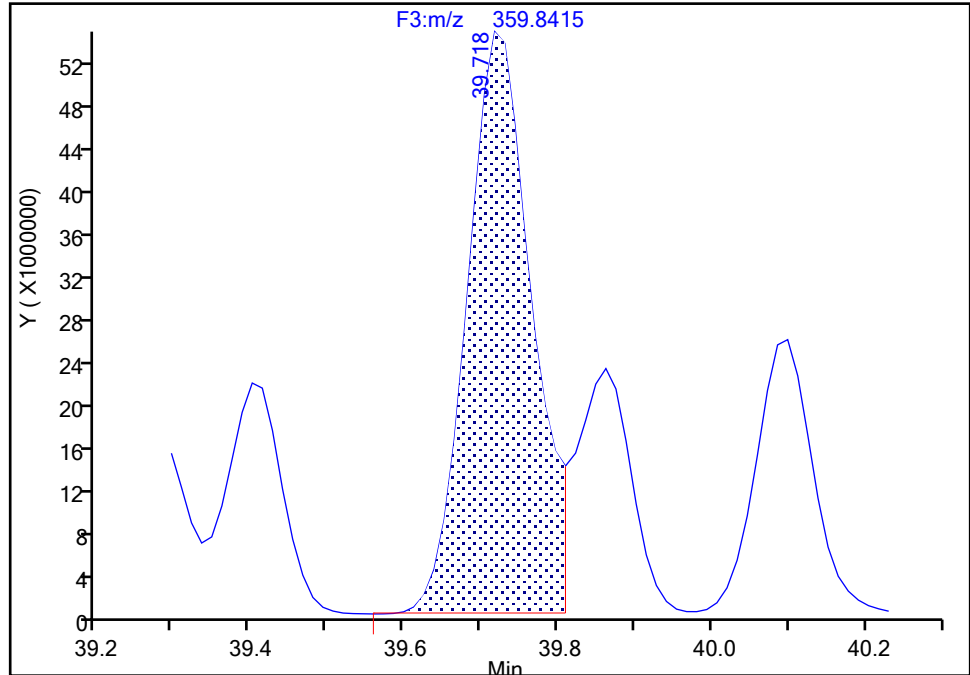
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

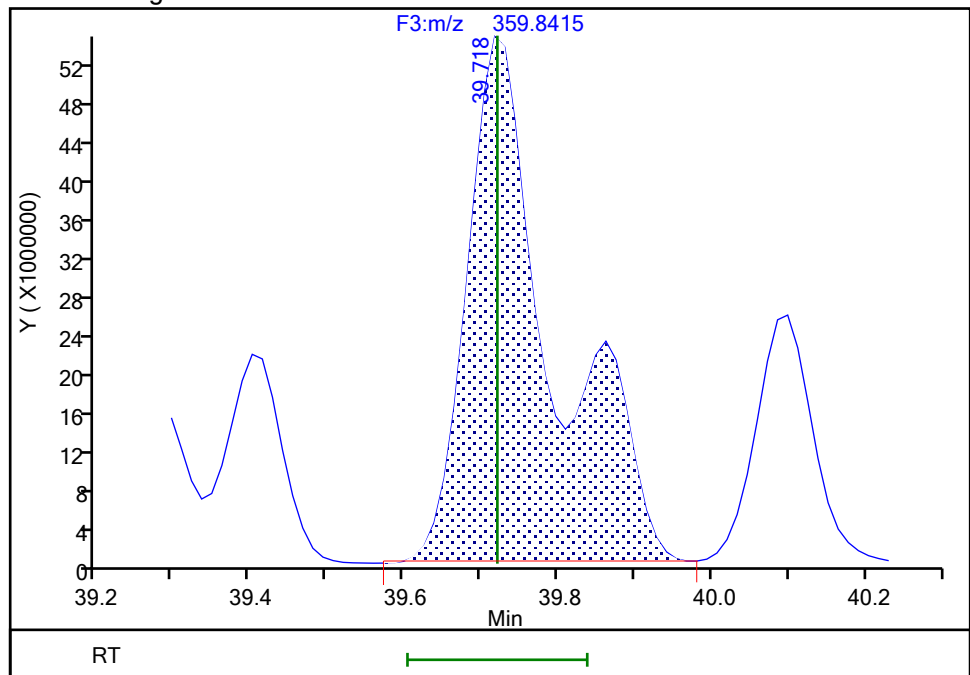
RT: 39.72
Area: 318487189
Amount: 6869.7619
Amount Units: pg/ul

Processing Integration Results



RT: 39.72
Area: 427397226
Amount: 8823.7691
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2264 of 3050

BASFWC-McIntosh-010265

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

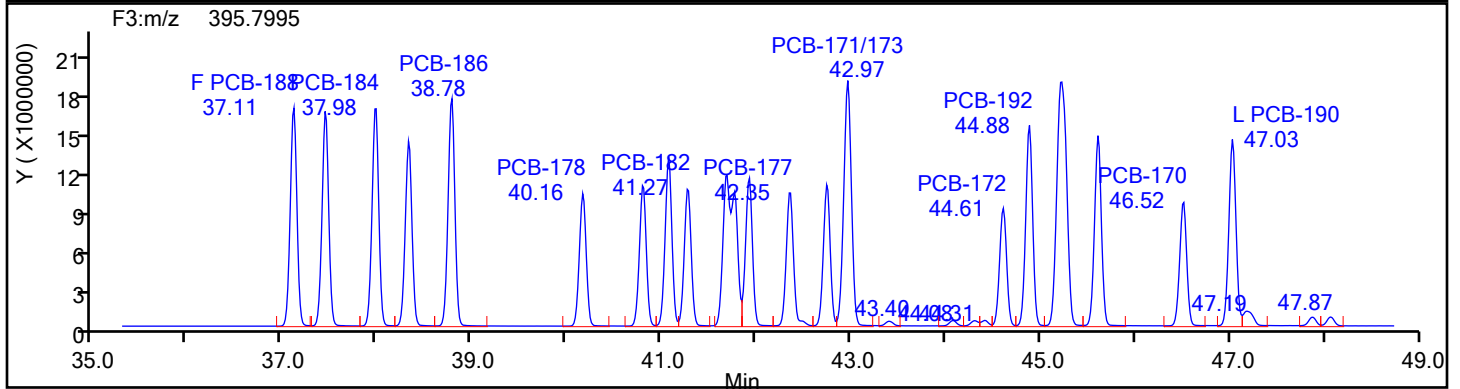
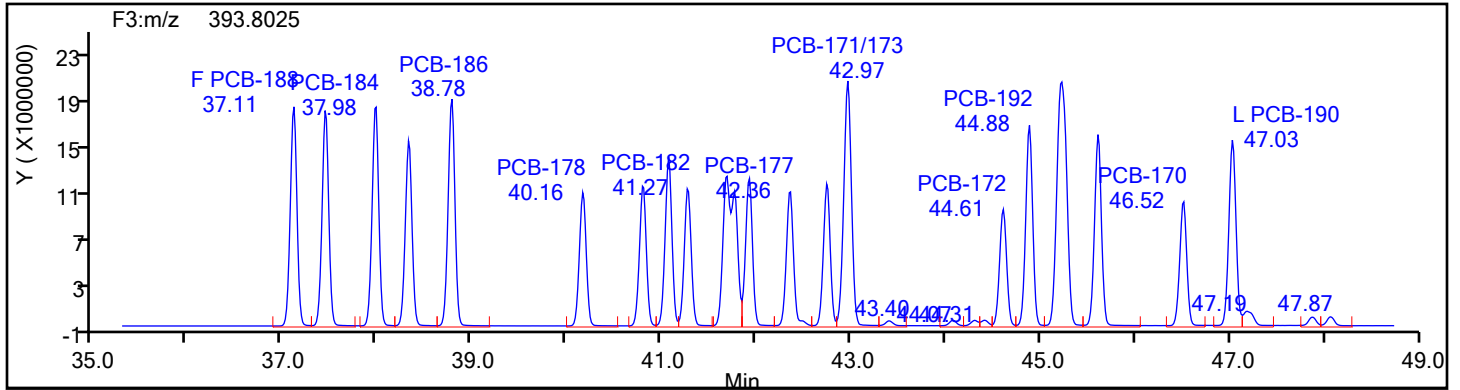
Worklist#: 87130

Sample Line#: 6

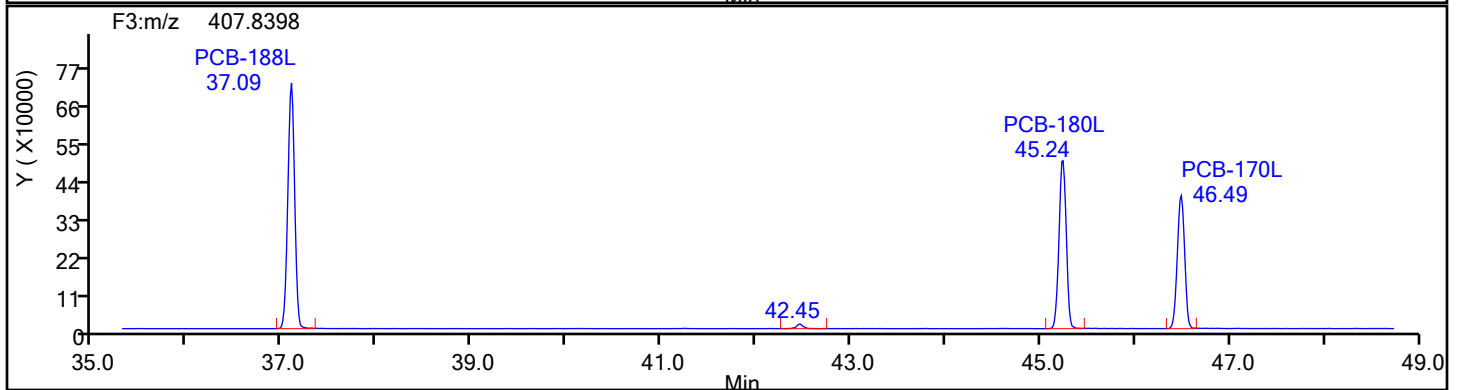
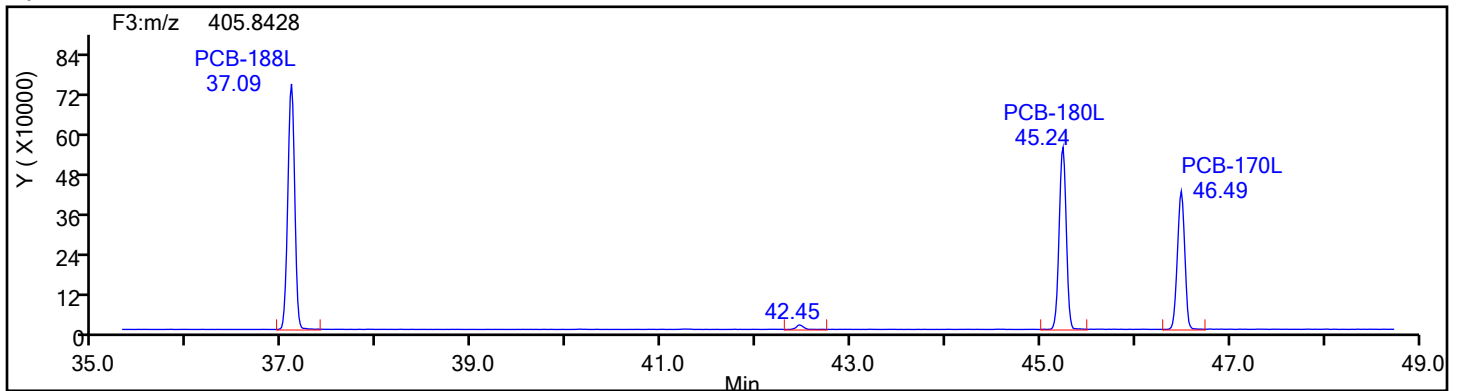
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

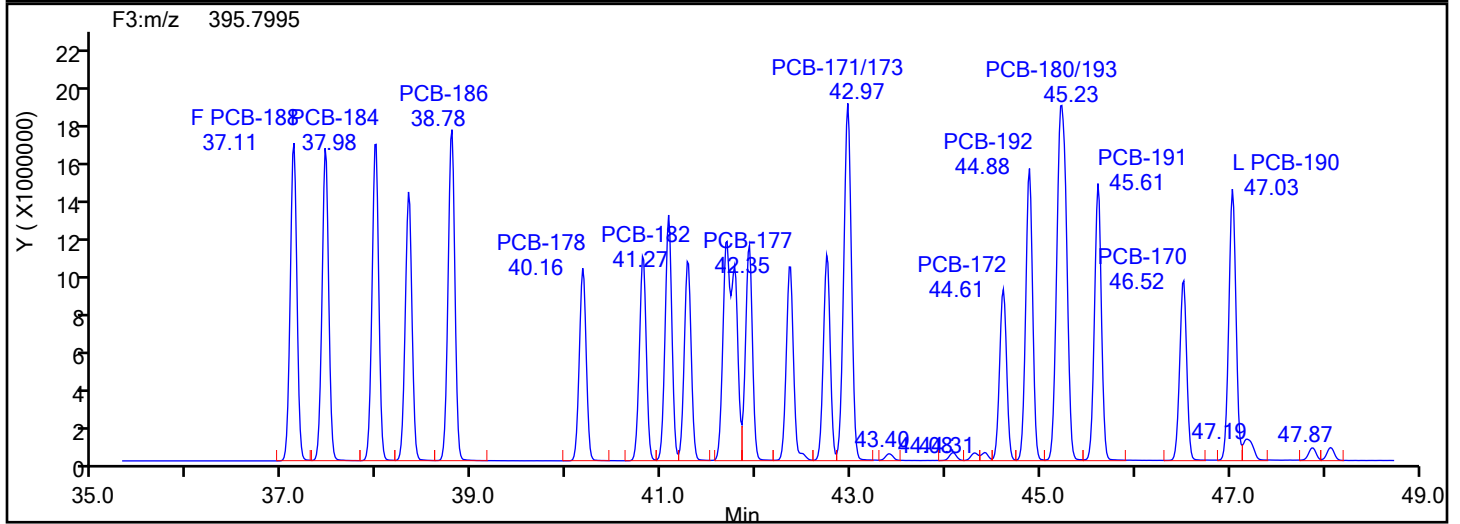
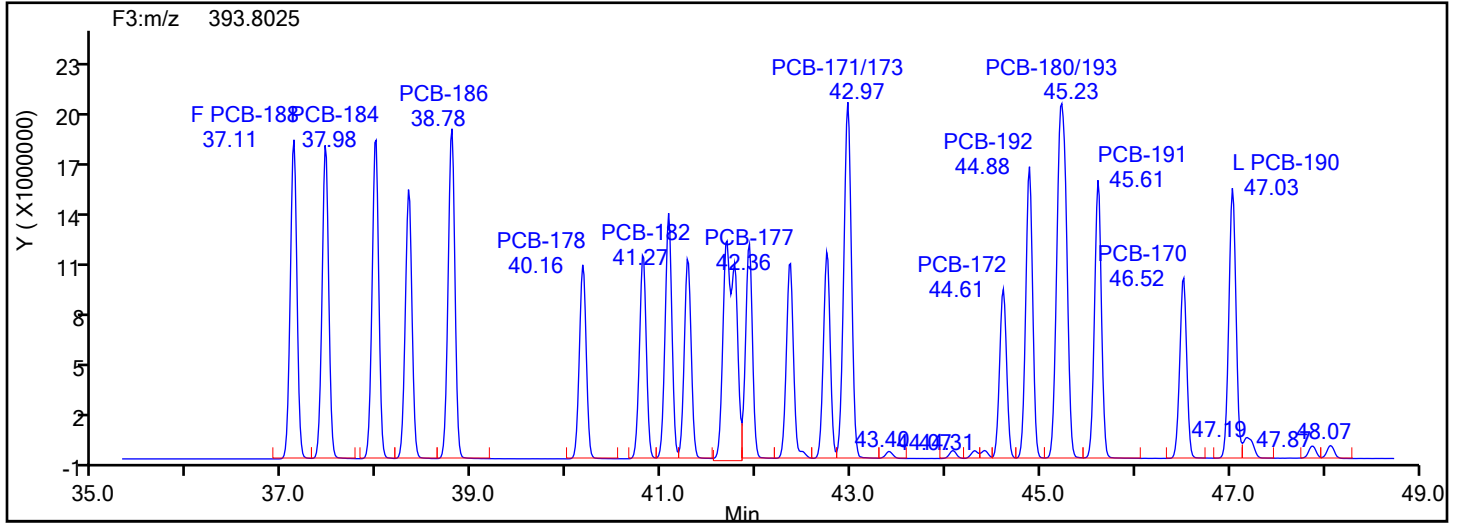
Worklist#: 87130

Sample Line#: 6

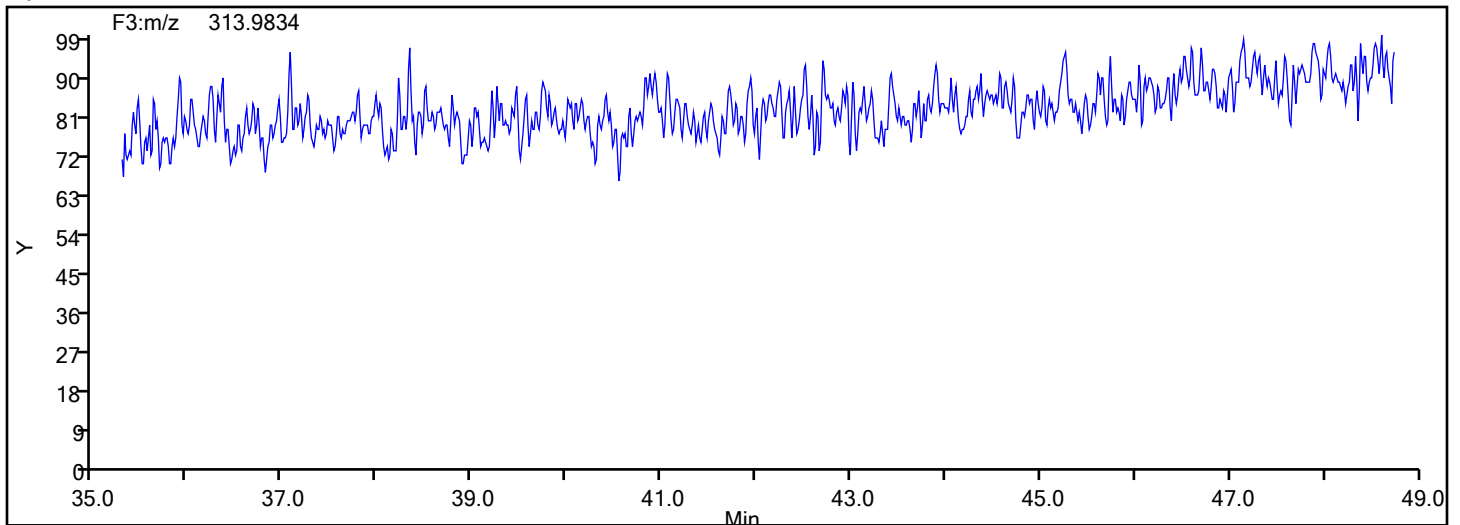
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

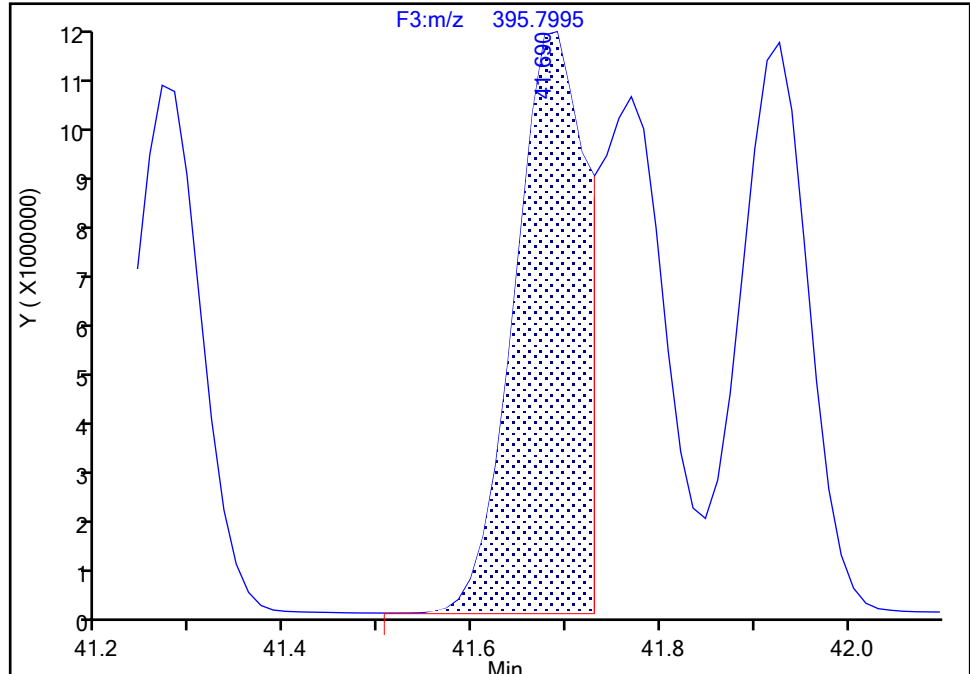
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

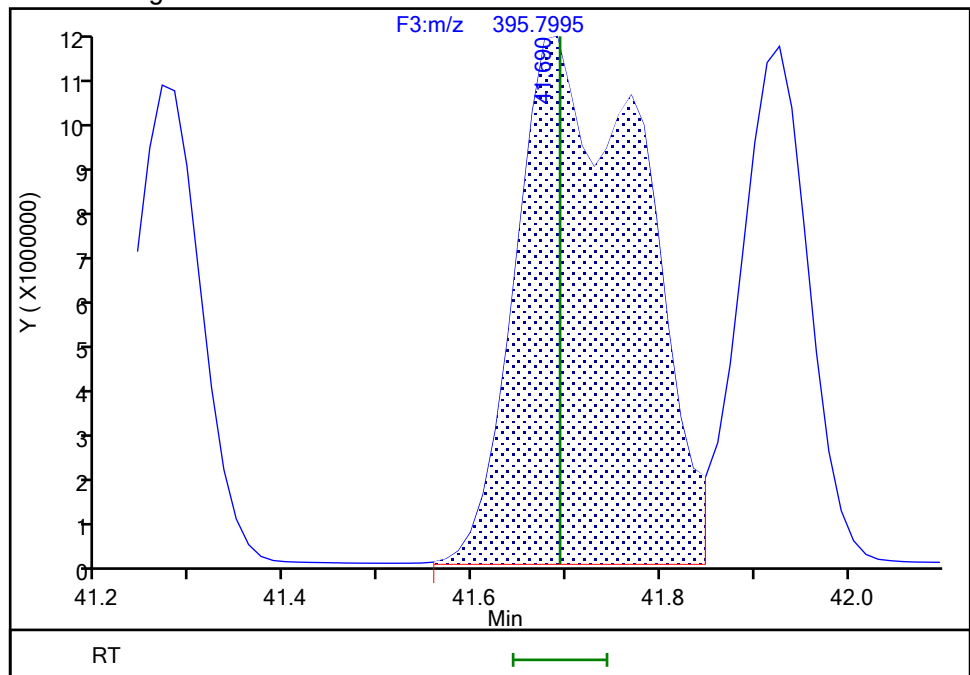
RT: 41.69
Area: 60297364
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 109695368
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

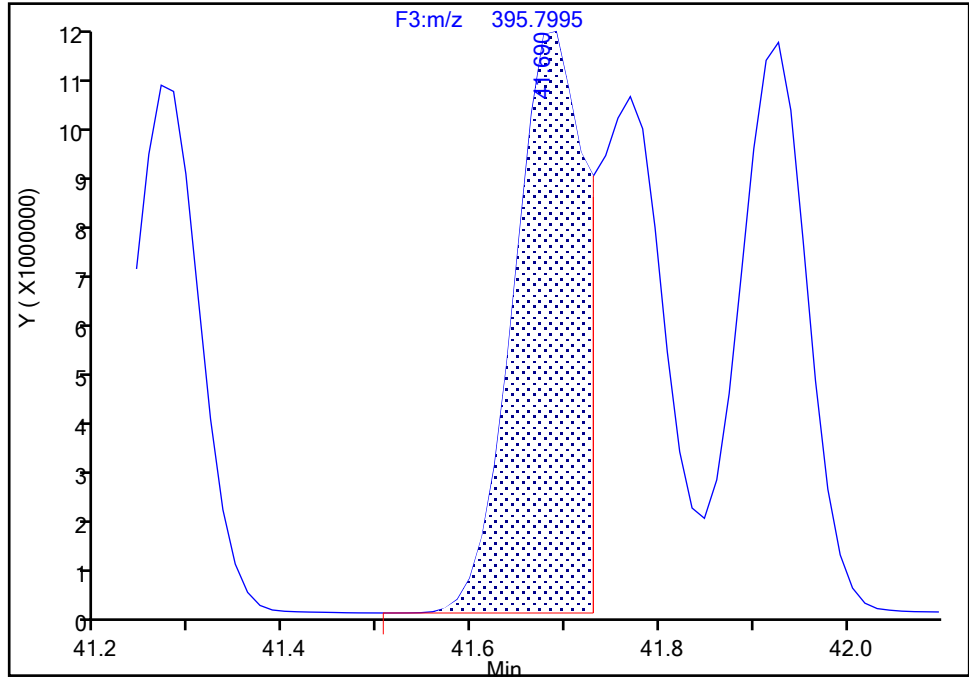
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

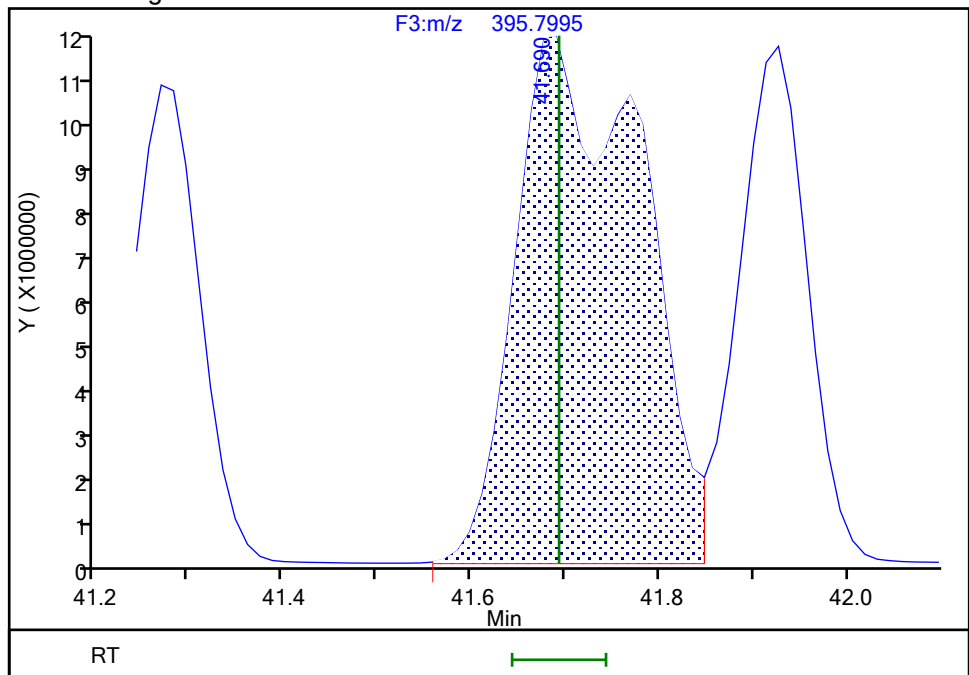
RT: 41.69
Area: 60297364
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 109695368
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2268 of 3050

BASFWC-McIntosh-010269

9/6/2024

4:11:20 PM

Eurofins Knoxville

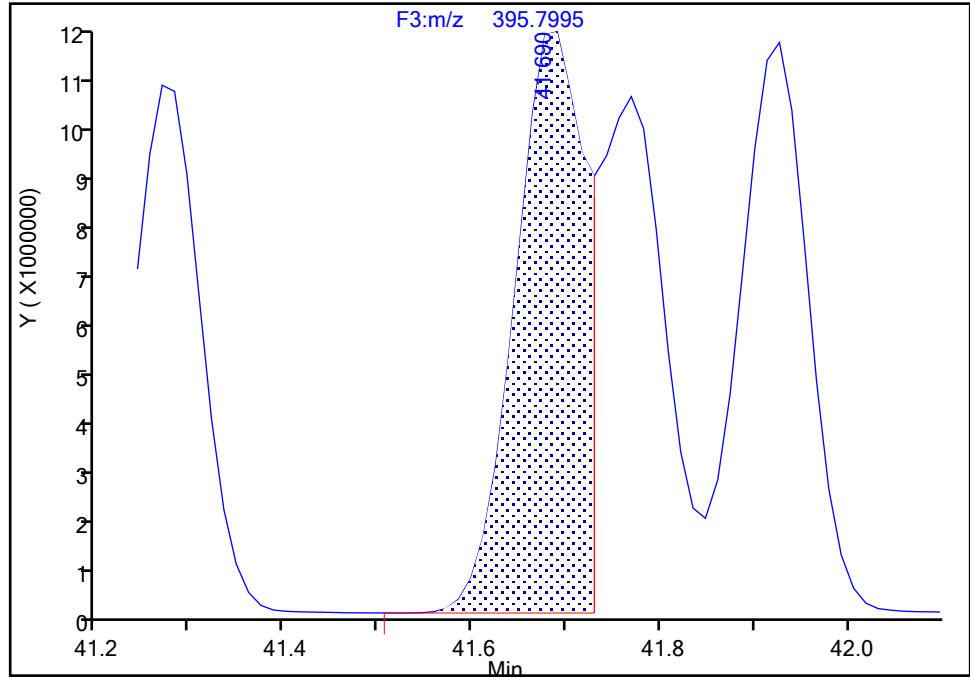
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.69
Area: 123693877
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.69
Area: 226842465
Amount: 3898.4922
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:07:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

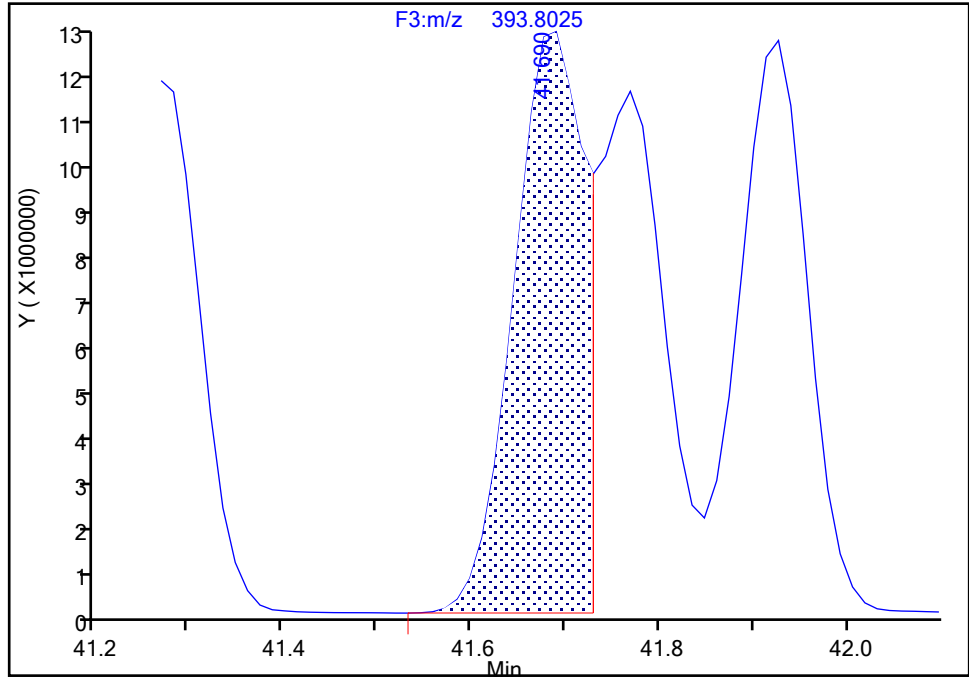
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D
Lims ID: IC L6
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

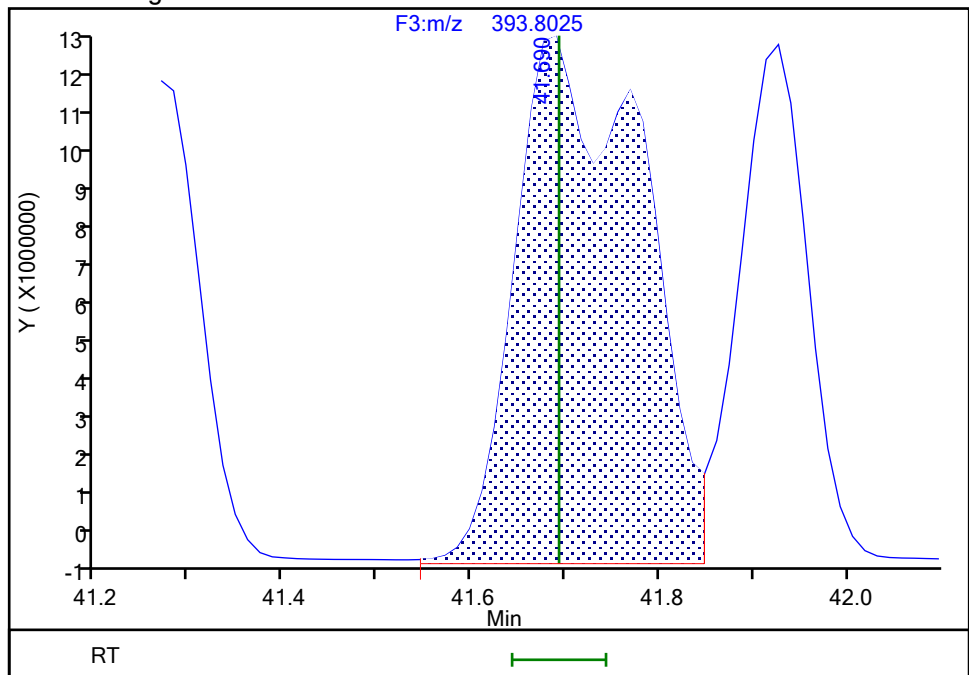
RT: 41.69
Area: 63396513
Amount: 2295.3297
Amount Units: pg/ul

Processing Integration Results



RT: 41.69
Area: 117147097
Amount: 3898.4922
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:08:01 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 2270 of 3050

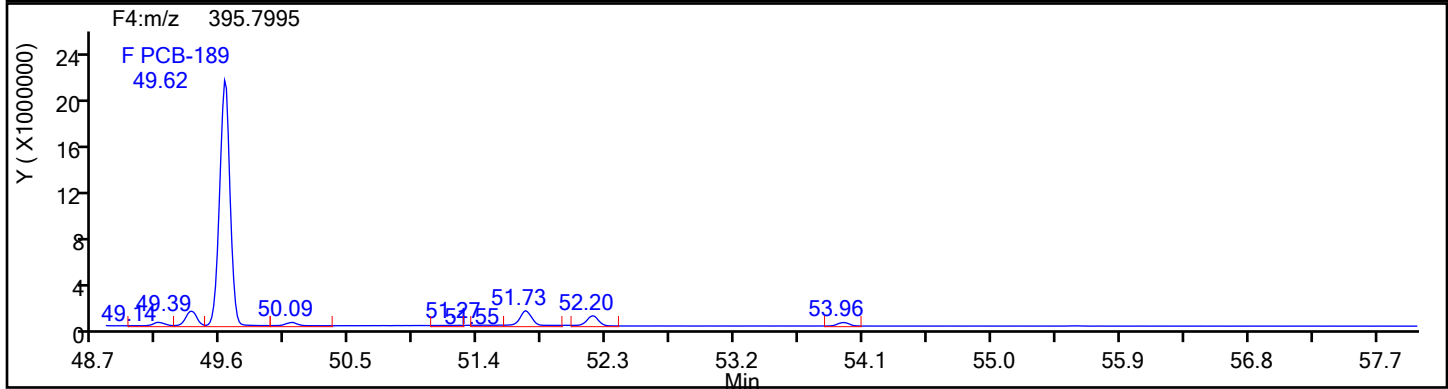
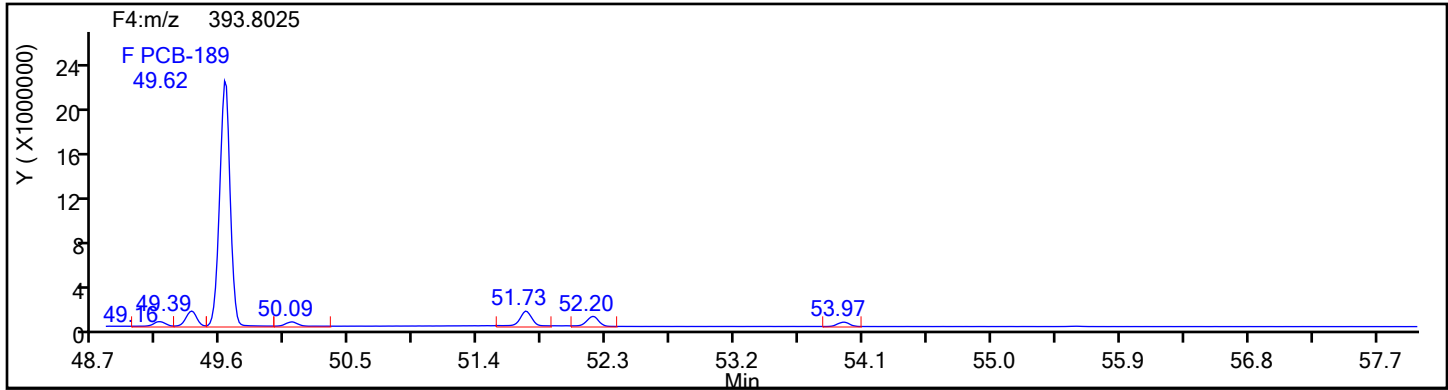
BASFWC-McIntosh-010271

9/6/2024

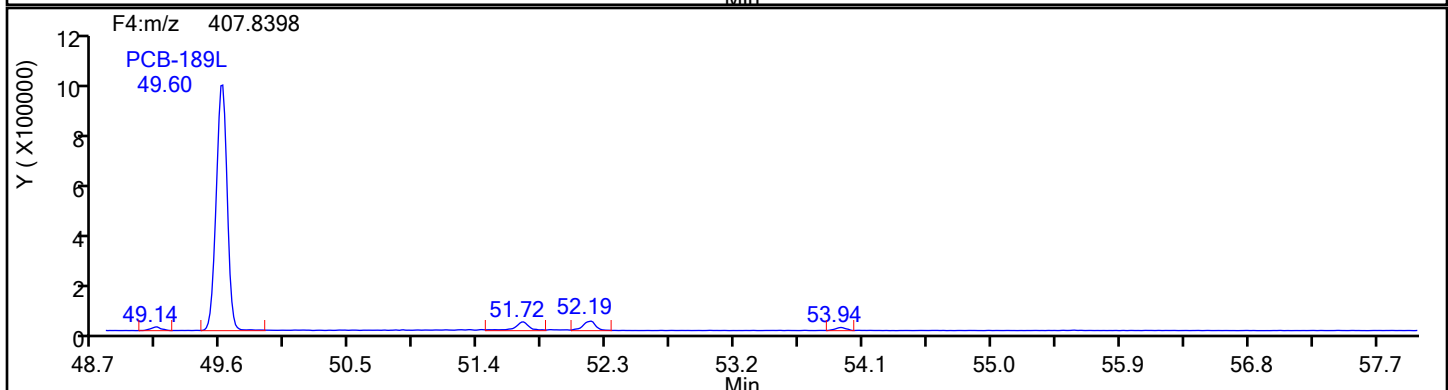
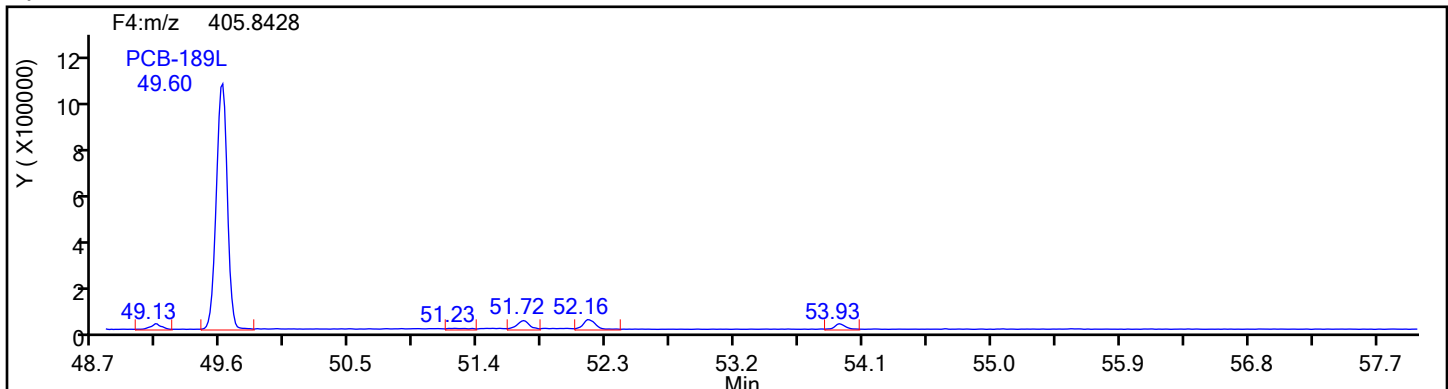
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

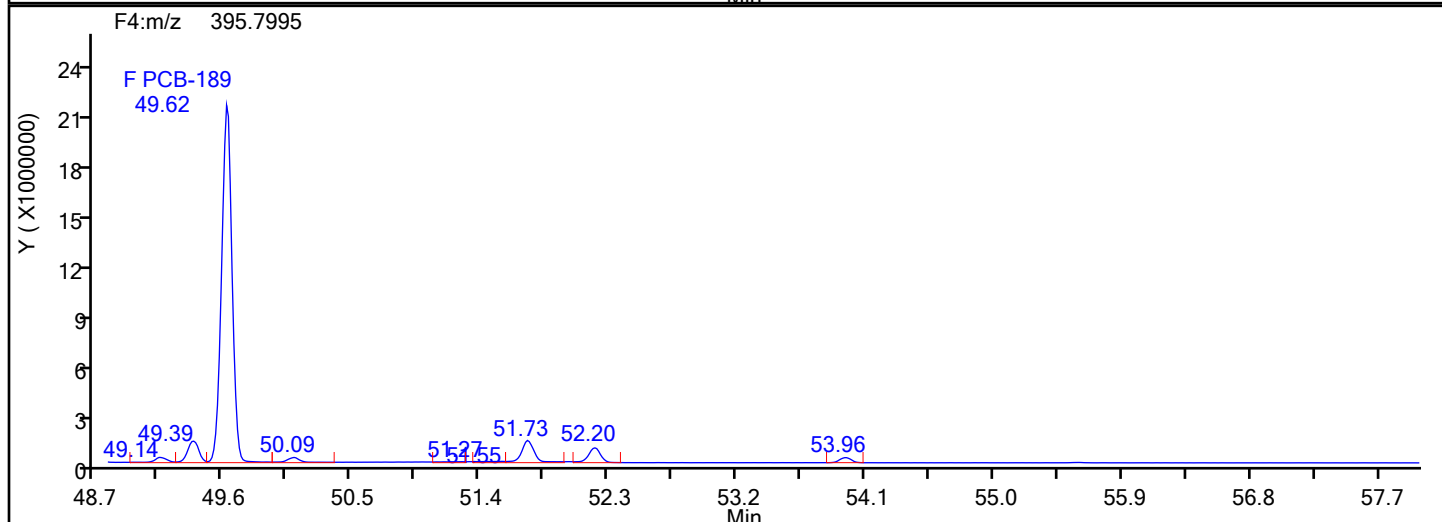
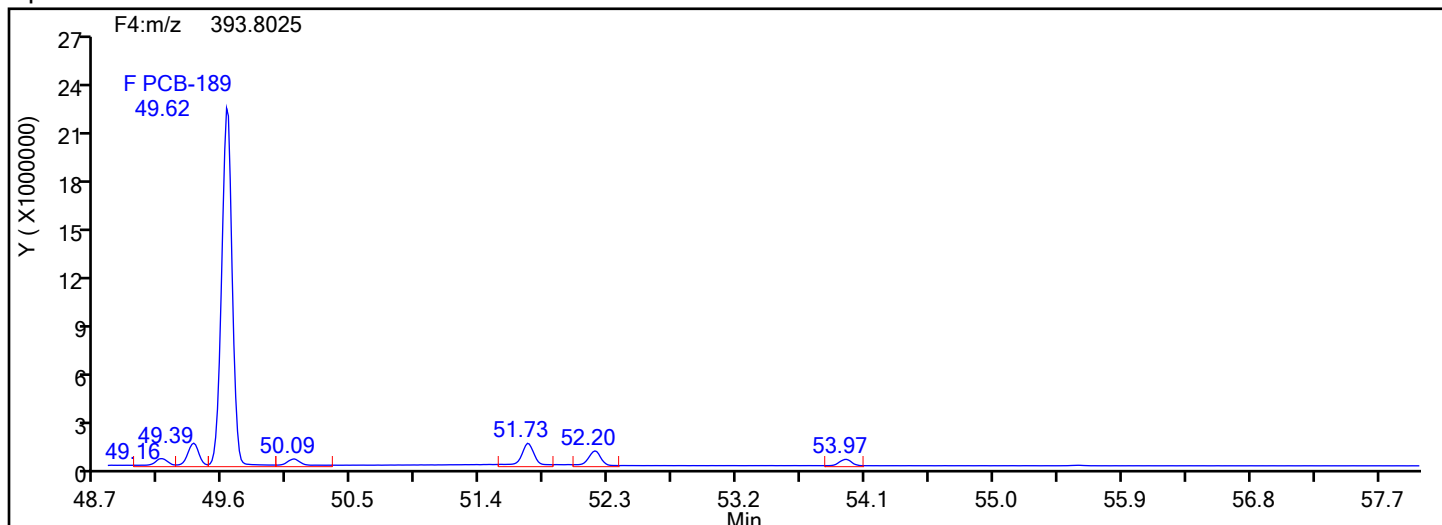
Worklist#: 87130

Sample Line#: 6

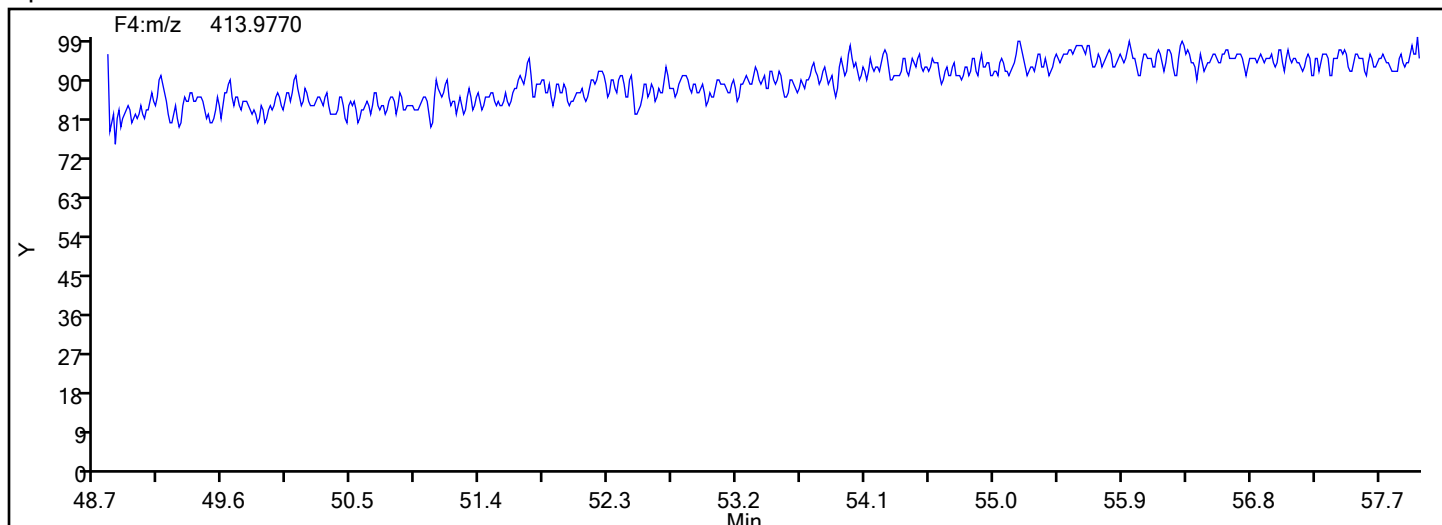
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

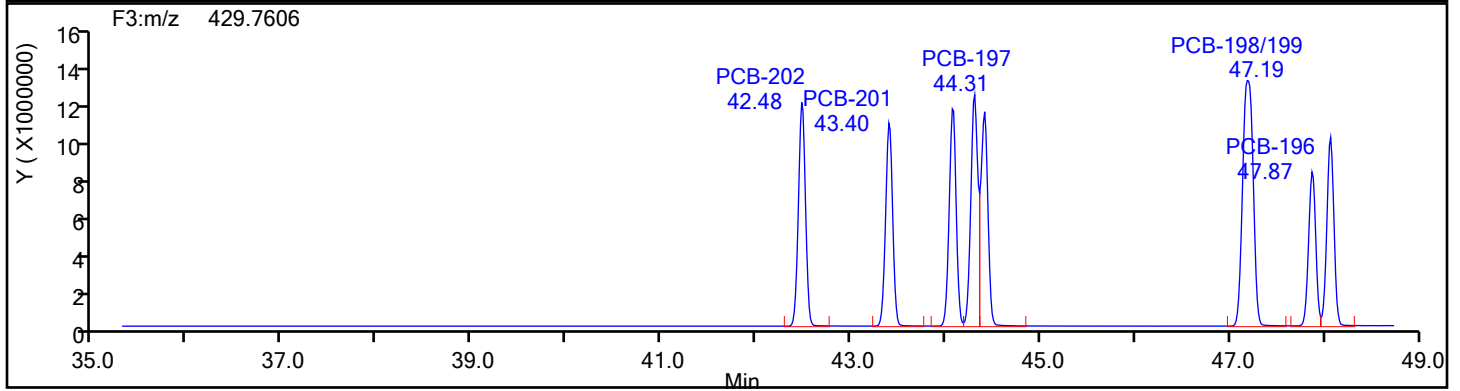
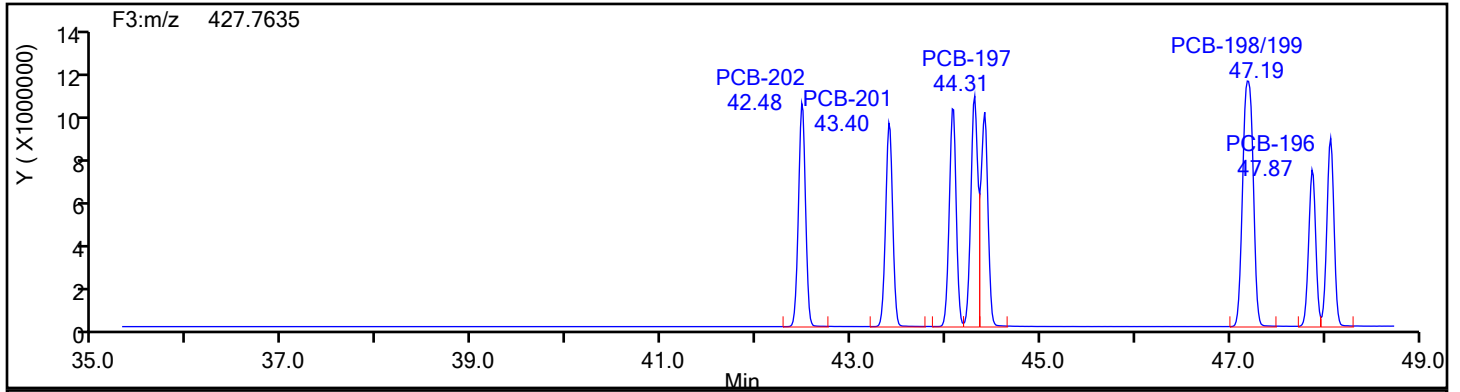
Worklist#: 87130

Sample Line#: 6

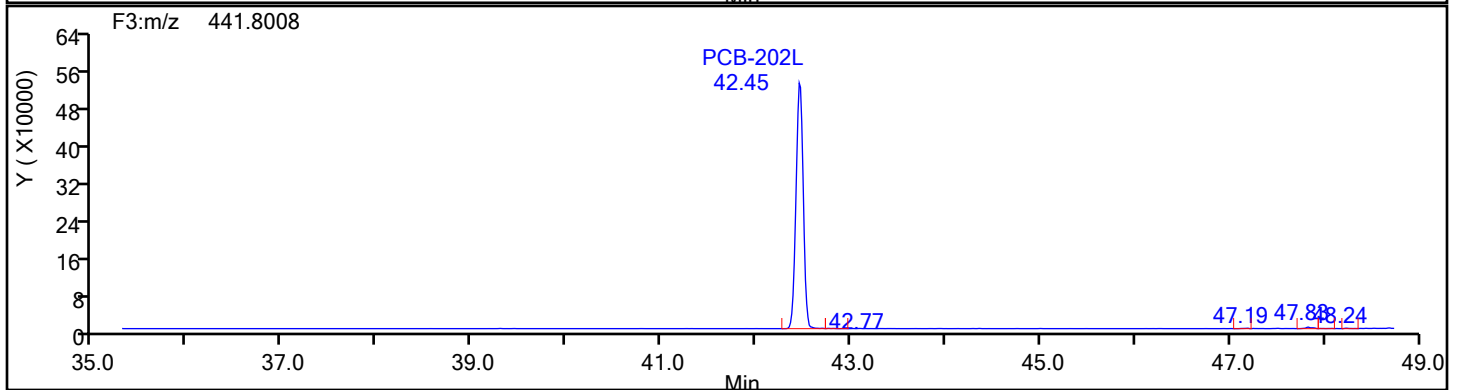
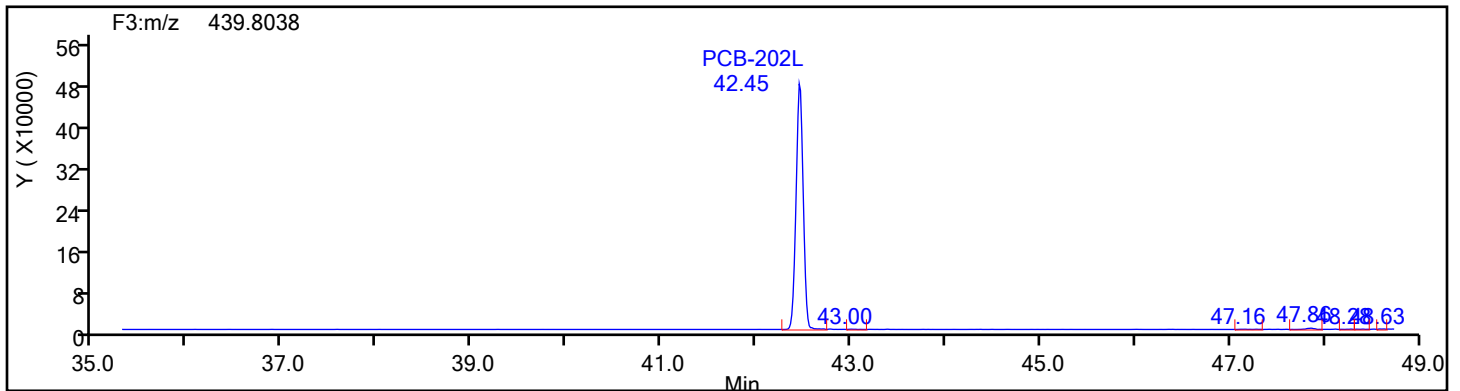
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

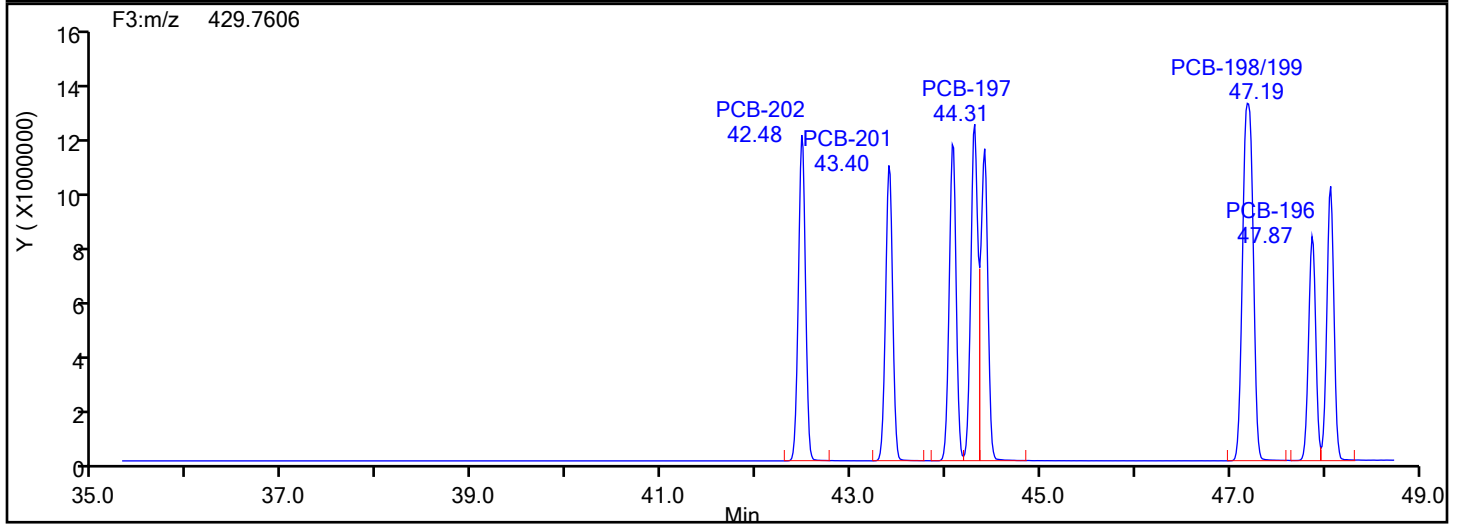
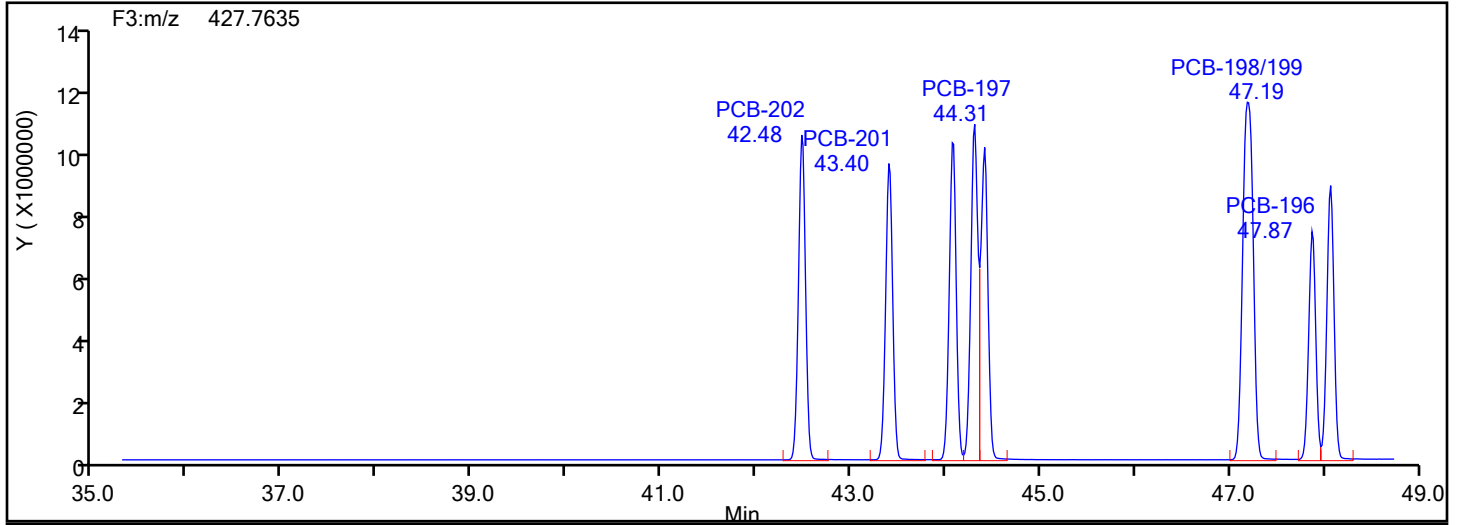


OcPCB F3 Standards

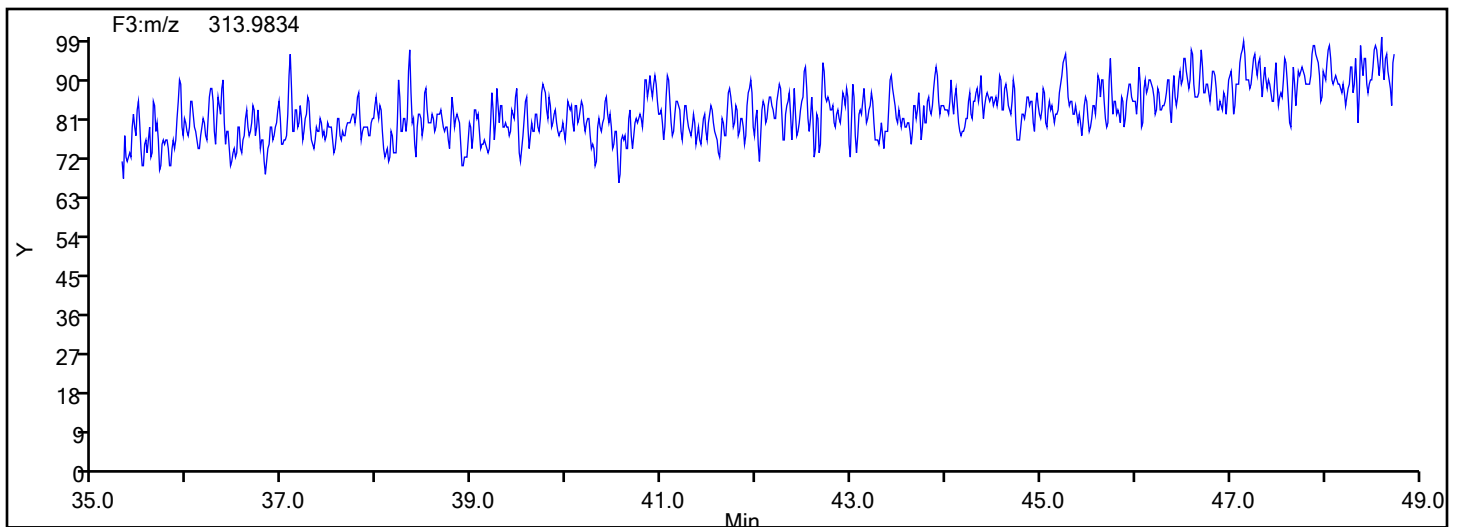


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3

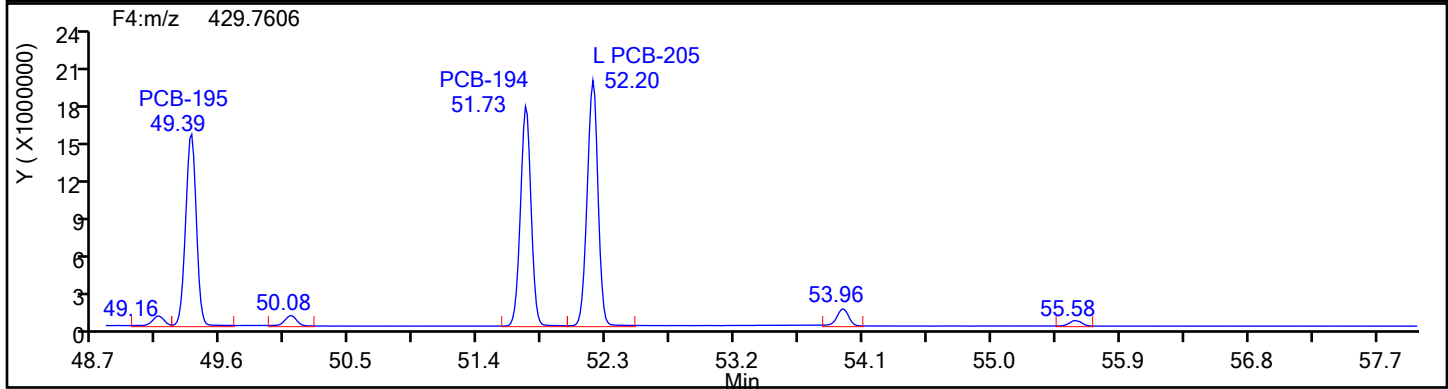
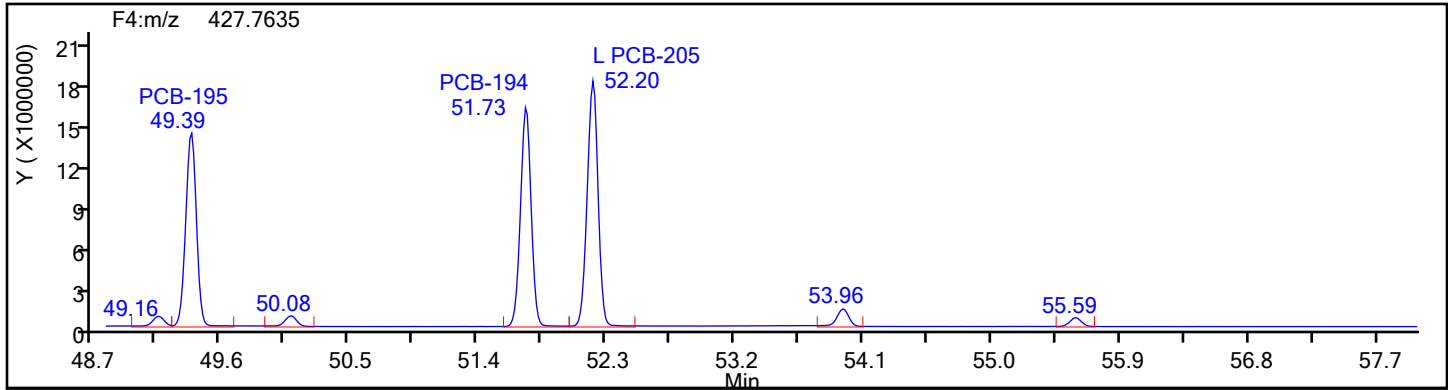


OcPCB F3 Lock Mass

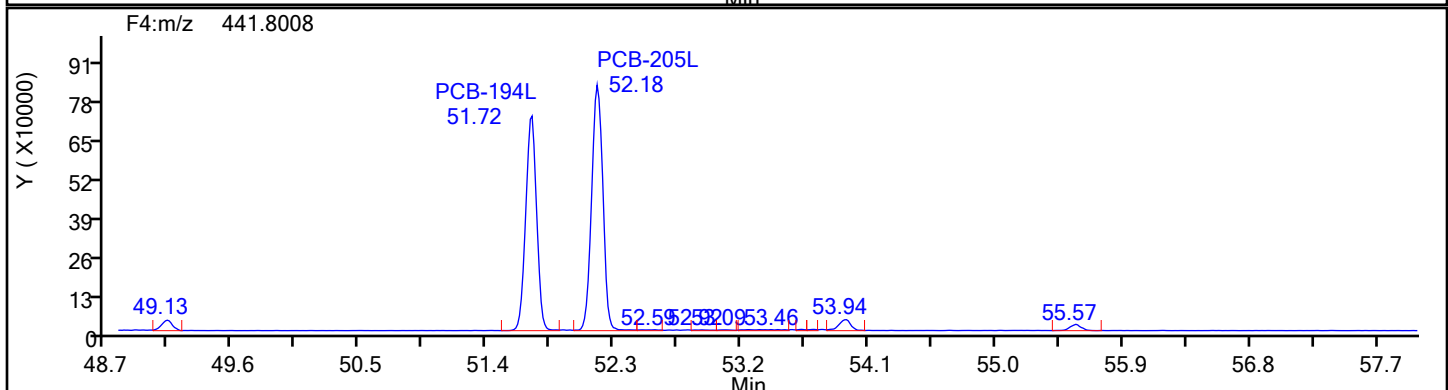
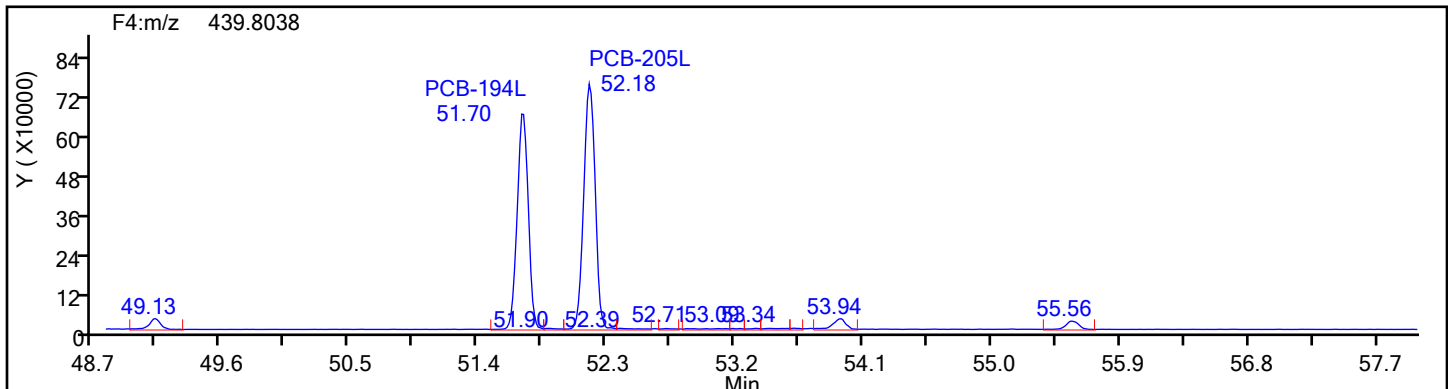


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

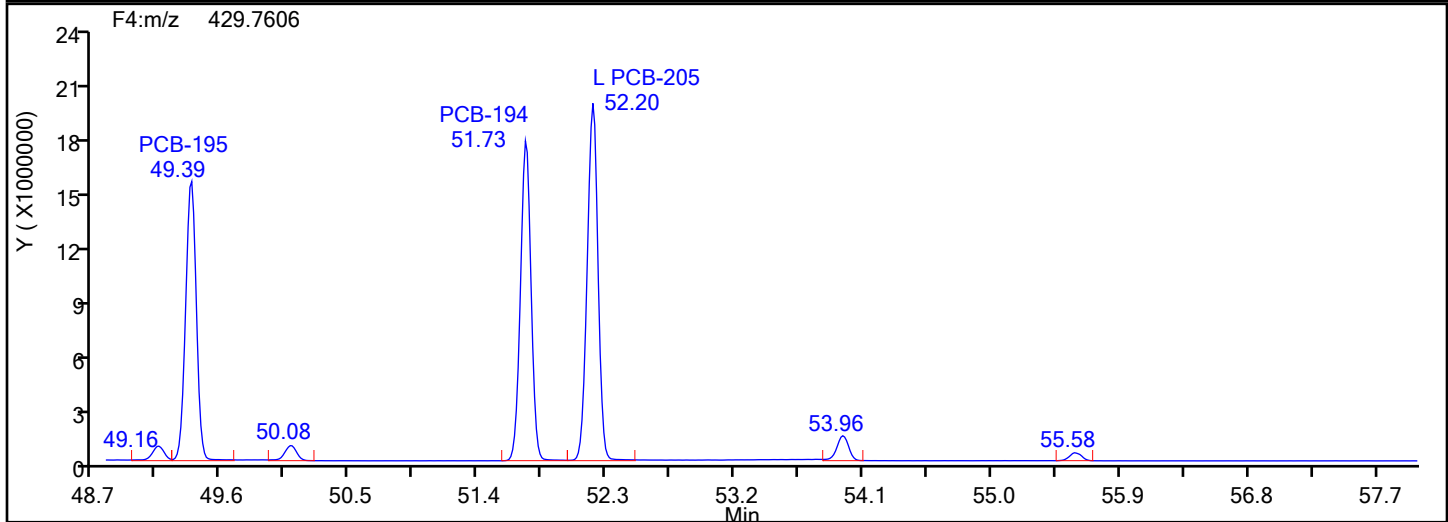
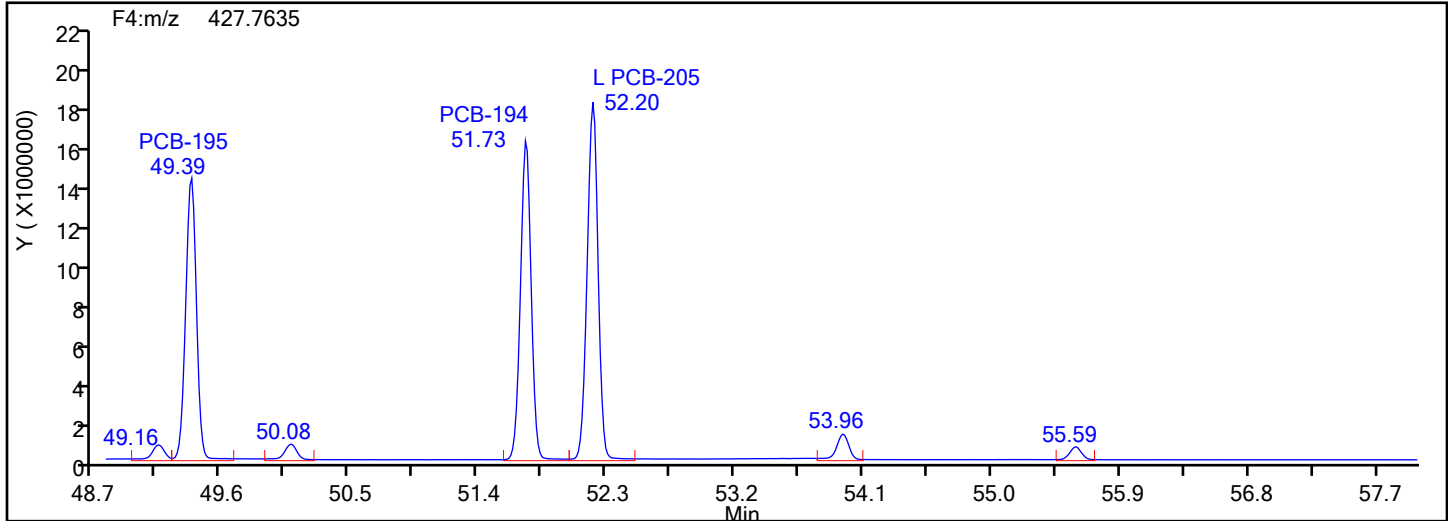
Worklist#: 87130

Sample Line#: 6

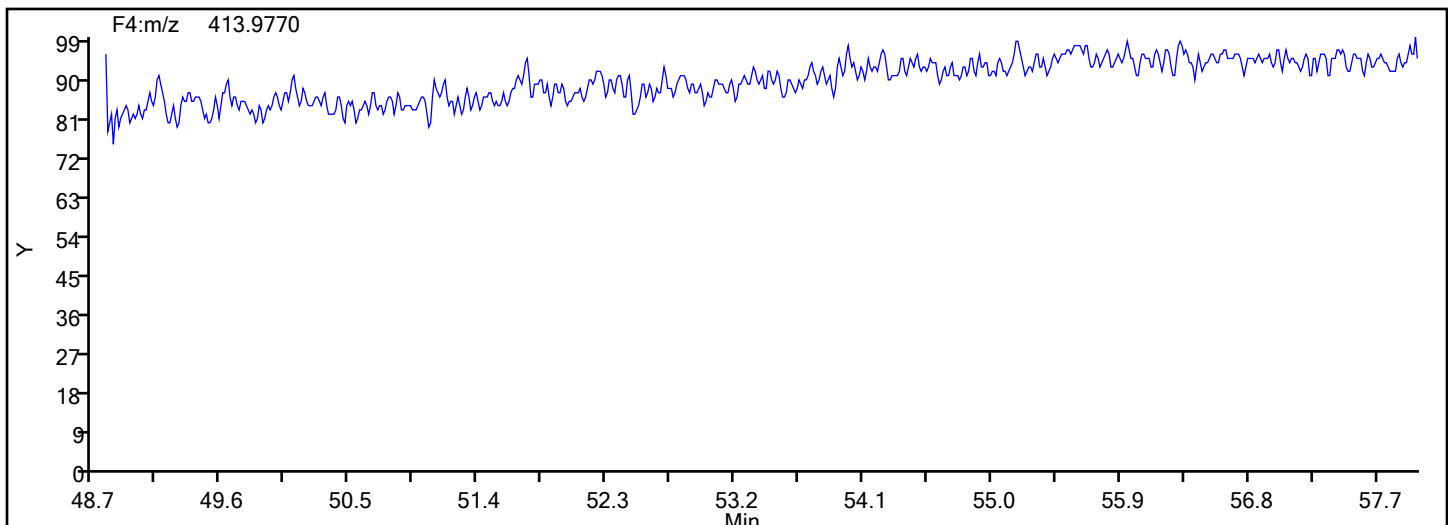
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

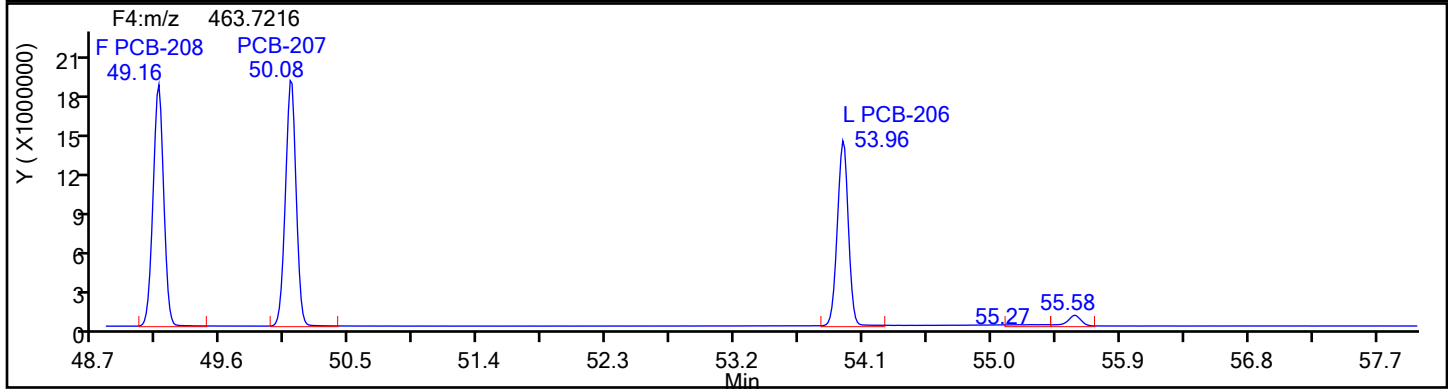
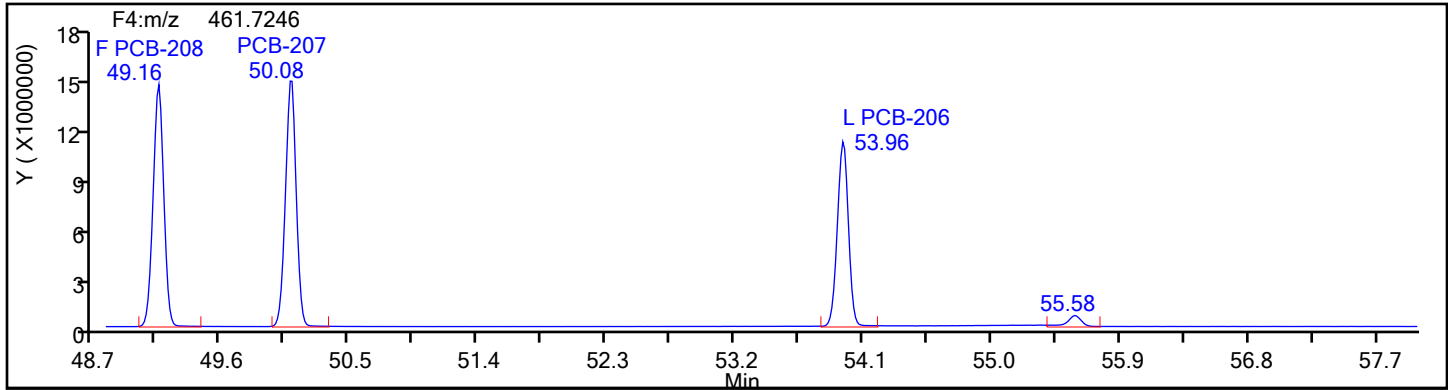


OcPCB F4 Lock Mass

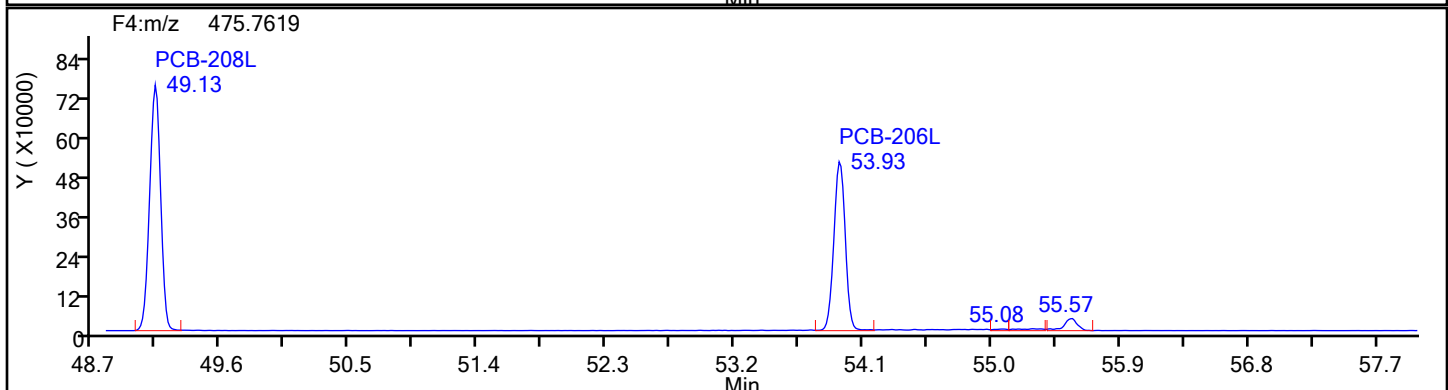
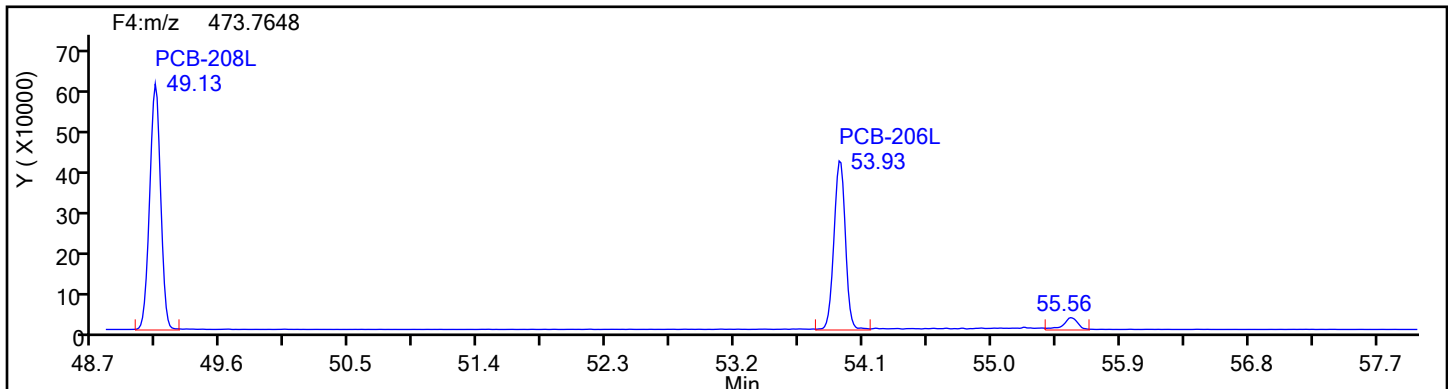


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 6
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

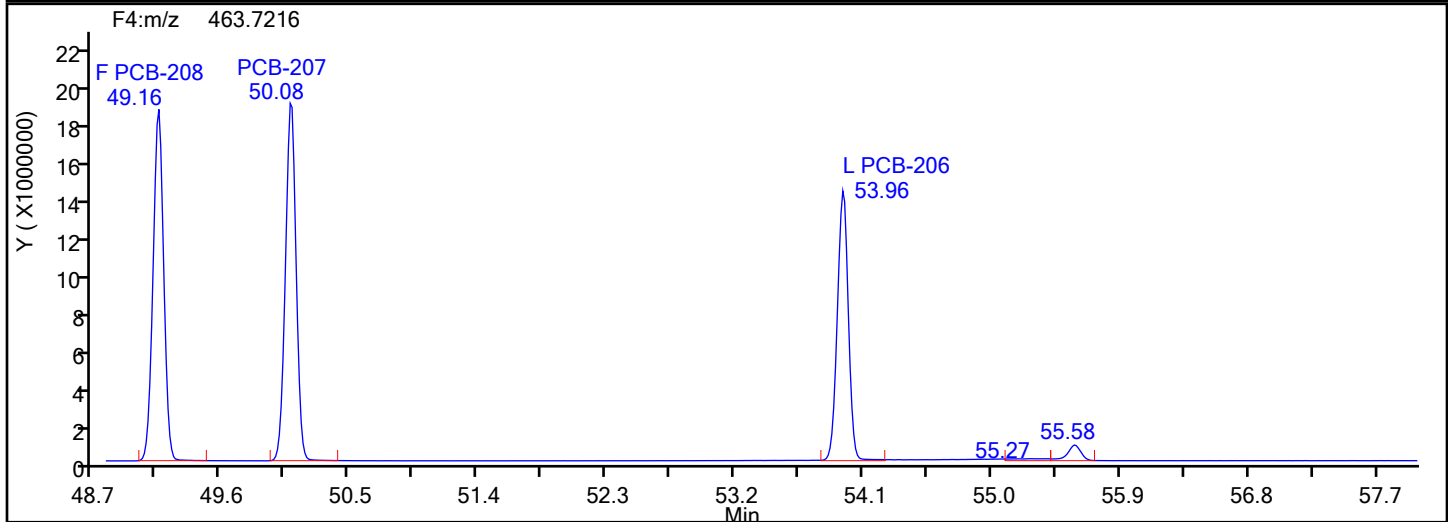
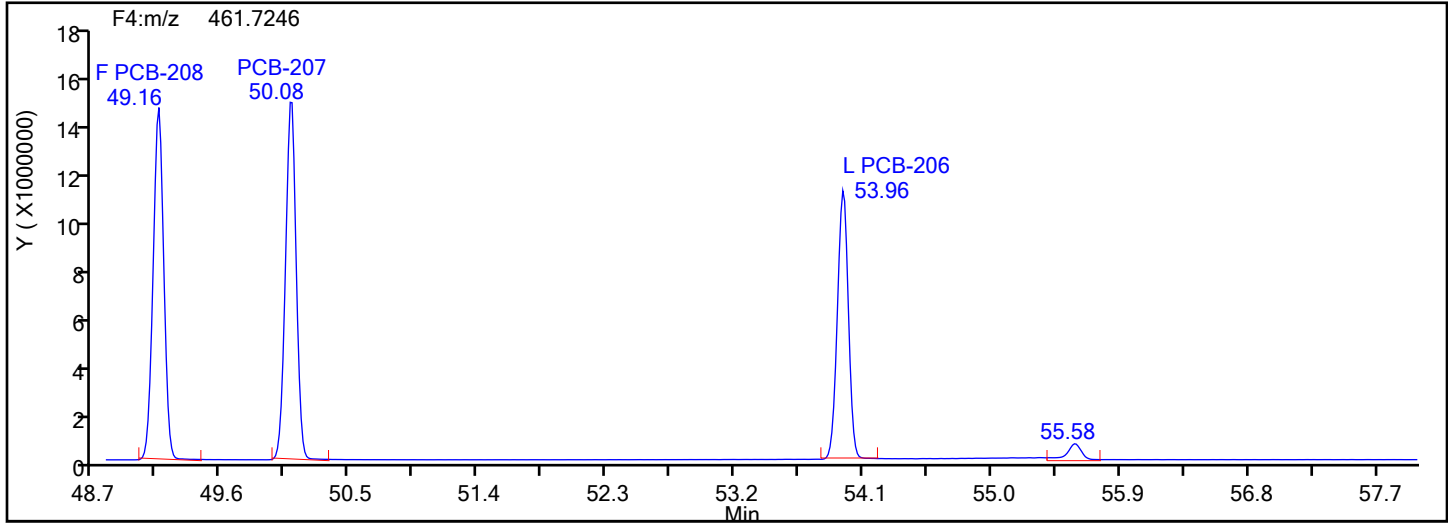
Worklist#: 87130

Sample Line#: 6

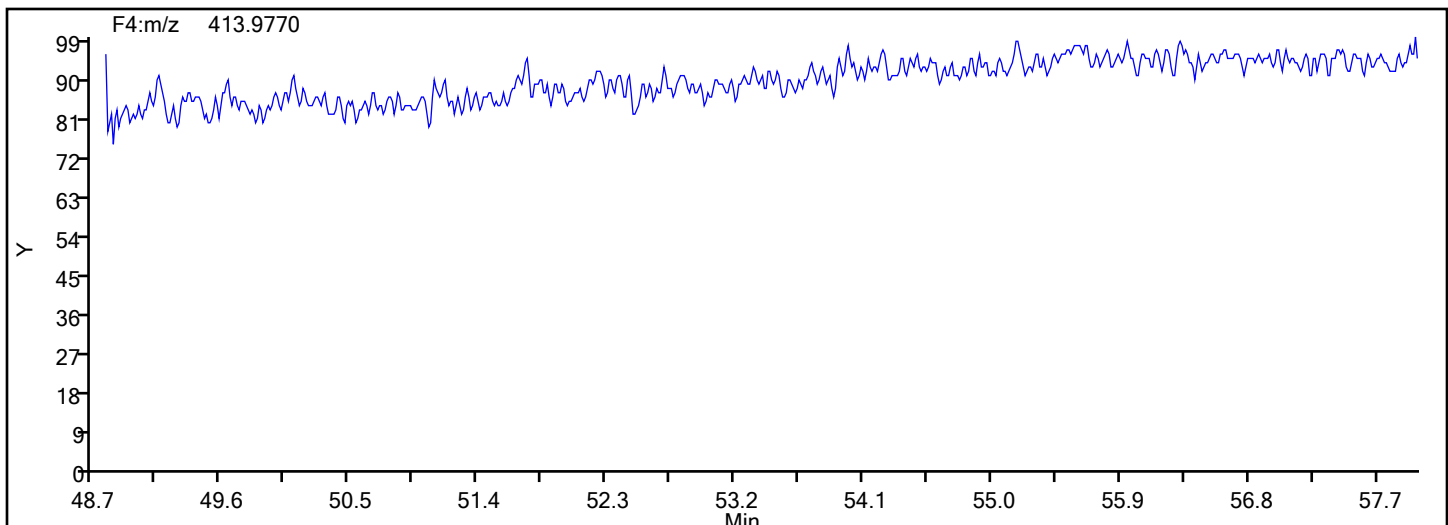
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

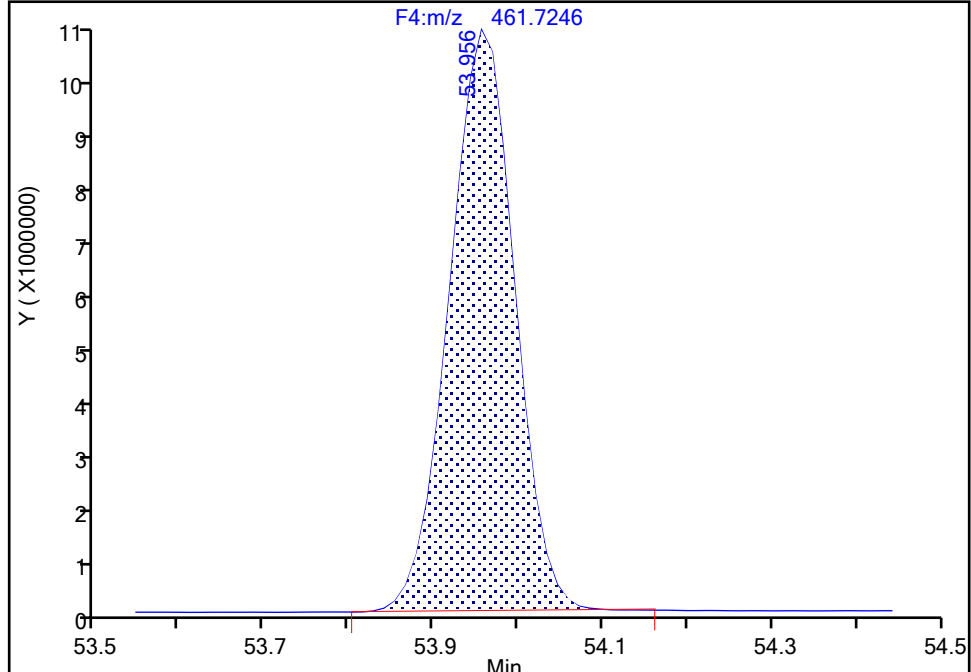
Detector F4(49.20 :57.50)

PCB-206, CAS: 40186-72-9

Signal: 1

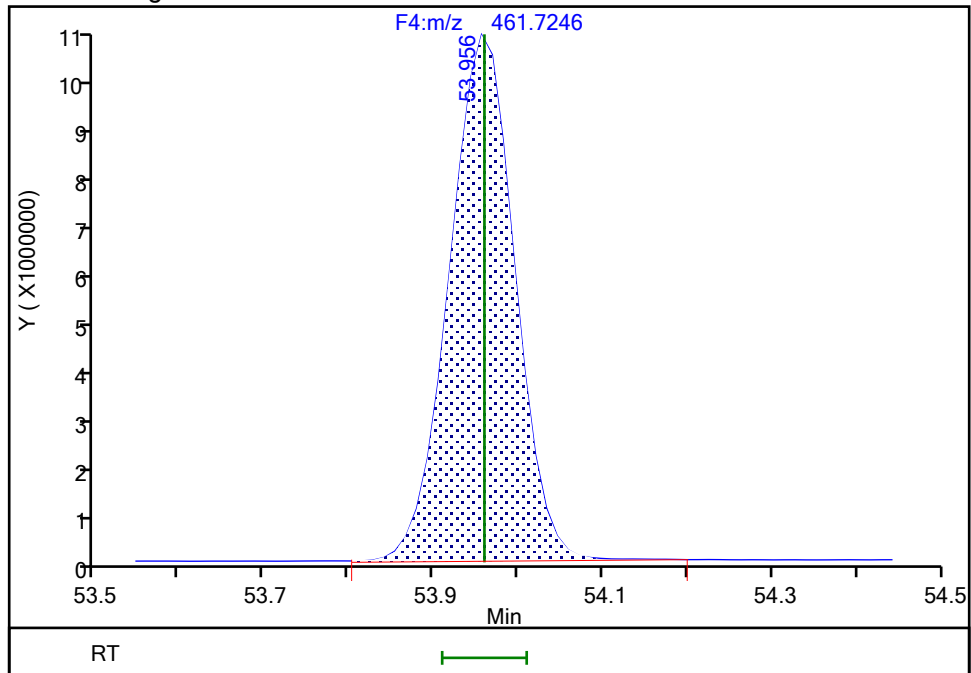
RT: 53.96
Area: 57730691
Amount: 1902.5597
Amount Units: pg/ul

Processing Integration Results



RT: 53.96
Area: 58039089
Amount: 1912.4054
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:12:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

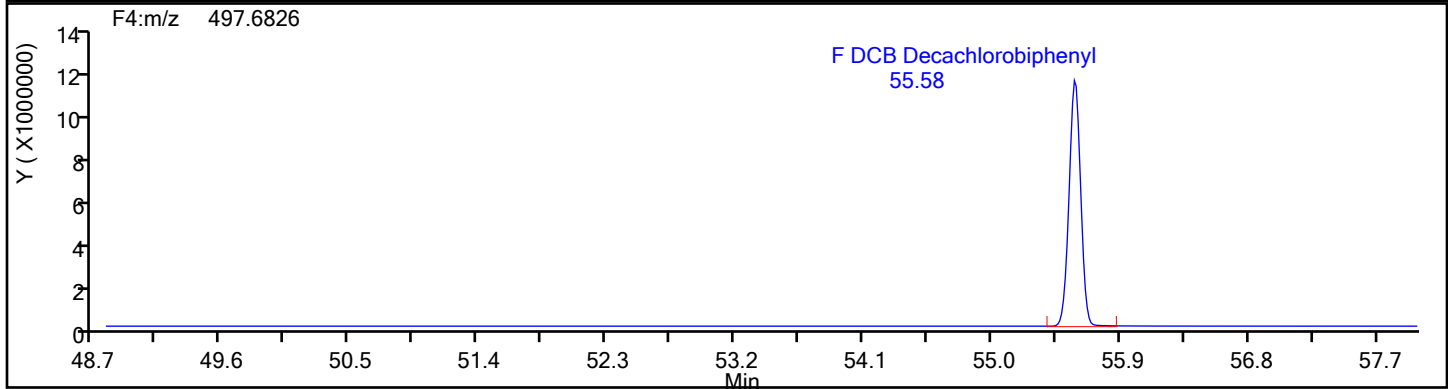
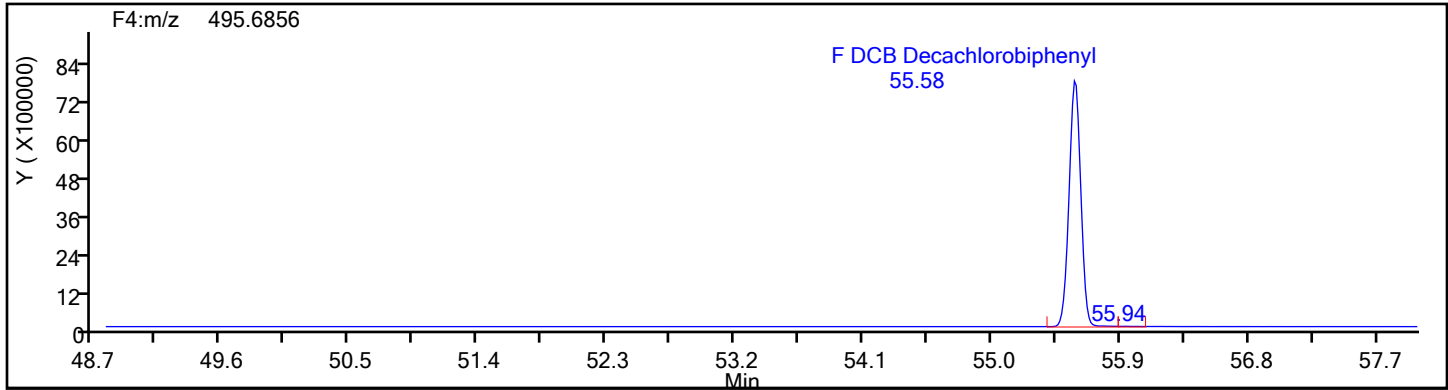
Worklist#: 87130

Sample Line#: 6

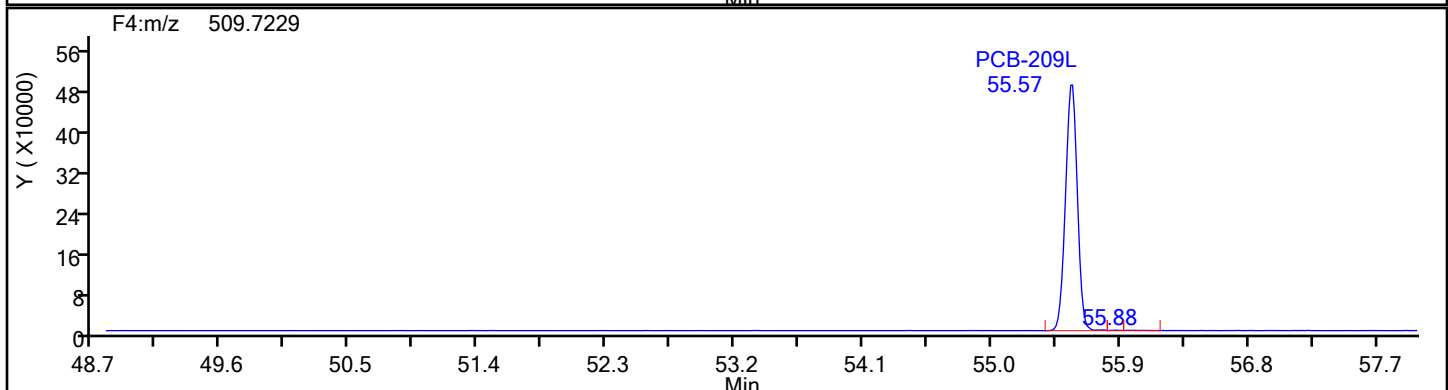
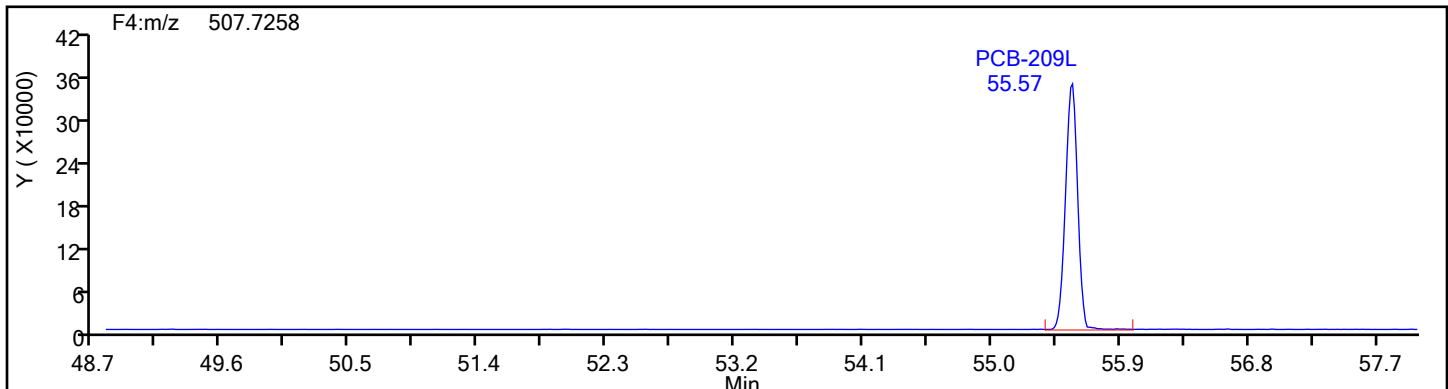
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

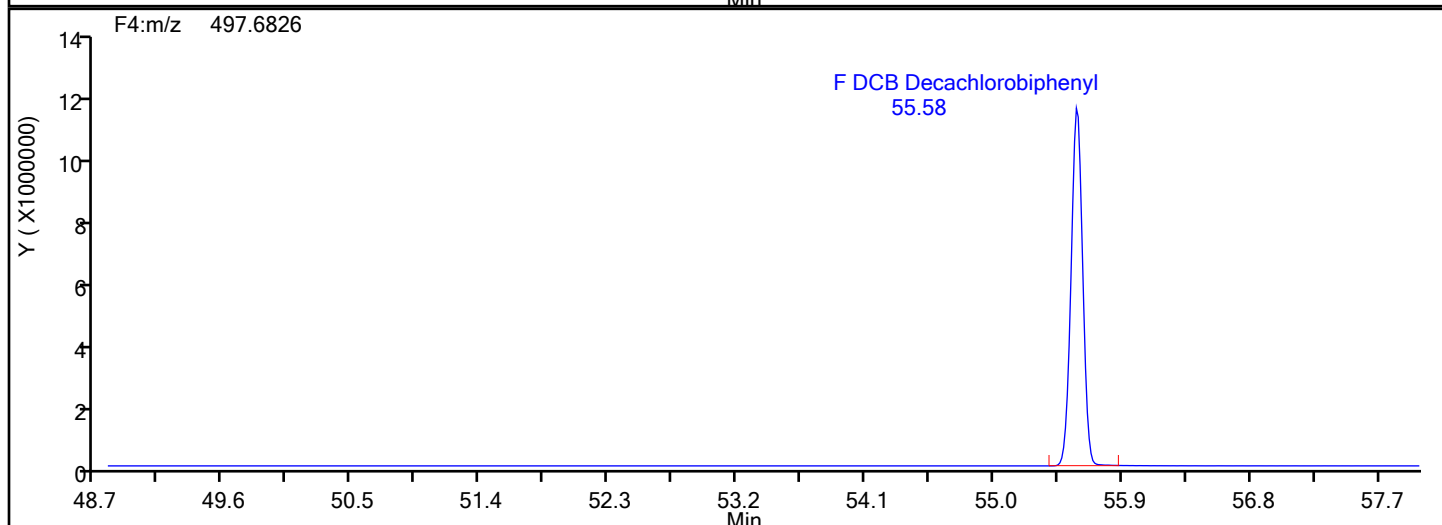
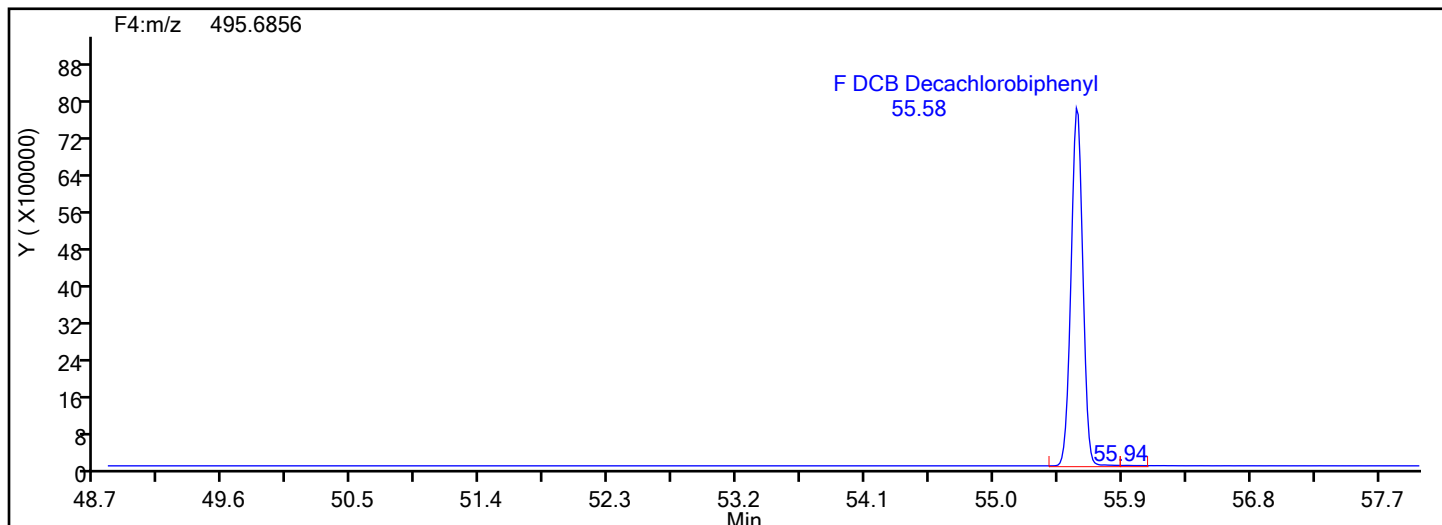
Worklist#: 87130

Sample Line#: 6

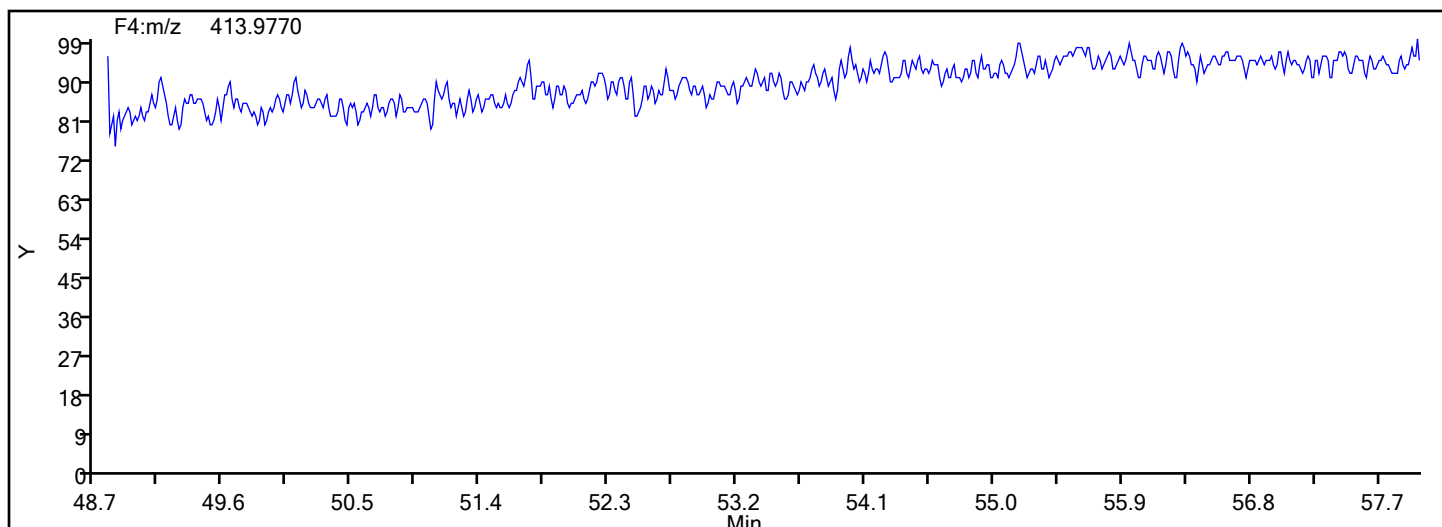
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Calibration

/ DCB Decachlorobiphenyl

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

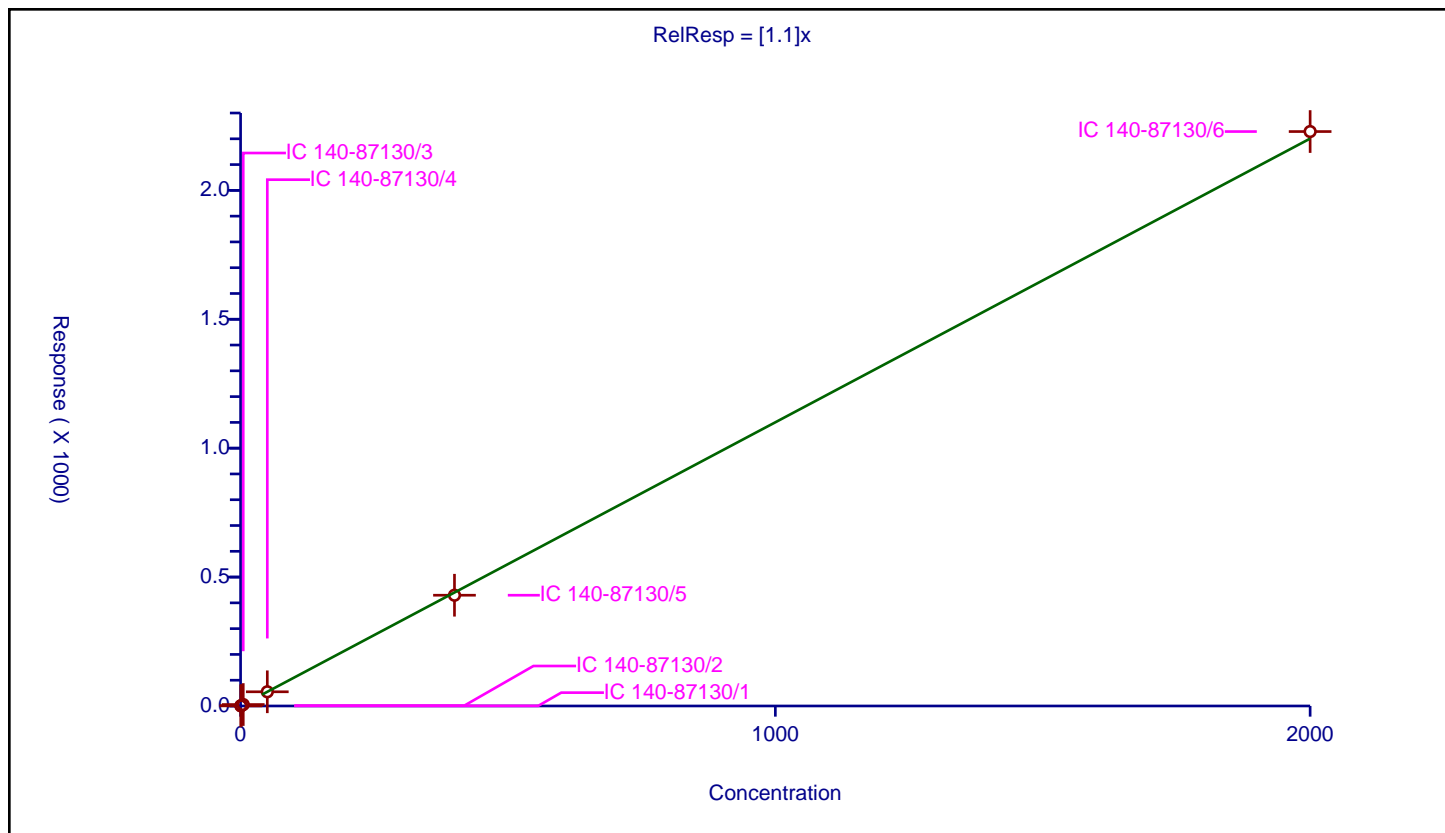
Curve Coefficients

Intercept: 0
 Slope: 1.1

Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.548818	100.0	5278978.0	1.097637	Y
2	IC 140-87130/2	1.0	1.096209	100.0	4729024.0	1.096209	Y
3	IC 140-87130/3	5.0	5.590182	100.0	4889751.0	1.118036	Y
4	IC 140-87130/4	50.0	55.125547	100.0	4723291.0	1.102511	Y
5	IC 140-87130/5	400.0	429.572143	100.0	4867564.0	1.07393	Y
6	IC 140-87130/6	2000.0	2228.125224	100.0	4902169.0	1.114063	Y



Calibration

/ PCB-1

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

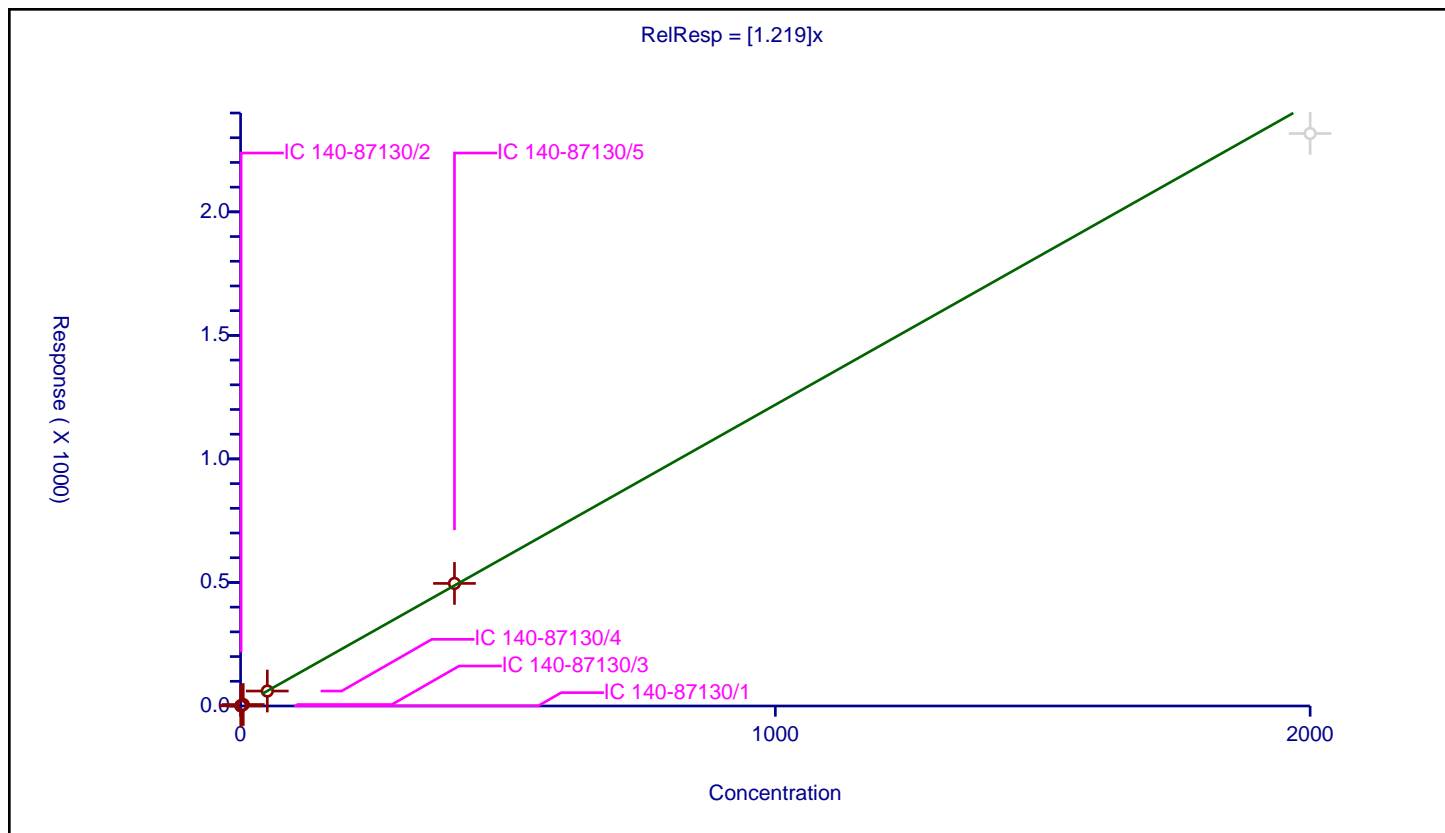
Curve Coefficients

Intercept: 0
Slope: 1.219

Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.597017	100.0	14676977.0	1.194033	Y
2	IC 140-87130/2	1.0	1.250029	100.0	13411930.0	1.250029	Y
3	IC 140-87130/3	5.0	6.006275	100.0	13253788.0	1.201255	Y
4	IC 140-87130/4	50.0	60.496451	100.0	13654287.0	1.209929	Y
5	IC 140-87130/5	400.0	496.144941	100.0	13820437.0	1.240362	Y
6	IC 140-87130/6	2000.0	2317.124057	100.0	14103562.0	1.158562	N



Calibration

/ PCB-10

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

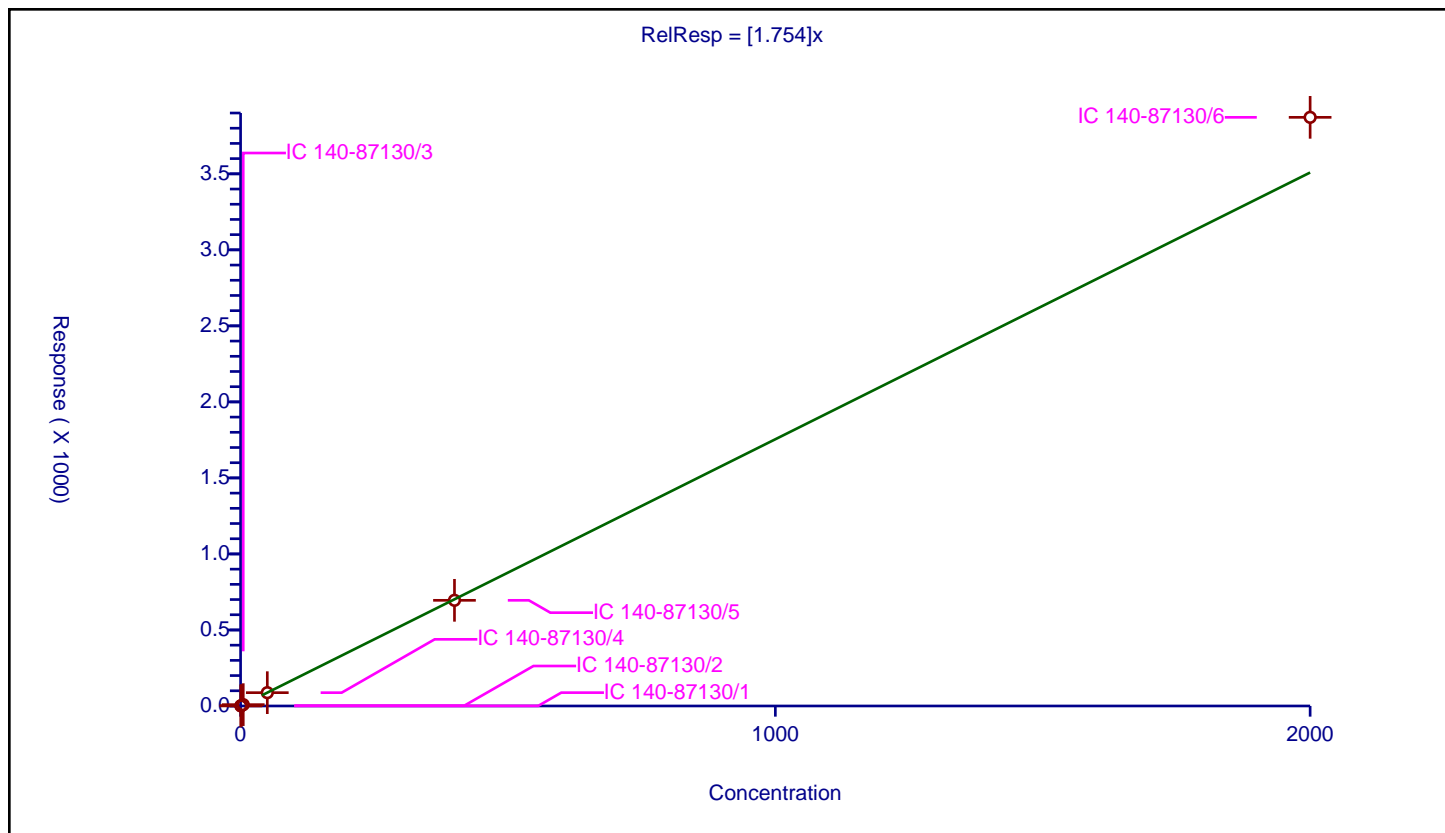
Curve Coefficients

Intercept: 0
 Slope: 1.754

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.821438	100.0	5904521.0	1.642877	Y
2	IC 140-87130/2	1.0	1.670823	100.0	5442766.0	1.670823	Y
3	IC 140-87130/3	5.0	8.937908	100.0	5279032.0	1.787582	Y
4	IC 140-87130/4	50.0	87.549993	100.0	5474214.0	1.751	Y
5	IC 140-87130/5	400.0	695.041767	100.0	5561618.0	1.737604	Y
6	IC 140-87130/6	2000.0	3871.627139	100.0	5672202.0	1.935814	Y



Calibration

/ PCB-100

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

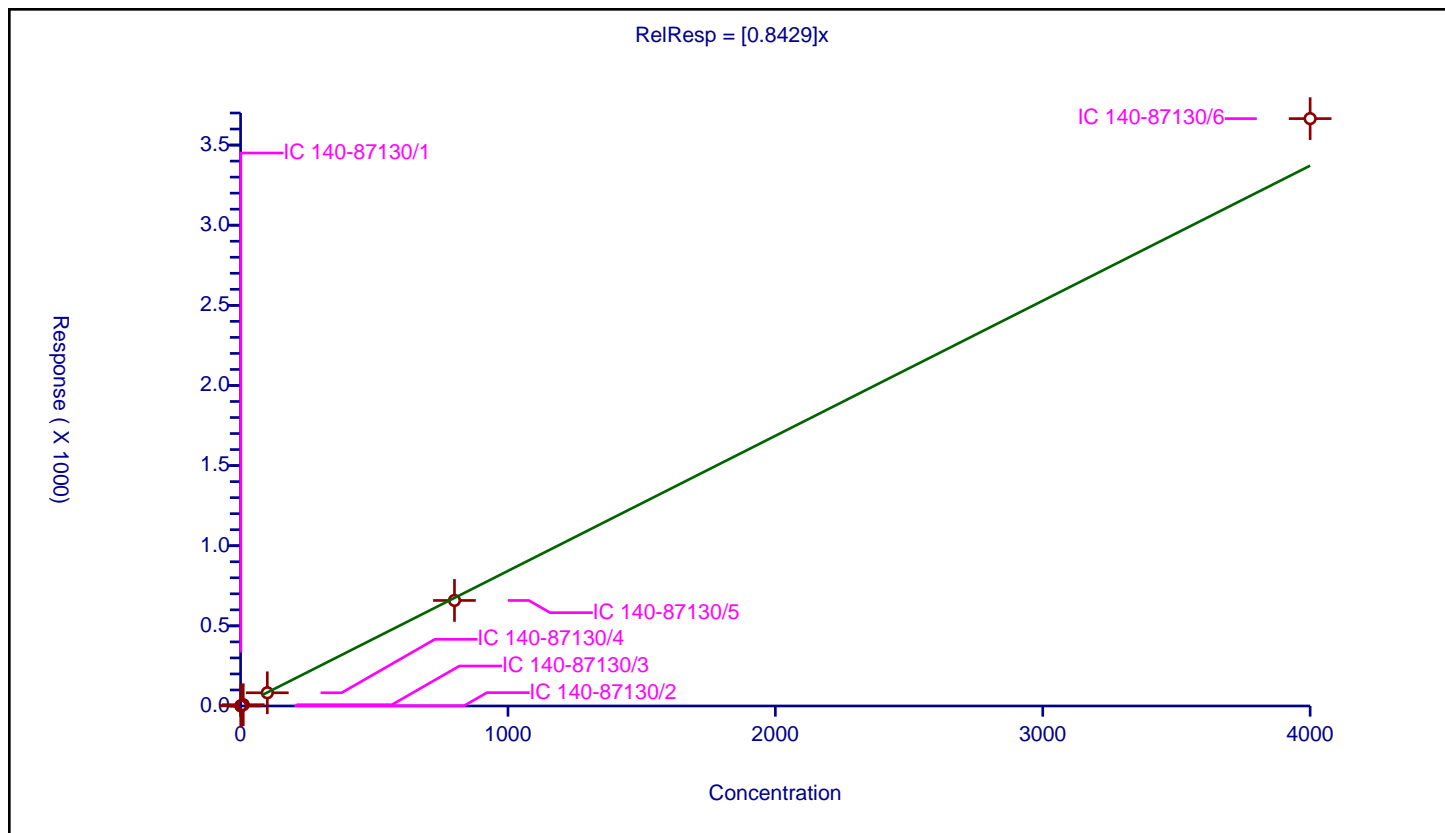
Curve Coefficients

Intercept: 0
 Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-101

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

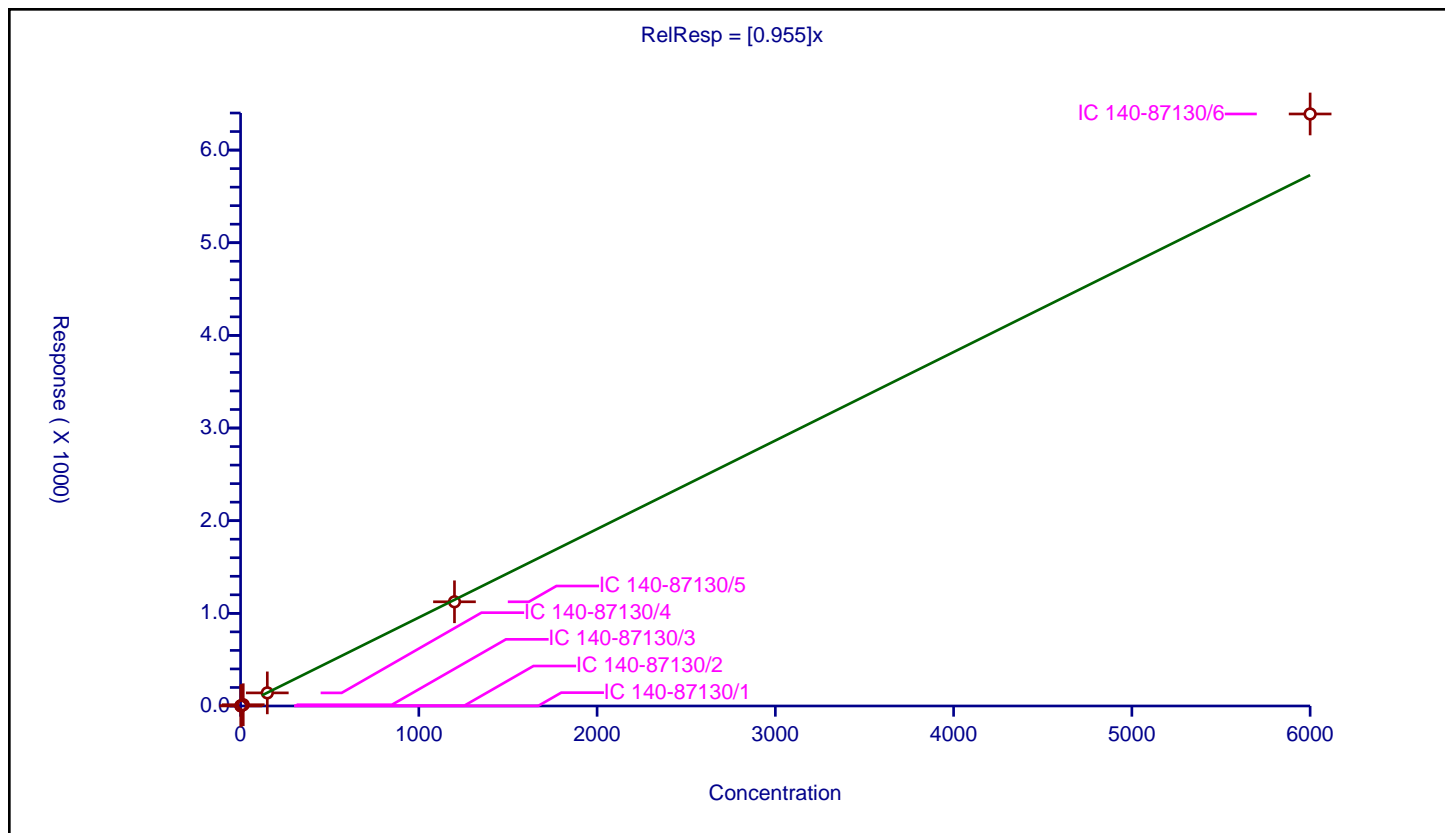
Curve Coefficients

Intercept: 0
 Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-102

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

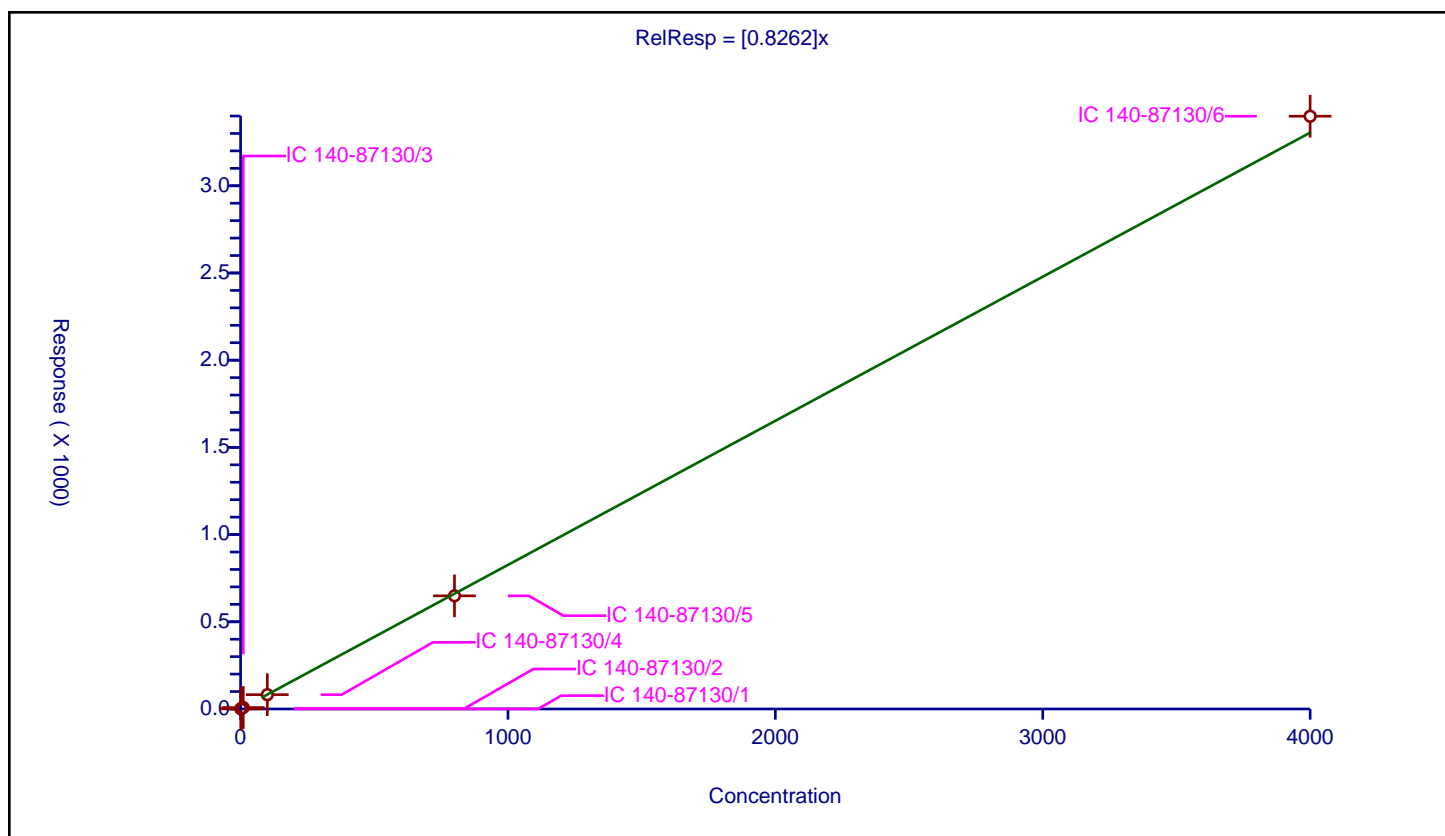
Curve Coefficients

Intercept: 0
Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

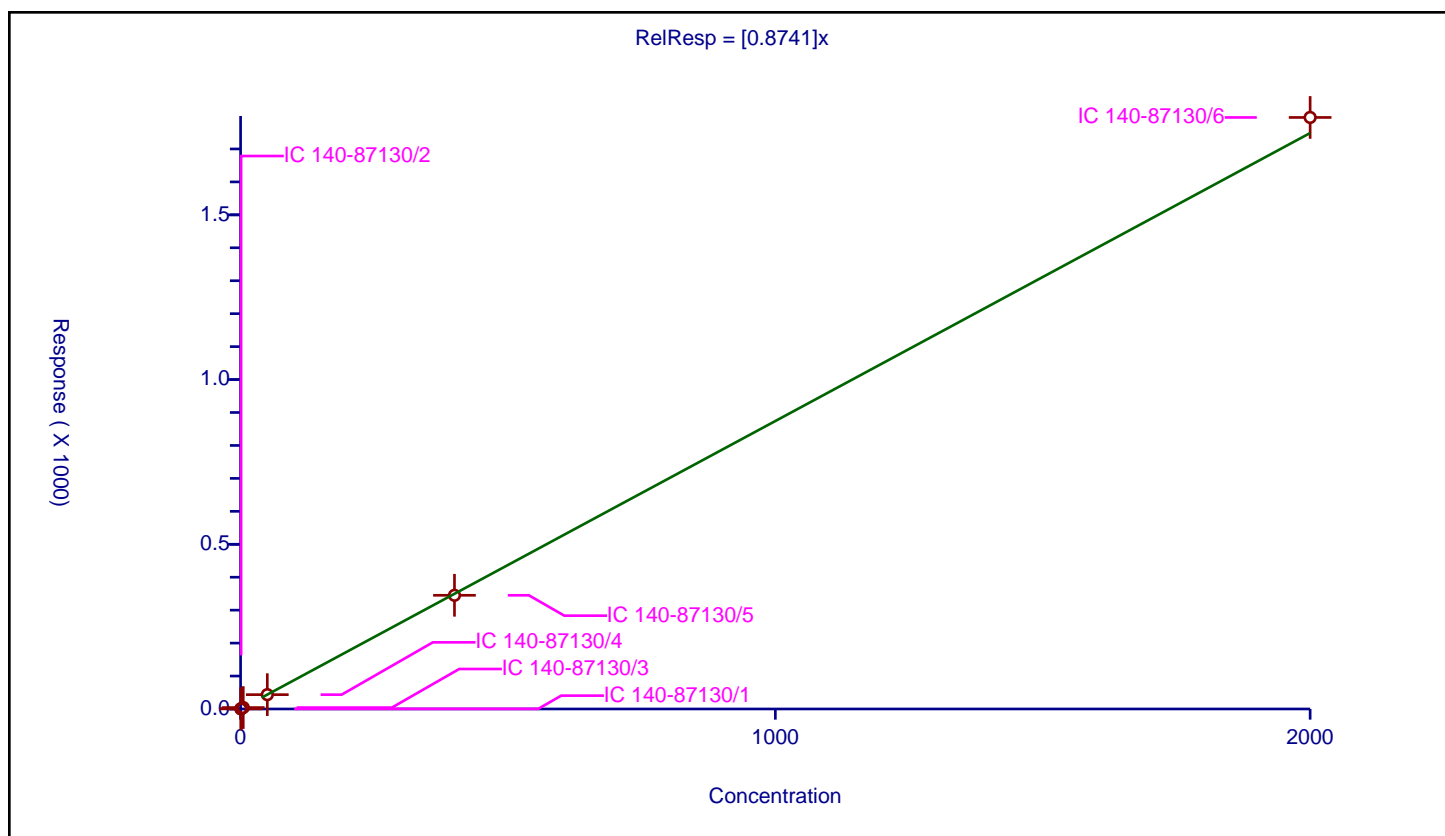
Curve Coefficients

Intercept: 0
Slope: 0.8741

Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436777	100.0	6938320.0	0.873554	Y
2	IC 140-87130/2	1.0	0.875055	100.0	6240748.0	0.875055	Y
3	IC 140-87130/3	5.0	4.323926	100.0	6307301.0	0.864785	Y
4	IC 140-87130/4	50.0	43.540016	100.0	6455349.0	0.8708	Y
5	IC 140-87130/5	400.0	345.117681	100.0	6672003.0	0.862794	Y
6	IC 140-87130/6	2000.0	1795.657146	100.0	6975966.0	0.897829	Y



Calibration

/ PCB-104

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

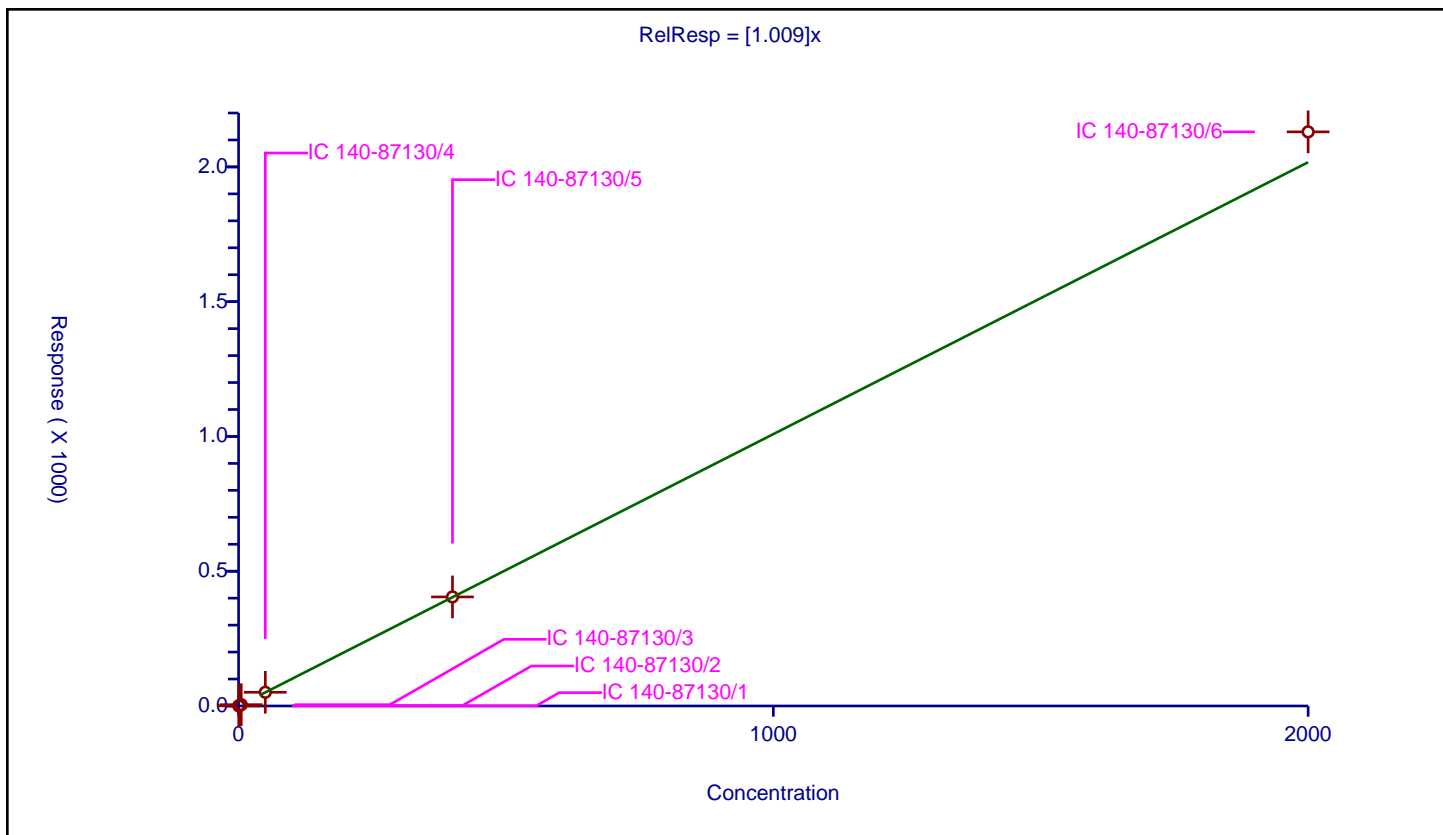
Curve Coefficients

Intercept: 0
 Slope: 1.009

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.500899	100.0	6938320.0	1.001799	Y
2	IC 140-87130/2	1.0	0.985907	100.0	6240748.0	0.985907	Y
3	IC 140-87130/3	5.0	4.852313	100.0	6307301.0	0.970463	Y
4	IC 140-87130/4	50.0	50.879217	100.0	6455349.0	1.017584	Y
5	IC 140-87130/5	400.0	404.55307	100.0	6672003.0	1.011383	Y
6	IC 140-87130/6	2000.0	2130.089396	100.0	6975966.0	1.065045	Y



Calibration

/ PCB-105

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

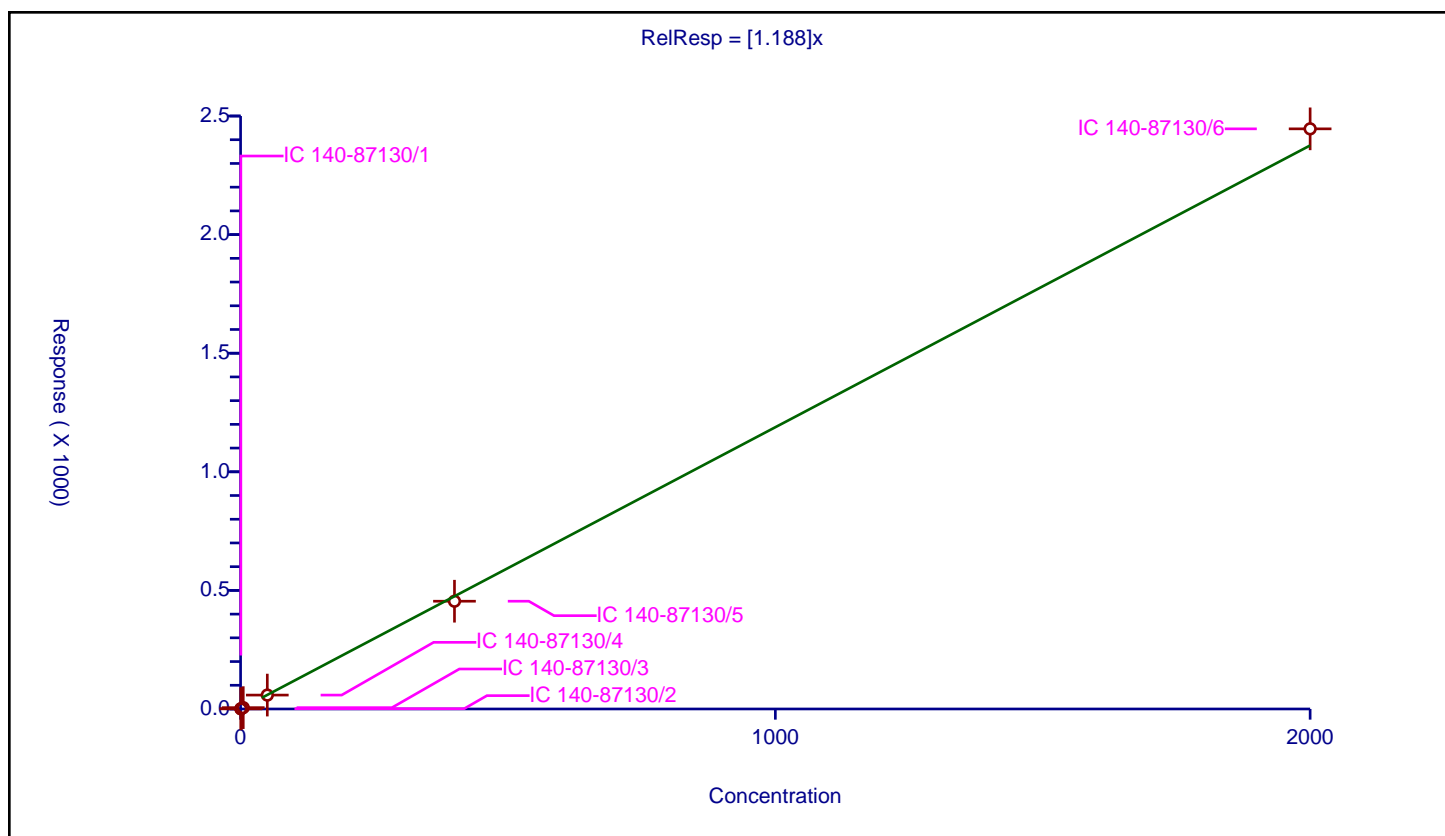
Curve Coefficients

Intercept: 0
 Slope: 1.188

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.643369	100.0	10177357.0	1.286739	Y
2	IC 140-87130/2	1.0	1.18048	100.0	9101468.0	1.18048	Y
3	IC 140-87130/3	5.0	5.649296	100.0	9087875.0	1.129859	Y
4	IC 140-87130/4	50.0	58.580131	100.0	9433900.0	1.171603	Y
5	IC 140-87130/5	400.0	454.320655	100.0	10096861.0	1.135802	Y
6	IC 140-87130/6	2000.0	2445.973658	100.0	10771838.0	1.222987	Y



Calibration

/ PCB-106

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

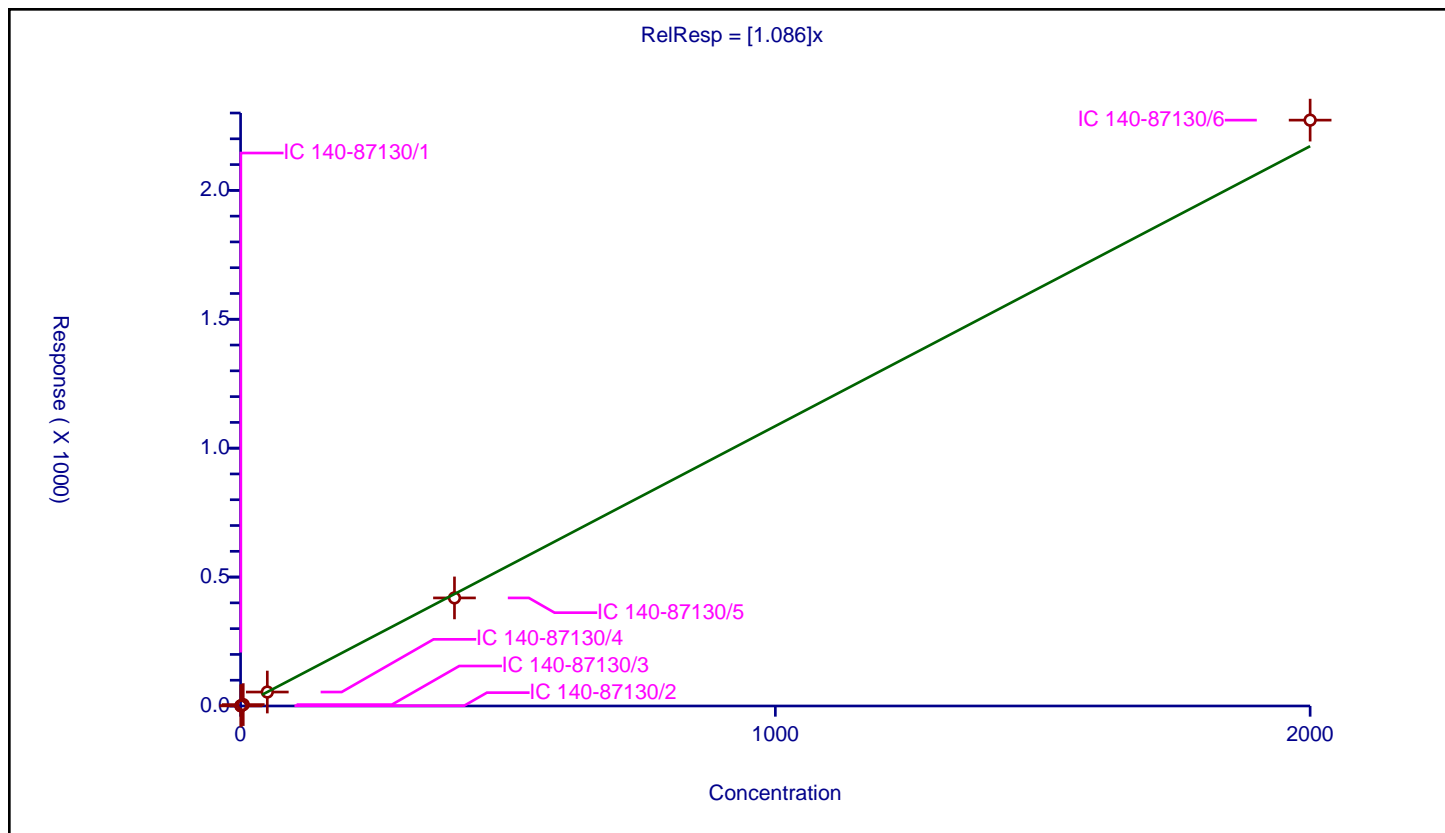
Curve Coefficients

Intercept: 0
 Slope: 1.086

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.552515	100.0	10371480.0	1.10503	Y
2	IC 140-87130/2	1.0	1.066747	100.0	9073751.0	1.066747	Y
3	IC 140-87130/3	5.0	5.379468	100.0	9321962.0	1.075894	Y
4	IC 140-87130/4	50.0	54.09954	100.0	9501201.0	1.081991	Y
5	IC 140-87130/5	400.0	419.198391	100.0	10377703.0	1.047996	Y
6	IC 140-87130/6	2000.0	2272.377735	100.0	11406816.0	1.136189	Y



Calibration

/ PCB-107

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

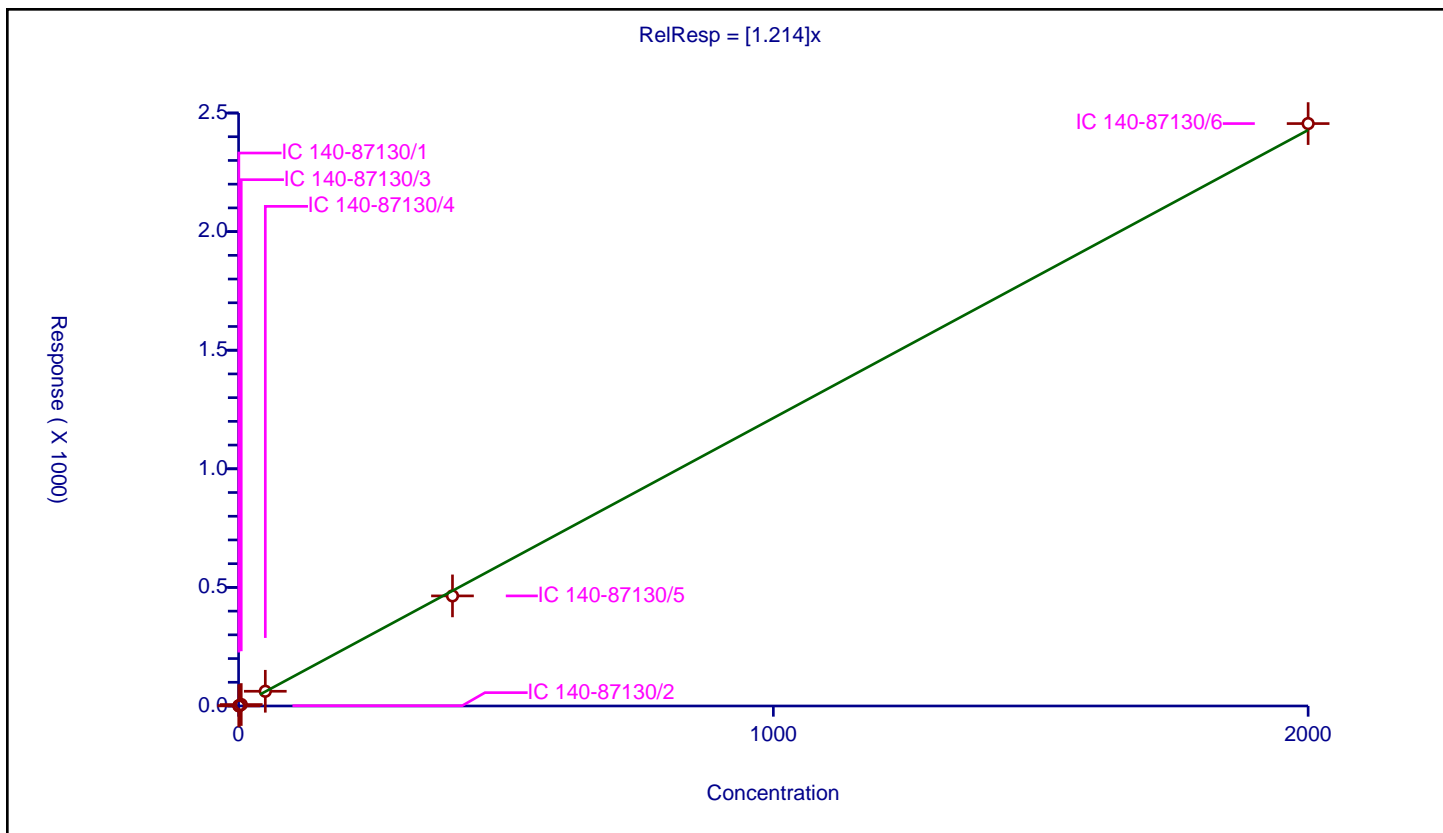
Curve Coefficients

Intercept: 0
Slope: 1.214

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.644141	100.0	10371480.0	1.288283	Y
2	IC 140-87130/2	1.0	1.130128	100.0	9073751.0	1.130128	Y
3	IC 140-87130/3	5.0	6.181971	100.0	9321962.0	1.236394	Y
4	IC 140-87130/4	50.0	62.070206	100.0	9501201.0	1.241404	Y
5	IC 140-87130/5	400.0	464.16233	100.0	10377703.0	1.160406	Y
6	IC 140-87130/6	2000.0	2455.446673	100.0	11406816.0	1.227723	Y



Calibration

/ PCB-108

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

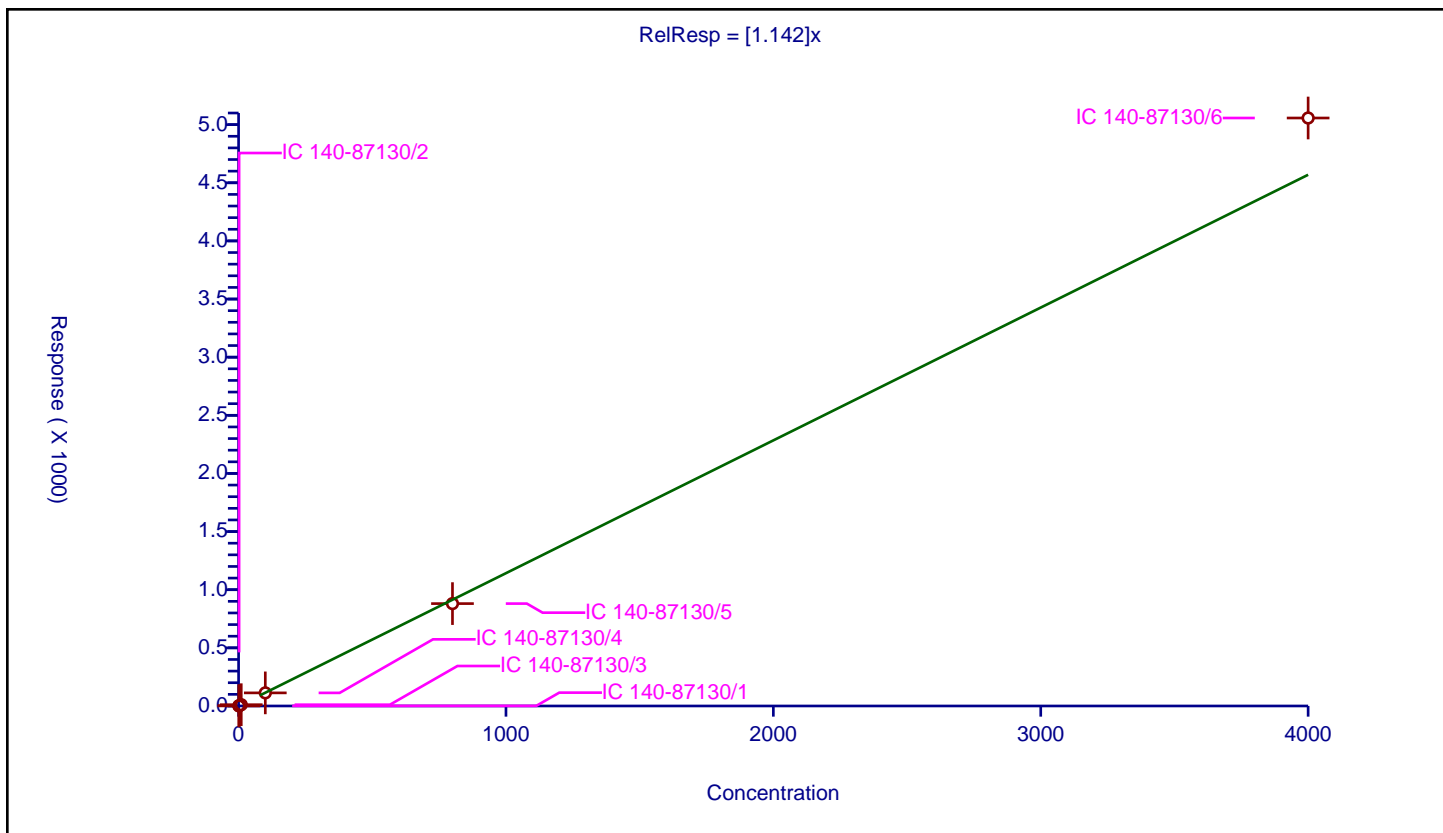
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Calibration

/ PCB-108/124

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

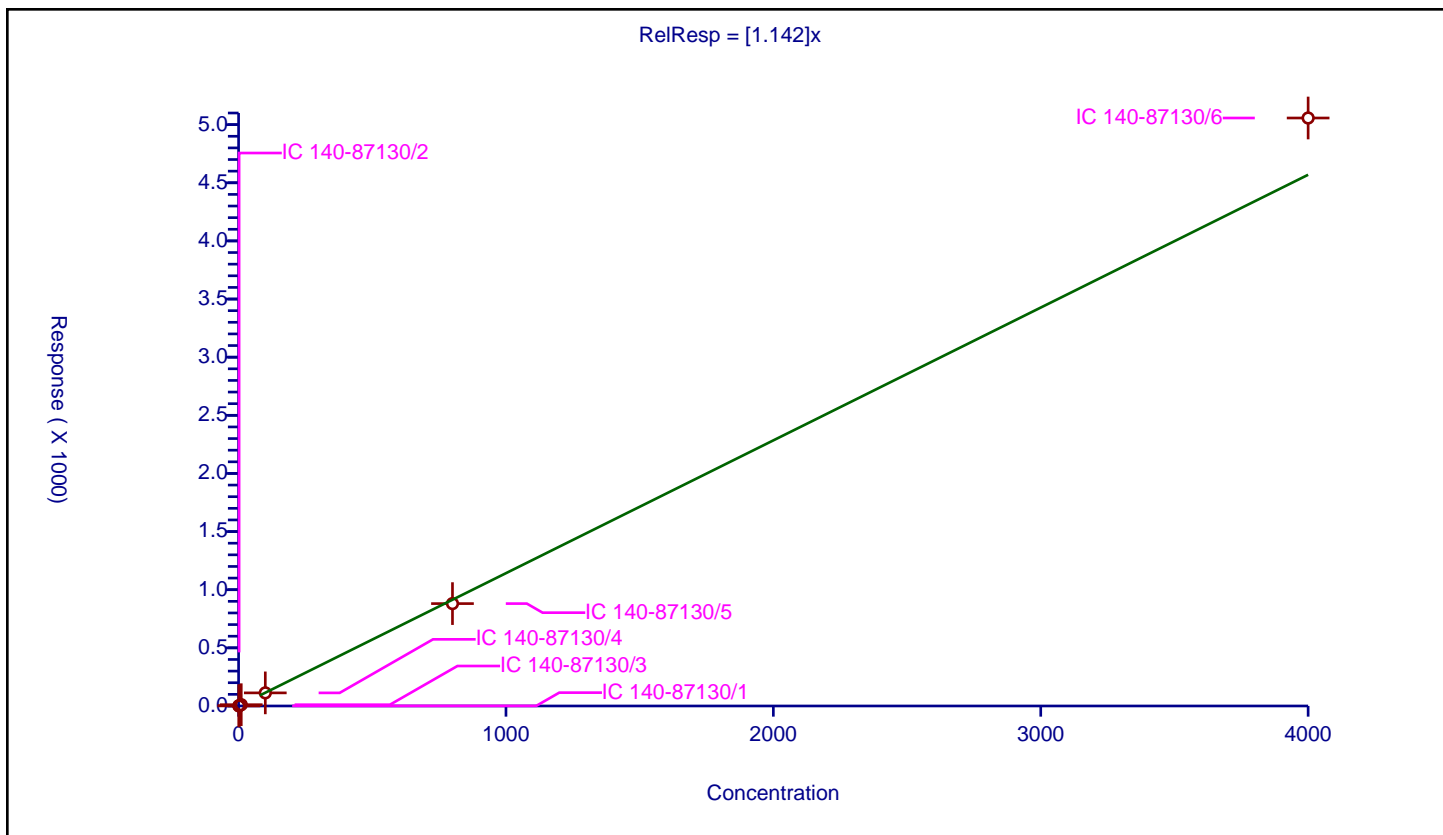
Curve Coefficients

Intercept: 0
Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

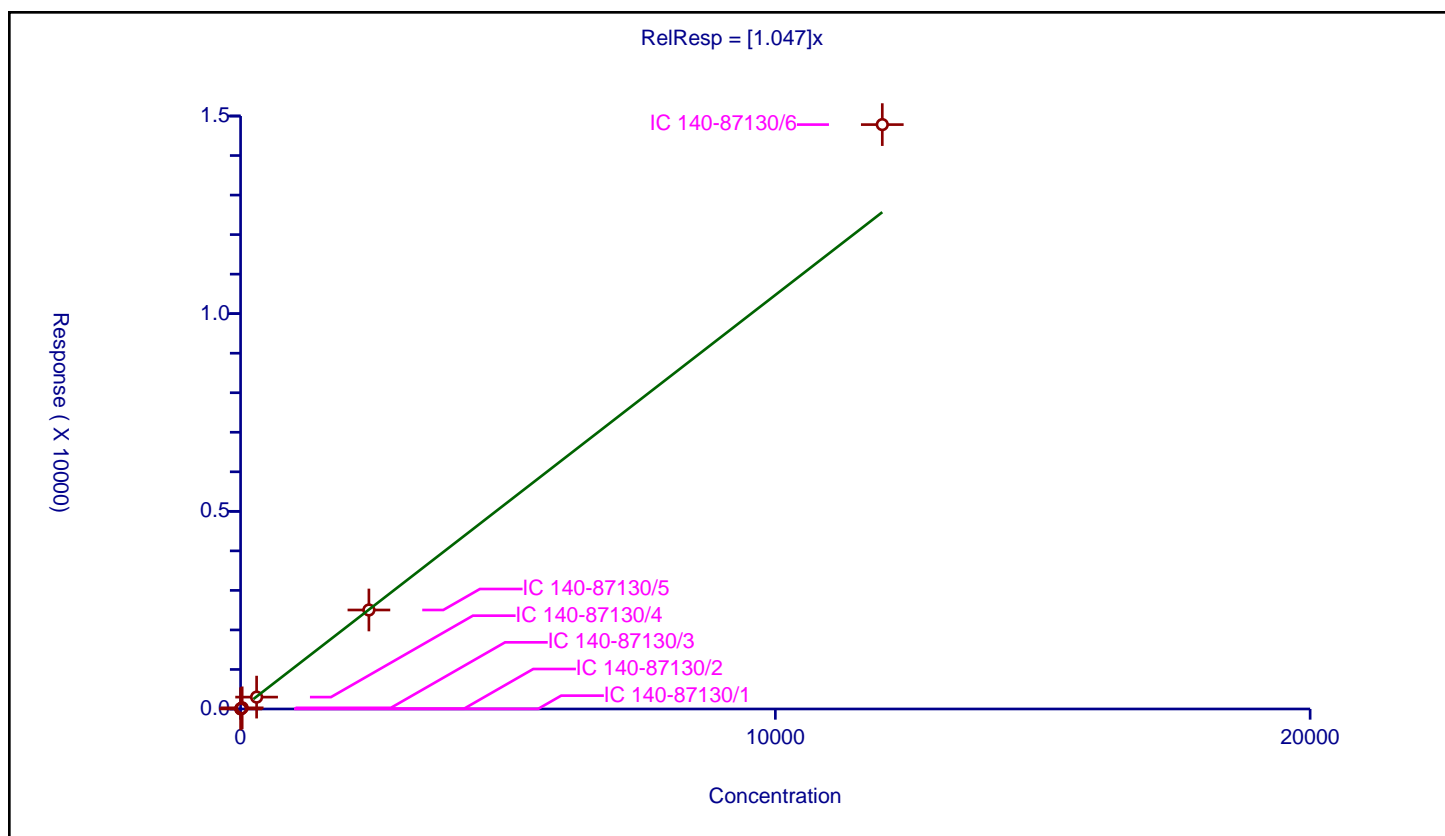
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-11

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

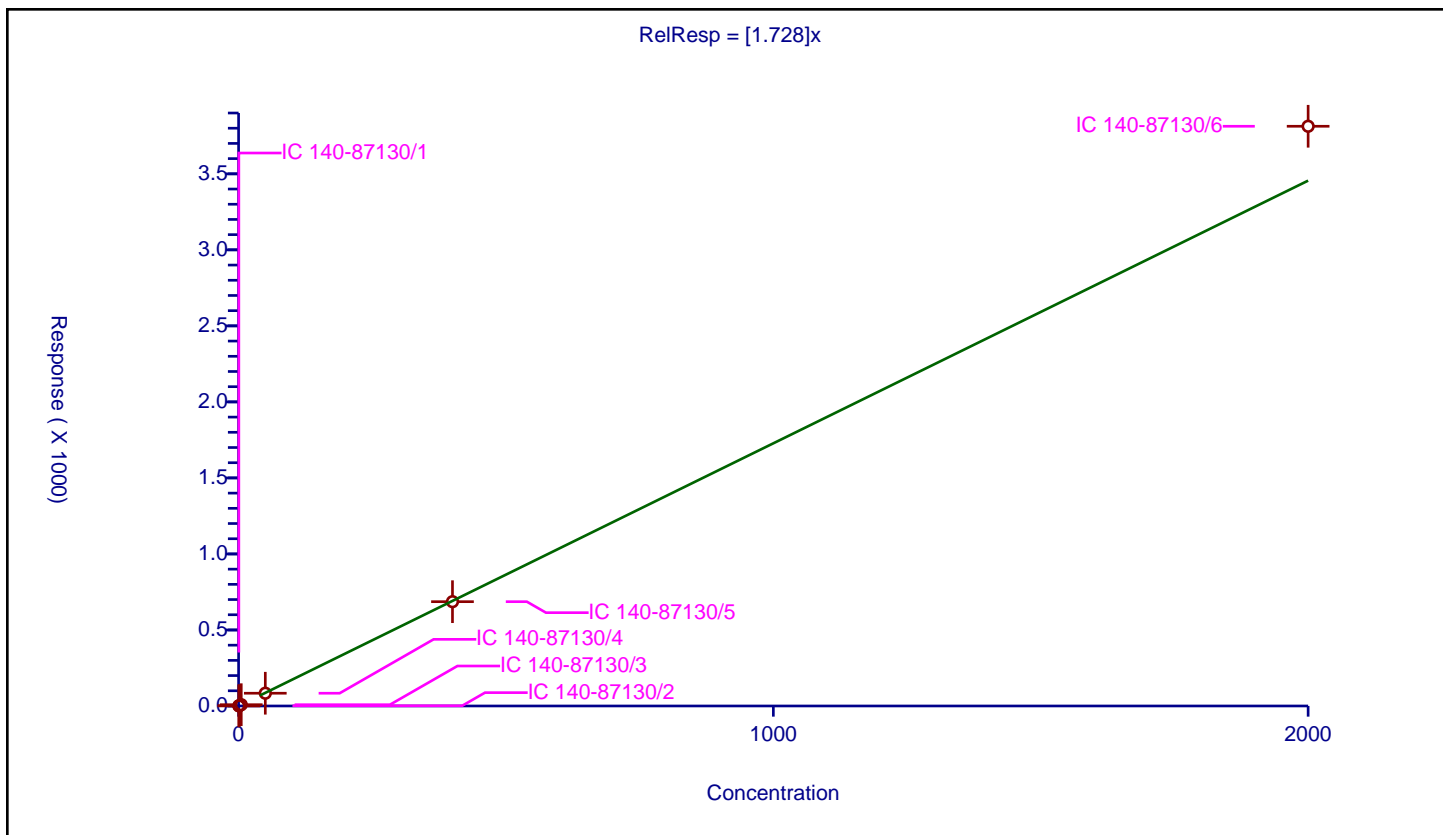
Curve Coefficients

Intercept: 0
Slope: 1.728

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.905984	100.0	5904521.0	1.811967	Y
2	IC 140-87130/2	1.0	1.53648	100.0	5442766.0	1.53648	Y
3	IC 140-87130/3	5.0	8.577671	100.0	5279032.0	1.715534	Y
4	IC 140-87130/4	50.0	84.007238	100.0	5474214.0	1.680145	Y
5	IC 140-87130/5	400.0	686.009431	100.0	5561618.0	1.715024	Y
6	IC 140-87130/6	2000.0	3812.897707	100.0	5672202.0	1.906449	Y



Calibration

/ PCB-110

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

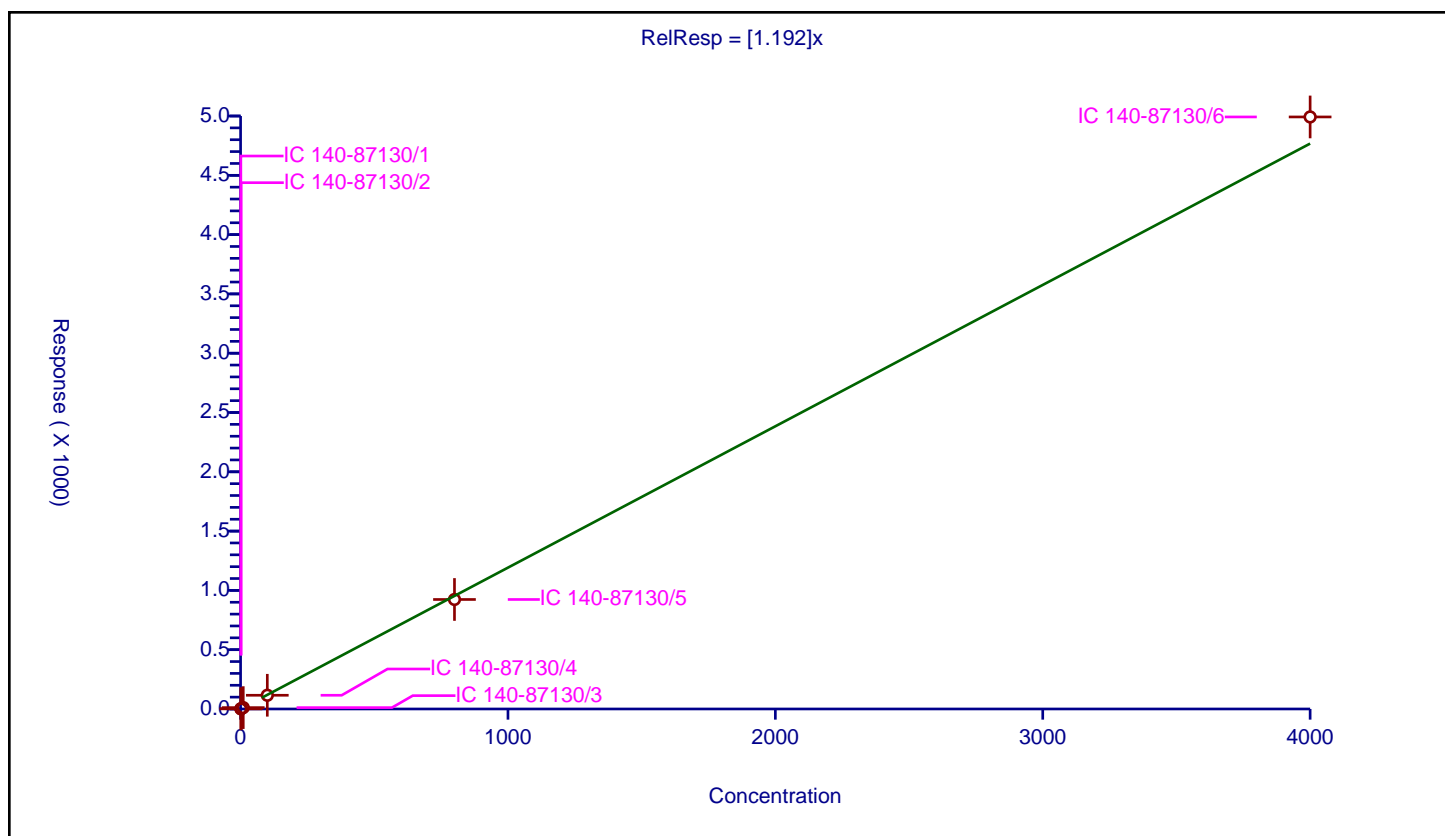
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Calibration

/ PCB-110/115

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

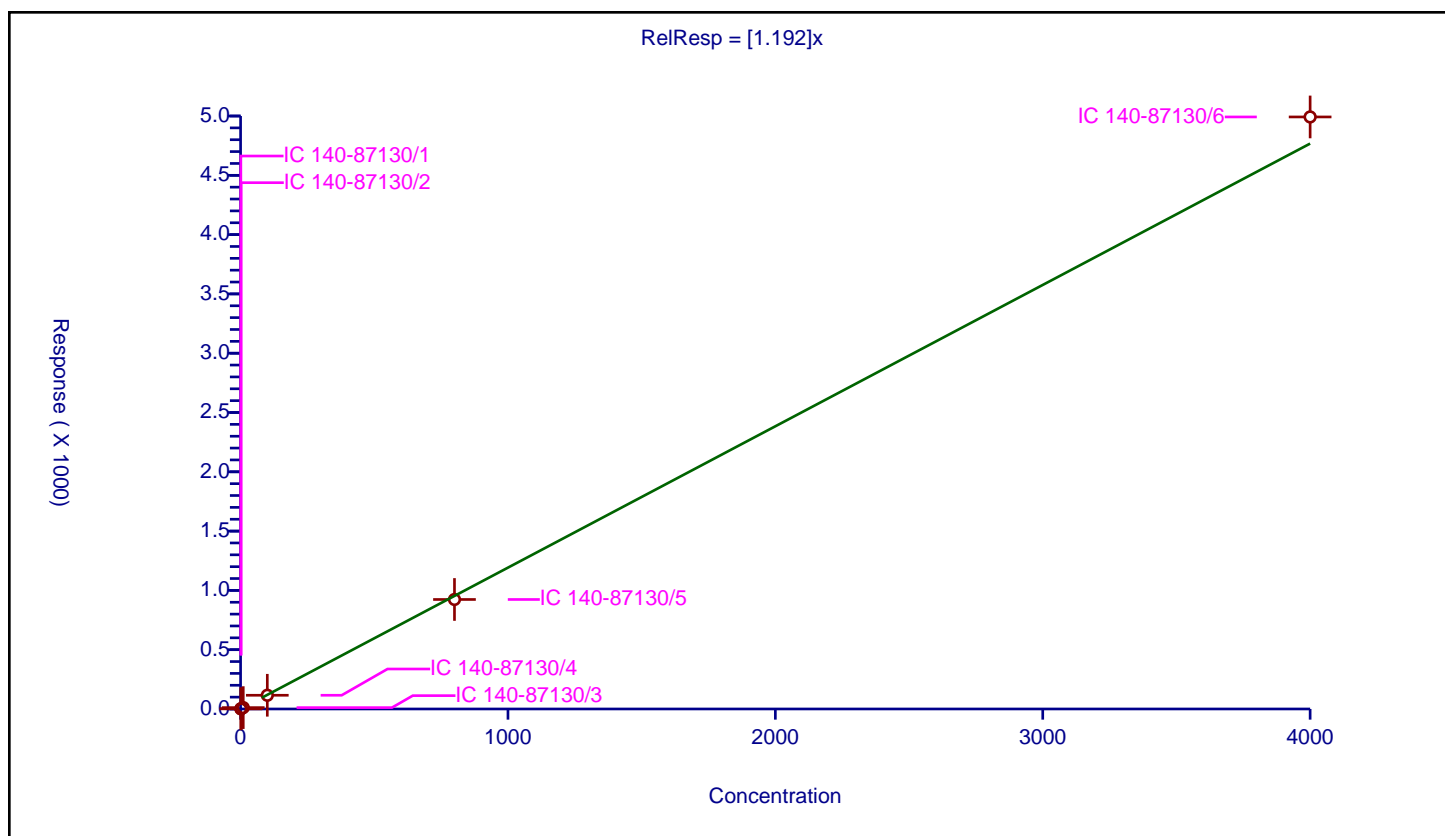
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Calibration

/ PCB-111

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

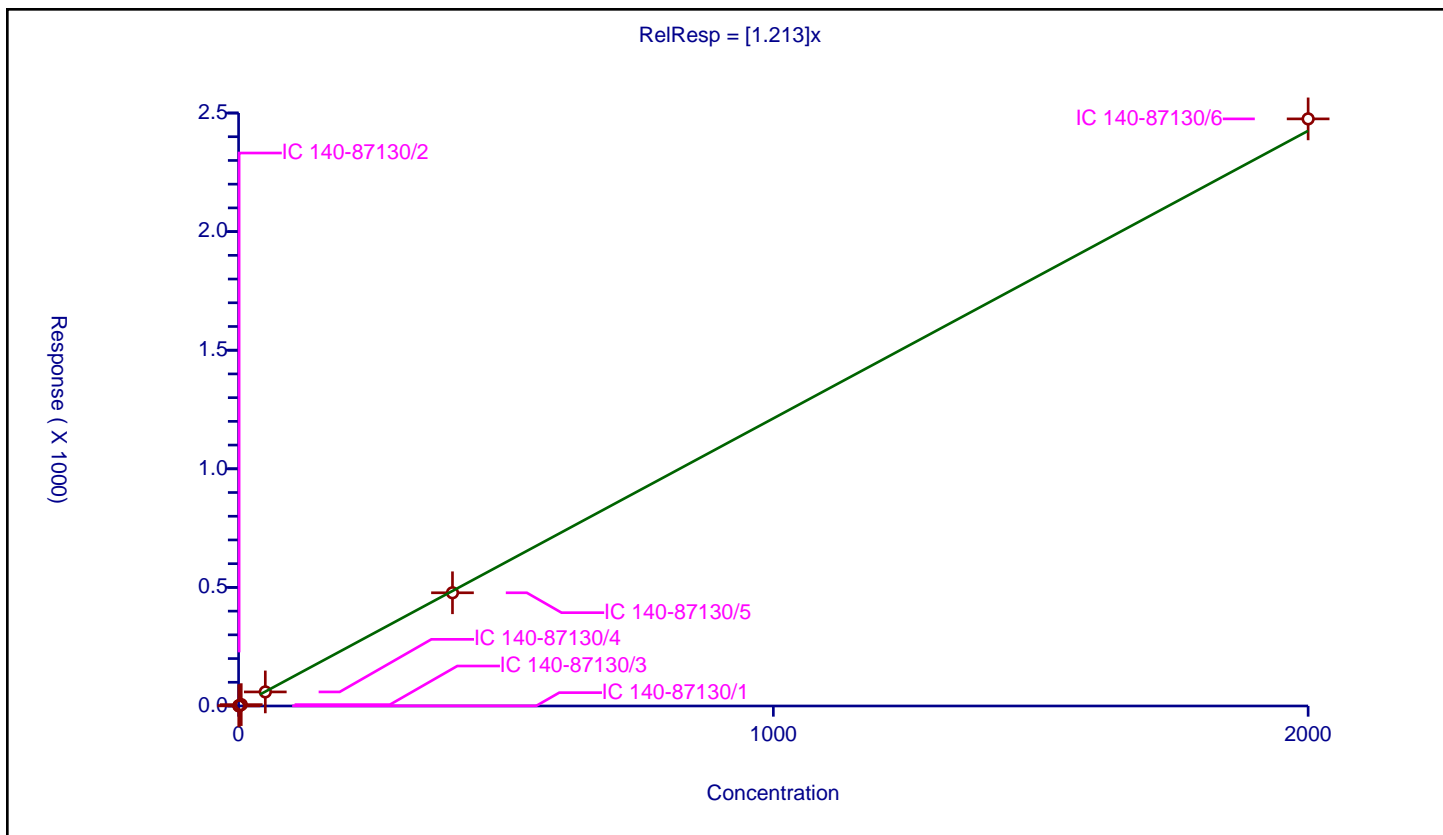
Curve Coefficients

Intercept: 0
 Slope: 1.213

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.579305	100.0	6938320.0	1.158609	Y
2	IC 140-87130/2	1.0	1.336875	100.0	6240748.0	1.336875	Y
3	IC 140-87130/3	5.0	5.817496	100.0	6307301.0	1.163499	Y
4	IC 140-87130/4	50.0	59.254674	100.0	6455349.0	1.185093	Y
5	IC 140-87130/5	400.0	477.365927	100.0	6672003.0	1.193415	Y
6	IC 140-87130/6	2000.0	2475.269203	100.0	6975966.0	1.237635	Y



Calibration

/ PCB-111L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

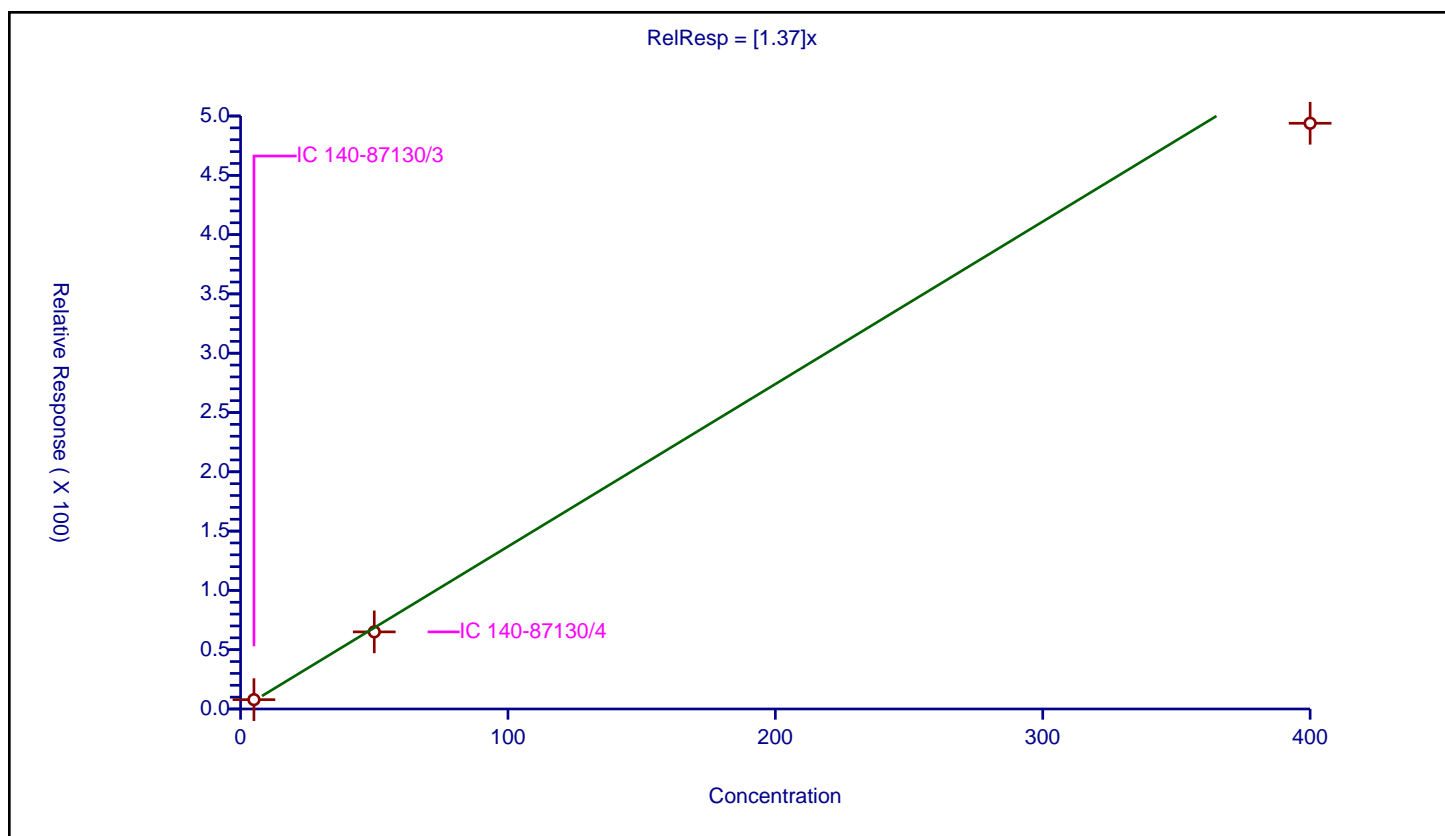
Curve Coefficients

Intercept: 0
 Slope: 1.37

Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	7.872484	100.0	5008775.0	1.574497	Y
2	IC 140-87130/4	50.0	65.024134	100.0	5228368.0	1.300483	Y
3	IC 140-87130/5	400.0	493.88691	100.0	5633550.0	1.234717	Y



Calibration

/ PCB-112

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

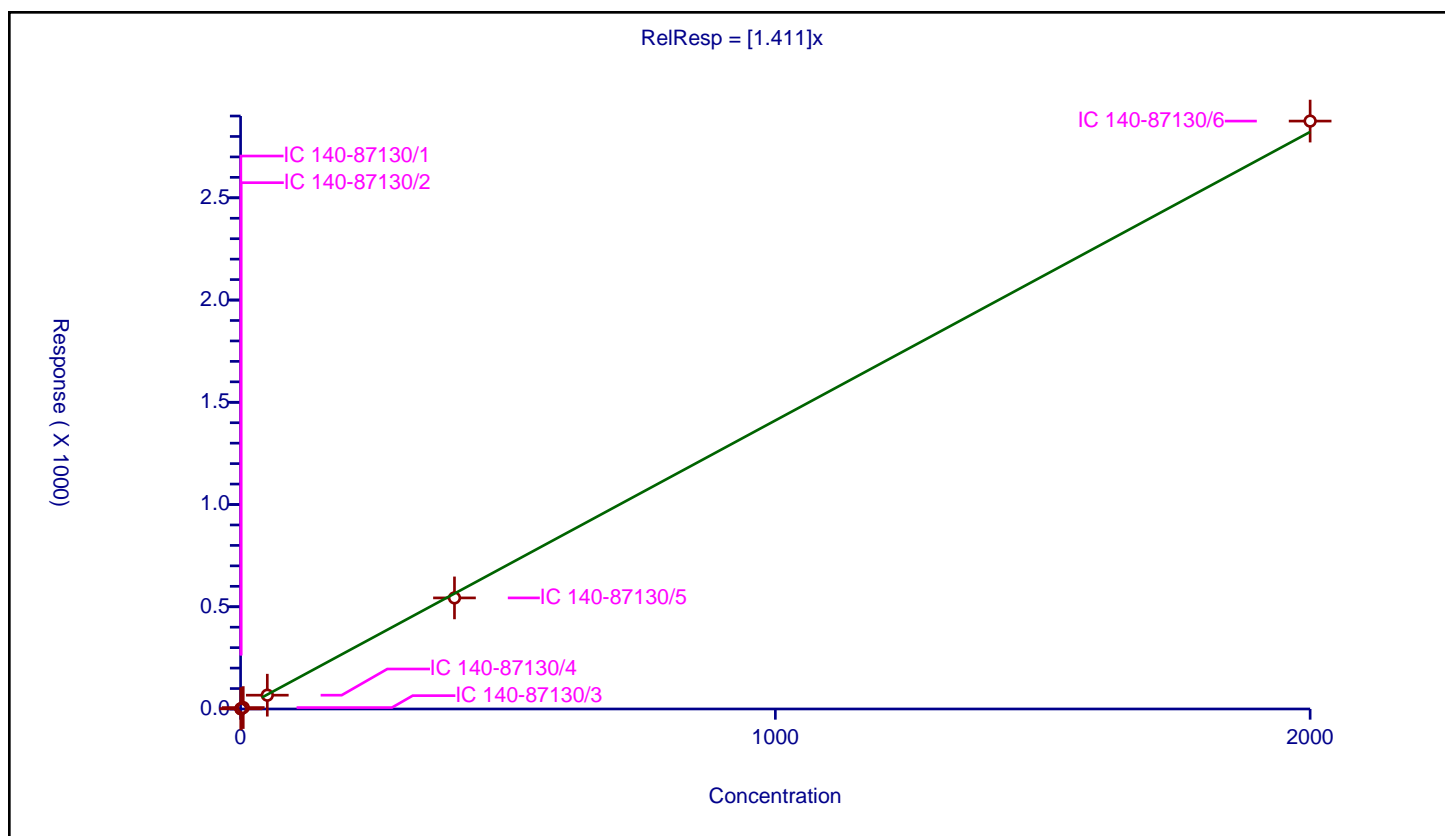
Curve Coefficients

Intercept: 0
Slope: 1.411

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.722279	100.0	6938320.0	1.444557	Y
2	IC 140-87130/2	1.0	1.488507	100.0	6240748.0	1.488507	Y
3	IC 140-87130/3	5.0	6.936121	100.0	6307301.0	1.387224	Y
4	IC 140-87130/4	50.0	67.531562	100.0	6455349.0	1.350631	Y
5	IC 140-87130/5	400.0	543.236282	100.0	6672003.0	1.358091	Y
6	IC 140-87130/6	2000.0	2875.272113	100.0	6975966.0	1.437636	Y



Calibration

/ PCB-113

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

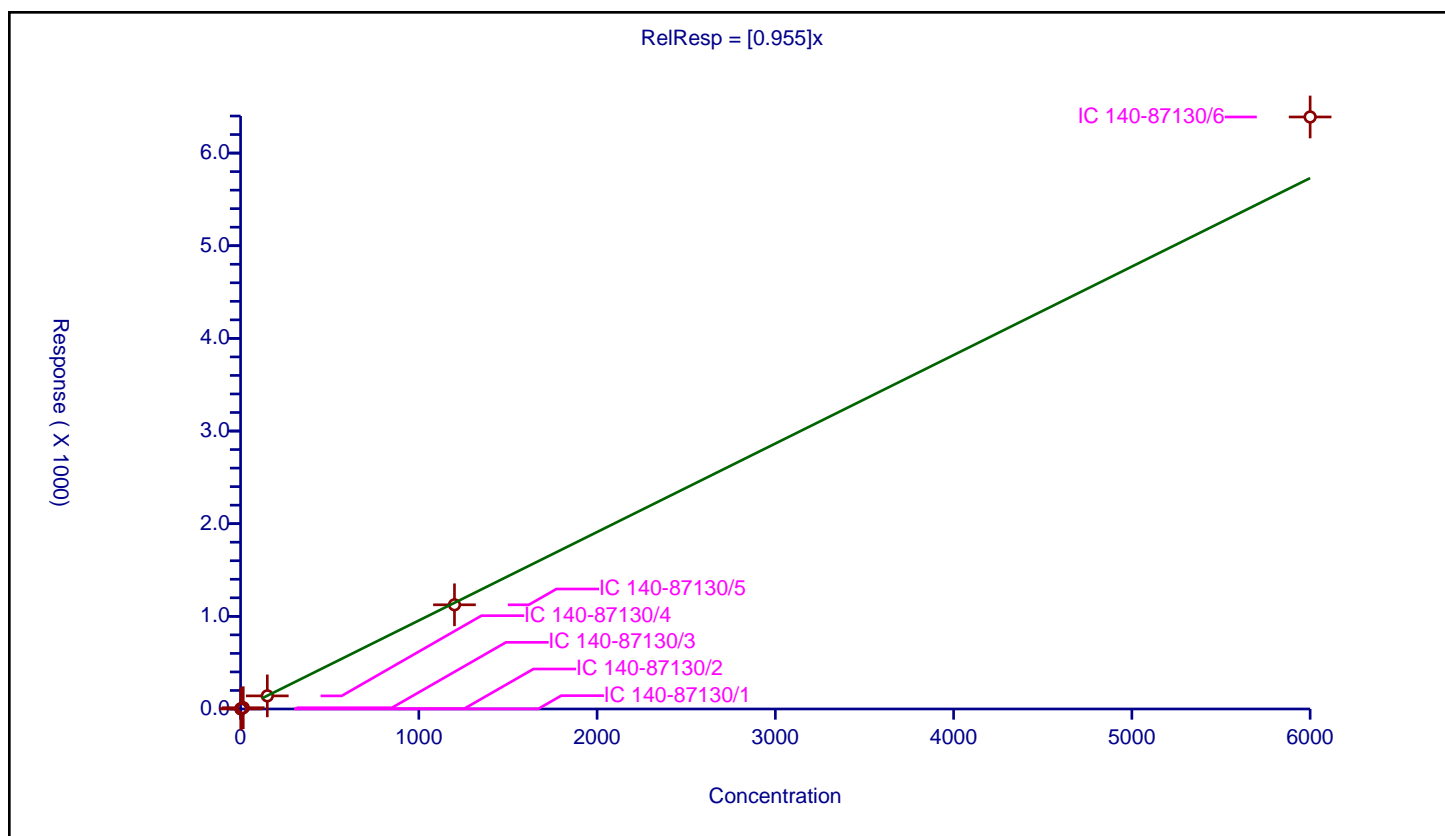
Curve Coefficients

Intercept: 0
 Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-114

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

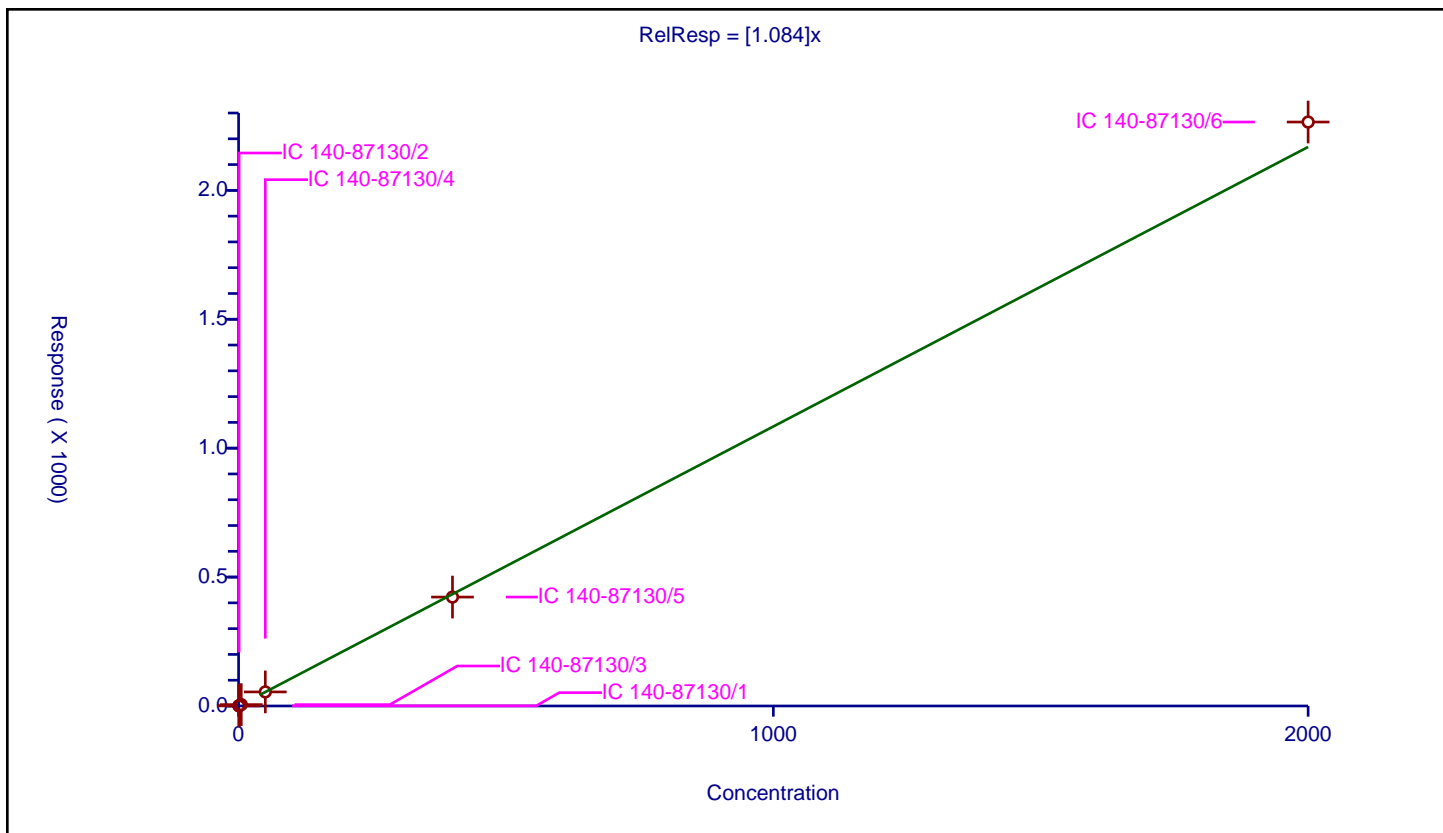
Curve Coefficients

Intercept: 0
 Slope: 1.084

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530477	100.0	10504311.0	1.060955	Y
2	IC 140-87130/2	1.0	1.106681	100.0	9705413.0	1.106681	Y
3	IC 140-87130/3	5.0	5.290959	100.0	9387618.0	1.058192	Y
4	IC 140-87130/4	50.0	54.520315	100.0	9734953.0	1.090406	Y
5	IC 140-87130/5	400.0	422.463958	100.0	10559524.0	1.05616	Y
6	IC 140-87130/6	2000.0	2265.056641	100.0	11474644.0	1.132528	Y



Calibration

/ PCB-115

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

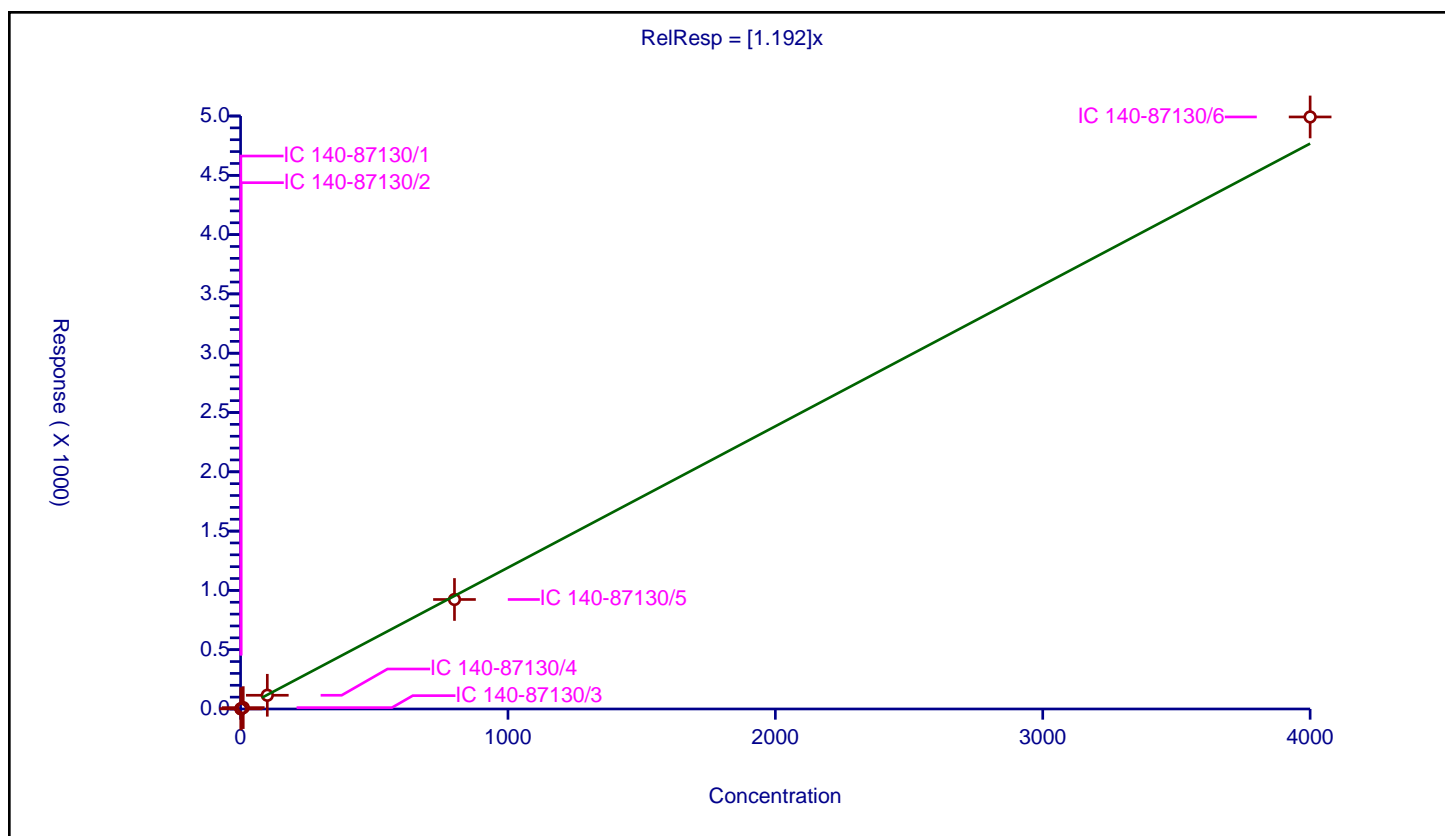
Curve Coefficients

Intercept: 0
 Slope: 1.192

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

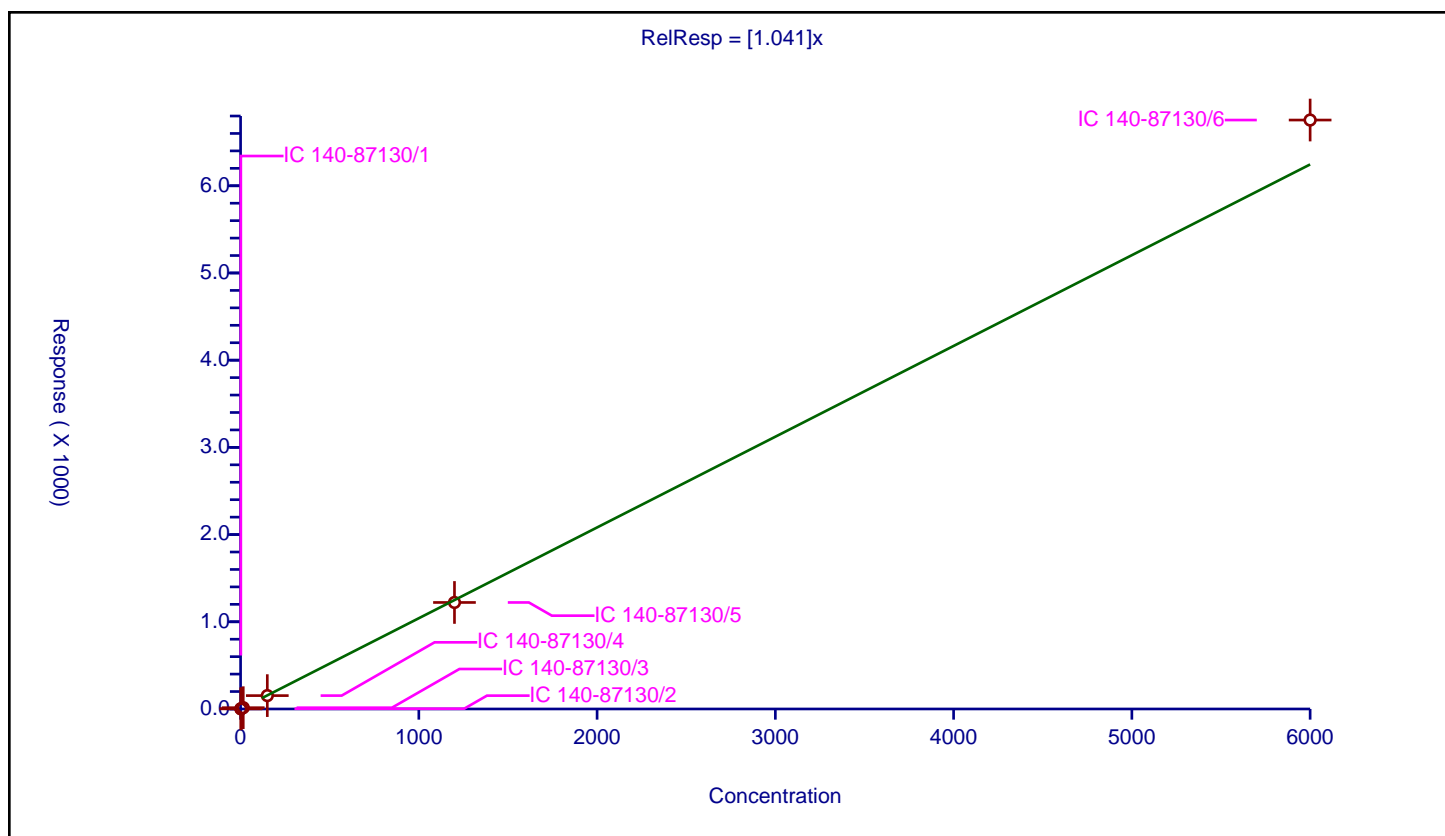
Curve Coefficients

Intercept: 0
Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Calibration

/ PCB-117

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

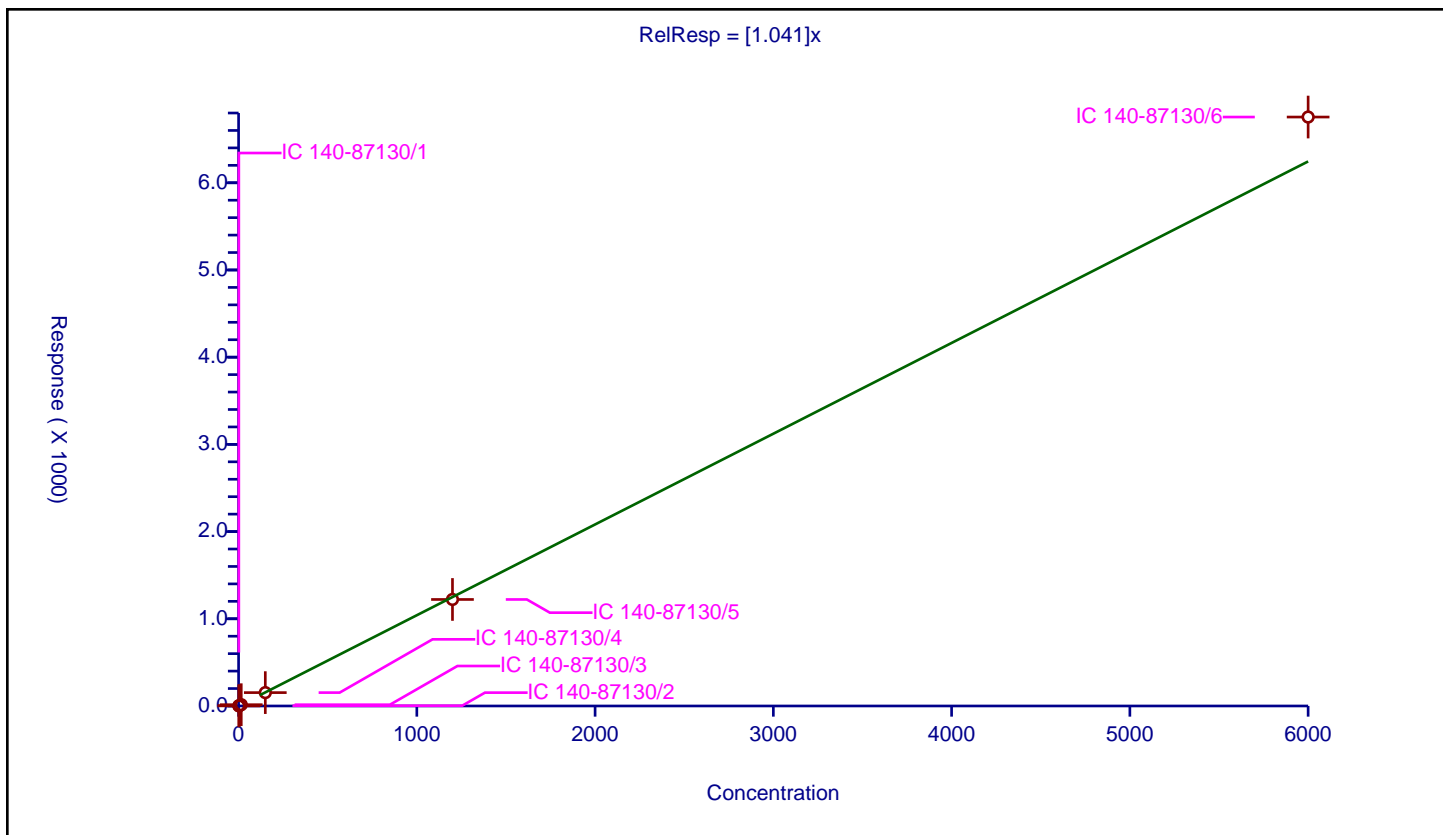
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Calibration

/ PCB-118

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

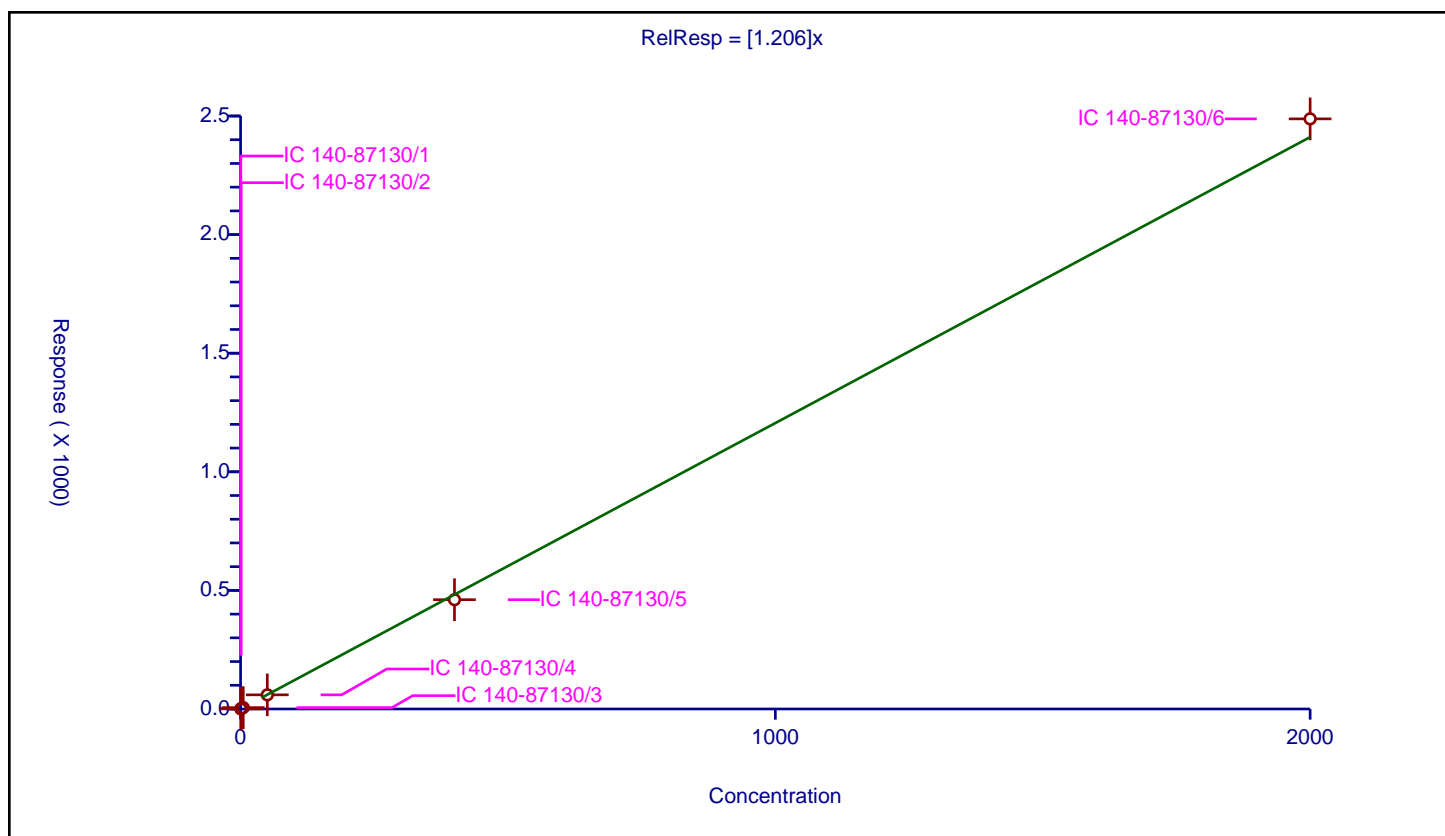
Curve Coefficients

Intercept: 0
 Slope: 1.206

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609173	100.0	10759990.0	1.218347	Y
2	IC 140-87130/2	1.0	1.261874	100.0	9353232.0	1.261874	Y
3	IC 140-87130/3	5.0	5.826279	100.0	9948185.0	1.165256	Y
4	IC 140-87130/4	50.0	59.595331	100.0	10094764.0	1.191907	Y
5	IC 140-87130/5	400.0	460.770003	100.0	10740248.0	1.151925	Y
6	IC 140-87130/6	2000.0	2487.929052	100.0	11370905.0	1.243965	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

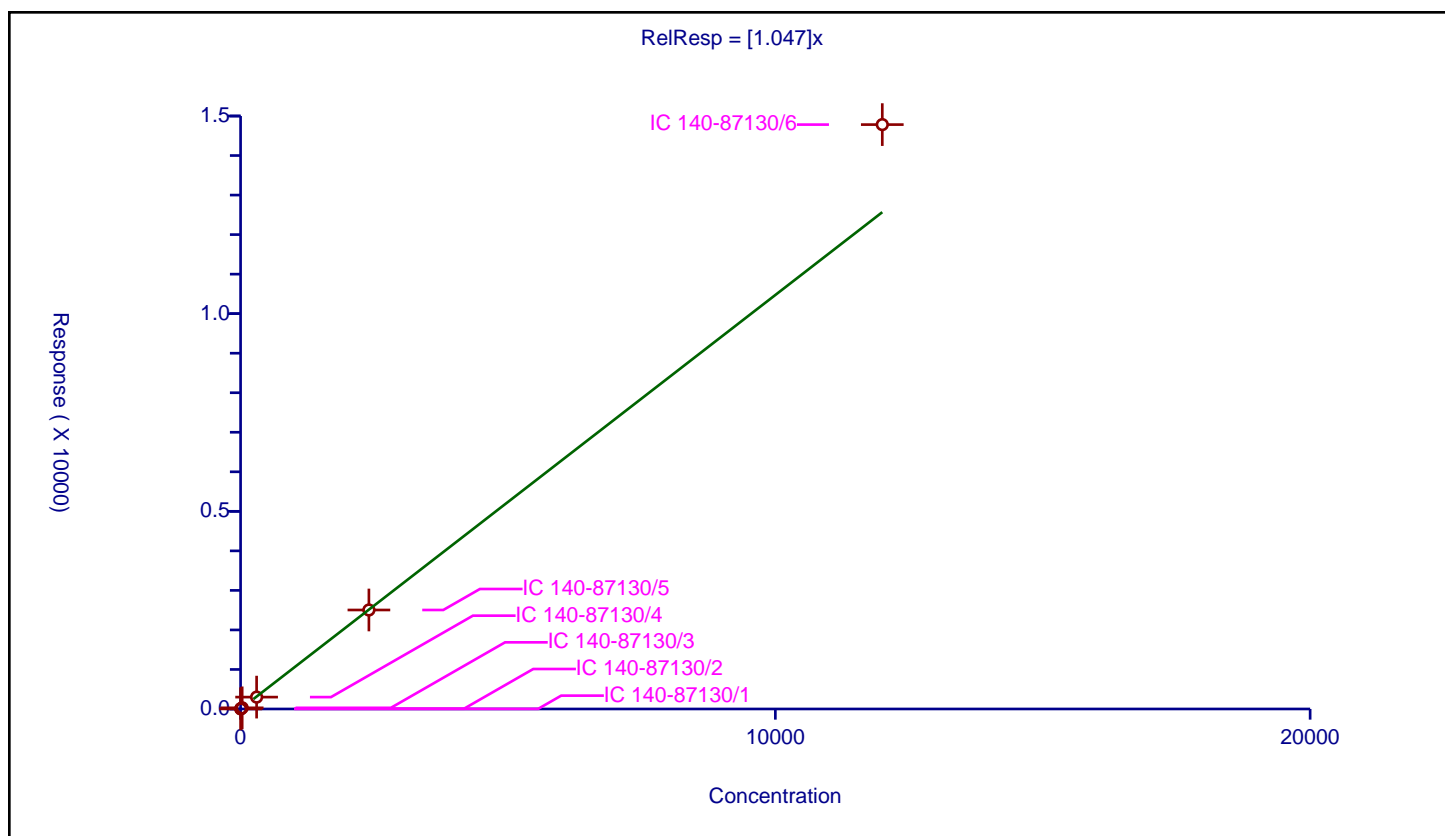
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-12

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

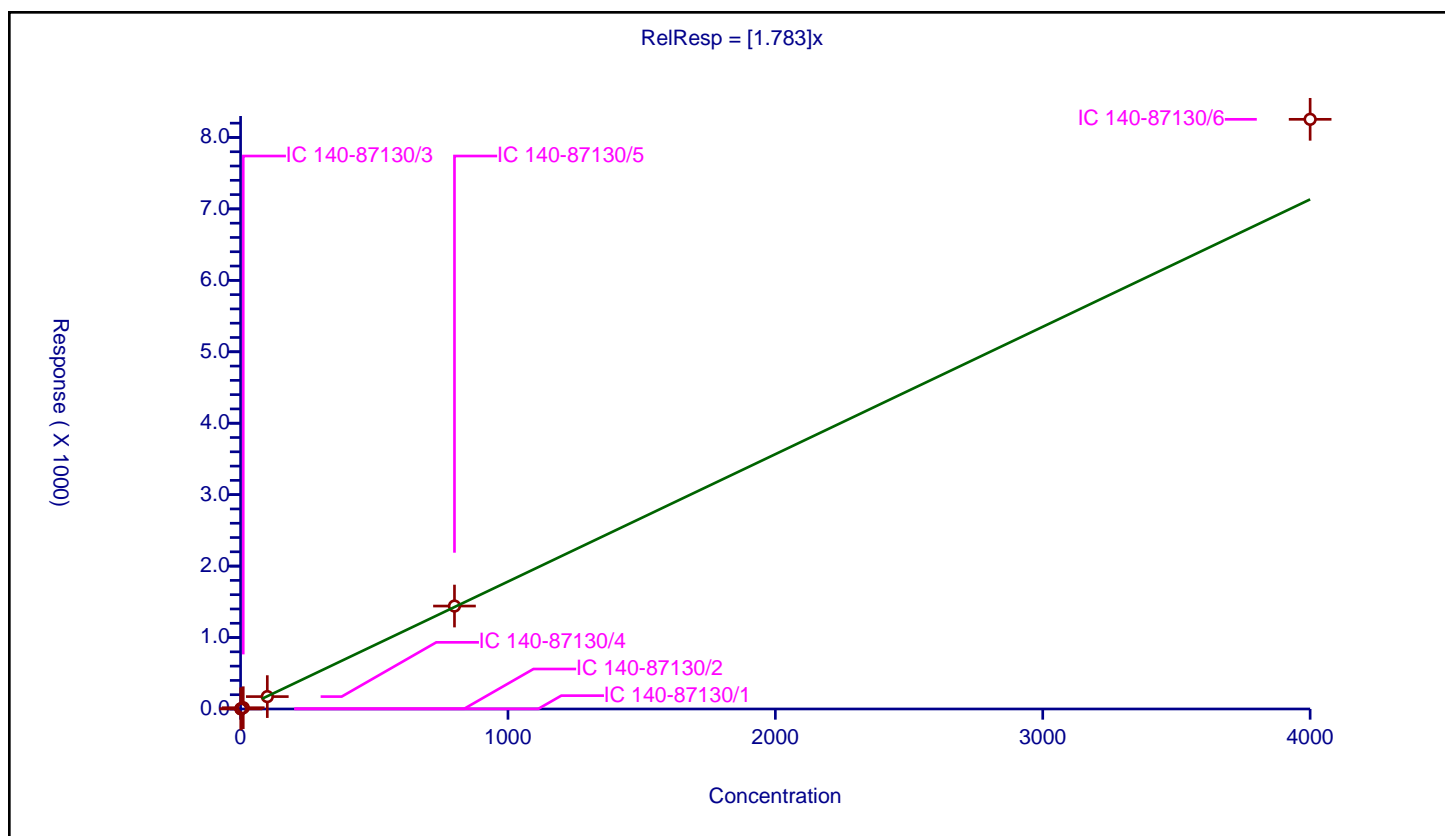
Curve Coefficients

Intercept: 0
Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Calibration

/ PCB-12/13

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

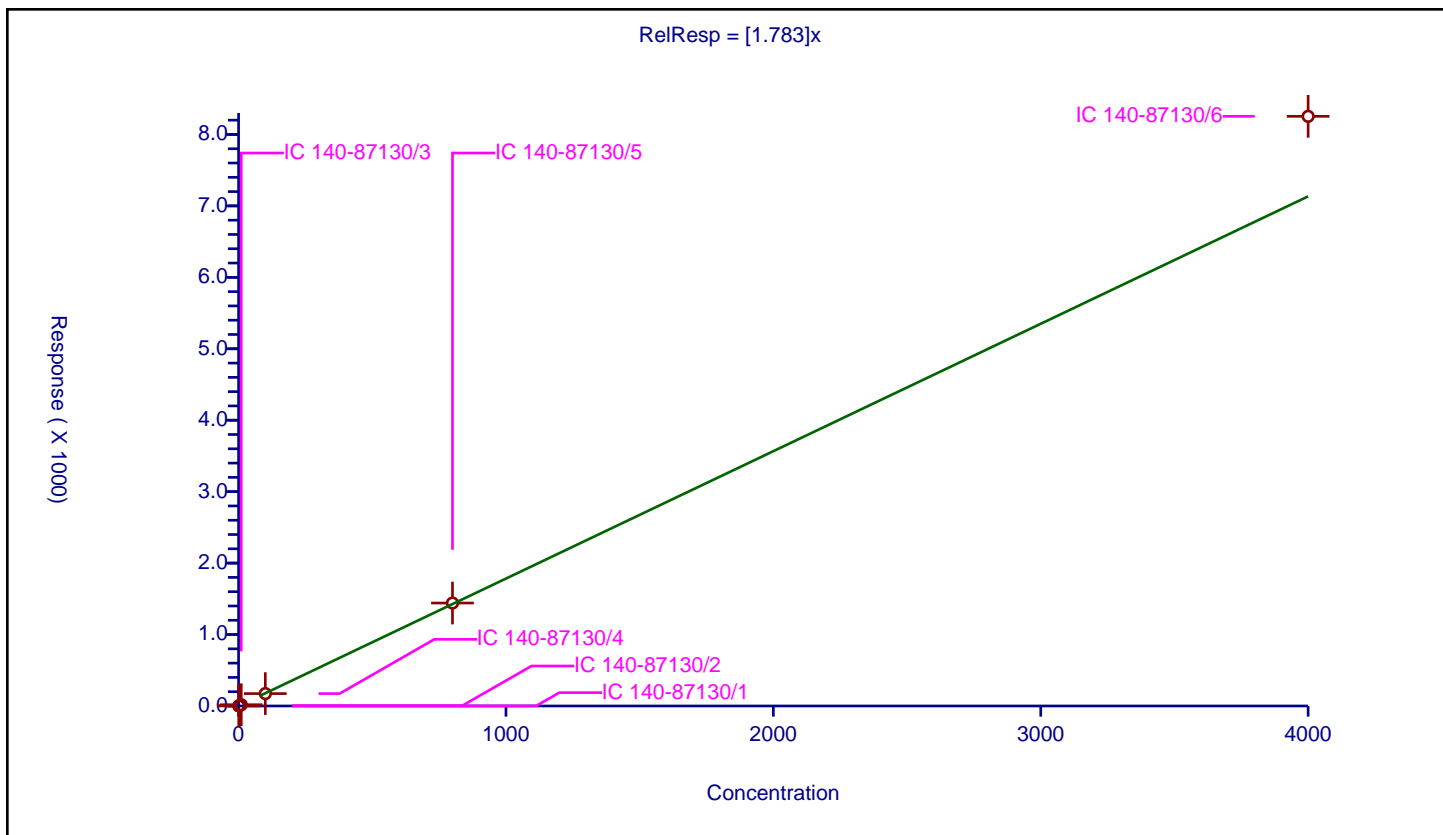
Curve Coefficients

Intercept: 0
 Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Calibration

/ PCB-120

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

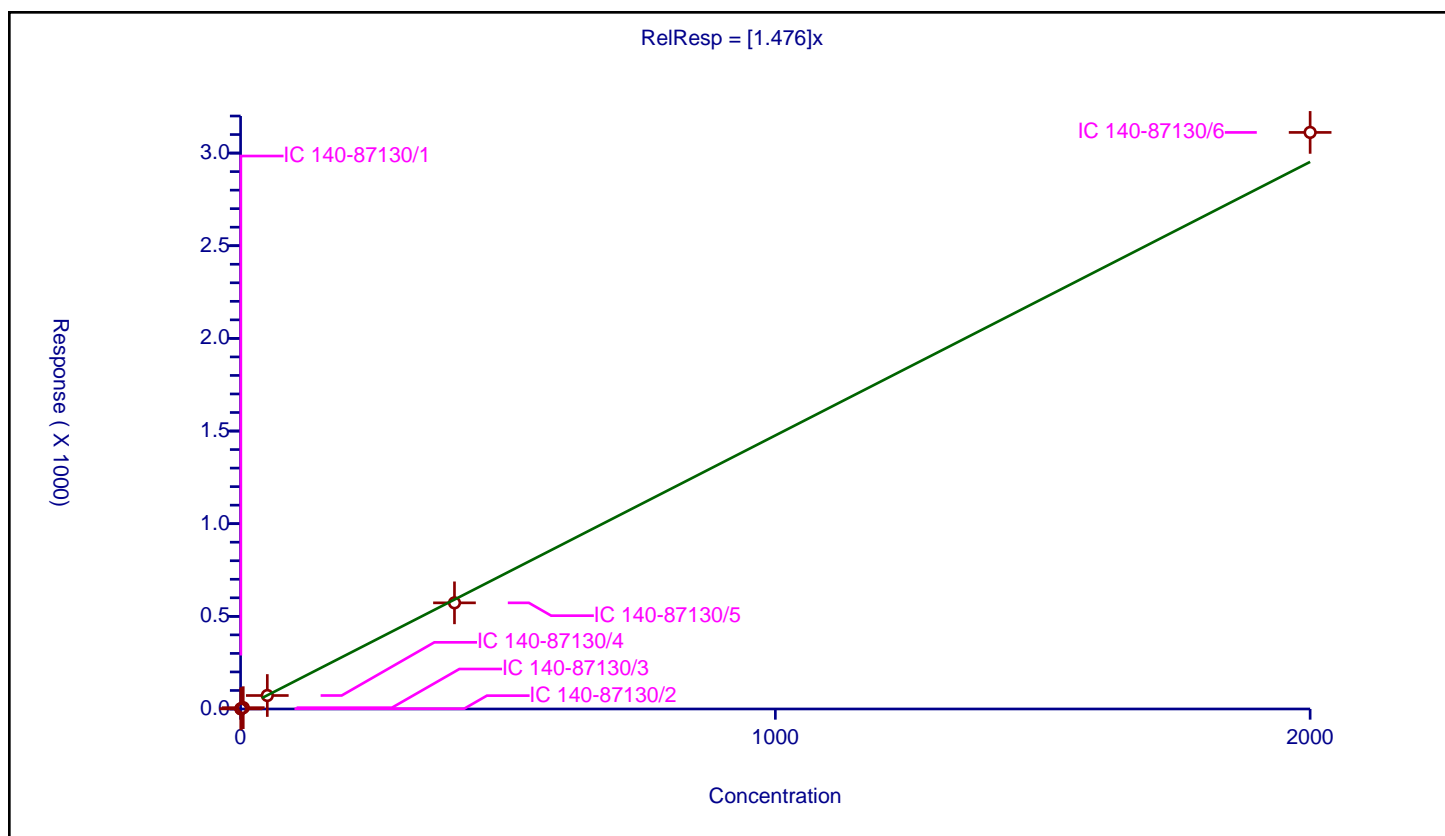
Curve Coefficients

Intercept: 0
 Slope: 1.476

Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.764782	100.0	6938320.0	1.529563	Y
2	IC 140-87130/2	1.0	1.468894	100.0	6240748.0	1.468894	Y
3	IC 140-87130/3	5.0	7.079066	100.0	6307301.0	1.415813	Y
4	IC 140-87130/4	50.0	72.764958	100.0	6455349.0	1.455299	Y
5	IC 140-87130/5	400.0	572.862857	100.0	6672003.0	1.432157	Y
6	IC 140-87130/6	2000.0	3111.506535	100.0	6975966.0	1.555753	Y



Calibration

/ PCB-121

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

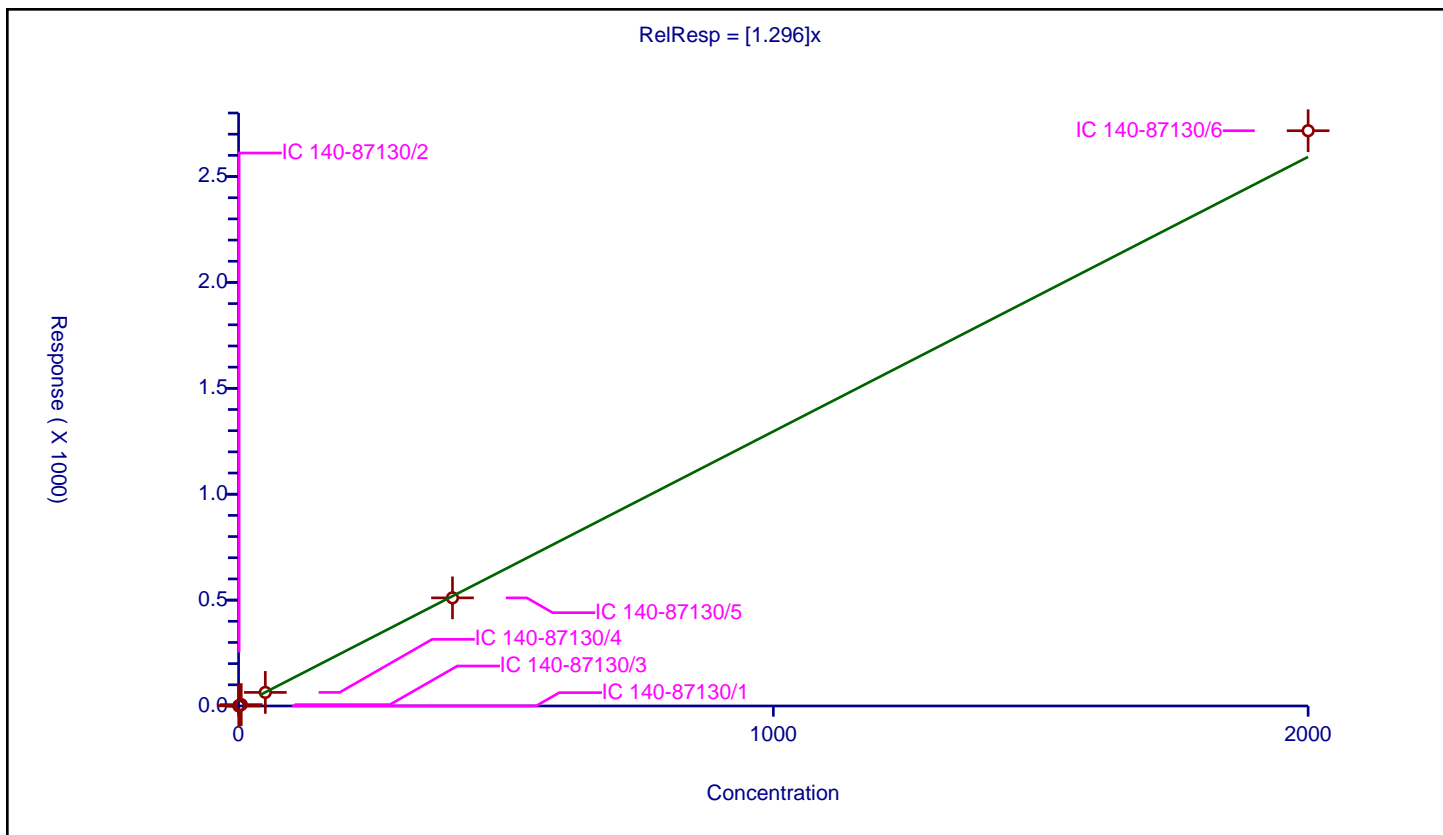
Curve Coefficients

Intercept: 0
 Slope: 1.296

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.626074	100.0	6938320.0	1.252147	Y
2	IC 140-87130/2	1.0	1.317791	100.0	6240748.0	1.317791	Y
3	IC 140-87130/3	5.0	6.449113	100.0	6307301.0	1.289823	Y
4	IC 140-87130/4	50.0	64.202292	100.0	6455349.0	1.284046	Y
5	IC 140-87130/5	400.0	510.565253	100.0	6672003.0	1.276413	Y
6	IC 140-87130/6	2000.0	2716.396066	100.0	6975966.0	1.358198	Y



Calibration

/ PCB-122

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

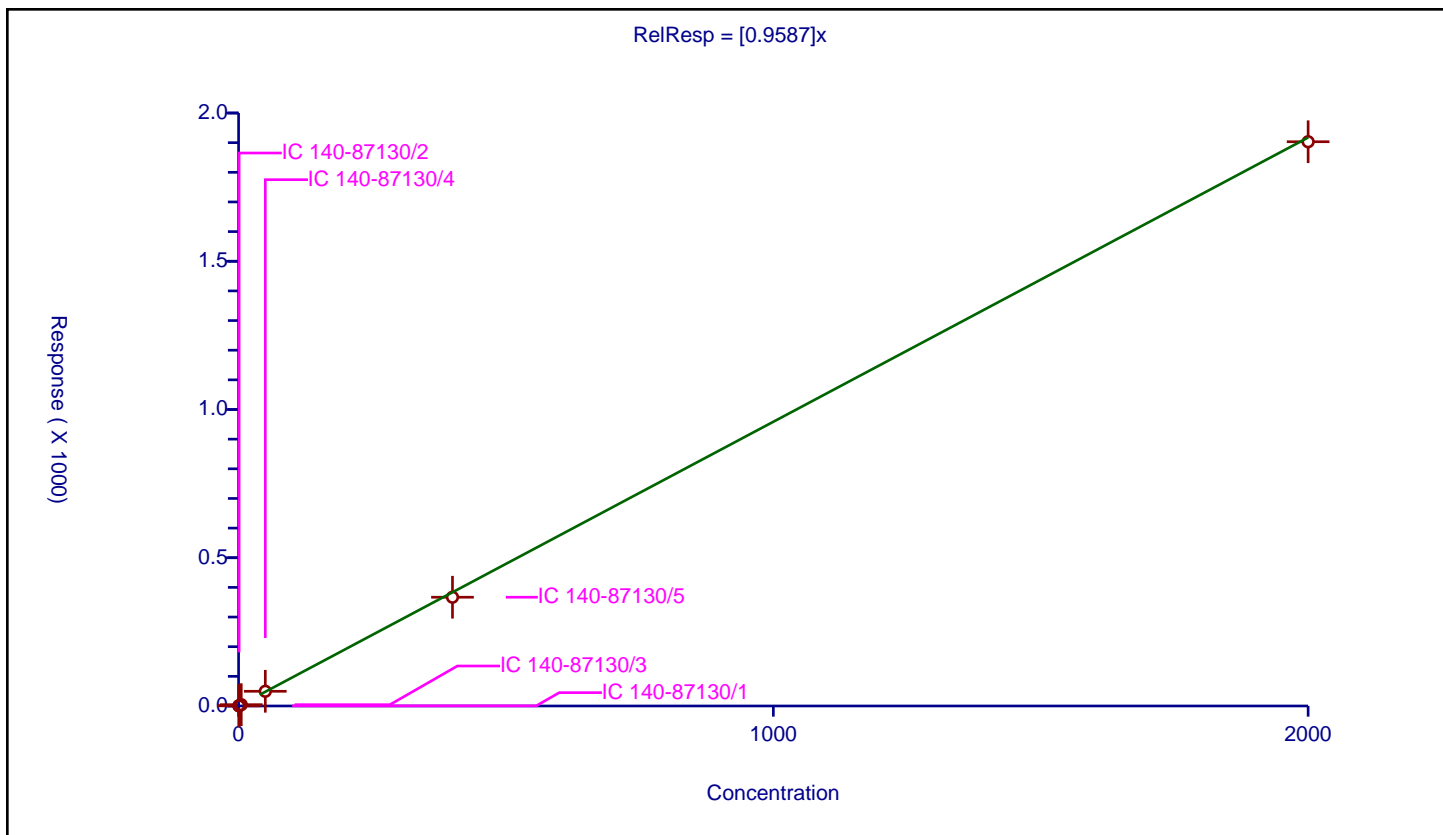
Curve Coefficients

Intercept: 0
 Slope: 0.9587

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.477126	100.0	10371480.0	0.954251	Y
2	IC 140-87130/2	1.0	1.043538	100.0	9073751.0	1.043538	Y
3	IC 140-87130/3	5.0	4.470647	100.0	9321962.0	0.894129	Y
4	IC 140-87130/4	50.0	49.566839	100.0	9501201.0	0.991337	Y
5	IC 140-87130/5	400.0	366.864546	100.0	10377703.0	0.917161	Y
6	IC 140-87130/6	2000.0	1903.10055	100.0	11406816.0	0.95155	Y



Calibration

/ PCB-123

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

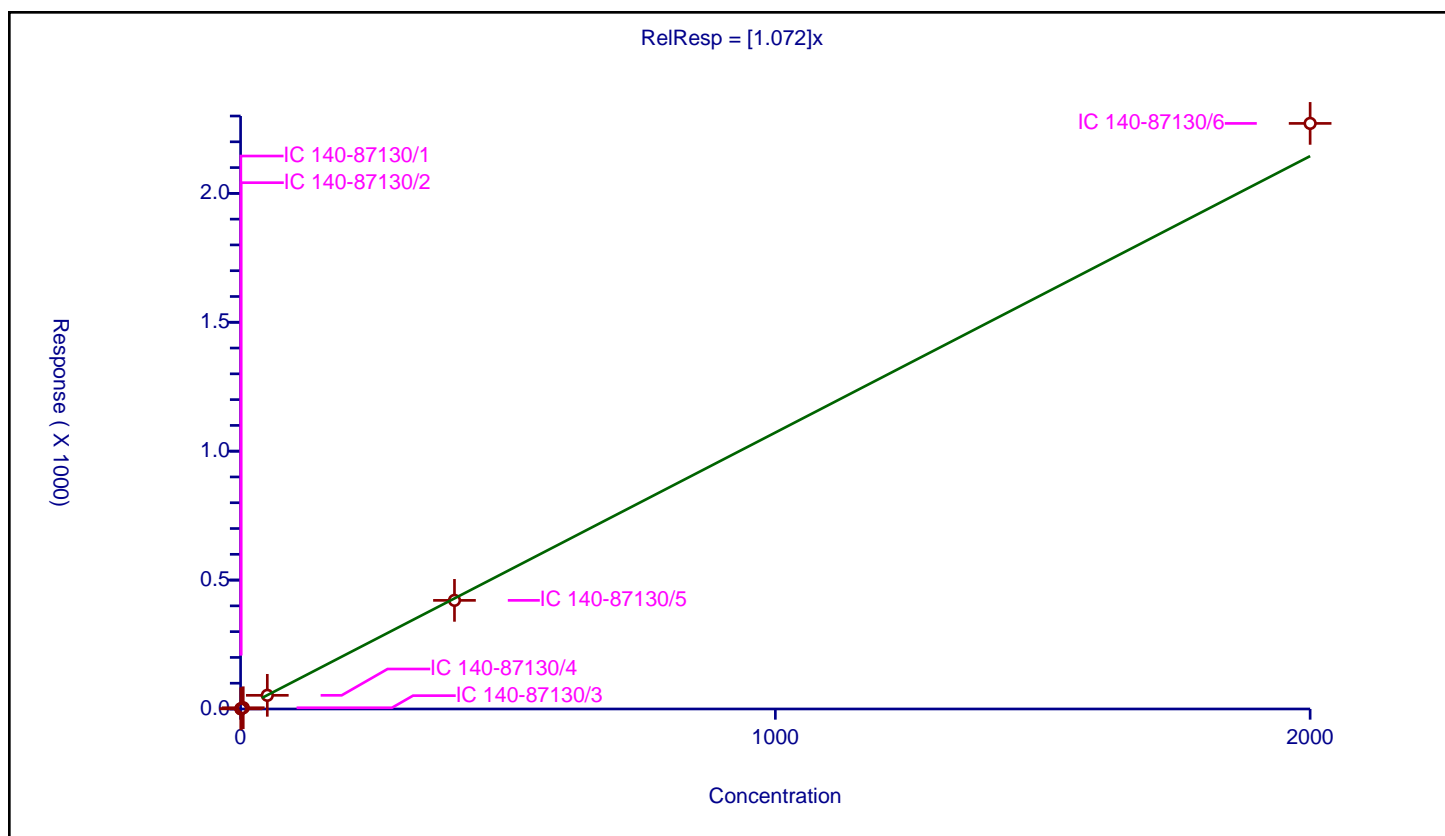
Curve Coefficients

Intercept: 0
Slope: 1.072

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542661	100.0	10371480.0	1.085322	Y
2	IC 140-87130/2	1.0	1.145469	100.0	9073751.0	1.145469	Y
3	IC 140-87130/3	5.0	4.769908	100.0	9321962.0	0.953982	Y
4	IC 140-87130/4	50.0	52.982691	100.0	9501201.0	1.059654	Y
5	IC 140-87130/5	400.0	421.35196	100.0	10377703.0	1.05338	Y
6	IC 140-87130/6	2000.0	2271.302132	100.0	11406816.0	1.135651	Y



Calibration

/ PCB-124

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

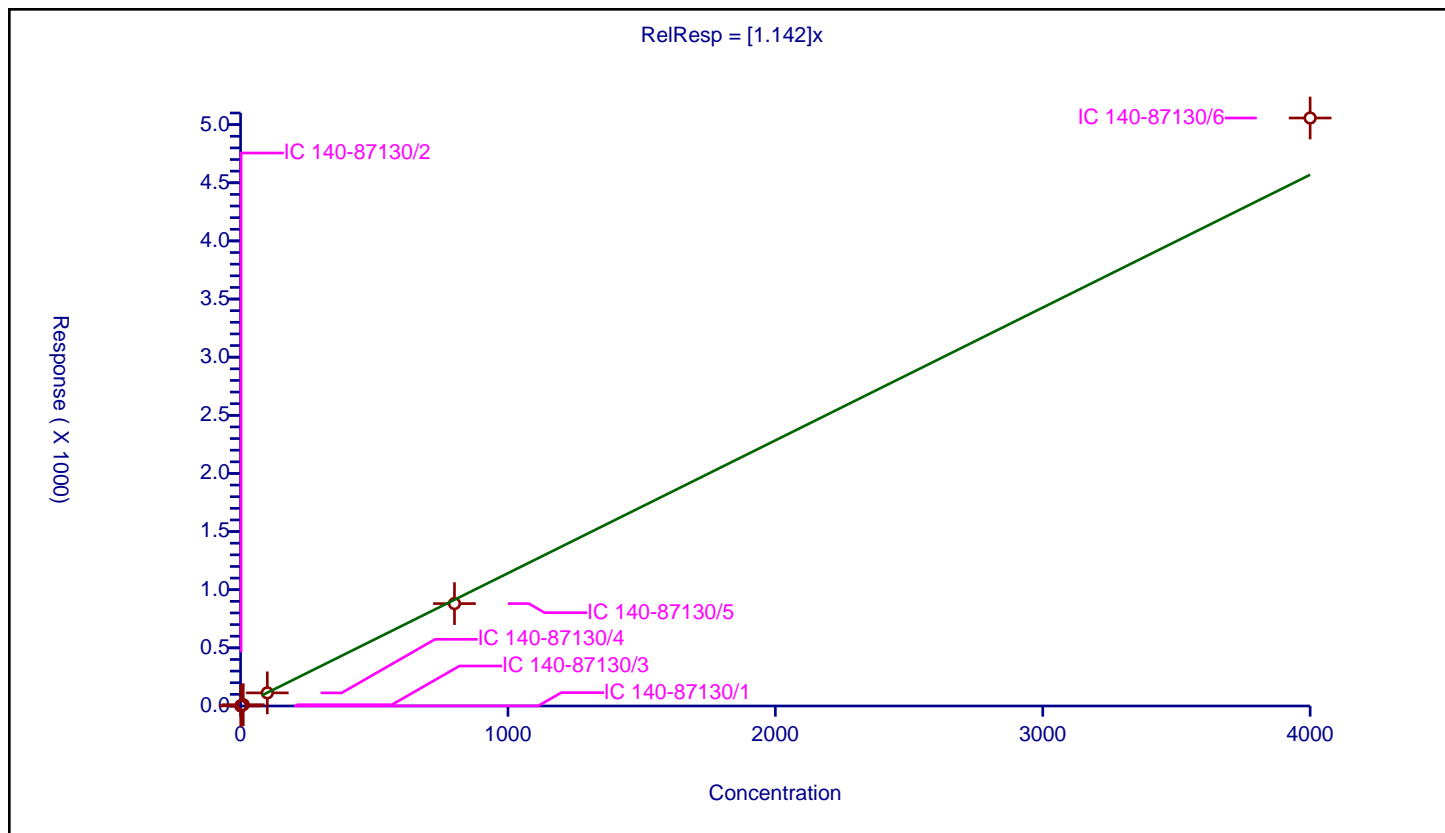
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

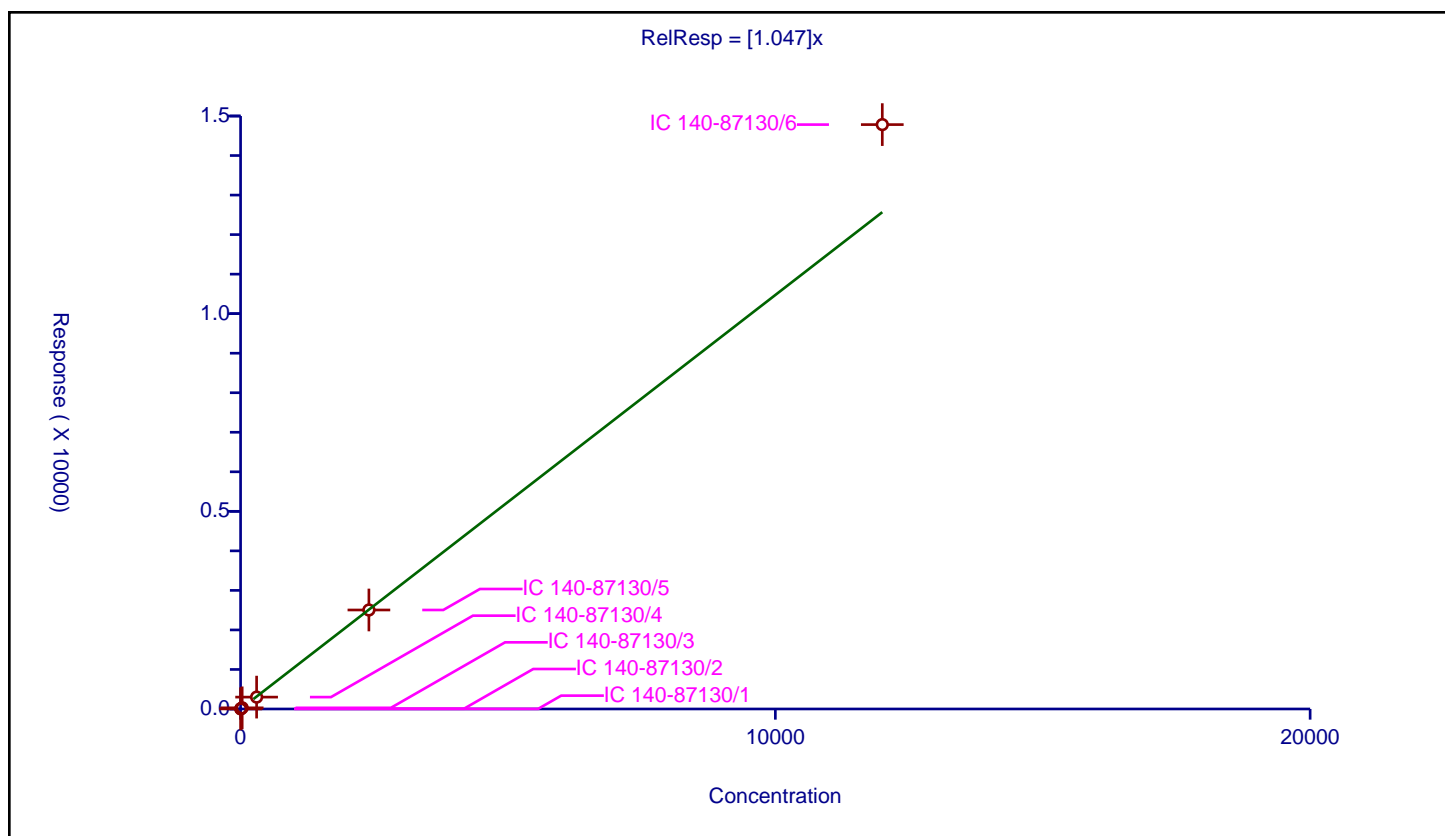
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

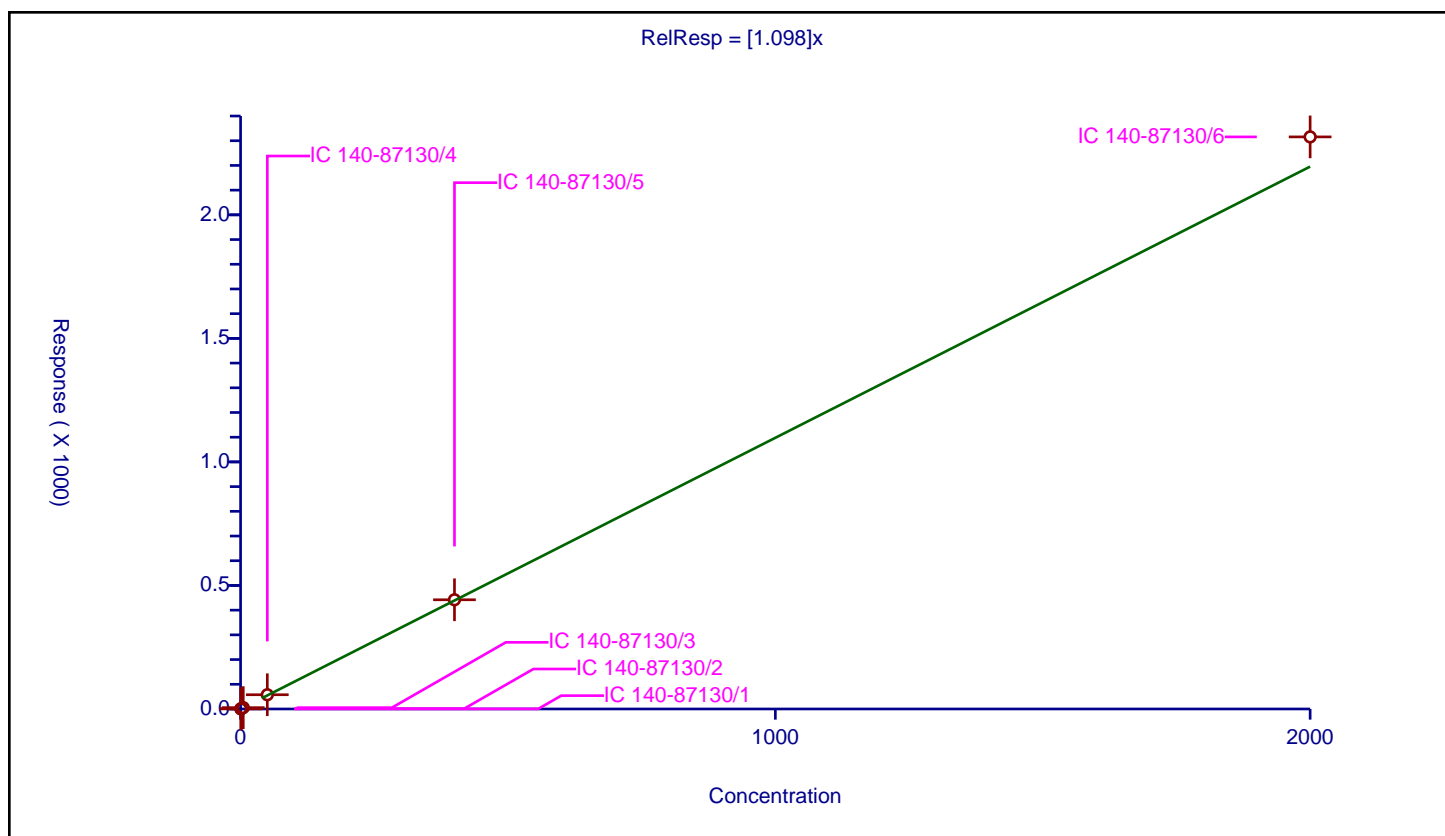
Curve Coefficients

Intercept: 0
Slope: 1.098

Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.497752	100.0	9958778.0	0.995504	Y
2	IC 140-87130/2	1.0	1.094031	100.0	8756063.0	1.094031	Y
3	IC 140-87130/3	5.0	5.401953	100.0	8945635.0	1.080391	Y
4	IC 140-87130/4	50.0	57.642157	100.0	9388684.0	1.152843	Y
5	IC 140-87130/5	400.0	442.04375	100.0	10103302.0	1.105109	Y
6	IC 140-87130/6	2000.0	2315.466548	100.0	11098540.0	1.157733	Y



Calibration

/ PCB-127

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

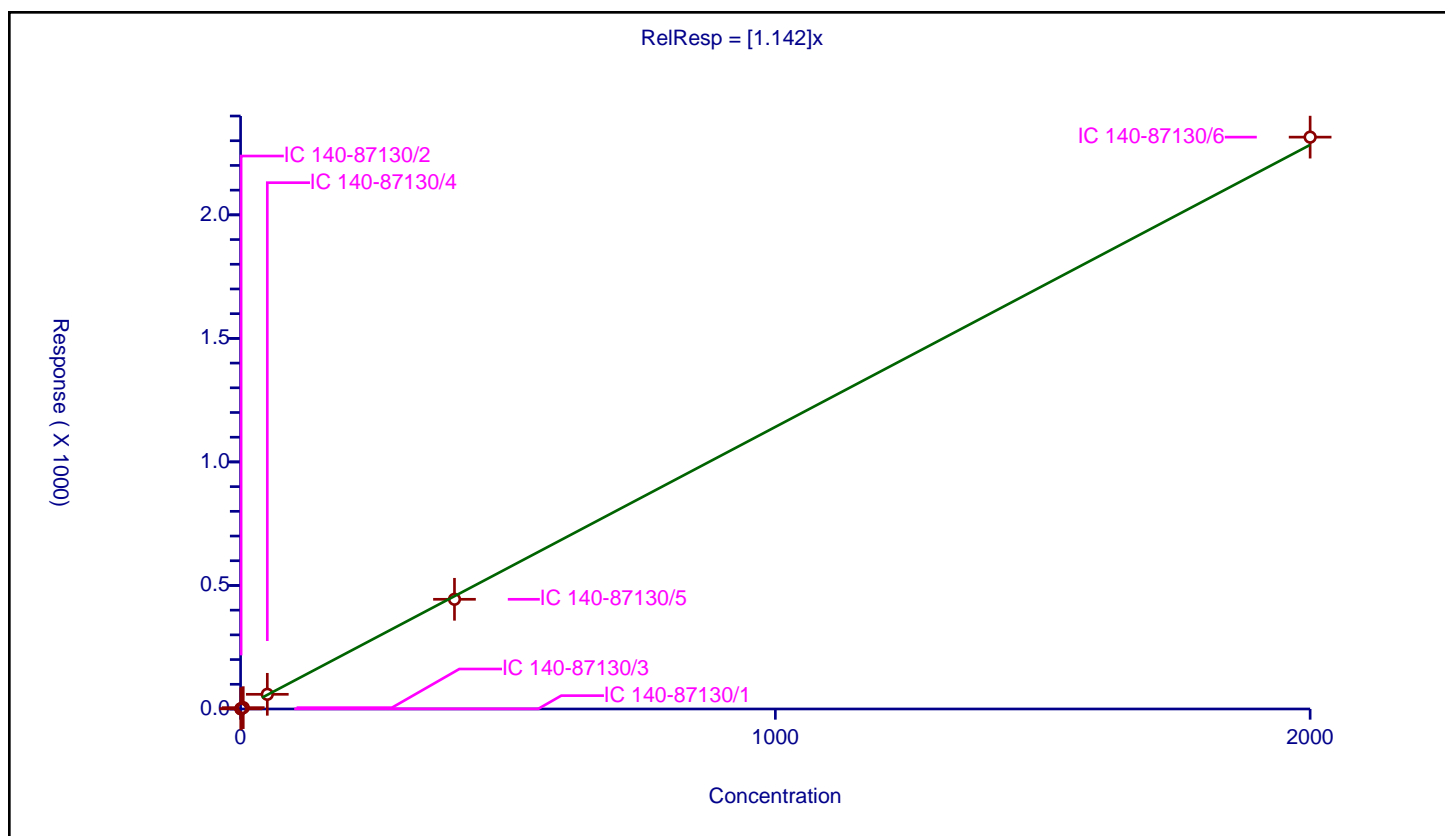
Curve Coefficients

Intercept: 0
 Slope: 1.142

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554569	100.0	10371480.0	1.109138	Y
2	IC 140-87130/2	1.0	1.199857	100.0	9073751.0	1.199857	Y
3	IC 140-87130/3	5.0	5.427334	100.0	9321962.0	1.085467	Y
4	IC 140-87130/4	50.0	59.390029	100.0	9501201.0	1.187801	Y
5	IC 140-87130/5	400.0	443.991517	100.0	10377703.0	1.109979	Y
6	IC 140-87130/6	2000.0	2314.503206	100.0	11406816.0	1.157252	Y



Calibration

/ PCB-128

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

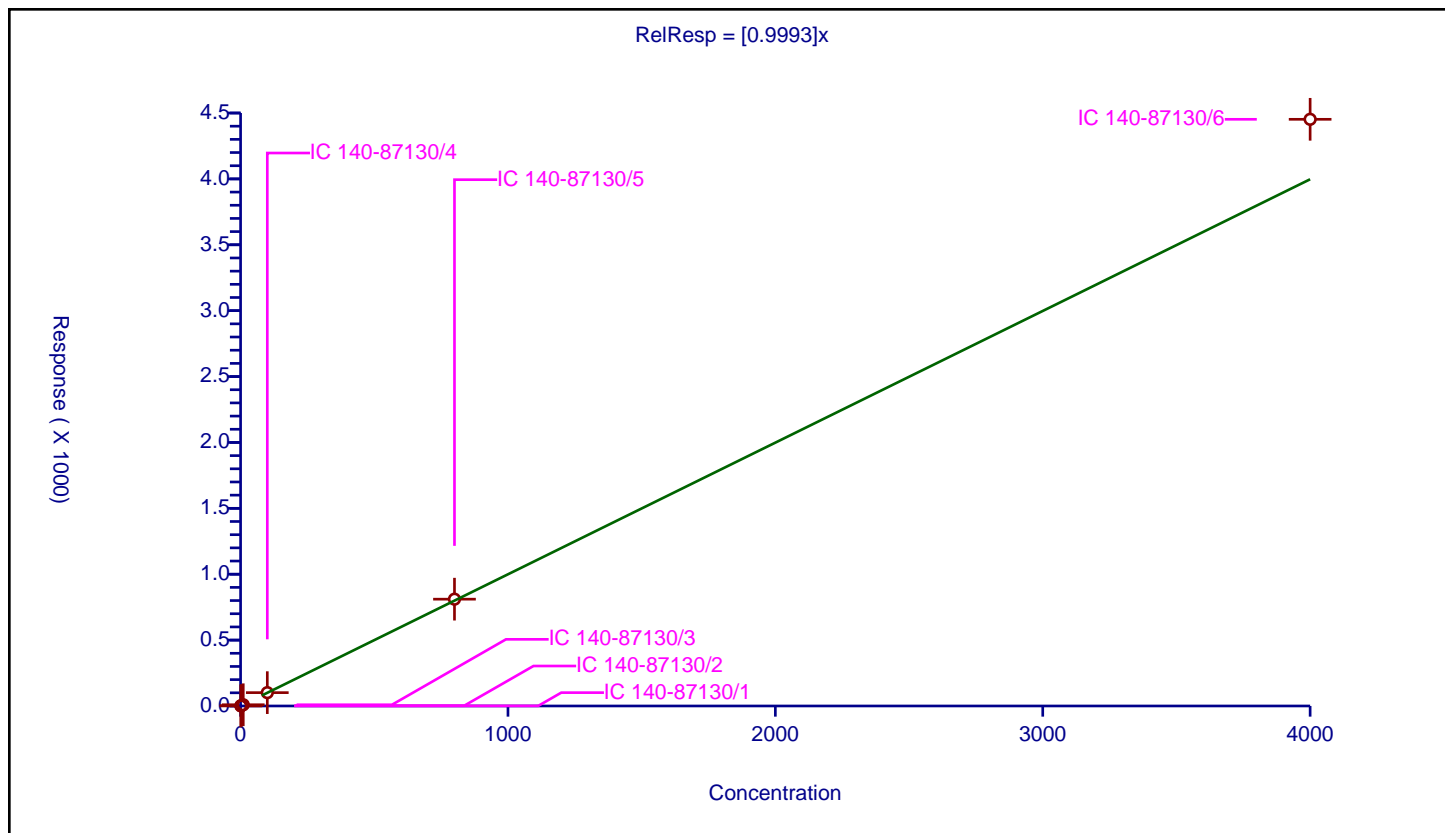
Curve Coefficients

Intercept: 0
 Slope: 0.9993

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-128/166

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

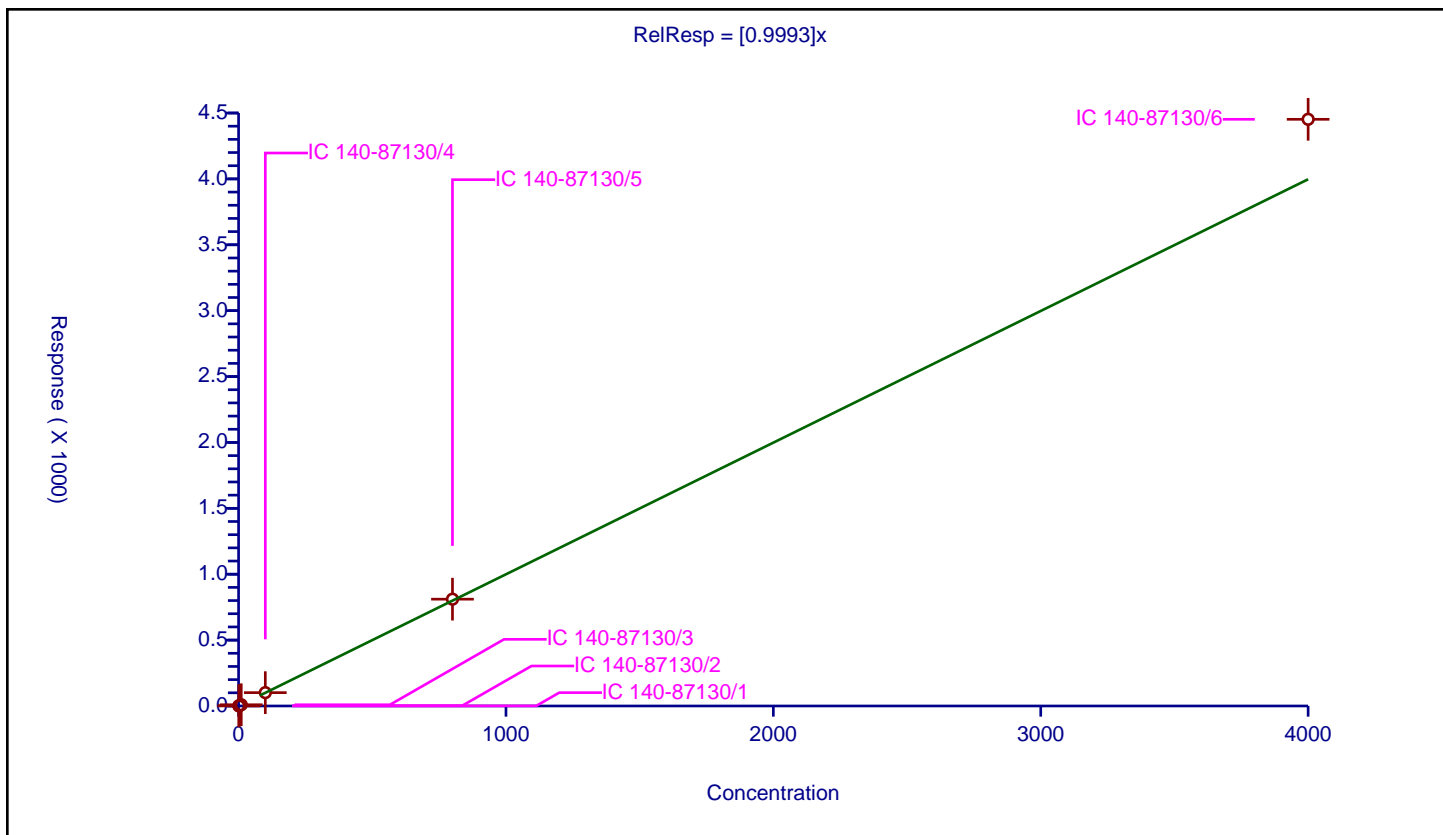
Curve Coefficients

Intercept: 0
 Slope: 0.9993

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-129

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

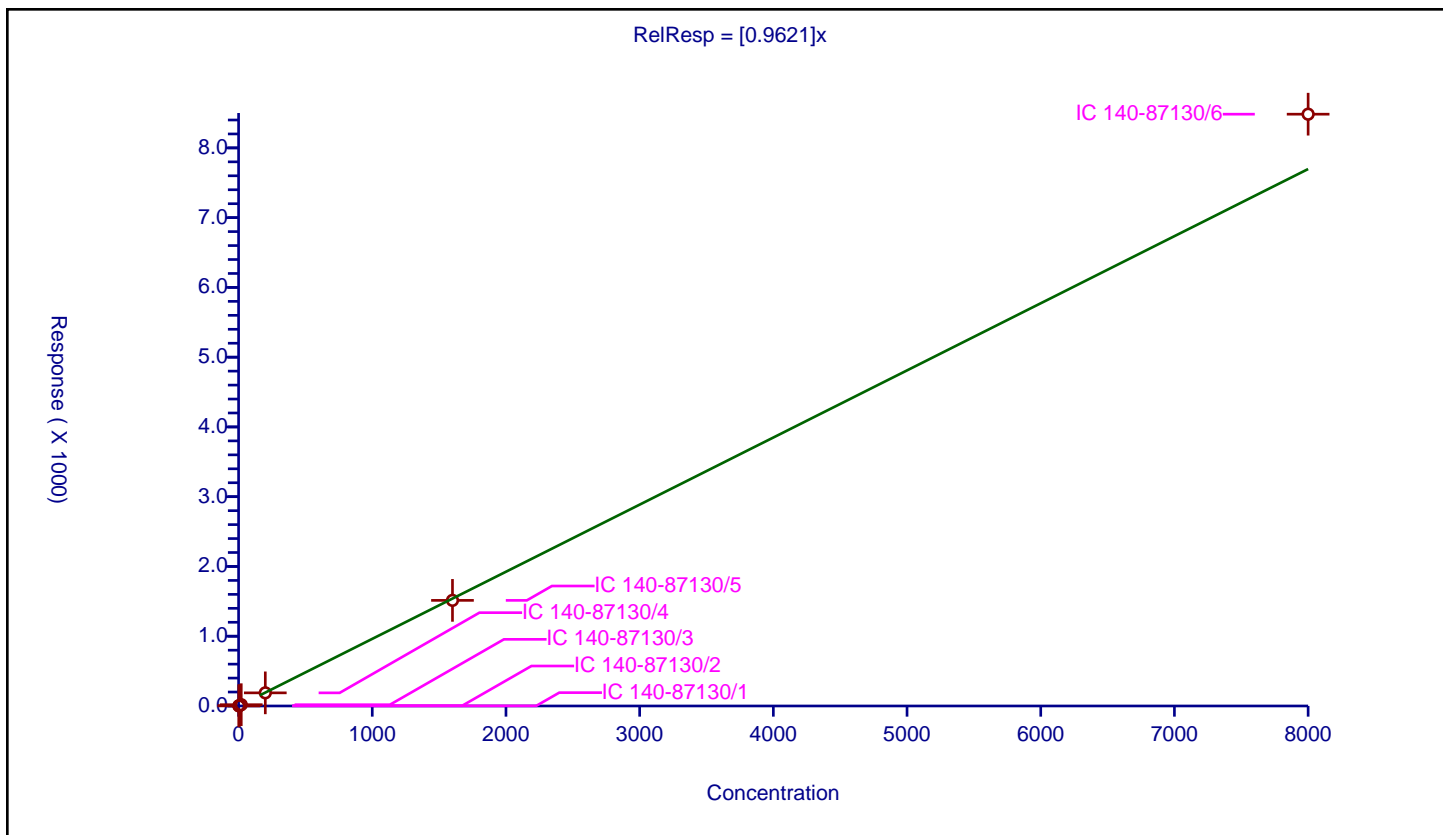
Curve Coefficients

Intercept: 0
Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Calibration

/ PCB-129/138/160/163

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

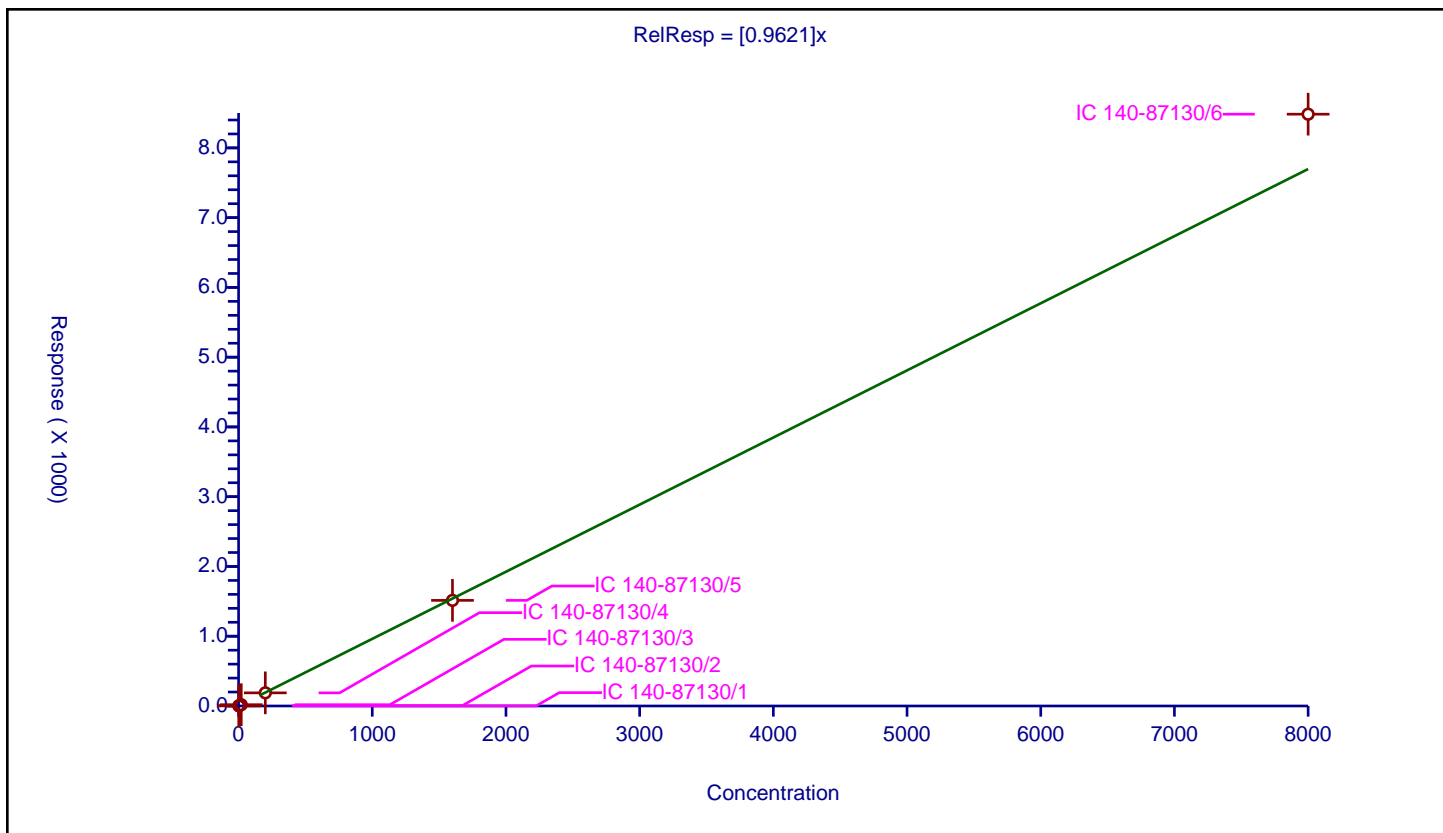
Curve Coefficients

Intercept: 0
 Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

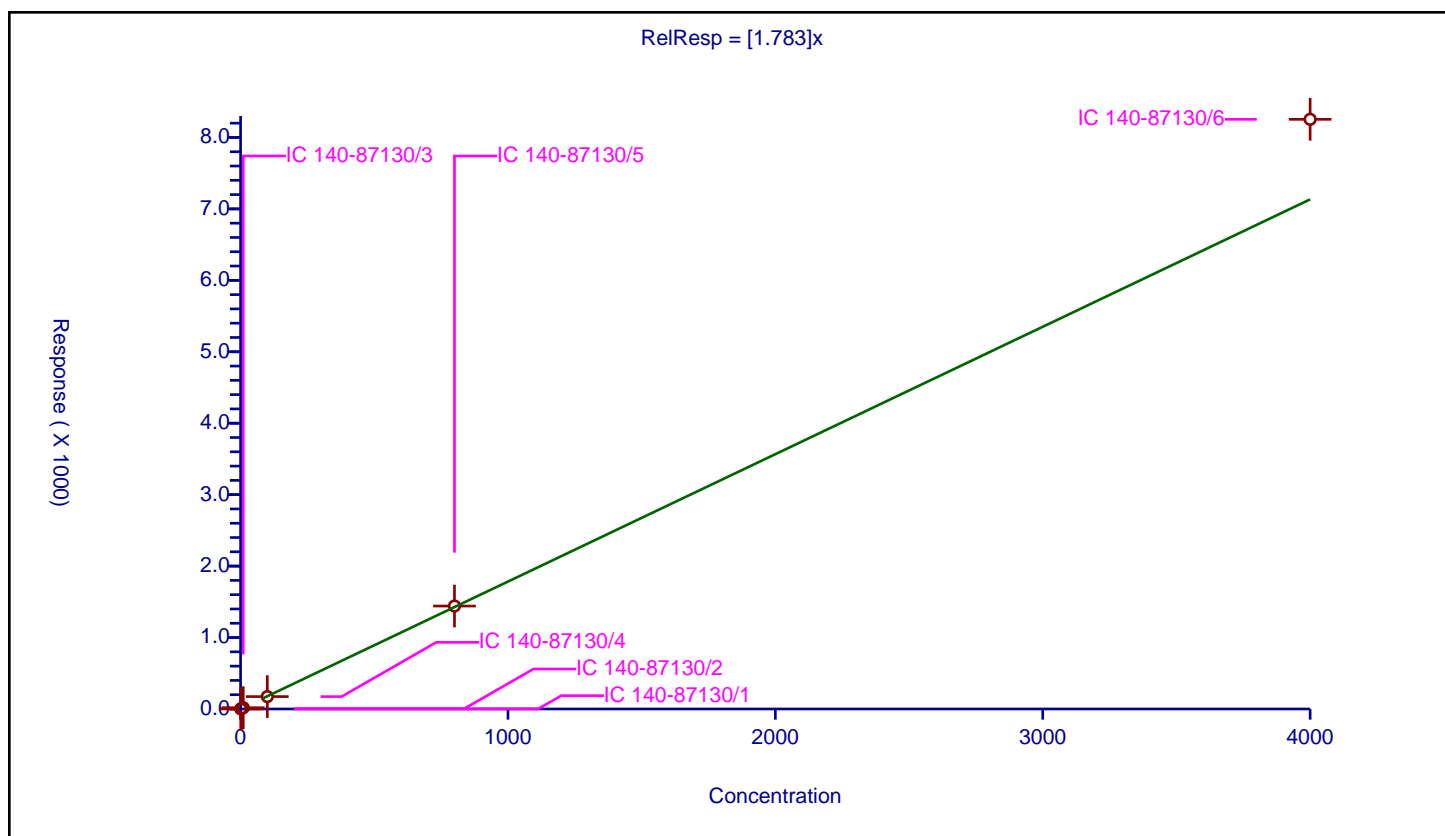
Curve Coefficients

Intercept: 0
Slope: 1.783

Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Calibration

/ PCB-130

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

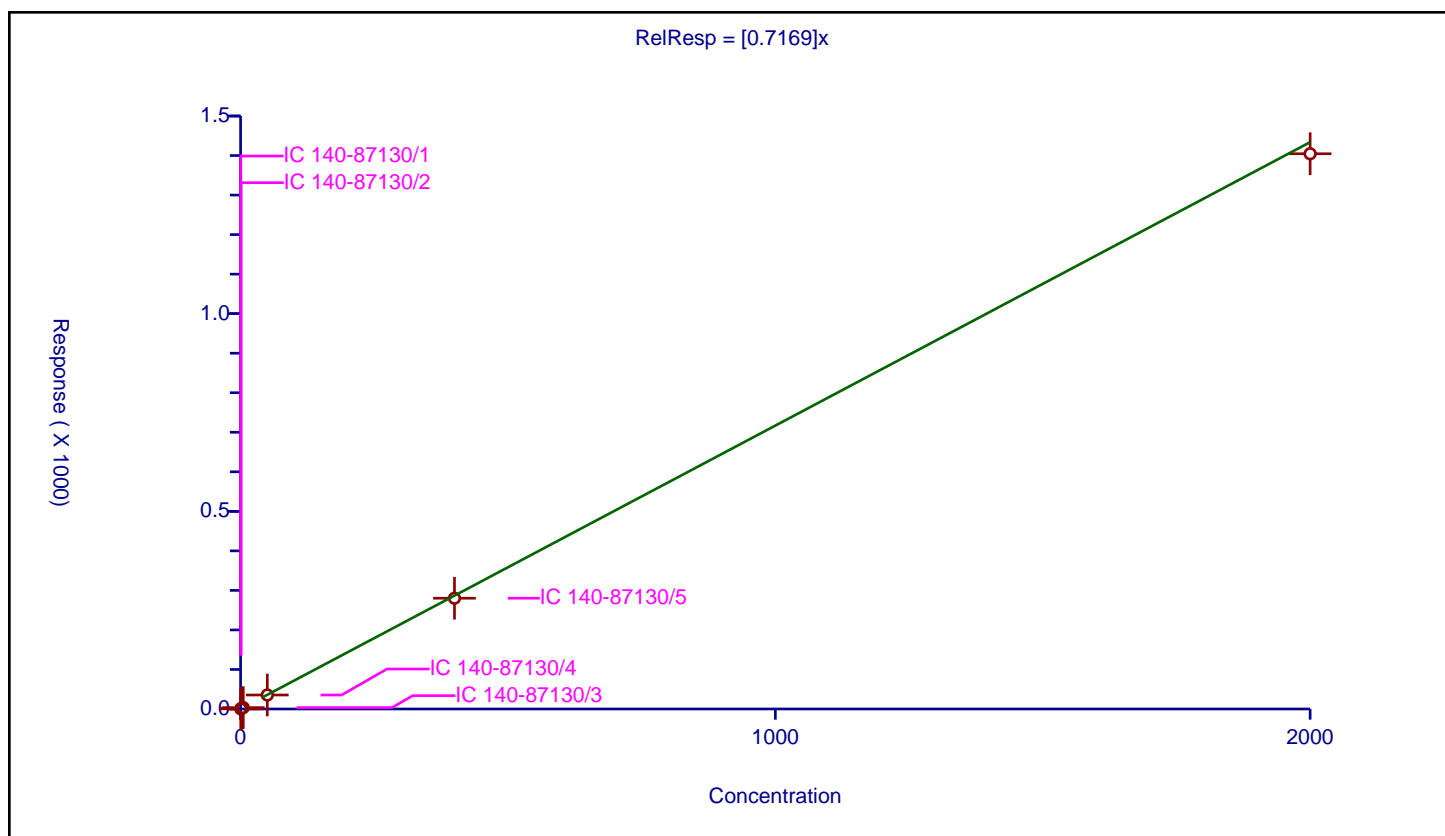
Curve Coefficients

Intercept: 0
Slope: 0.7169

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.374983	200.0	17145311.0	0.749966	Y
2	IC 140-87130/2	1.0	0.742768	200.0	16075823.0	0.742768	Y
3	IC 140-87130/3	5.0	3.49154	200.0	15994835.0	0.698308	Y
4	IC 140-87130/4	50.0	35.374985	200.0	16048883.0	0.7075	Y
5	IC 140-87130/5	400.0	280.165569	200.0	16797326.0	0.700414	Y
6	IC 140-87130/6	2000.0	1404.539452	200.0	18003846.0	0.70227	Y



Calibration

/ PCB-131

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

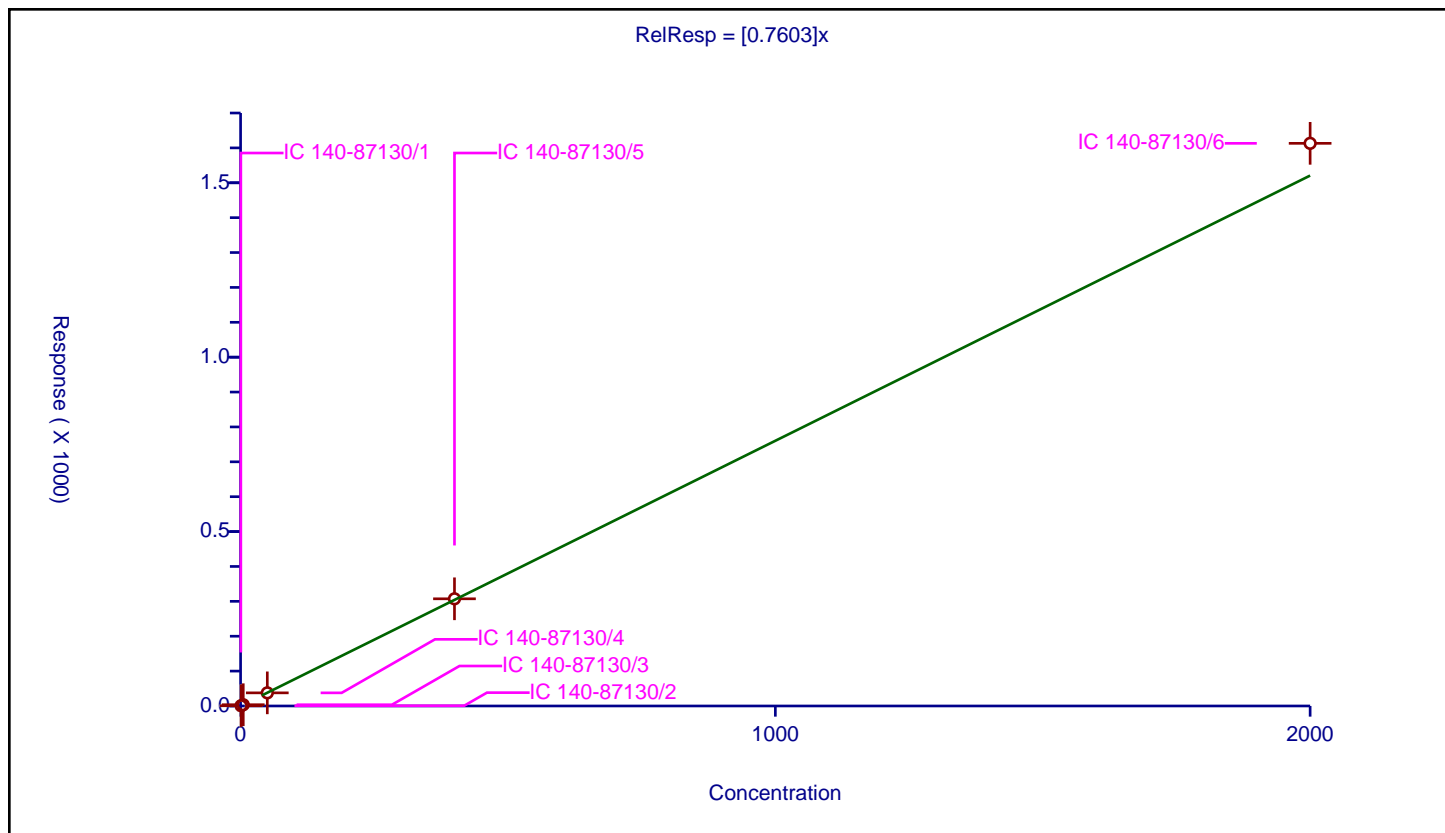
Curve Coefficients

Intercept: 0
 Slope: 0.7603

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.495879	200.0	17145311.0	0.991758	N
2	IC 140-87130/2	1.0	0.750033	200.0	16075823.0	0.750033	Y
3	IC 140-87130/3	5.0	3.621982	200.0	15994835.0	0.724396	Y
4	IC 140-87130/4	50.0	37.621659	200.0	16048883.0	0.752433	Y
5	IC 140-87130/5	400.0	307.270824	200.0	16797326.0	0.768177	Y
6	IC 140-87130/6	2000.0	1613.043169	200.0	18003846.0	0.806522	Y



Calibration

/ PCB-132

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

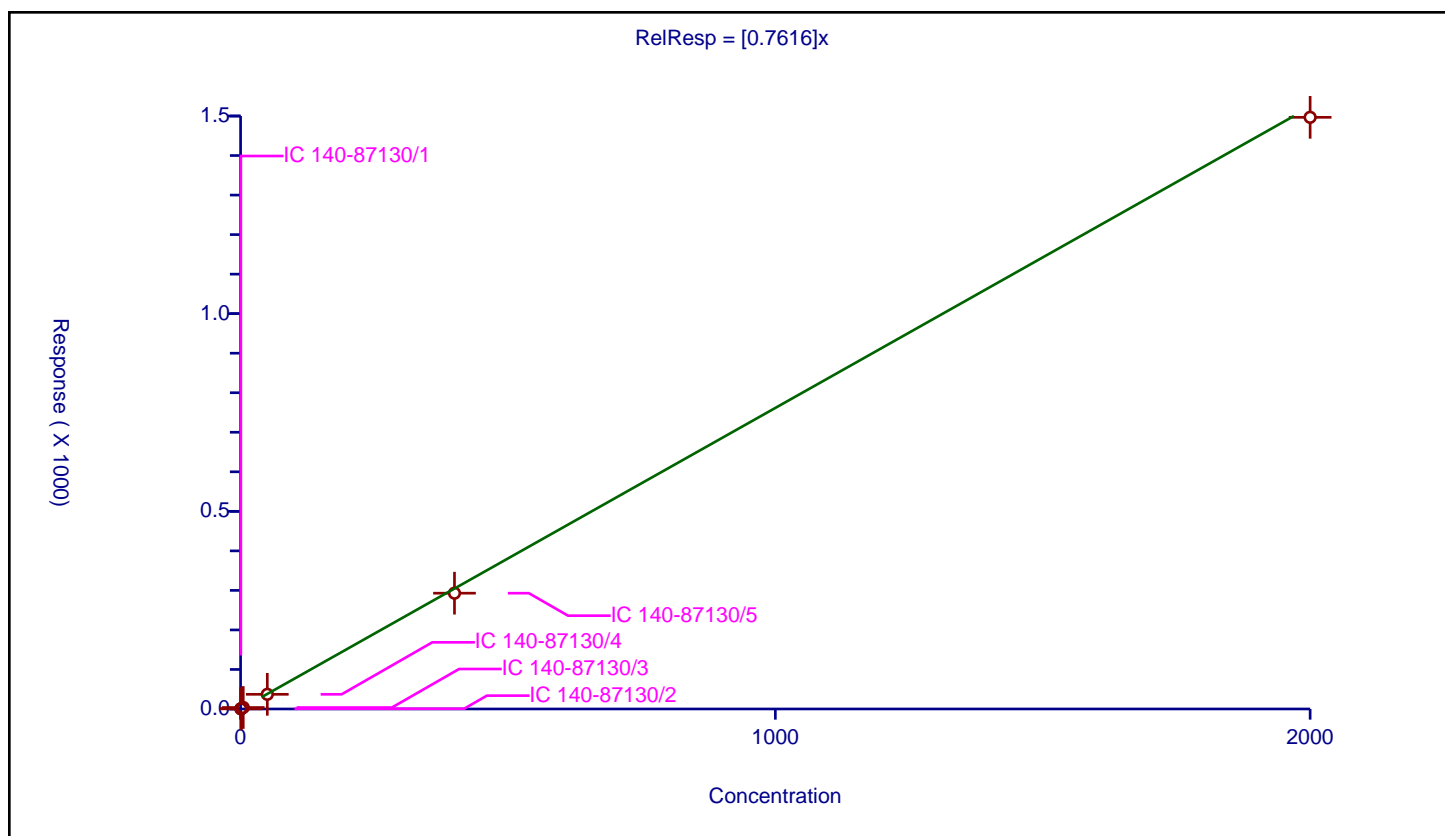
Curve Coefficients

Intercept: 0
 Slope: 0.7616

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.426916	200.0	17145311.0	0.853831	Y
2	IC 140-87130/2	1.0	0.740528	200.0	16075823.0	0.740528	Y
3	IC 140-87130/3	5.0	3.758438	200.0	15994835.0	0.751688	Y
4	IC 140-87130/4	50.0	37.126459	200.0	16048883.0	0.742529	Y
5	IC 140-87130/5	400.0	292.951104	200.0	16797326.0	0.732378	Y
6	IC 140-87130/6	2000.0	1496.707792	200.0	18003846.0	0.748354	Y



Calibration

/ PCB-133

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

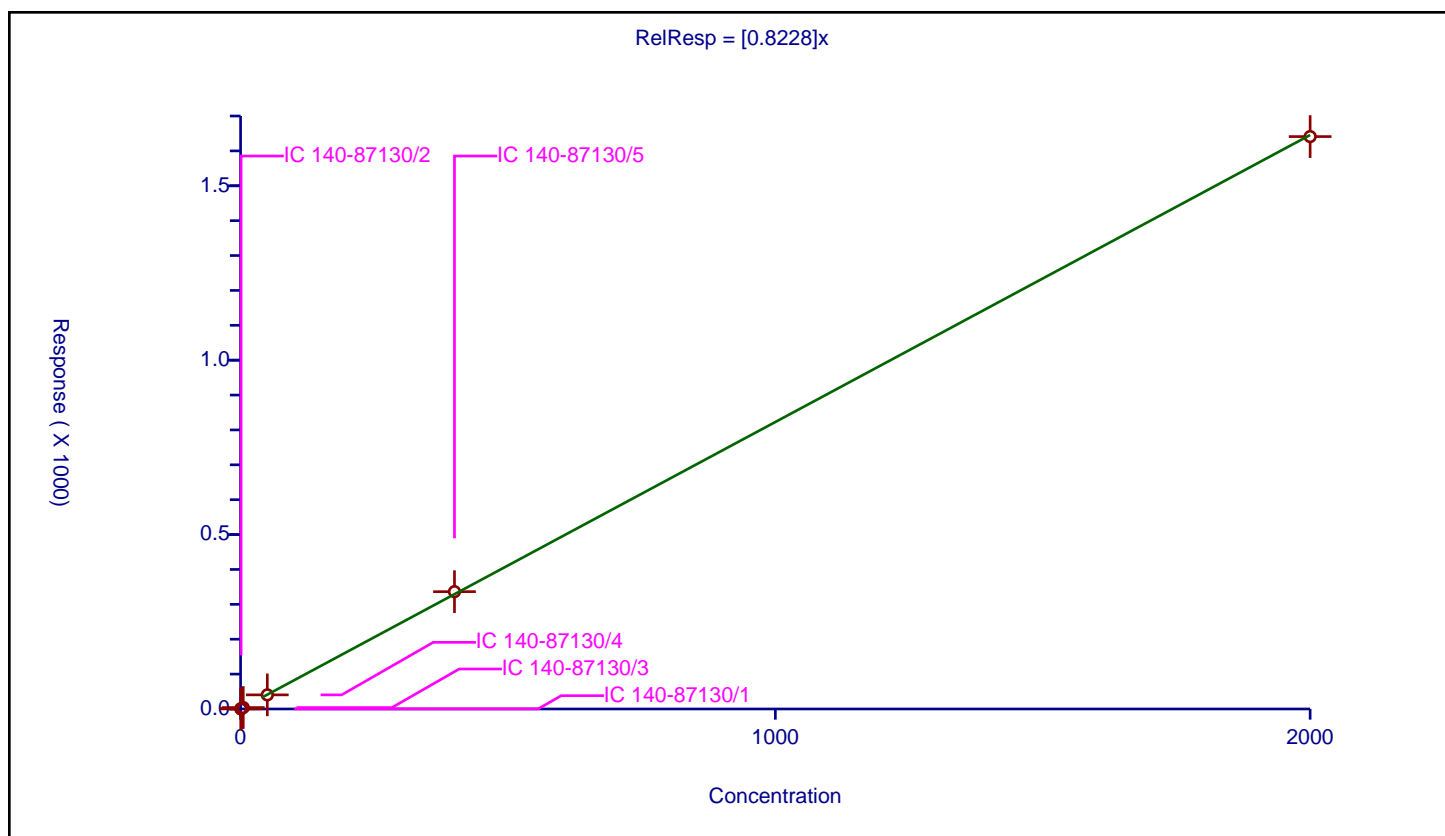
Curve Coefficients

Intercept: 0
 Slope: 0.8228

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.377678	200.0	17145311.0	0.755355	Y
2	IC 140-87130/2	1.0	0.890231	200.0	16075823.0	0.890231	Y
3	IC 140-87130/3	5.0	4.102987	200.0	15994835.0	0.820597	Y
4	IC 140-87130/4	50.0	40.451314	200.0	16048883.0	0.809026	Y
5	IC 140-87130/5	400.0	336.328449	200.0	16797326.0	0.840821	Y
6	IC 140-87130/6	2000.0	1641.094064	200.0	18003846.0	0.820547	Y



Calibration

/ PCB-134

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

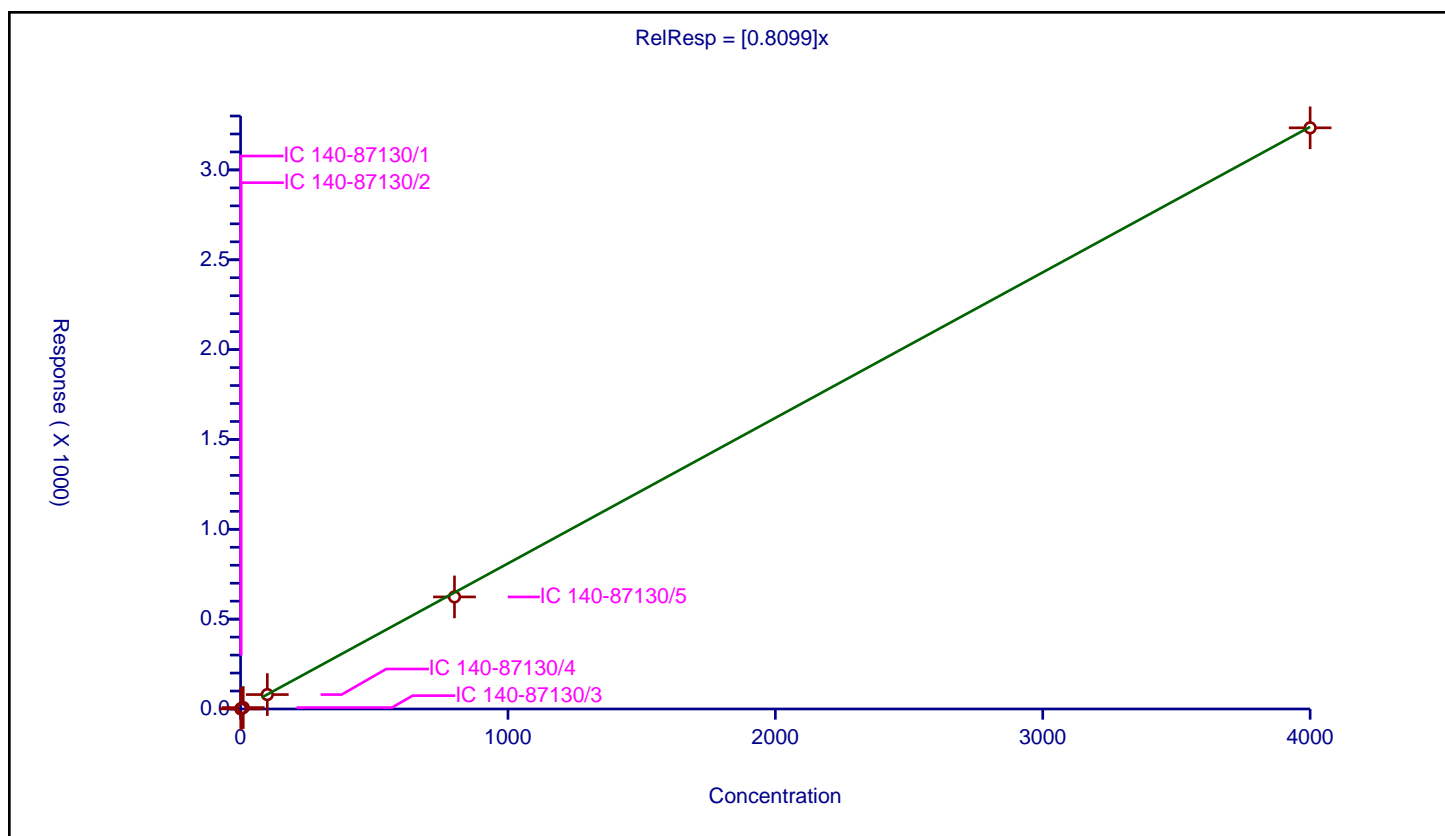
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Calibration

/ PCB-134/143

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

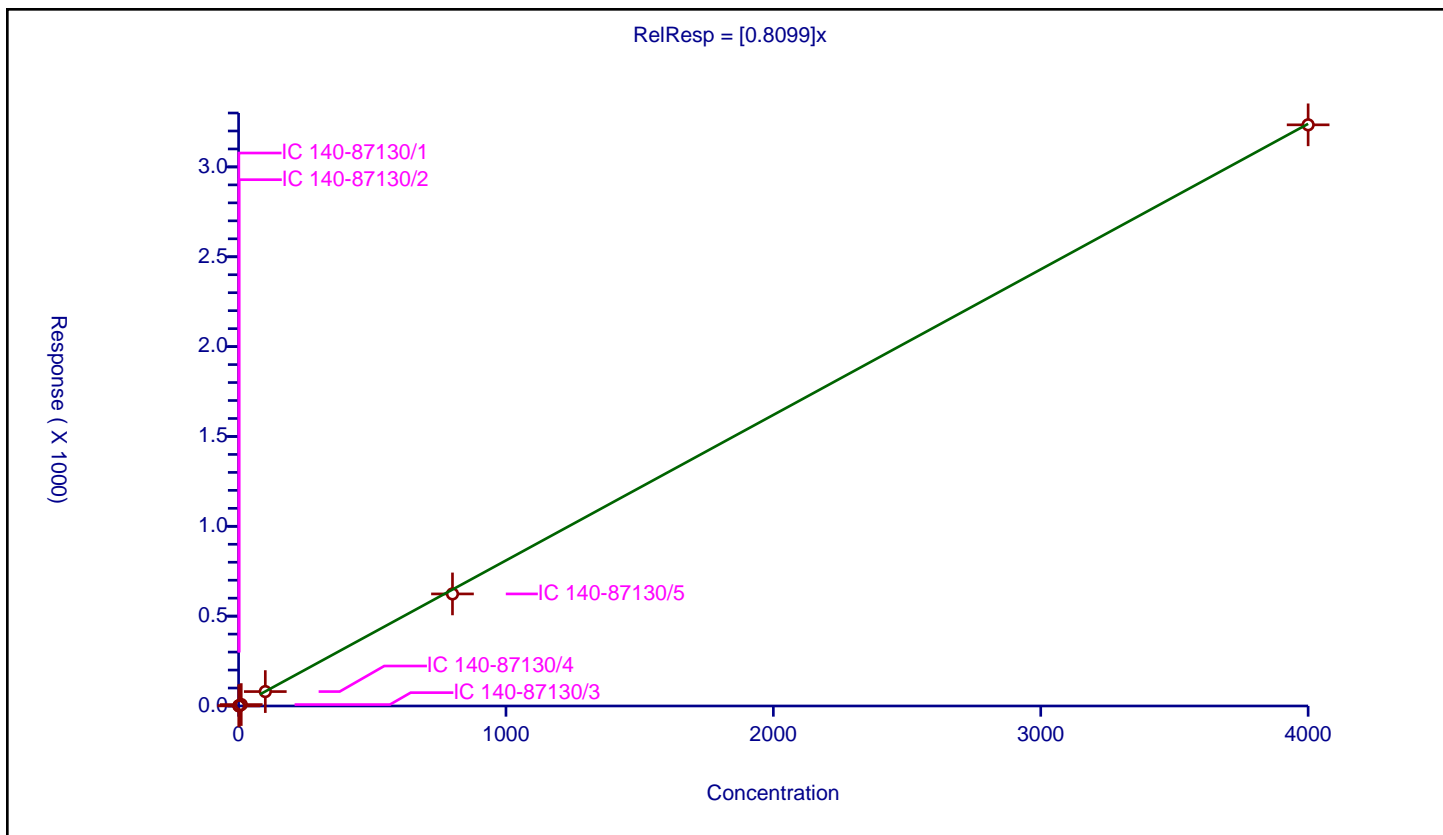
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Calibration

/ PCB-135

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

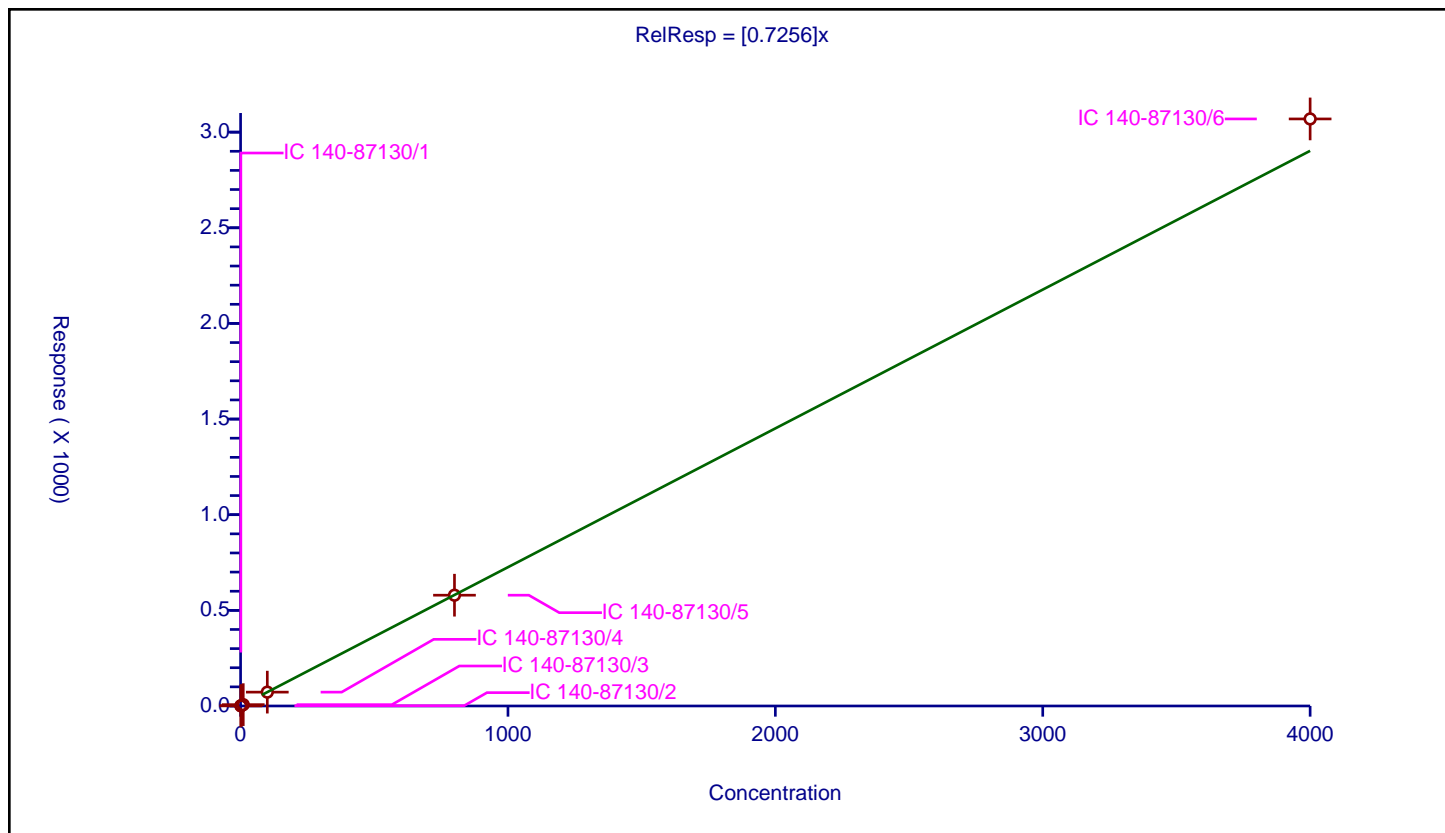
Curve Coefficients

Intercept: 0
 Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Calibration

/ PCB-135/151

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

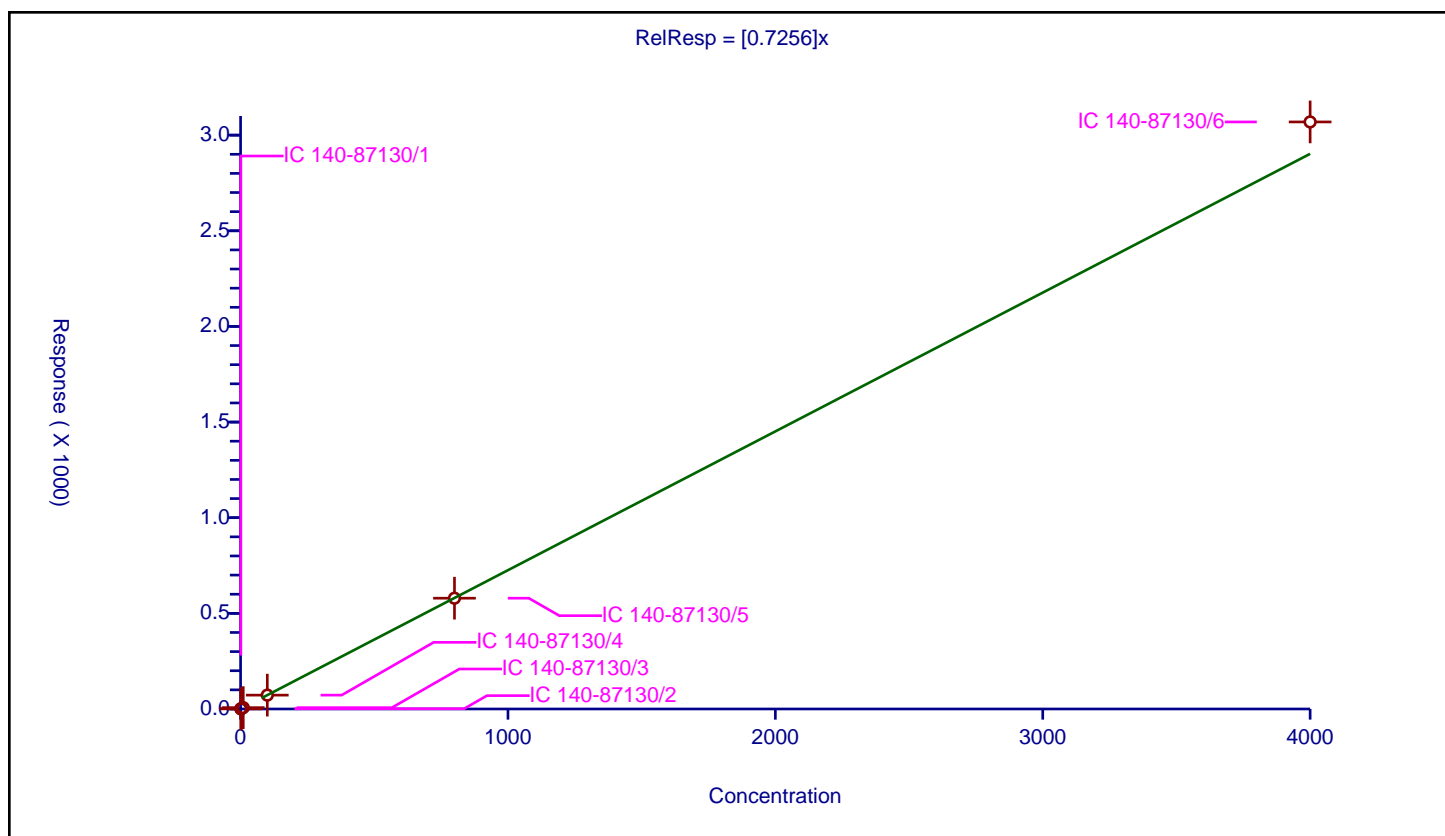
Curve Coefficients

Intercept: 0
 Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

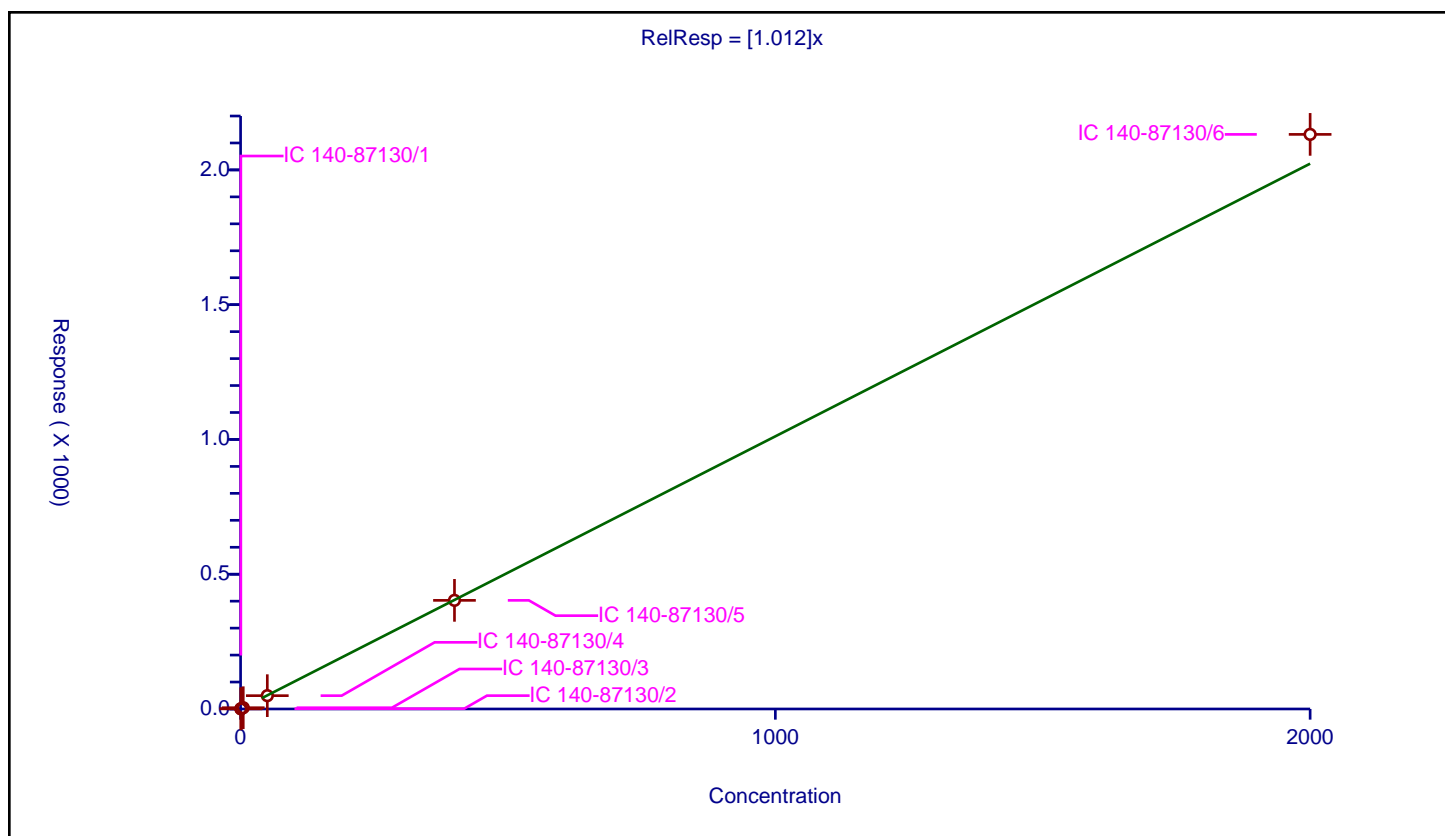
Curve Coefficients

Intercept: 0
Slope: 1.012

Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529337	100.0	6307321.0	1.058675	Y
2	IC 140-87130/2	1.0	1.000837	100.0	5566942.0	1.000837	Y
3	IC 140-87130/3	5.0	4.743653	100.0	5708638.0	0.948731	Y
4	IC 140-87130/4	50.0	49.401038	100.0	5786925.0	0.988021	Y
5	IC 140-87130/5	400.0	402.970667	100.0	5892178.0	1.007427	Y
6	IC 140-87130/6	2000.0	2131.795974	100.0	6037909.0	1.065898	Y



Calibration

/ PCB-137

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

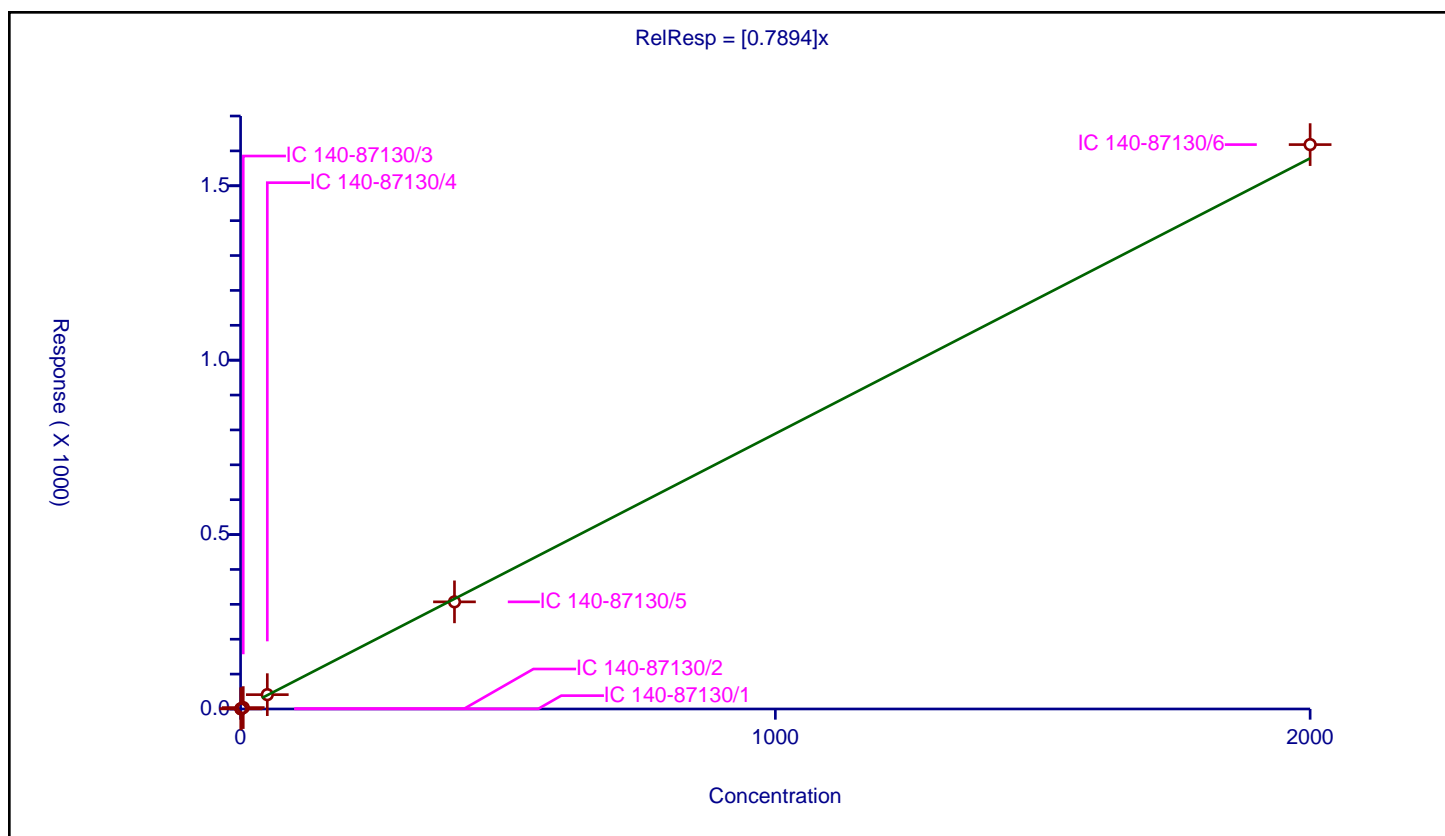
Curve Coefficients

Intercept: 0
Slope: 0.7894

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387068	200.0	17145311.0	0.774136	Y
2	IC 140-87130/2	1.0	0.766692	200.0	16075823.0	0.766692	Y
3	IC 140-87130/3	5.0	3.98191	200.0	15994835.0	0.796382	Y
4	IC 140-87130/4	50.0	41.105116	200.0	16048883.0	0.822102	Y
5	IC 140-87130/5	400.0	307.159556	200.0	16797326.0	0.767899	Y
6	IC 140-87130/6	2000.0	1618.01164	200.0	18003846.0	0.809006	Y



Calibration

/ PCB-138

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

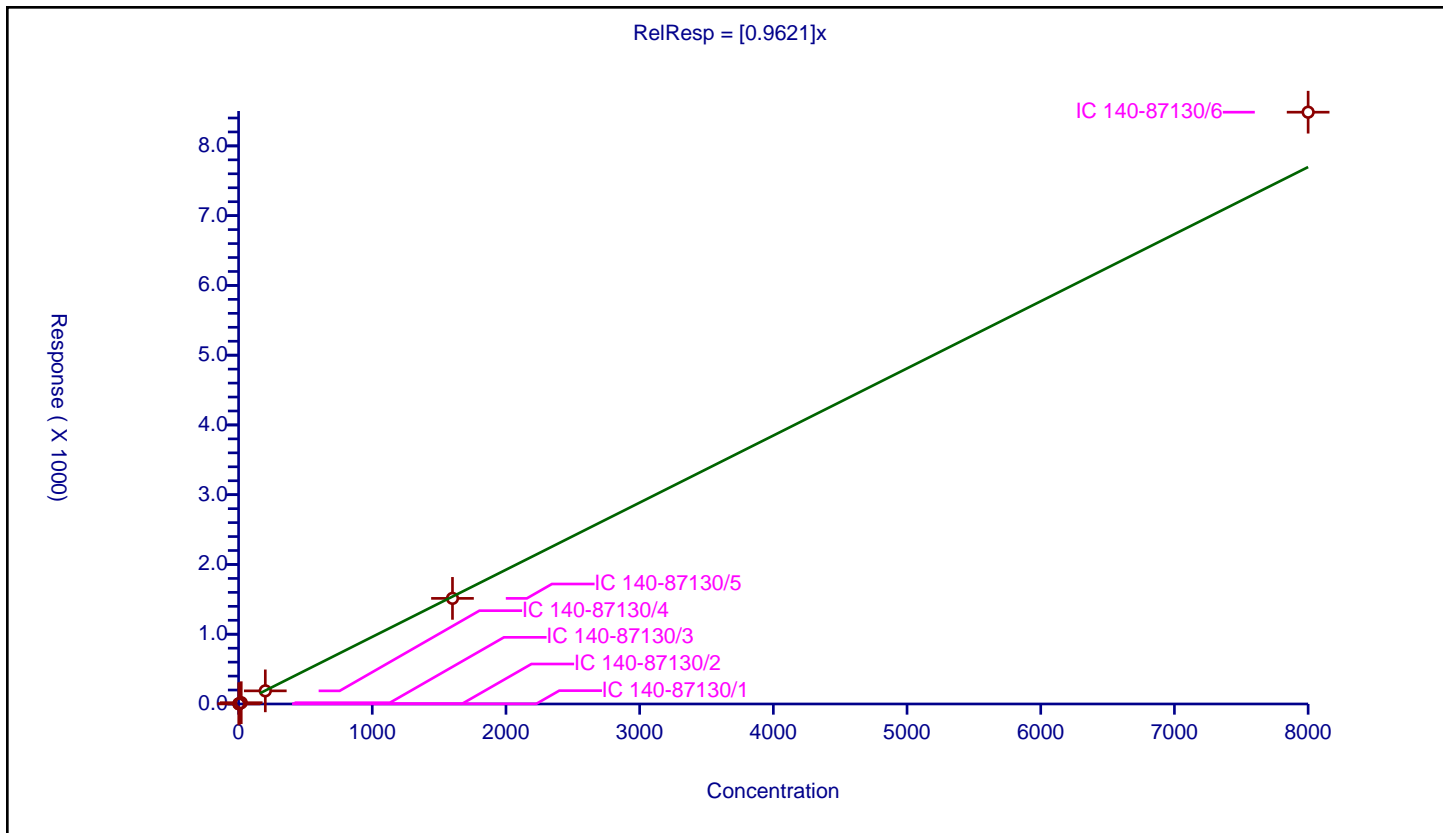
Curve Coefficients

Intercept: 0
Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

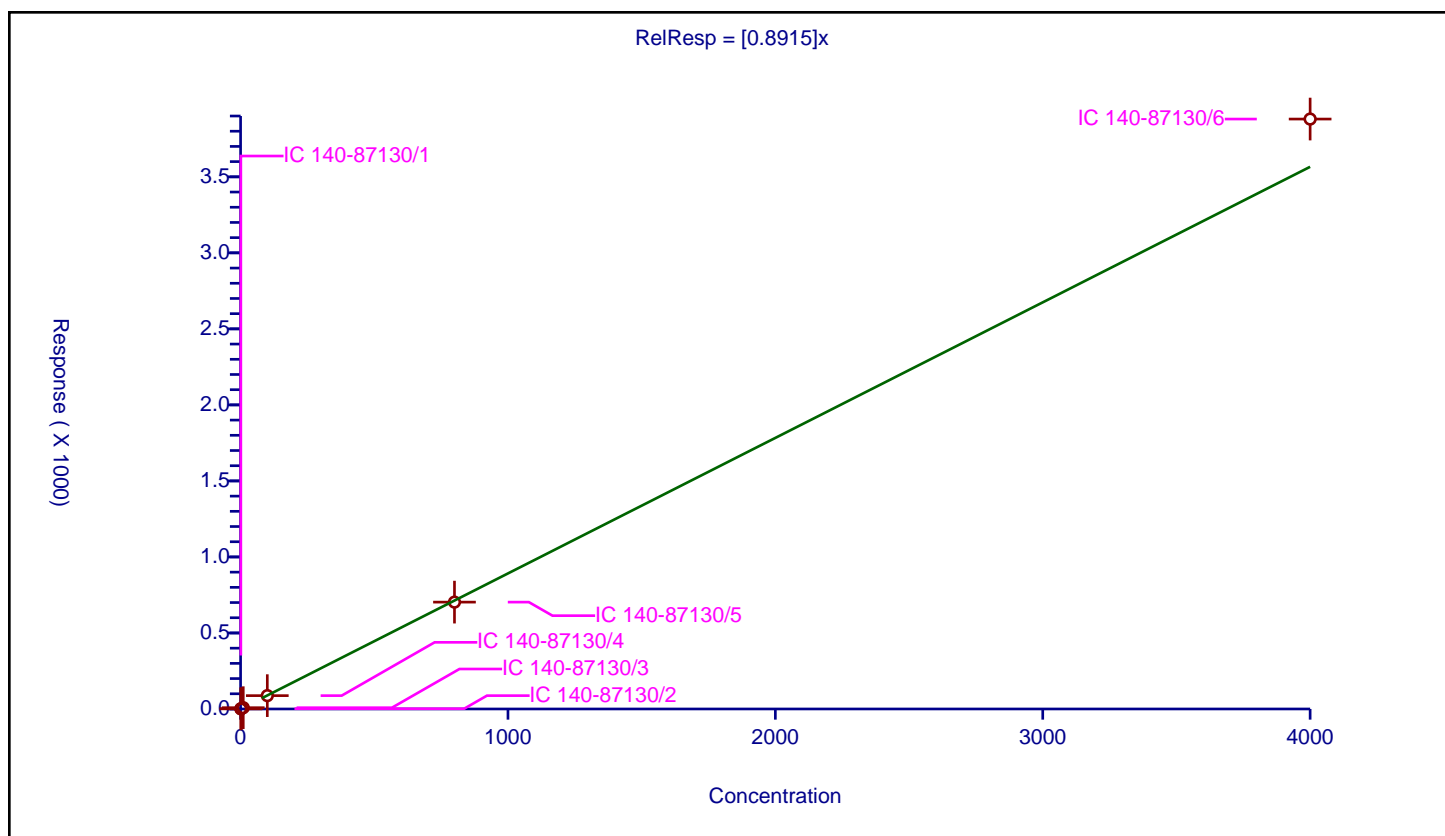
Curve Coefficients

Intercept: 0
Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Calibration

/ PCB-139/140

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

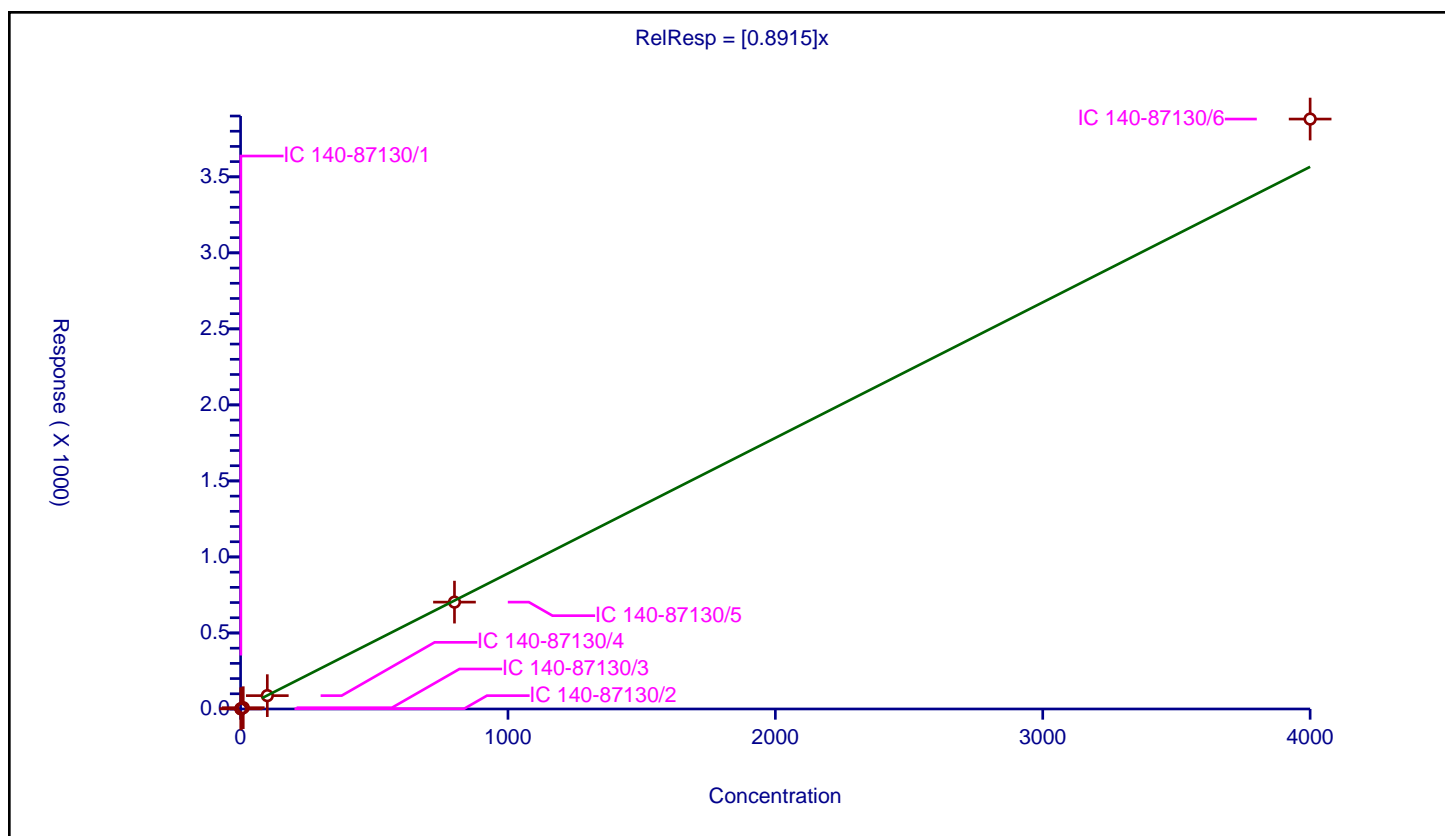
Curve Coefficients

Intercept: 0
 Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

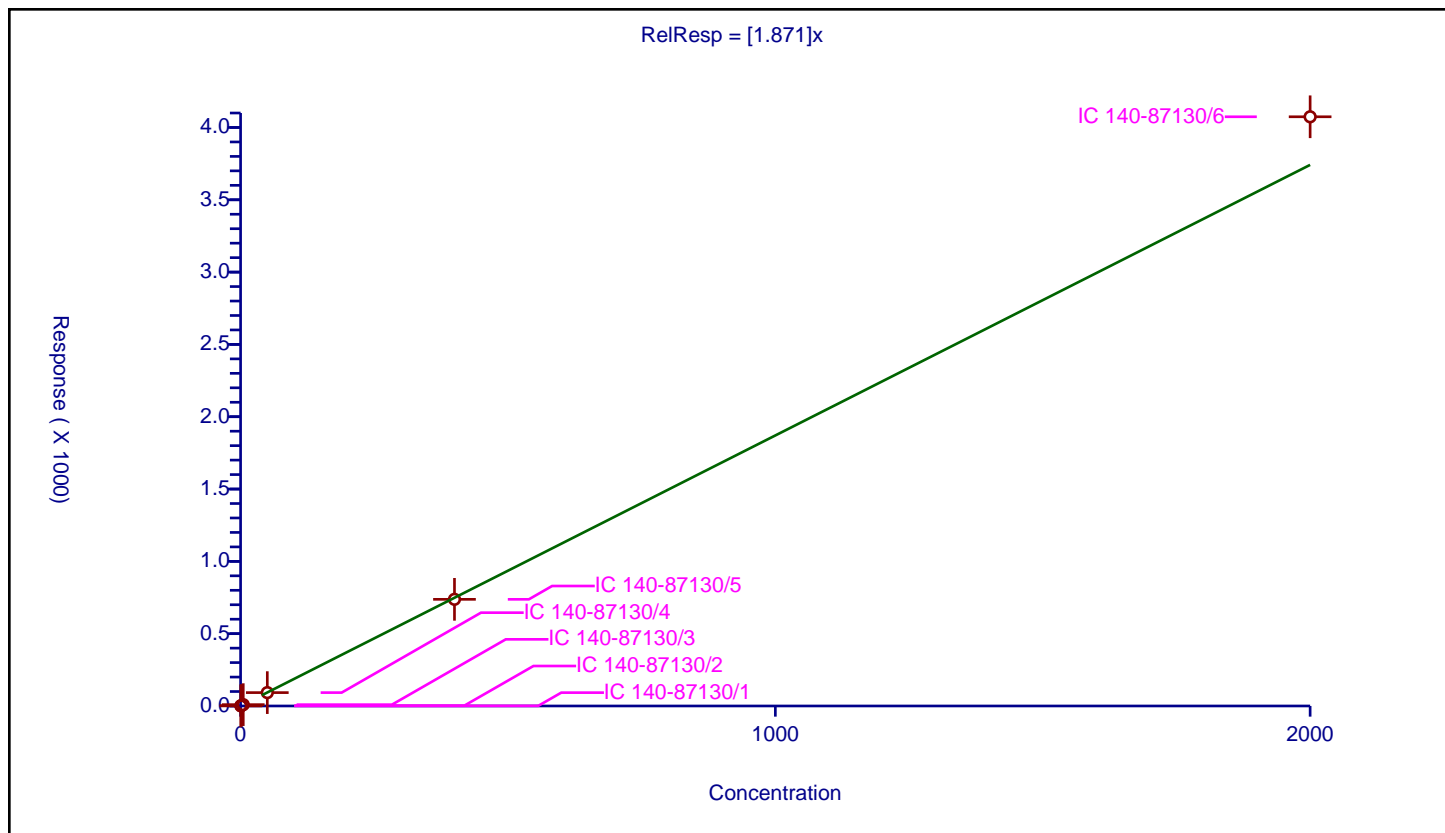
Curve Coefficients

Intercept: 0
Slope: 1.871

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.933302	100.0	5904521.0	1.866604	Y
2	IC 140-87130/2	1.0	1.758407	100.0	5442766.0	1.758407	Y
3	IC 140-87130/3	5.0	9.337166	100.0	5279032.0	1.867433	Y
4	IC 140-87130/4	50.0	92.543587	100.0	5474214.0	1.850872	Y
5	IC 140-87130/5	400.0	737.446207	100.0	5561618.0	1.843616	Y
6	IC 140-87130/6	2000.0	4073.908528	100.0	5672202.0	2.036954	Y



Calibration

/ PCB-140

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

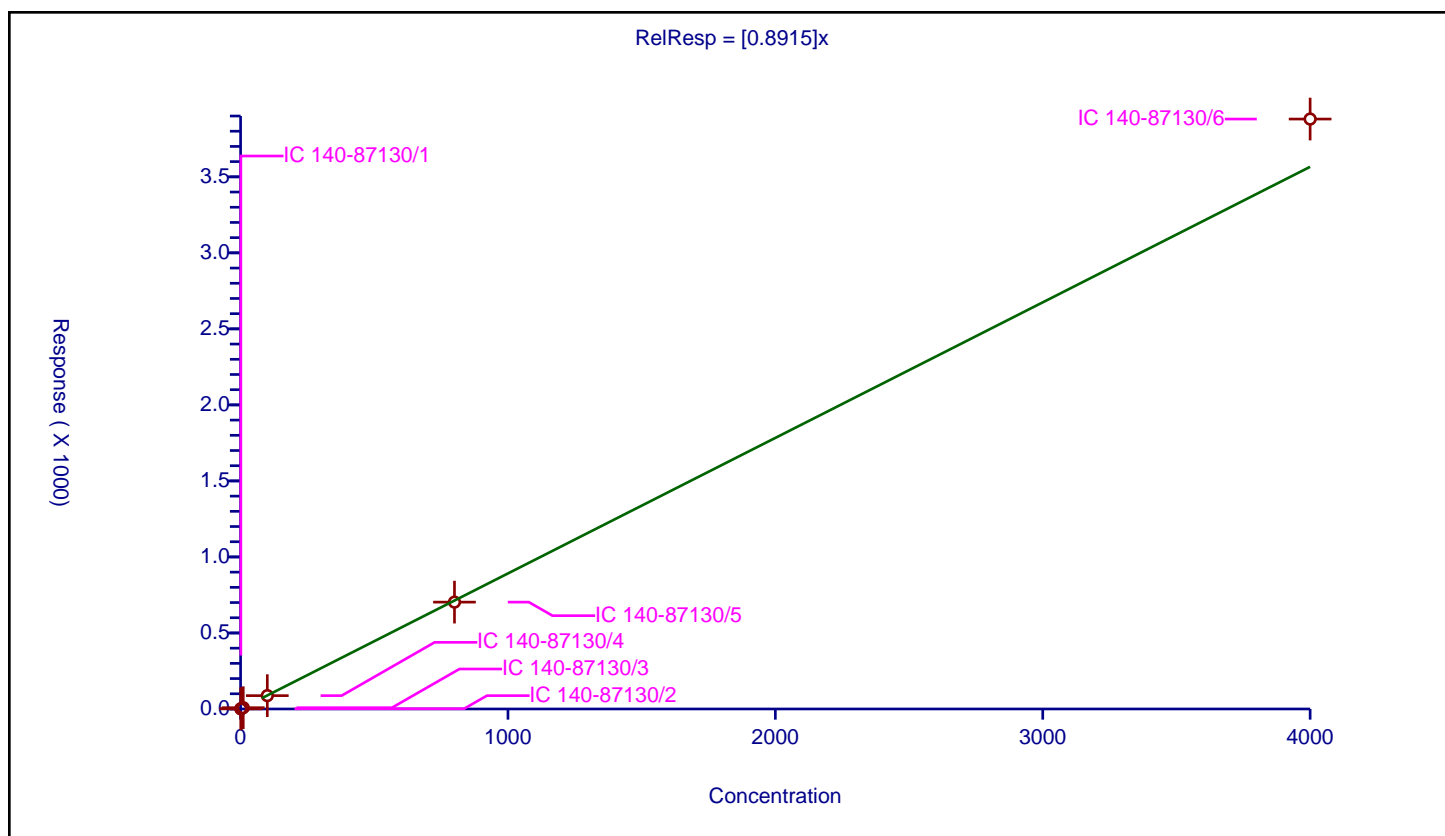
Curve Coefficients

Intercept: 0
Slope: 0.8915

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Calibration

/ PCB-141

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

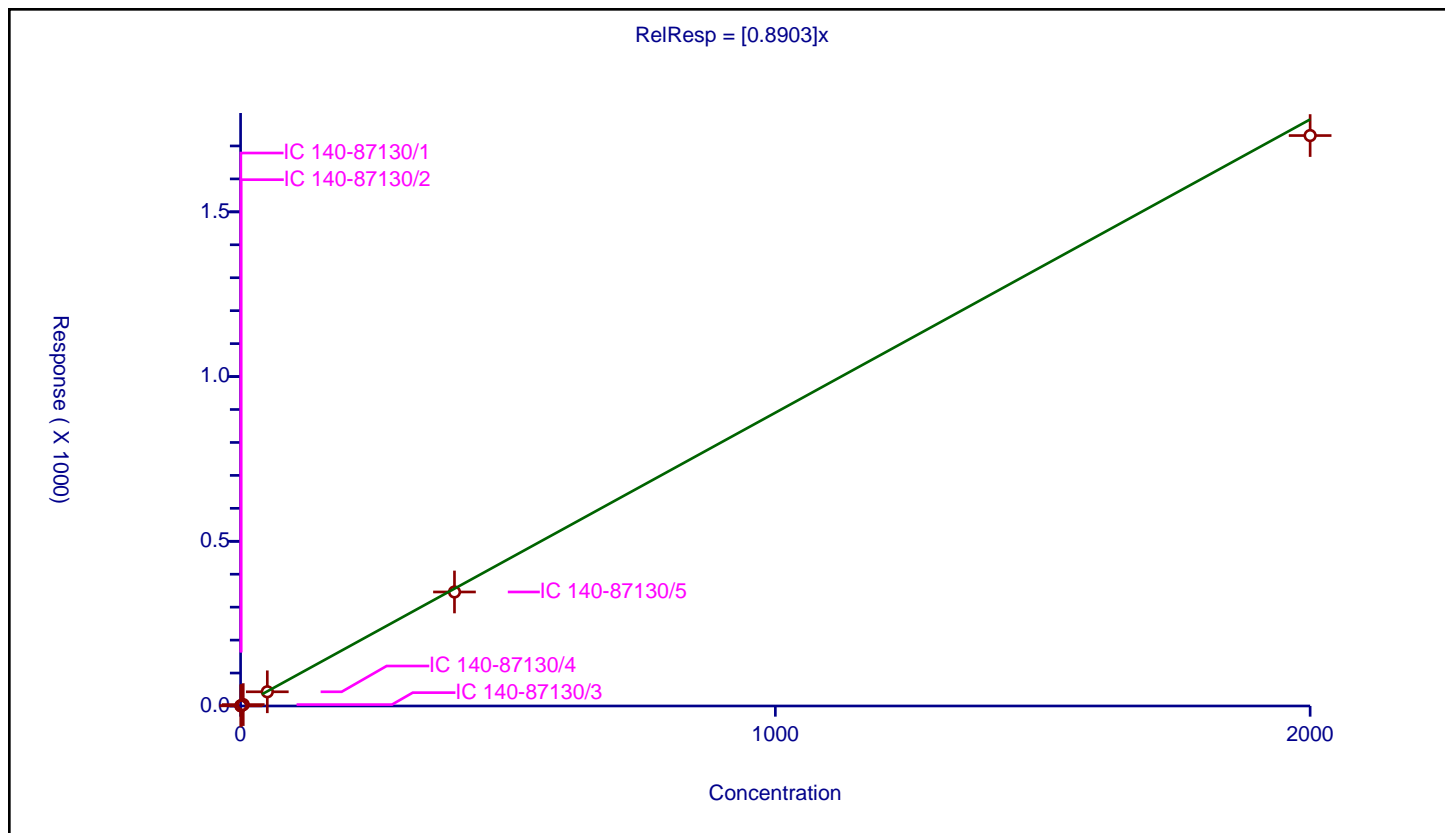
Curve Coefficients

Intercept: 0
 Slope: 0.8903

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48601	200.0	17145311.0	0.972021	Y
2	IC 140-87130/2	1.0	0.929644	200.0	16075823.0	0.929644	Y
3	IC 140-87130/3	5.0	4.232141	200.0	15994835.0	0.846428	Y
4	IC 140-87130/4	50.0	43.135127	200.0	16048883.0	0.862703	Y
5	IC 140-87130/5	400.0	346.061427	200.0	16797326.0	0.865154	Y
6	IC 140-87130/6	2000.0	1731.592927	200.0	18003846.0	0.865796	Y



Calibration

/ PCB-142

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

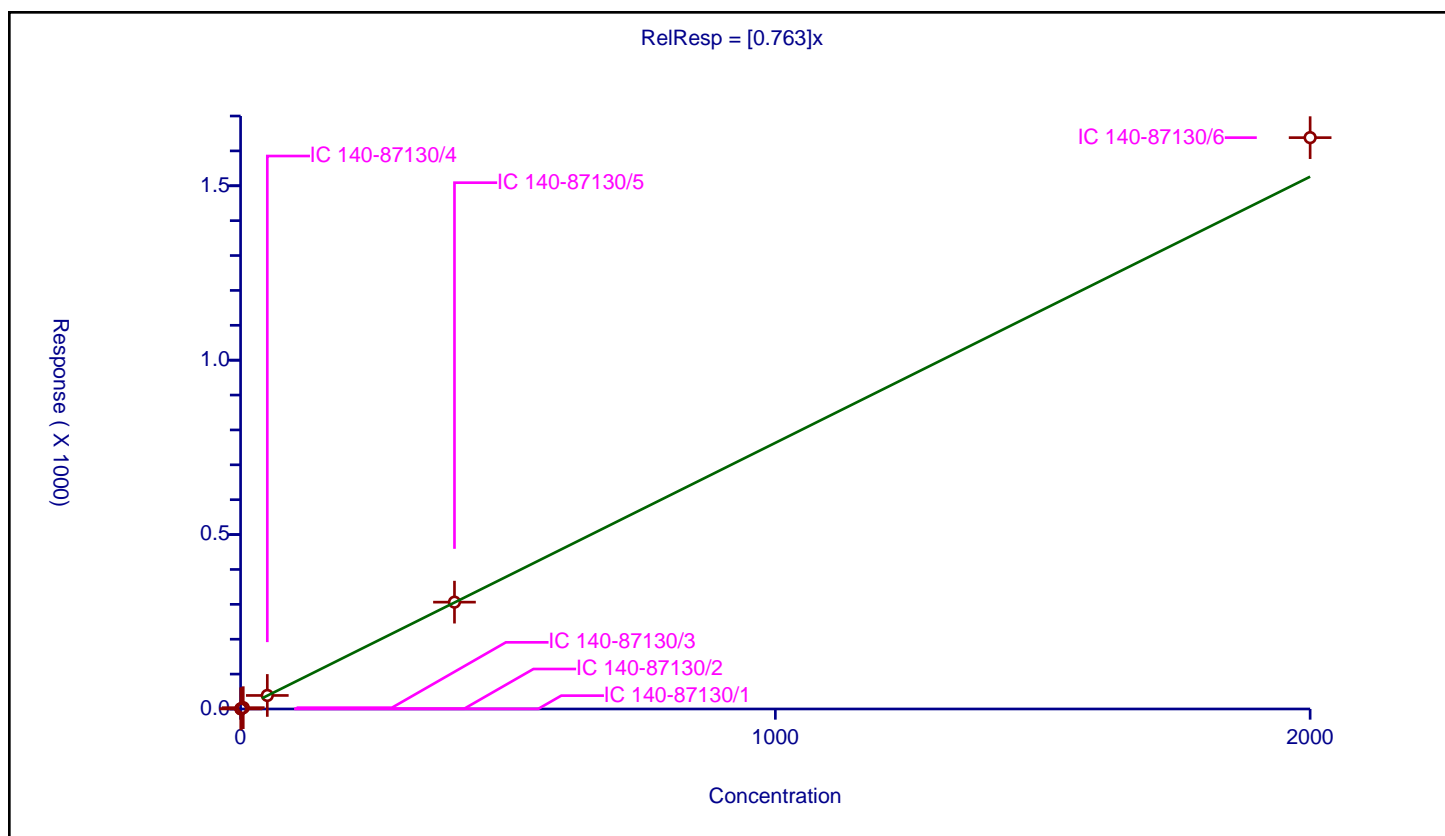
Curve Coefficients

Intercept: 0
Slope: 0.763

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.366992	200.0	17145311.0	0.733985	Y
2	IC 140-87130/2	1.0	0.729767	200.0	16075823.0	0.729767	Y
3	IC 140-87130/3	5.0	3.765791	200.0	15994835.0	0.753158	Y
4	IC 140-87130/4	50.0	38.820833	200.0	16048883.0	0.776417	Y
5	IC 140-87130/5	400.0	306.326043	200.0	16797326.0	0.765815	Y
6	IC 140-87130/6	2000.0	1638.013444	200.0	18003846.0	0.819007	Y



Calibration

/ PCB-143

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

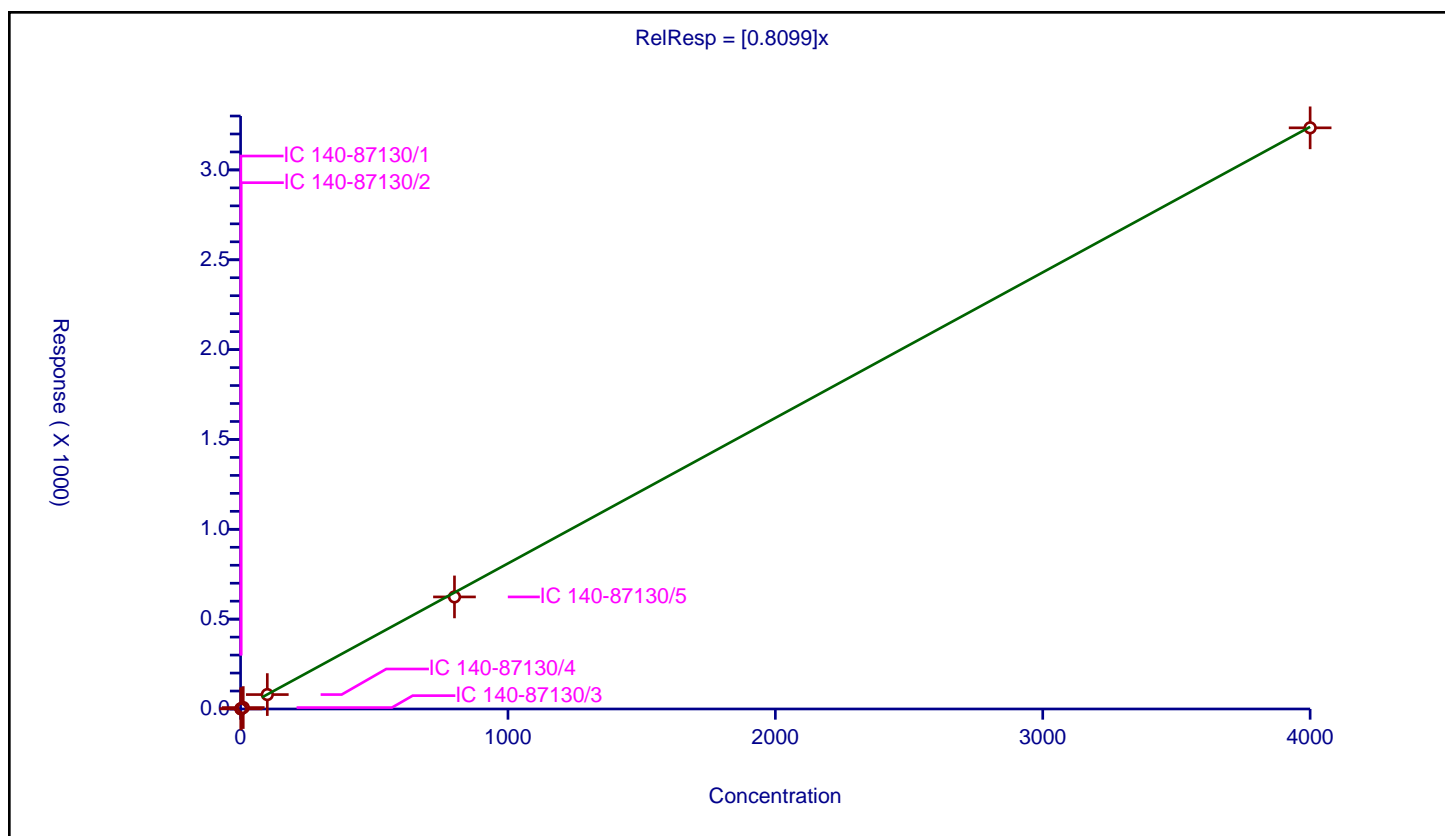
Curve Coefficients

Intercept: 0
 Slope: 0.8099

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Calibration

/ PCB-144

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

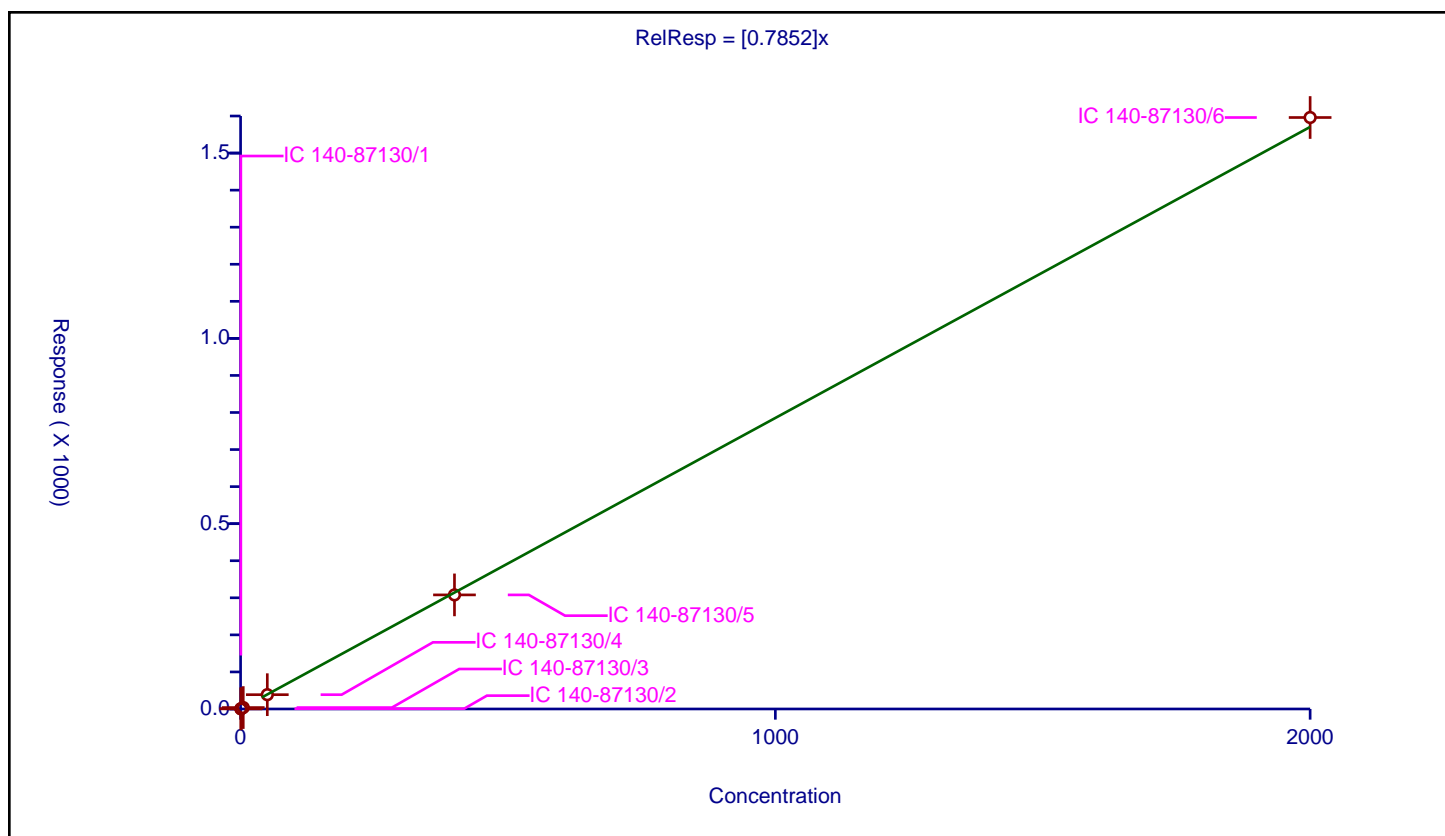
Curve Coefficients

Intercept: 0
Slope: 0.7852

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41279	100.0	6307321.0	0.82558	Y
2	IC 140-87130/2	1.0	0.783931	100.0	5566942.0	0.783931	Y
3	IC 140-87130/3	5.0	3.813957	100.0	5708638.0	0.762791	Y
4	IC 140-87130/4	50.0	38.575427	100.0	5786925.0	0.771509	Y
5	IC 140-87130/5	400.0	307.855126	100.0	5892178.0	0.769638	Y
6	IC 140-87130/6	2000.0	1595.950486	100.0	6037909.0	0.797975	Y



Calibration

/ PCB-145

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

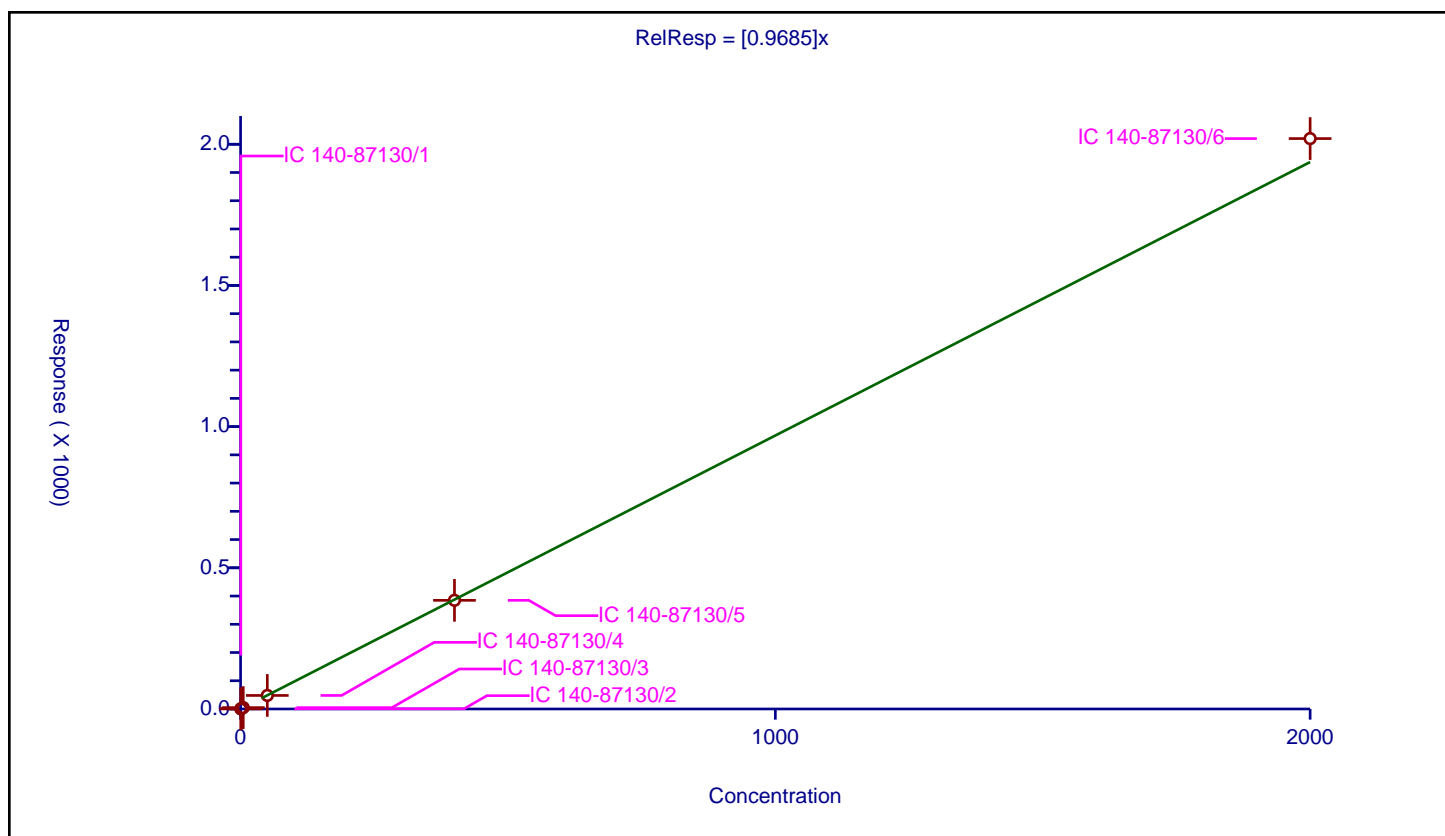
Curve Coefficients

Intercept: 0
Slope: 0.9685

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.498246	100.0	6307321.0	0.996493	Y
2	IC 140-87130/2	1.0	0.92011	100.0	5566942.0	0.92011	Y
3	IC 140-87130/3	5.0	4.817839	100.0	5708638.0	0.963568	Y
4	IC 140-87130/4	50.0	47.93449	100.0	5786925.0	0.95869	Y
5	IC 140-87130/5	400.0	384.788291	100.0	5892178.0	0.961971	Y
6	IC 140-87130/6	2000.0	2020.098349	100.0	6037909.0	1.010049	Y



Calibration

/ PCB-146

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

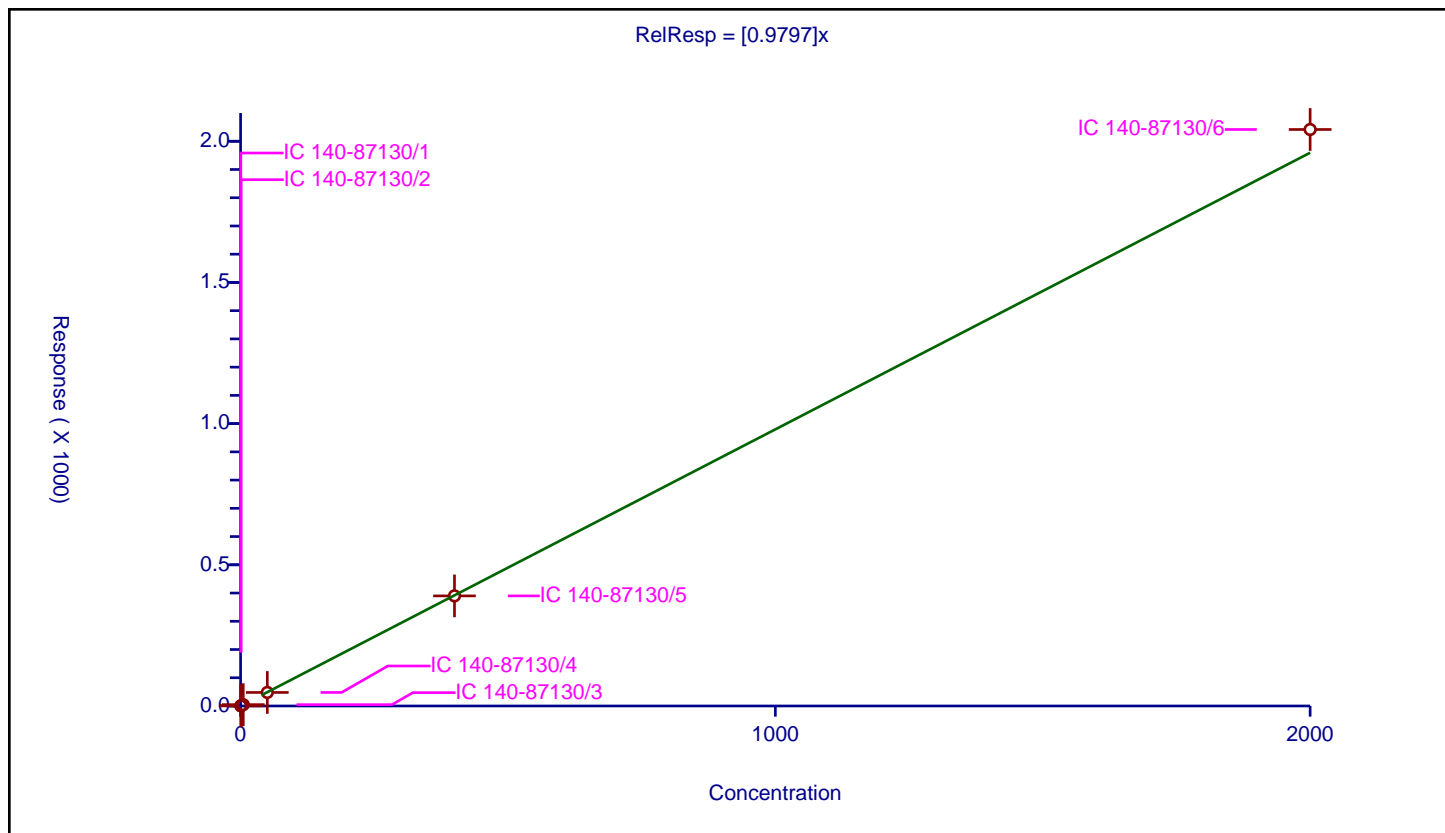
Curve Coefficients

Intercept: 0
Slope: 0.9797

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.49035	200.0	17145311.0	0.9807	Y
2	IC 140-87130/2	1.0	0.996254	200.0	16075823.0	0.996254	Y
3	IC 140-87130/3	5.0	4.734766	200.0	15994835.0	0.946953	Y
4	IC 140-87130/4	50.0	47.921154	200.0	16048883.0	0.958423	Y
5	IC 140-87130/5	400.0	389.923384	200.0	16797326.0	0.974808	Y
6	IC 140-87130/6	2000.0	2041.6516	200.0	18003846.0	1.020826	Y



Calibration

/ PCB-147

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

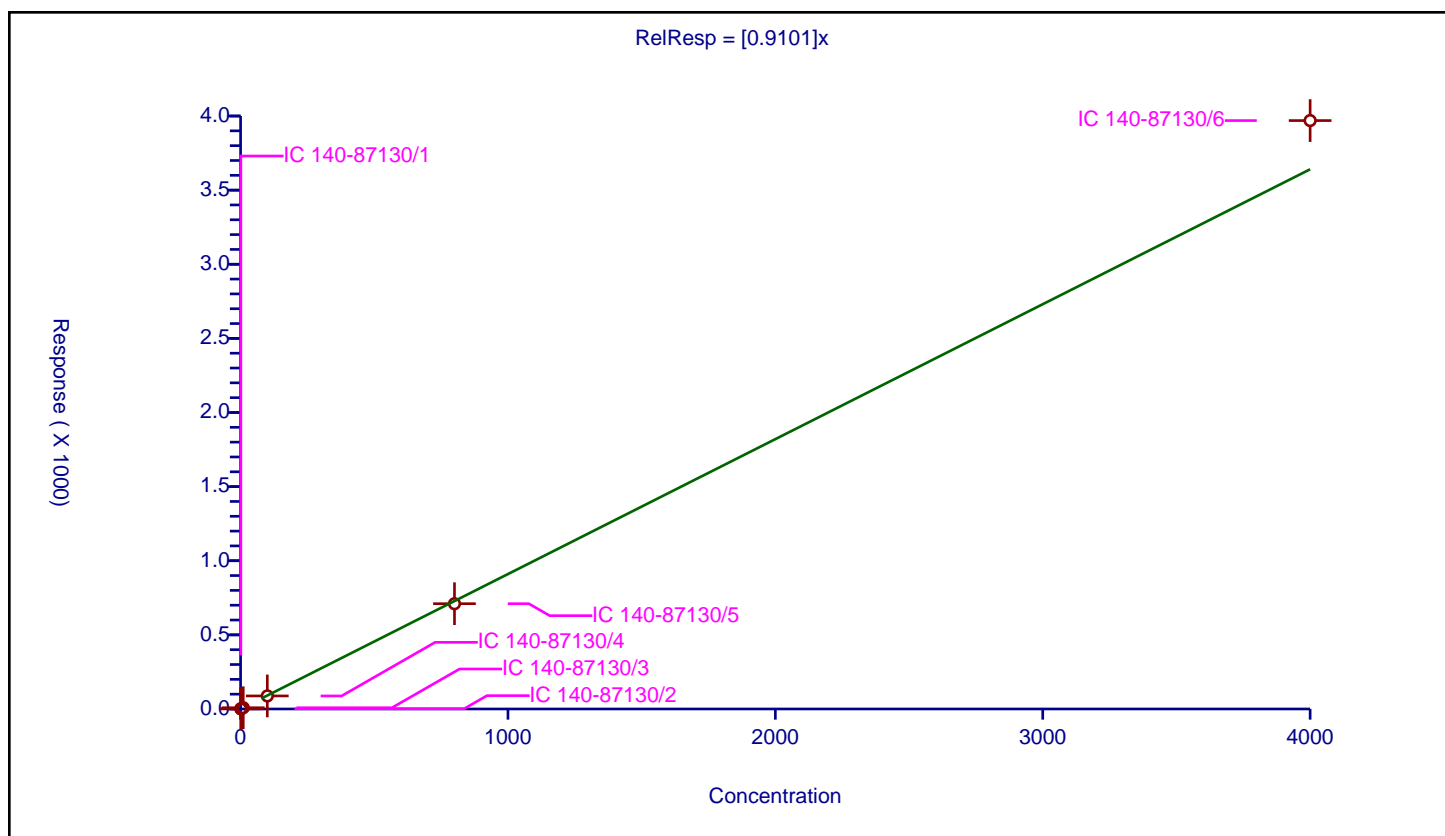
Curve Coefficients

Intercept: 0
Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Calibration

/ PCB-147/149

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

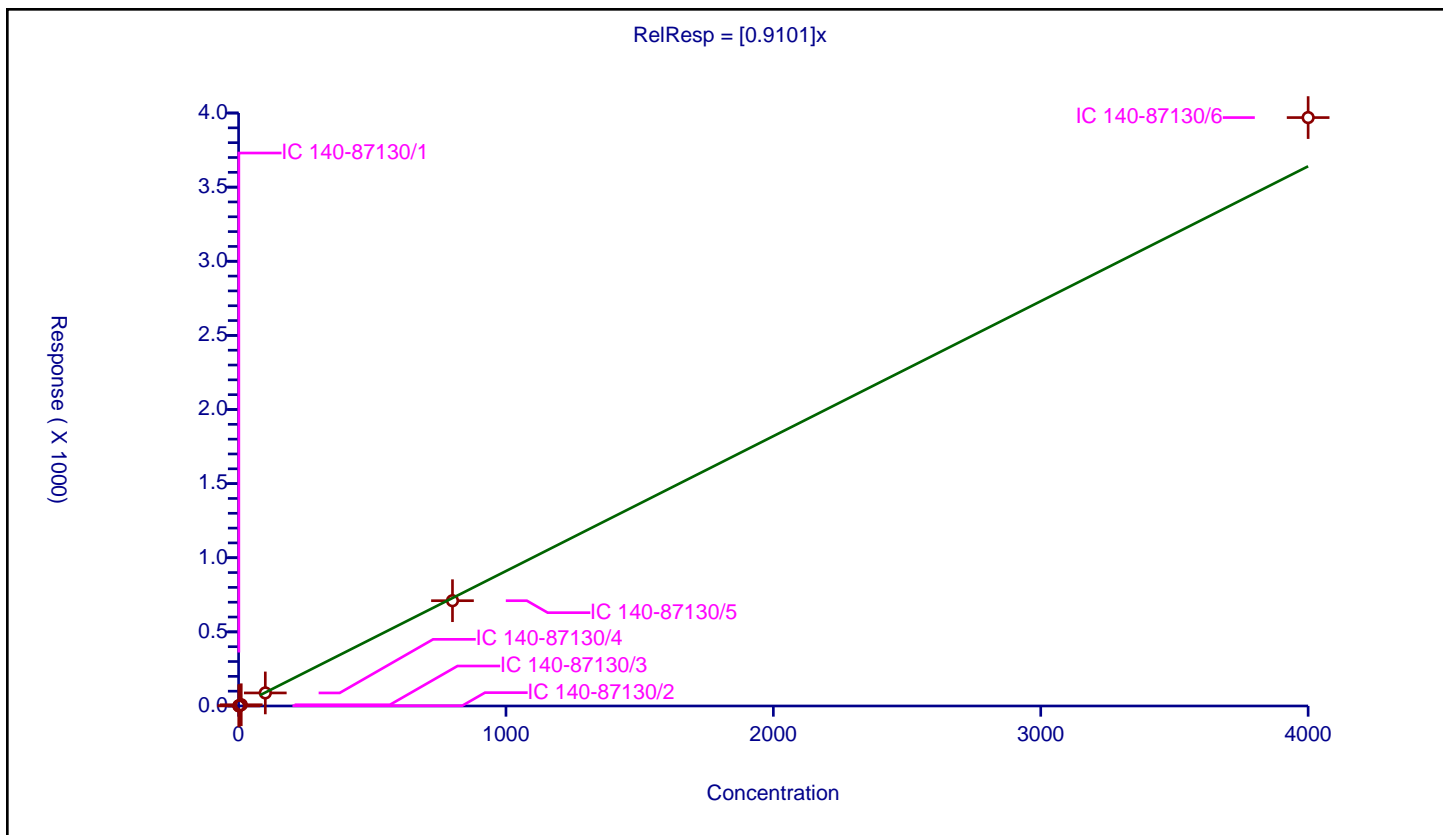
Curve Coefficients

Intercept: 0
Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Calibration

/ PCB-148

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

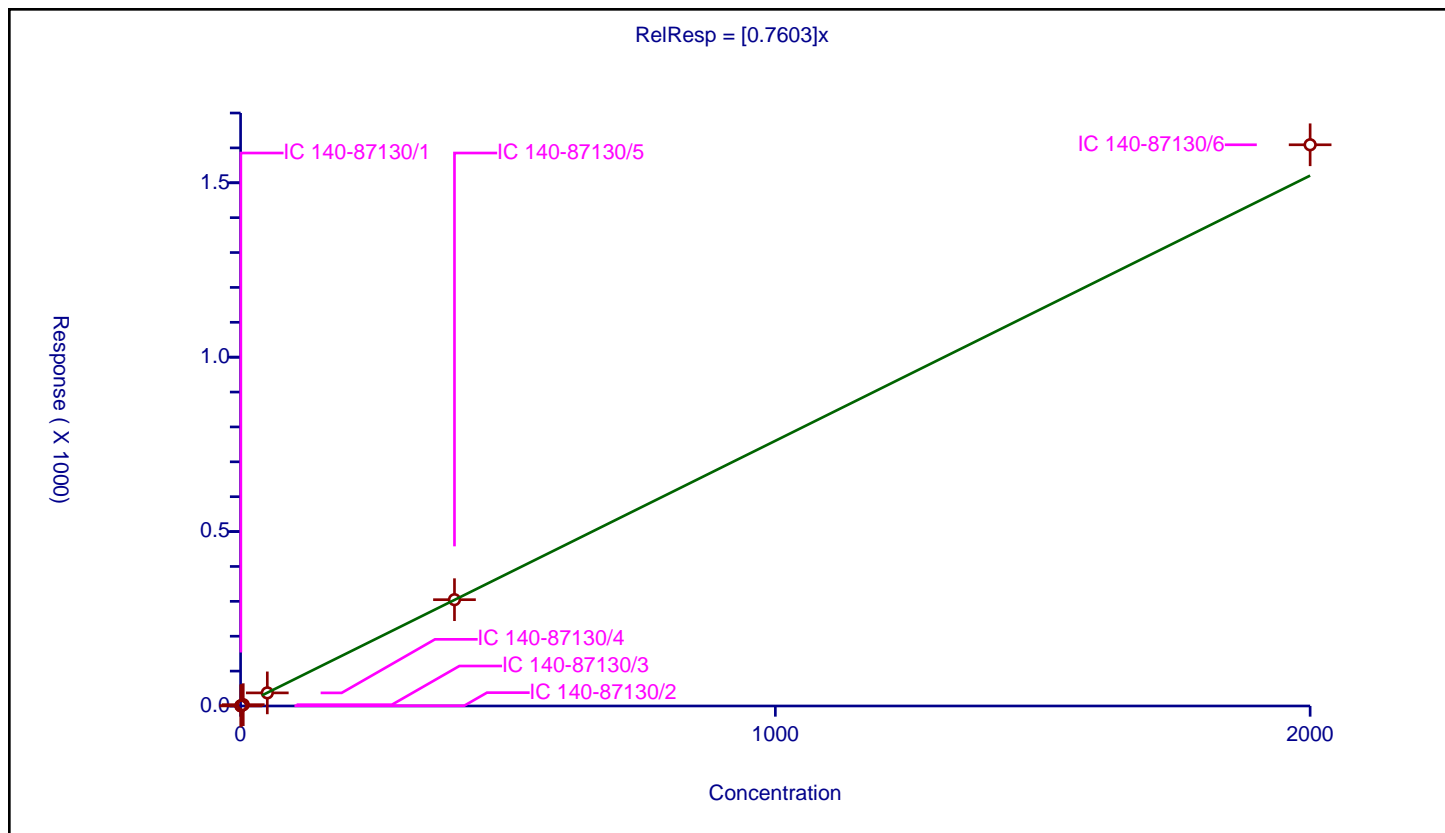
Curve Coefficients

Intercept: 0
Slope: 0.7603

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.382302	100.0	6307321.0	0.764604	Y
2	IC 140-87130/2	1.0	0.725138	100.0	5566942.0	0.725138	Y
3	IC 140-87130/3	5.0	3.767291	100.0	5708638.0	0.753458	Y
4	IC 140-87130/4	50.0	37.606414	100.0	5786925.0	0.752128	Y
5	IC 140-87130/5	400.0	304.766658	100.0	5892178.0	0.761917	Y
6	IC 140-87130/6	2000.0	1608.934318	100.0	6037909.0	0.804467	Y



Calibration

/ PCB-149

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

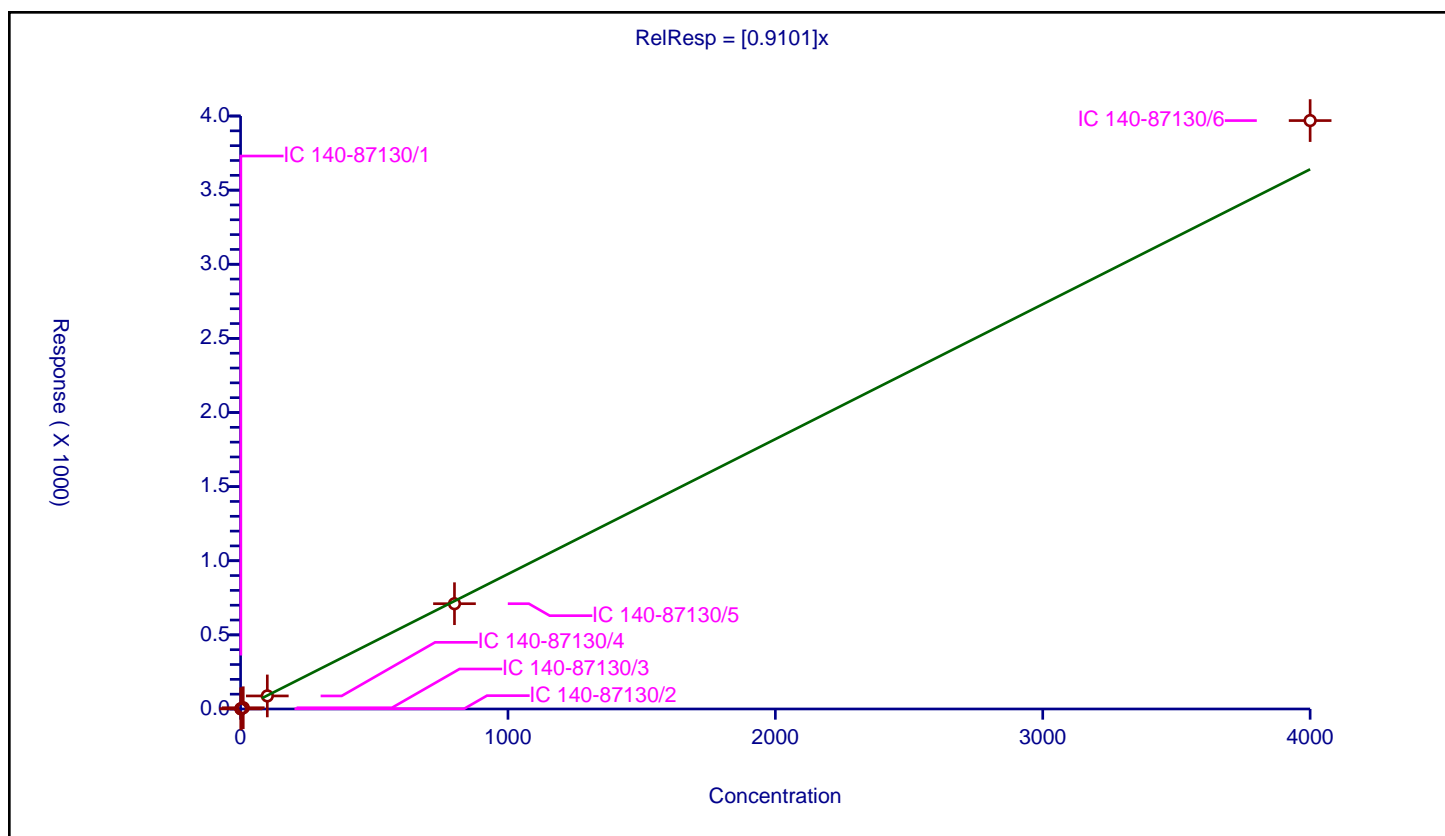
Curve Coefficients

Intercept: 0
 Slope: 0.9101

Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Calibration

/ PCB-15

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

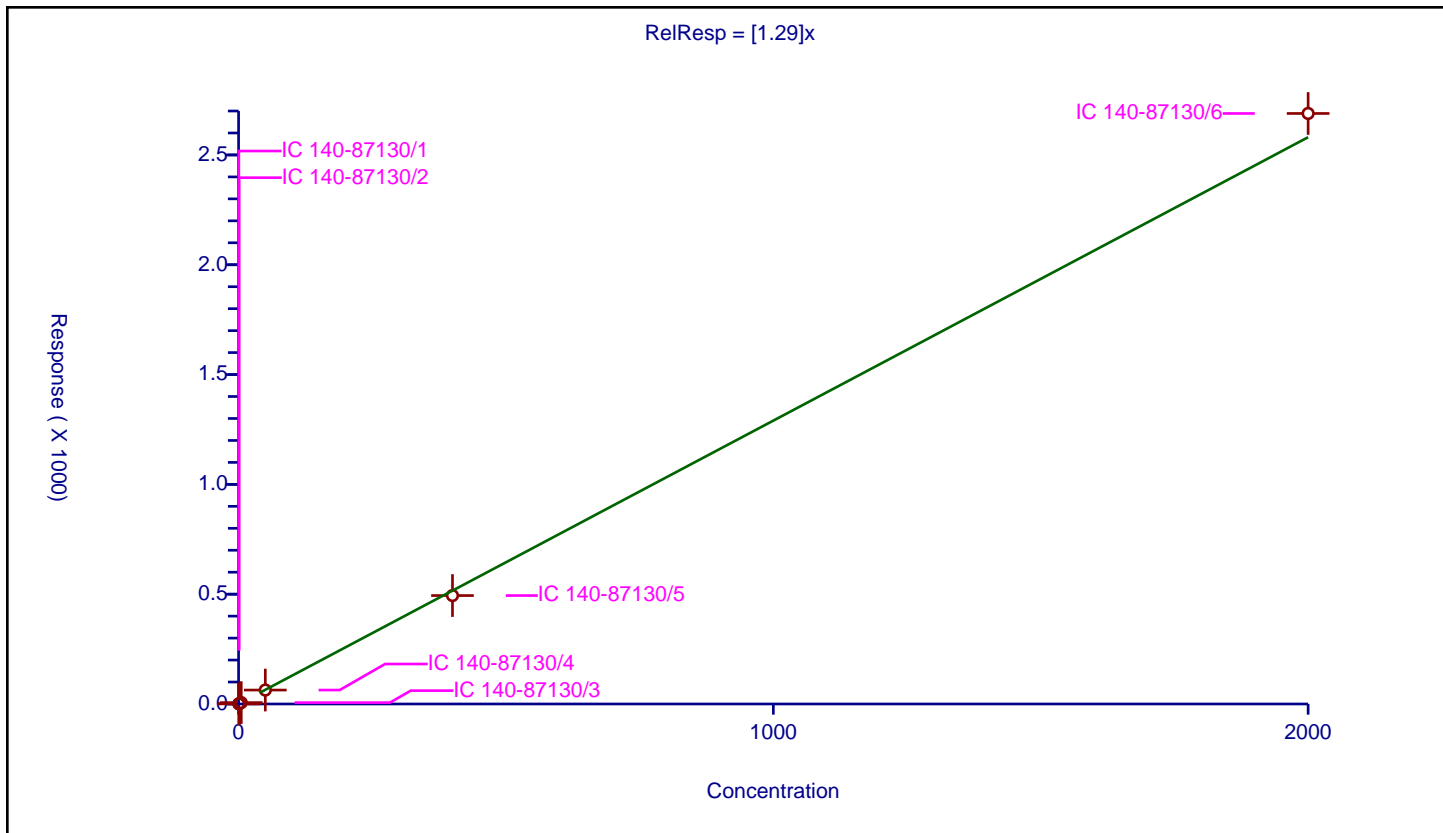
Curve Coefficients

Intercept: 0
 Slope: 1.29

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673614	100.0	9483770.0	1.347228	Y
2	IC 140-87130/2	1.0	1.291522	100.0	8819361.0	1.291522	Y
3	IC 140-87130/3	5.0	6.271571	100.0	8806182.0	1.254314	Y
4	IC 140-87130/4	50.0	63.487669	100.0	8855244.0	1.269753	Y
5	IC 140-87130/5	400.0	493.815295	100.0	9575202.0	1.234538	Y
6	IC 140-87130/6	2000.0	2688.84542	100.0	10031243.0	1.344423	Y



Calibration

/ PCB-150

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

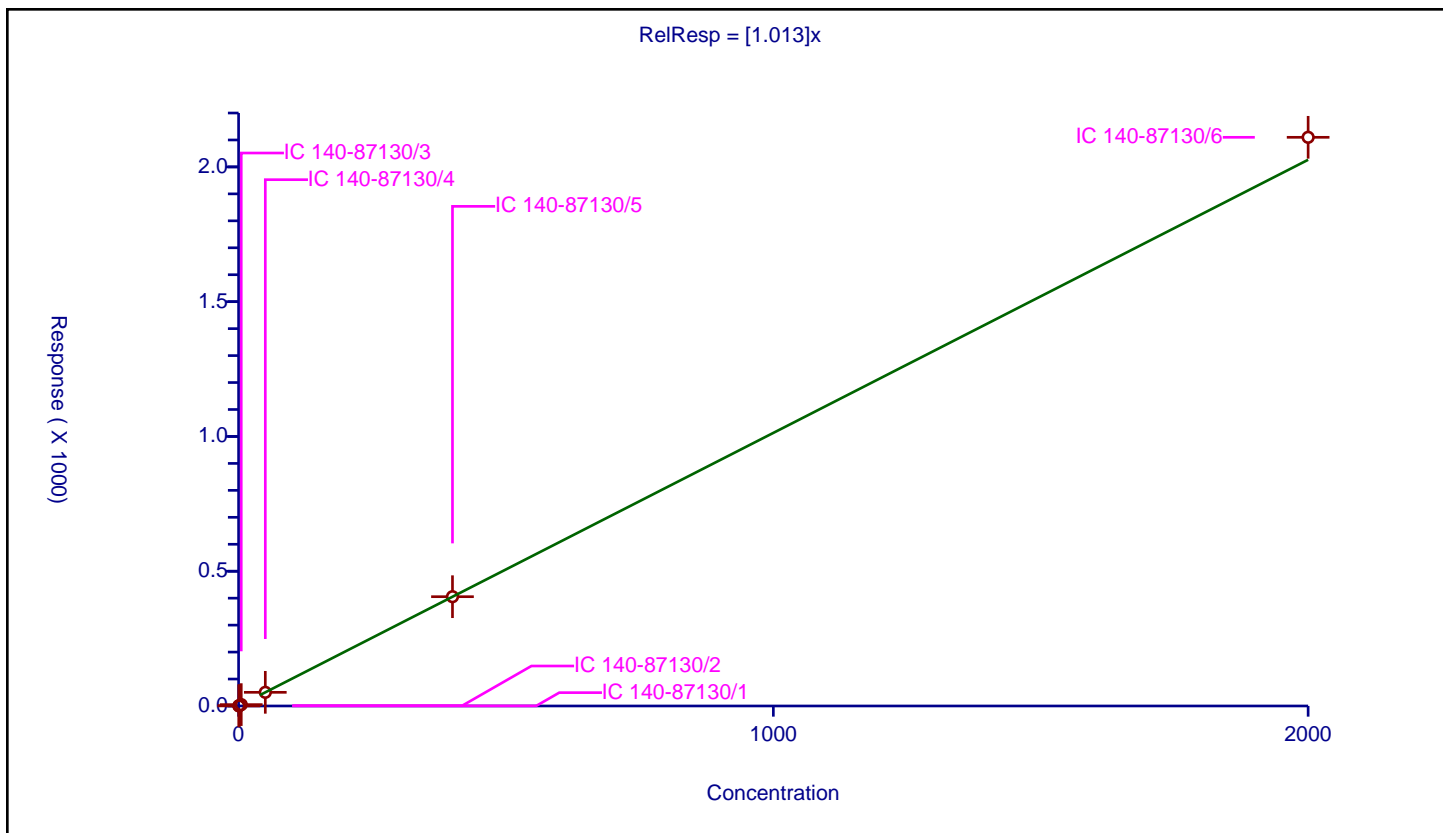
Curve Coefficients

Intercept: 0
Slope: 1.013

Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48152	100.0	6307321.0	0.96304	Y
2	IC 140-87130/2	1.0	1.00795	100.0	5566942.0	1.00795	Y
3	IC 140-87130/3	5.0	5.130628	100.0	5708638.0	1.026126	Y
4	IC 140-87130/4	50.0	50.685381	100.0	5786925.0	1.013708	Y
5	IC 140-87130/5	400.0	405.467316	100.0	5892178.0	1.013668	Y
6	IC 140-87130/6	2000.0	2109.852633	100.0	6037909.0	1.054926	Y



Calibration

/ PCB-151

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

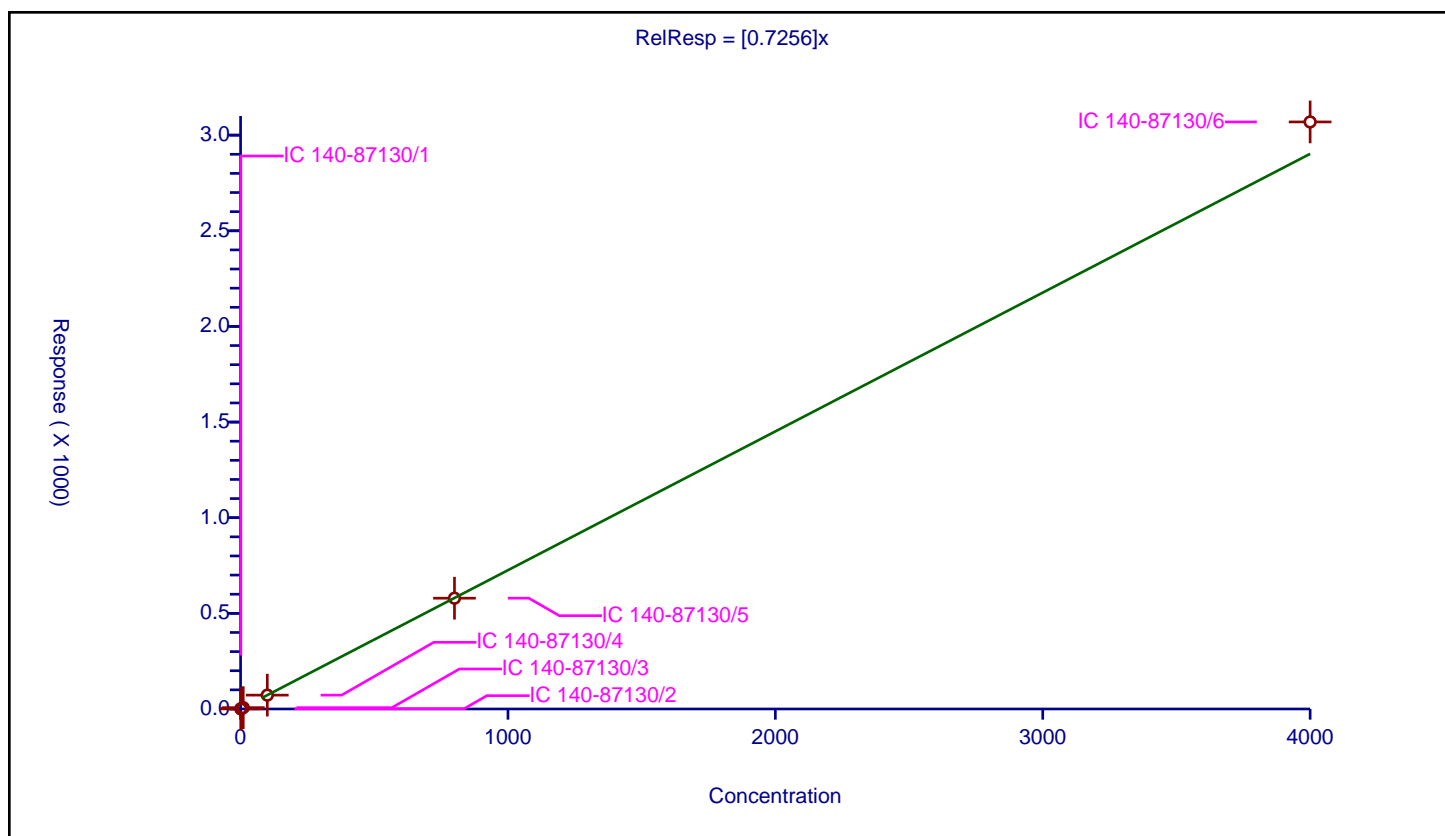
Curve Coefficients

Intercept: 0
 Slope: 0.7256

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Calibration

/ PCB-152

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

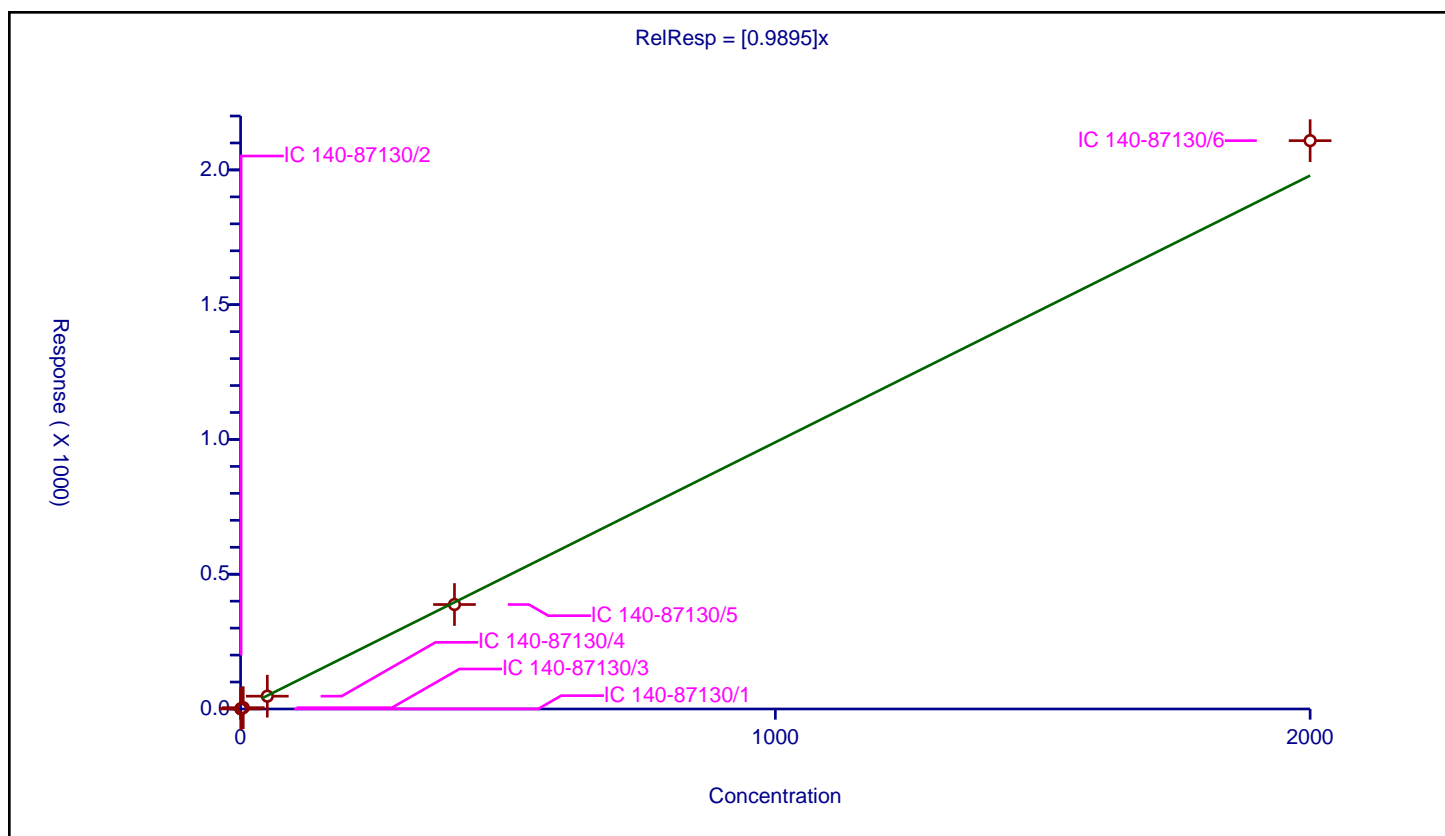
Curve Coefficients

Intercept: 0
 Slope: 0.9895

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492412	100.0	6307321.0	0.984824	Y
2	IC 140-87130/2	1.0	0.995142	100.0	5566942.0	0.995142	Y
3	IC 140-87130/3	5.0	4.912643	100.0	5708638.0	0.982529	Y
4	IC 140-87130/4	50.0	47.570428	100.0	5786925.0	0.951409	Y
5	IC 140-87130/5	400.0	387.571947	100.0	5892178.0	0.96893	Y
6	IC 140-87130/6	2000.0	2108.613131	100.0	6037909.0	1.054307	Y



Calibration

/ PCB-153

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

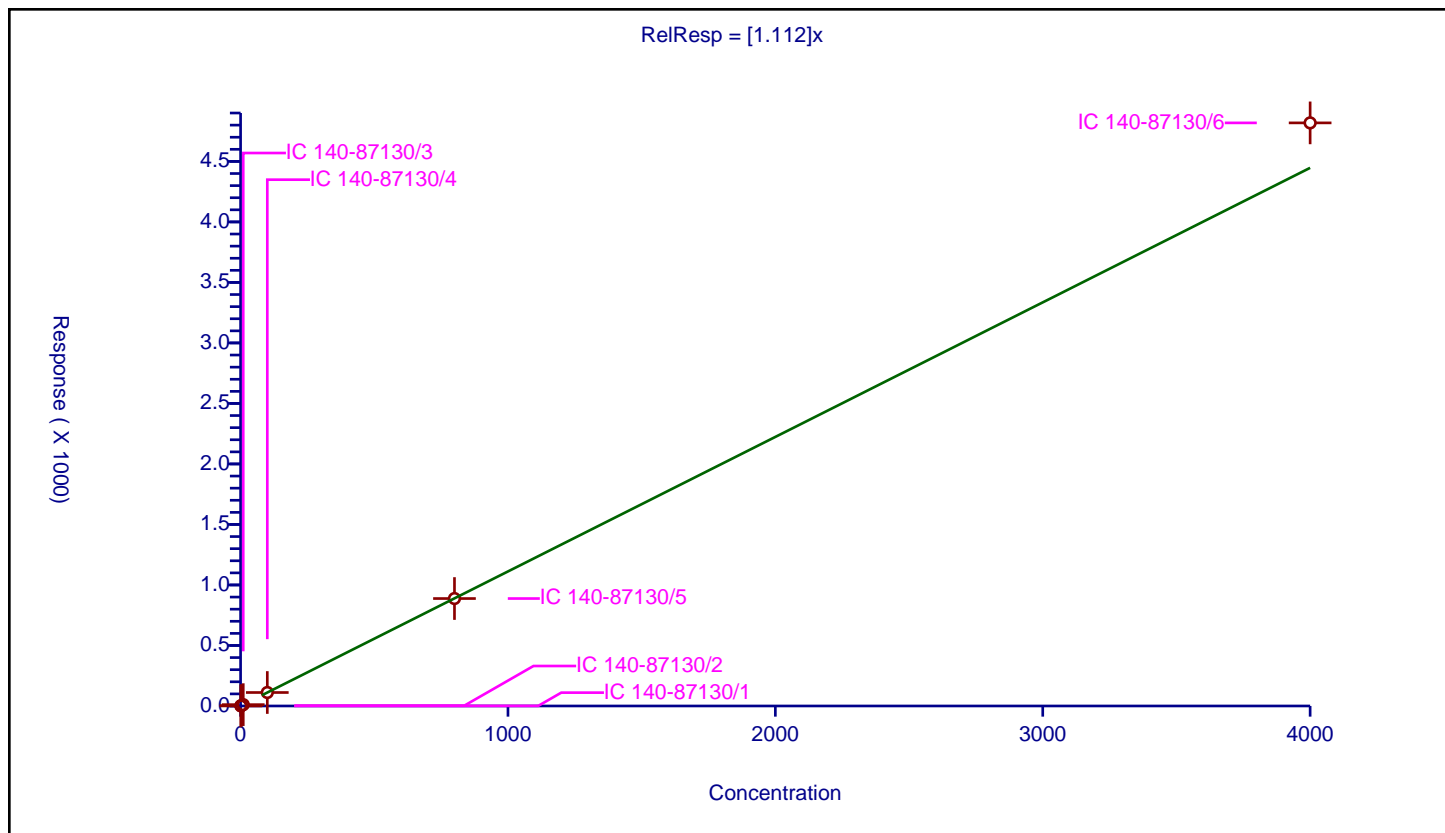
Curve Coefficients

Intercept: 0
Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Calibration

/ PCB-153/168

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

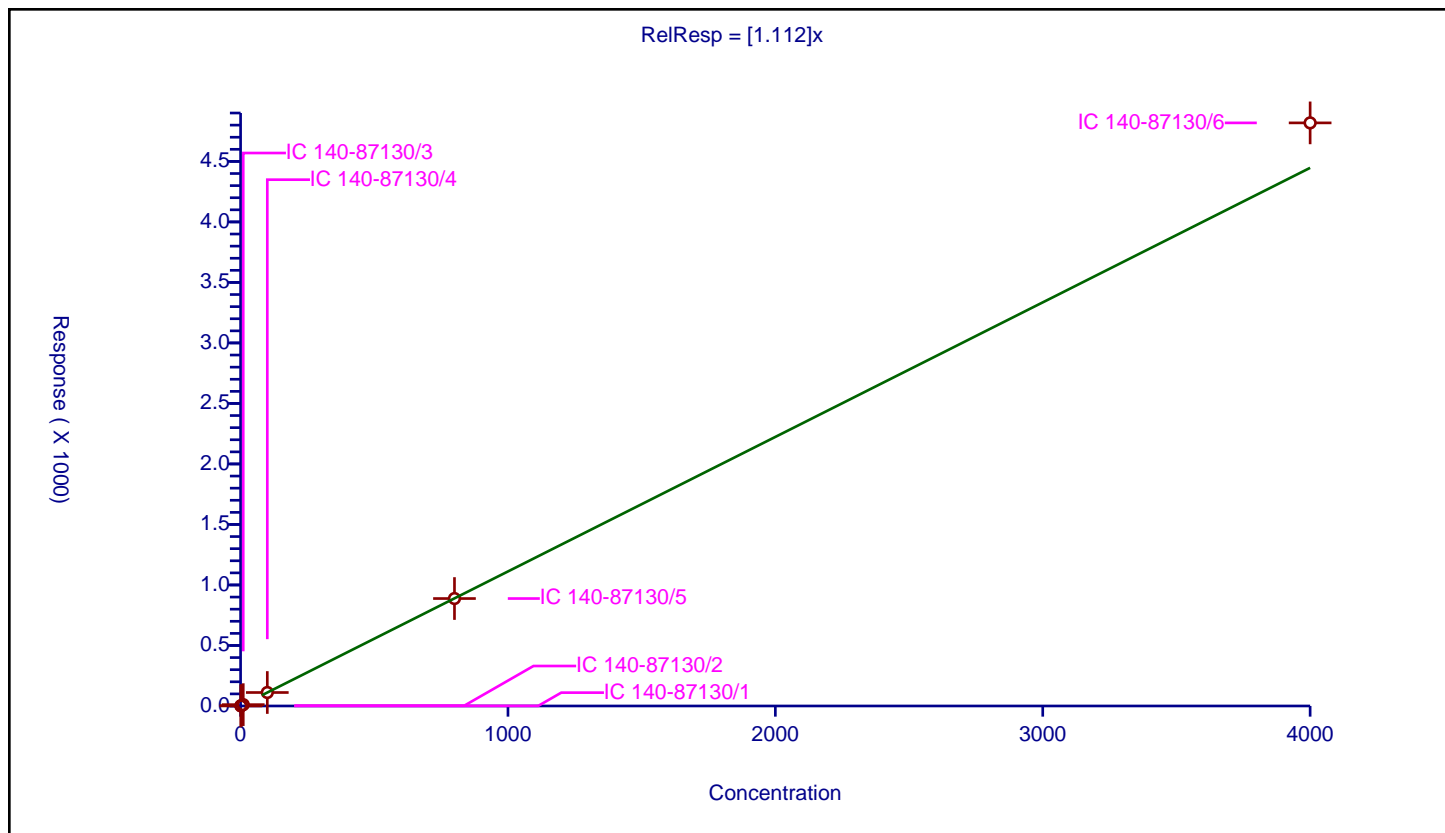
Curve Coefficients

Intercept: 0
Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Calibration

/ PCB-153L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

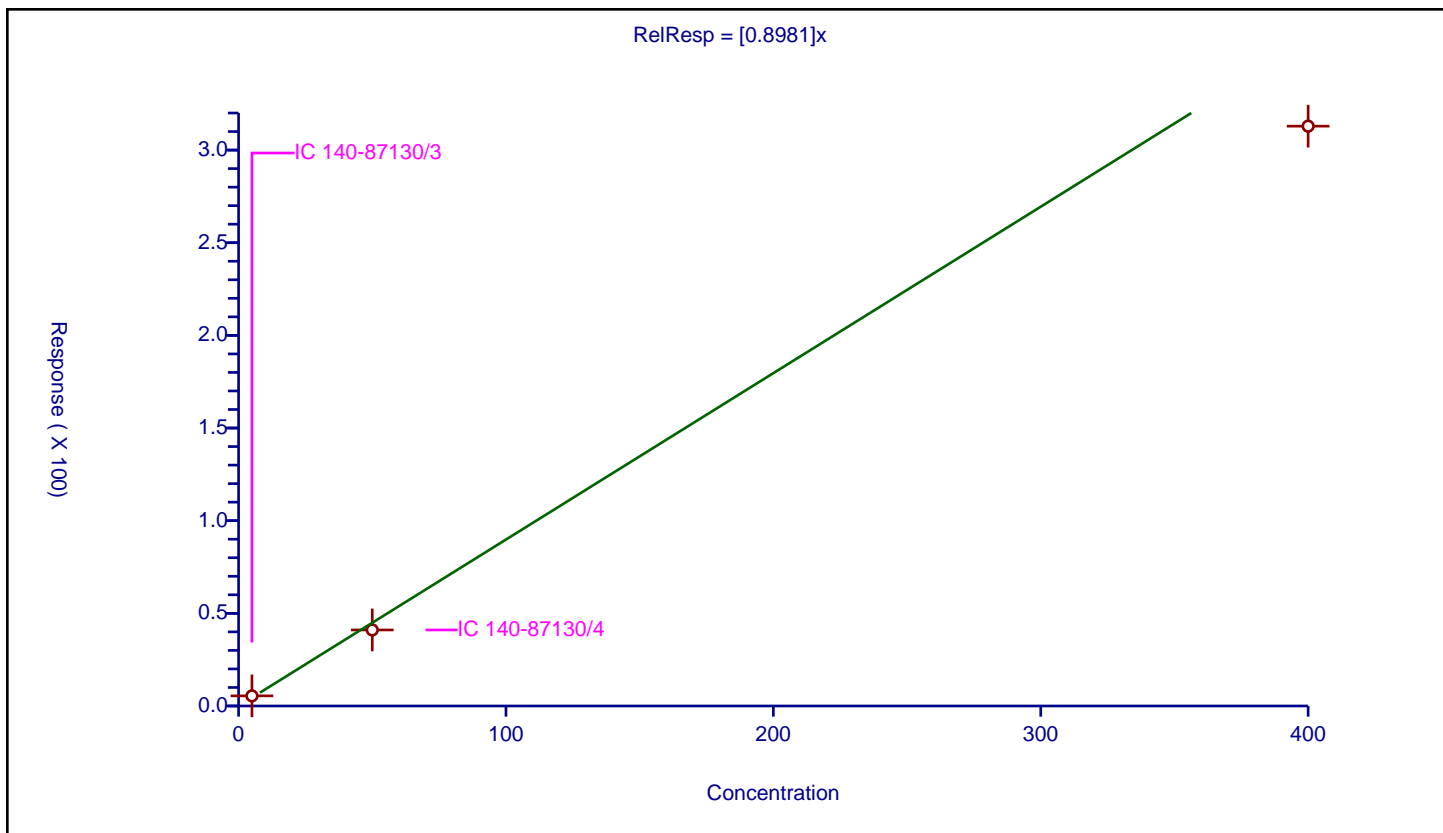
Curve Coefficients

Intercept: 0
 Slope: 0.8981

Error Coefficients

Relative Standard Deviation: 18.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.456872	100.0	8150383.0	1.091374	Y
2	IC 140-87130/4	50.0	41.031232	100.0	8329121.0	0.820625	Y
3	IC 140-87130/5	400.0	312.906899	100.0	8748546.0	0.782267	Y



Calibration

/ PCB-154

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

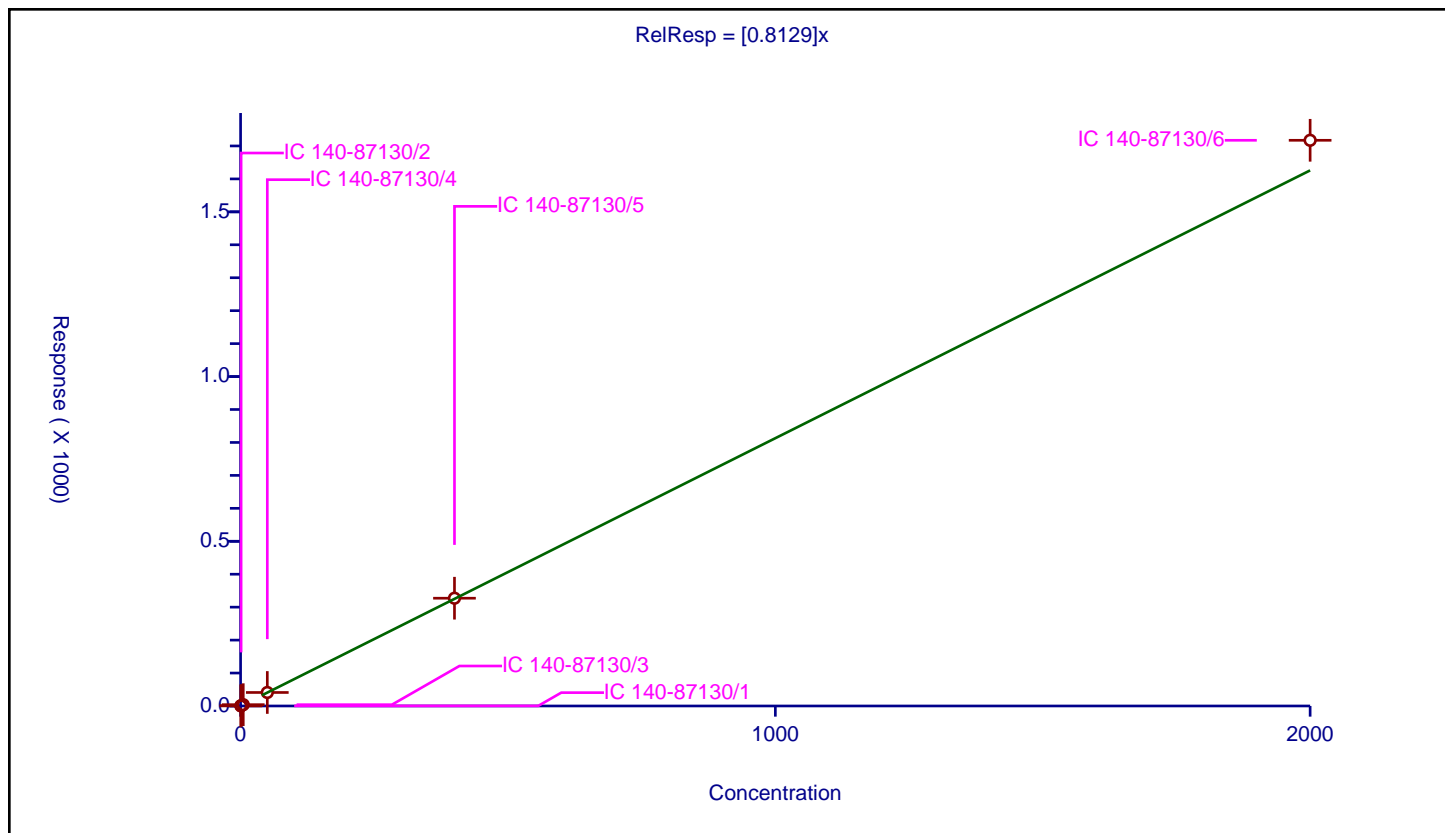
Curve Coefficients

Intercept: 0
 Slope: 0.8129

Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.370554	100.0	6307321.0	0.741107	Y
2	IC 140-87130/2	1.0	0.840497	100.0	5566942.0	0.840497	Y
3	IC 140-87130/3	5.0	3.997836	100.0	5708638.0	0.799567	Y
4	IC 140-87130/4	50.0	40.980227	100.0	5786925.0	0.819605	Y
5	IC 140-87130/5	400.0	327.187315	100.0	5892178.0	0.817968	Y
6	IC 140-87130/6	2000.0	1717.150606	100.0	6037909.0	0.858575	Y



Calibration

/ PCB-155

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

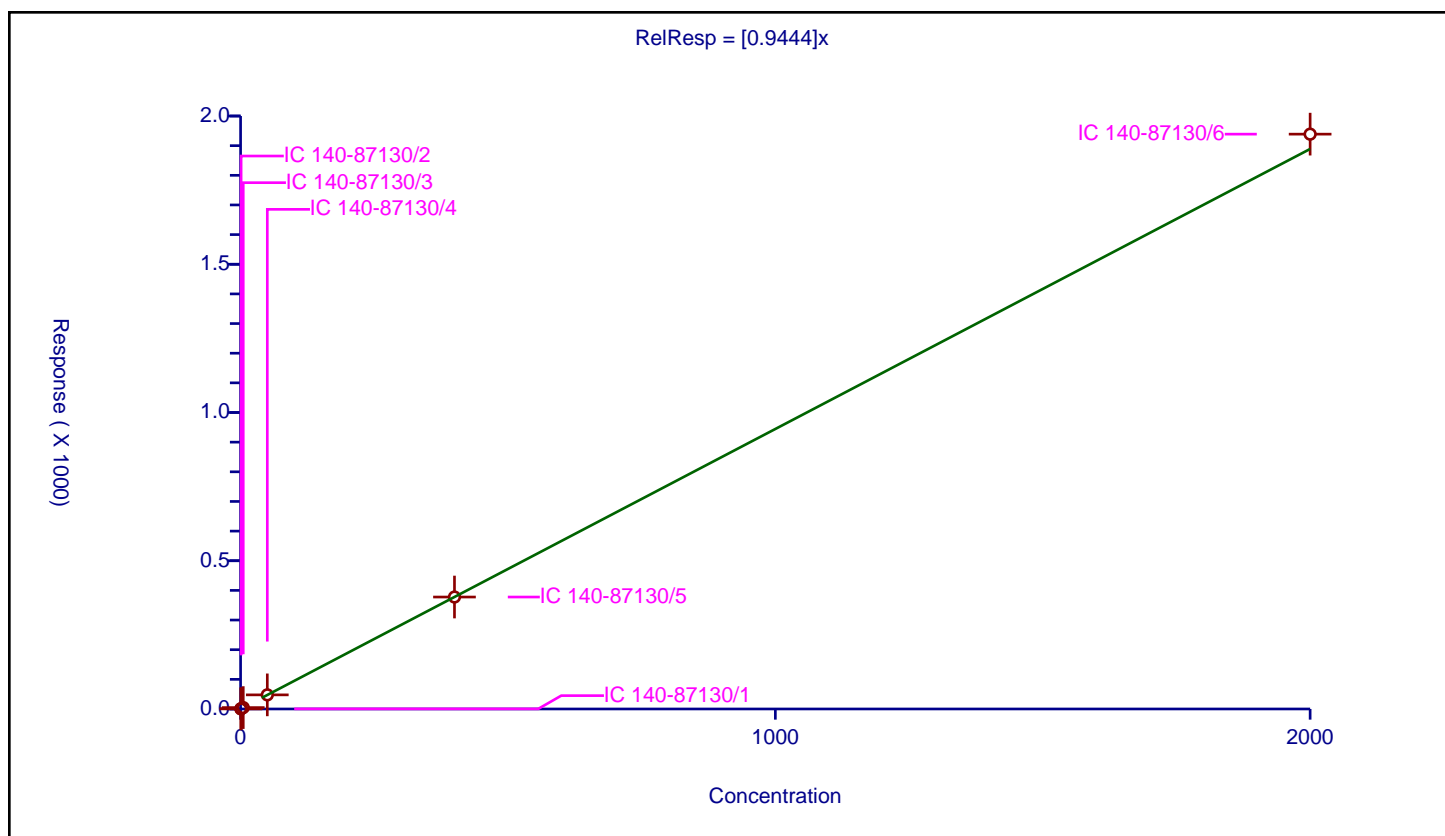
Curve Coefficients

Intercept: 0
 Slope: 0.9444

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.444563	100.0	6307321.0	0.889126	Y
2	IC 140-87130/2	1.0	0.965503	100.0	5566942.0	0.965503	Y
3	IC 140-87130/3	5.0	4.727082	100.0	5708638.0	0.945416	Y
4	IC 140-87130/4	50.0	47.645269	100.0	5786925.0	0.952905	Y
5	IC 140-87130/5	400.0	377.648639	100.0	5892178.0	0.944122	Y
6	IC 140-87130/6	2000.0	1938.79656	100.0	6037909.0	0.969398	Y



Calibration

/ PCB-156

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

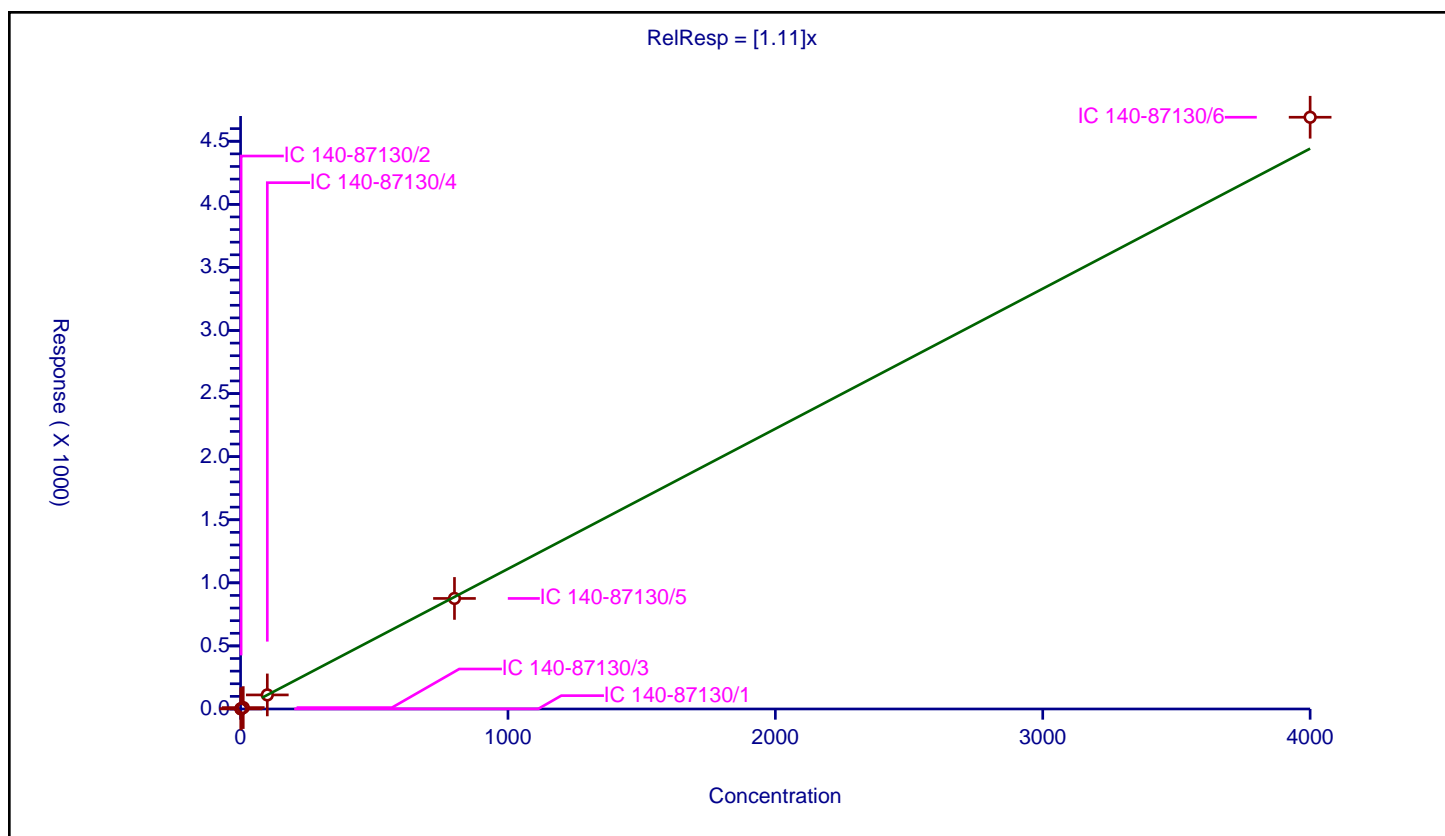
Curve Coefficients

Intercept: 0
 Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-156/157

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

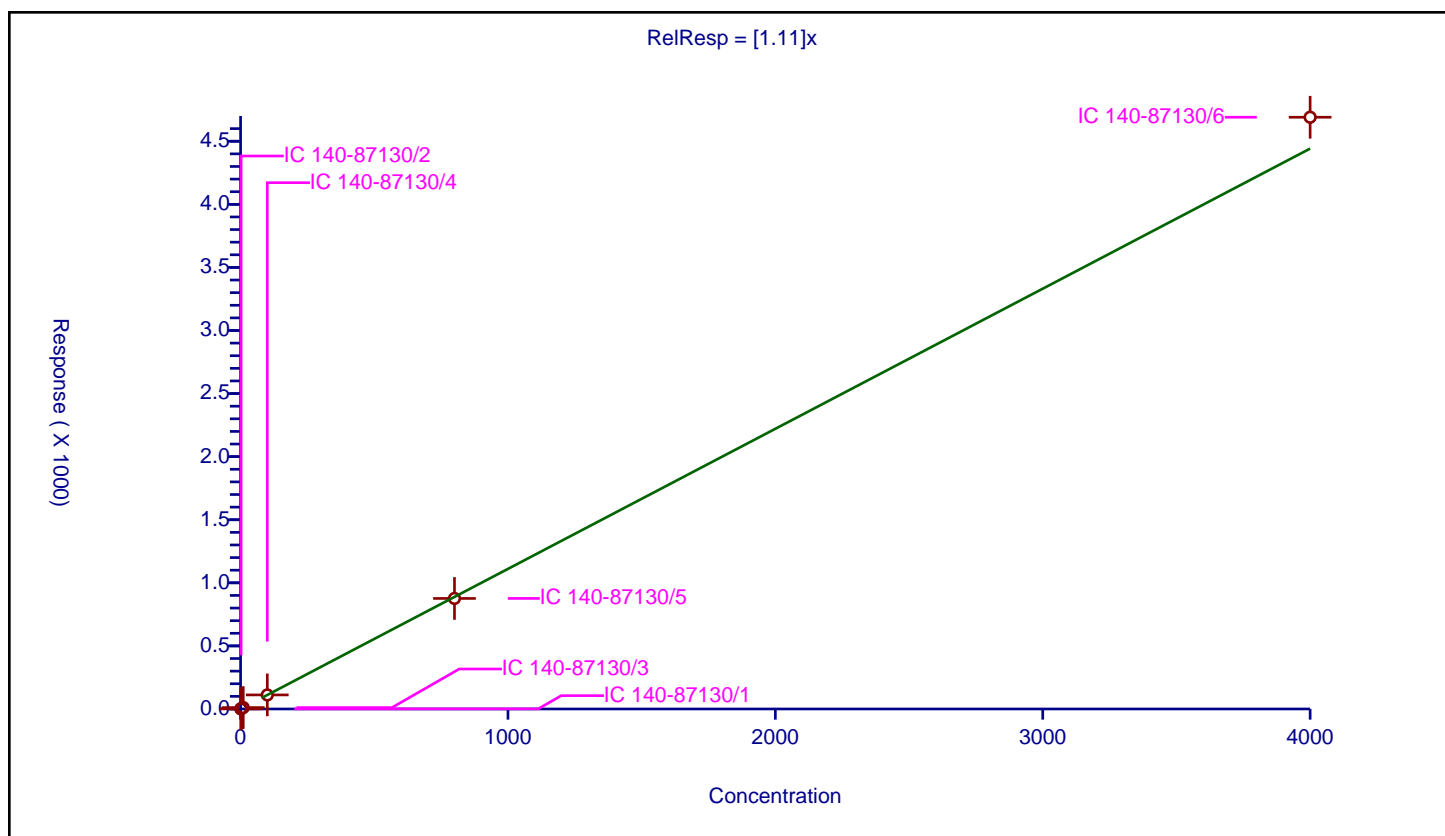
Curve Coefficients

Intercept: 0
 Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-157

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

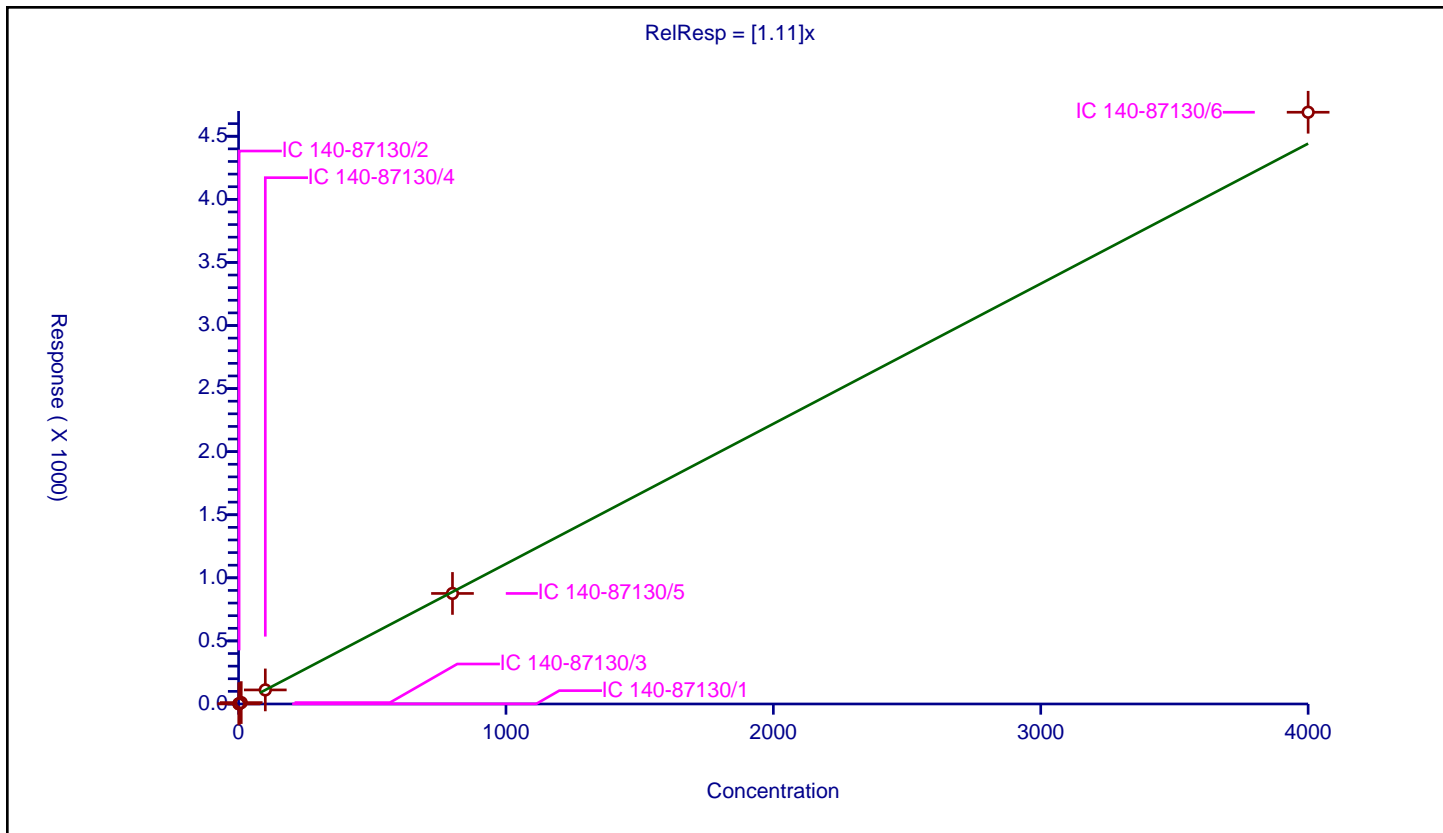
Curve Coefficients

Intercept: 0
Slope: 1.11

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Calibration

/ PCB-158

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

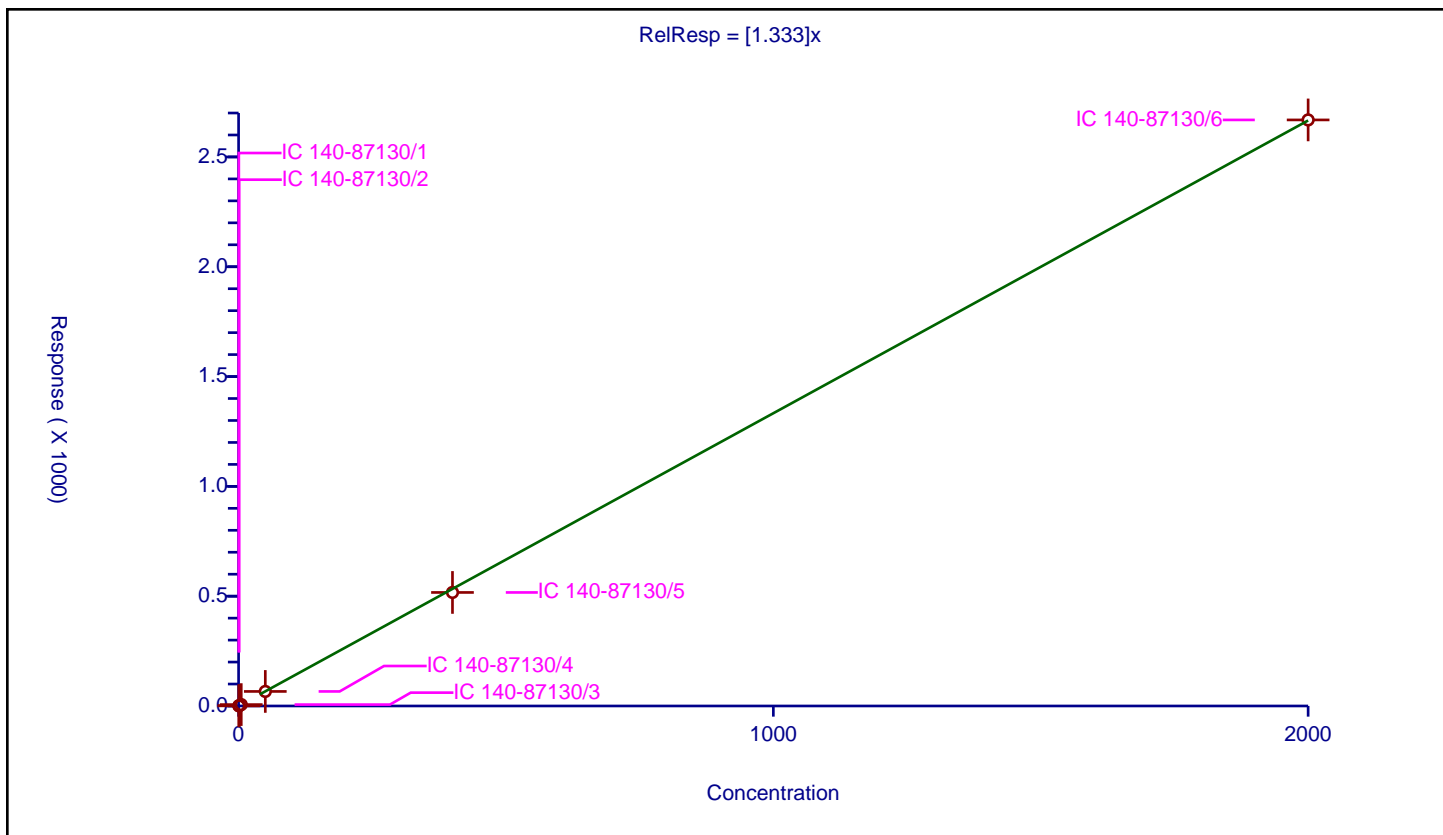
Curve Coefficients

Intercept: 0
Slope: 1.333

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.703294	200.0	17145311.0	1.406589	Y
2	IC 140-87130/2	1.0	1.363426	200.0	16075823.0	1.363426	Y
3	IC 140-87130/3	5.0	6.376583	200.0	15994835.0	1.275317	Y
4	IC 140-87130/4	50.0	66.29148	200.0	16048883.0	1.32583	Y
5	IC 140-87130/5	400.0	516.99842	200.0	16797326.0	1.292496	Y
6	IC 140-87130/6	2000.0	2668.60553	200.0	18003846.0	1.334303	Y



Calibration

/ PCB-159

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

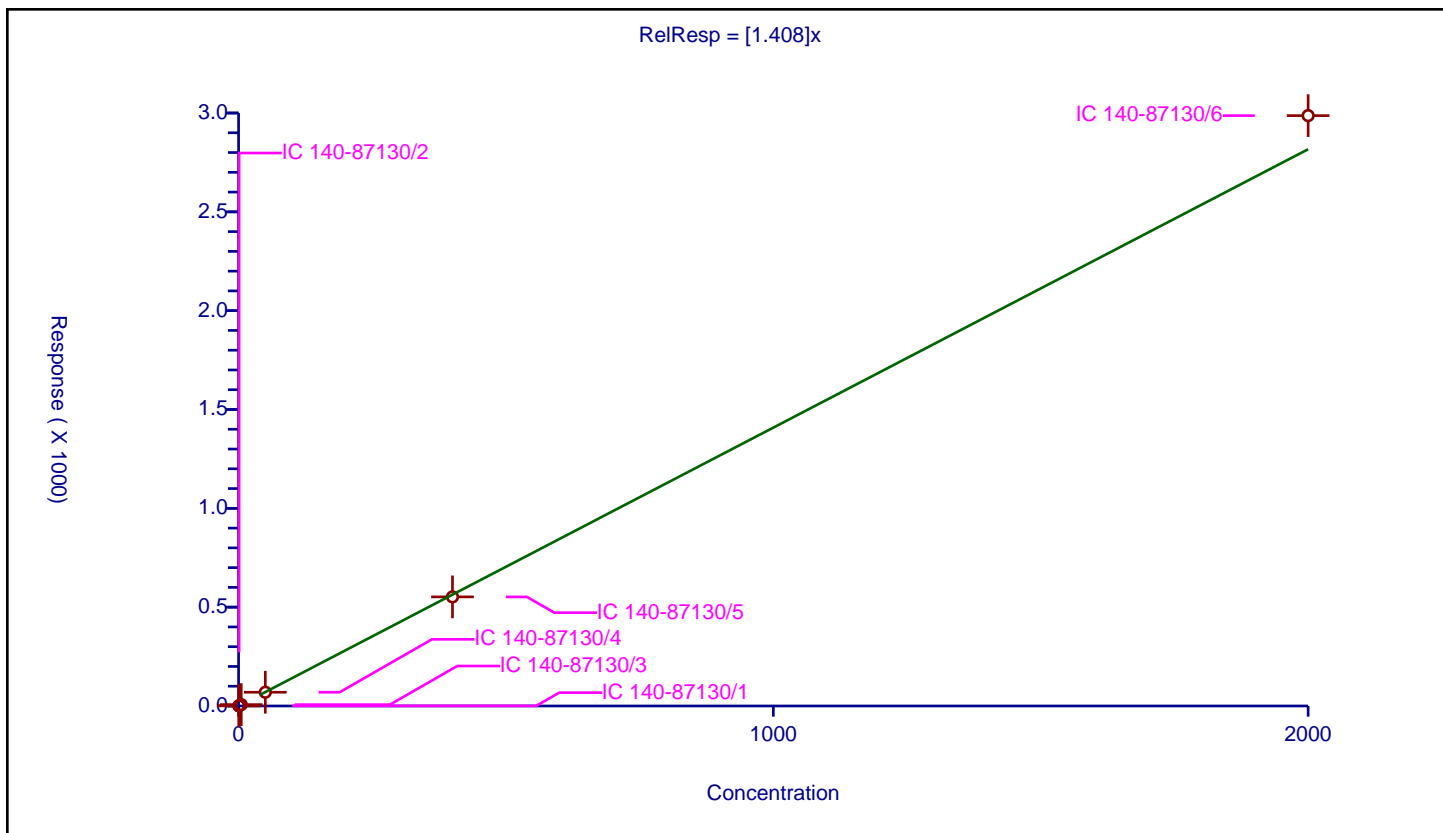
Curve Coefficients

Intercept: 0
 Slope: 1.408

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.681014	200.0	17145311.0	1.362028	Y
2	IC 140-87130/2	1.0	1.428816	200.0	16075823.0	1.428816	Y
3	IC 140-87130/3	5.0	6.978053	200.0	15994835.0	1.395611	Y
4	IC 140-87130/4	50.0	69.519368	200.0	16048883.0	1.390387	Y
5	IC 140-87130/5	400.0	551.962318	200.0	16797326.0	1.379906	Y
6	IC 140-87130/6	2000.0	2986.779802	200.0	18003846.0	1.49339	Y



Calibration

/ PCB-159L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

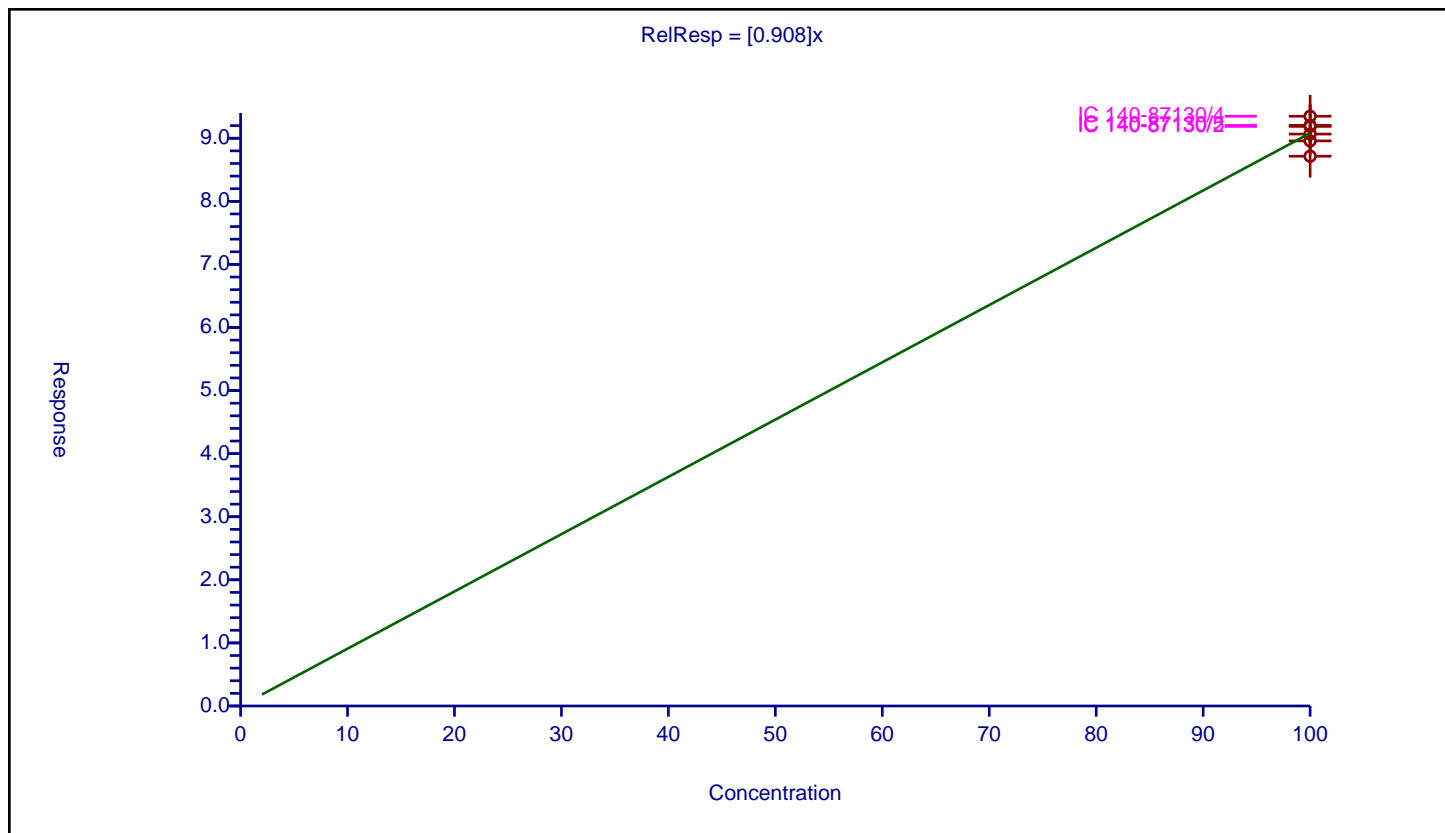
Curve Coefficients

Intercept: 0
 Slope: 0.908

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	100.0	87.152373	100.0	9105316.0	0.871524	Y
2	IC 140-87130/2	100.0	91.879793	100.0	8343026.0	0.918798	Y
3	IC 140-87130/3	100.0	89.580502	100.0	8150383.0	0.895805	Y
4	IC 140-87130/4	100.0	93.486792	100.0	8329121.0	0.934868	Y
5	IC 140-87130/5	100.0	92.037683	100.0	8748546.0	0.920377	Y
6	IC 140-87130/6	100.0	90.665672	100.0	9296213.0	0.906657	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

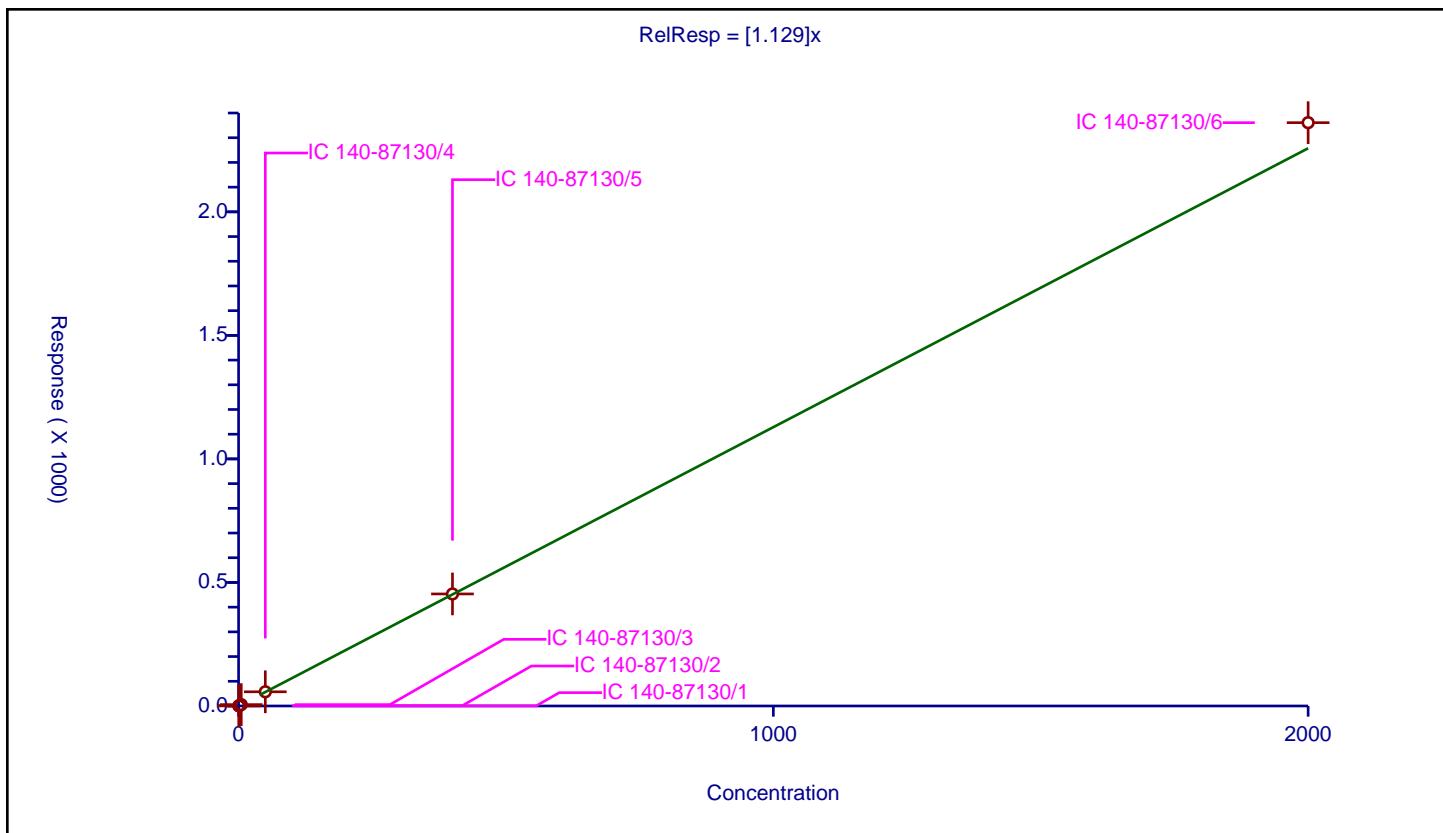
Curve Coefficients

Intercept: 0
Slope: 1.129

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563663	100.0	3711790.0	1.127327	Y
2	IC 140-87130/2	1.0	1.063131	100.0	3424036.0	1.063131	Y
3	IC 140-87130/3	5.0	5.582269	100.0	3389482.0	1.116454	Y
4	IC 140-87130/4	50.0	57.525798	100.0	3406868.0	1.150516	Y
5	IC 140-87130/5	400.0	453.425121	100.0	3537933.0	1.133563	Y
6	IC 140-87130/6	2000.0	2360.941314	100.0	3634856.0	1.180471	Y



Calibration

/ PCB-160

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

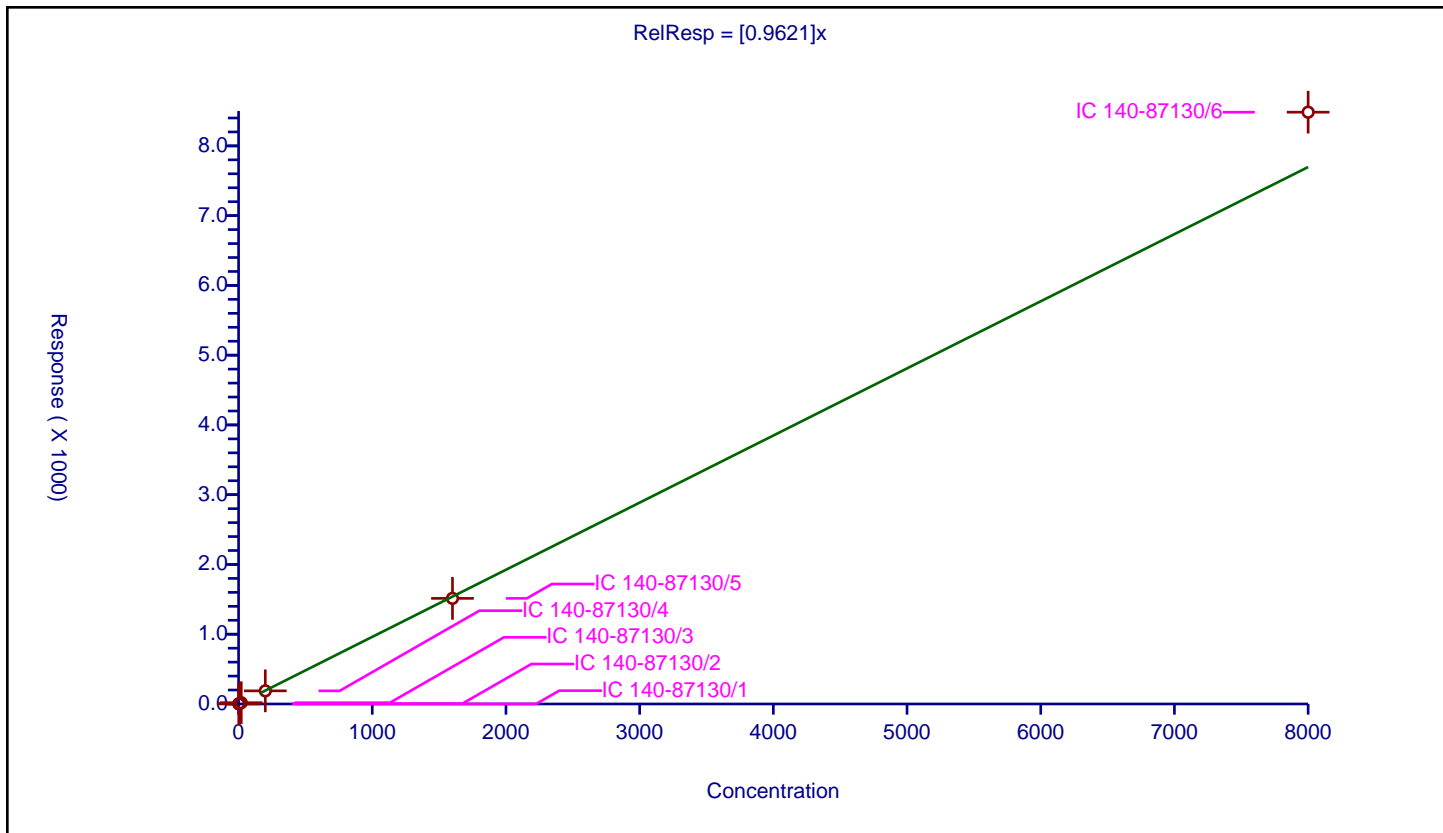
Curve Coefficients

Intercept: 0
 Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Calibration

/ PCB-161

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

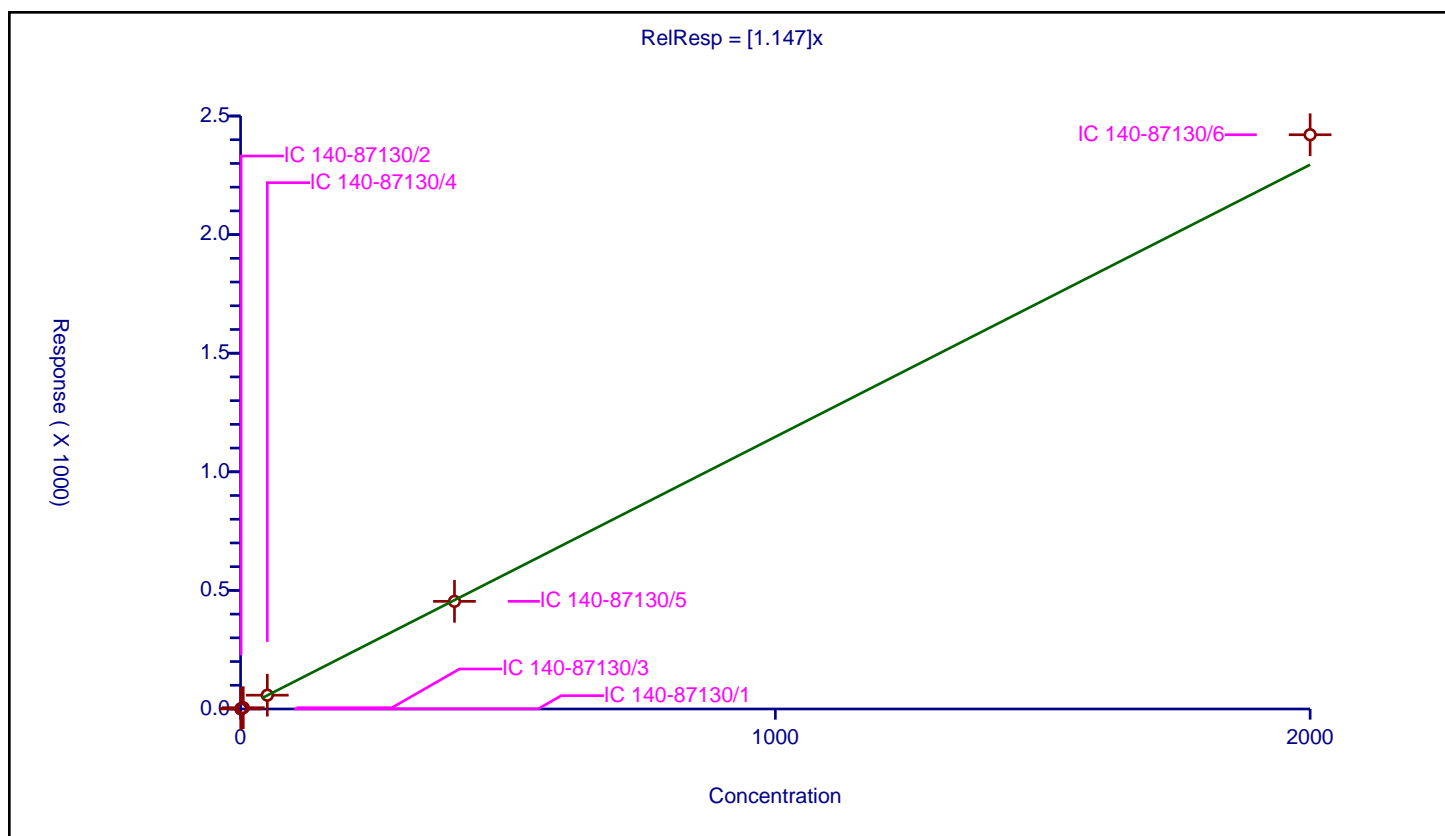
Curve Coefficients

Intercept: 0
Slope: 1.147

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.547625	200.0	17145311.0	1.09525	Y
2	IC 140-87130/2	1.0	1.183404	200.0	16075823.0	1.183404	Y
3	IC 140-87130/3	5.0	5.486896	200.0	15994835.0	1.097379	Y
4	IC 140-87130/4	50.0	58.148246	200.0	16048883.0	1.162965	Y
5	IC 140-87130/5	400.0	453.808231	200.0	16797326.0	1.134521	Y
6	IC 140-87130/6	2000.0	2421.10969	200.0	18003846.0	1.210555	Y



Calibration

/ PCB-162

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

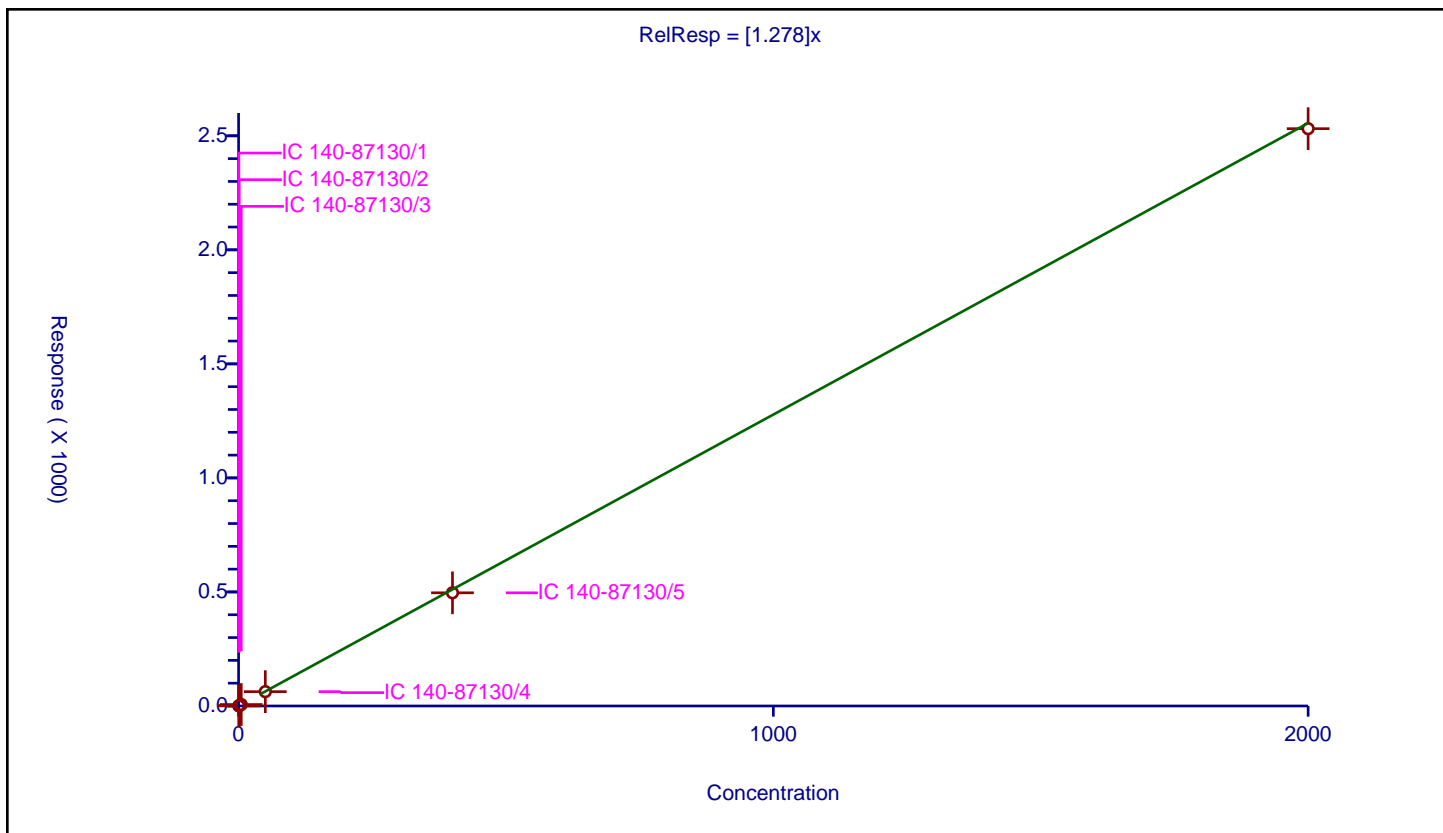
Curve Coefficients

Intercept: 0
 Slope: 1.278

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.645086	200.0	17145311.0	1.290172	Y
2	IC 140-87130/2	1.0	1.327895	200.0	16075823.0	1.327895	Y
3	IC 140-87130/3	5.0	6.422936	200.0	15994835.0	1.284587	Y
4	IC 140-87130/4	50.0	62.887355	200.0	16048883.0	1.257747	Y
5	IC 140-87130/5	400.0	496.326558	200.0	16797326.0	1.240816	Y
6	IC 140-87130/6	2000.0	2531.405701	200.0	18003846.0	1.265703	Y



Calibration

/ PCB-163

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

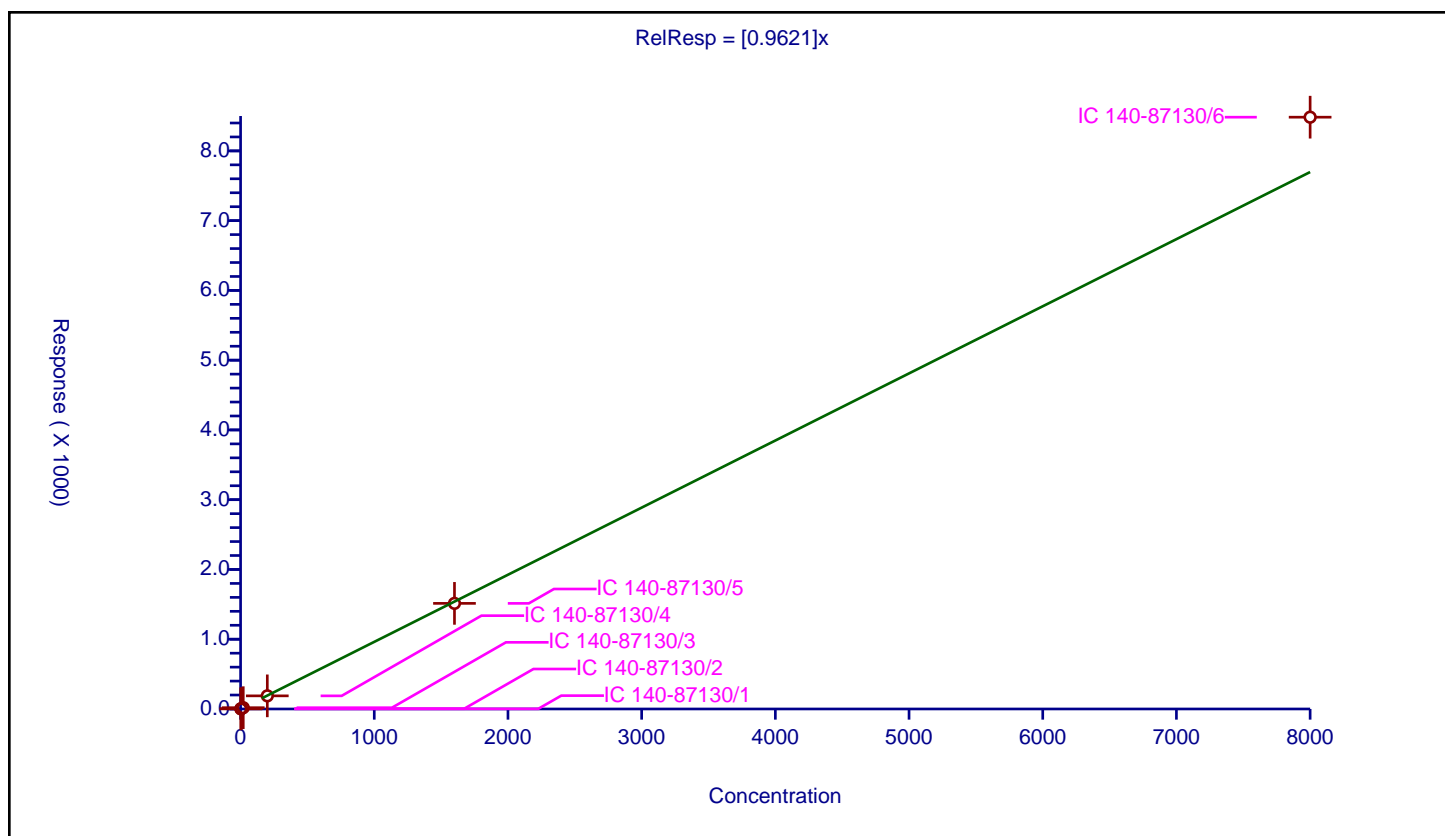
Curve Coefficients

Intercept: 0
Slope: 0.9621

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Calibration

/ PCB-164

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

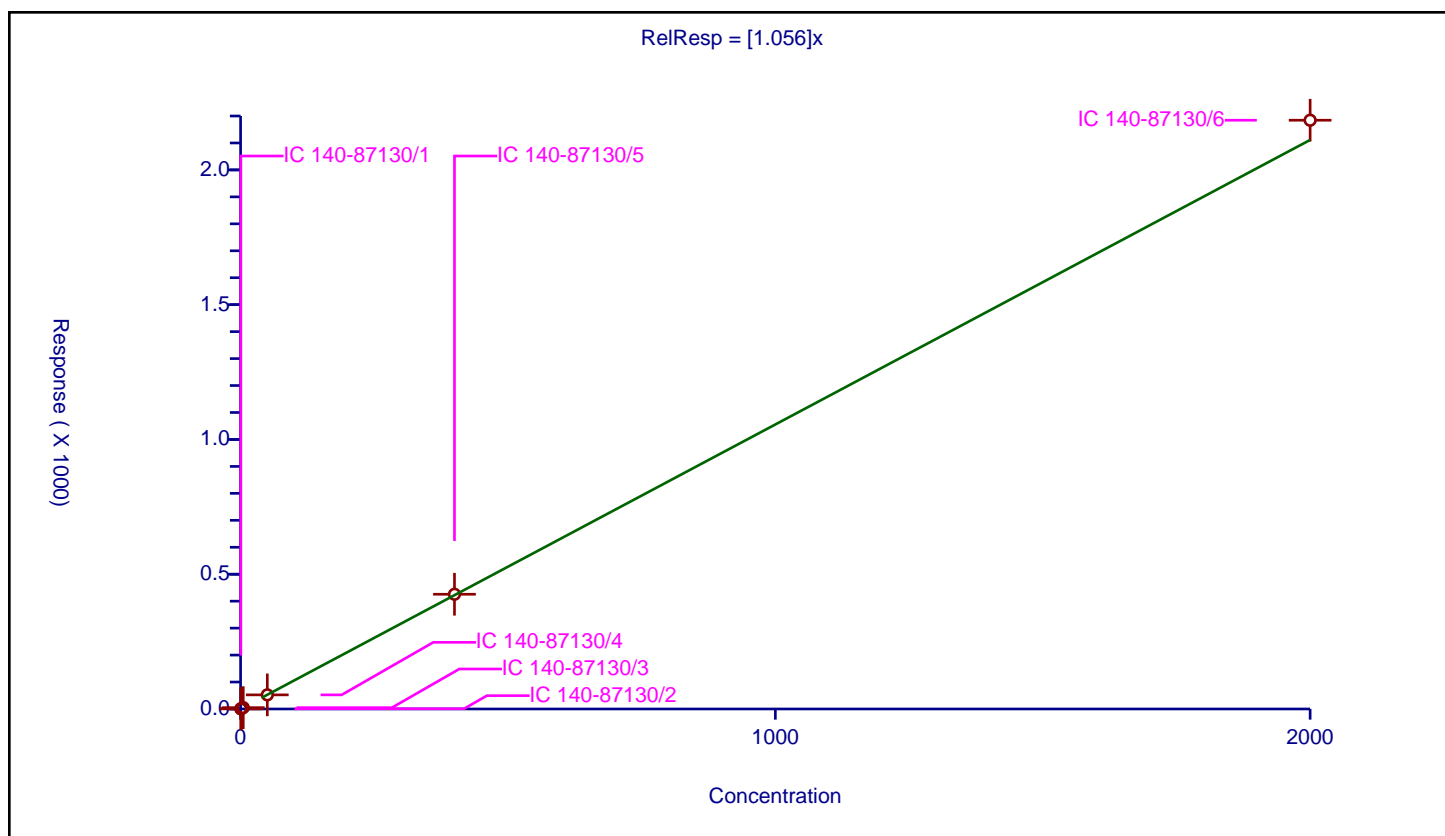
Curve Coefficients

Intercept: 0
 Slope: 1.056

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542002	200.0	17145311.0	1.084005	Y
2	IC 140-87130/2	1.0	1.043891	200.0	16075823.0	1.043891	Y
3	IC 140-87130/3	5.0	5.01168	200.0	15994835.0	1.002336	Y
4	IC 140-87130/4	50.0	52.342334	200.0	16048883.0	1.046847	Y
5	IC 140-87130/5	400.0	425.718332	200.0	16797326.0	1.064296	Y
6	IC 140-87130/6	2000.0	2184.389236	200.0	18003846.0	1.092195	Y



Calibration

/ PCB-165

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

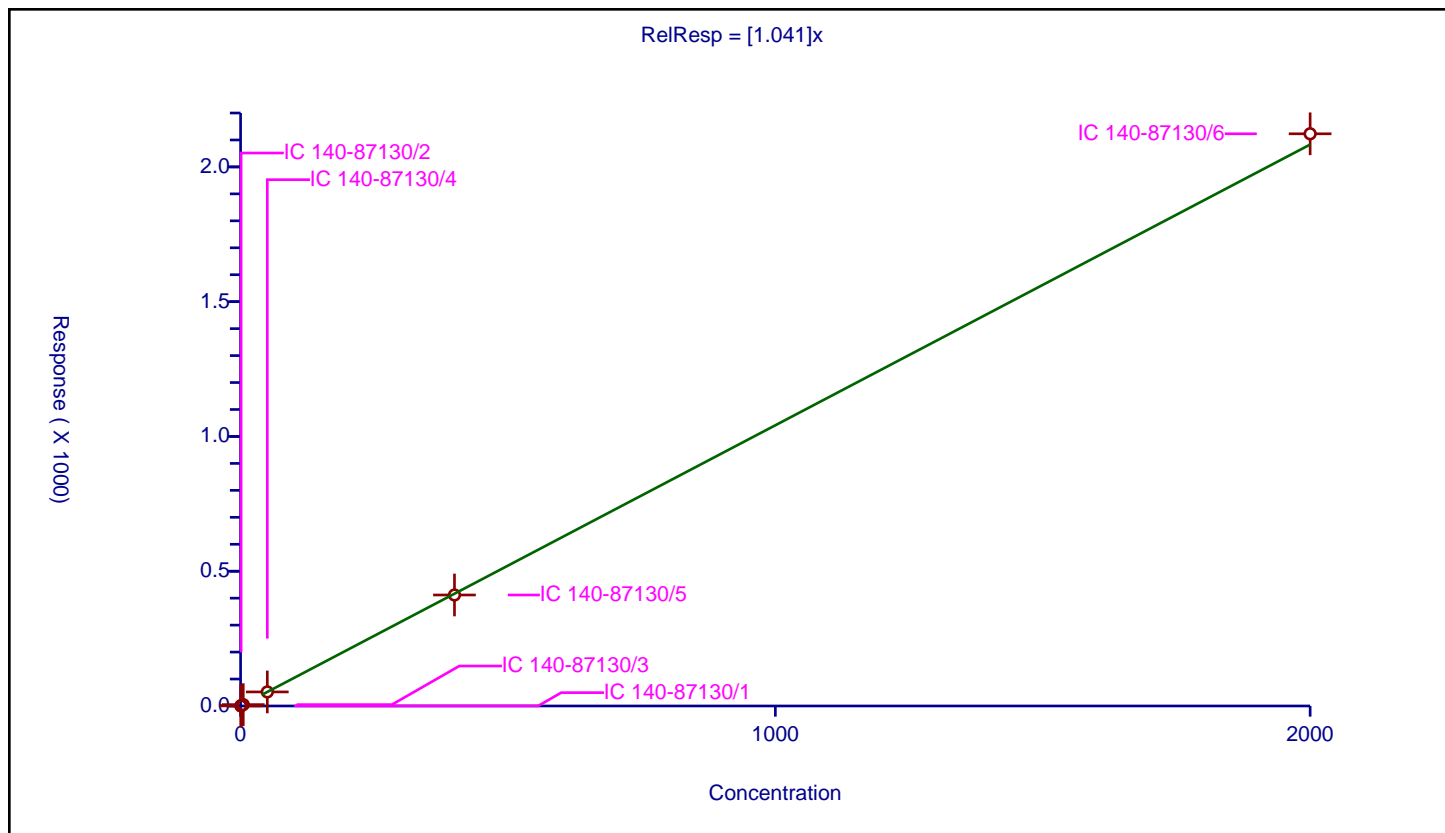
Curve Coefficients

Intercept: 0
Slope: 1.041

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492858	200.0	17145311.0	0.985716	Y
2	IC 140-87130/2	1.0	1.107303	200.0	16075823.0	1.107303	Y
3	IC 140-87130/3	5.0	5.106886	200.0	15994835.0	1.021377	Y
4	IC 140-87130/4	50.0	52.176852	200.0	16048883.0	1.043537	Y
5	IC 140-87130/5	400.0	411.833276	200.0	16797326.0	1.029583	Y
6	IC 140-87130/6	2000.0	2122.946042	200.0	18003846.0	1.061473	Y



Calibration

/ PCB-166

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

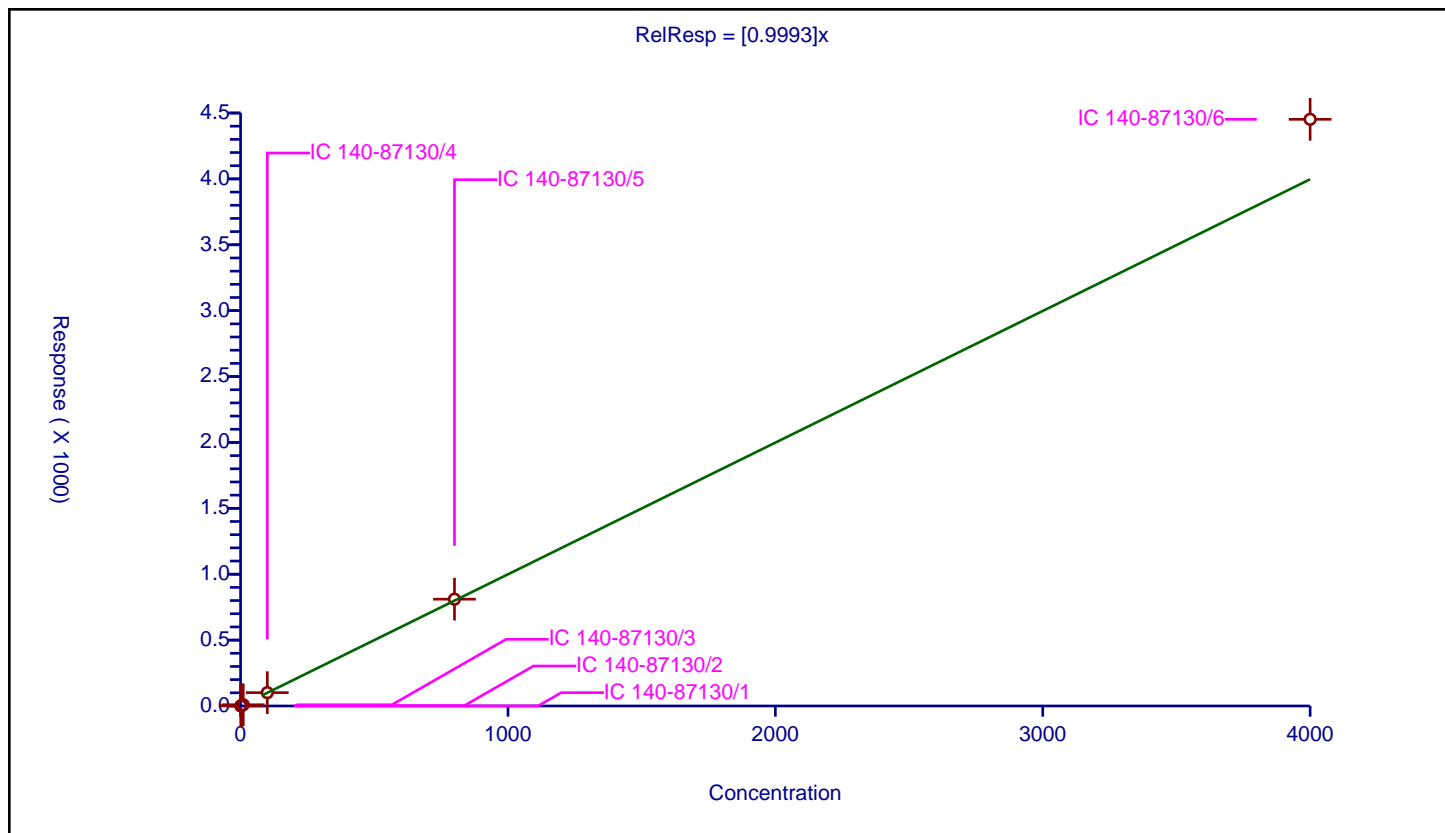
Curve Coefficients

Intercept: 0
Slope: 0.9993

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Calibration

/ PCB-167

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

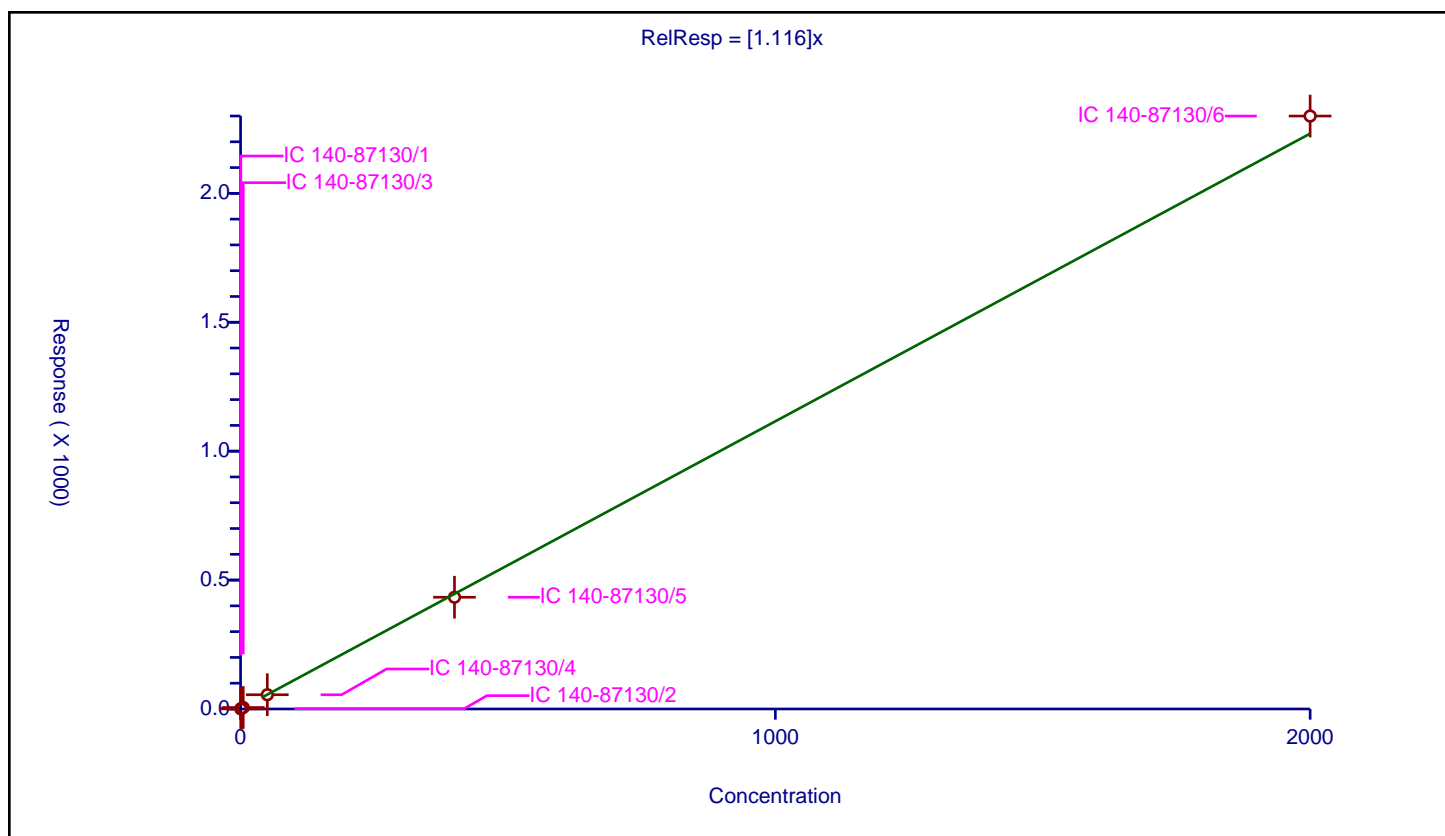
Curve Coefficients

Intercept: 0
Slope: 1.116

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.562594	100.0	9105316.0	1.125189	Y
2	IC 140-87130/2	1.0	1.089125	100.0	8343026.0	1.089125	Y
3	IC 140-87130/3	5.0	5.704848	100.0	8150383.0	1.14097	Y
4	IC 140-87130/4	50.0	55.325958	100.0	8329121.0	1.106519	Y
5	IC 140-87130/5	400.0	433.408409	100.0	8748546.0	1.083521	Y
6	IC 140-87130/6	2000.0	2299.944203	100.0	9296213.0	1.149972	Y



Calibration

/ PCB-168

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

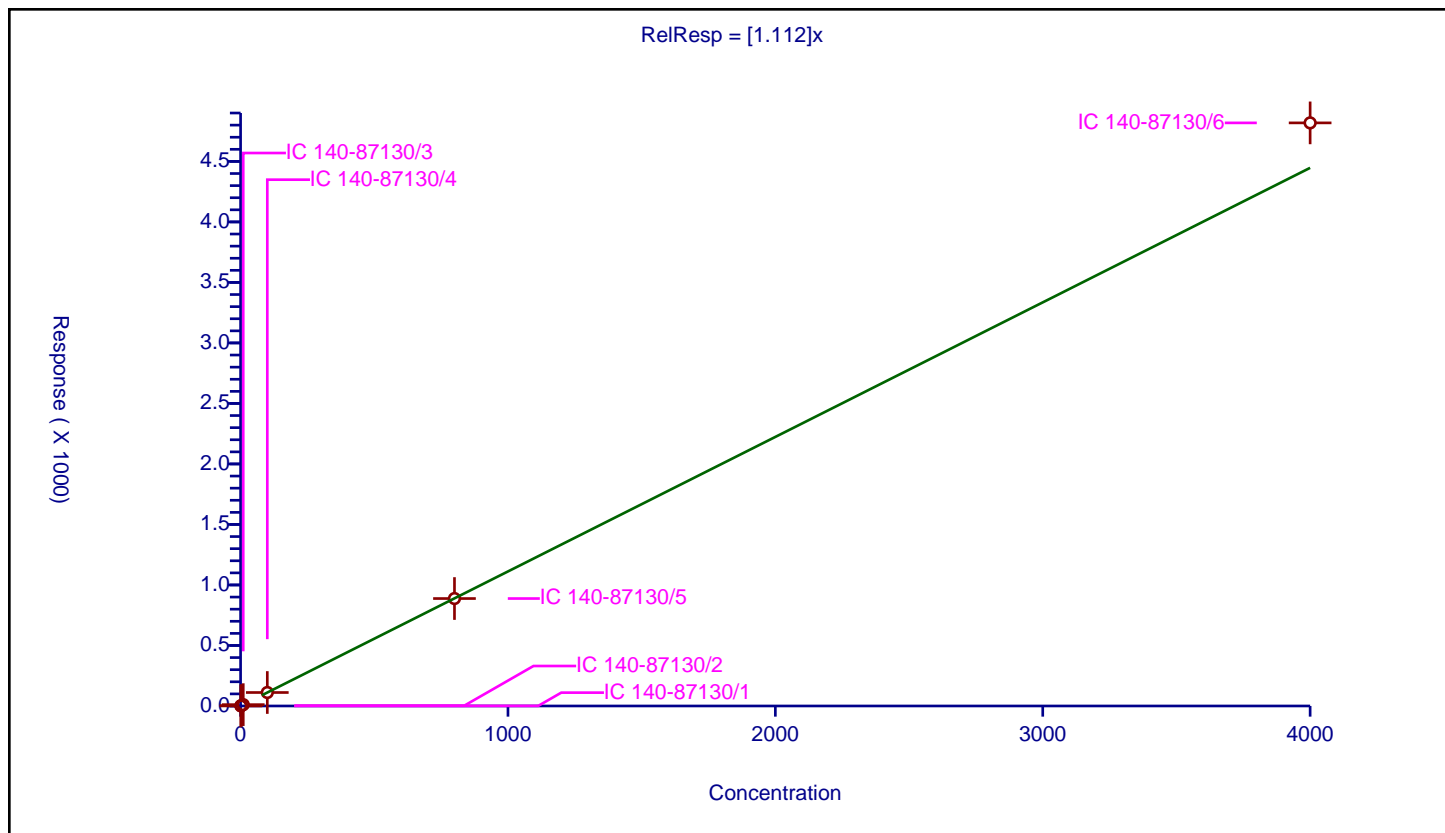
Curve Coefficients

Intercept: 0
Slope: 1.112

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



Calibration

/ PCB-169

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

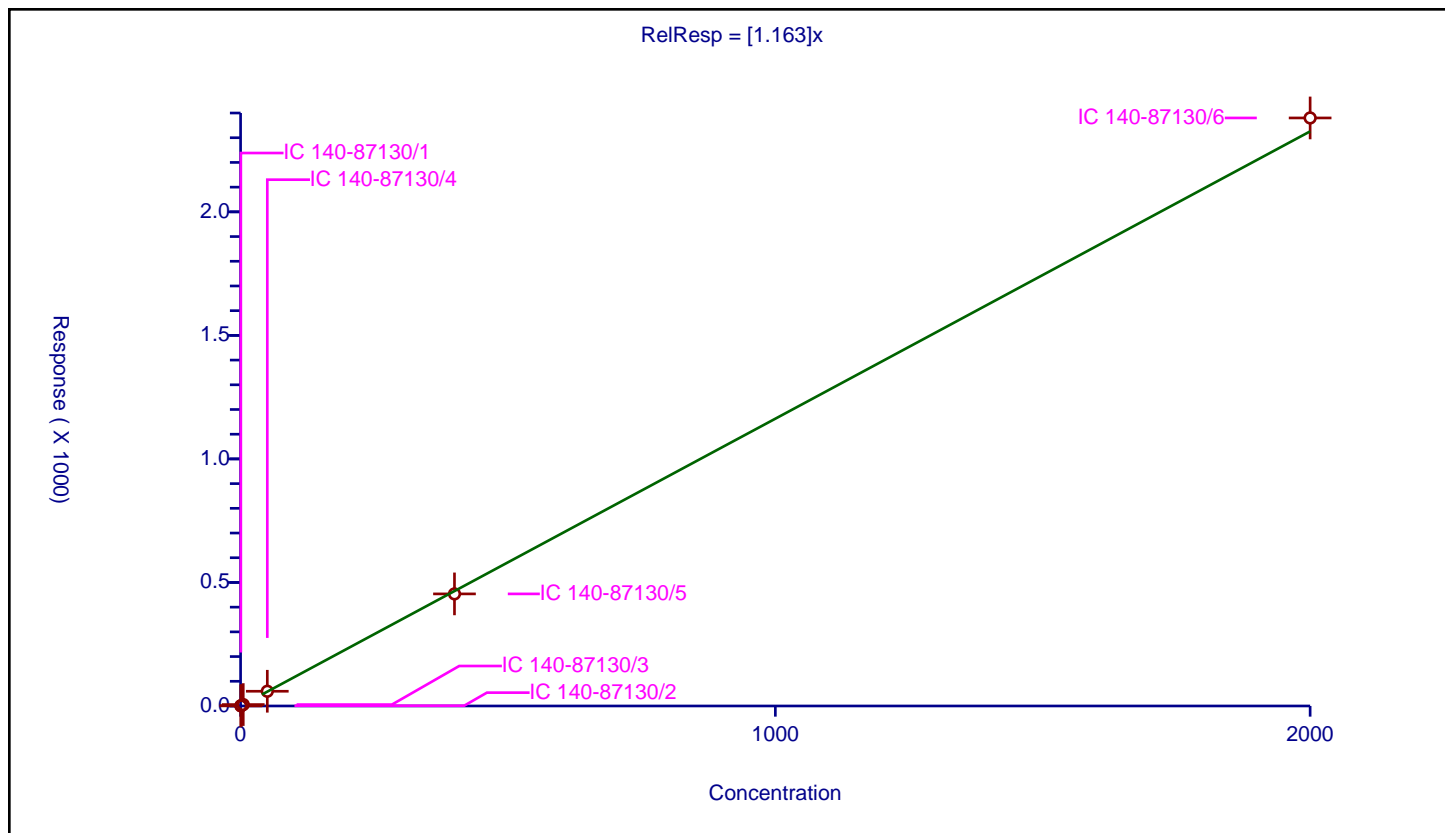
Curve Coefficients

Intercept: 0
 Slope: 1.163

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.598025	100.0	9181390.0	1.19605	Y
2	IC 140-87130/2	1.0	1.109058	100.0	8243482.0	1.109058	Y
3	IC 140-87130/3	5.0	5.774115	100.0	7844285.0	1.154823	Y
4	IC 140-87130/4	50.0	59.649033	100.0	8145884.0	1.192981	Y
5	IC 140-87130/5	400.0	453.642676	100.0	8761705.0	1.134107	Y
6	IC 140-87130/6	2000.0	2380.008853	100.0	9278382.0	1.190004	Y



Calibration

/ PCB-17

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

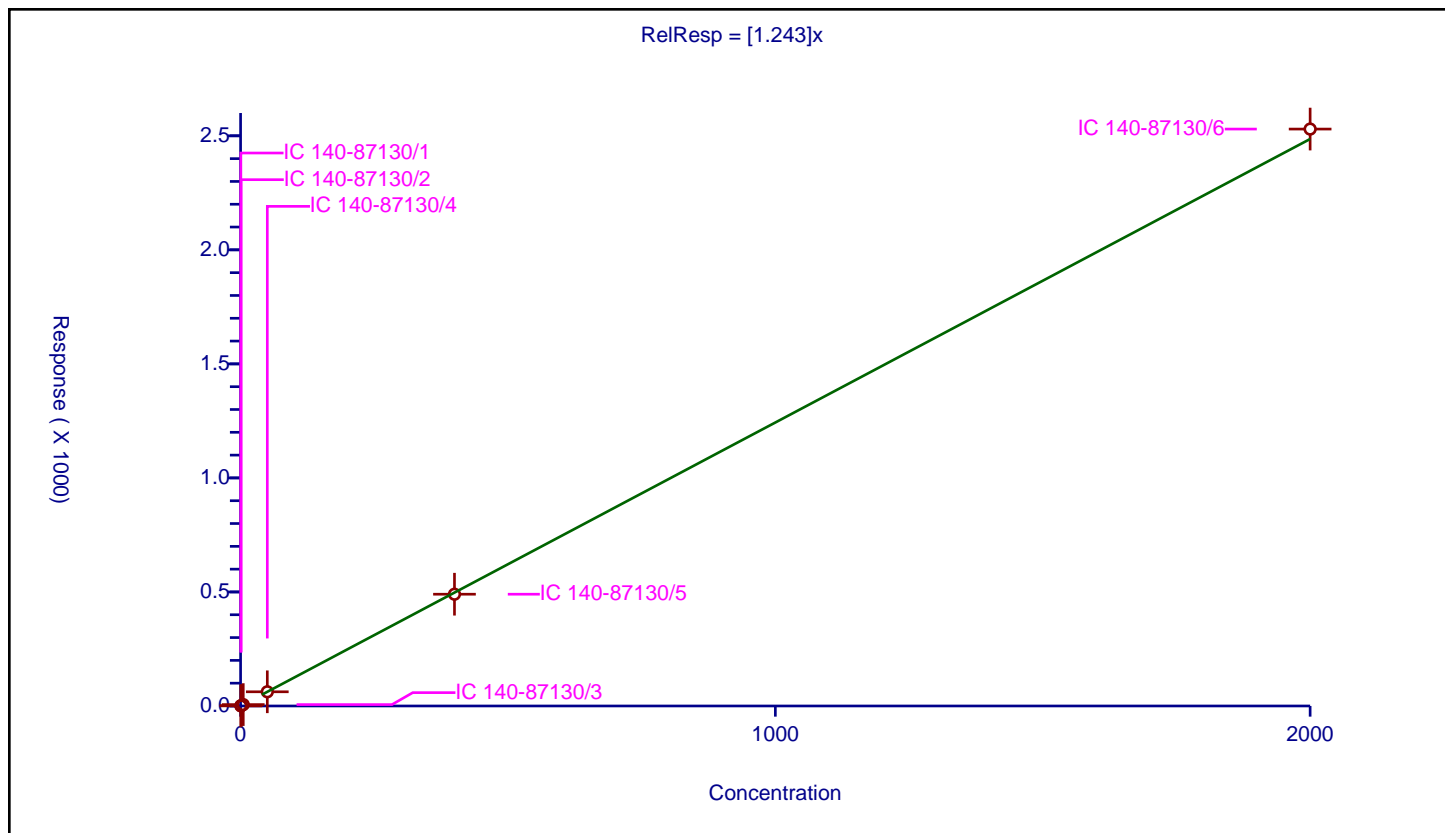
Curve Coefficients

Intercept: 0
Slope: 1.243

Error Coefficients

Relative Standard Deviation: 1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.624146	100.0	3711790.0	1.248293	Y
2	IC 140-87130/2	1.0	1.257347	100.0	3424036.0	1.257347	Y
3	IC 140-87130/3	5.0	6.082463	100.0	3389482.0	1.216493	Y
4	IC 140-87130/4	50.0	62.293197	100.0	3406868.0	1.245864	Y
5	IC 140-87130/5	400.0	490.092859	100.0	3537933.0	1.225232	Y
6	IC 140-87130/6	2000.0	2529.630527	100.0	3634856.0	1.264815	Y



Calibration

/ PCB-170

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

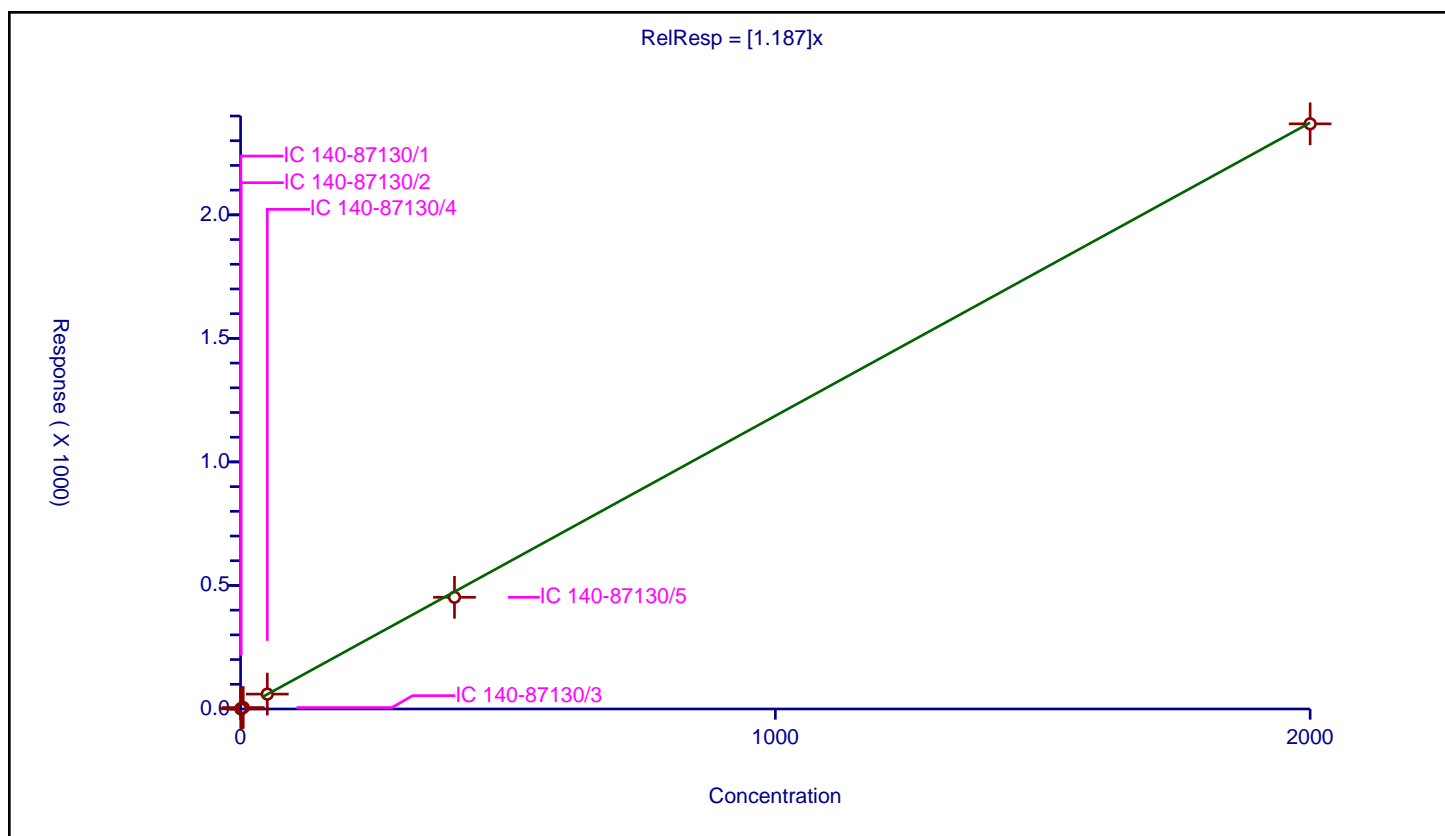
Curve Coefficients

Intercept: 0
Slope: 1.187

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609129	100.0	4764508.0	1.218258	Y
2	IC 140-87130/2	1.0	1.210137	100.0	4277780.0	1.210137	Y
3	IC 140-87130/3	5.0	5.856648	100.0	4357834.0	1.17133	Y
4	IC 140-87130/4	50.0	60.243724	100.0	4156589.0	1.204874	Y
5	IC 140-87130/5	400.0	452.105989	100.0	4386822.0	1.130265	Y
6	IC 140-87130/6	2000.0	2368.397586	100.0	4404173.0	1.184199	Y



Calibration

/ PCB-171

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

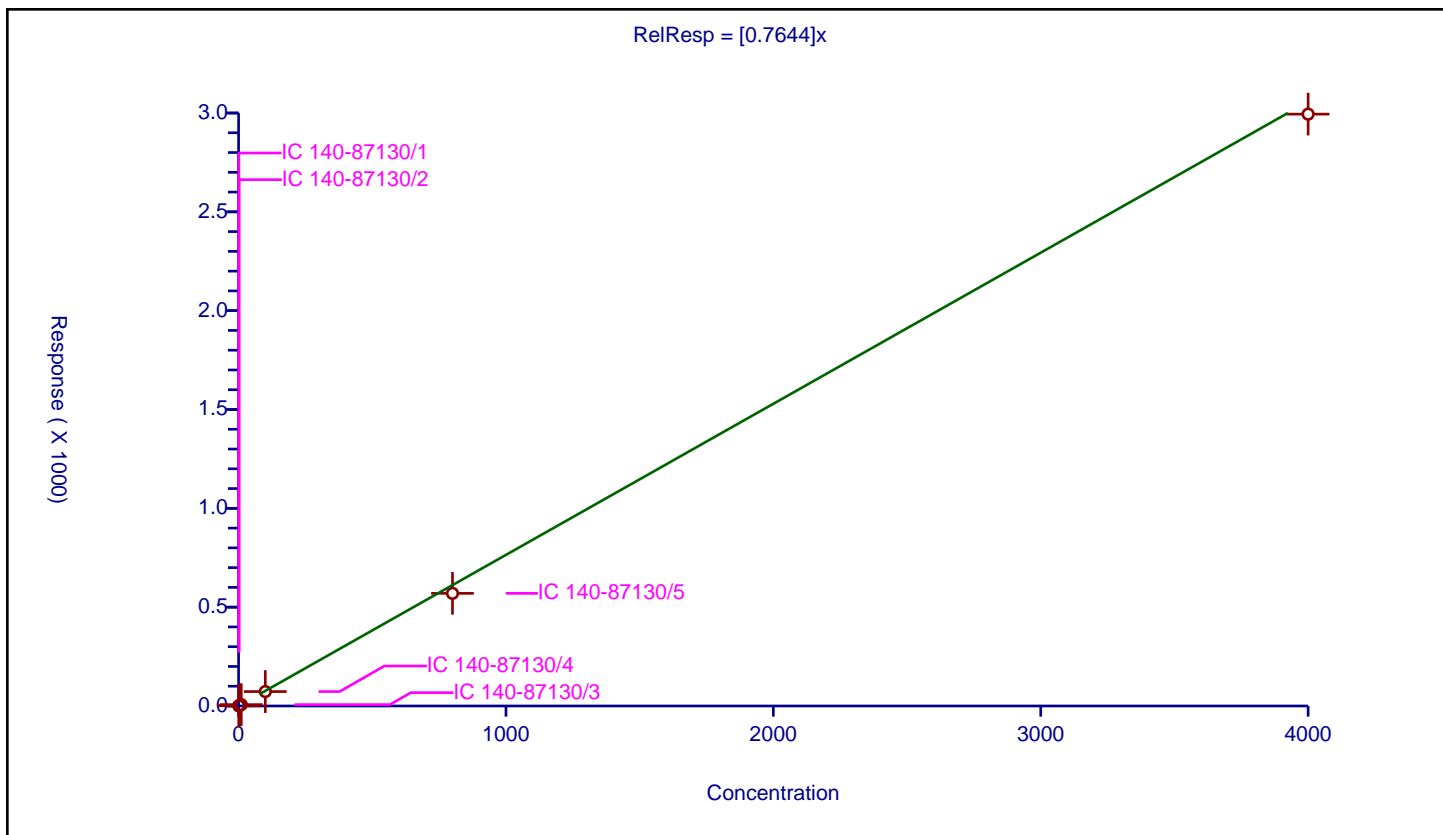
Curve Coefficients

Intercept: 0
 Slope: 0.7644

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Calibration

/ PCB-171/173

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

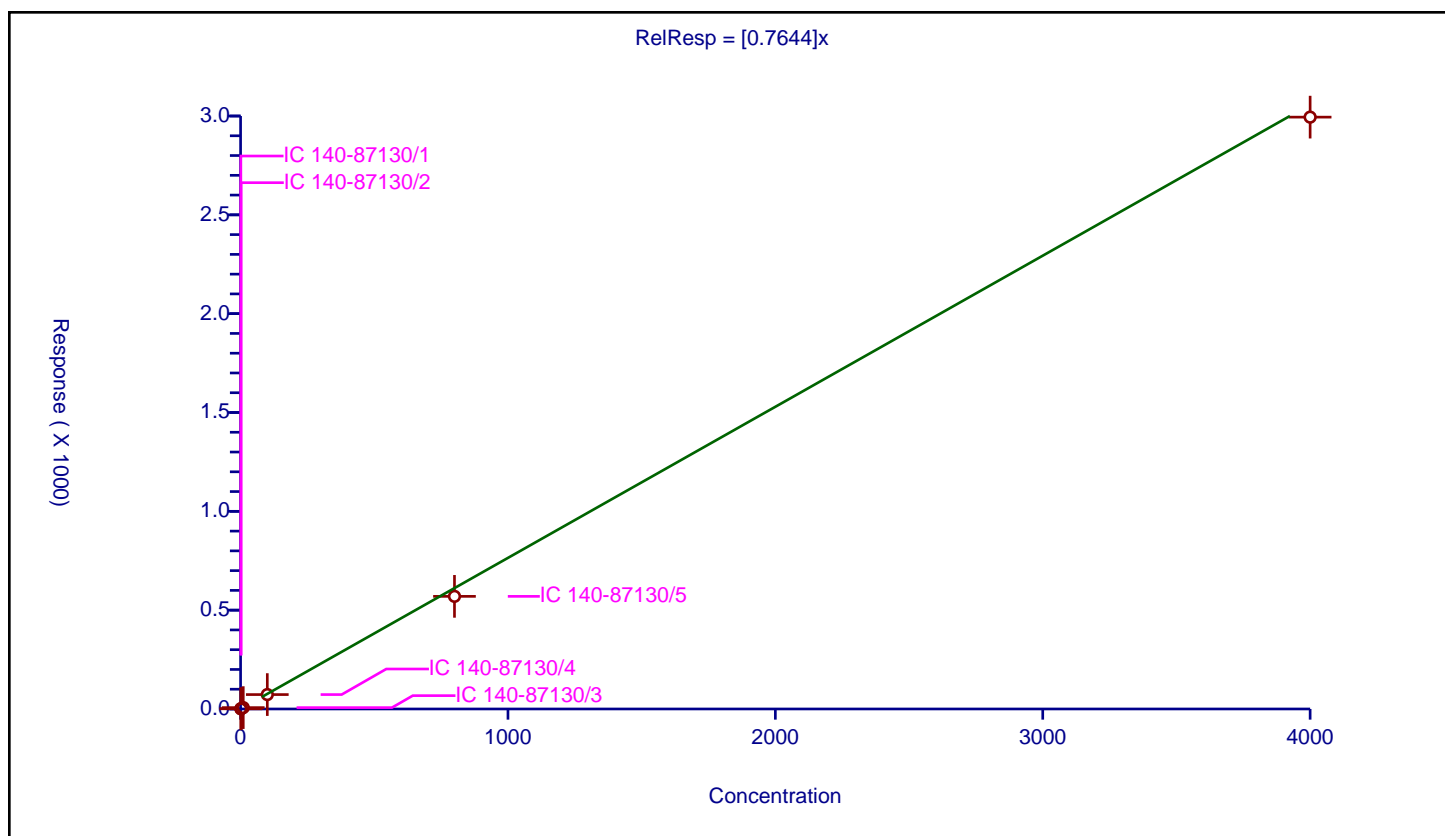
Curve Coefficients

Intercept: 0
 Slope: 0.7644

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Calibration

/ PCB-172

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

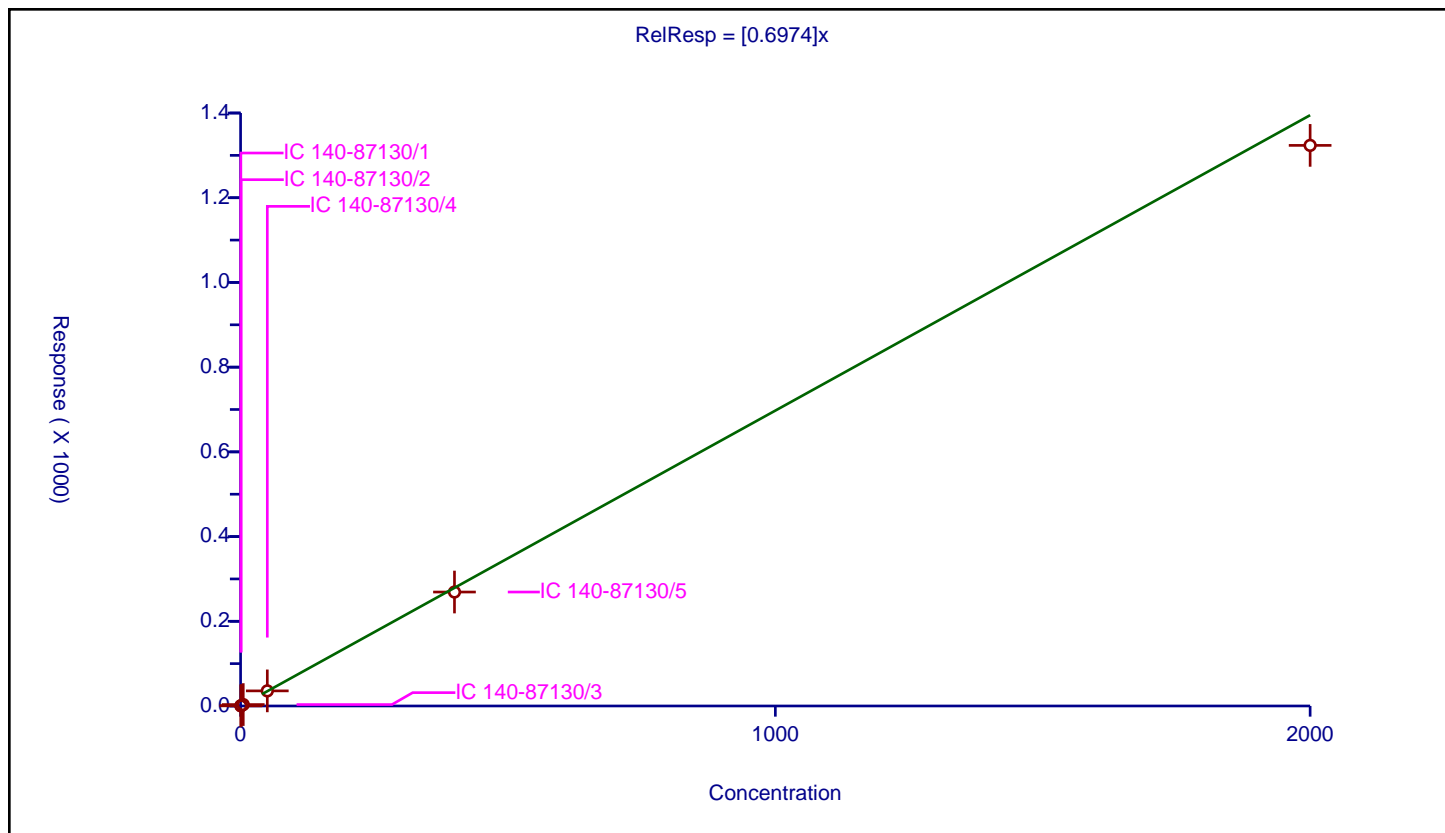
Curve Coefficients

Intercept: 0
 Slope: 0.6974

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.371412	100.0	7116082.0	0.742824	Y
2	IC 140-87130/2	1.0	0.716652	100.0	6585200.0	0.716652	Y
3	IC 140-87130/3	5.0	3.389327	100.0	6664037.0	0.677865	Y
4	IC 140-87130/4	50.0	35.642275	100.0	6587579.0	0.712845	Y
5	IC 140-87130/5	400.0	269.045469	100.0	7006215.0	0.672614	Y
6	IC 140-87130/6	2000.0	1323.549578	100.0	7440630.0	0.661775	Y



Calibration

/ PCB-173

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

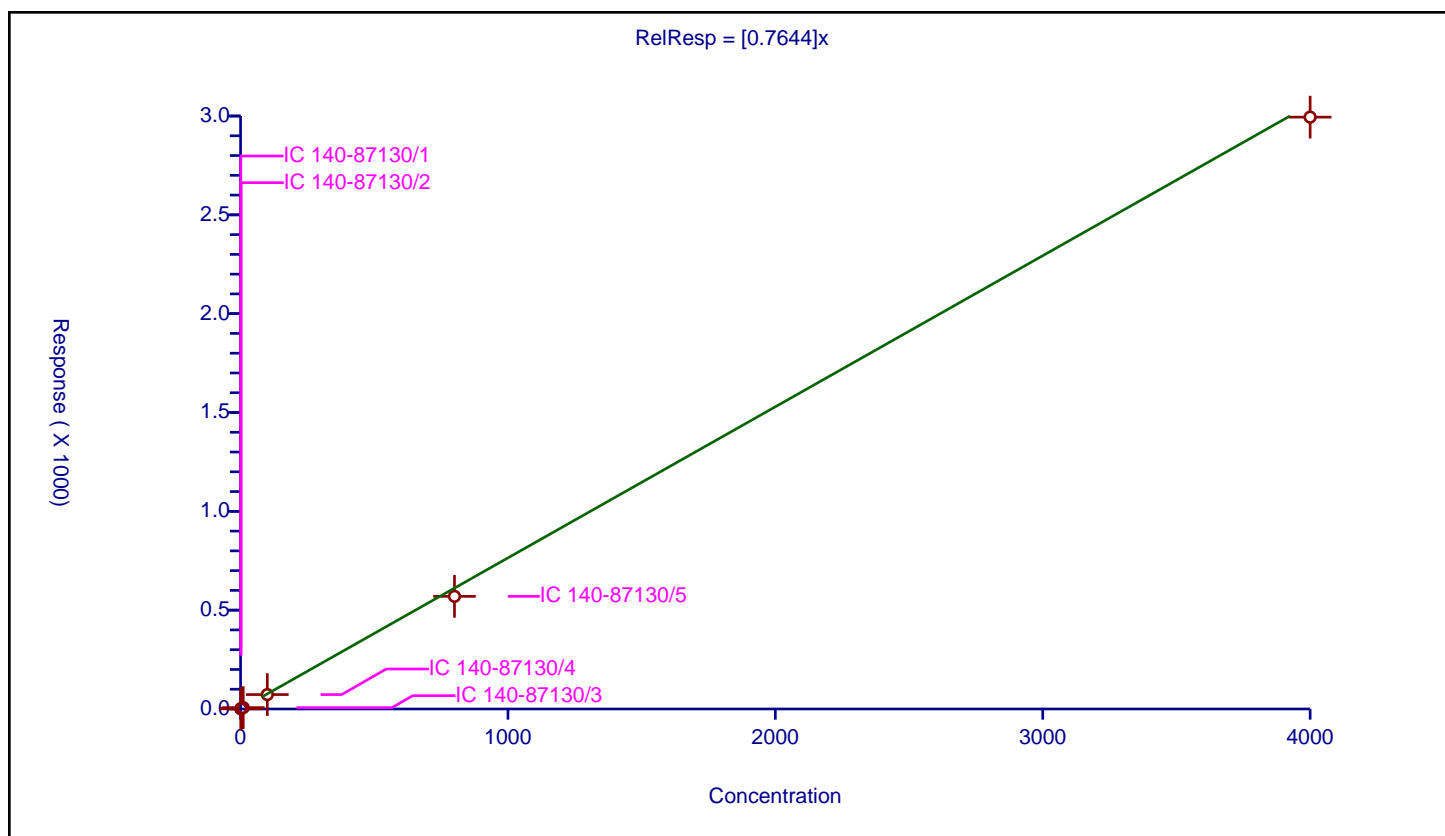
Curve Coefficients

Intercept: 0
 Slope: 0.7644

Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Calibration

/ PCB-174

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

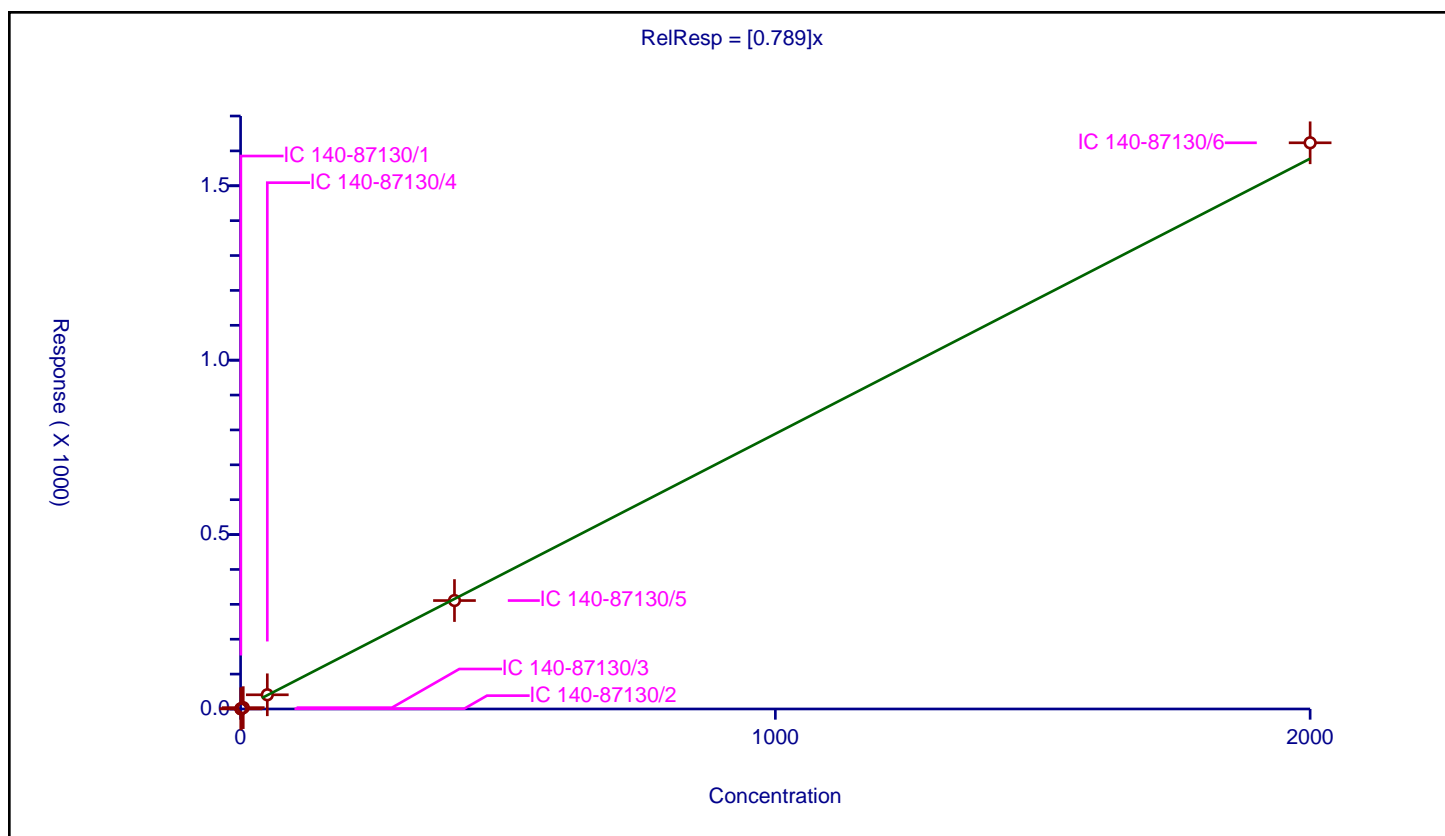
Curve Coefficients

Intercept: 0
 Slope: 0.789

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.424531	100.0	7116082.0	0.849063	Y
2	IC 140-87130/2	1.0	0.704458	100.0	6585200.0	0.704458	Y
3	IC 140-87130/3	5.0	3.885423	100.0	6664037.0	0.777085	Y
4	IC 140-87130/4	50.0	40.710677	100.0	6587579.0	0.814214	Y
5	IC 140-87130/5	400.0	310.912083	100.0	7006215.0	0.77728	Y
6	IC 140-87130/6	2000.0	1623.223665	100.0	7440630.0	0.811612	Y



Calibration

/ PCB-175

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

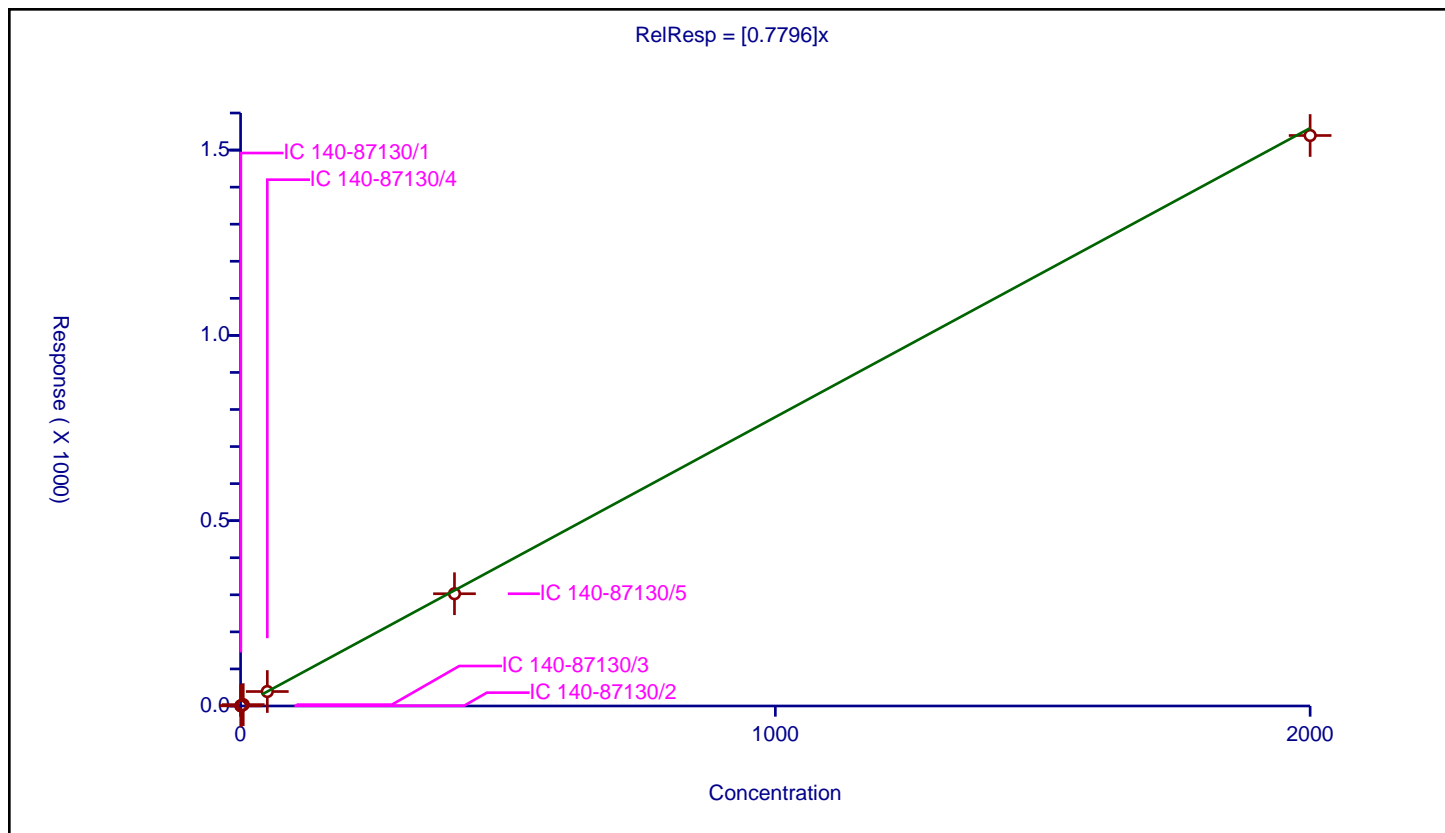
Curve Coefficients

Intercept: 0
 Slope: 0.7796

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.43486	100.0	7116082.0	0.86972	Y
2	IC 140-87130/2	1.0	0.762209	100.0	6585200.0	0.762209	Y
3	IC 140-87130/3	5.0	3.694262	100.0	6664037.0	0.738852	Y
4	IC 140-87130/4	50.0	39.01116	100.0	6587579.0	0.780223	Y
5	IC 140-87130/5	400.0	302.879857	100.0	7006215.0	0.7572	Y
6	IC 140-87130/6	2000.0	1539.316523	100.0	7440630.0	0.769658	Y



Calibration

/ PCB-176

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

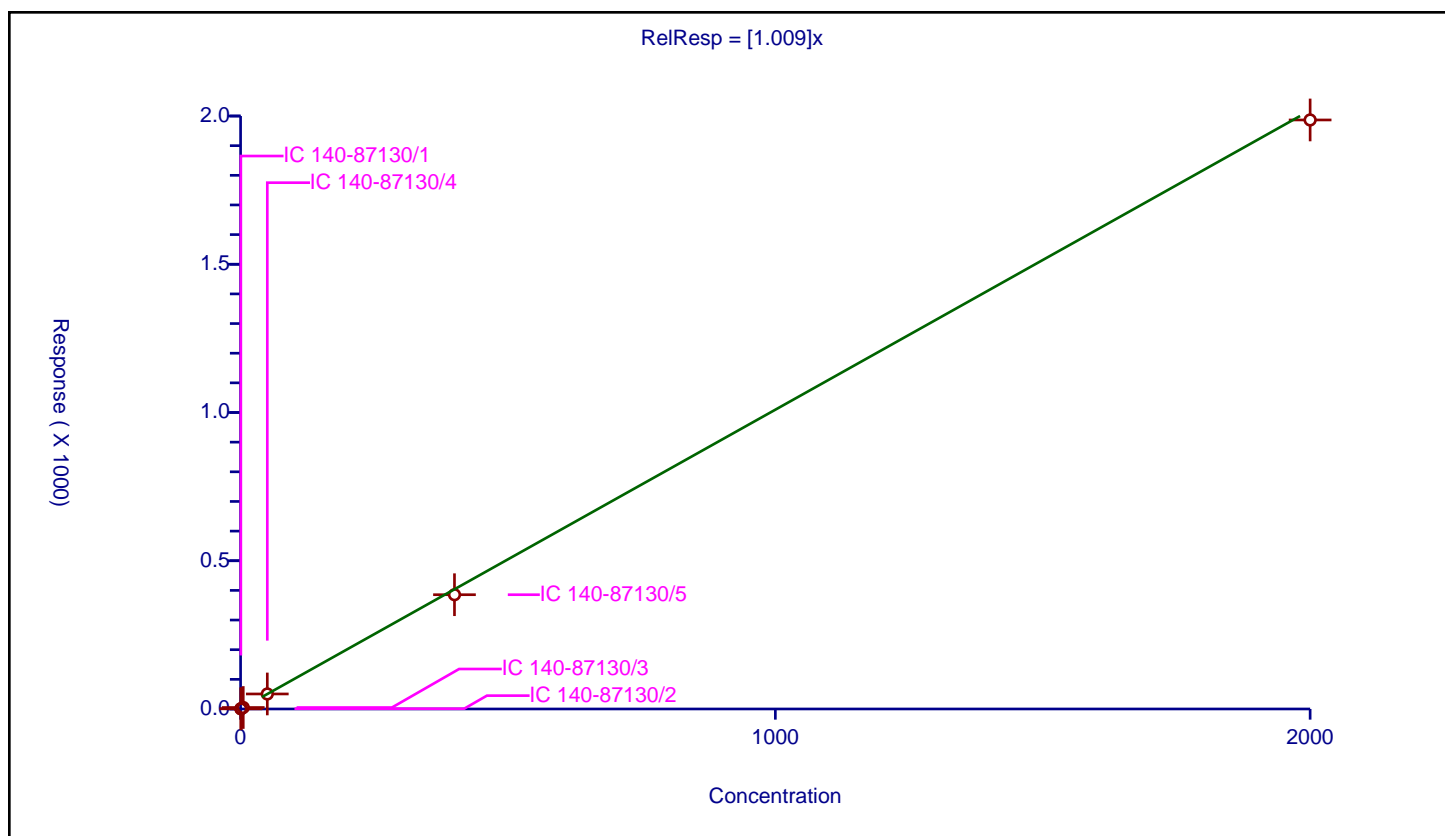
Curve Coefficients

Intercept: 0
 Slope: 1.009

Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.570314	100.0	7116082.0	1.140628	Y
2	IC 140-87130/2	1.0	0.950039	100.0	6585200.0	0.950039	Y
3	IC 140-87130/3	5.0	4.979729	100.0	6664037.0	0.995946	Y
4	IC 140-87130/4	50.0	50.662891	100.0	6587579.0	1.013258	Y
5	IC 140-87130/5	400.0	385.481076	100.0	7006215.0	0.963703	Y
6	IC 140-87130/6	2000.0	1986.671088	100.0	7440630.0	0.993336	Y



Calibration

/ PCB-177

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

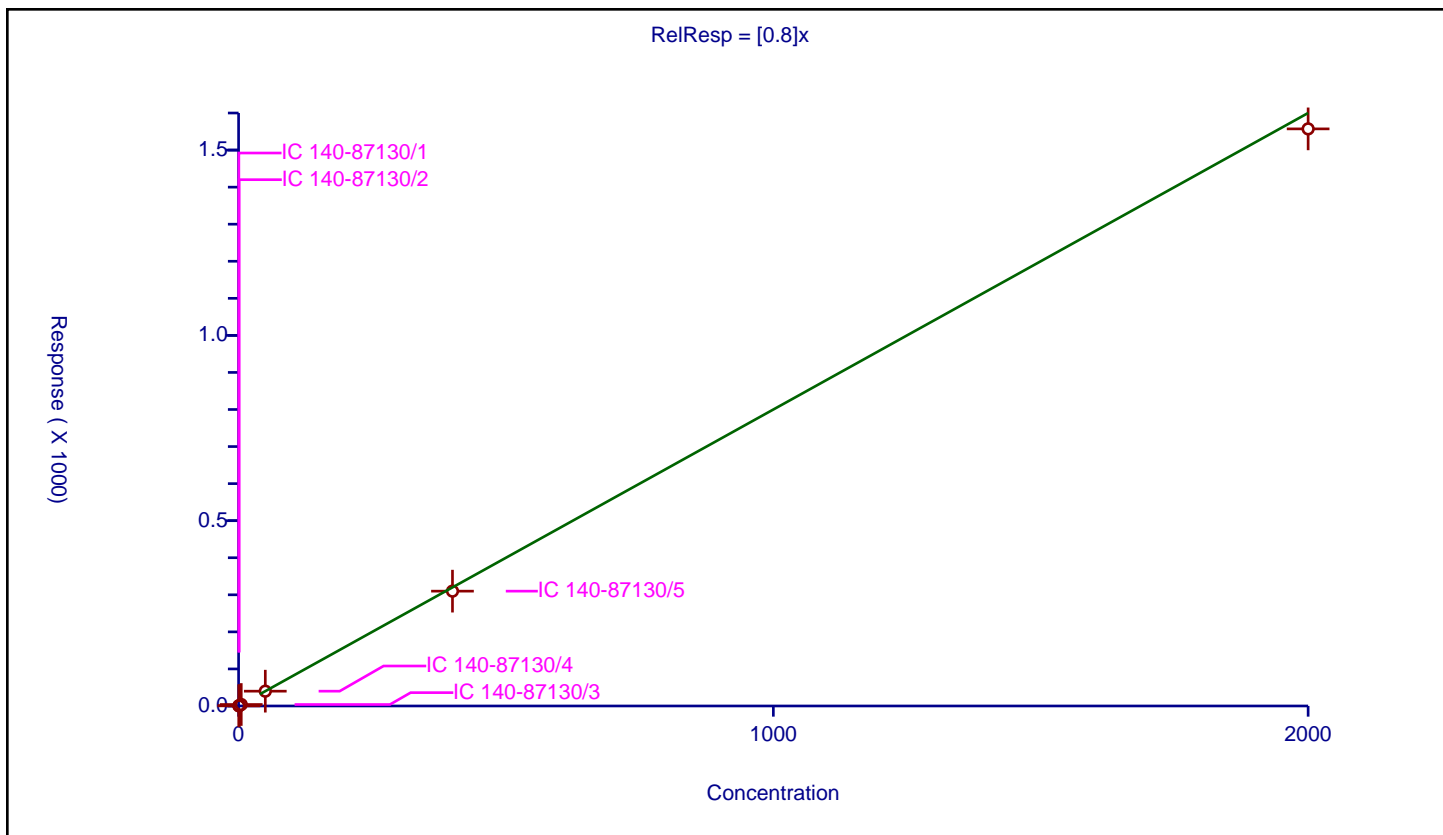
Curve Coefficients

Intercept: 0
 Slope: 0.8

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.420231	100.0	7116082.0	0.840462	Y
2	IC 140-87130/2	1.0	0.811016	100.0	6585200.0	0.811016	Y
3	IC 140-87130/3	5.0	3.977904	100.0	6664037.0	0.795581	Y
4	IC 140-87130/4	50.0	39.977904	100.0	6587579.0	0.799558	Y
5	IC 140-87130/5	400.0	309.878501	100.0	7006215.0	0.774696	Y
6	IC 140-87130/6	2000.0	1557.201218	100.0	7440630.0	0.778601	Y



Calibration

/ PCB-178

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

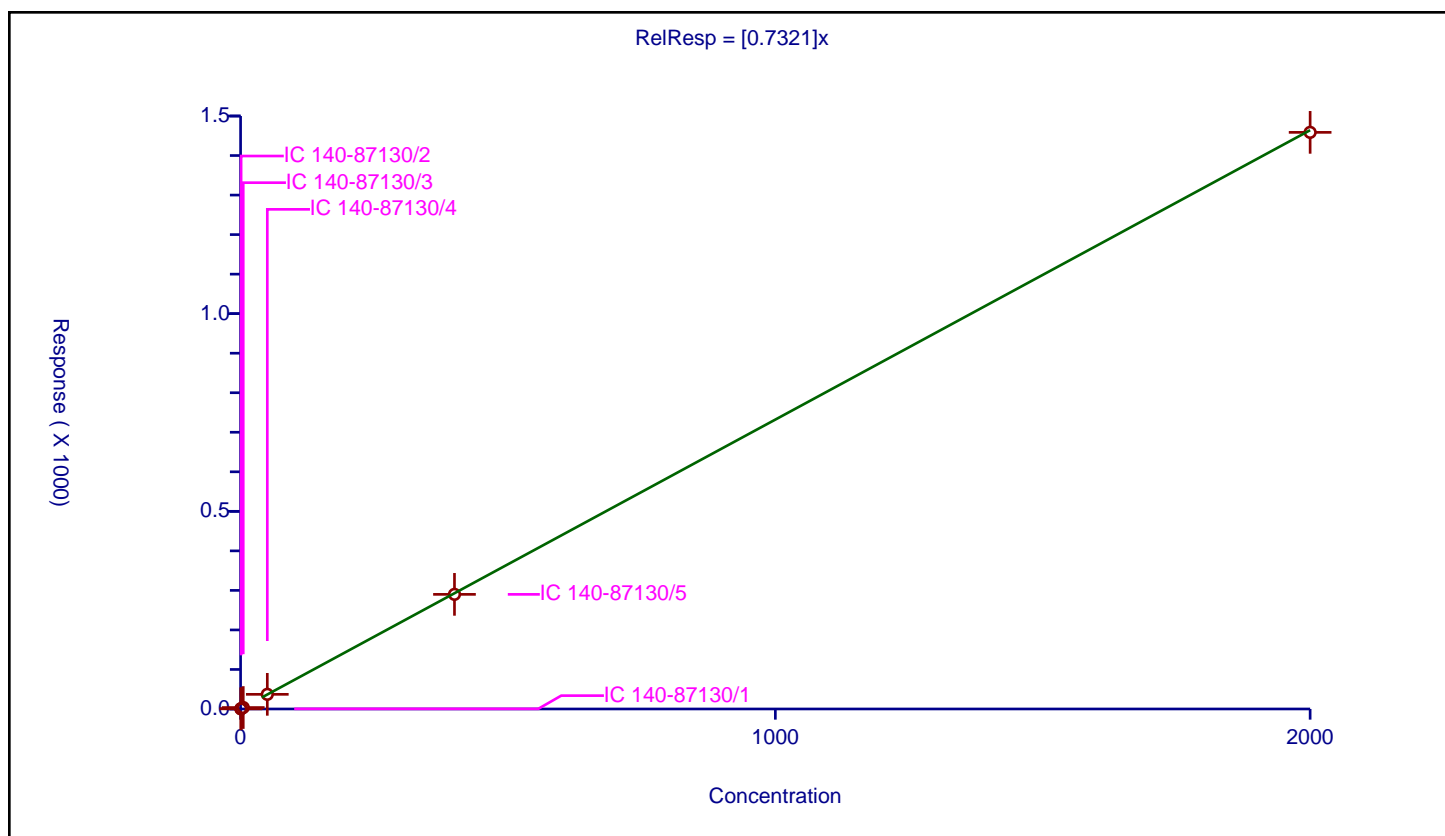
Curve Coefficients

Intercept: 0
 Slope: 0.7321

Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.355308	100.0	7116082.0	0.710616	Y
2	IC 140-87130/2	1.0	0.746462	100.0	6585200.0	0.746462	Y
3	IC 140-87130/3	5.0	3.700895	100.0	6664037.0	0.740179	Y
4	IC 140-87130/4	50.0	37.046766	100.0	6587579.0	0.740935	Y
5	IC 140-87130/5	400.0	289.95459	100.0	7006215.0	0.724886	Y
6	IC 140-87130/6	2000.0	1458.627549	100.0	7440630.0	0.729314	Y



Calibration

/ PCB-178L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

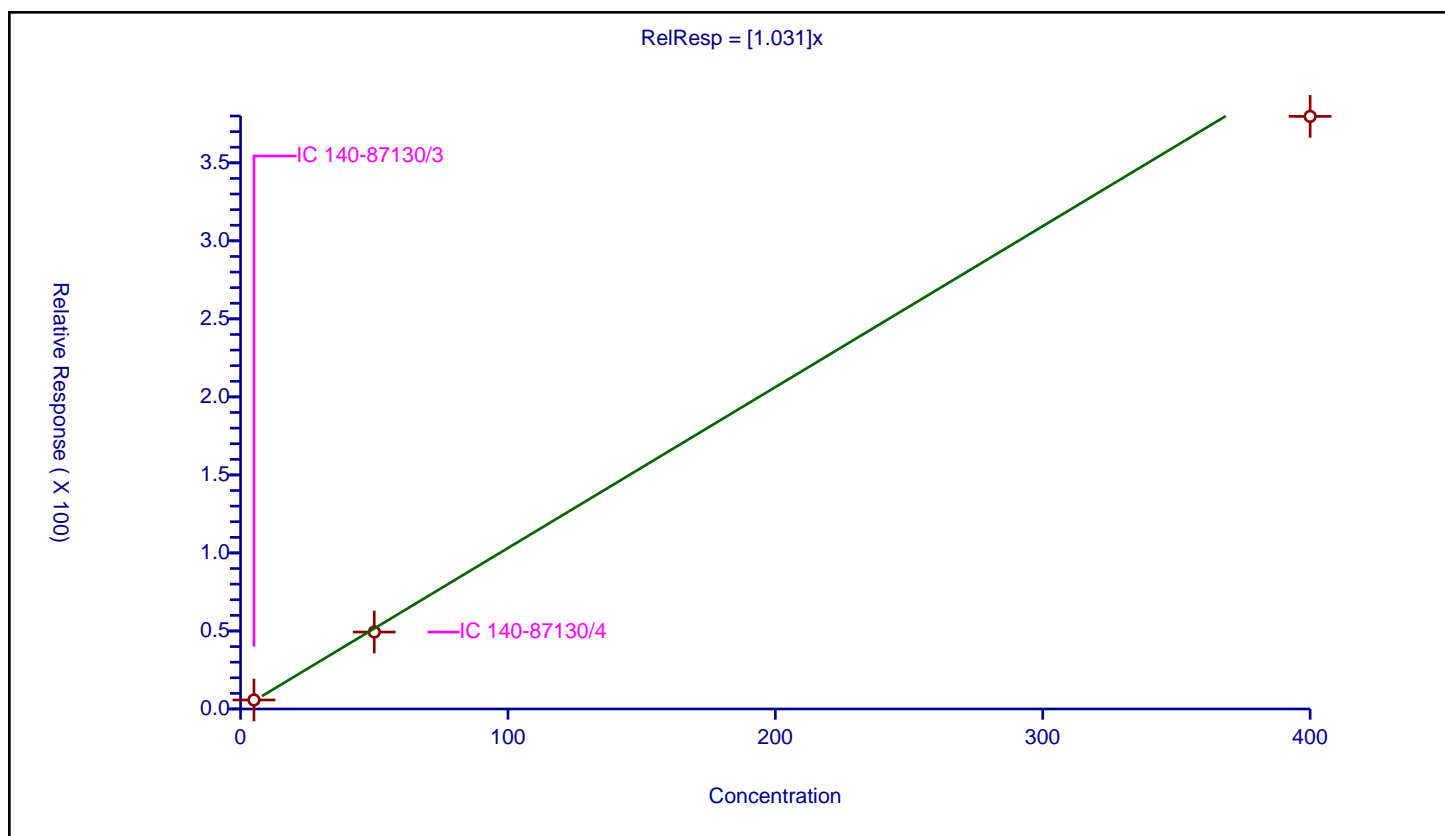
Curve Coefficients

Intercept: 0
 Slope: 1.031

Error Coefficients

Relative Standard Deviation: 10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.792413	100.0	5019998.0	1.158483	Y
2	IC 140-87130/4	50.0	49.304117	100.0	4977558.0	0.986082	Y
3	IC 140-87130/5	400.0	379.768667	100.0	5309833.0	0.949422	Y



Calibration

/ PCB-179

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

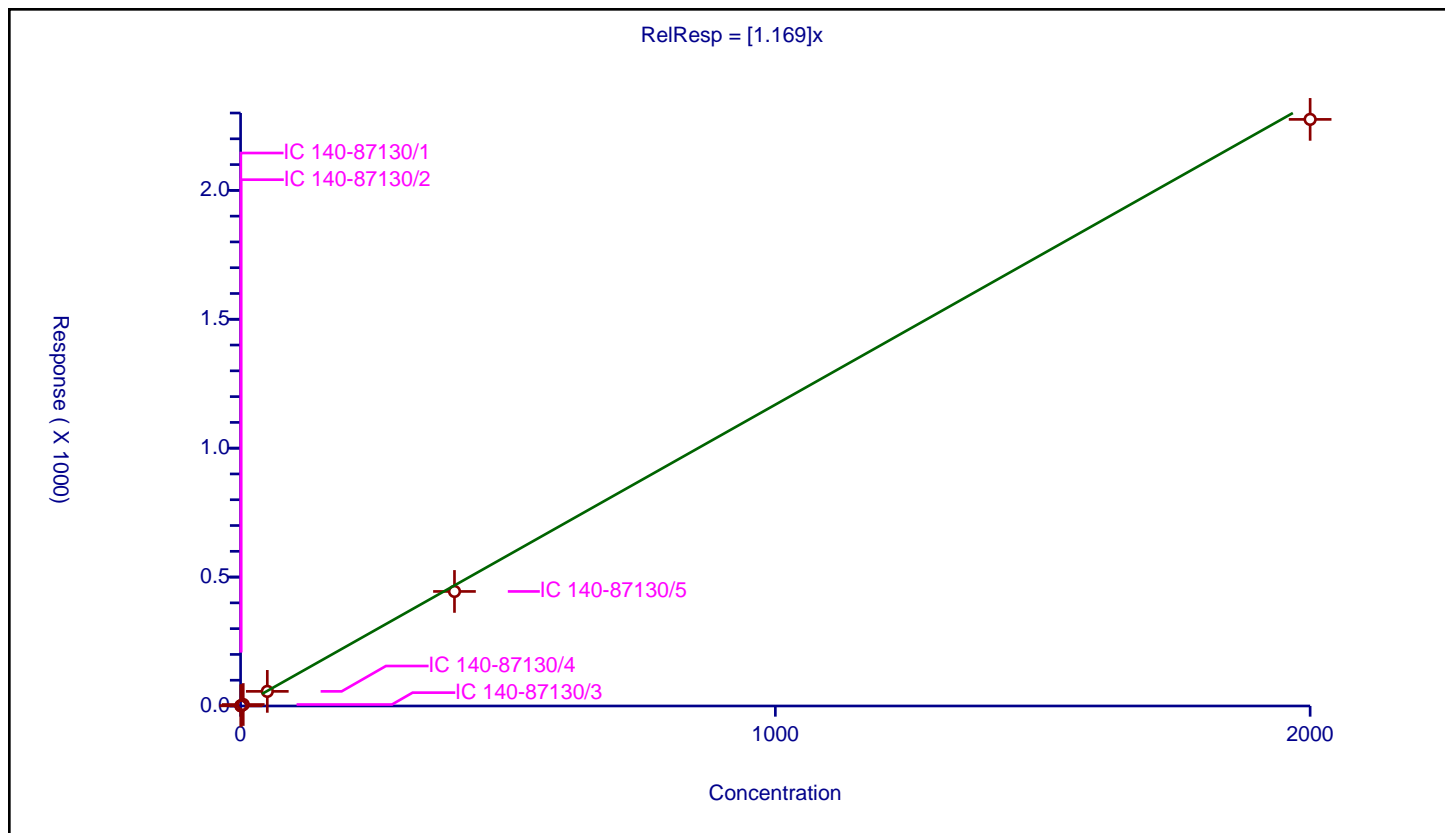
Curve Coefficients

Intercept: 0
 Slope: 1.169

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.657342	100.0	7116082.0	1.314684	Y
2	IC 140-87130/2	1.0	1.170838	100.0	6585200.0	1.170838	Y
3	IC 140-87130/3	5.0	5.728405	100.0	6664037.0	1.145681	Y
4	IC 140-87130/4	50.0	56.681582	100.0	6587579.0	1.133632	Y
5	IC 140-87130/5	400.0	444.329071	100.0	7006215.0	1.110823	Y
6	IC 140-87130/6	2000.0	2275.27458	100.0	7440630.0	1.137637	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

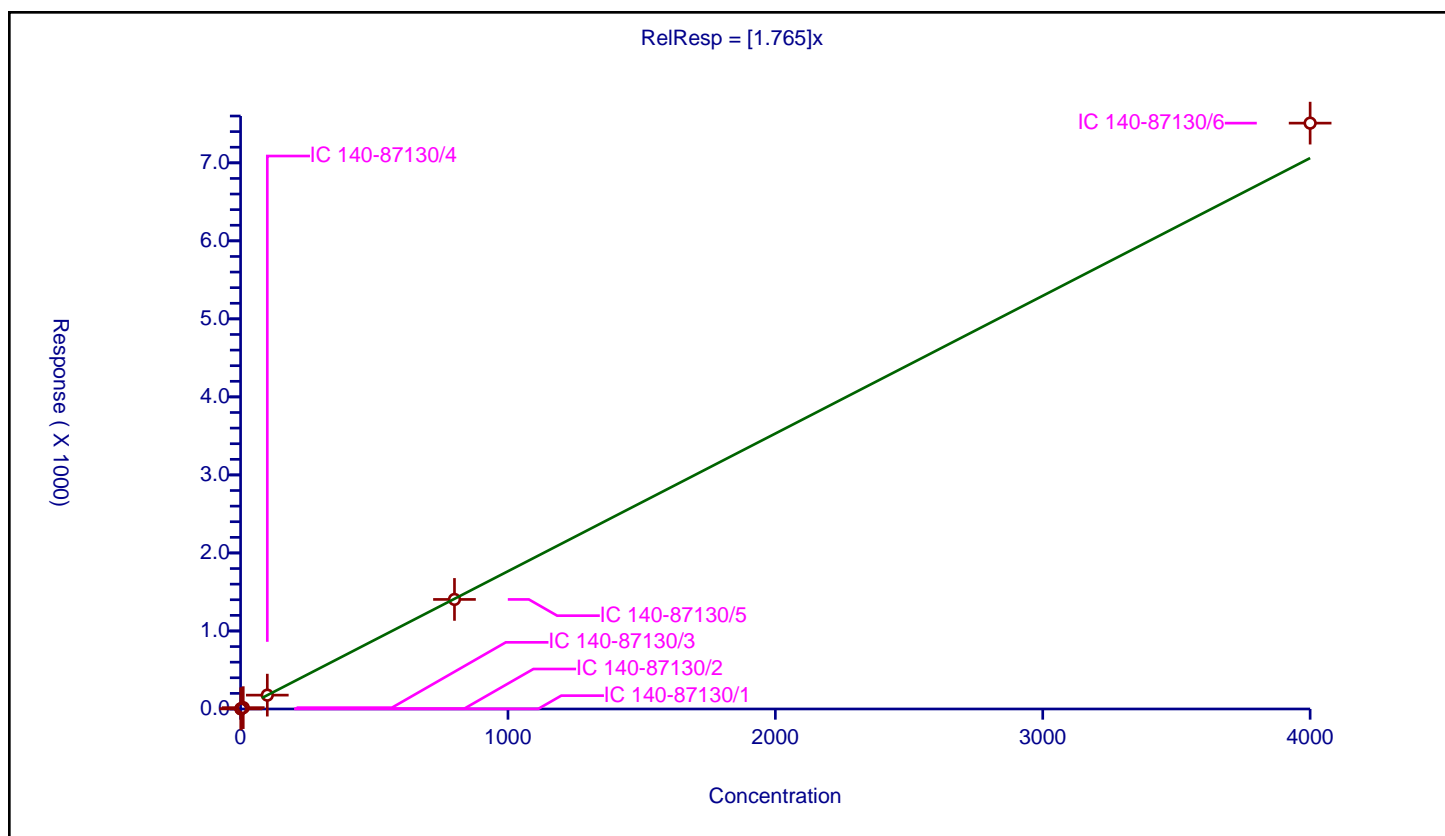
Curve Coefficients

Intercept: 0
Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Calibration

/ PCB-18/30

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

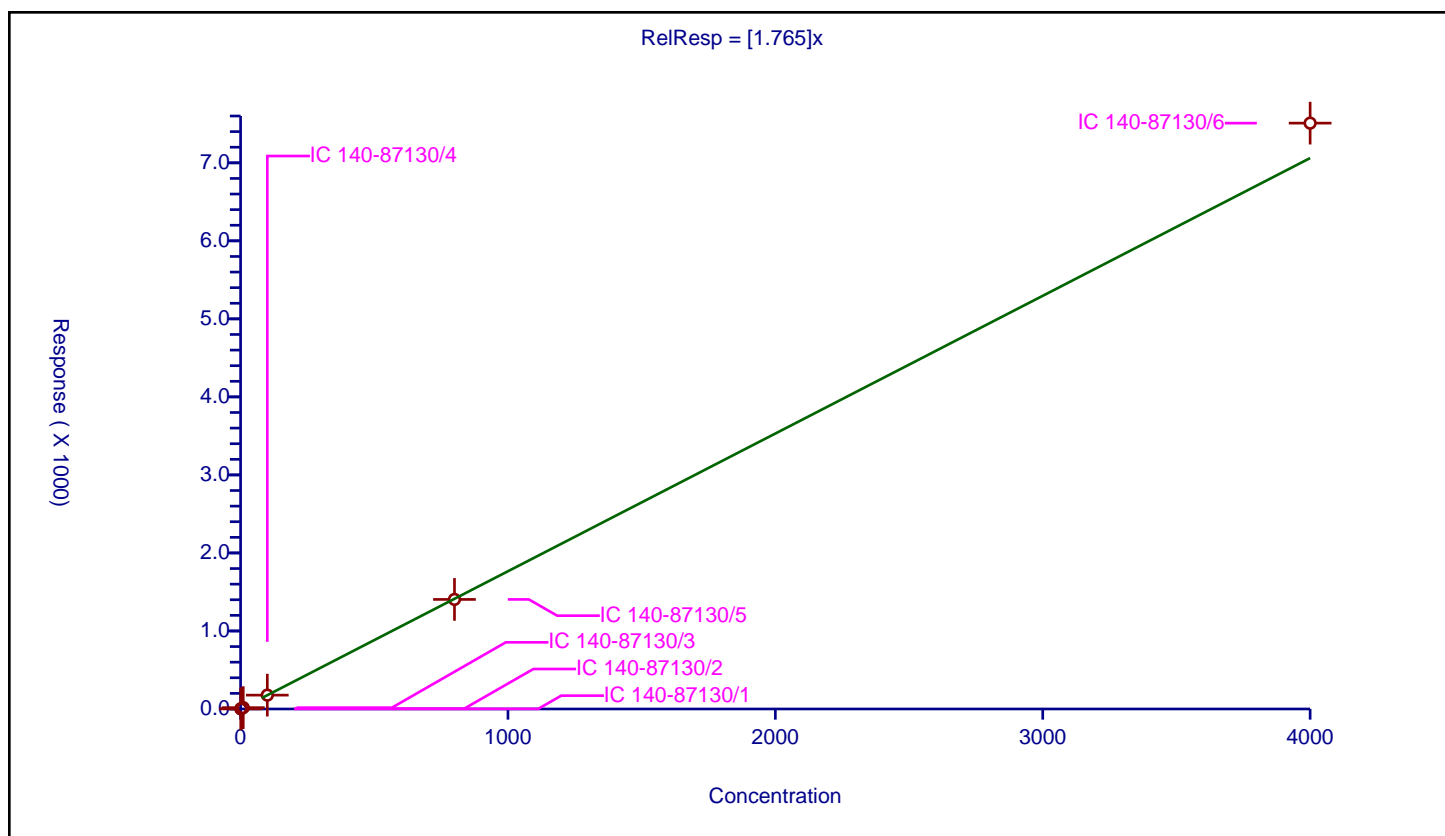
Curve Coefficients

Intercept: 0
 Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Calibration

/ PCB-180

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

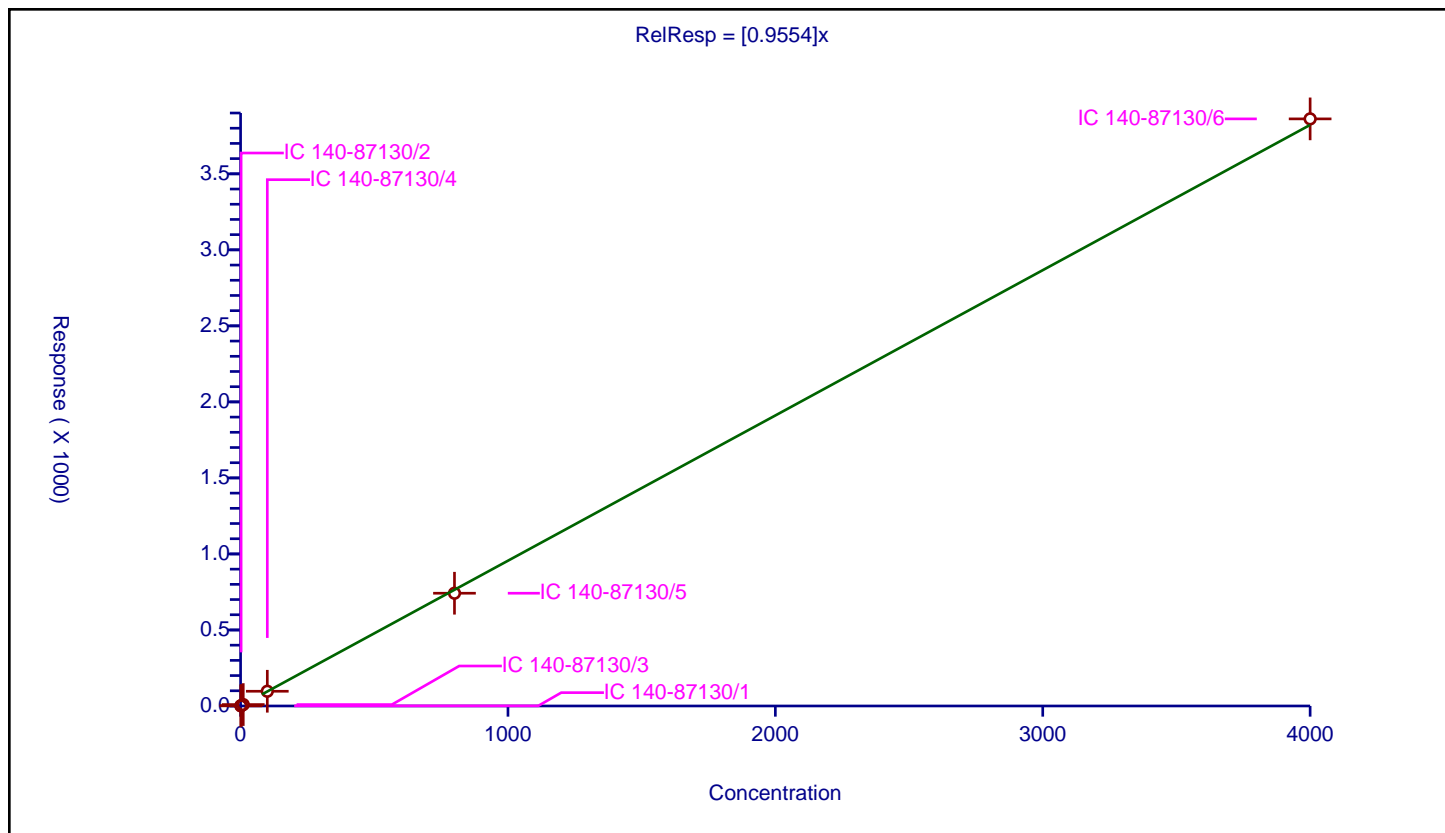
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-180/193

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

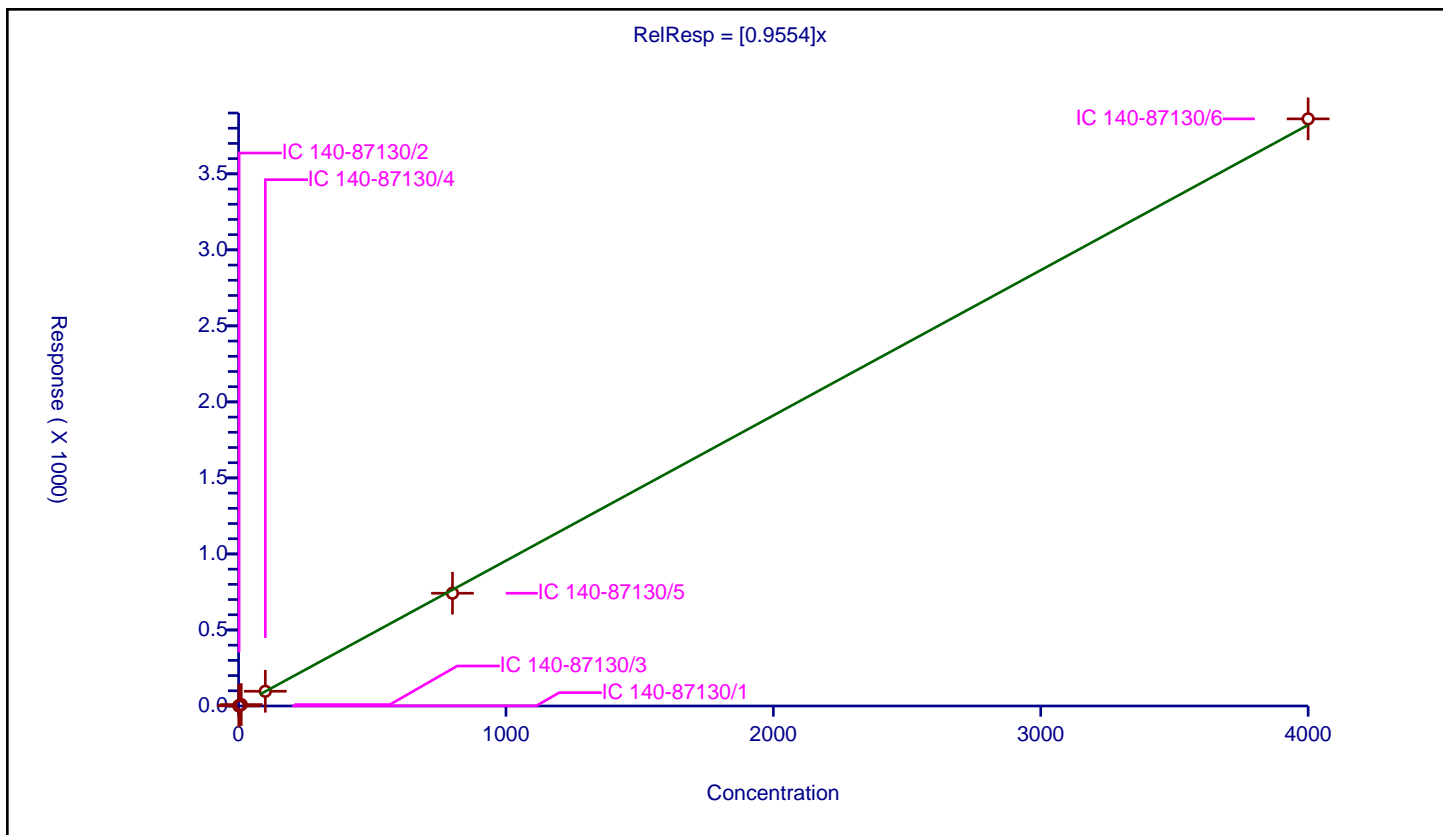
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-181

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

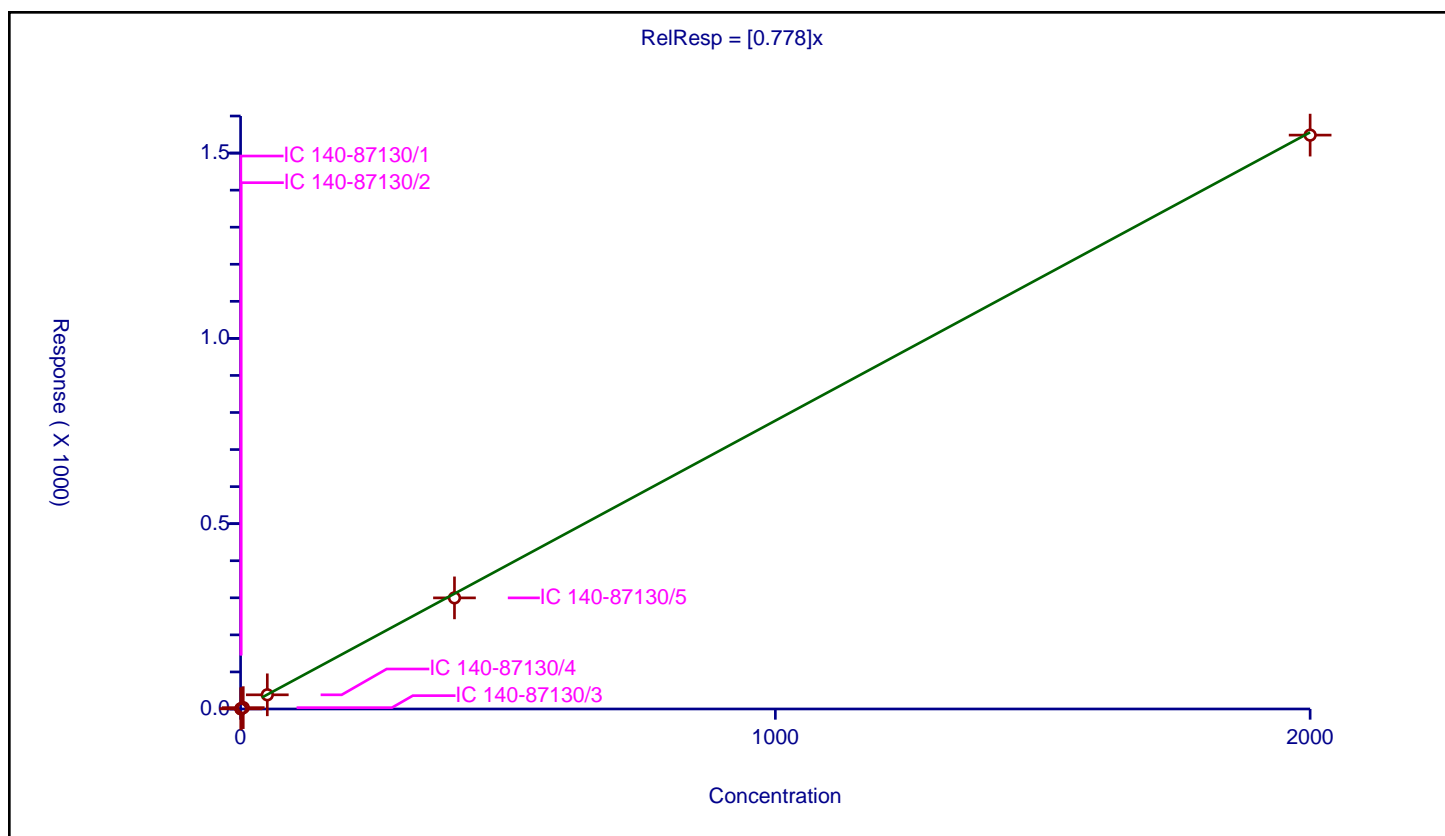
Curve Coefficients

Intercept: 0
 Slope: 0.778

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.402427	100.0	7116082.0	0.804853	Y
2	IC 140-87130/2	1.0	0.844409	100.0	6585200.0	0.844409	Y
3	IC 140-87130/3	5.0	3.647774	100.0	6664037.0	0.729555	Y
4	IC 140-87130/4	50.0	38.269385	100.0	6587579.0	0.765388	Y
5	IC 140-87130/5	400.0	299.805216	100.0	7006215.0	0.749513	Y
6	IC 140-87130/6	2000.0	1548.502815	100.0	7440630.0	0.774251	Y



Calibration

/ PCB-182

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

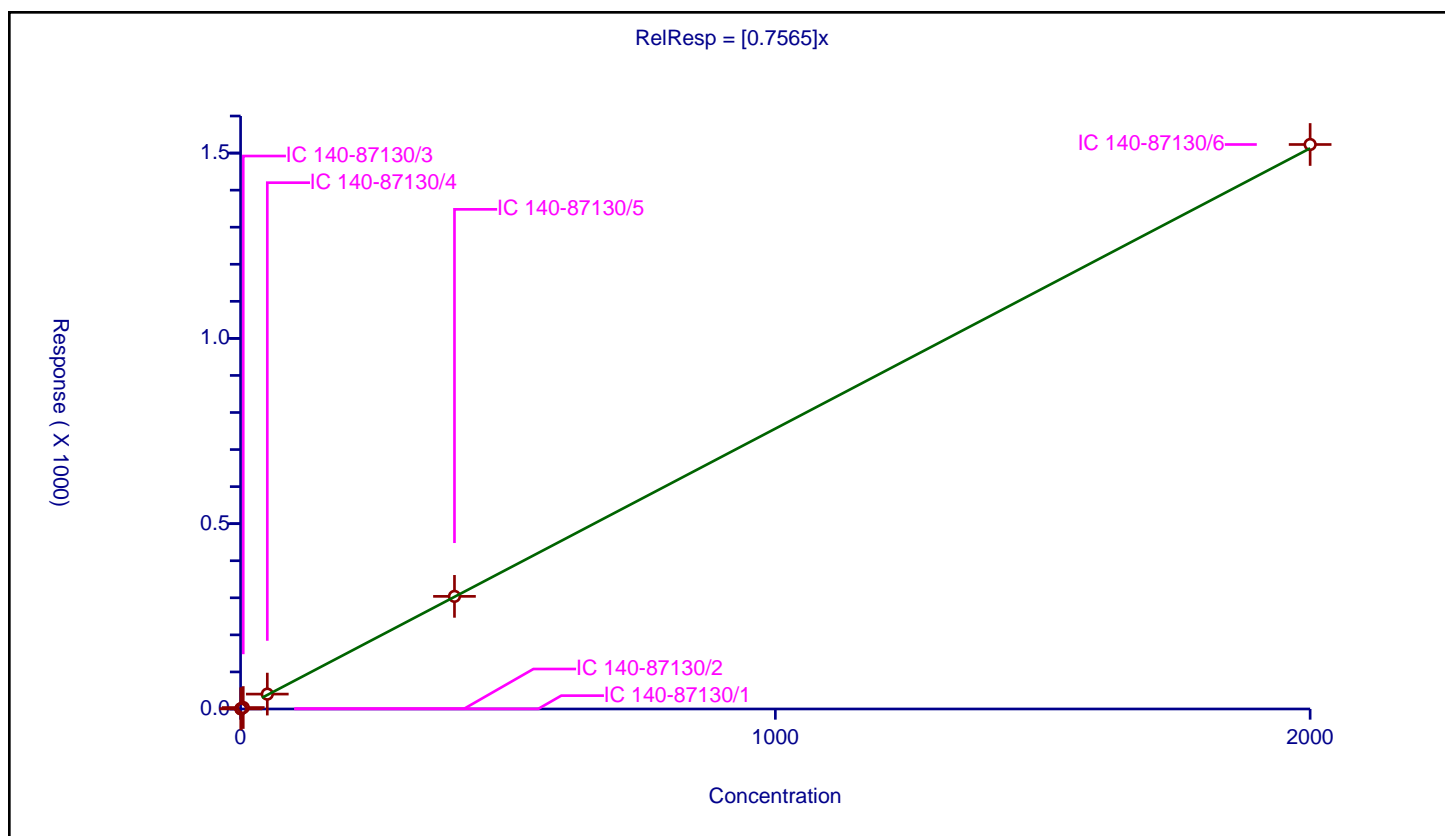
Curve Coefficients

Intercept: 0
Slope: 0.7565

Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.346314	100.0	7116082.0	0.692628	Y
2	IC 140-87130/2	1.0	0.731823	100.0	6585200.0	0.731823	Y
3	IC 140-87130/3	5.0	3.946692	100.0	6664037.0	0.789338	Y
4	IC 140-87130/4	50.0	40.182228	100.0	6587579.0	0.803645	Y
5	IC 140-87130/5	400.0	303.913739	100.0	7006215.0	0.759784	Y
6	IC 140-87130/6	2000.0	1523.171748	100.0	7440630.0	0.761586	Y



Calibration

/ PCB-183

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

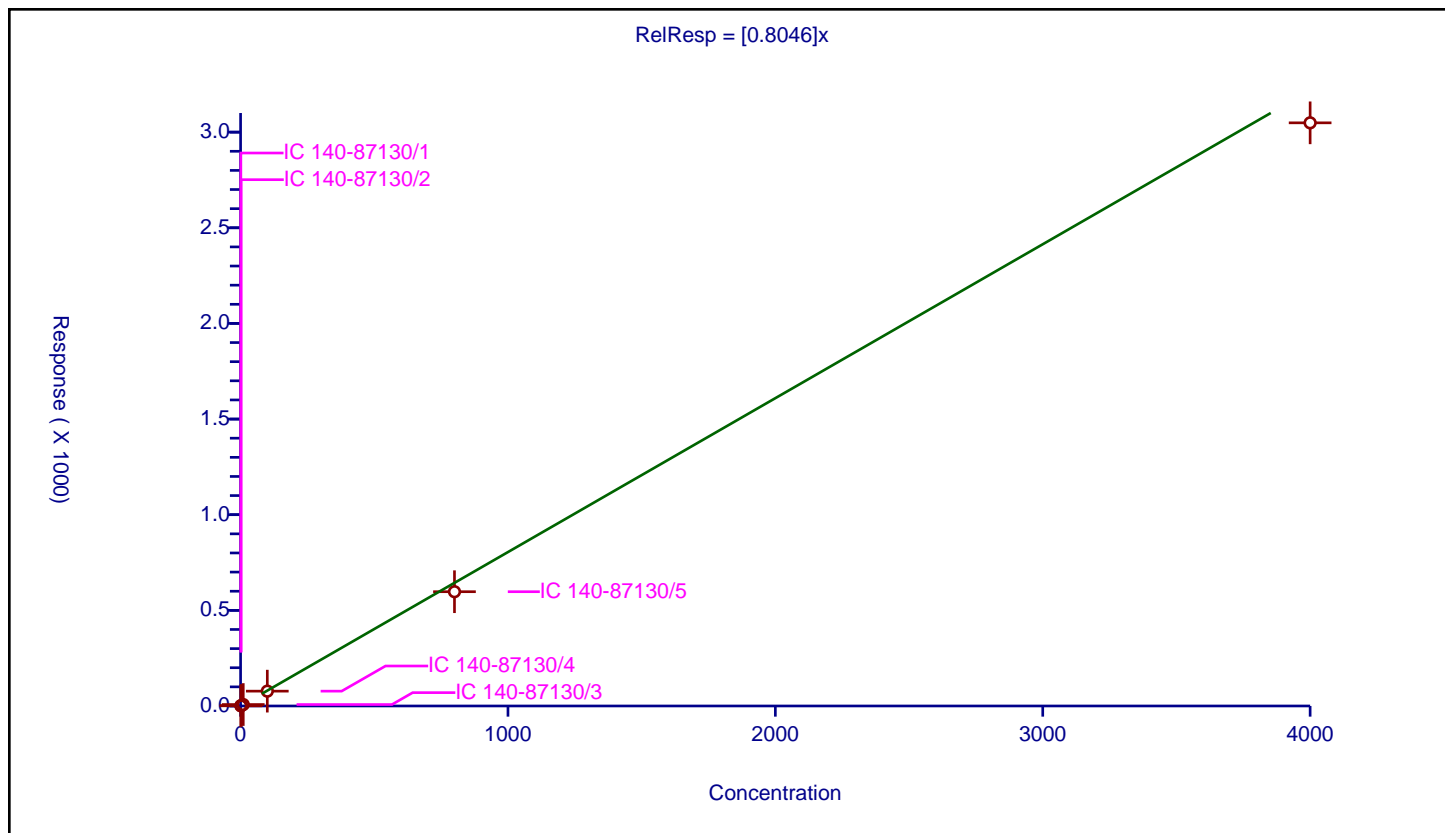
Curve Coefficients

Intercept: 0
 Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-183/185

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

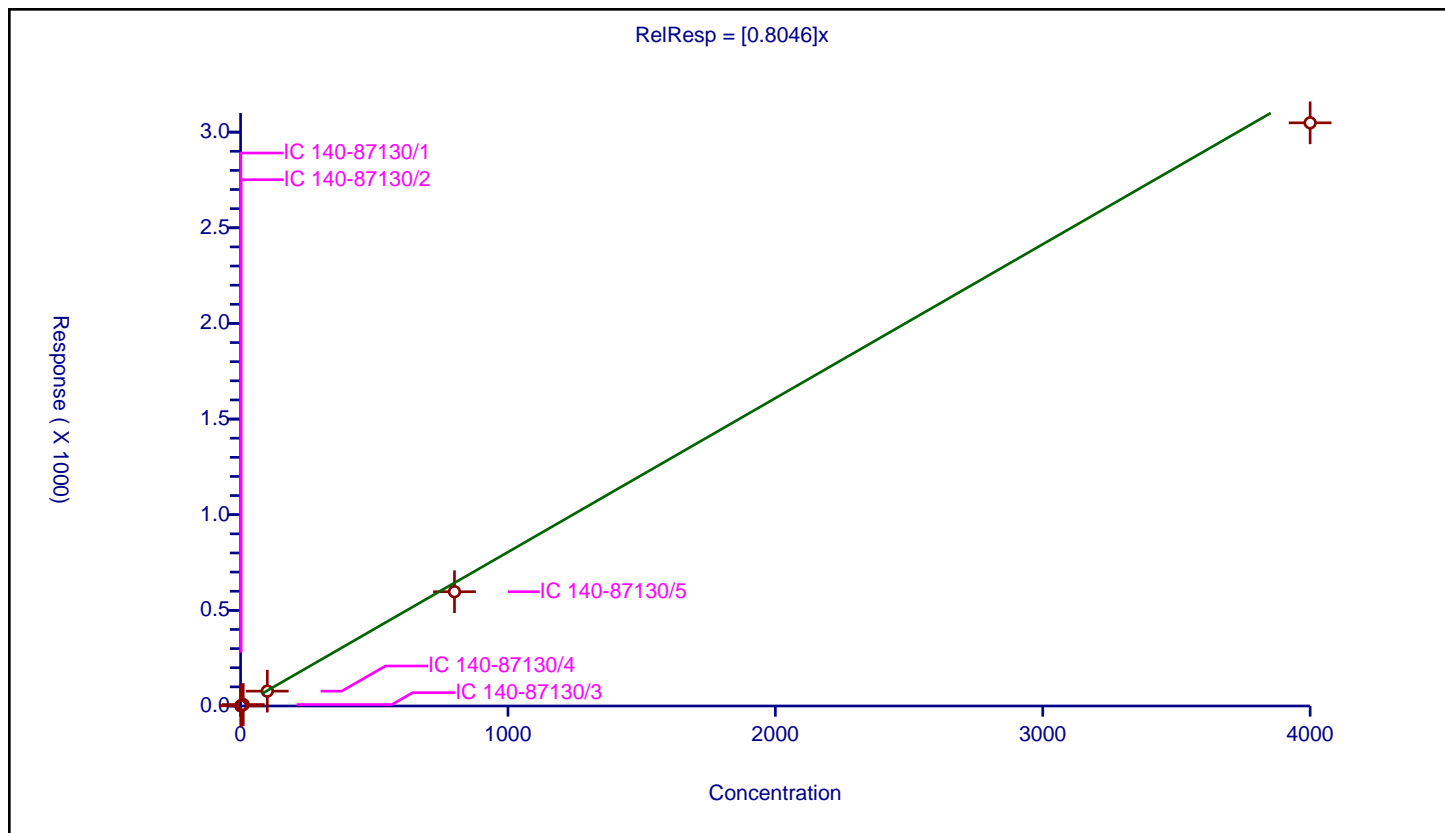
Curve Coefficients

Intercept: 0
 Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-184

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

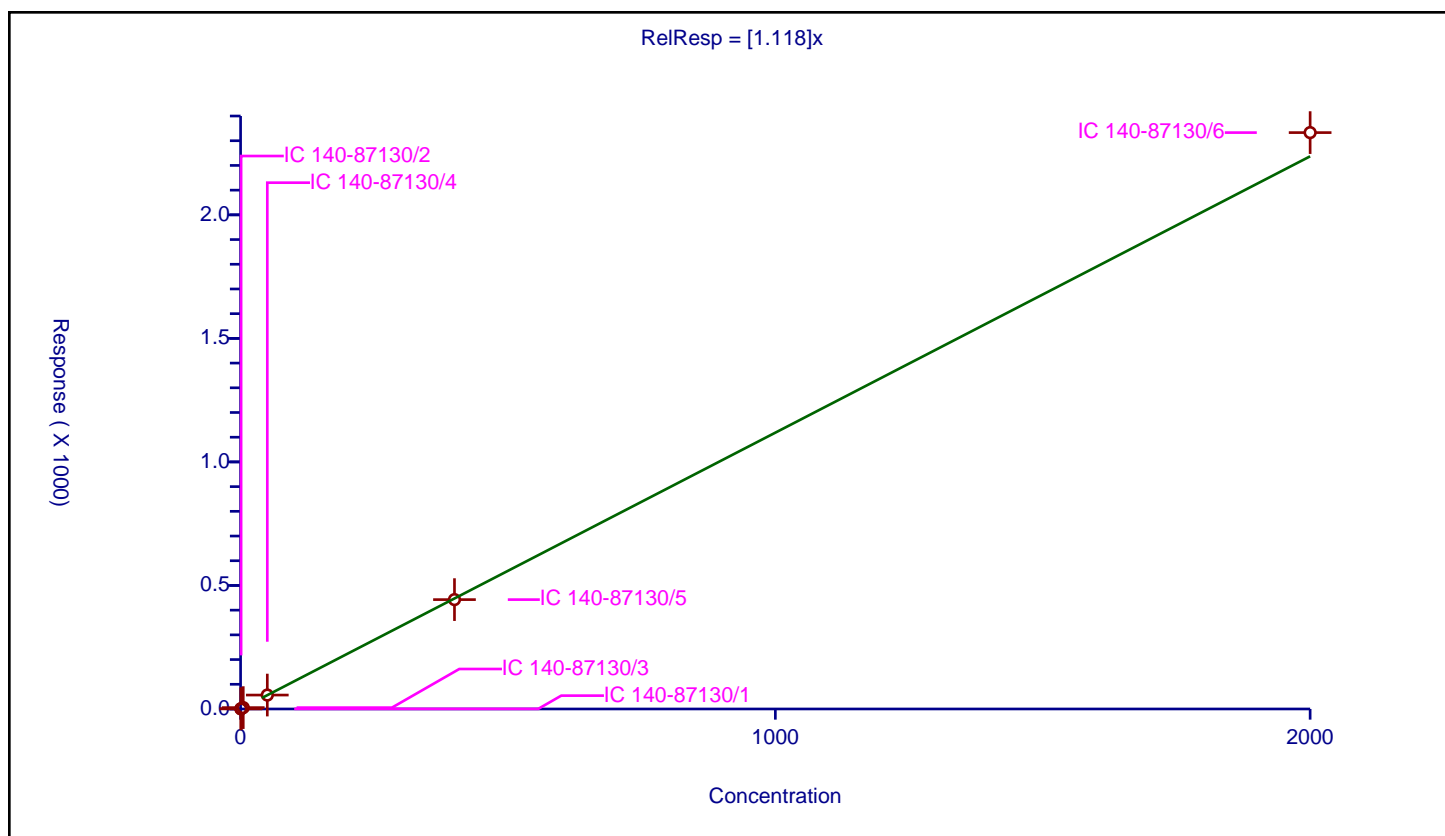
Curve Coefficients

Intercept: 0
 Slope: 1.118

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.535885	100.0	7116082.0	1.07177	Y
2	IC 140-87130/2	1.0	1.125995	100.0	6585200.0	1.125995	Y
3	IC 140-87130/3	5.0	5.558913	100.0	6664037.0	1.111783	Y
4	IC 140-87130/4	50.0	56.38639	100.0	6587579.0	1.127728	Y
5	IC 140-87130/5	400.0	442.725409	100.0	7006215.0	1.106814	Y
6	IC 140-87130/6	2000.0	2332.867311	100.0	7440630.0	1.166434	Y



Calibration

/ PCB-185

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

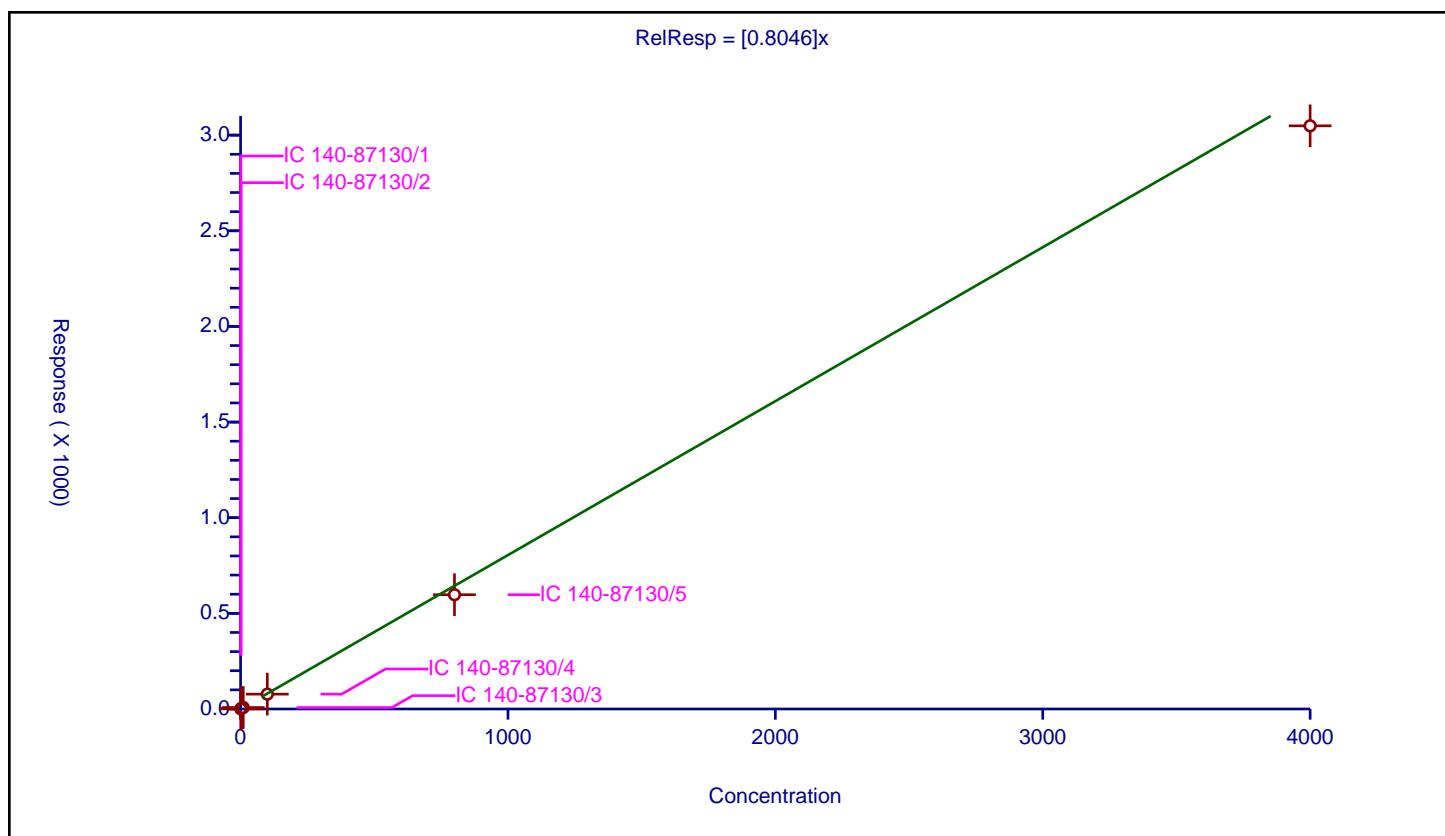
Curve Coefficients

Intercept: 0
 Slope: 0.8046

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Calibration

/ PCB-186

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

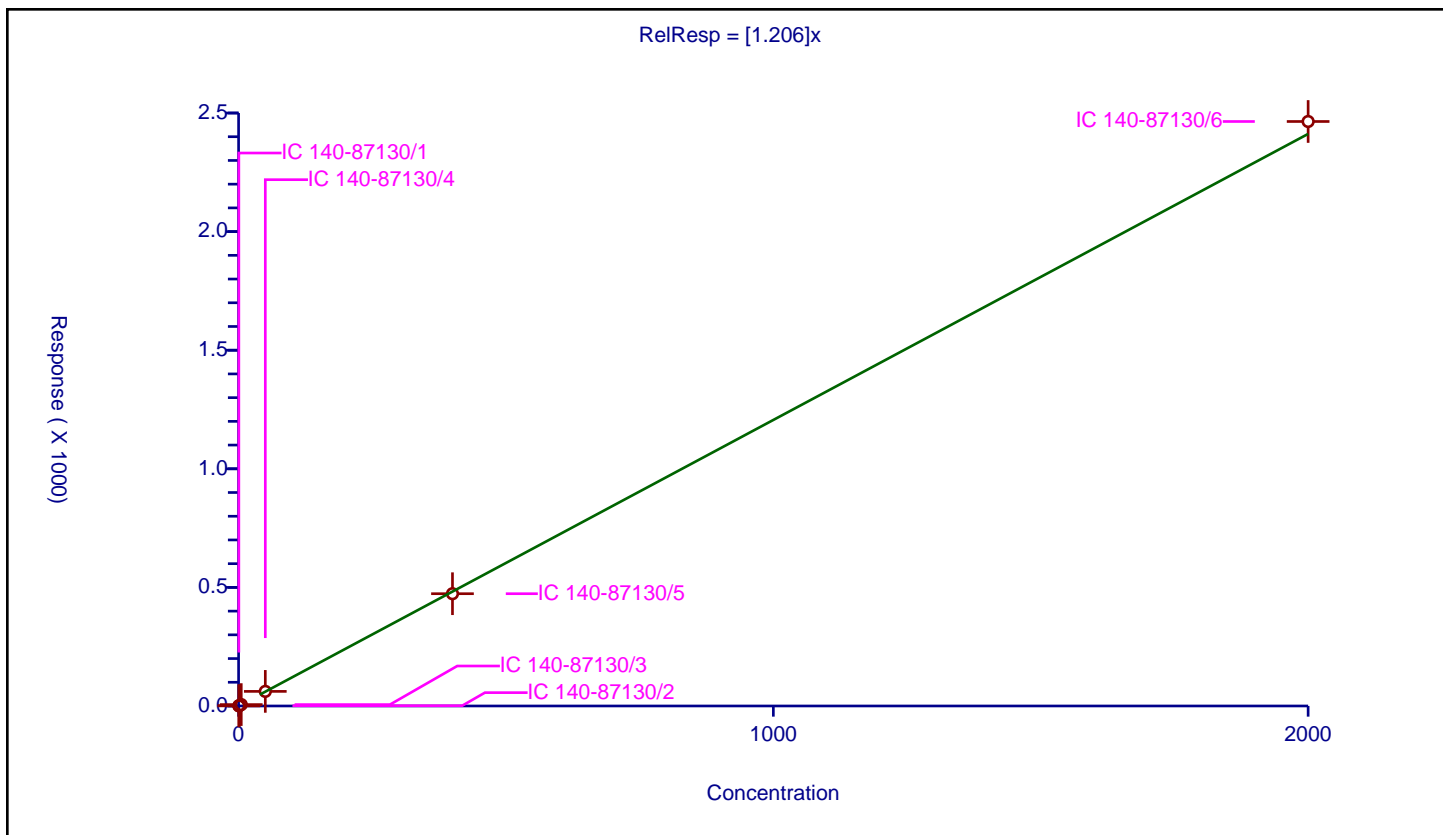
Curve Coefficients

Intercept: 0
Slope: 1.206

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.628604	100.0	7116082.0	1.257209	Y
2	IC 140-87130/2	1.0	1.149077	100.0	6585200.0	1.149077	Y
3	IC 140-87130/3	5.0	5.918064	100.0	6664037.0	1.183613	Y
4	IC 140-87130/4	50.0	61.502352	100.0	6587579.0	1.230047	Y
5	IC 140-87130/5	400.0	473.346622	100.0	7006215.0	1.183367	Y
6	IC 140-87130/6	2000.0	2464.281049	100.0	7440630.0	1.232141	Y



Calibration

/ PCB-187

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

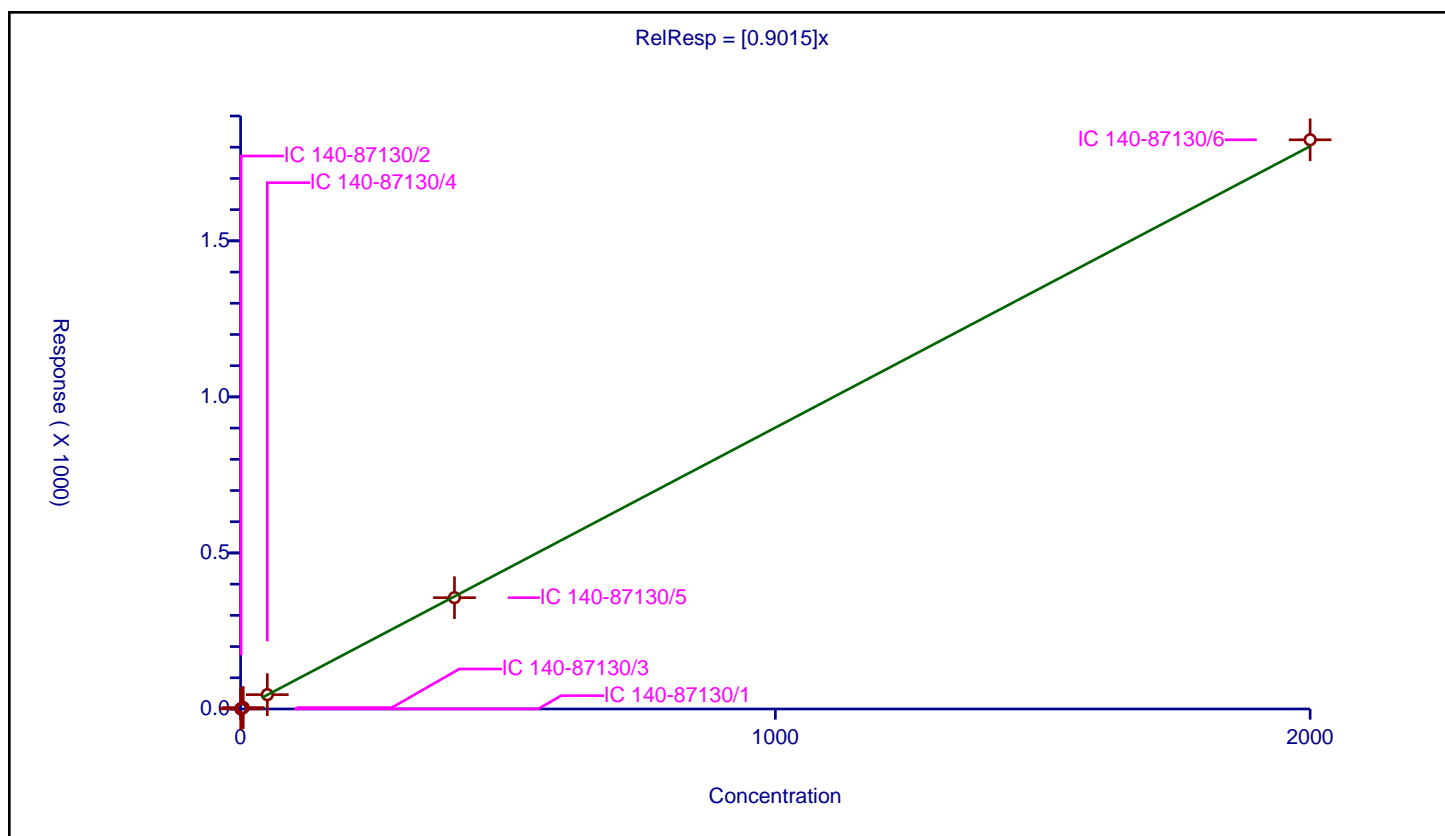
Curve Coefficients

Intercept: 0
Slope: 0.9015

Error Coefficients

Relative Standard Deviation: 2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436364	100.0	7116082.0	0.872727	Y
2	IC 140-87130/2	1.0	0.925348	100.0	6585200.0	0.925348	Y
3	IC 140-87130/3	5.0	4.447409	100.0	6664037.0	0.889482	Y
4	IC 140-87130/4	50.0	45.892945	100.0	6587579.0	0.917859	Y
5	IC 140-87130/5	400.0	356.673596	100.0	7006215.0	0.891684	Y
6	IC 140-87130/6	2000.0	1823.906779	100.0	7440630.0	0.911953	Y



Calibration

/ PCB-188

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

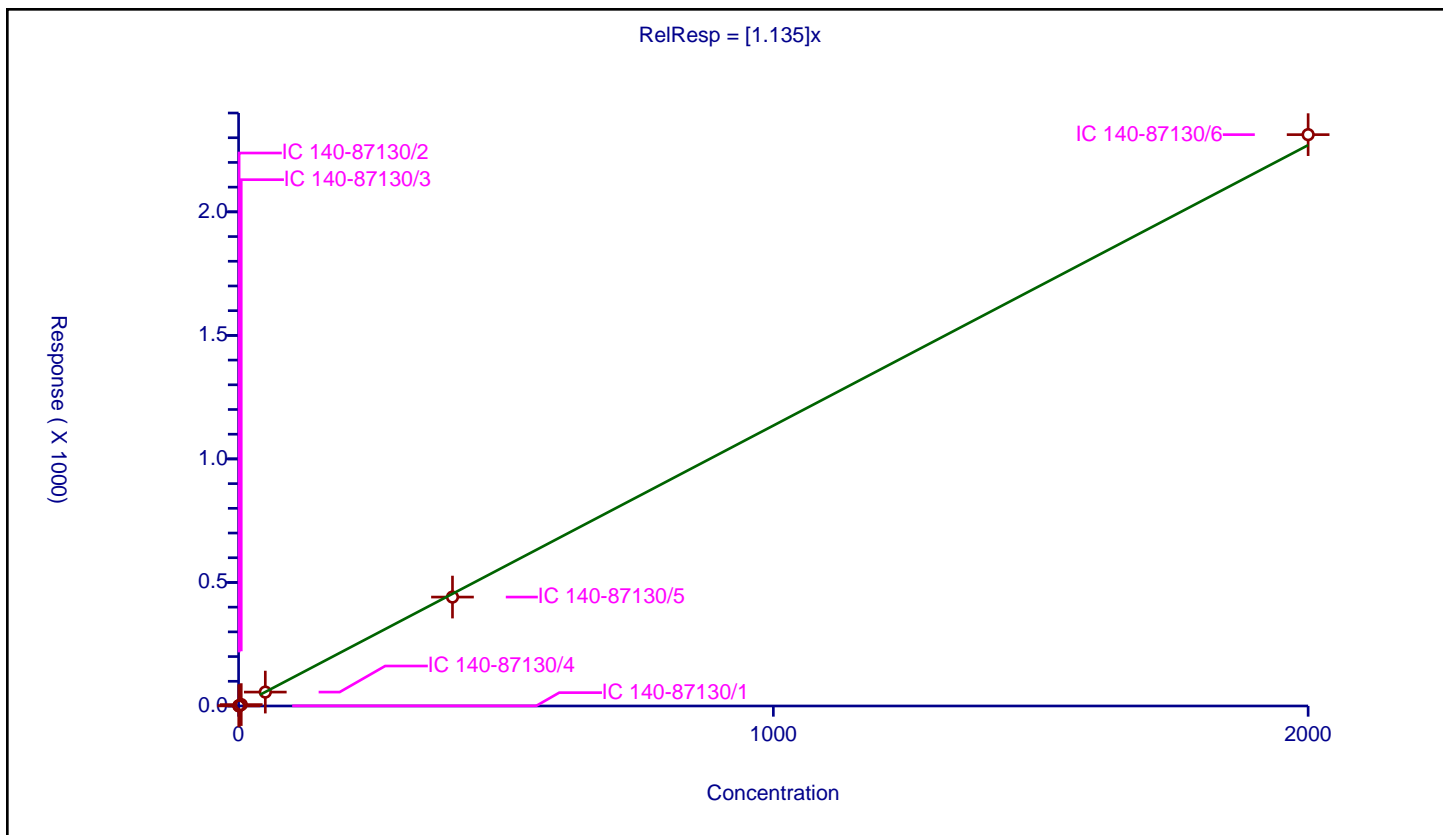
Curve Coefficients

Intercept: 0
 Slope: 1.135

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.557793	100.0	7116082.0	1.115586	Y
2	IC 140-87130/2	1.0	1.170443	100.0	6585200.0	1.170443	Y
3	IC 140-87130/3	5.0	5.700374	100.0	6664037.0	1.140075	Y
4	IC 140-87130/4	50.0	56.267105	100.0	6587579.0	1.125342	Y
5	IC 140-87130/5	400.0	440.837985	100.0	7006215.0	1.102095	Y
6	IC 140-87130/6	2000.0	2312.414809	100.0	7440630.0	1.156207	Y



Calibration

/ PCB-189

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

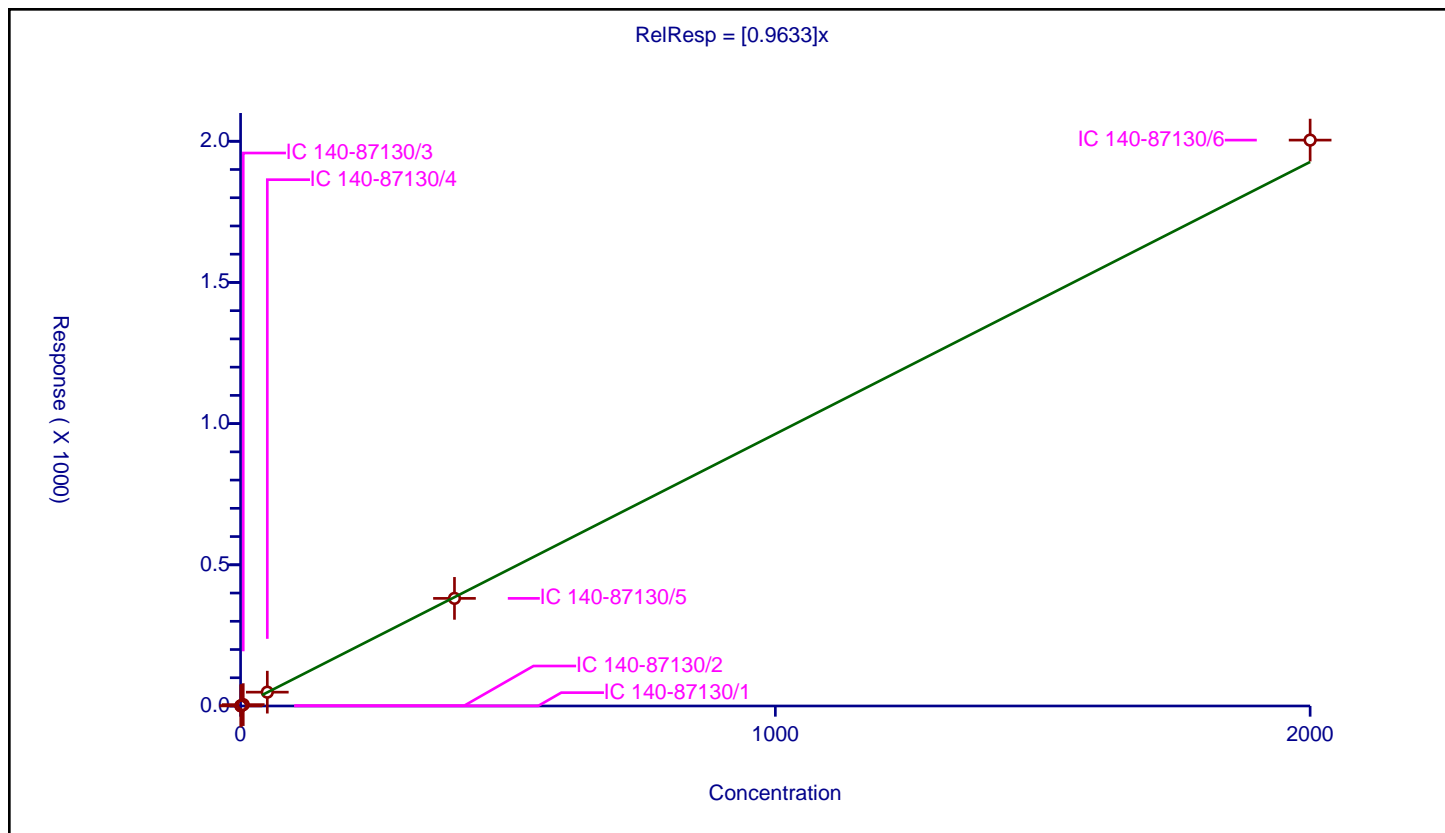
Curve Coefficients

Intercept: 0
Slope: 0.9633

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.468643	100.0	11329298.0	0.937287	Y
2	IC 140-87130/2	1.0	0.945522	100.0	10353644.0	0.945522	Y
3	IC 140-87130/3	5.0	4.818192	100.0	10235768.0	0.963638	Y
4	IC 140-87130/4	50.0	48.940921	100.0	10070777.0	0.978818	Y
5	IC 140-87130/5	400.0	381.078351	100.0	10502203.0	0.952696	Y
6	IC 140-87130/6	2000.0	2004.065707	100.0	11047526.0	1.002033	Y



Calibration

/ PCB-19

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

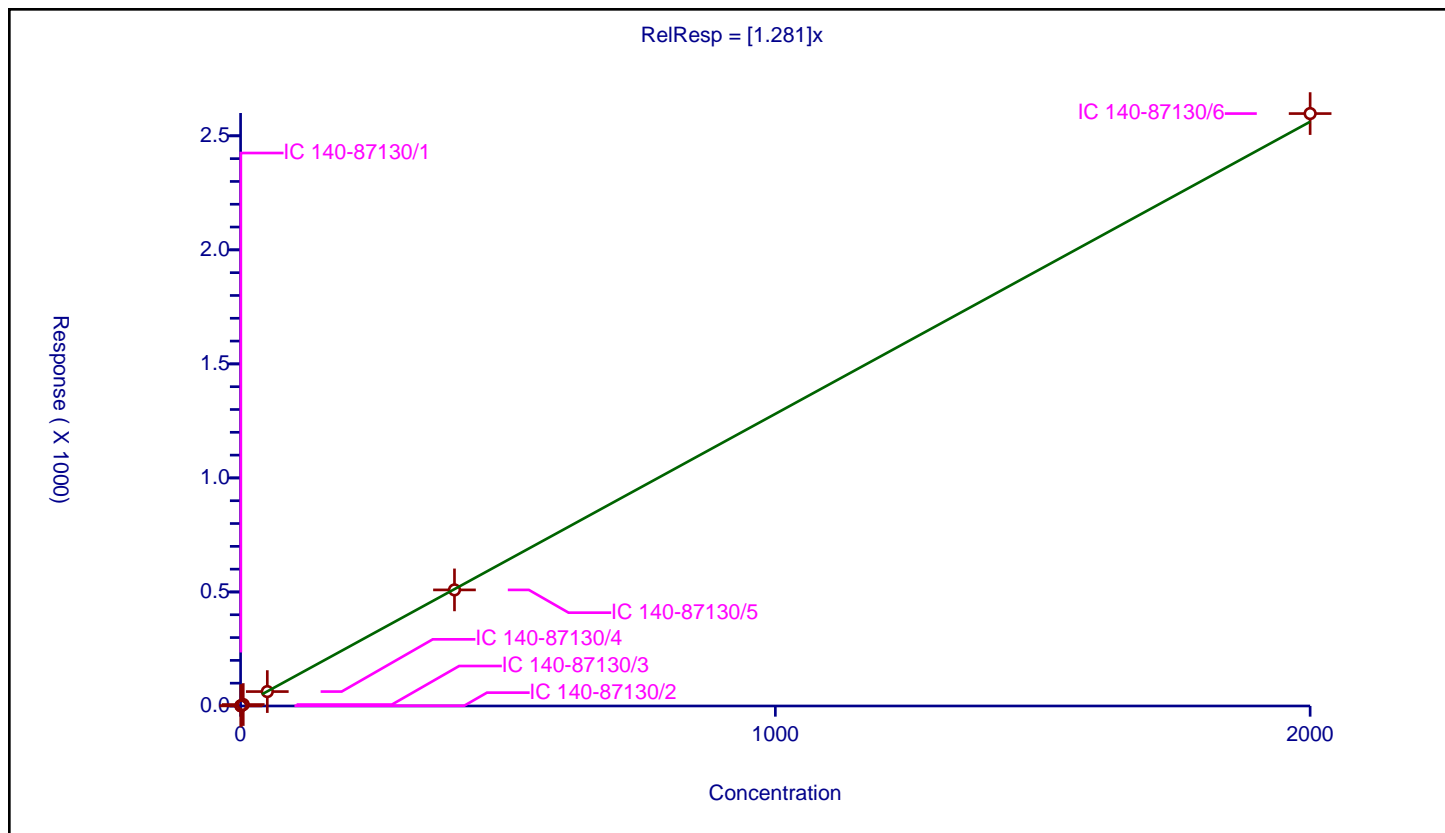
Curve Coefficients

Intercept: 0
 Slope: 1.281

Error Coefficients

Relative Standard Deviation: 9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.734093	100.0	3711790.0	1.468187	Y
2	IC 140-87130/2	1.0	1.107786	100.0	3424036.0	1.107786	Y
3	IC 140-87130/3	5.0	6.371947	100.0	3389482.0	1.274389	Y
4	IC 140-87130/4	50.0	63.176031	100.0	3406868.0	1.263521	Y
5	IC 140-87130/5	400.0	509.085164	100.0	3537933.0	1.272713	Y
6	IC 140-87130/6	2000.0	2597.600235	100.0	3634856.0	1.2988	Y



Calibration

/ PCB-190

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

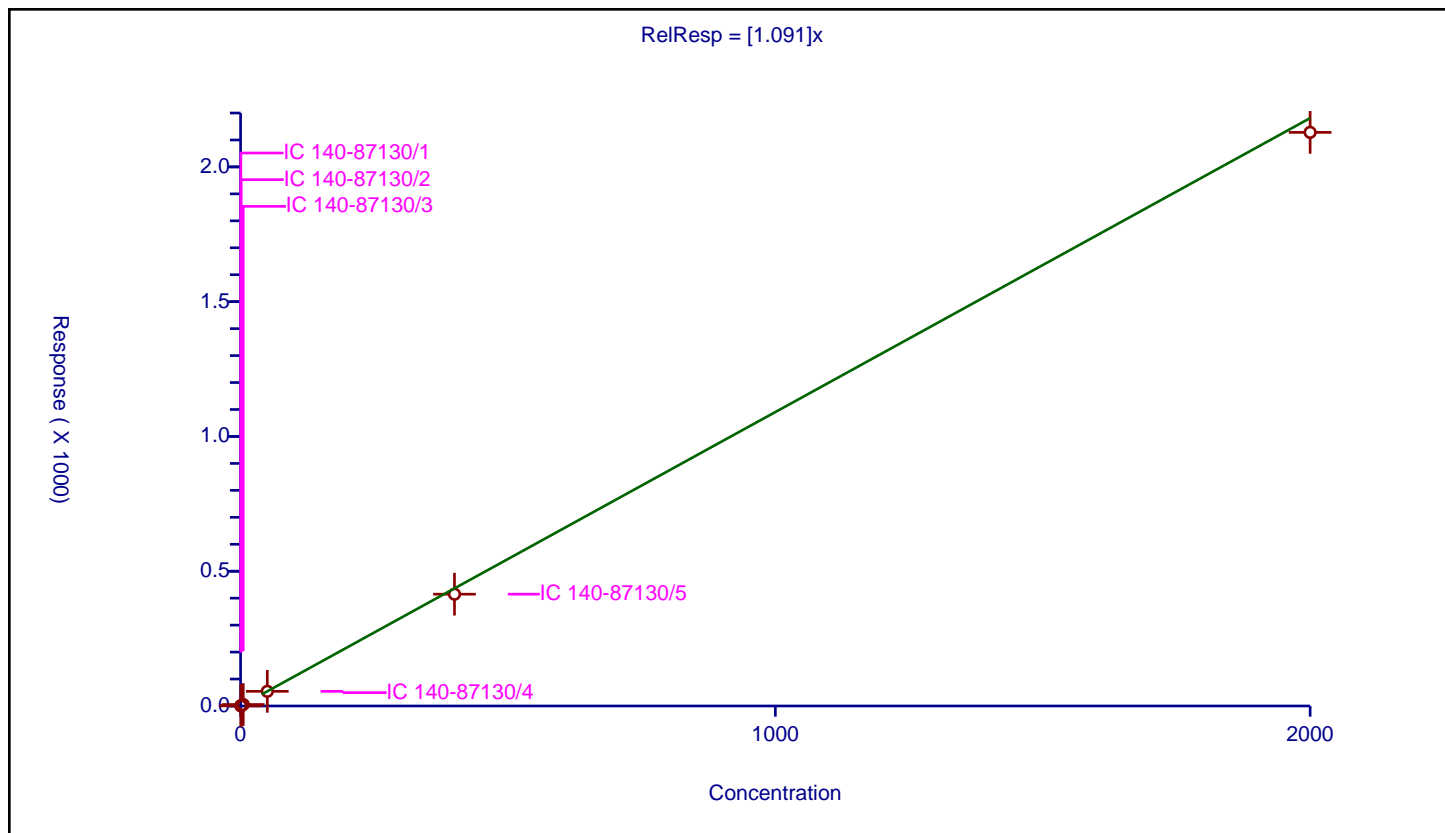
Curve Coefficients

Intercept: 0
 Slope: 1.091

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563751	100.0	7116082.0	1.127502	Y
2	IC 140-87130/2	1.0	1.132585	100.0	6585200.0	1.132585	Y
3	IC 140-87130/3	5.0	5.472809	100.0	6664037.0	1.094562	Y
4	IC 140-87130/4	50.0	54.377261	100.0	6587579.0	1.087545	Y
5	IC 140-87130/5	400.0	414.827564	100.0	7006215.0	1.037069	Y
6	IC 140-87130/6	2000.0	2128.212598	100.0	7440630.0	1.064106	Y



Calibration

/ PCB-191

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

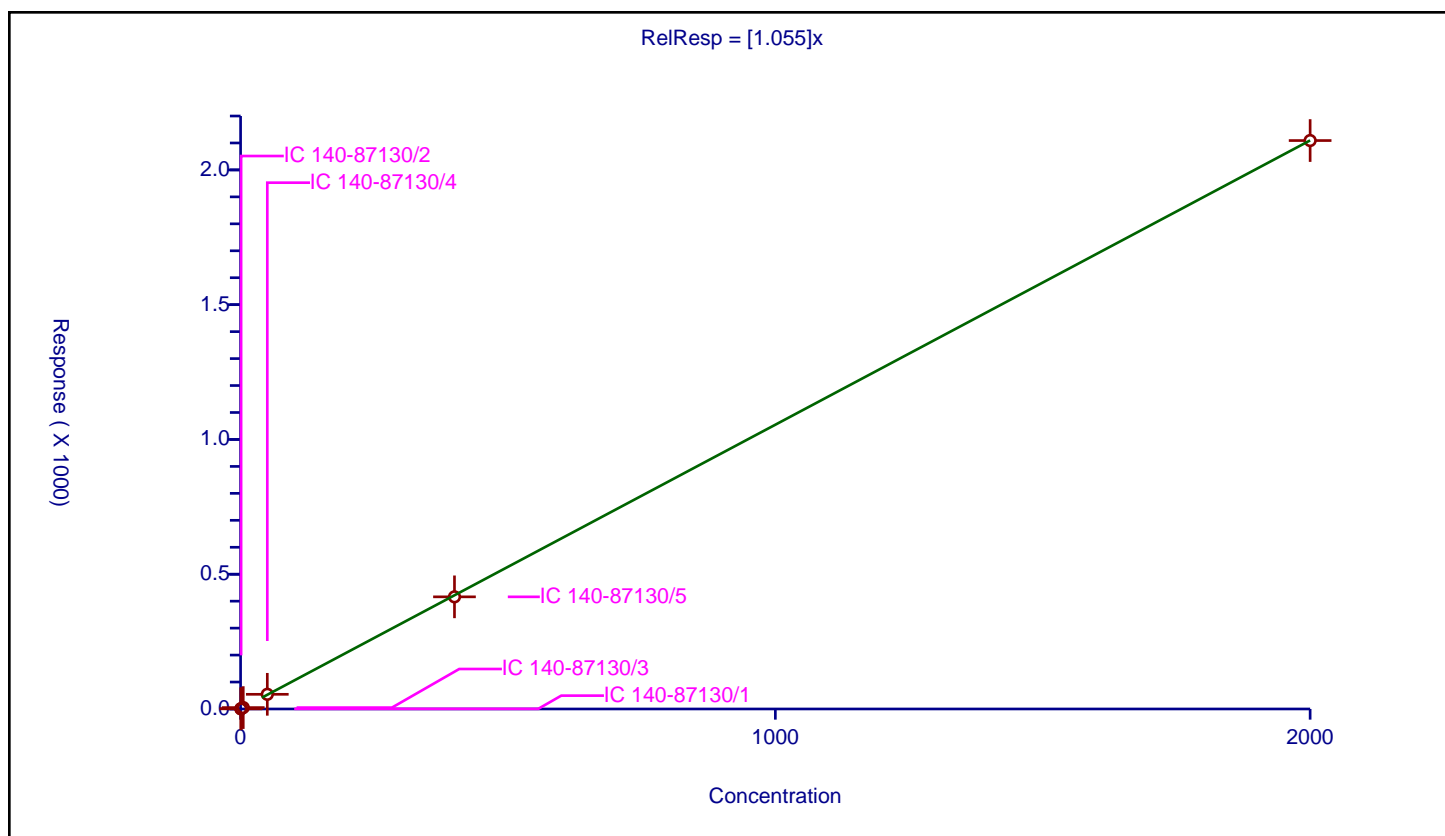
Curve Coefficients

Intercept: 0
 Slope: 1.055

Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.494977	100.0	7116082.0	0.989955	Y
2	IC 140-87130/2	1.0	1.108121	100.0	6585200.0	1.108121	Y
3	IC 140-87130/3	5.0	5.228152	100.0	6664037.0	1.04563	Y
4	IC 140-87130/4	50.0	54.504819	100.0	6587579.0	1.090096	Y
5	IC 140-87130/5	400.0	416.049764	100.0	7006215.0	1.040124	Y
6	IC 140-87130/6	2000.0	2108.943127	100.0	7440630.0	1.054472	Y



Calibration

/ PCB-192

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

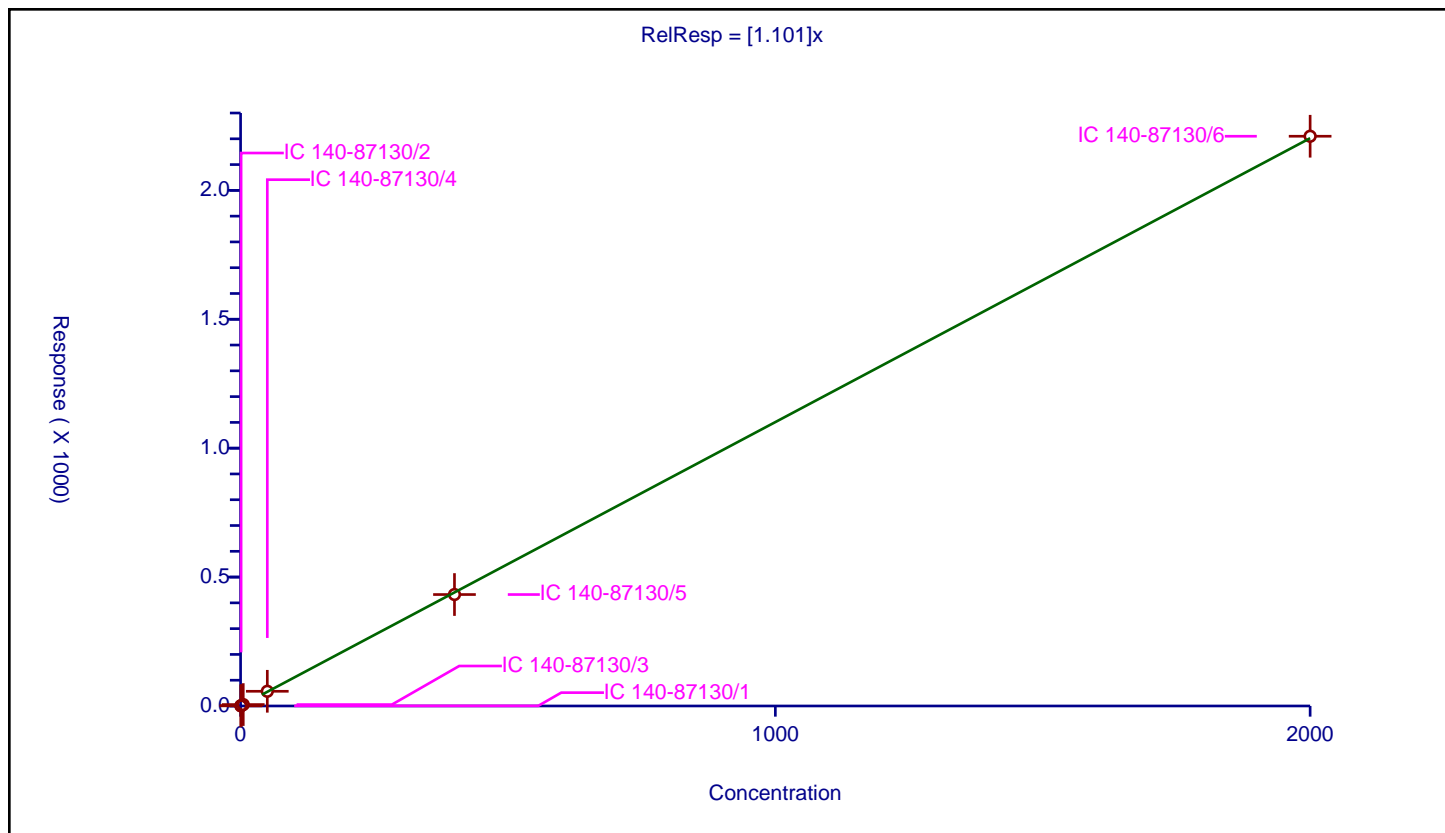
Curve Coefficients

Intercept: 0
 Slope: 1.101

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.520286	100.0	7116082.0	1.040573	Y
2	IC 140-87130/2	1.0	1.140785	100.0	6585200.0	1.140785	Y
3	IC 140-87130/3	5.0	5.494882	100.0	6664037.0	1.098976	Y
4	IC 140-87130/4	50.0	57.04891	100.0	6587579.0	1.140978	Y
5	IC 140-87130/5	400.0	432.344697	100.0	7006215.0	1.080862	Y
6	IC 140-87130/6	2000.0	2209.879217	100.0	7440630.0	1.10494	Y



Calibration

/ PCB-193

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

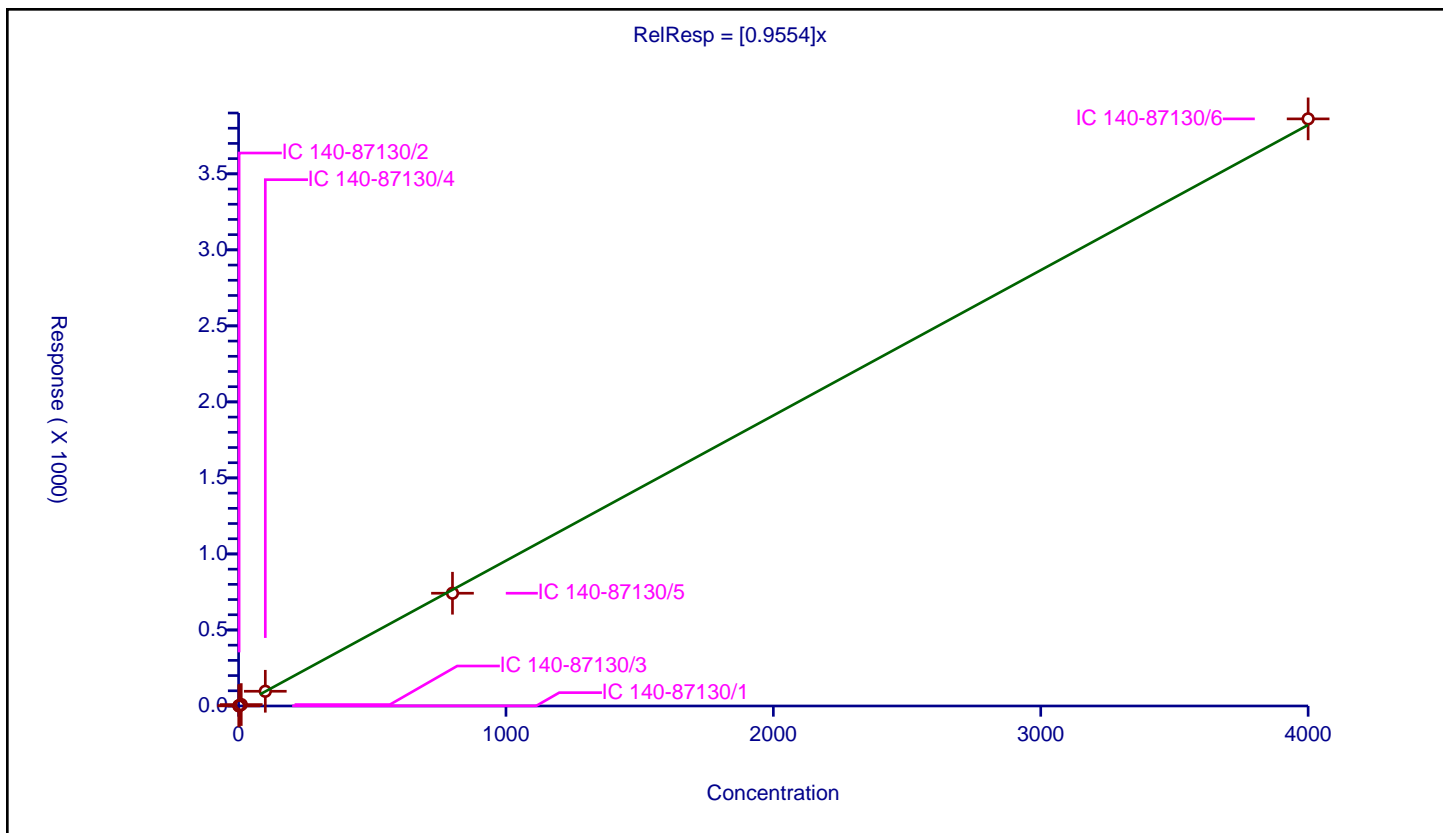
Curve Coefficients

Intercept: 0
 Slope: 0.9554

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



Calibration

/ PCB-194

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

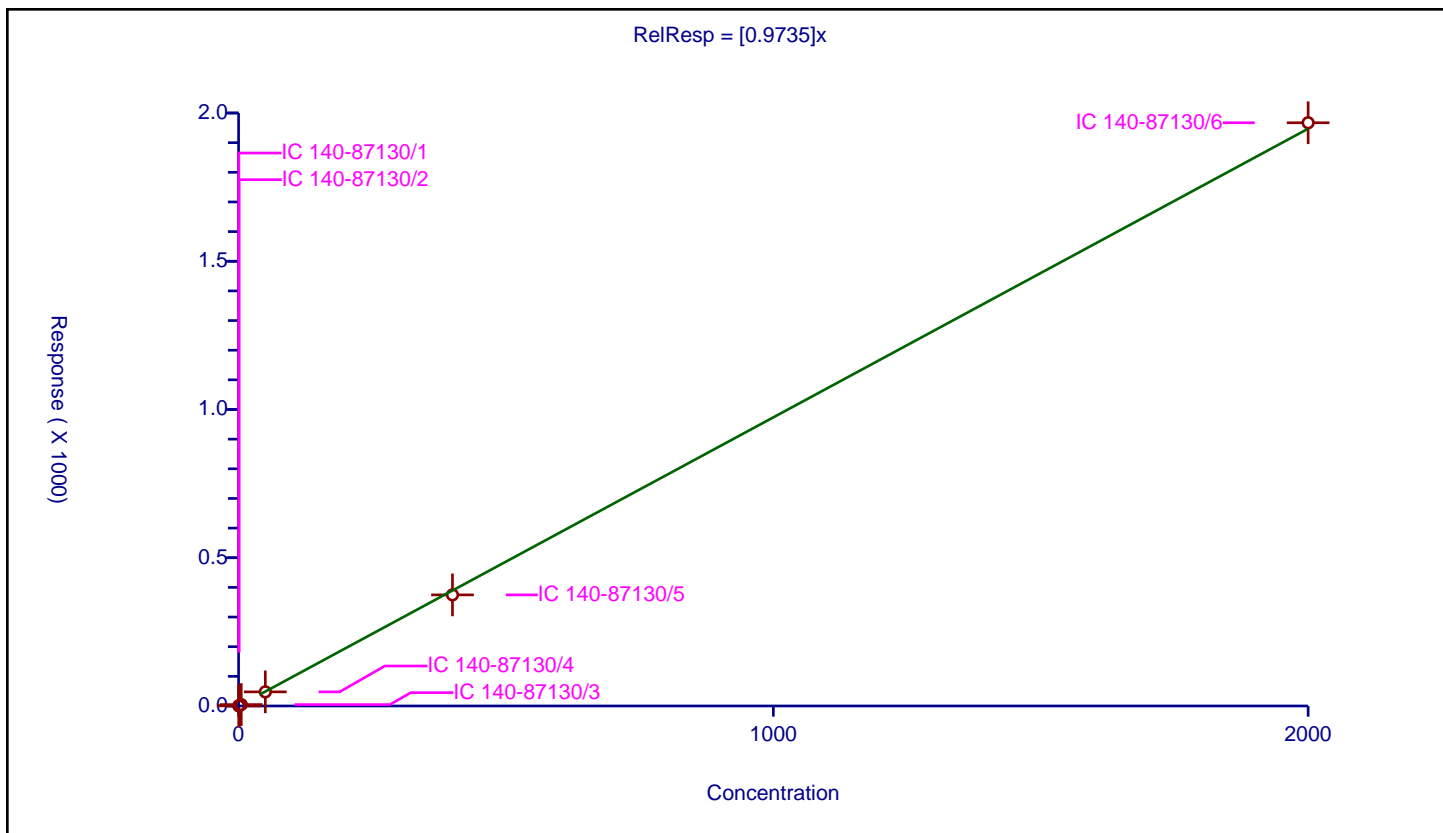
Curve Coefficients

Intercept: 0
 Slope: 0.9735

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.516466	100.0	9259085.0	1.032931	Y
2	IC 140-87130/2	1.0	0.999097	100.0	8466946.0	0.999097	Y
3	IC 140-87130/3	5.0	4.68423	100.0	8416261.0	0.936846	Y
4	IC 140-87130/4	50.0	47.585287	100.0	8337493.0	0.951706	Y
5	IC 140-87130/5	400.0	374.752675	100.0	8638618.0	0.936882	Y
6	IC 140-87130/6	2000.0	1967.154527	100.0	8823289.0	0.983577	Y



Calibration

/ PCB-195

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

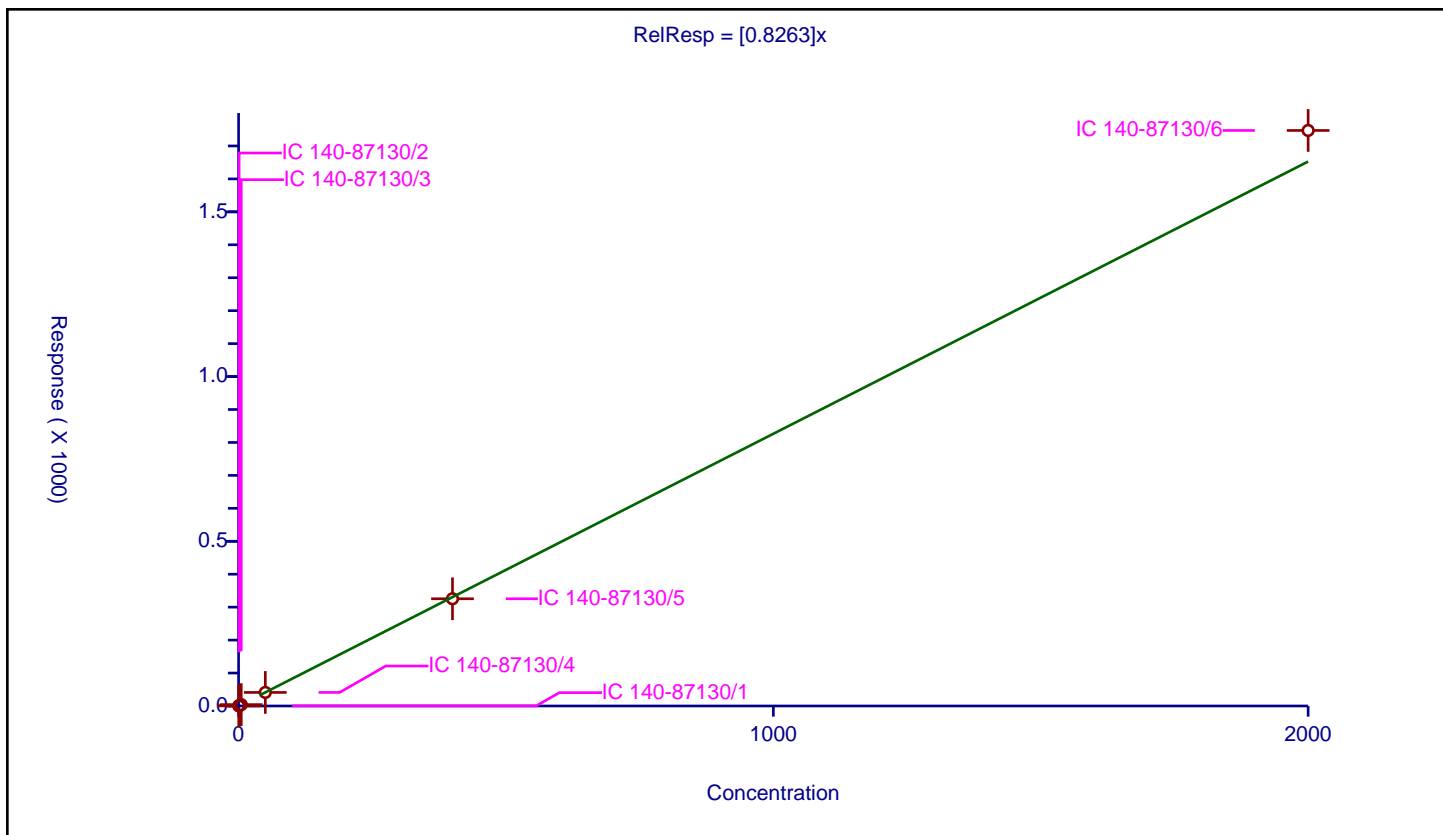
Curve Coefficients

Intercept: 0
Slope: 0.8263

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.37022	100.0	9259085.0	0.74044	Y
2	IC 140-87130/2	1.0	0.879514	100.0	8466946.0	0.879514	Y
3	IC 140-87130/3	5.0	4.137823	100.0	8416261.0	0.827565	Y
4	IC 140-87130/4	50.0	41.162817	100.0	8337493.0	0.823256	Y
5	IC 140-87130/5	400.0	325.456769	100.0	8638618.0	0.813642	Y
6	IC 140-87130/6	2000.0	1747.0565	100.0	8823289.0	0.873528	Y



Calibration

/ PCB-196

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

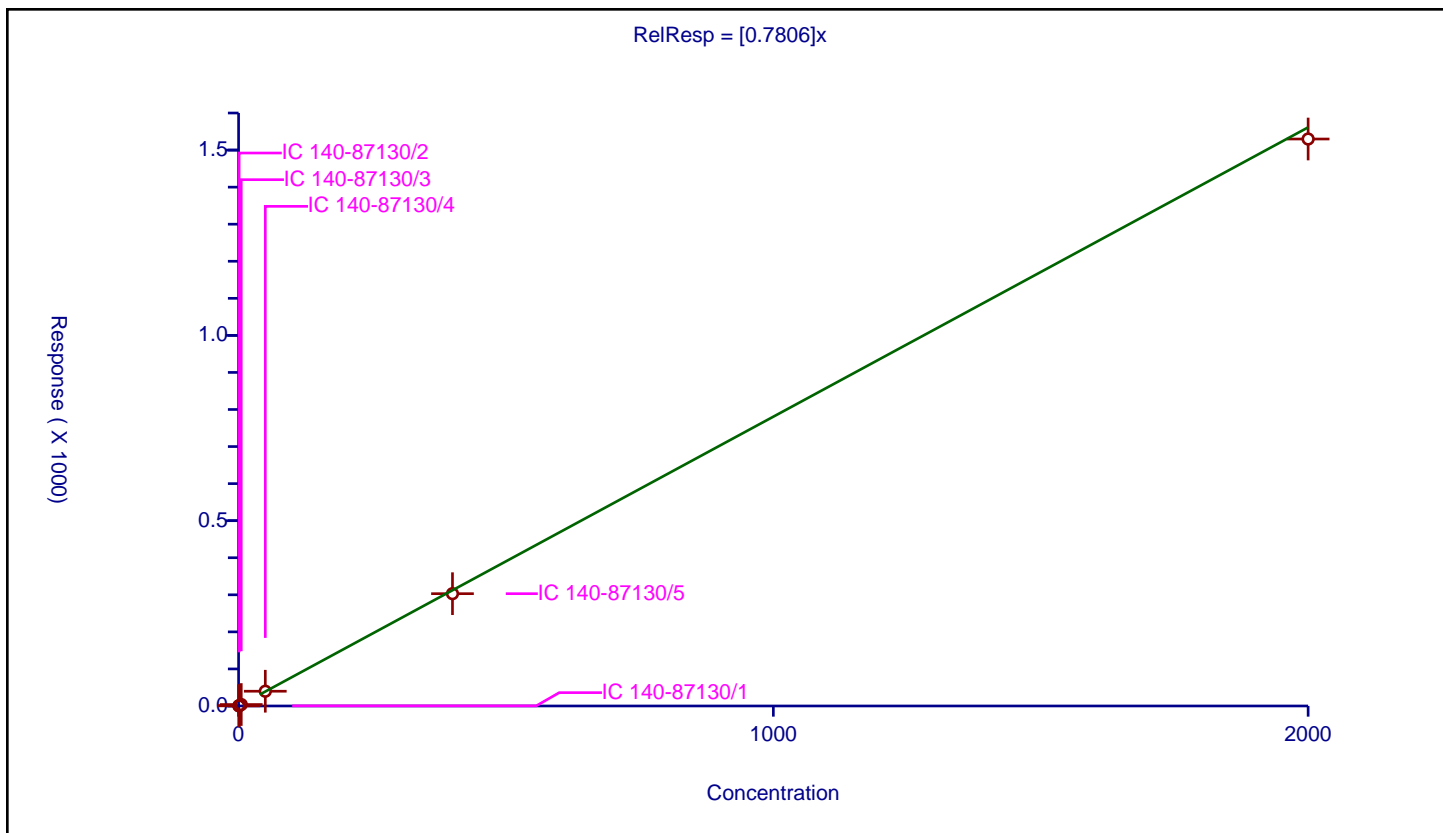
Curve Coefficients

Intercept: 0
 Slope: 0.7806

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387234	100.0	5622444.0	0.774467	Y
2	IC 140-87130/2	1.0	0.808707	100.0	5103331.0	0.808707	Y
3	IC 140-87130/3	5.0	3.909539	100.0	5089577.0	0.781908	Y
4	IC 140-87130/4	50.0	39.809999	100.0	4754288.0	0.7962	Y
5	IC 140-87130/5	400.0	303.052393	100.0	5079458.0	0.757631	Y
6	IC 140-87130/6	2000.0	1529.853253	100.0	5299657.0	0.764927	Y



Calibration

/ PCB-197

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

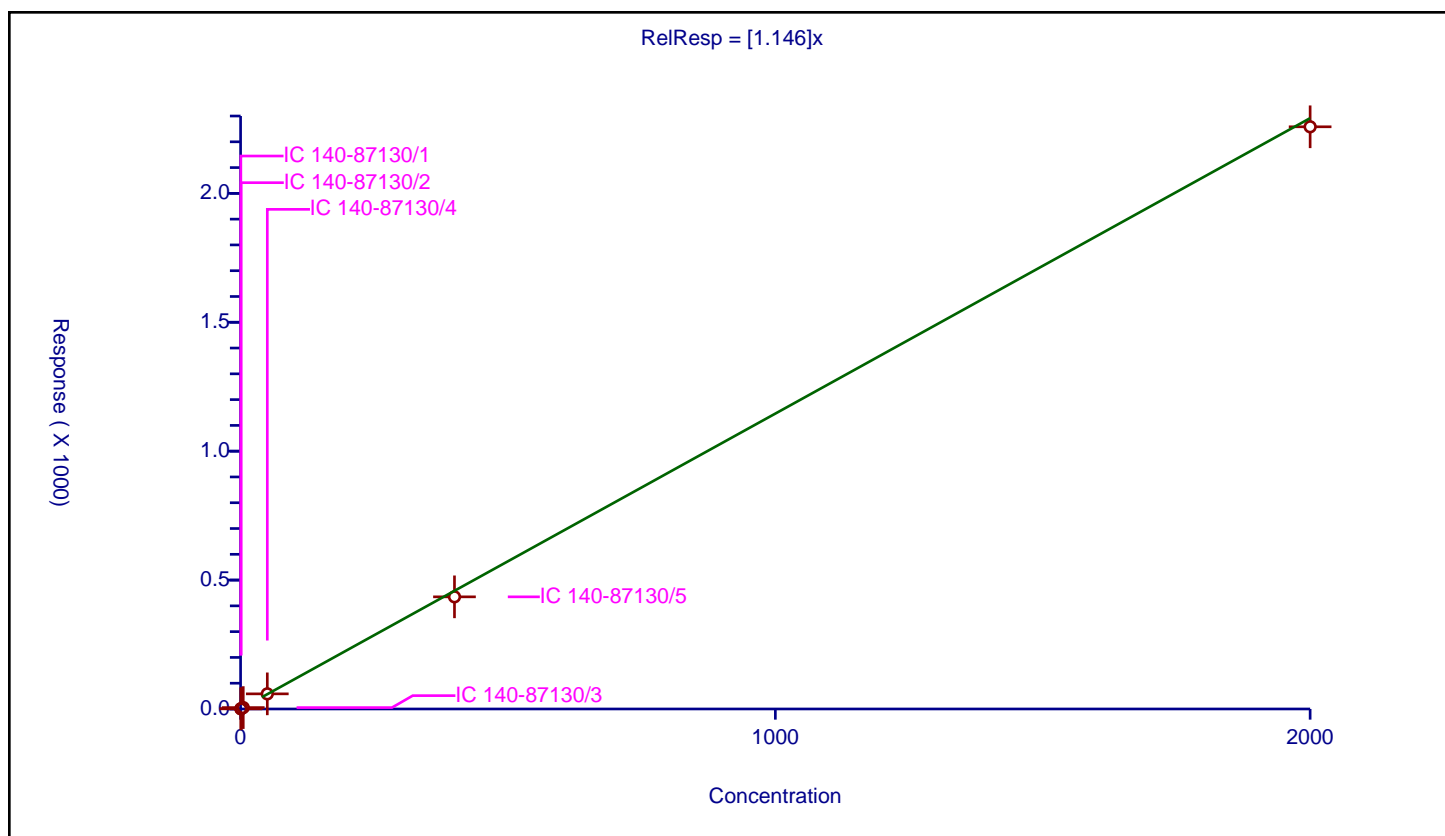
Curve Coefficients

Intercept: 0
Slope: 1.146

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.614466	100.0	5622444.0	1.228932	Y
2	IC 140-87130/2	1.0	1.162123	100.0	5103331.0	1.162123	Y
3	IC 140-87130/3	5.0	5.464973	100.0	5089577.0	1.092995	Y
4	IC 140-87130/4	50.0	58.70349	100.0	4754288.0	1.17407	Y
5	IC 140-87130/5	400.0	434.995171	100.0	5079458.0	1.087488	Y
6	IC 140-87130/6	2000.0	2258.215975	100.0	5299657.0	1.129108	Y



Calibration

/ PCB-198

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

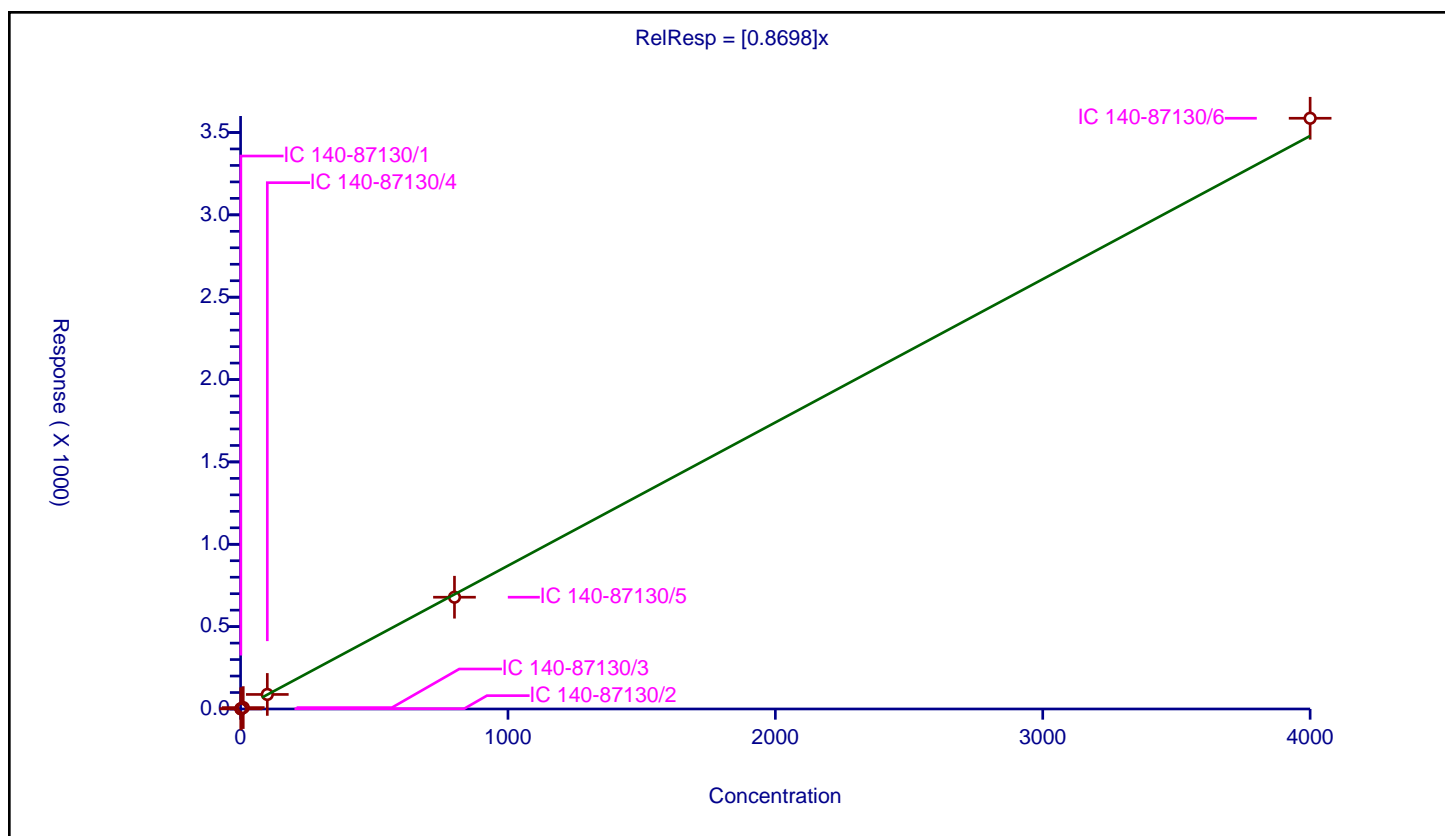
Curve Coefficients

Intercept: 0
Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-198/199

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

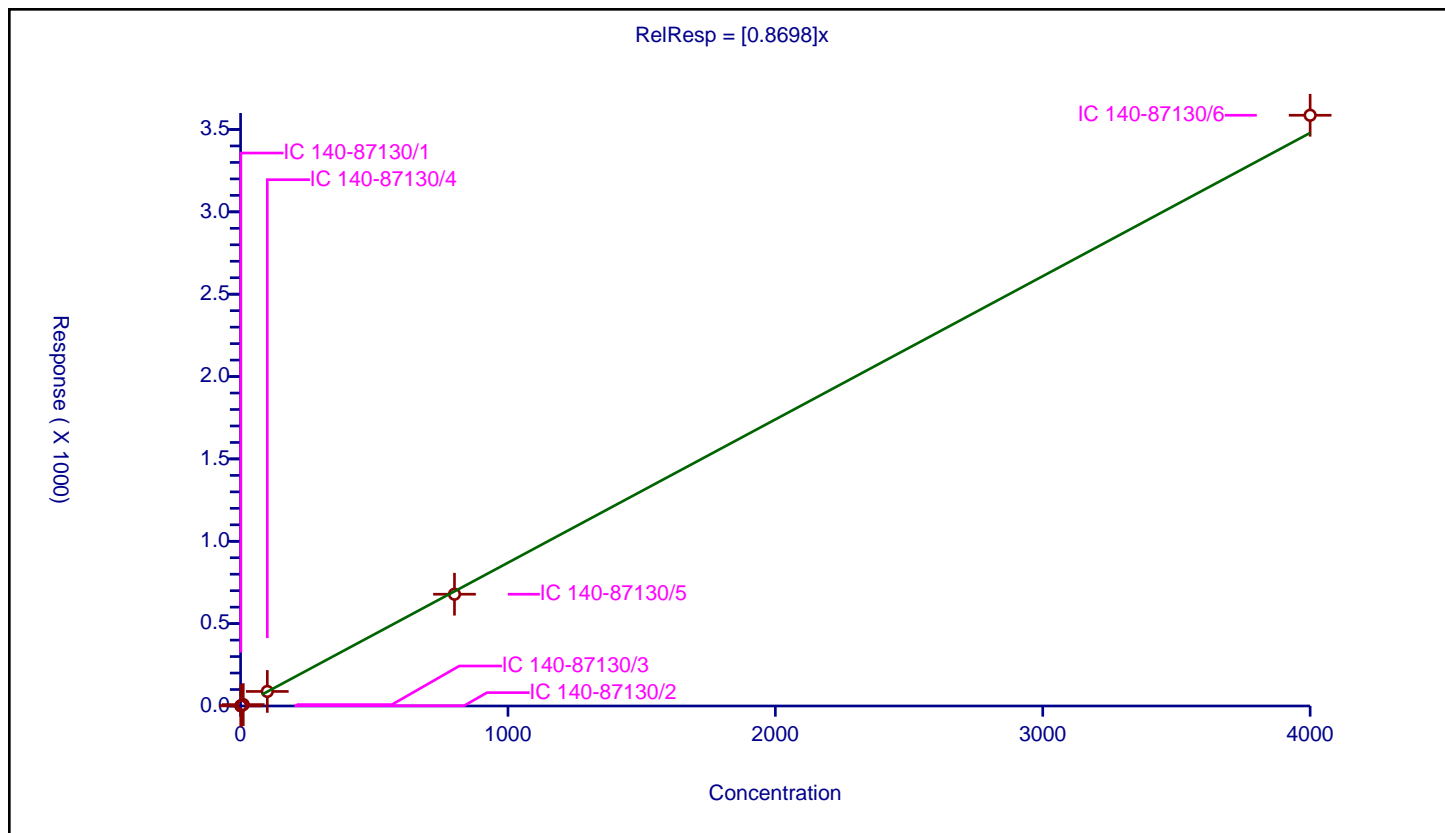
Curve Coefficients

Intercept: 0
 Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-199

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

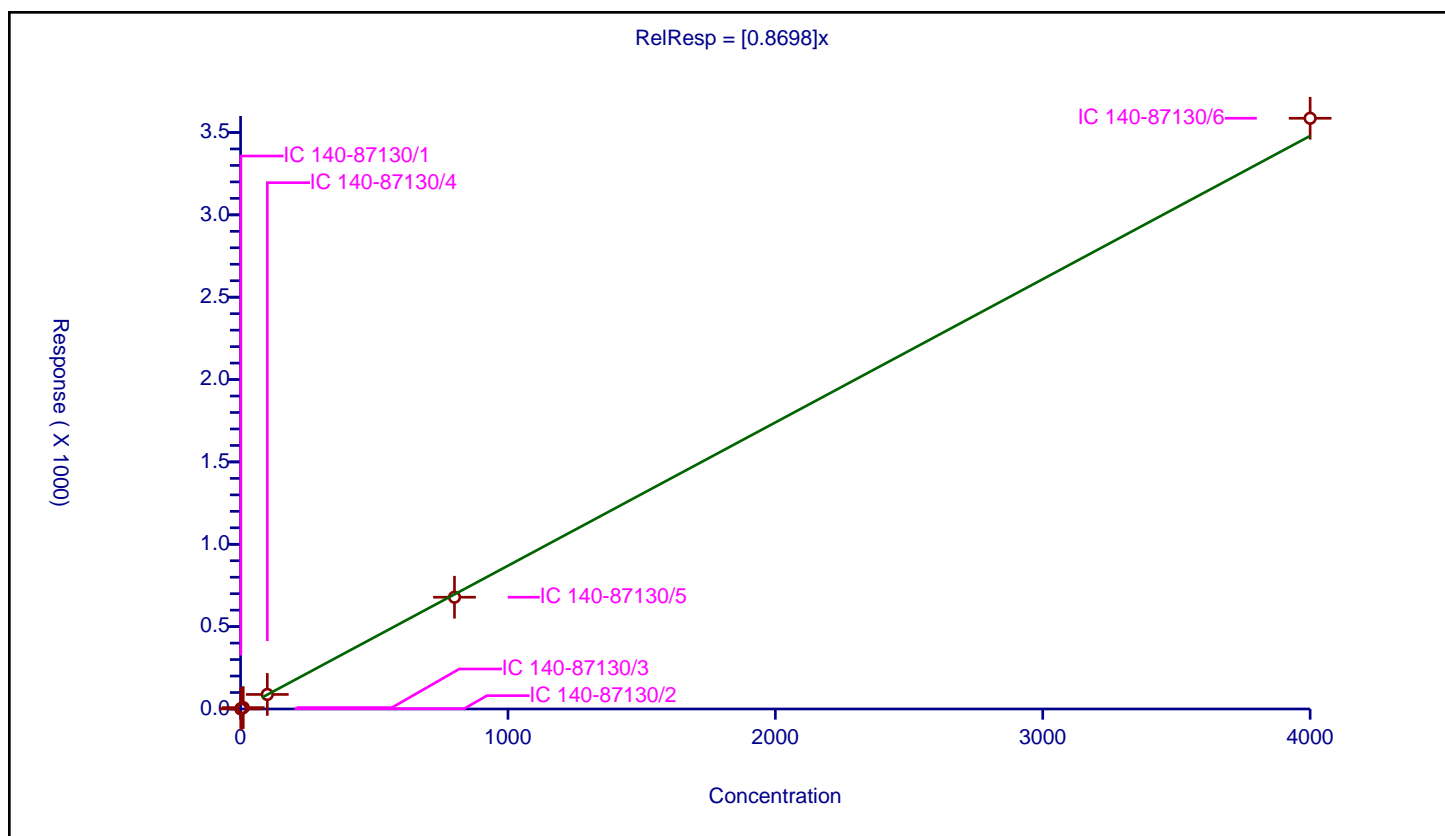
Curve Coefficients

Intercept: 0
Slope: 0.8698

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Calibration

/ PCB-2

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

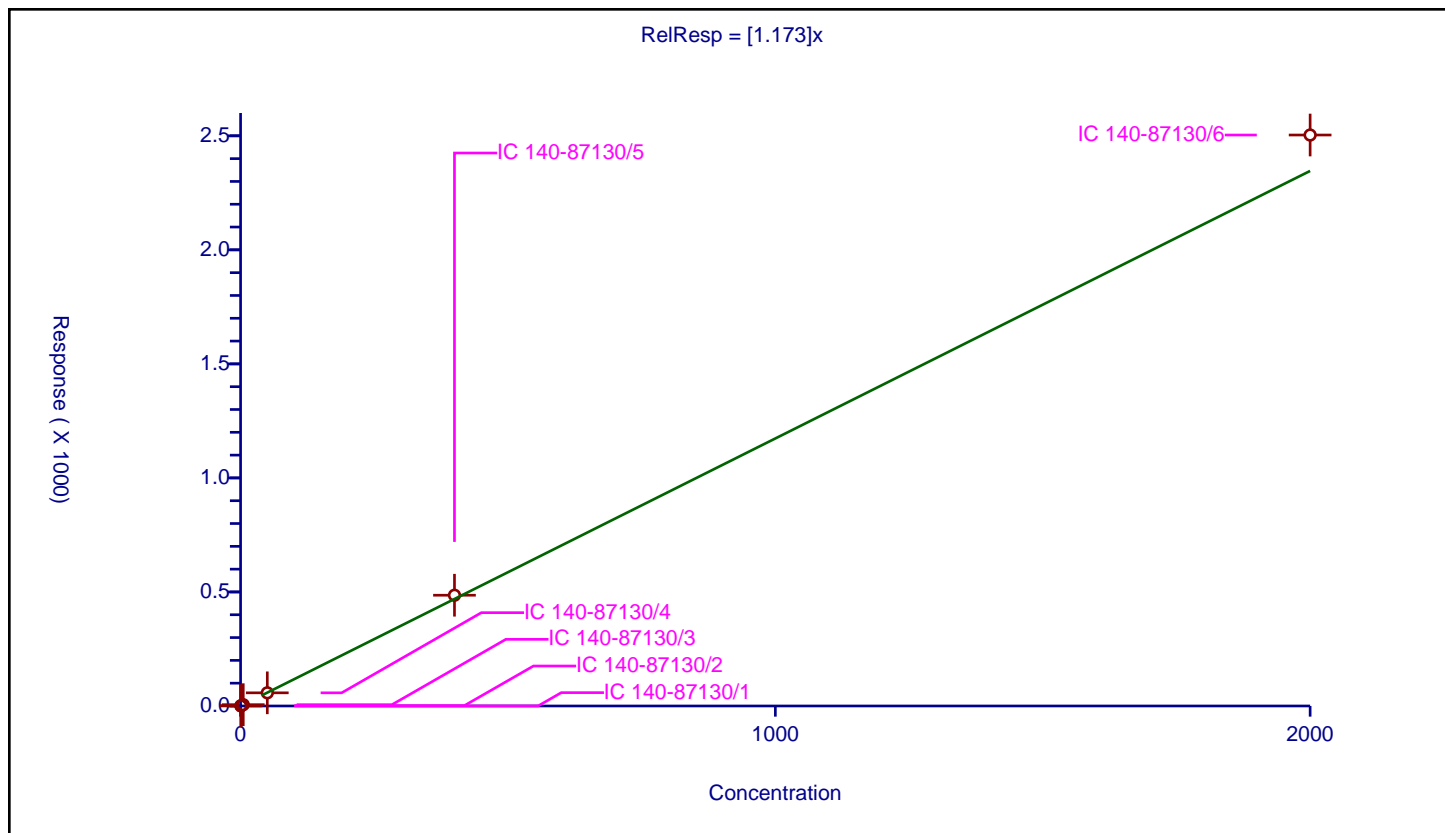
Curve Coefficients

Intercept: 0
Slope: 1.173

Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.56171	100.0	14676977.0	1.123419	Y
2	IC 140-87130/2	1.0	1.134341	100.0	13411930.0	1.134341	Y
3	IC 140-87130/3	5.0	5.797565	100.0	13253788.0	1.159513	Y
4	IC 140-87130/4	50.0	57.755063	100.0	13654287.0	1.155101	Y
5	IC 140-87130/5	400.0	485.642646	100.0	13820437.0	1.214107	Y
6	IC 140-87130/6	2000.0	2503.512907	100.0	14103562.0	1.251756	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

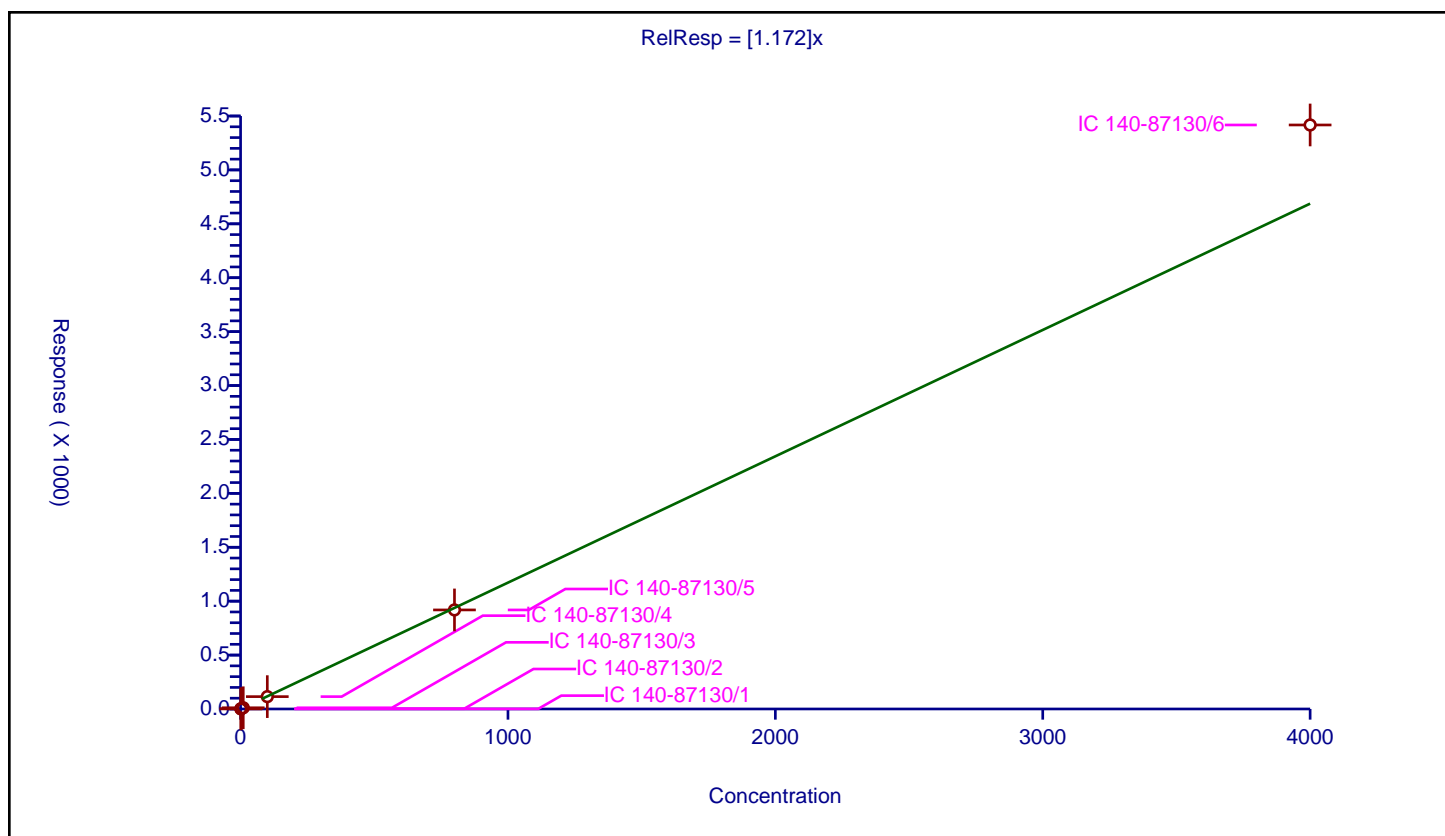
Curve Coefficients

Intercept: 0
Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-20/28

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

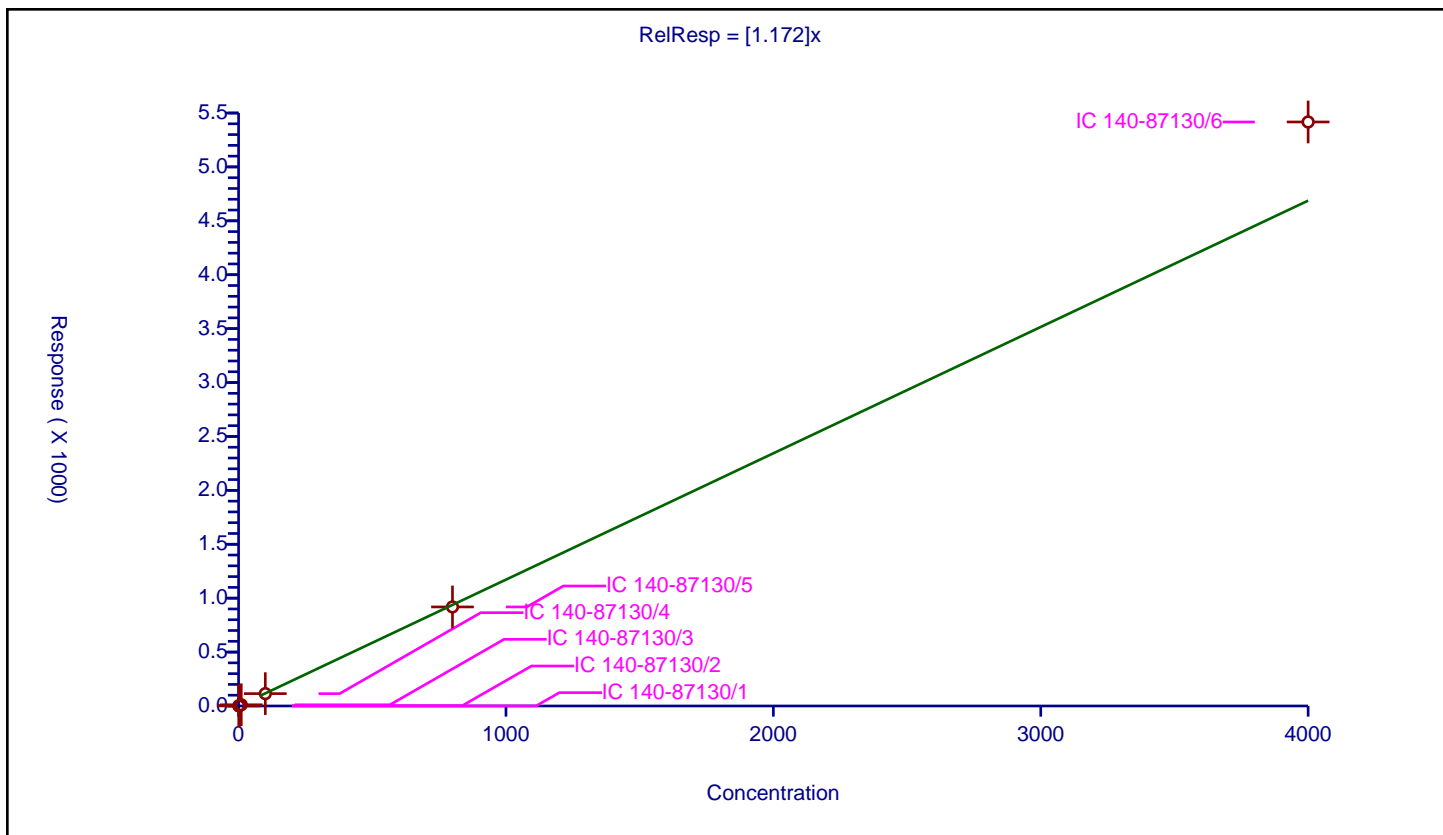
Curve Coefficients

Intercept: 0
 Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-200

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

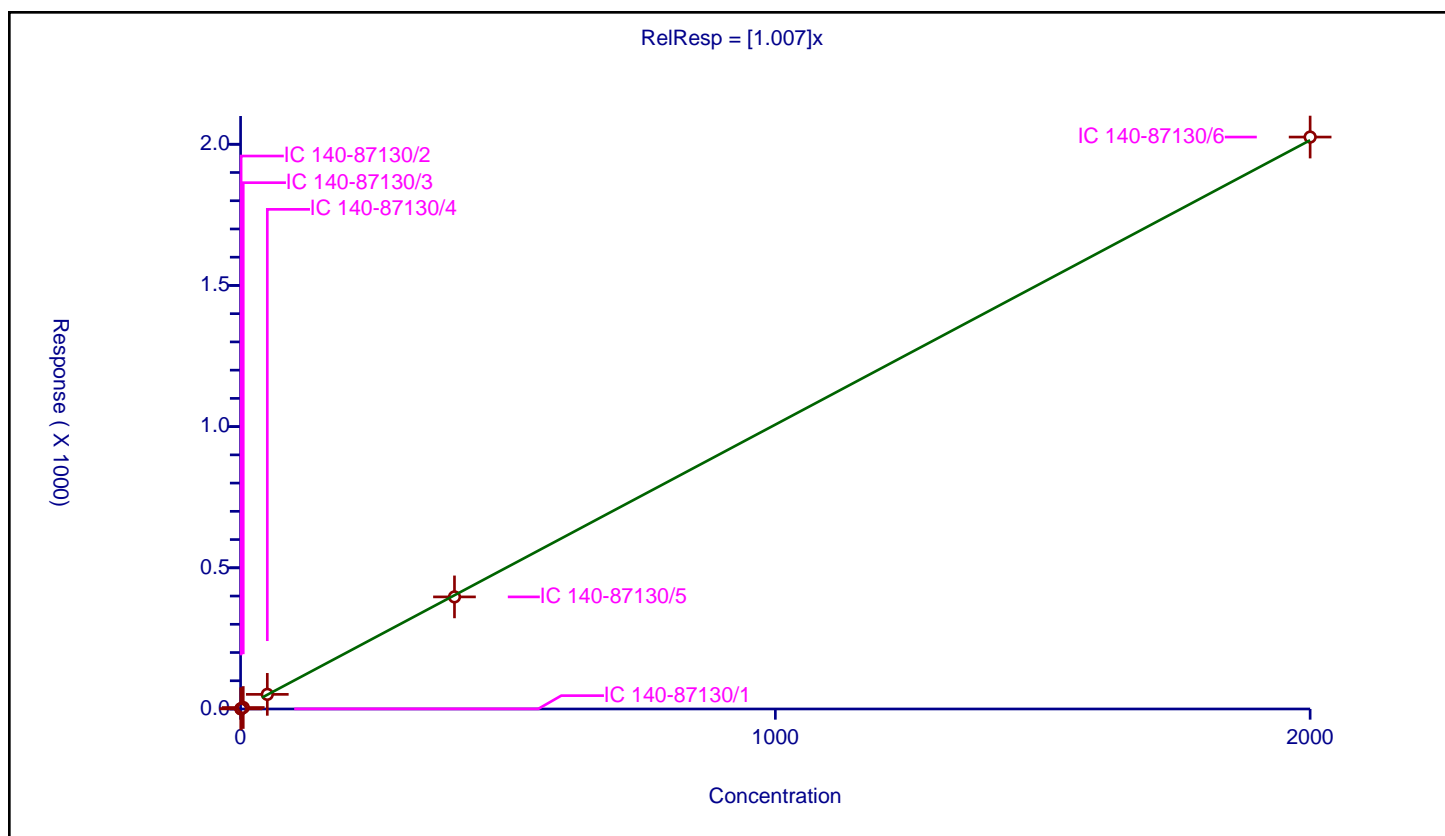
Curve Coefficients

Intercept: 0
Slope: 1.007

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.461383	100.0	5622444.0	0.922766	Y
2	IC 140-87130/2	1.0	1.039615	100.0	5103331.0	1.039615	Y
3	IC 140-87130/3	5.0	5.200629	100.0	5089577.0	1.040126	Y
4	IC 140-87130/4	50.0	51.768362	100.0	4754288.0	1.035367	Y
5	IC 140-87130/5	400.0	396.964026	100.0	5079458.0	0.99241	Y
6	IC 140-87130/6	2000.0	2025.474158	100.0	5299657.0	1.012737	Y



Calibration

/ PCB-201

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

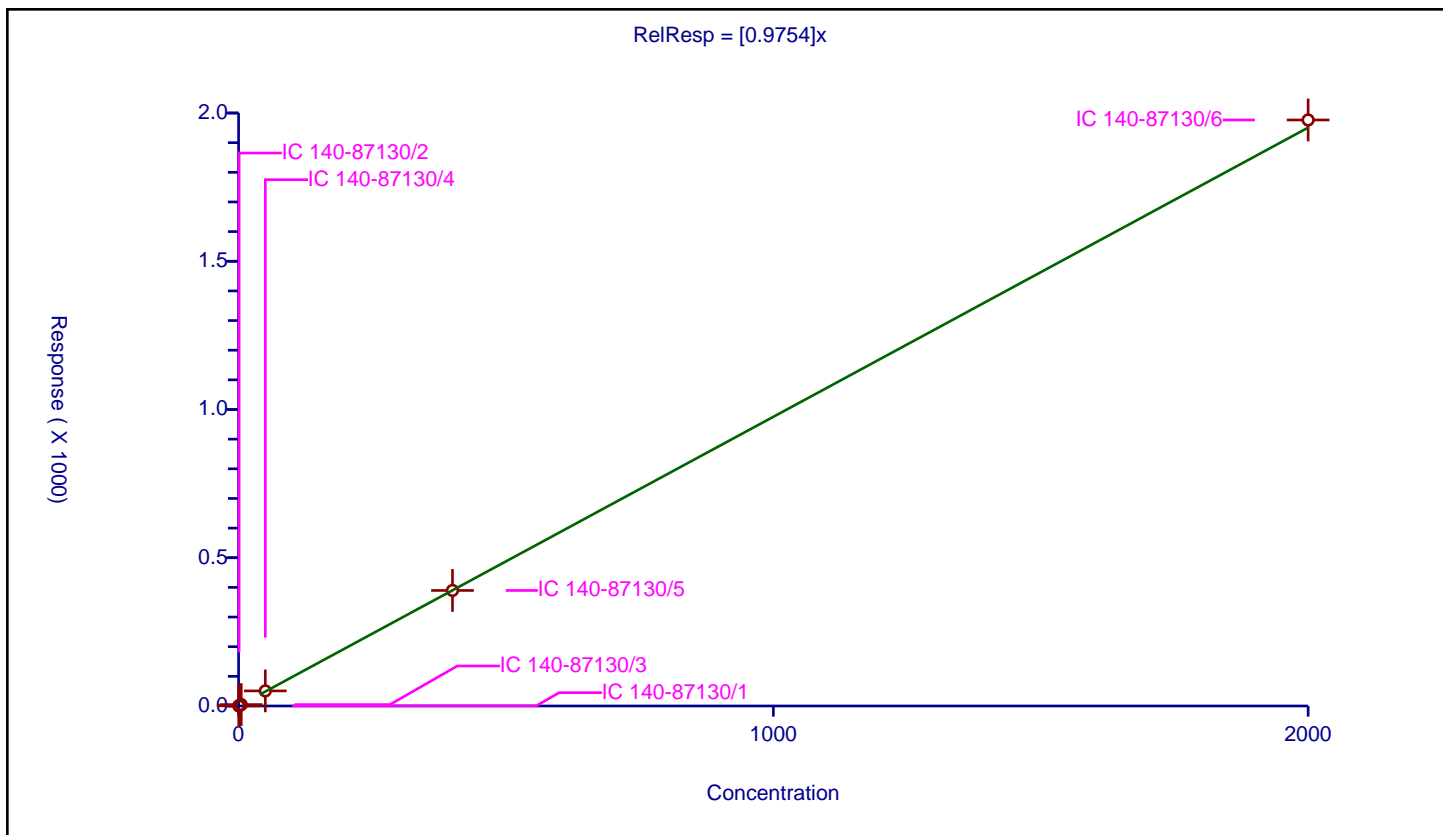
Curve Coefficients

Intercept: 0
 Slope: 0.9754

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.463571	100.0	5622444.0	0.927141	Y
2	IC 140-87130/2	1.0	0.993312	100.0	5103331.0	0.993312	Y
3	IC 140-87130/3	5.0	4.758627	100.0	5089577.0	0.951725	Y
4	IC 140-87130/4	50.0	50.882782	100.0	4754288.0	1.017656	Y
5	IC 140-87130/5	400.0	389.640312	100.0	5079458.0	0.974101	Y
6	IC 140-87130/6	2000.0	1976.55837	100.0	5299657.0	0.988279	Y



Calibration

/ PCB-202

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

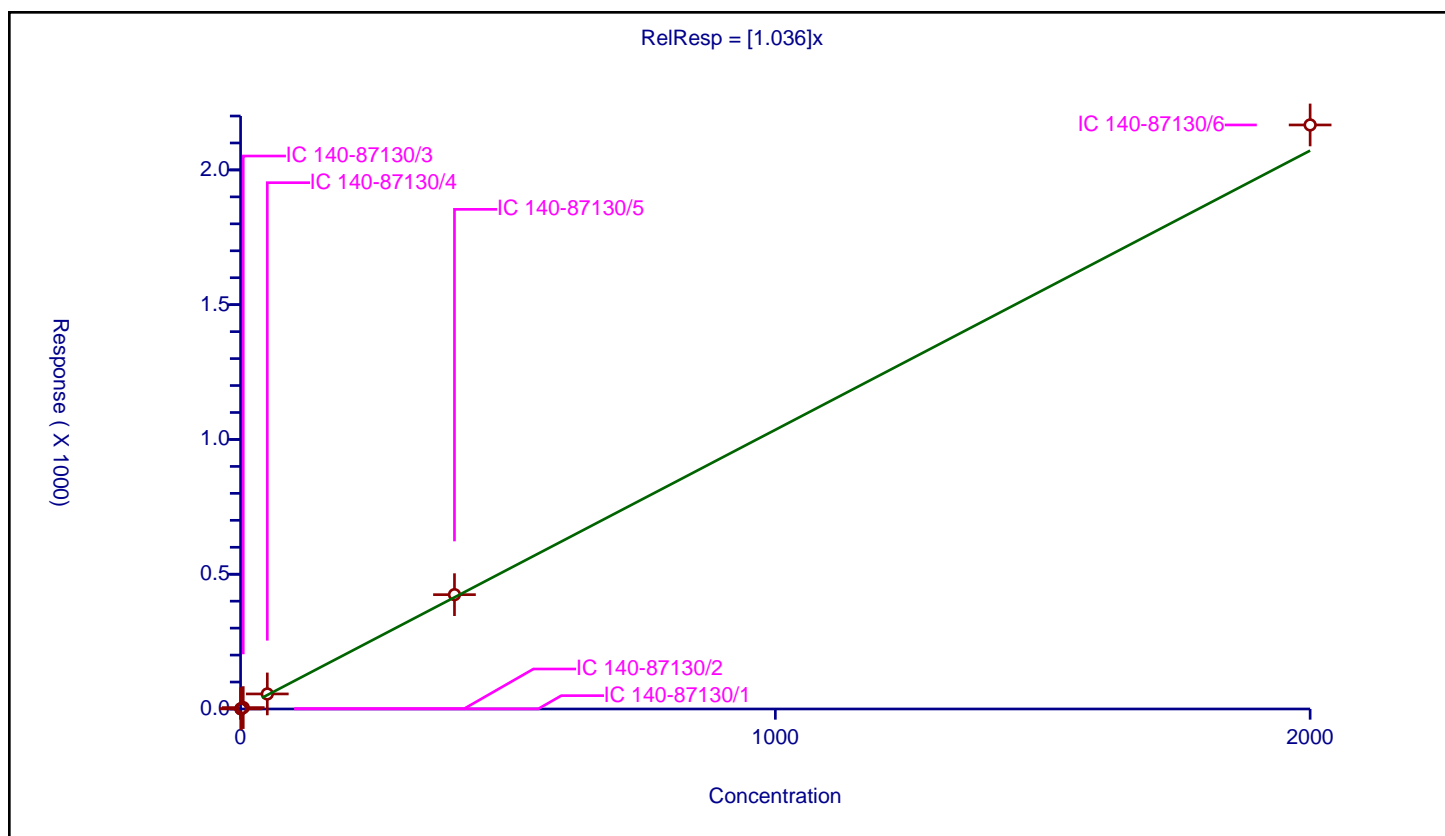
Curve Coefficients

Intercept: 0
Slope: 1.036

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.457346	100.0	5622444.0	0.914691	Y
2	IC 140-87130/2	1.0	1.000699	100.0	5103331.0	1.000699	Y
3	IC 140-87130/3	5.0	5.196267	100.0	5089577.0	1.039253	Y
4	IC 140-87130/4	50.0	55.82857	100.0	4754288.0	1.116571	Y
5	IC 140-87130/5	400.0	424.203114	100.0	5079458.0	1.060508	Y
6	IC 140-87130/6	2000.0	2166.861082	100.0	5299657.0	1.083431	Y



Calibration

/ PCB-203

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

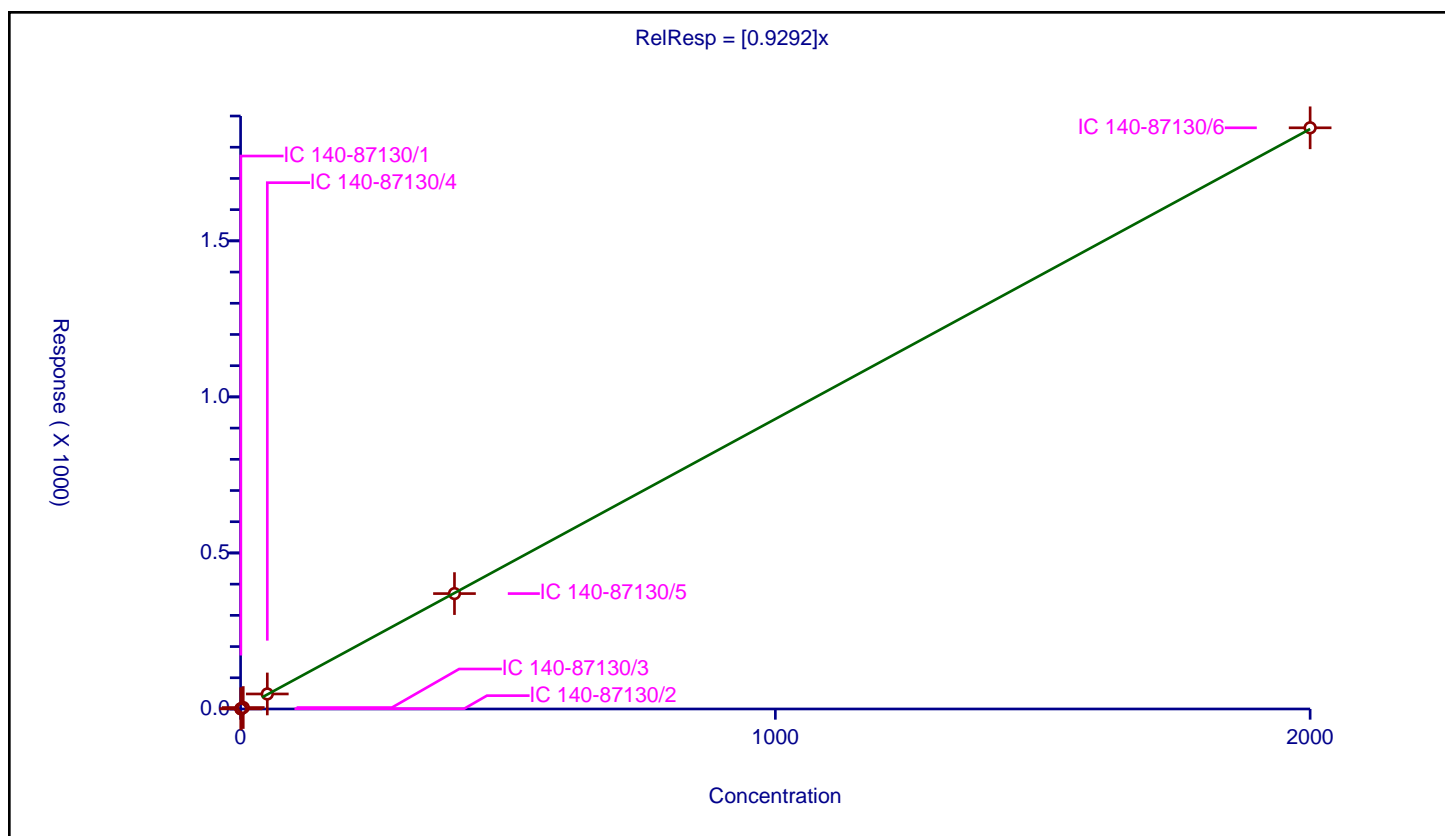
Curve Coefficients

Intercept: 0
Slope: 0.9292

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.472855	100.0	5622444.0	0.94571	Y
2	IC 140-87130/2	1.0	0.884246	100.0	5103331.0	0.884246	Y
3	IC 140-87130/3	5.0	4.633136	100.0	5089577.0	0.926627	Y
4	IC 140-87130/4	50.0	48.15821	100.0	4754288.0	0.963164	Y
5	IC 140-87130/5	400.0	369.761282	100.0	5079458.0	0.924403	Y
6	IC 140-87130/6	2000.0	1862.268577	100.0	5299657.0	0.931134	Y



Calibration

/ PCB-204

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

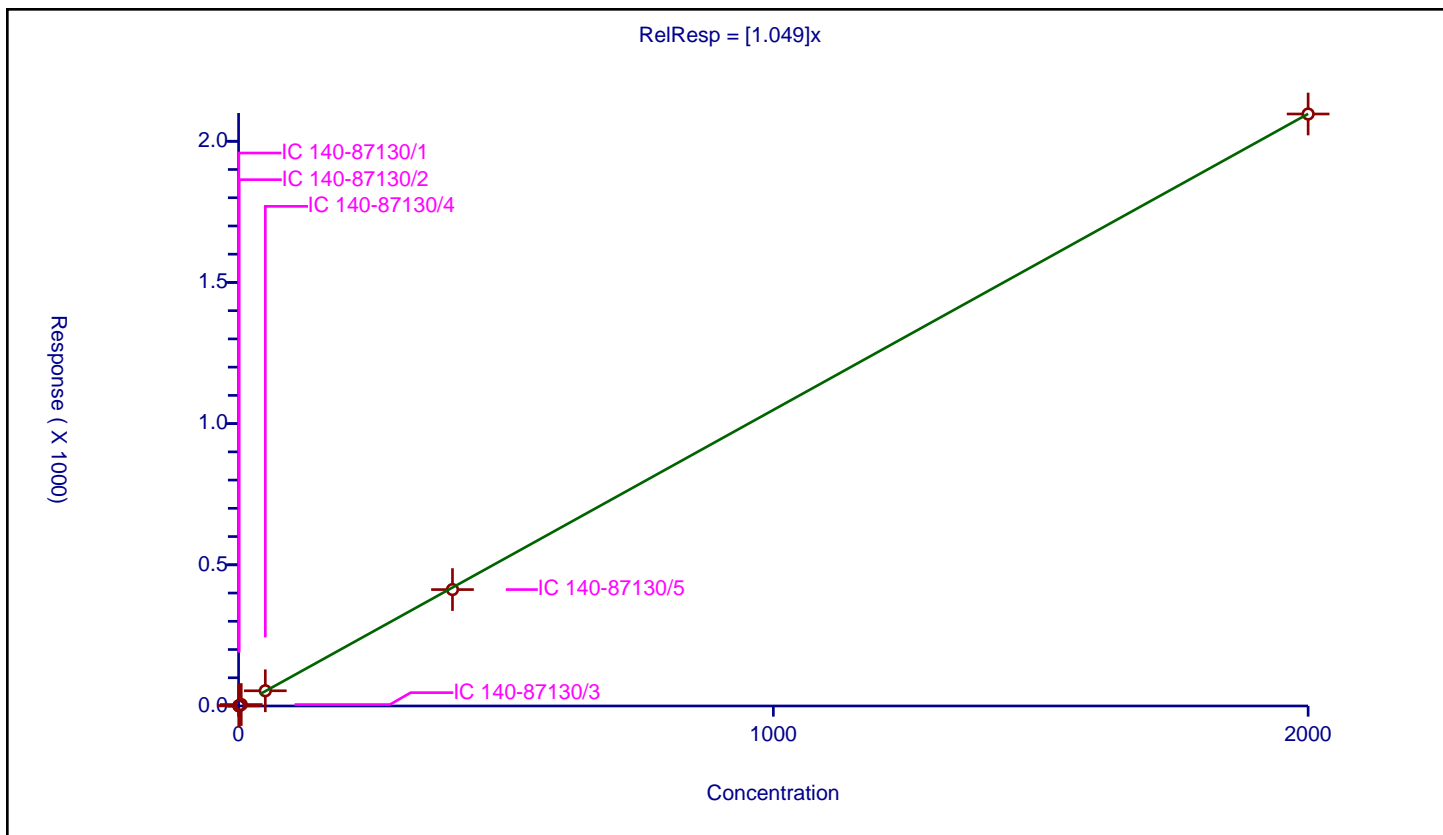
Curve Coefficients

Intercept: 0
 Slope: 1.049

Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.532491	100.0	5622444.0	1.064982	Y
2	IC 140-87130/2	1.0	1.048786	100.0	5103331.0	1.048786	Y
3	IC 140-87130/3	5.0	5.102251	100.0	5089577.0	1.02045	Y
4	IC 140-87130/4	50.0	53.899553	100.0	4754288.0	1.077991	Y
5	IC 140-87130/5	400.0	412.258414	100.0	5079458.0	1.030646	Y
6	IC 140-87130/6	2000.0	2096.551437	100.0	5299657.0	1.048276	Y



Calibration

/ PCB-205

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

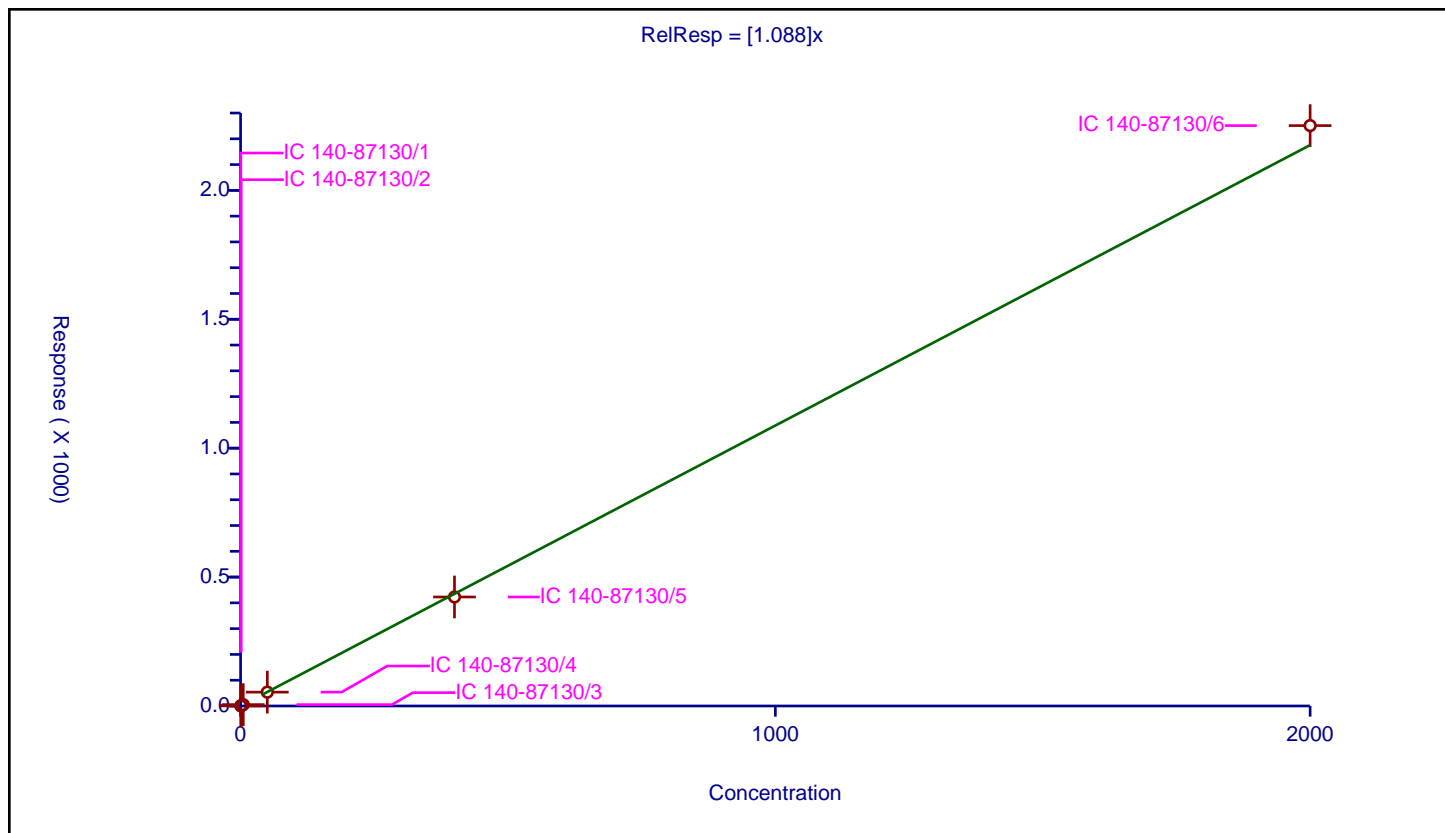
Curve Coefficients

Intercept: 0
Slope: 1.088

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.546091	100.0	9259085.0	1.092181	Y
2	IC 140-87130/2	1.0	1.112361	100.0	8466946.0	1.112361	Y
3	IC 140-87130/3	5.0	5.325952	100.0	8416261.0	1.06519	Y
4	IC 140-87130/4	50.0	53.71027	100.0	8337493.0	1.074205	Y
5	IC 140-87130/5	400.0	422.802224	100.0	8638618.0	1.057006	Y
6	IC 140-87130/6	2000.0	2251.219562	100.0	8823289.0	1.12561	Y



Calibration

/ PCB-206

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

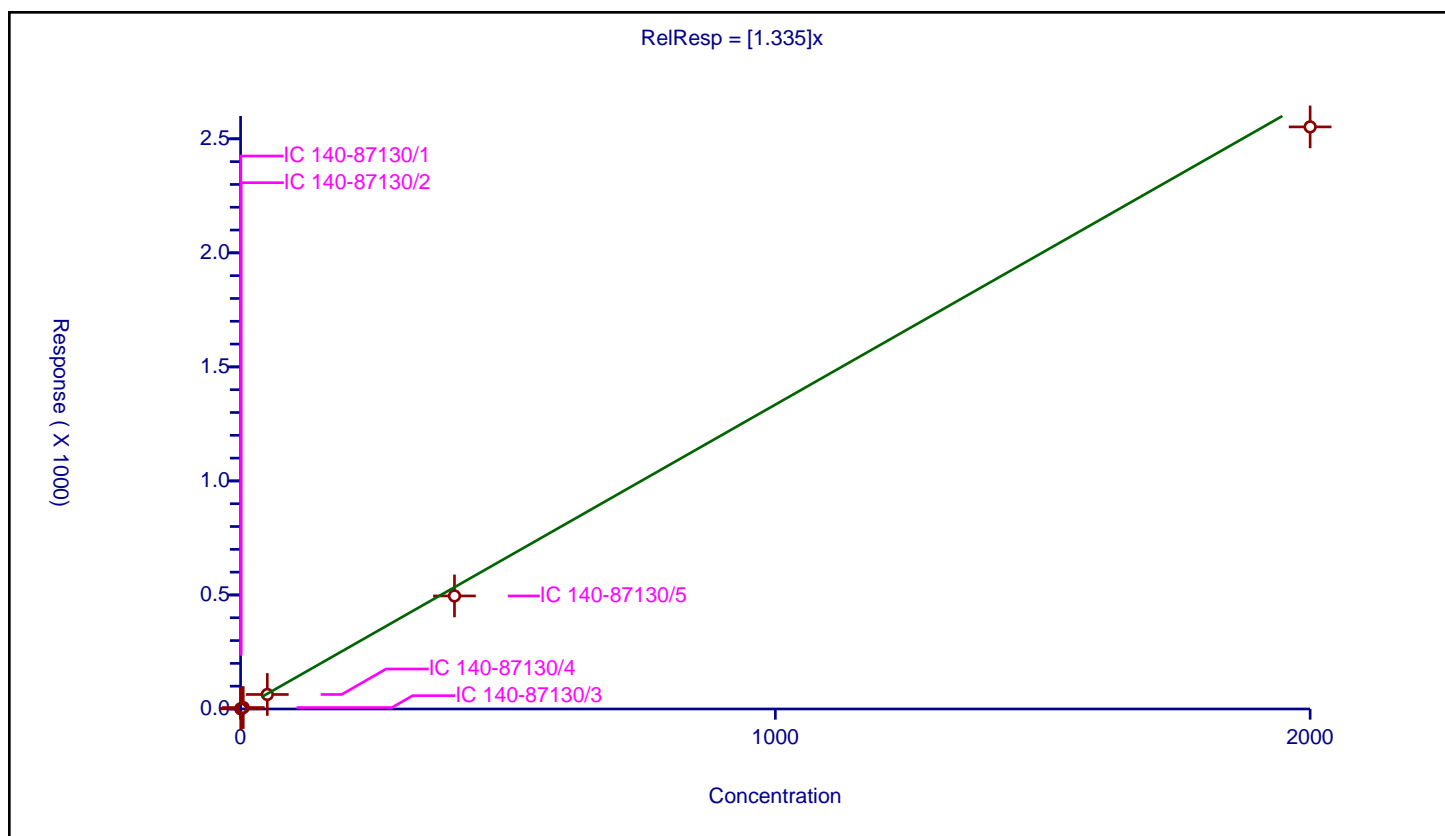
Curve Coefficients

Intercept: 0
Slope: 1.335

Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.790021	100.0	5499727.0	1.580042	Y
2	IC 140-87130/2	1.0	1.374218	100.0	4908757.0	1.374218	Y
3	IC 140-87130/3	5.0	6.317299	100.0	5024711.0	1.26346	Y
4	IC 140-87130/4	50.0	63.715313	100.0	4903942.0	1.274306	Y
5	IC 140-87130/5	400.0	495.726085	100.0	5087280.0	1.239315	Y
6	IC 140-87130/6	2000.0	2552.25413	100.0	5196483.0	1.276127	Y



Calibration

/ PCB-207

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

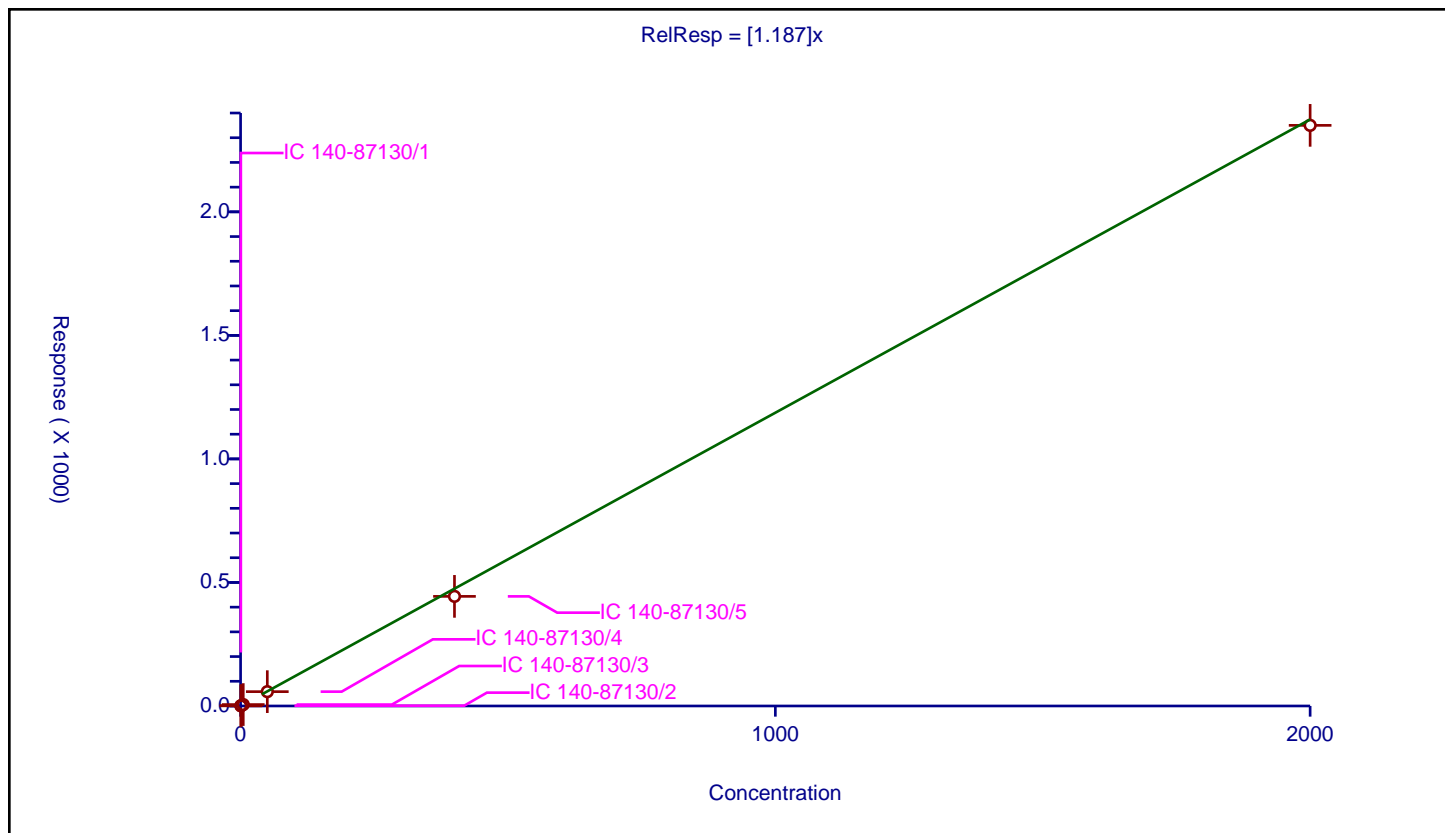
Curve Coefficients

Intercept: 0
Slope: 1.187

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.665599	100.0	7500908.0	1.331199	Y
2	IC 140-87130/2	1.0	1.181299	100.0	6757986.0	1.181299	Y
3	IC 140-87130/3	5.0	5.820938	100.0	6859651.0	1.164188	Y
4	IC 140-87130/4	50.0	58.054956	100.0	6680775.0	1.161099	Y
5	IC 140-87130/5	400.0	443.625932	100.0	7135804.0	1.109065	Y
6	IC 140-87130/6	2000.0	2350.061025	100.0	7275684.0	1.175031	Y



Calibration

/ PCB-208

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

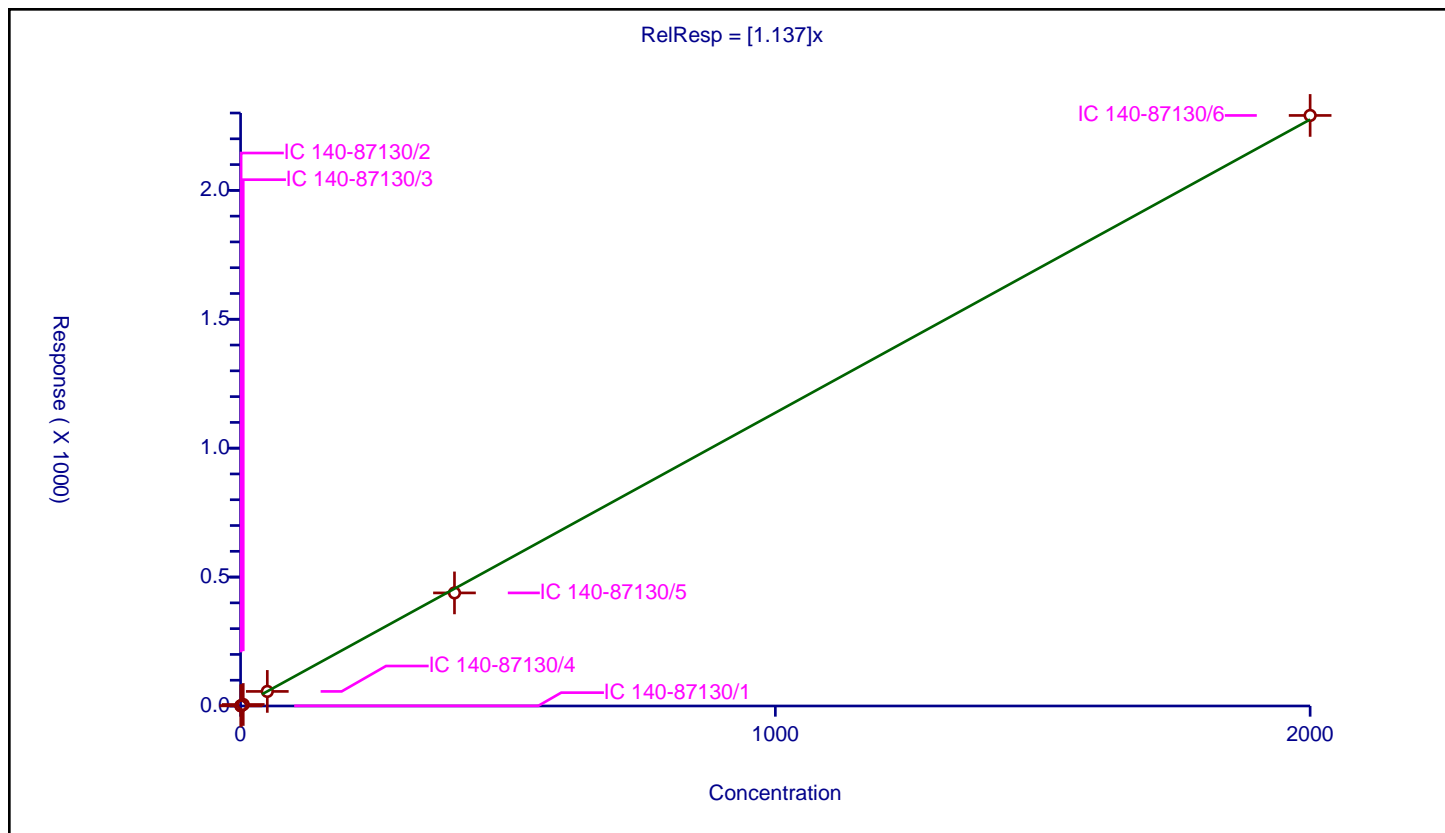
Curve Coefficients

Intercept: 0
 Slope: 1.137

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554533	100.0	7500908.0	1.109066	Y
2	IC 140-87130/2	1.0	1.178739	100.0	6757986.0	1.178739	Y
3	IC 140-87130/3	5.0	5.825005	100.0	6859651.0	1.165001	Y
4	IC 140-87130/4	50.0	56.499313	100.0	6680775.0	1.129986	Y
5	IC 140-87130/5	400.0	438.638533	100.0	7135804.0	1.096596	Y
6	IC 140-87130/6	2000.0	2290.579635	100.0	7275684.0	1.14529	Y



Calibration

/ PCB-21

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

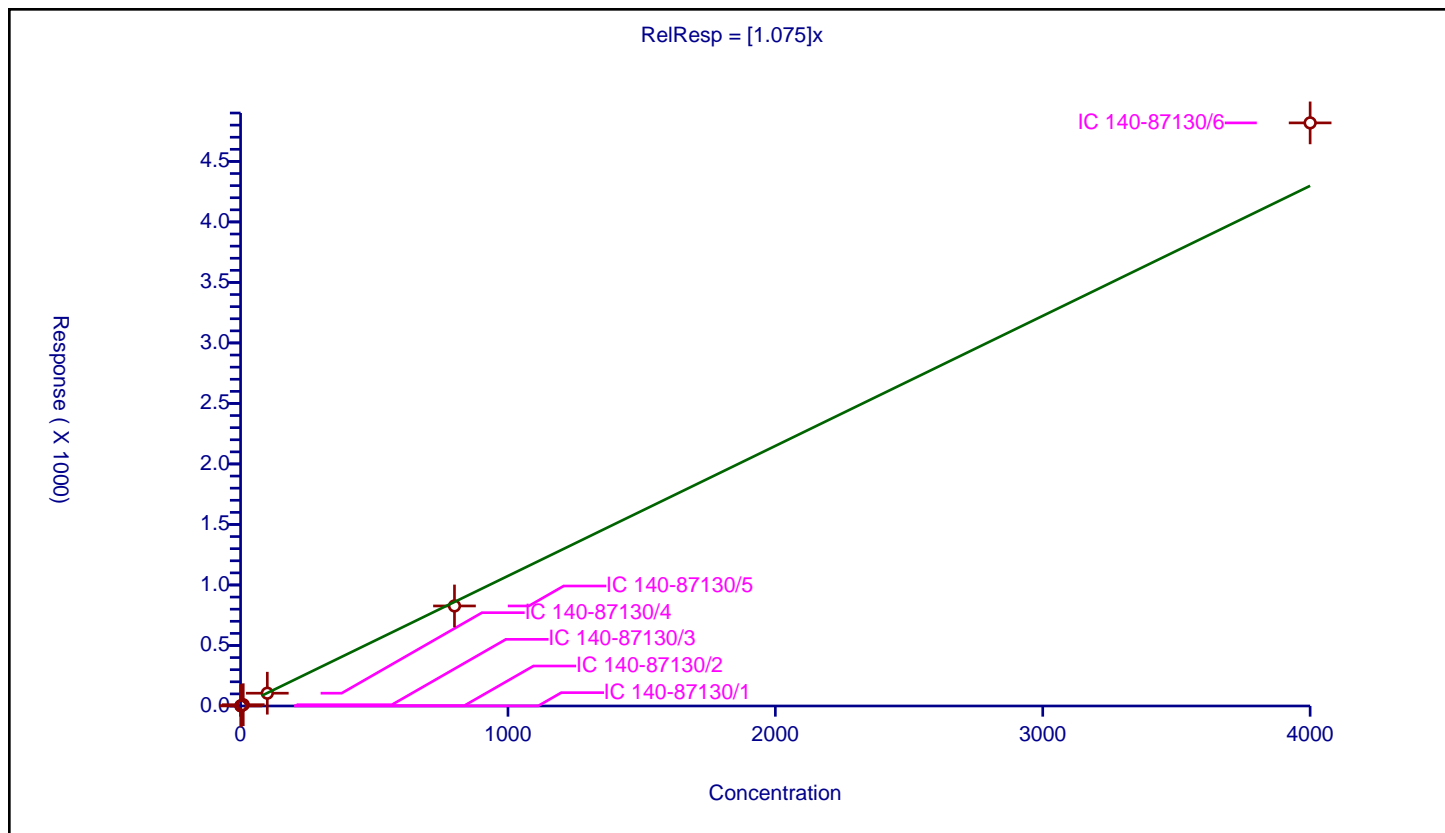
Curve Coefficients

Intercept: 0
 Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Calibration

/ PCB-21/33

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

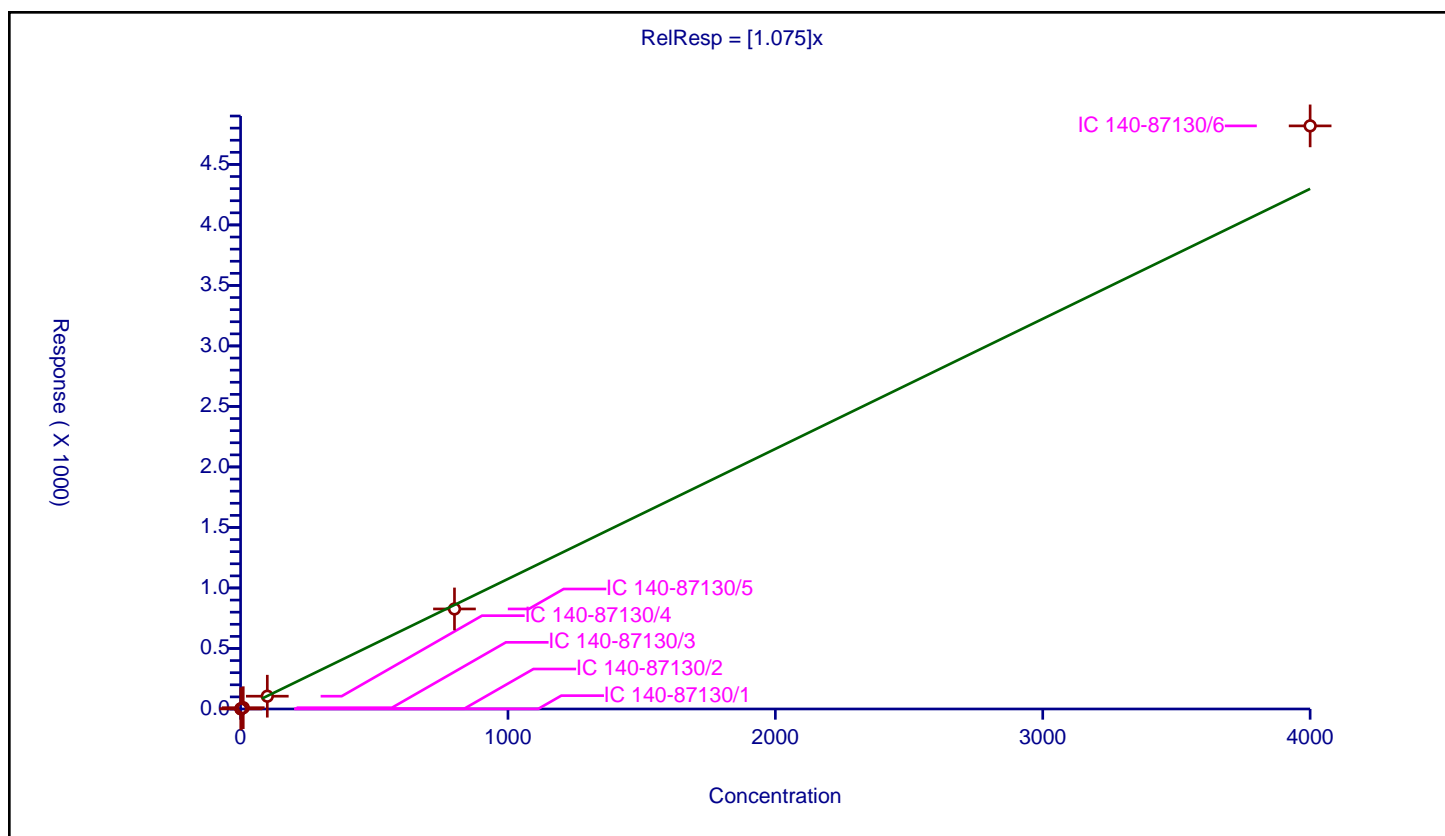
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Calibration

/ PCB-22

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

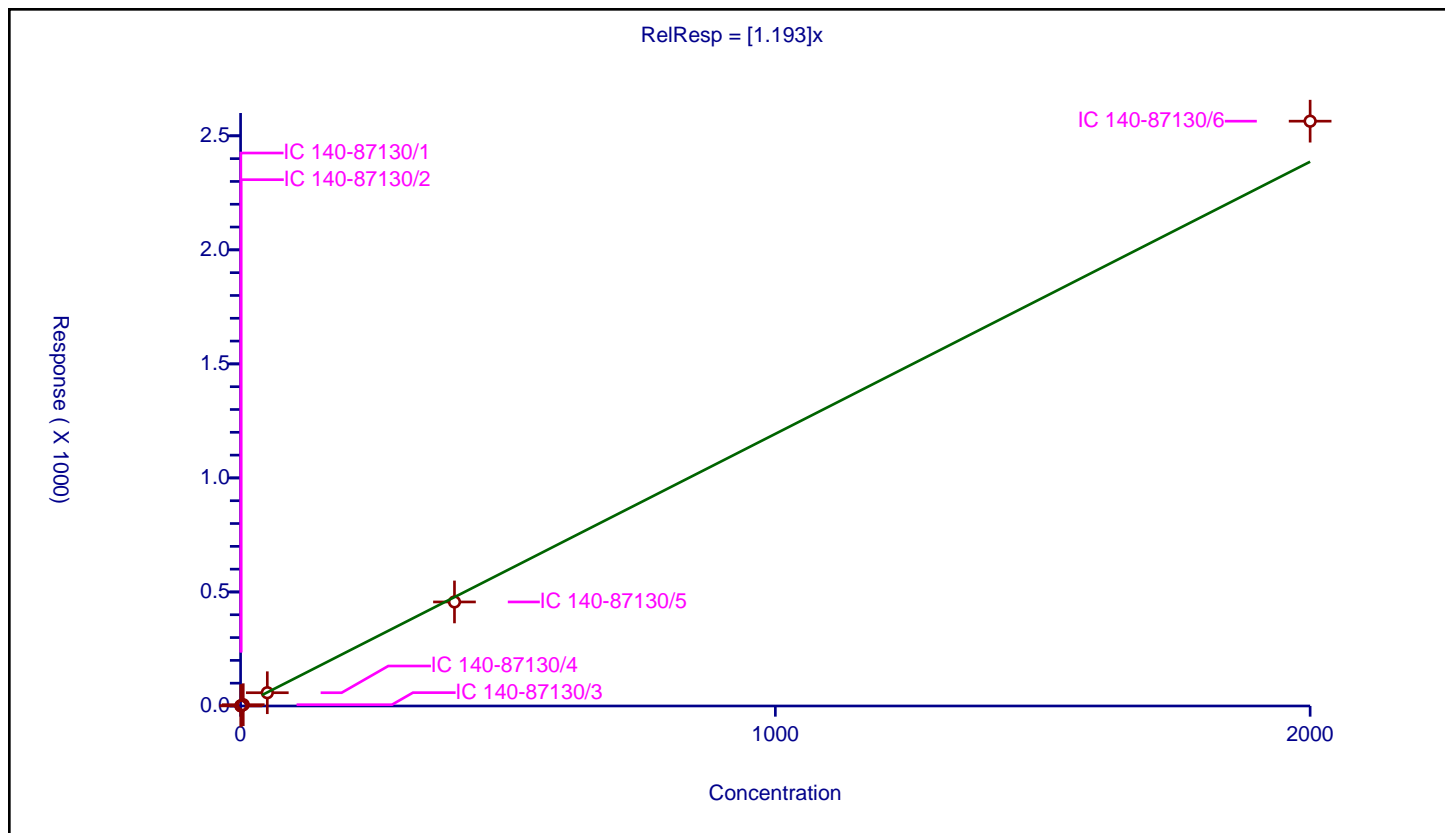
Curve Coefficients

Intercept: 0
 Slope: 1.193

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.60272	100.0	14507892.0	1.20544	Y
2	IC 140-87130/2	1.0	1.240031	100.0	13255798.0	1.240031	Y
3	IC 140-87130/3	5.0	5.639909	100.0	13114910.0	1.127982	Y
4	IC 140-87130/4	50.0	58.176	100.0	13535671.0	1.16352	Y
5	IC 140-87130/5	400.0	456.164439	100.0	14730805.0	1.140411	Y
6	IC 140-87130/6	2000.0	2564.170923	100.0	15552321.0	1.282085	Y



Calibration

/ PCB-23

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

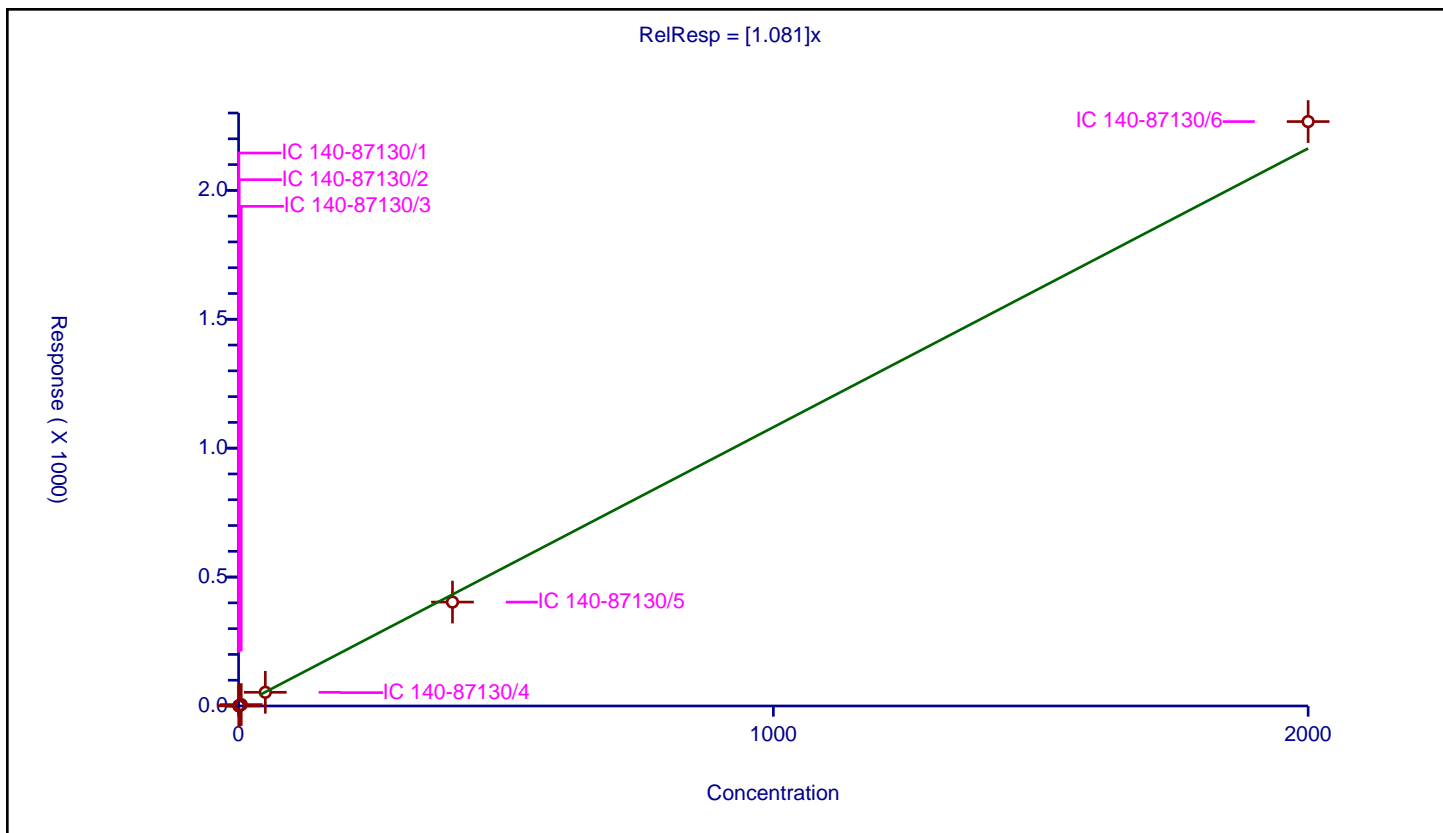
Curve Coefficients

Intercept: 0
 Slope: 1.081

Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542298	100.0	14507892.0	1.084596	Y
2	IC 140-87130/2	1.0	1.117639	100.0	13255798.0	1.117639	Y
3	IC 140-87130/3	5.0	5.413869	100.0	13114910.0	1.082774	Y
4	IC 140-87130/4	50.0	53.092071	100.0	13535671.0	1.061841	Y
5	IC 140-87130/5	400.0	403.054334	100.0	14730805.0	1.007636	Y
6	IC 140-87130/6	2000.0	2266.78843	100.0	15552321.0	1.133394	Y



Calibration

/ PCB-24

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

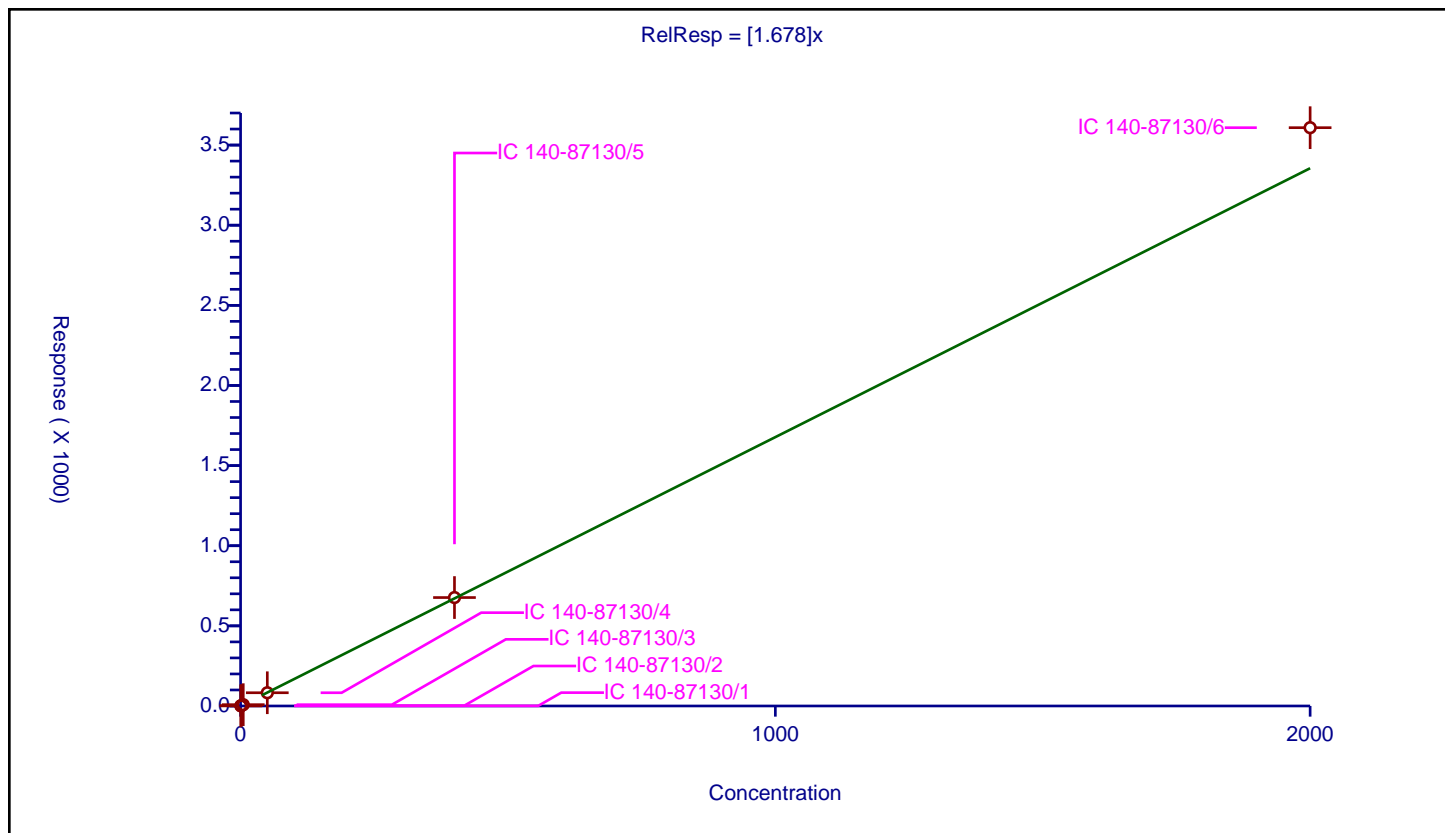
Curve Coefficients

Intercept: 0
Slope: 1.678

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.832321	100.0	3711790.0	1.664642	Y
2	IC 140-87130/2	1.0	1.622033	100.0	3424036.0	1.622033	Y
3	IC 140-87130/3	5.0	8.156379	100.0	3389482.0	1.631276	Y
4	IC 140-87130/4	50.0	82.607222	100.0	3406868.0	1.652144	Y
5	IC 140-87130/5	400.0	676.659253	100.0	3537933.0	1.691648	Y
6	IC 140-87130/6	2000.0	3608.425176	100.0	3634856.0	1.804213	Y



Calibration

/ PCB-25

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

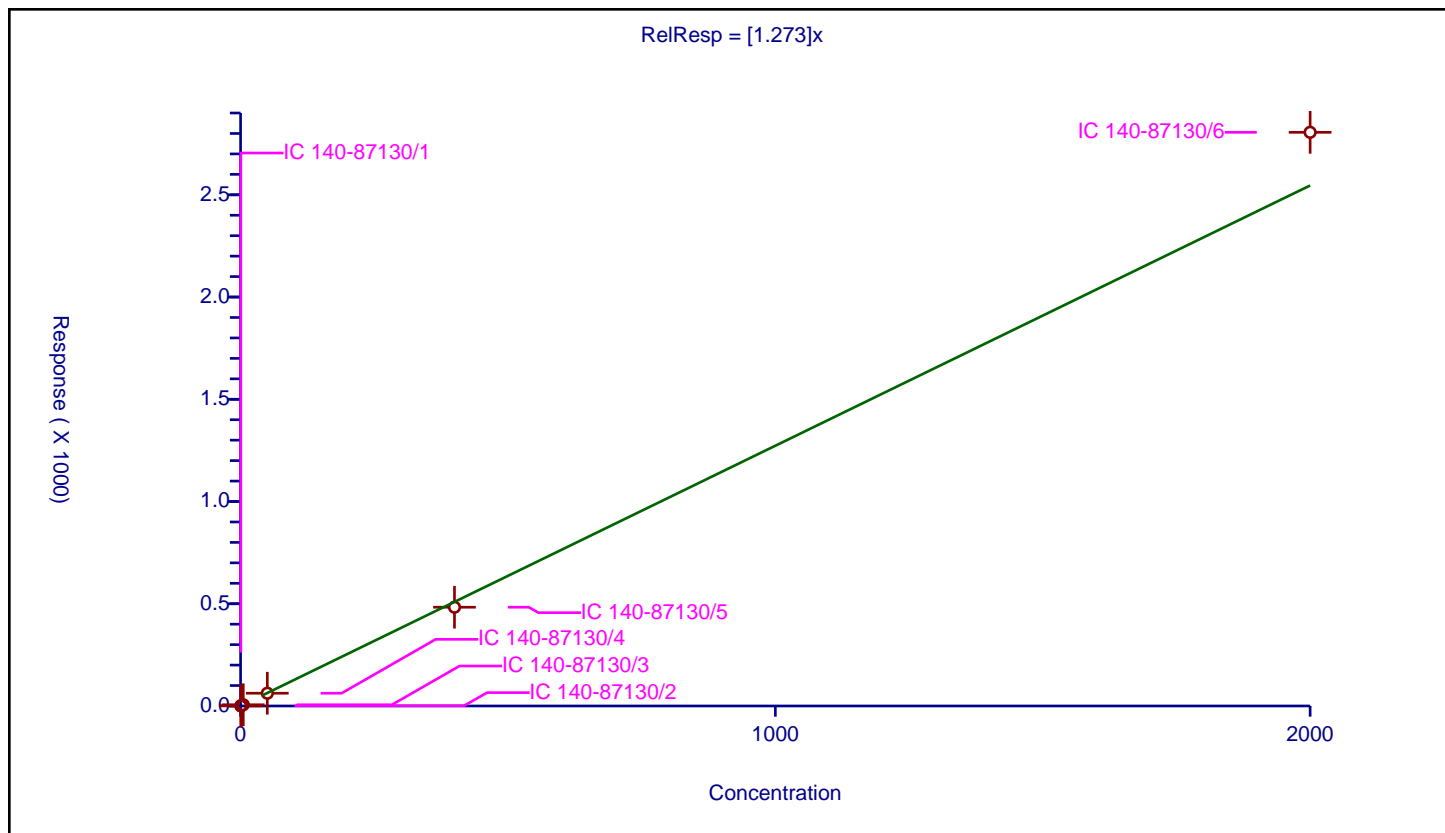
Curve Coefficients

Intercept: 0
Slope: 1.273

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673964	100.0	14507892.0	1.347928	Y
2	IC 140-87130/2	1.0	1.213575	100.0	13255798.0	1.213575	Y
3	IC 140-87130/3	5.0	6.086302	100.0	13114910.0	1.21726	Y
4	IC 140-87130/4	50.0	62.388159	100.0	13535671.0	1.247763	Y
5	IC 140-87130/5	400.0	482.954306	100.0	14730805.0	1.207386	Y
6	IC 140-87130/6	2000.0	2805.539128	100.0	15552321.0	1.40277	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

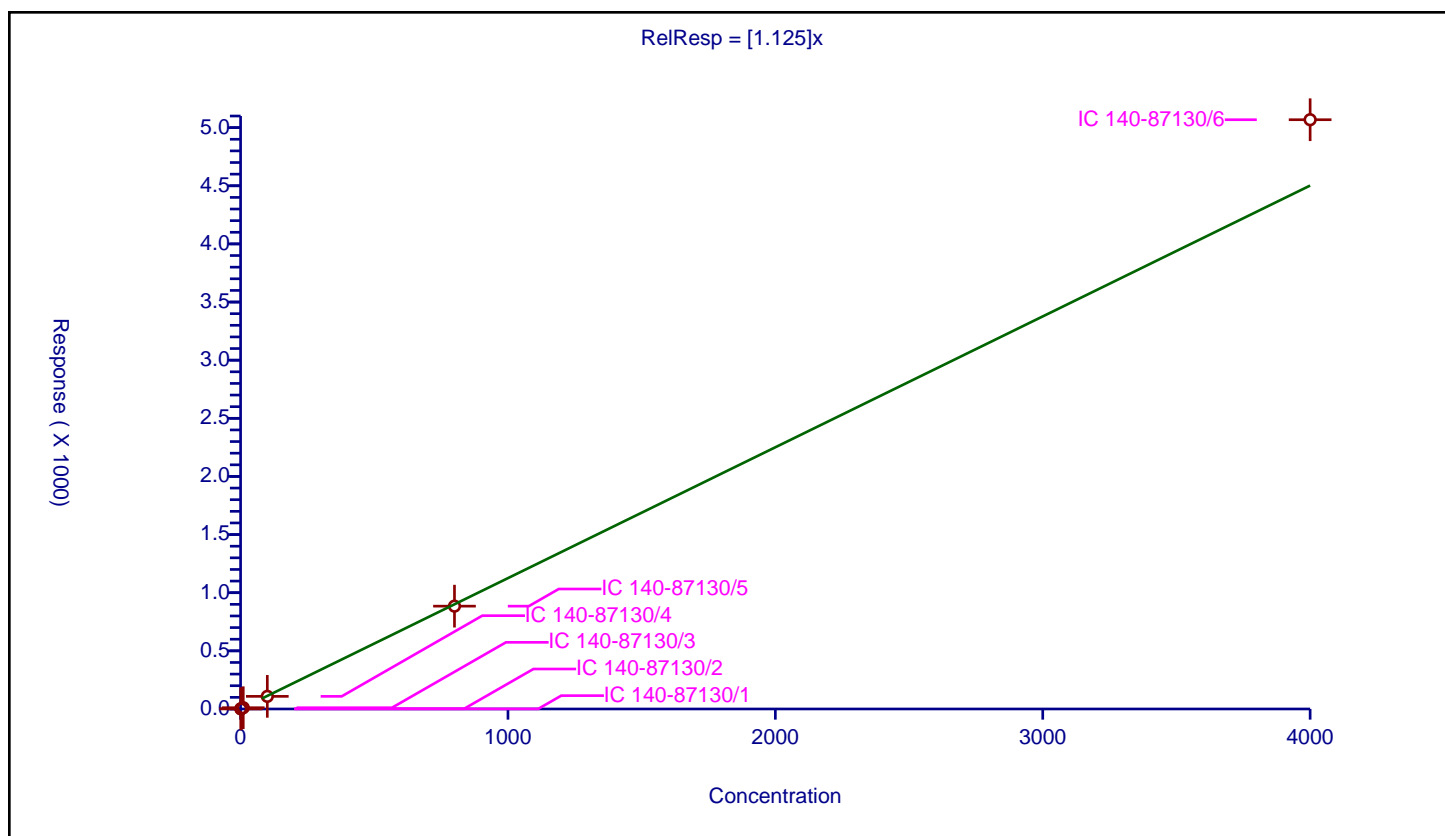
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



Calibration

/ PCB-26/29

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

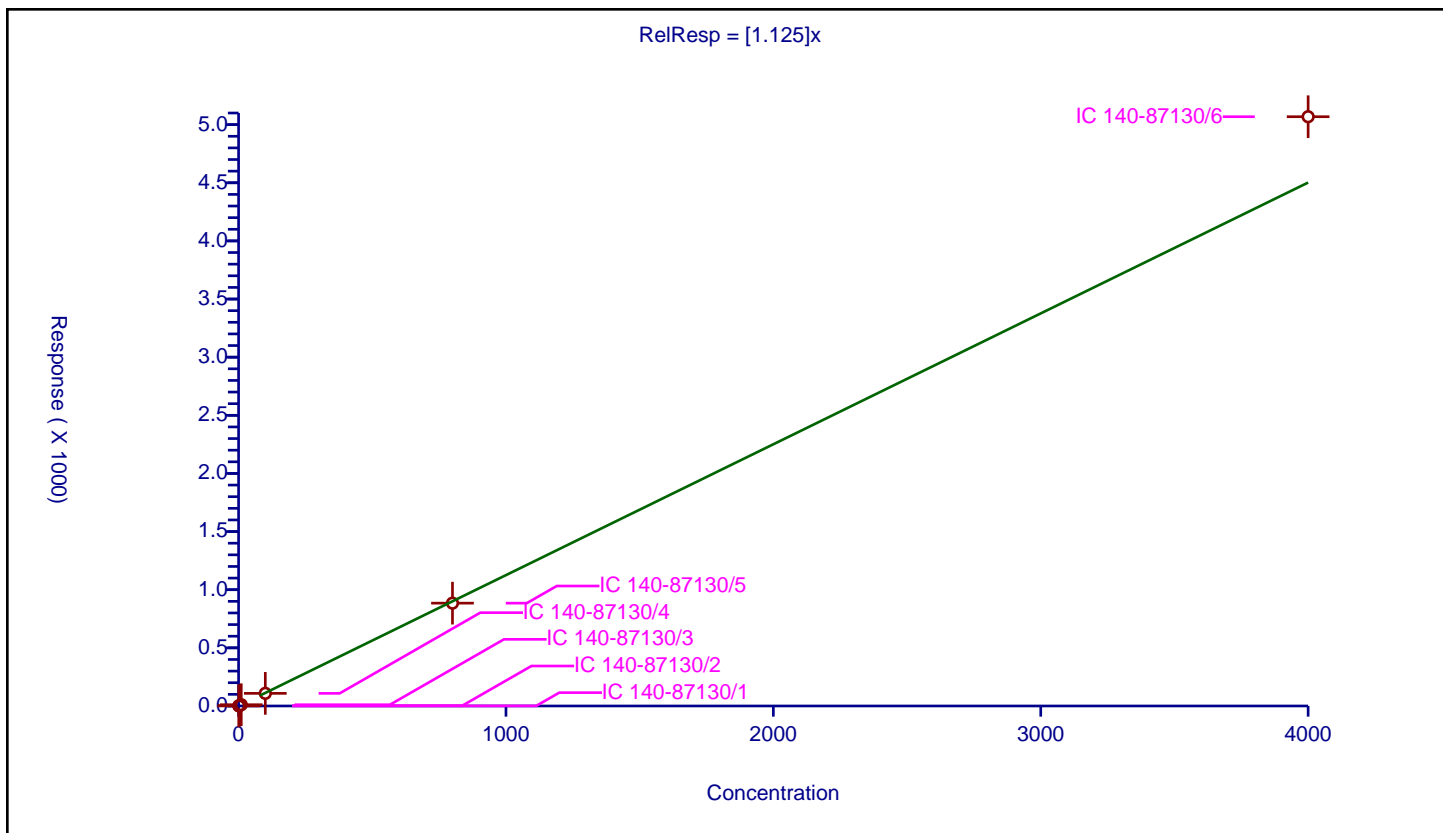
Curve Coefficients

Intercept: 0
 Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



Calibration

/ PCB-27

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

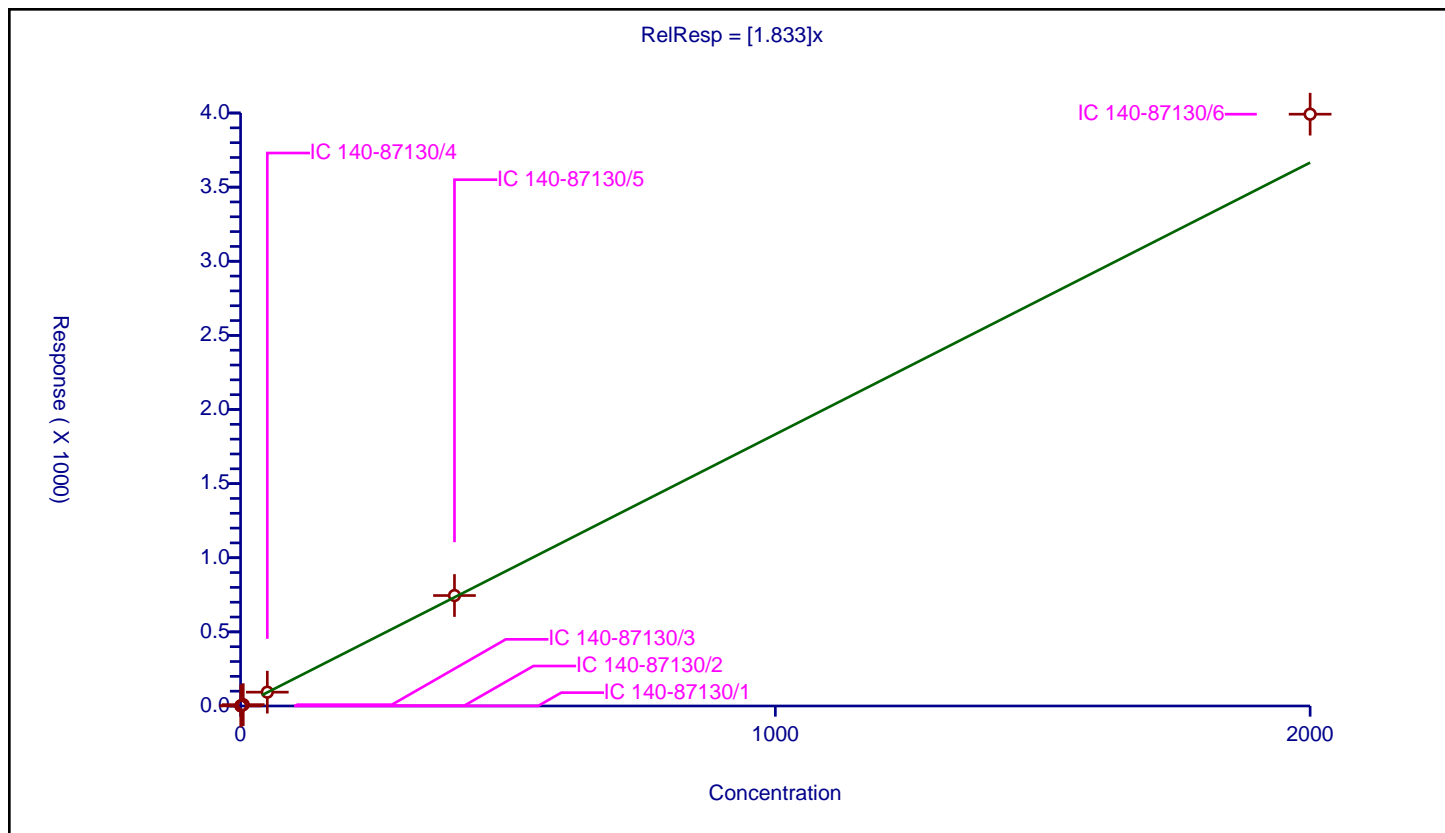
Curve Coefficients

Intercept: 0
Slope: 1.833

Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.817234	100.0	3711790.0	1.634467	Y
2	IC 140-87130/2	1.0	1.804099	100.0	3424036.0	1.804099	Y
3	IC 140-87130/3	5.0	9.161901	100.0	3389482.0	1.83238	Y
4	IC 140-87130/4	50.0	93.3283	100.0	3406868.0	1.866566	Y
5	IC 140-87130/5	400.0	745.086524	100.0	3537933.0	1.862716	Y
6	IC 140-87130/6	2000.0	3992.112865	100.0	3634856.0	1.996056	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

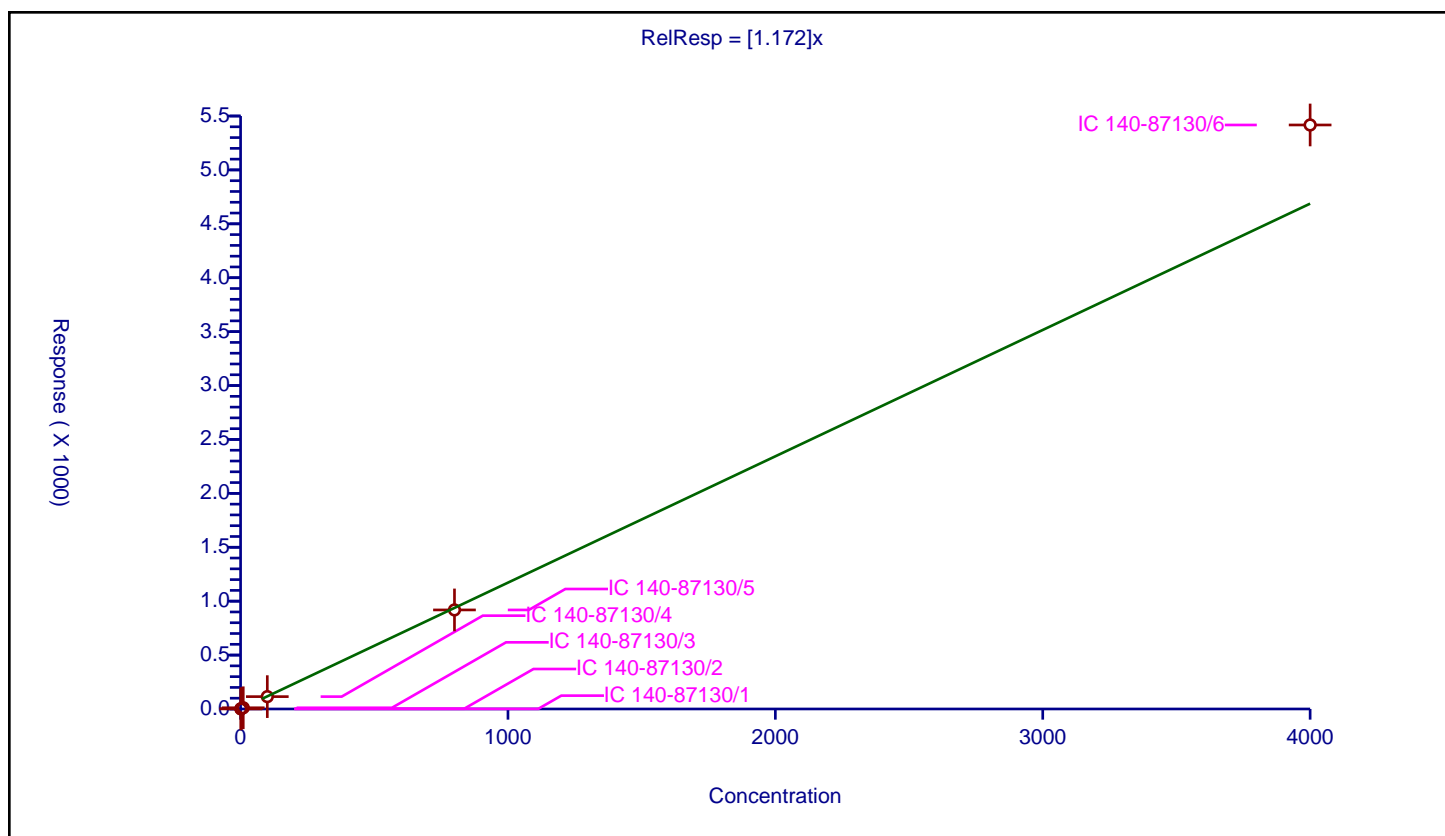
Curve Coefficients

Intercept: 0
Slope: 1.172

Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



Calibration

/ PCB-28L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

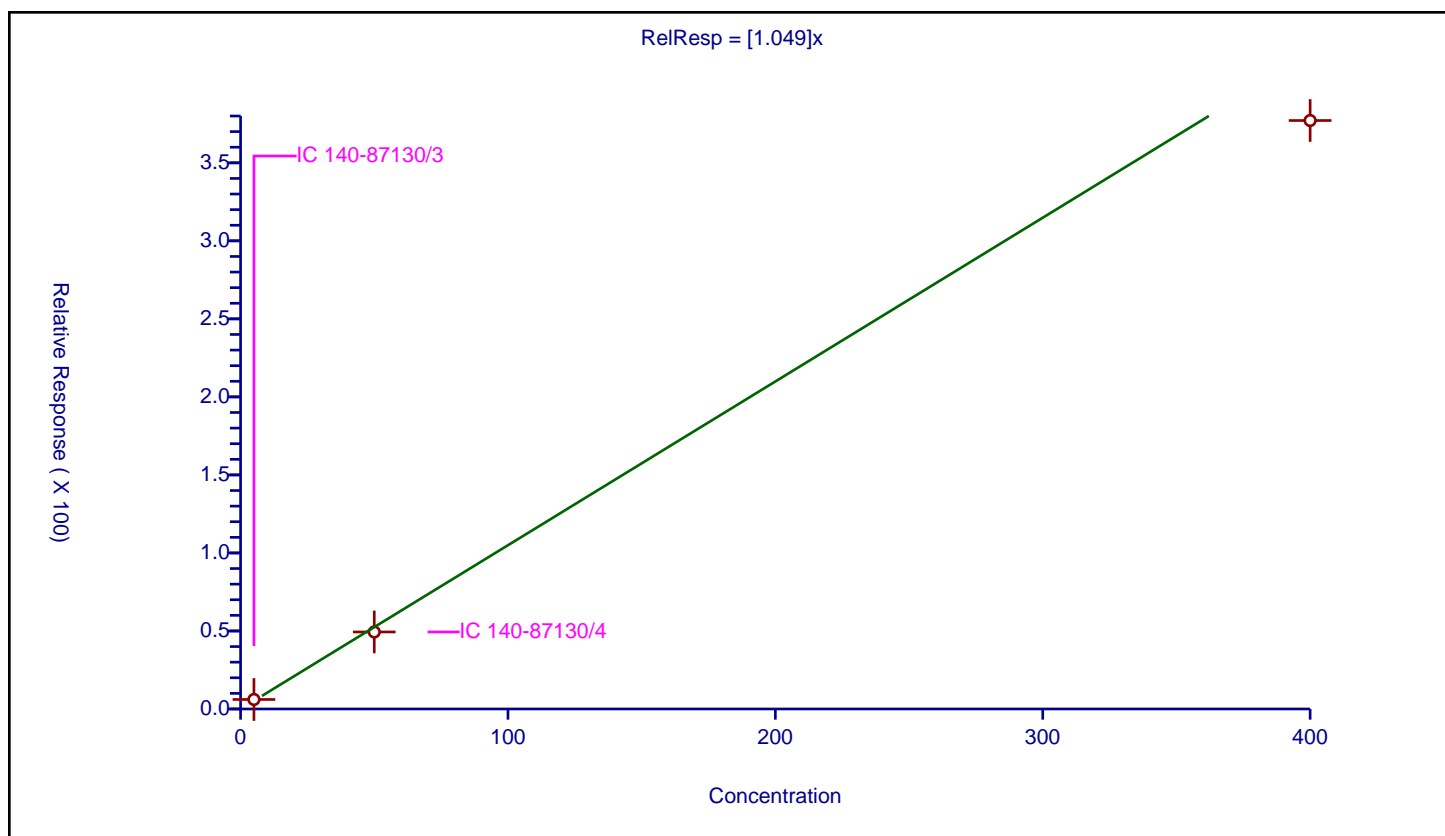
Curve Coefficients

Intercept: 0
 Slope: 1.049

Error Coefficients

Relative Standard Deviation: 14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	6.0904	100.0	15275204.0	1.21808	Y
2	IC 140-87130/4	50.0	49.365653	100.0	15561763.0	0.987313	Y
3	IC 140-87130/5	400.0	377.114819	100.0	16737748.0	0.942787	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

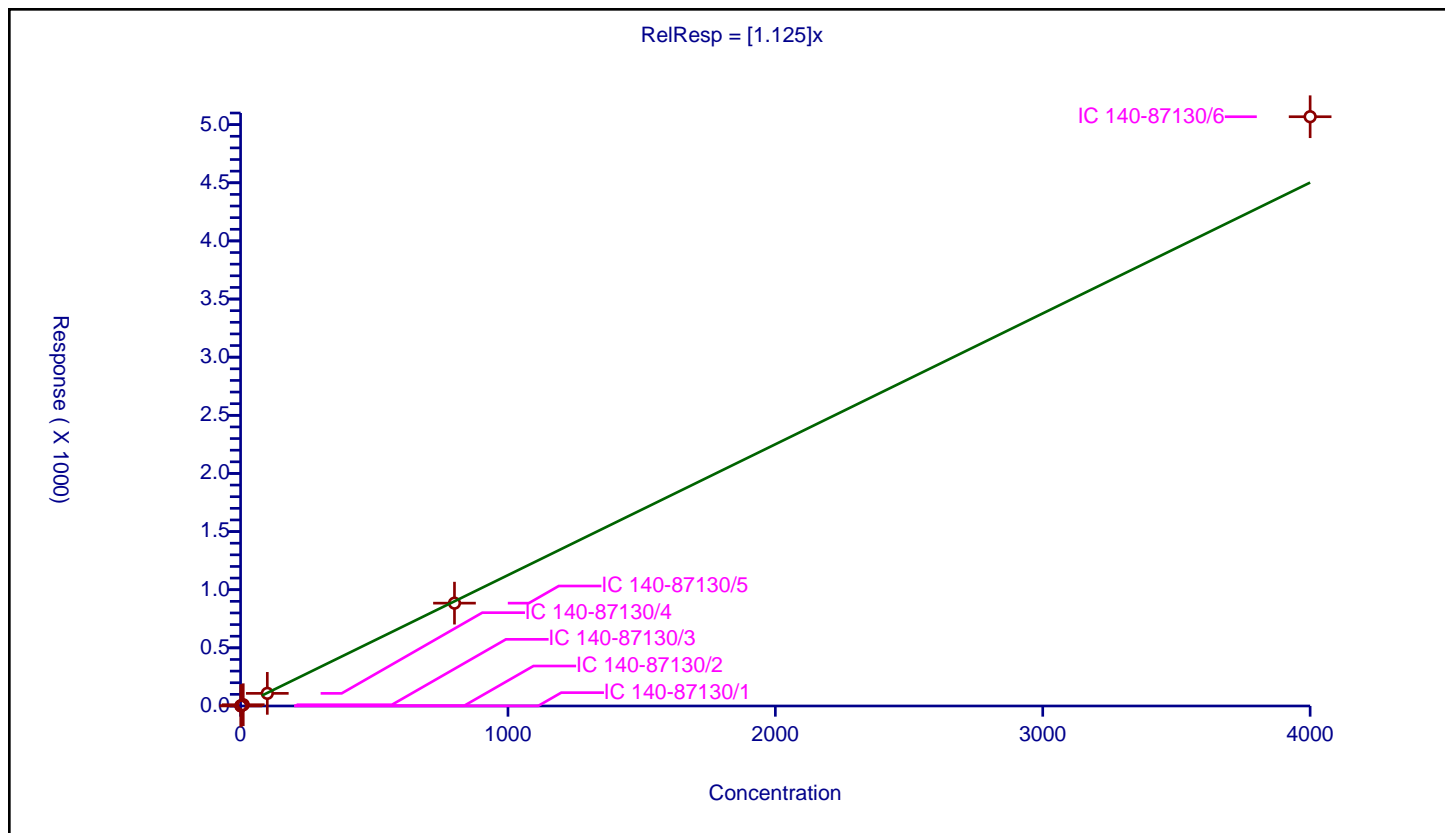
Curve Coefficients

Intercept: 0
Slope: 1.125

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



Calibration

/ PCB-3

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

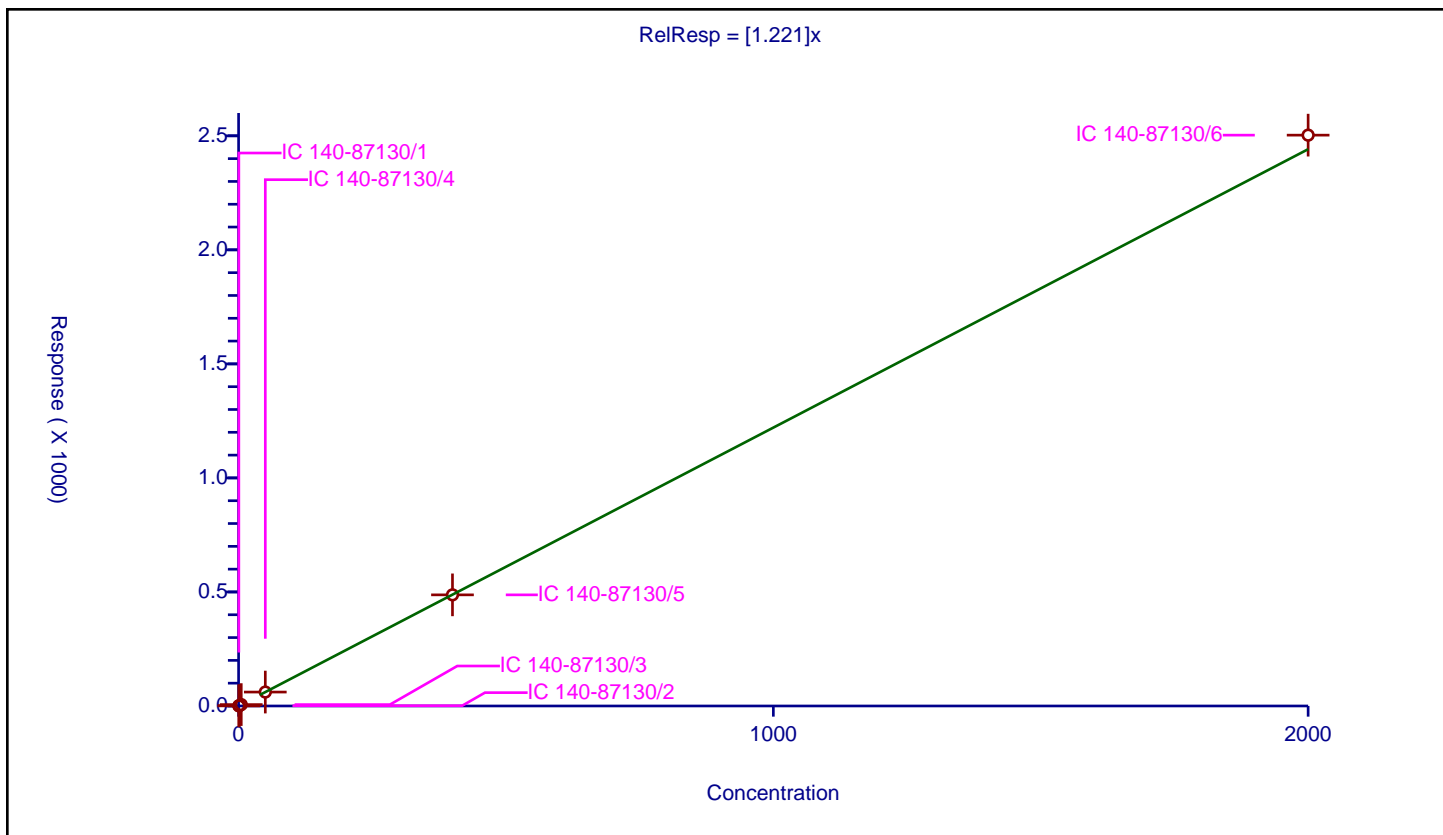
Curve Coefficients

Intercept: 0
Slope: 1.221

Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.617382	100.0	14134368.0	1.234763	Y
2	IC 140-87130/2	1.0	1.180658	100.0	13166477.0	1.180658	Y
3	IC 140-87130/3	5.0	6.081014	100.0	13154993.0	1.216203	Y
4	IC 140-87130/4	50.0	61.104113	100.0	13165806.0	1.222082	Y
5	IC 140-87130/5	400.0	487.316703	100.0	13803706.0	1.218292	Y
6	IC 140-87130/6	2000.0	2502.98306	100.0	14397062.0	1.251492	Y



Calibration

/ PCB-30

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

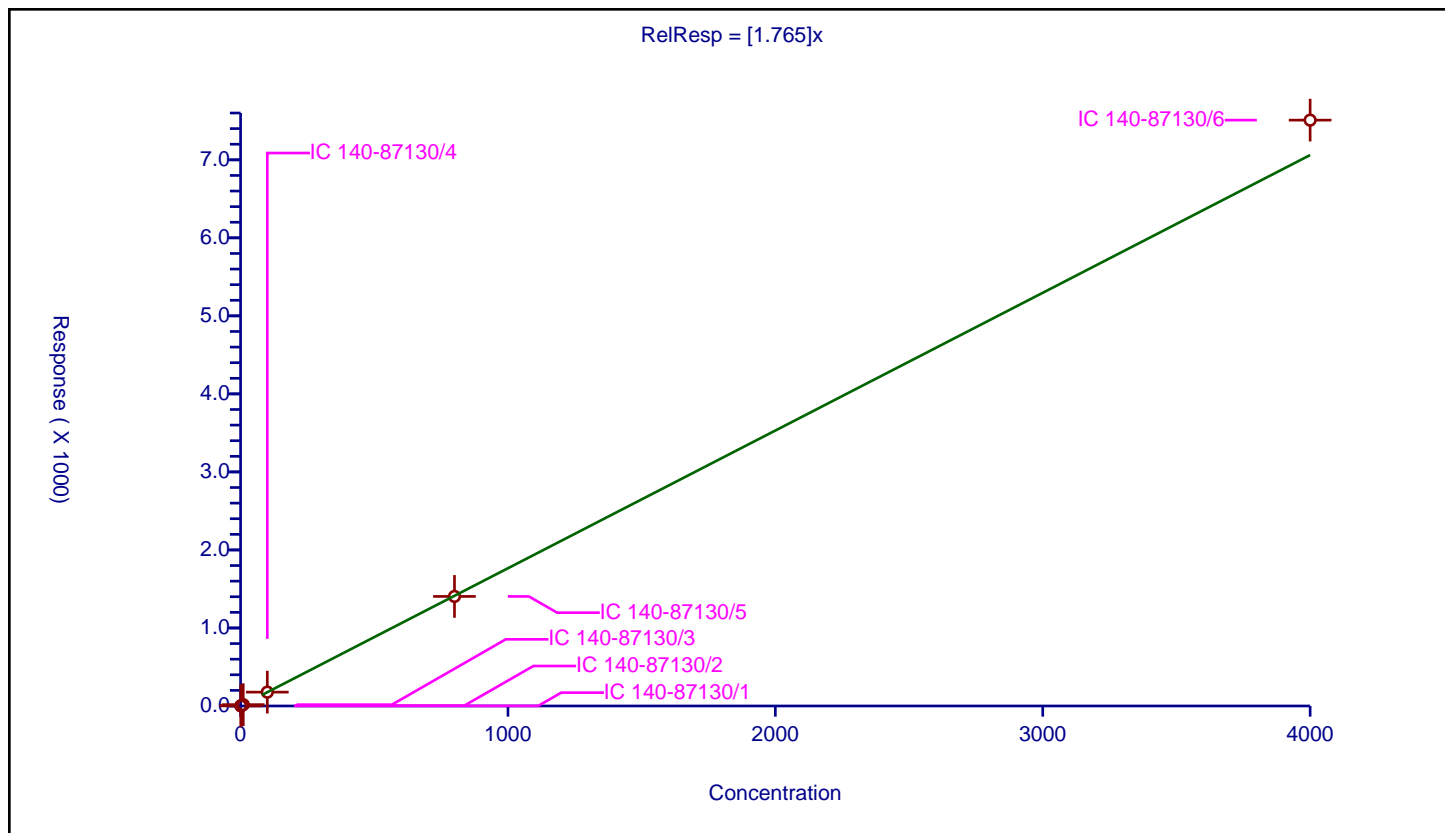
Curve Coefficients

Intercept: 0
Slope: 1.765

Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



Calibration

/ PCB-31

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

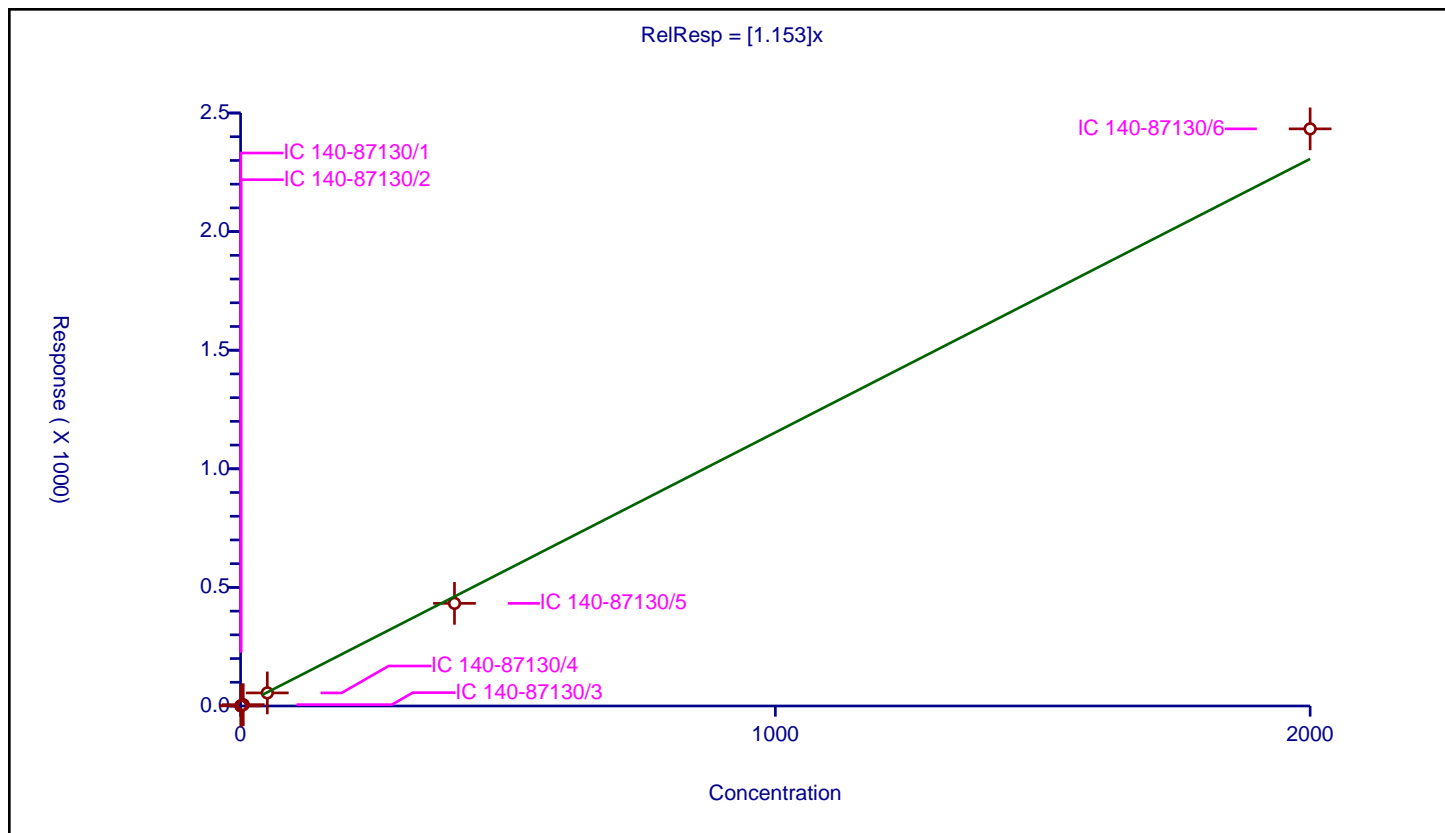
Curve Coefficients

Intercept: 0
Slope: 1.153

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584882	100.0	14507892.0	1.169763	Y
2	IC 140-87130/2	1.0	1.213363	100.0	13255798.0	1.213363	Y
3	IC 140-87130/3	5.0	5.680359	100.0	13114910.0	1.136072	Y
4	IC 140-87130/4	50.0	55.103799	100.0	13535671.0	1.102076	Y
5	IC 140-87130/5	400.0	432.638725	100.0	14730805.0	1.081597	Y
6	IC 140-87130/6	2000.0	2433.21782	100.0	15552321.0	1.216609	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

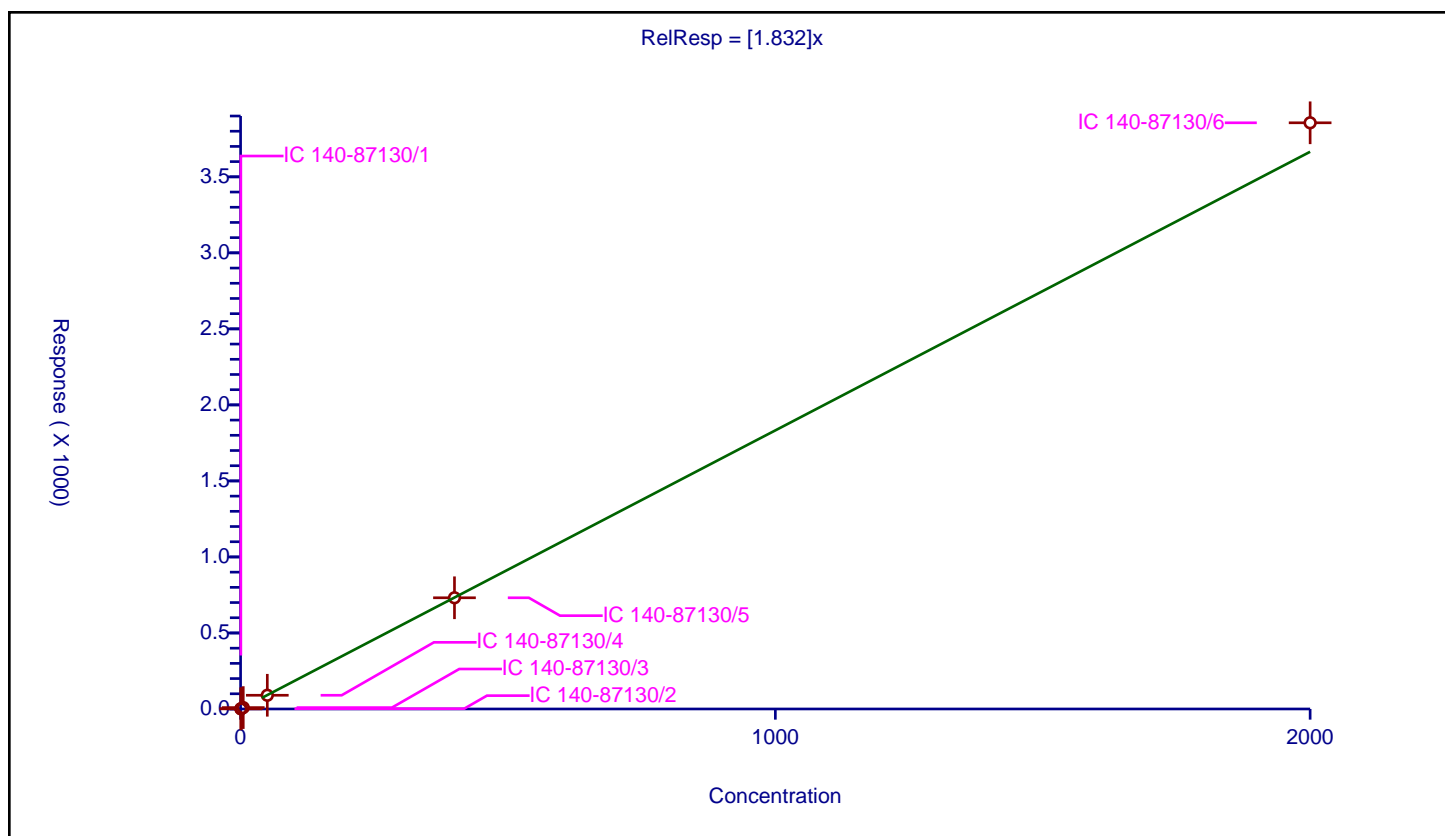
Curve Coefficients

Intercept: 0
Slope: 1.832

Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.921792	100.0	3711790.0	1.843585	Y
2	IC 140-87130/2	1.0	1.758948	100.0	3424036.0	1.758948	Y
3	IC 140-87130/3	5.0	9.147651	100.0	3389482.0	1.82953	Y
4	IC 140-87130/4	50.0	90.314858	100.0	3406868.0	1.806297	Y
5	IC 140-87130/5	400.0	731.427955	100.0	3537933.0	1.82857	Y
6	IC 140-87130/6	2000.0	3855.398646	100.0	3634856.0	1.927699	Y



Calibration

/ PCB-33

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

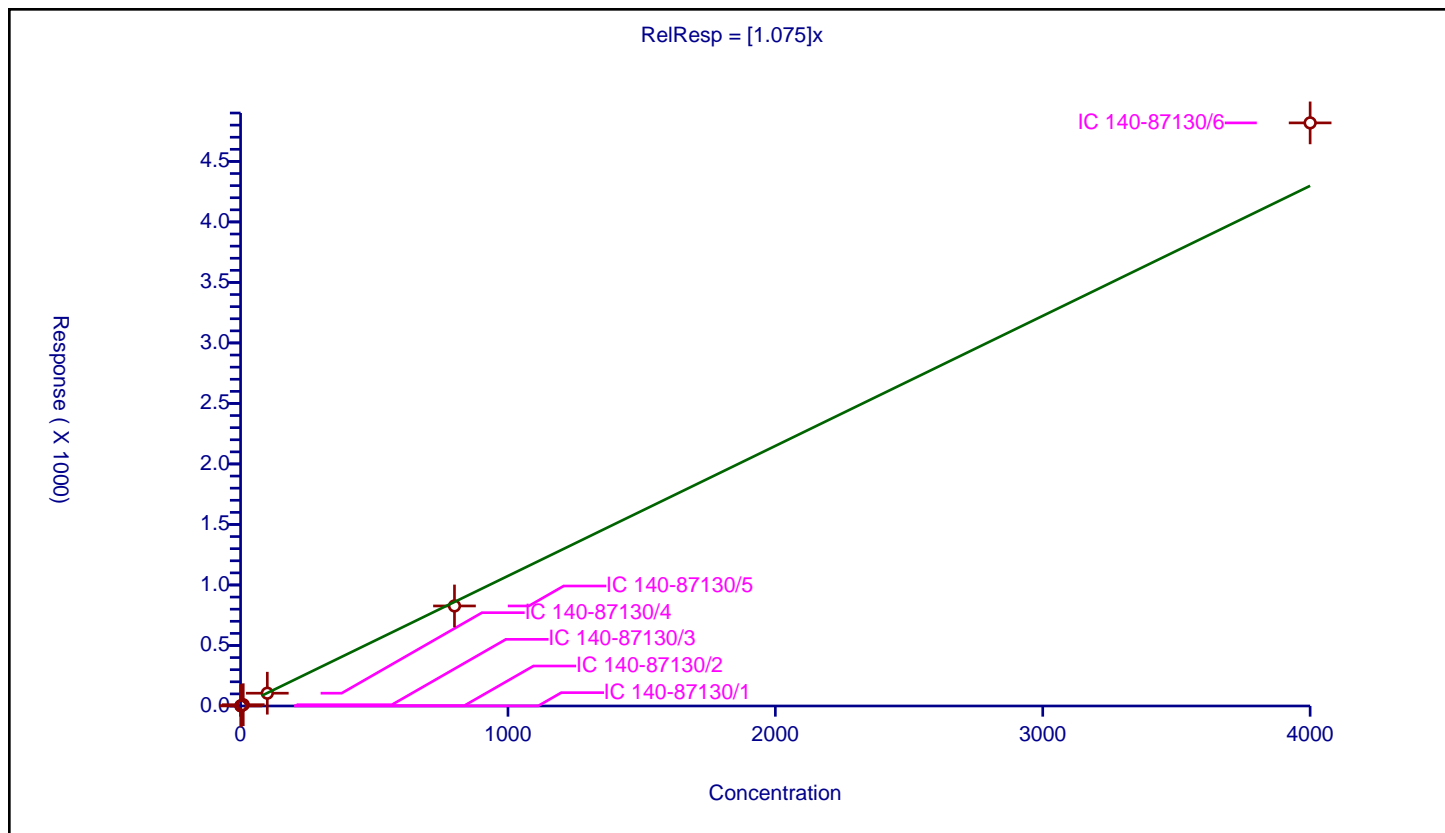
Curve Coefficients

Intercept: 0
Slope: 1.075

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

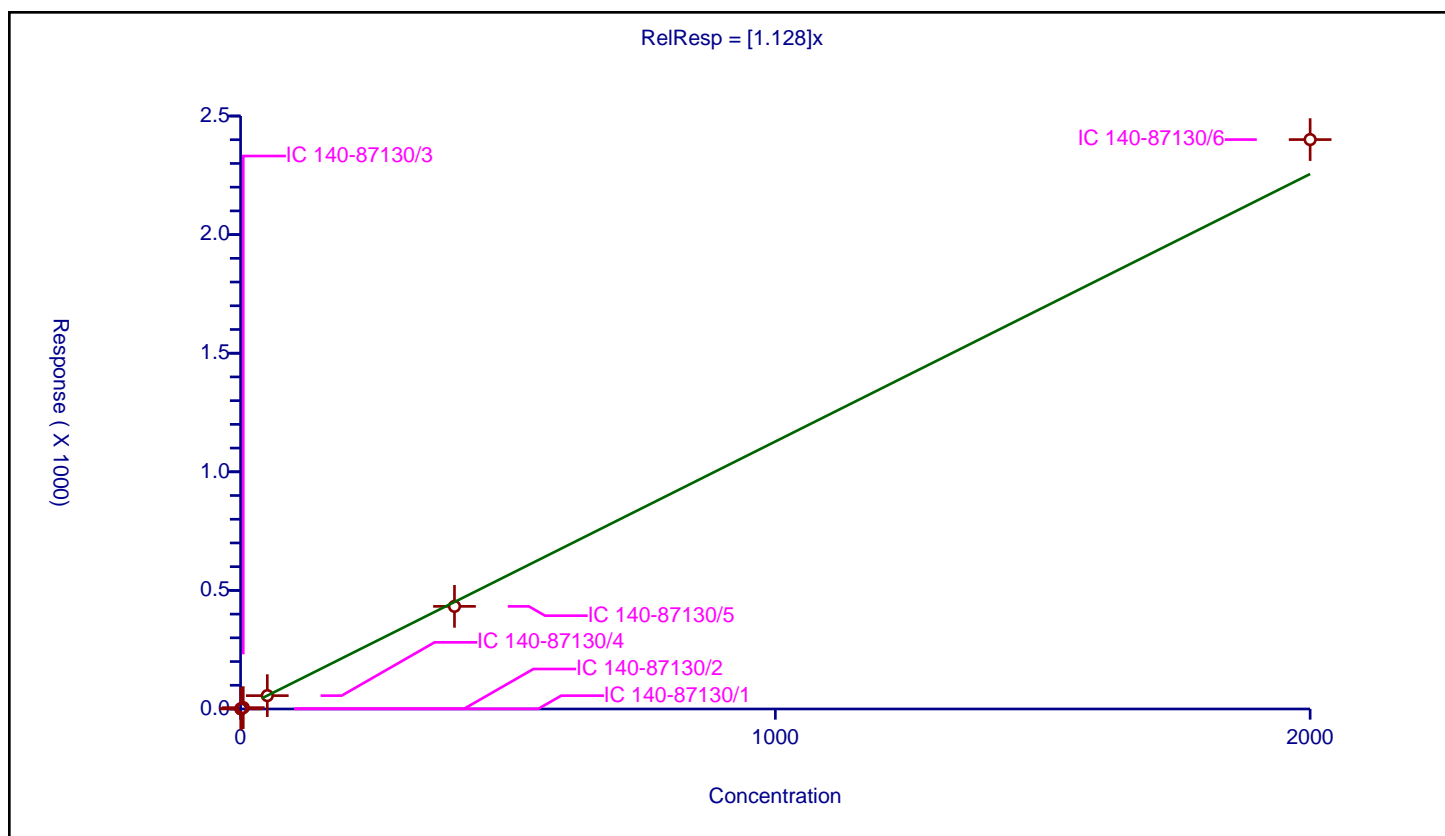
Curve Coefficients

Intercept: 0
Slope: 1.128

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563776	100.0	14507892.0	1.127552	Y
2	IC 140-87130/2	1.0	1.100062	100.0	13255798.0	1.100062	Y
3	IC 140-87130/3	5.0	5.657286	100.0	13114910.0	1.131457	Y
4	IC 140-87130/4	50.0	56.272681	100.0	13535671.0	1.125454	Y
5	IC 140-87130/5	400.0	432.655065	100.0	14730805.0	1.081638	Y
6	IC 140-87130/6	2000.0	2400.579778	100.0	15552321.0	1.20029	Y



Calibration

/ PCB-35

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

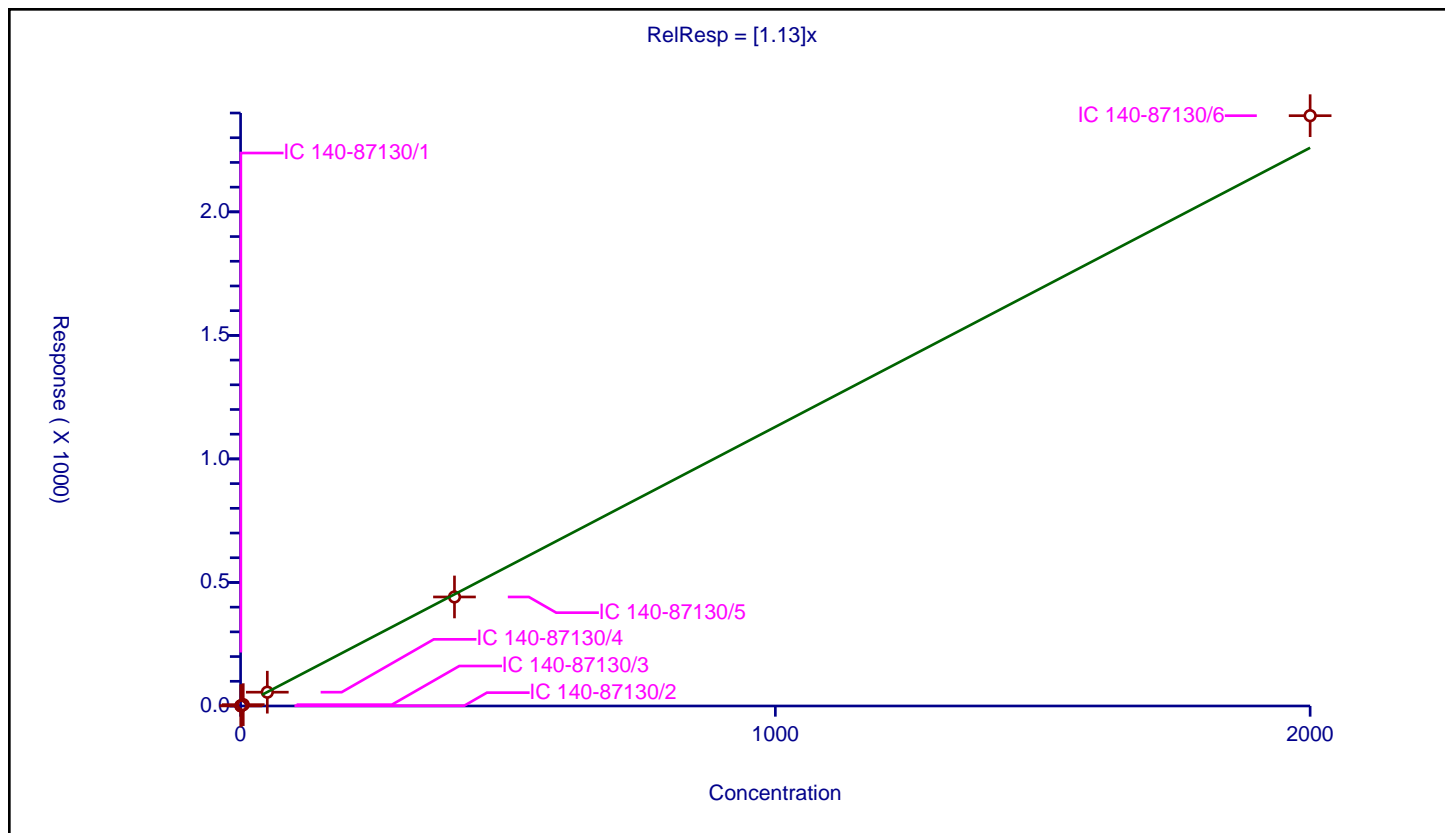
Curve Coefficients

Intercept: 0
Slope: 1.13

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.593215	100.0	14507892.0	1.18643	Y
2	IC 140-87130/2	1.0	1.076827	100.0	13255798.0	1.076827	Y
3	IC 140-87130/3	5.0	5.498276	100.0	13114910.0	1.099655	Y
4	IC 140-87130/4	50.0	55.869347	100.0	13535671.0	1.117387	Y
5	IC 140-87130/5	400.0	441.28255	100.0	14730805.0	1.103206	Y
6	IC 140-87130/6	2000.0	2389.202557	100.0	15552321.0	1.194601	Y

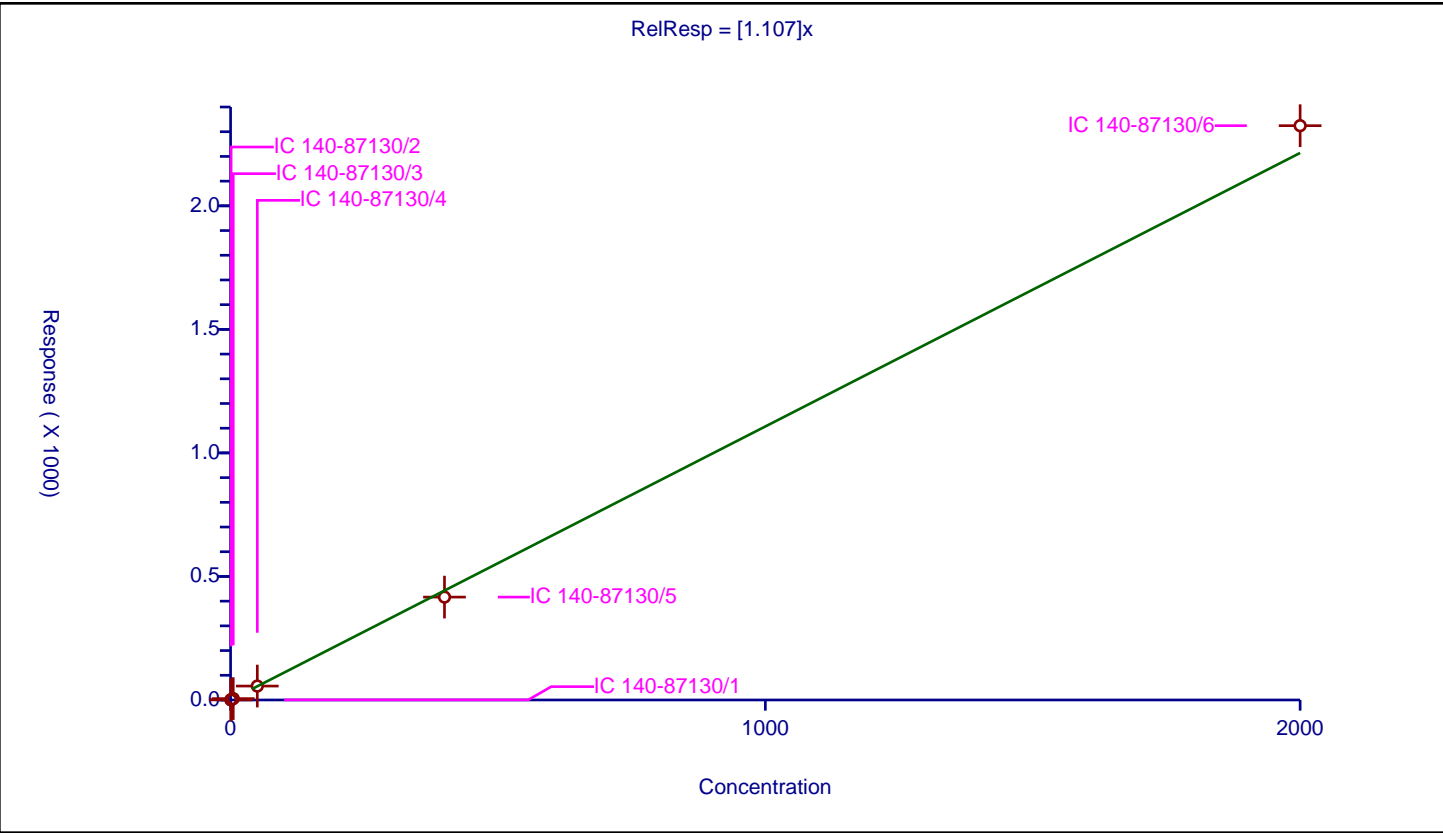


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.107

Error Coefficients	
Relative Standard Deviation:	
	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529546	100.0	14507892.0	1.059093	Y
2	IC 140-87130/2	1.0	1.136786	100.0	13255798.0	1.136786	Y
3	IC 140-87130/3	5.0	5.57727	100.0	13114910.0	1.115454	Y
4	IC 140-87130/4	50.0	56.385915	100.0	13535671.0	1.127718	Y
5	IC 140-87130/5	400.0	416.423699	100.0	14730805.0	1.041059	Y
6	IC 140-87130/6	2000.0	2324.412298	100.0	15552321.0	1.162206	Y



Calibration

/ PCB-37

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

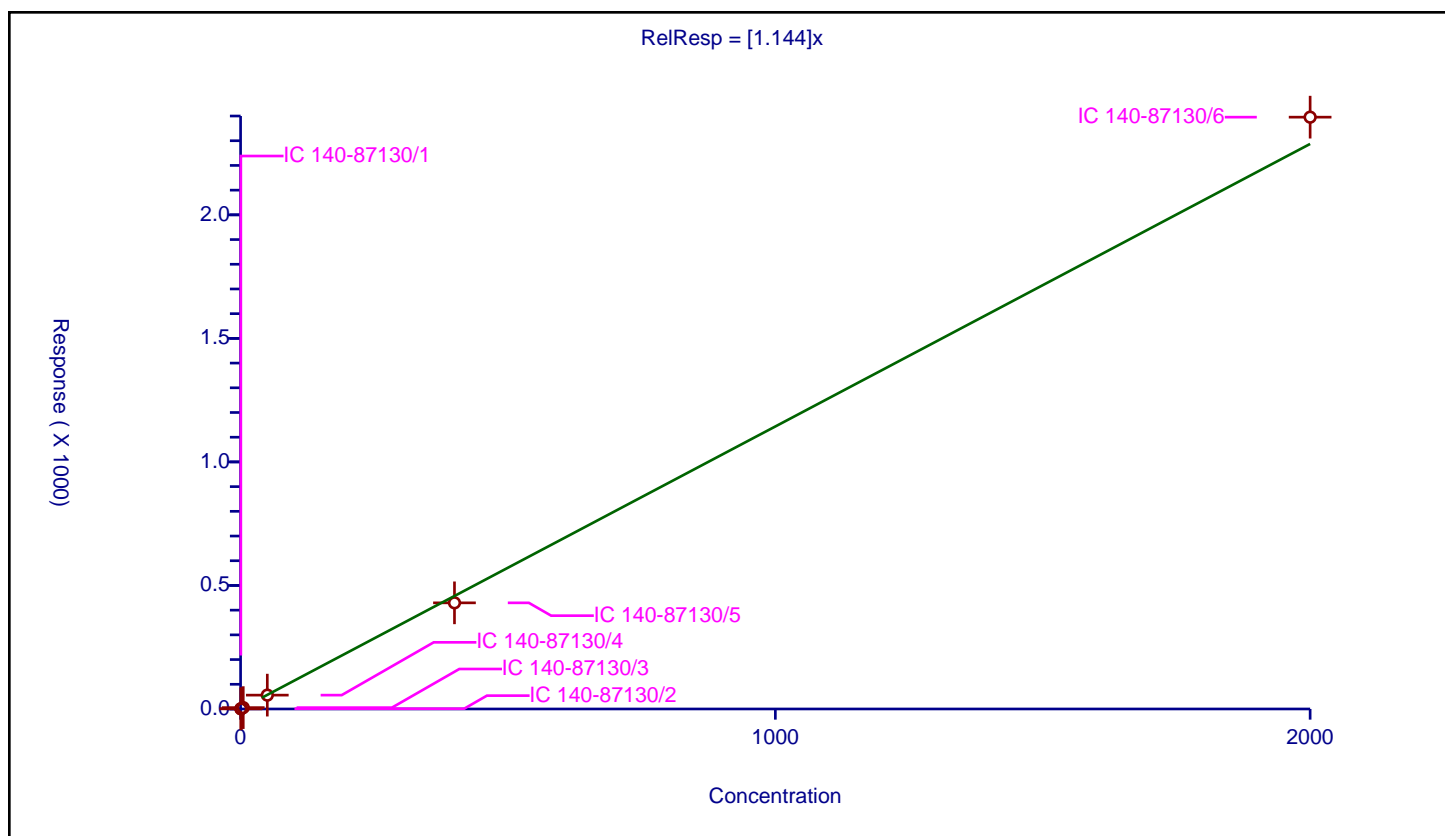
Curve Coefficients

Intercept: 0
Slope: 1.144

Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.622316	100.0	14507892.0	1.244633	Y
2	IC 140-87130/2	1.0	1.120151	100.0	13255798.0	1.120151	Y
3	IC 140-87130/3	5.0	5.516561	100.0	13114910.0	1.103312	Y
4	IC 140-87130/4	50.0	56.069758	100.0	13535671.0	1.121395	Y
5	IC 140-87130/5	400.0	429.577739	100.0	14730805.0	1.073944	Y
6	IC 140-87130/6	2000.0	2395.326453	100.0	15552321.0	1.197663	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

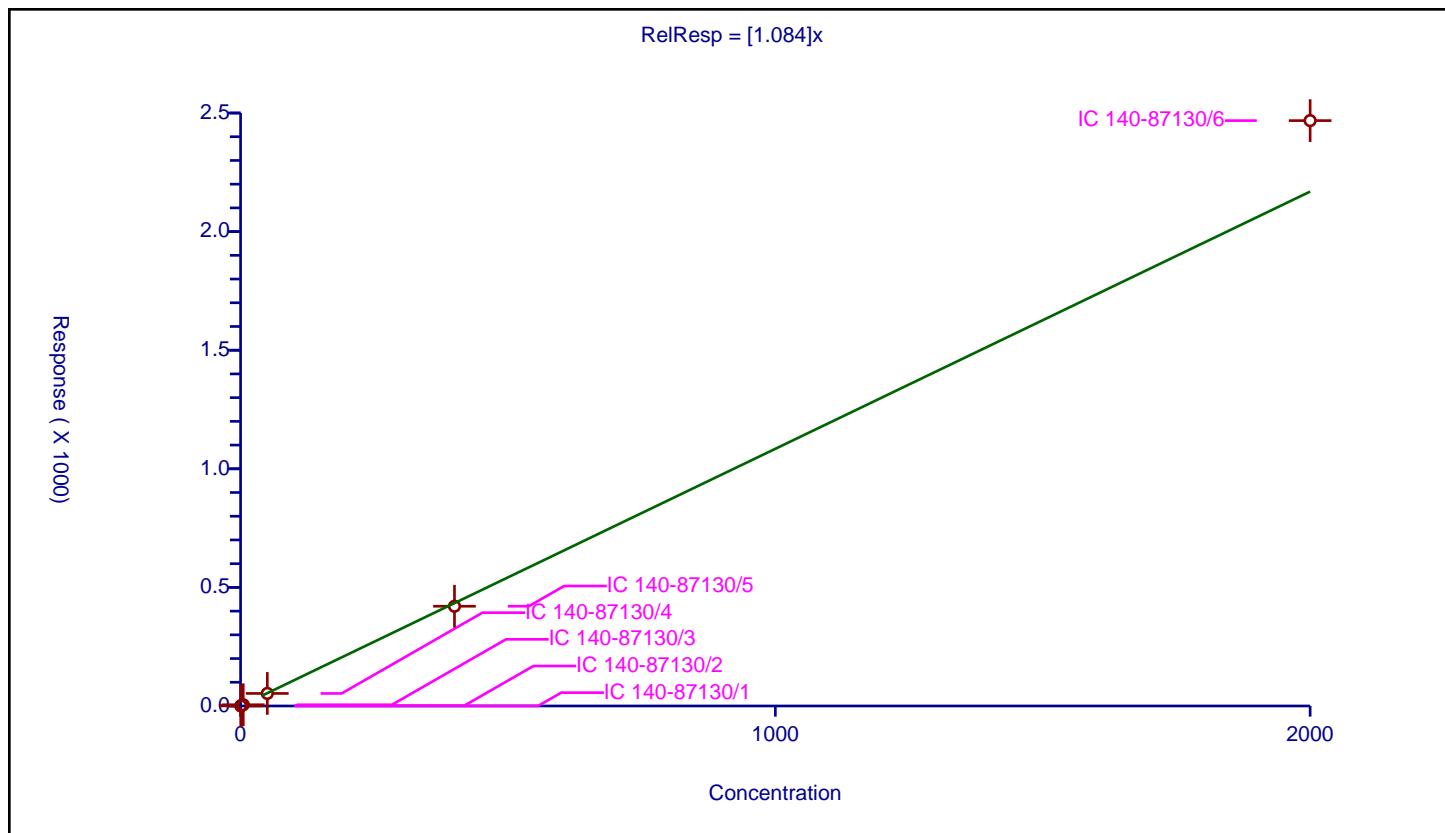
Curve Coefficients

Intercept: 0
Slope: 1.084

Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.525011	100.0	14507892.0	1.050022	Y
2	IC 140-87130/2	1.0	1.076125	100.0	13255798.0	1.076125	Y
3	IC 140-87130/3	5.0	5.187546	100.0	13114910.0	1.037509	Y
4	IC 140-87130/4	50.0	52.845707	100.0	13535671.0	1.056914	Y
5	IC 140-87130/5	400.0	420.536977	100.0	14730805.0	1.051342	Y
6	IC 140-87130/6	2000.0	2467.944026	100.0	15552321.0	1.233972	Y



Calibration

/ PCB-39

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

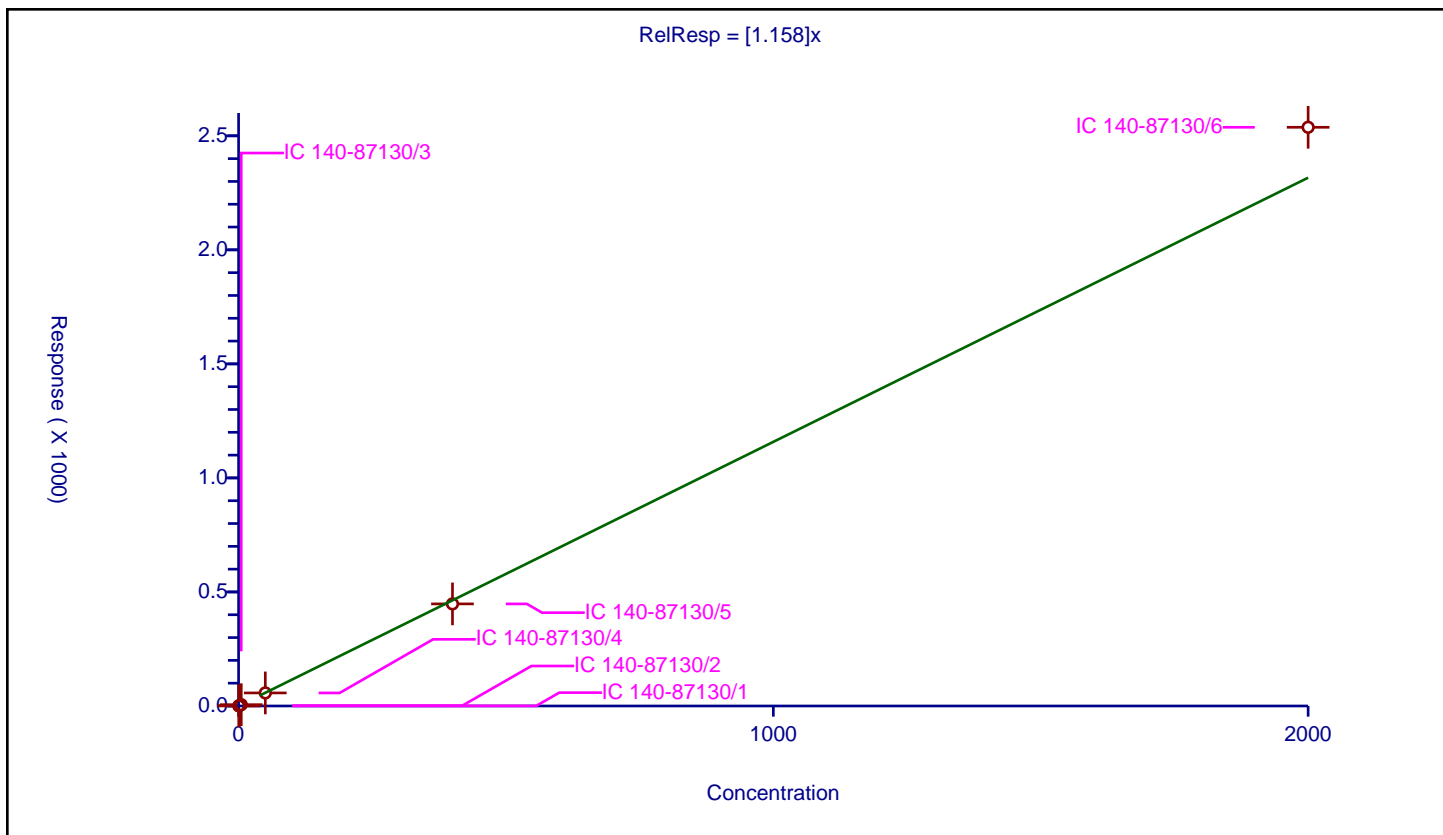
Curve Coefficients

Intercept: 0
 Slope: 1.158

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559309	100.0	14507892.0	1.118619	Y
2	IC 140-87130/2	1.0	1.137834	100.0	13255798.0	1.137834	Y
3	IC 140-87130/3	5.0	5.796189	100.0	13114910.0	1.159238	Y
4	IC 140-87130/4	50.0	57.27255	100.0	13535671.0	1.145451	Y
5	IC 140-87130/5	400.0	447.593434	100.0	14730805.0	1.118984	Y
6	IC 140-87130/6	2000.0	2537.463514	100.0	15552321.0	1.268732	Y



Calibration

/ PCB-4

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

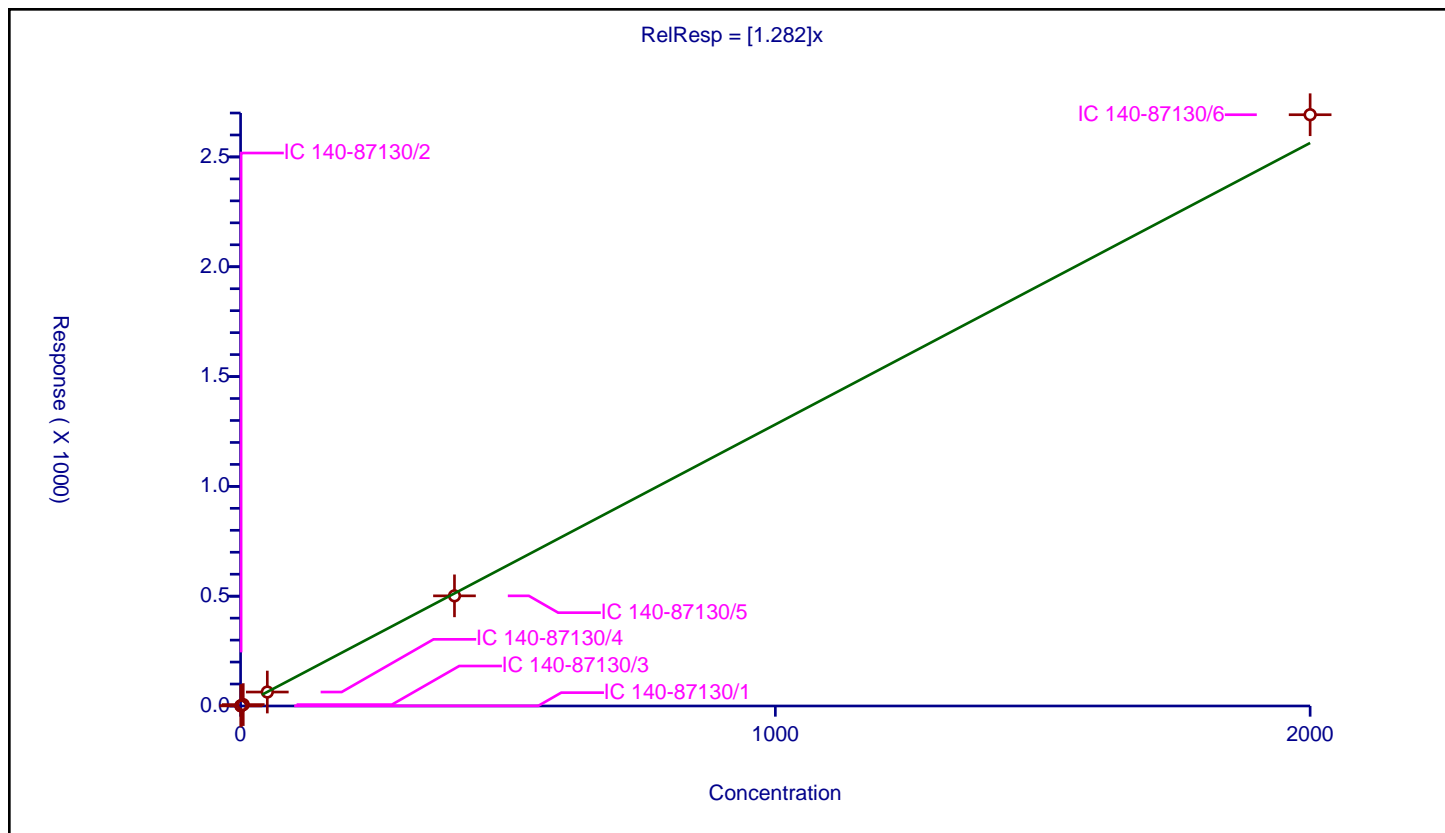
Curve Coefficients

Intercept: 0
Slope: 1.282

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.616036	100.0	5904521.0	1.232073	Y
2	IC 140-87130/2	1.0	1.309647	100.0	5442766.0	1.309647	Y
3	IC 140-87130/3	5.0	6.390433	100.0	5279032.0	1.278087	Y
4	IC 140-87130/4	50.0	63.568468	100.0	5474214.0	1.271369	Y
5	IC 140-87130/5	400.0	501.47876	100.0	5561618.0	1.253697	Y
6	IC 140-87130/6	2000.0	2692.23998	100.0	5672202.0	1.34612	Y



Calibration

/ PCB-40

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

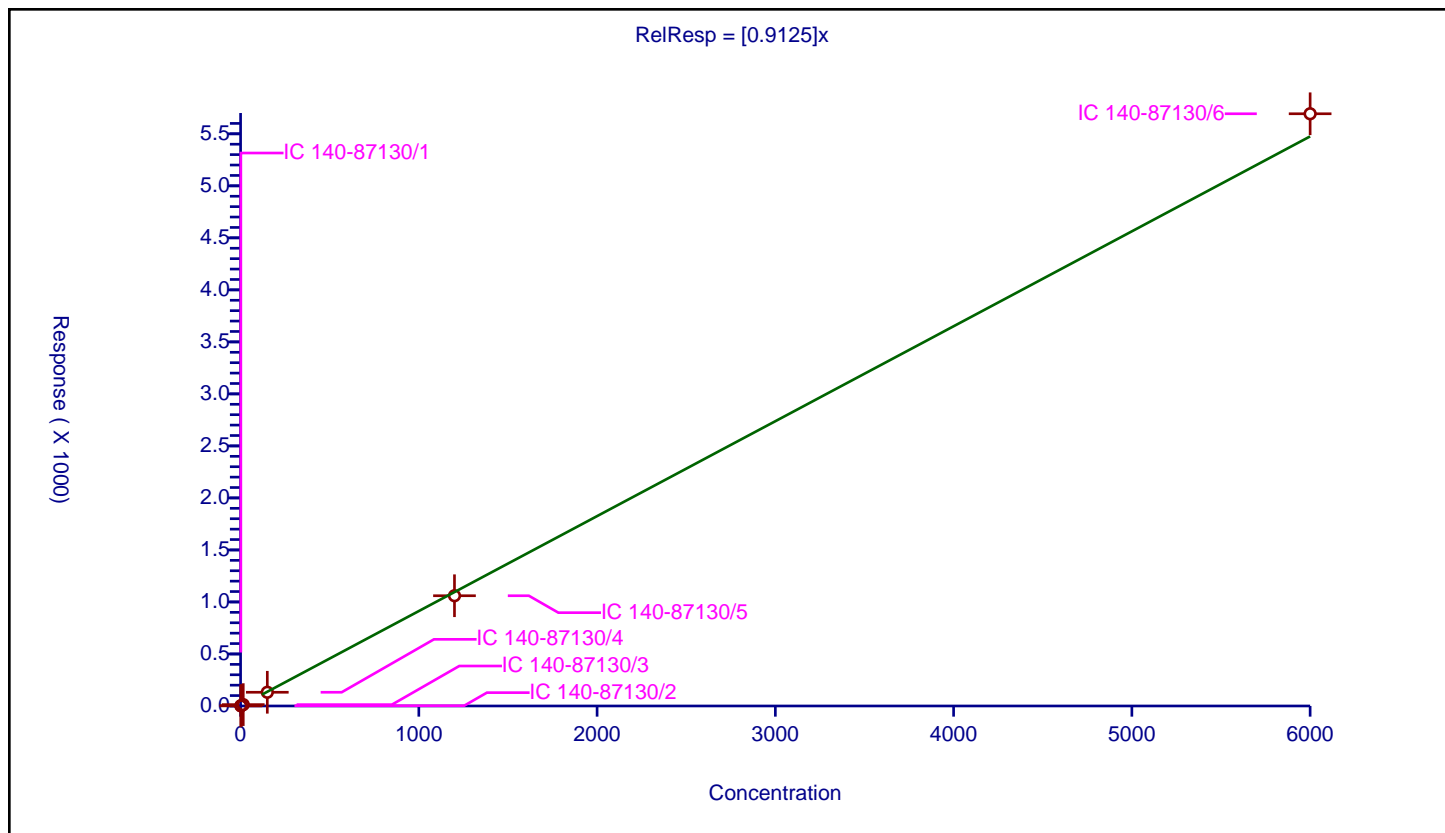
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-40/41/71

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

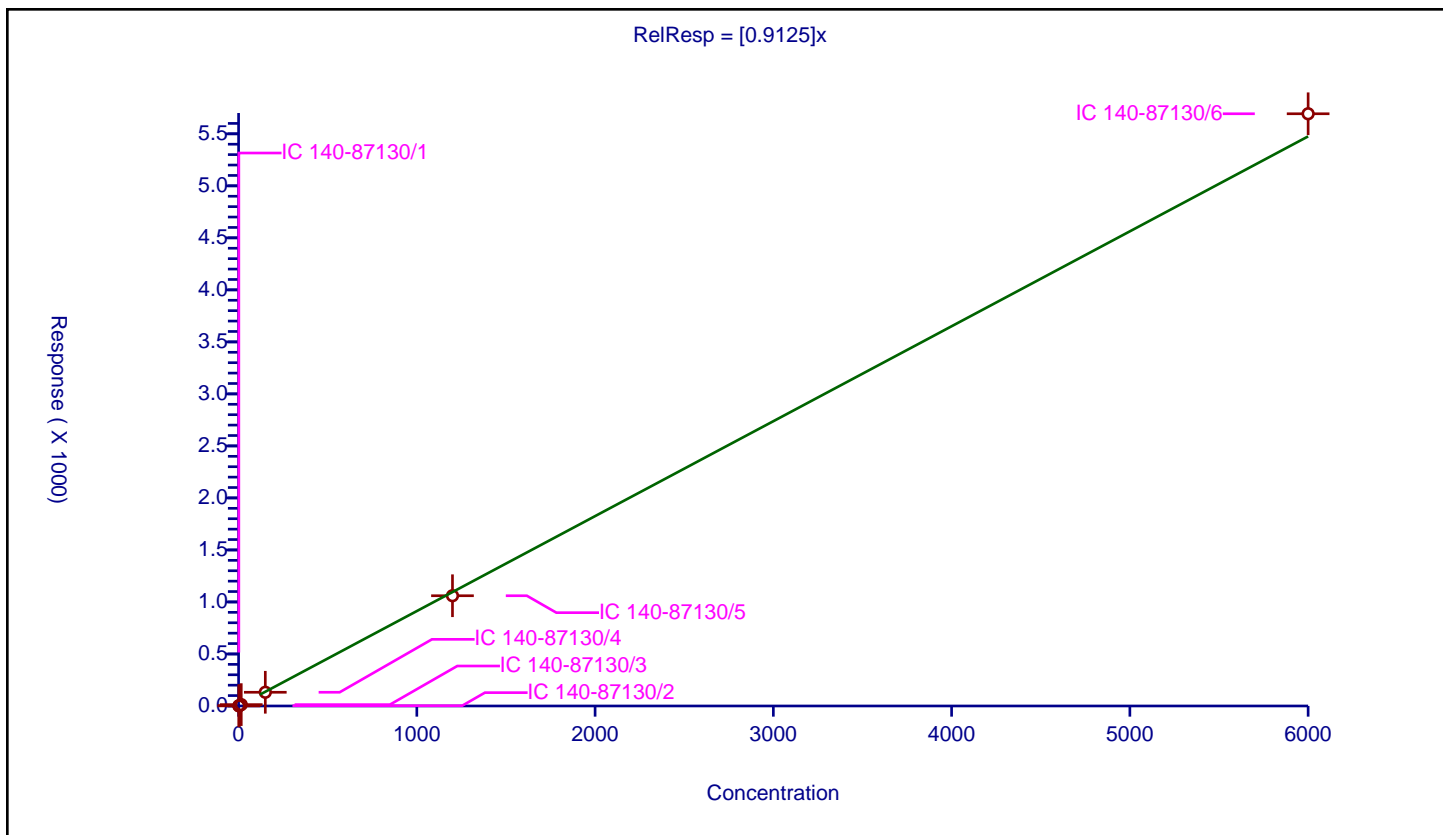
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-41

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

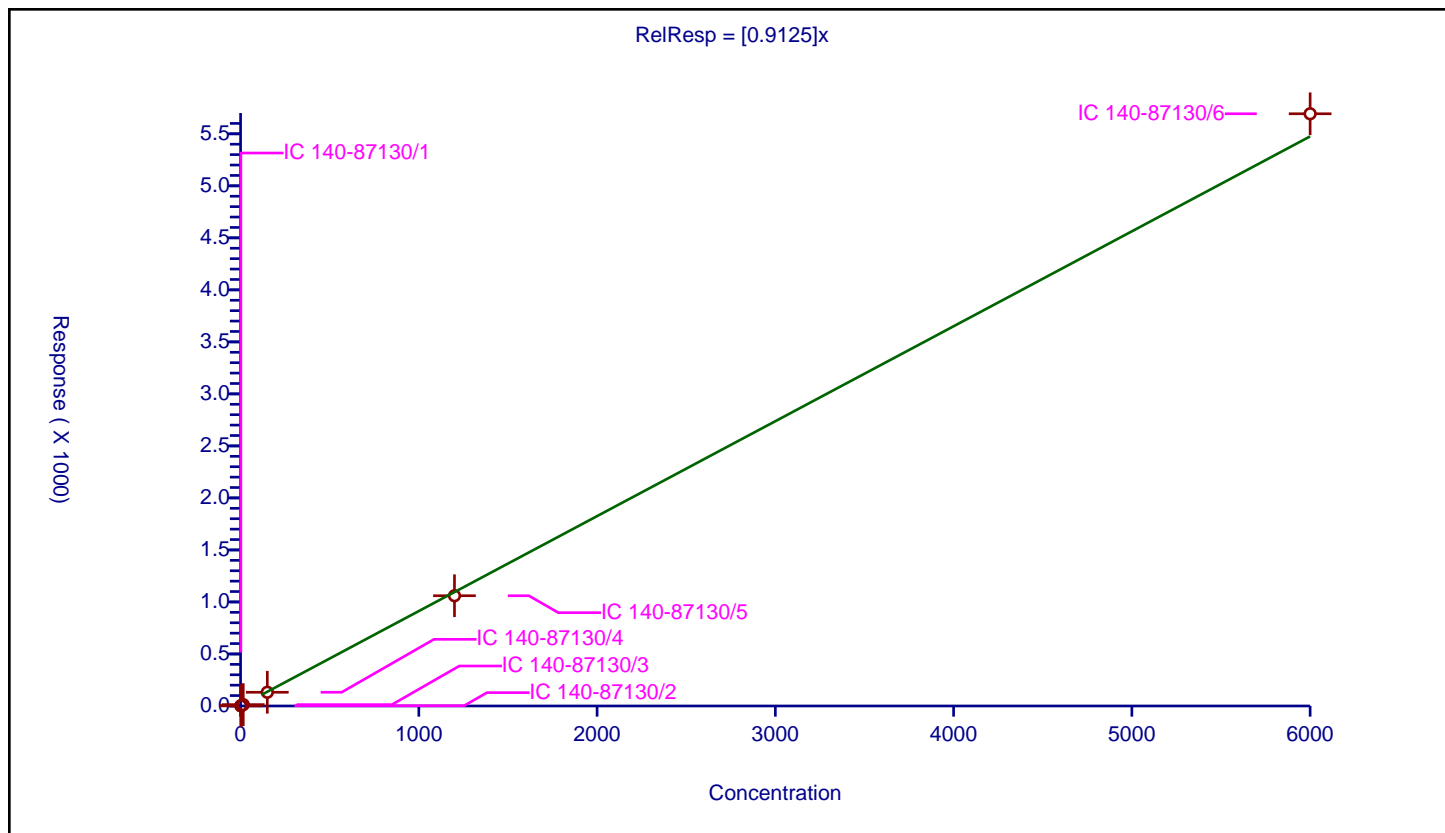
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-42

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

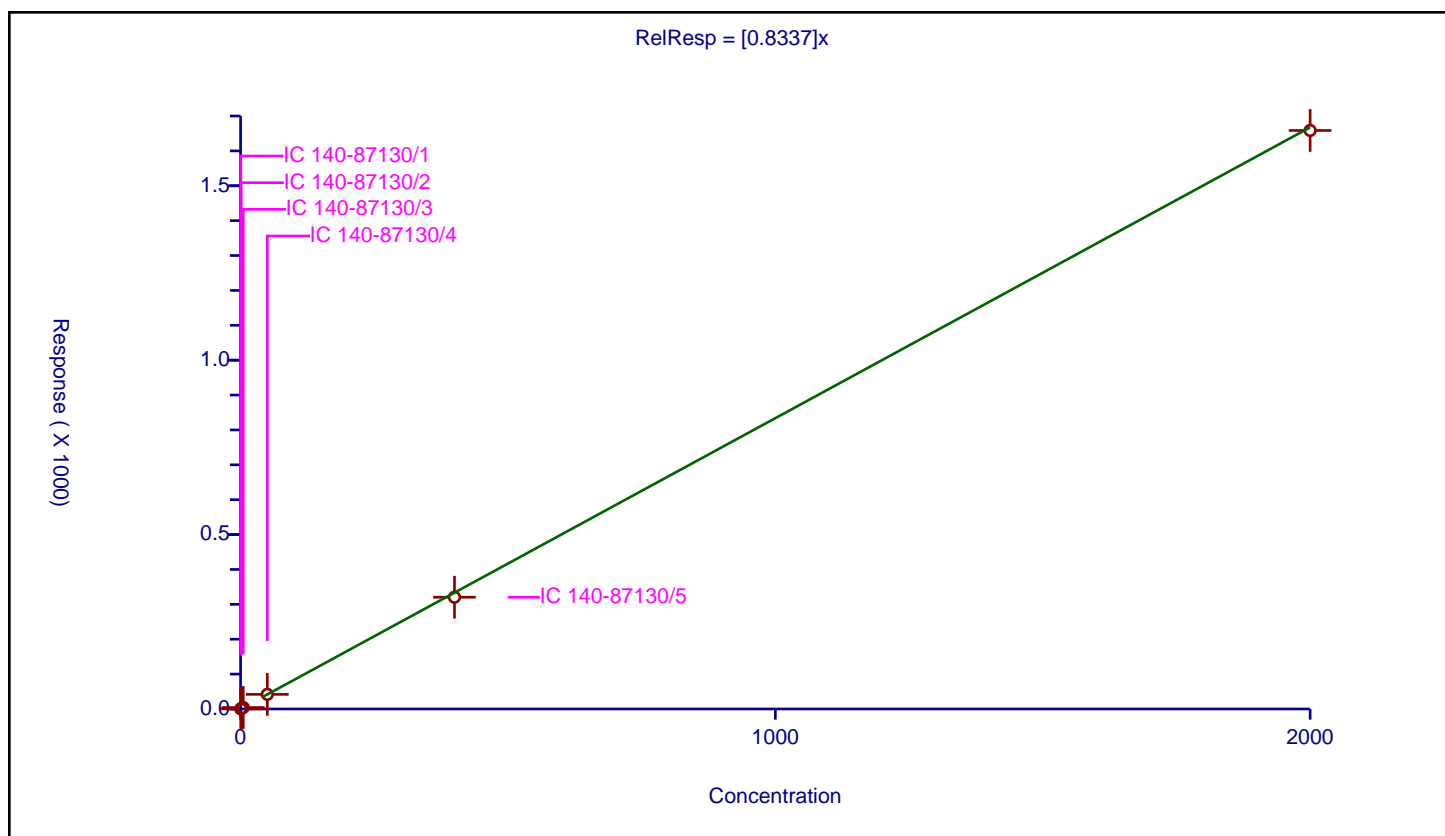
Curve Coefficients

Intercept: 0
Slope: 0.8337

Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41986	100.0	10352263.0	0.83972	Y
2	IC 140-87130/2	1.0	0.846767	100.0	9378026.0	0.846767	Y
3	IC 140-87130/3	5.0	4.235898	100.0	9411321.0	0.84718	Y
4	IC 140-87130/4	50.0	41.924978	100.0	9689577.0	0.8385	Y
5	IC 140-87130/5	400.0	320.413661	100.0	10335461.0	0.801034	Y
6	IC 140-87130/6	2000.0	1658.557826	100.0	11264701.0	0.829279	Y



Calibration

/ PCB-43

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

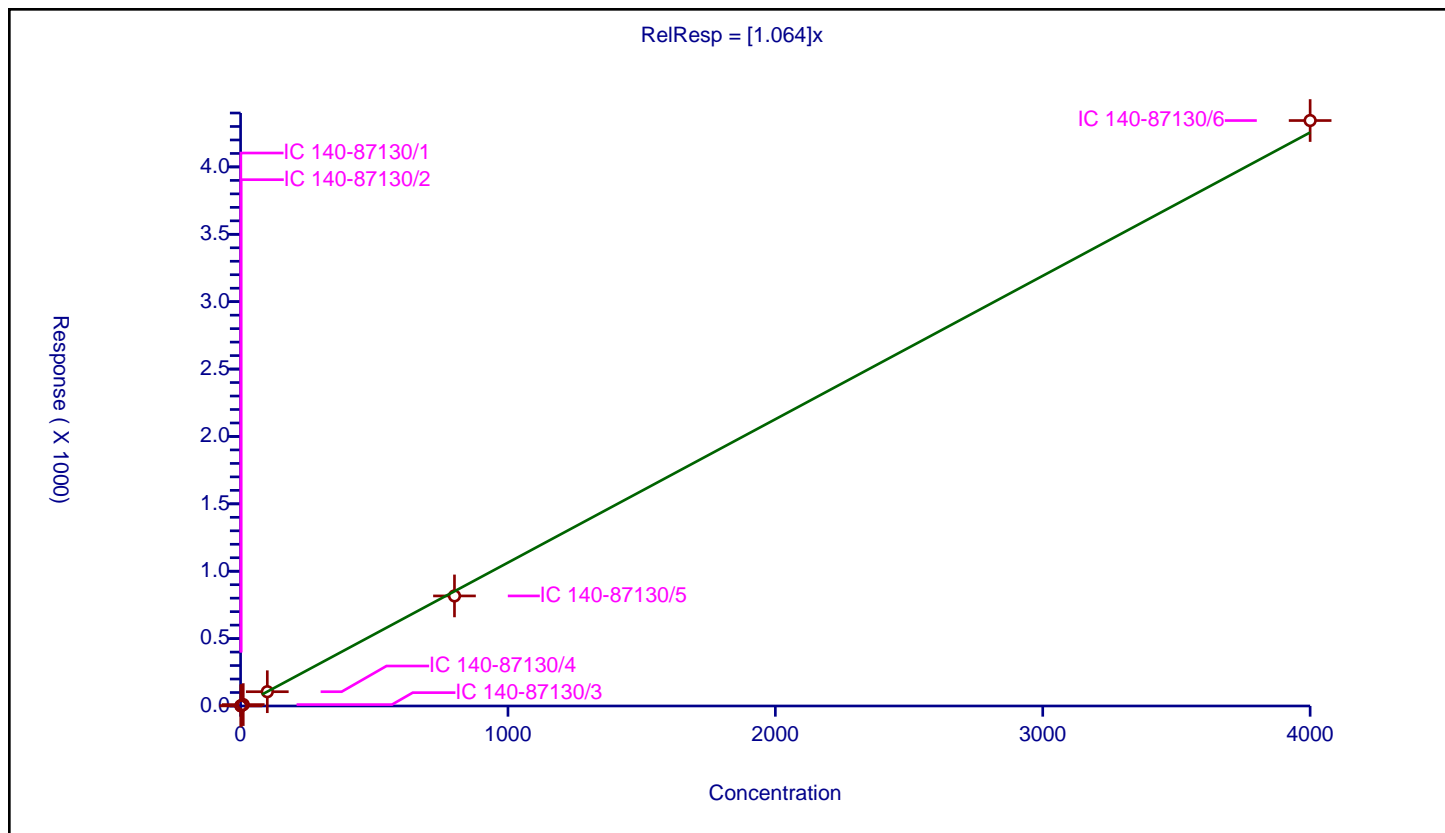
Curve Coefficients

Intercept: 0
Slope: 1.064

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Calibration

/ PCB-43/73

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

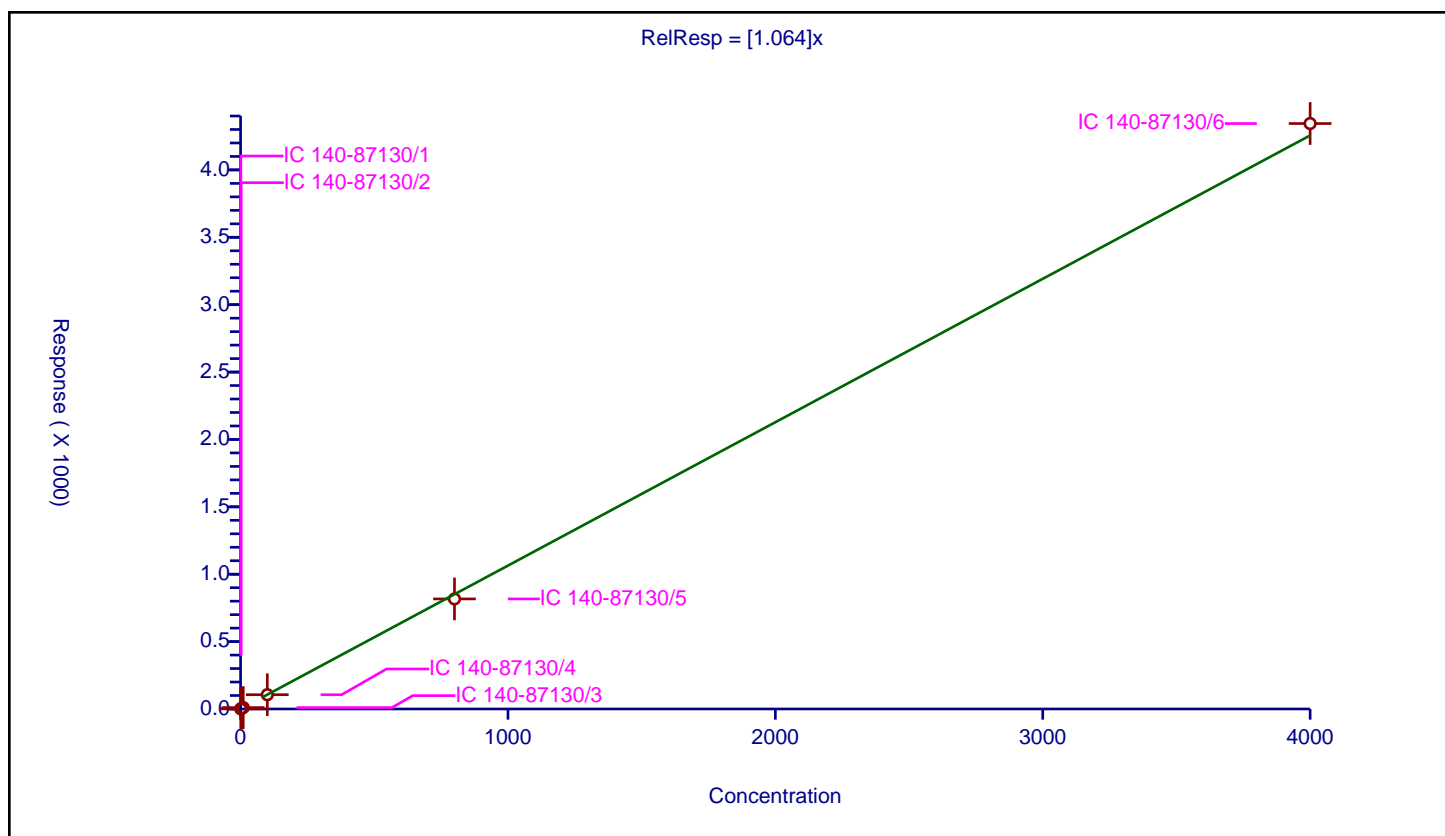
Curve Coefficients

Intercept: 0
Slope: 1.064

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Calibration

/ PCB-44

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

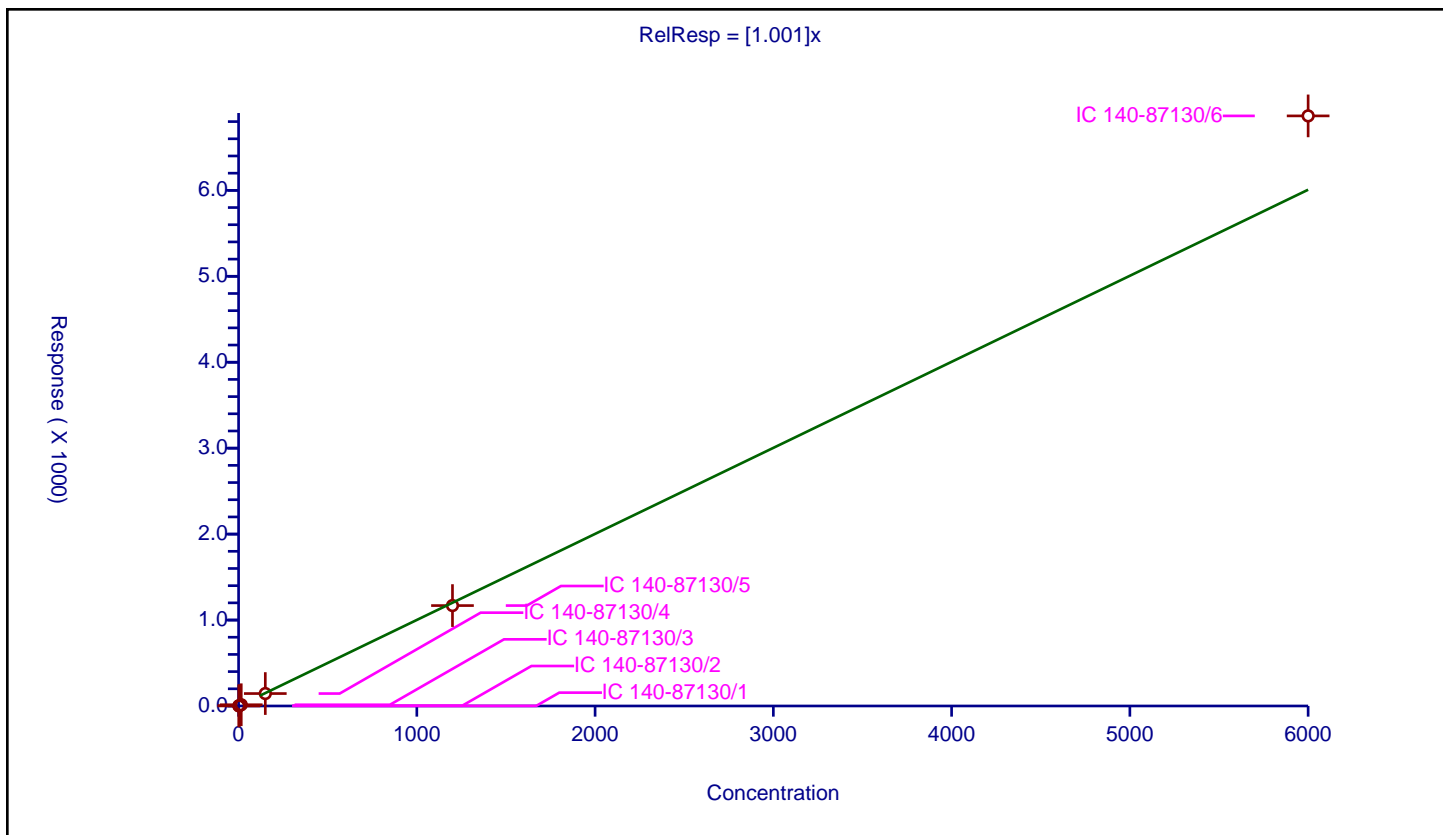
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-44/47/65

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

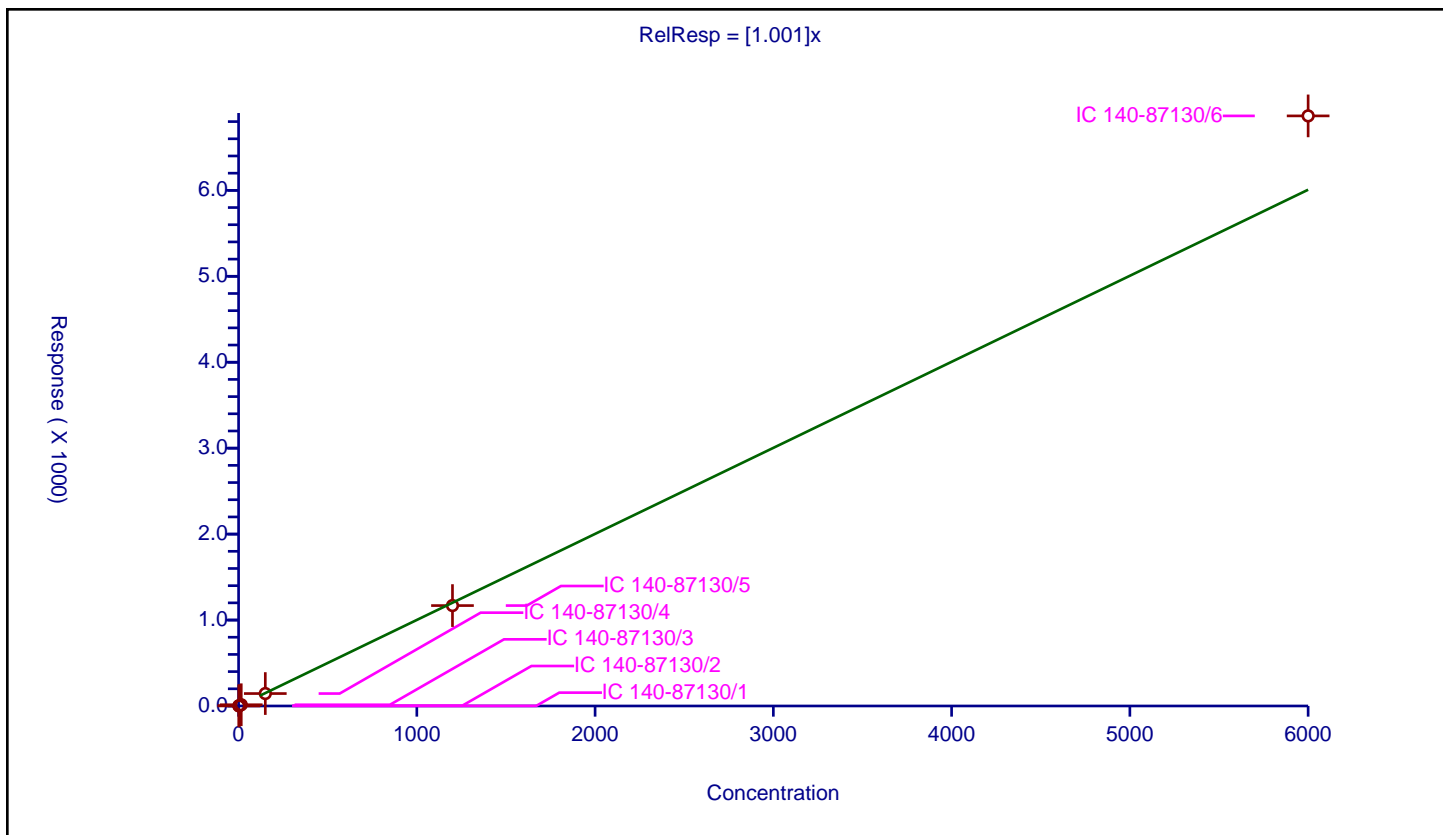
Curve Coefficients

Intercept: 0
Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-45

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

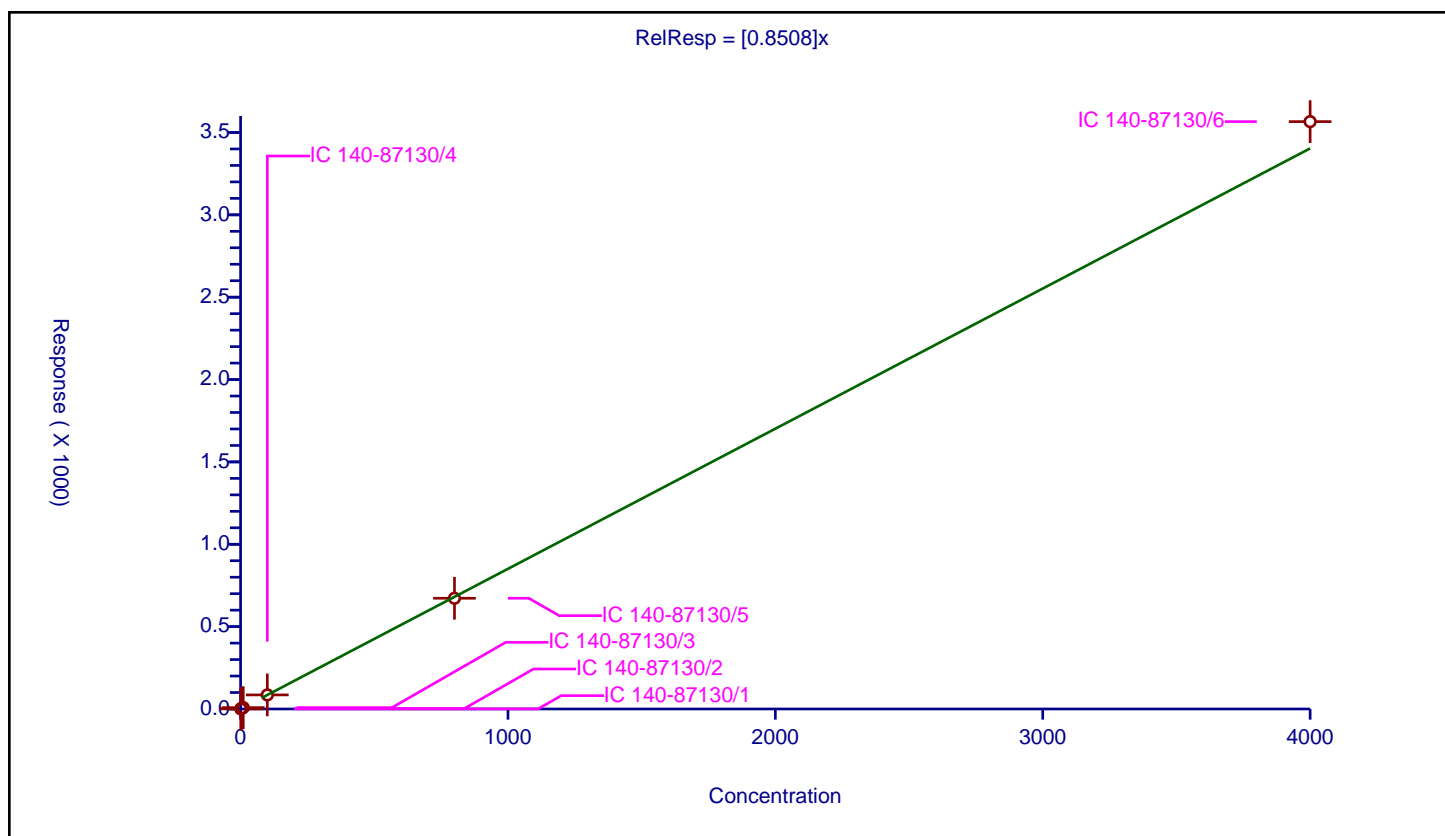
Curve Coefficients

Intercept: 0
 Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Calibration

/ PCB-45/51

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

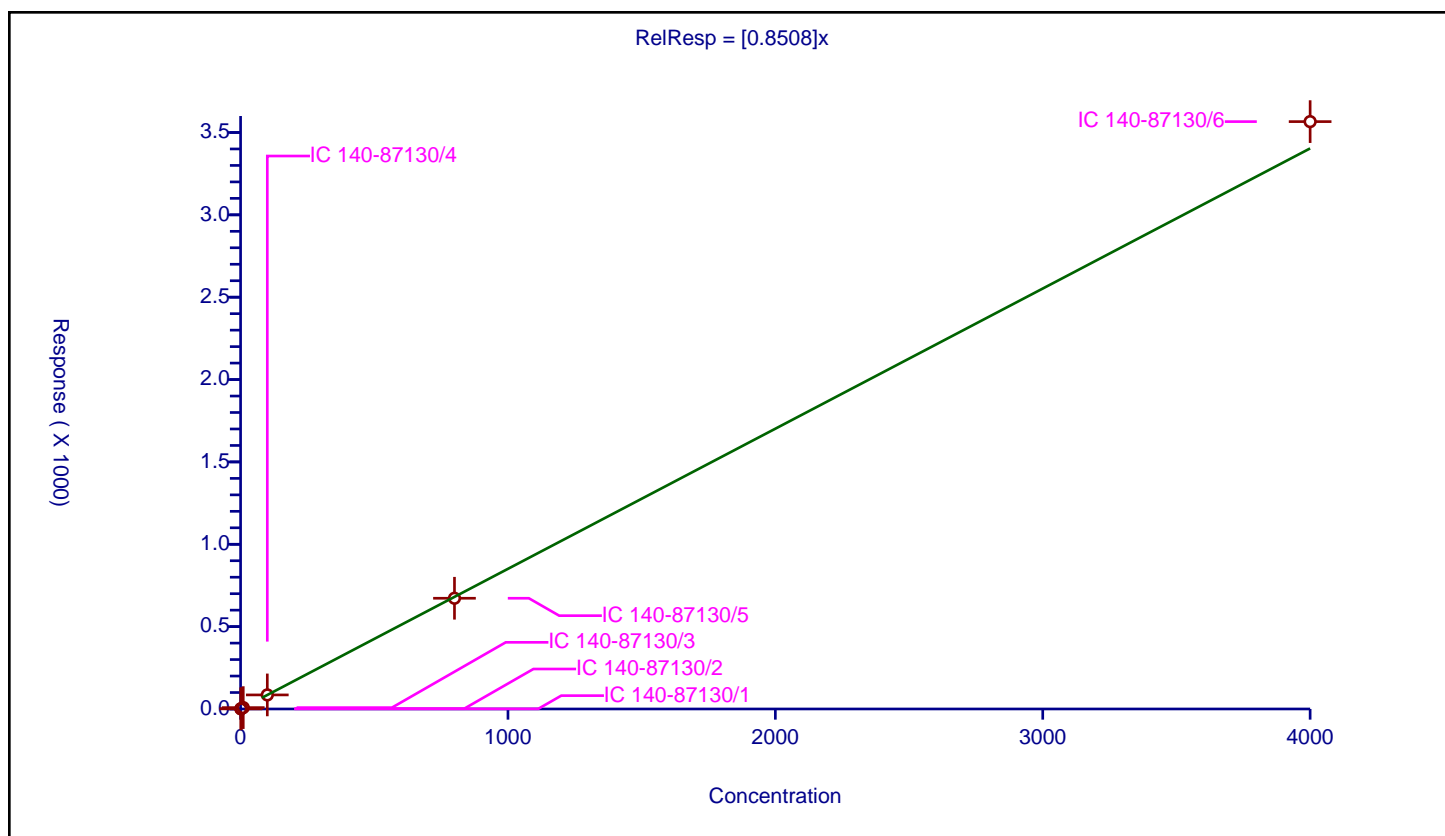
Curve Coefficients

Intercept: 0
 Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Calibration

/ PCB-46

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

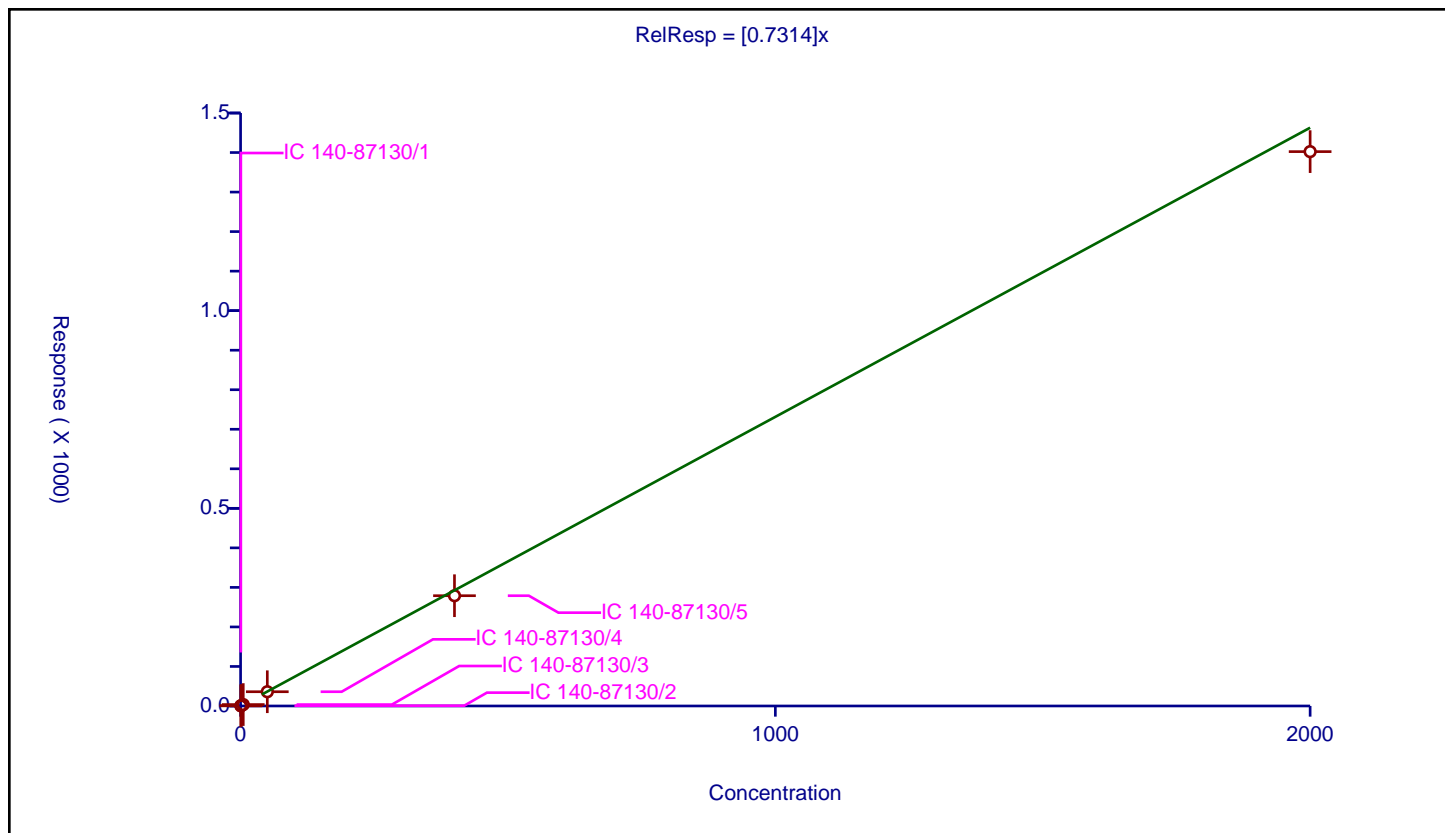
Curve Coefficients

Intercept: 0
Slope: 0.7314

Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.421087	100.0	10352263.0	0.842173	Y
2	IC 140-87130/2	1.0	0.701907	100.0	9378026.0	0.701907	Y
3	IC 140-87130/3	5.0	3.620894	100.0	9411321.0	0.724179	Y
4	IC 140-87130/4	50.0	36.07884	100.0	9689577.0	0.721577	Y
5	IC 140-87130/5	400.0	278.986162	100.0	10335461.0	0.697465	Y
6	IC 140-87130/6	2000.0	1402.339911	100.0	11264701.0	0.70117	Y



Calibration

/ PCB-47

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

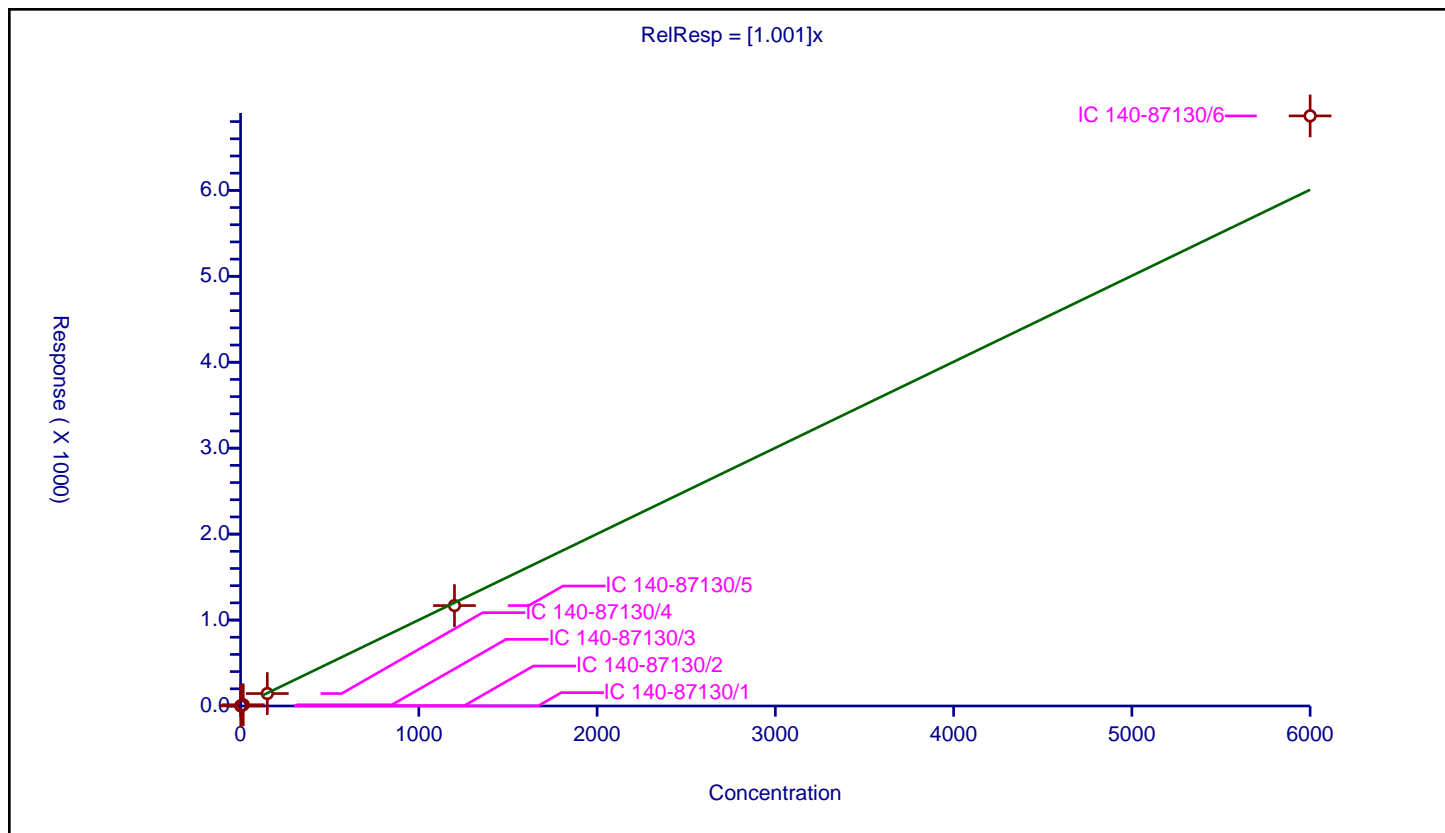
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-48

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

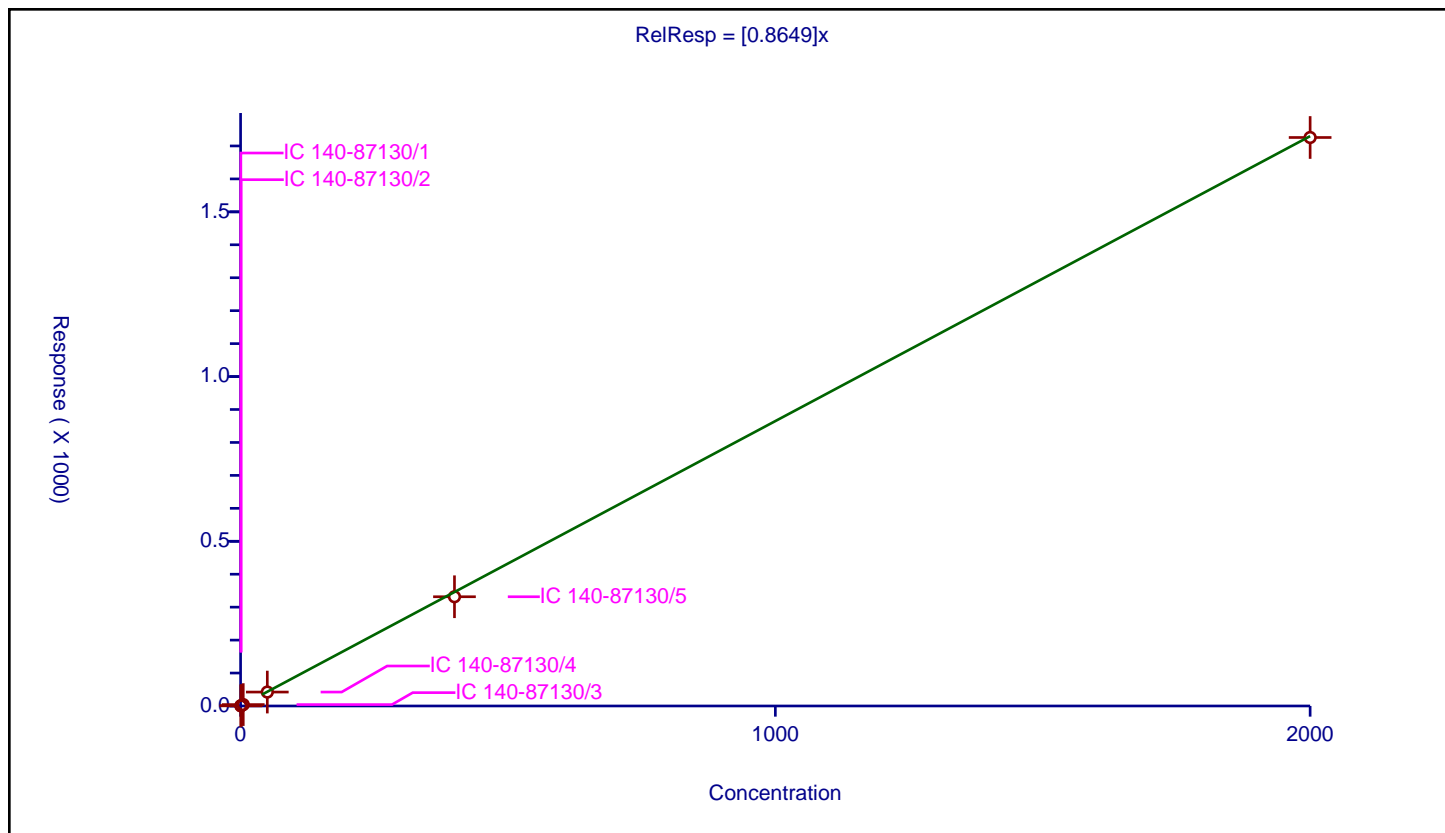
Curve Coefficients

Intercept: 0
 Slope: 0.8649

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.451447	100.0	10352263.0	0.902894	Y
2	IC 140-87130/2	1.0	0.895178	100.0	9378026.0	0.895178	Y
3	IC 140-87130/3	5.0	4.269263	100.0	9411321.0	0.853853	Y
4	IC 140-87130/4	50.0	42.27265	100.0	9689577.0	0.845453	Y
5	IC 140-87130/5	400.0	331.59593	100.0	10335461.0	0.82899	Y
6	IC 140-87130/6	2000.0	1725.660699	100.0	11264701.0	0.86283	Y



Calibration

/ PCB-49

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

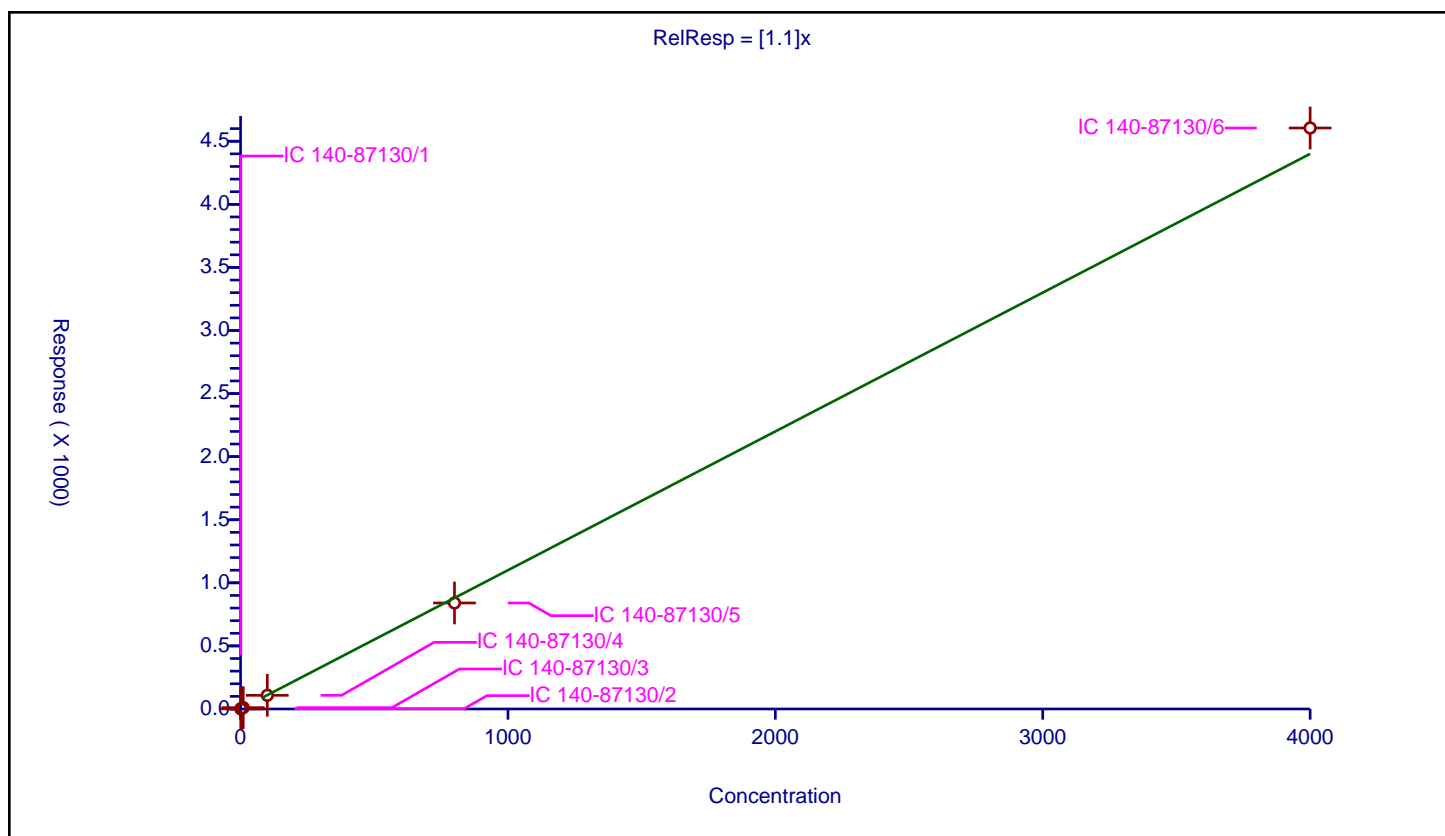
Curve Coefficients

Intercept: 0
 Slope: 1.1

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



Calibration

/ PCB-49/69

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

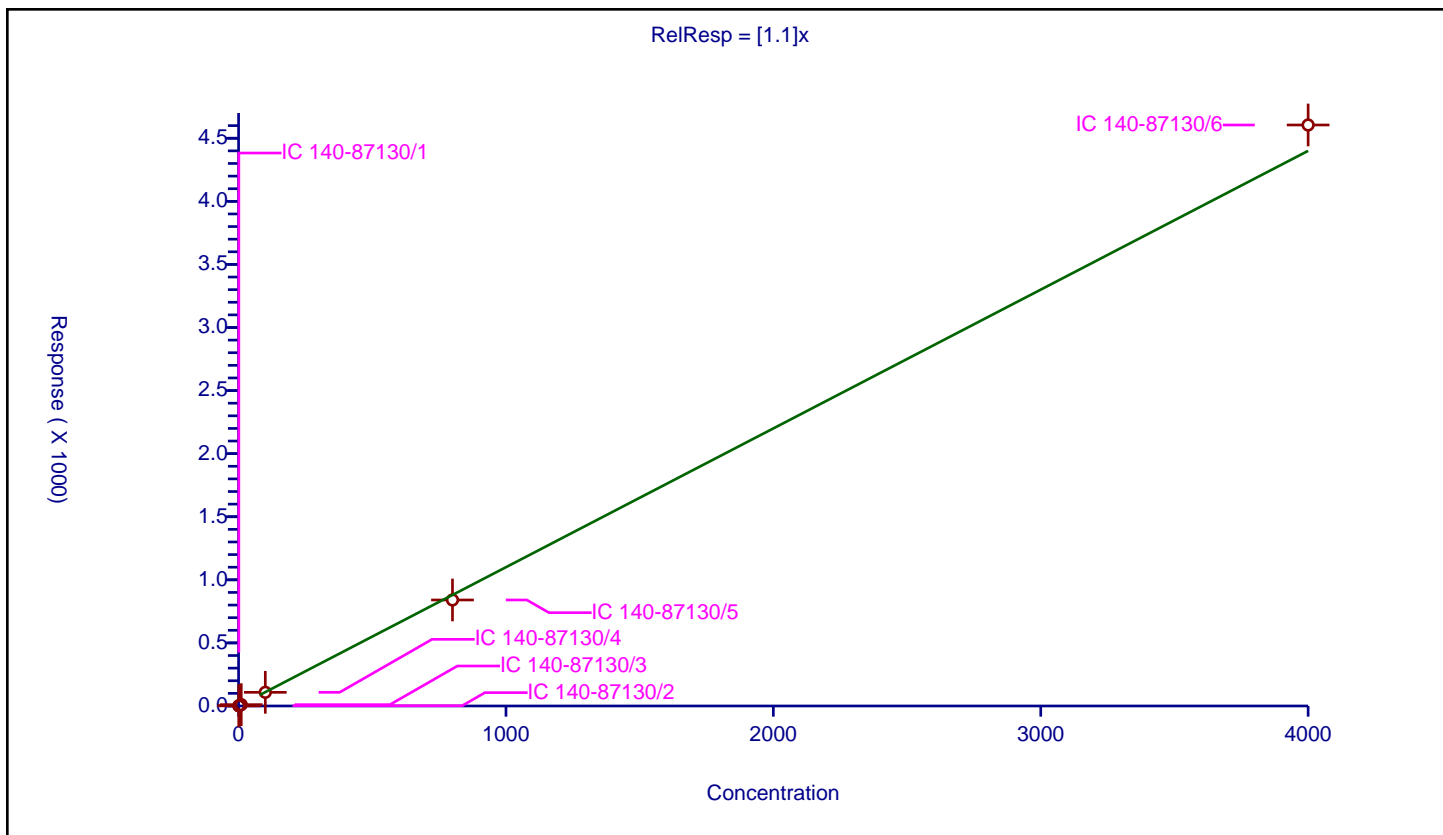
Curve Coefficients

Intercept: 0
Slope: 1.1

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



Calibration

/ PCB-5

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

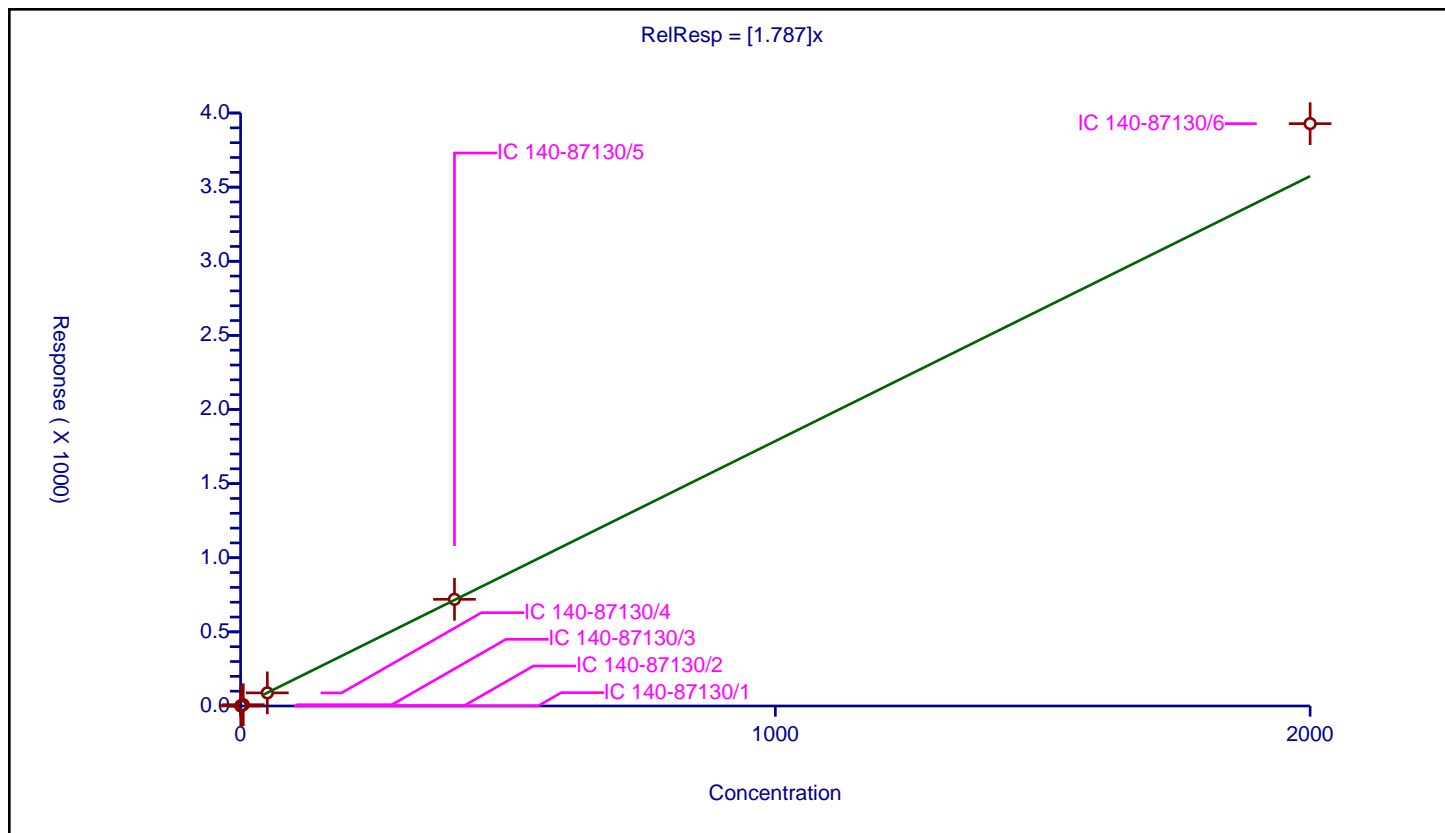
Curve Coefficients

Intercept: 0
Slope: 1.787

Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.872535	100.0	5904521.0	1.74507	Y
2	IC 140-87130/2	1.0	1.710031	100.0	5442766.0	1.710031	Y
3	IC 140-87130/3	5.0	8.665964	100.0	5279032.0	1.733193	Y
4	IC 140-87130/4	50.0	88.499354	100.0	5474214.0	1.769987	Y
5	IC 140-87130/5	400.0	719.584445	100.0	5561618.0	1.798961	Y
6	IC 140-87130/6	2000.0	3928.252502	100.0	5672202.0	1.964126	Y



Calibration

/ PCB-50

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

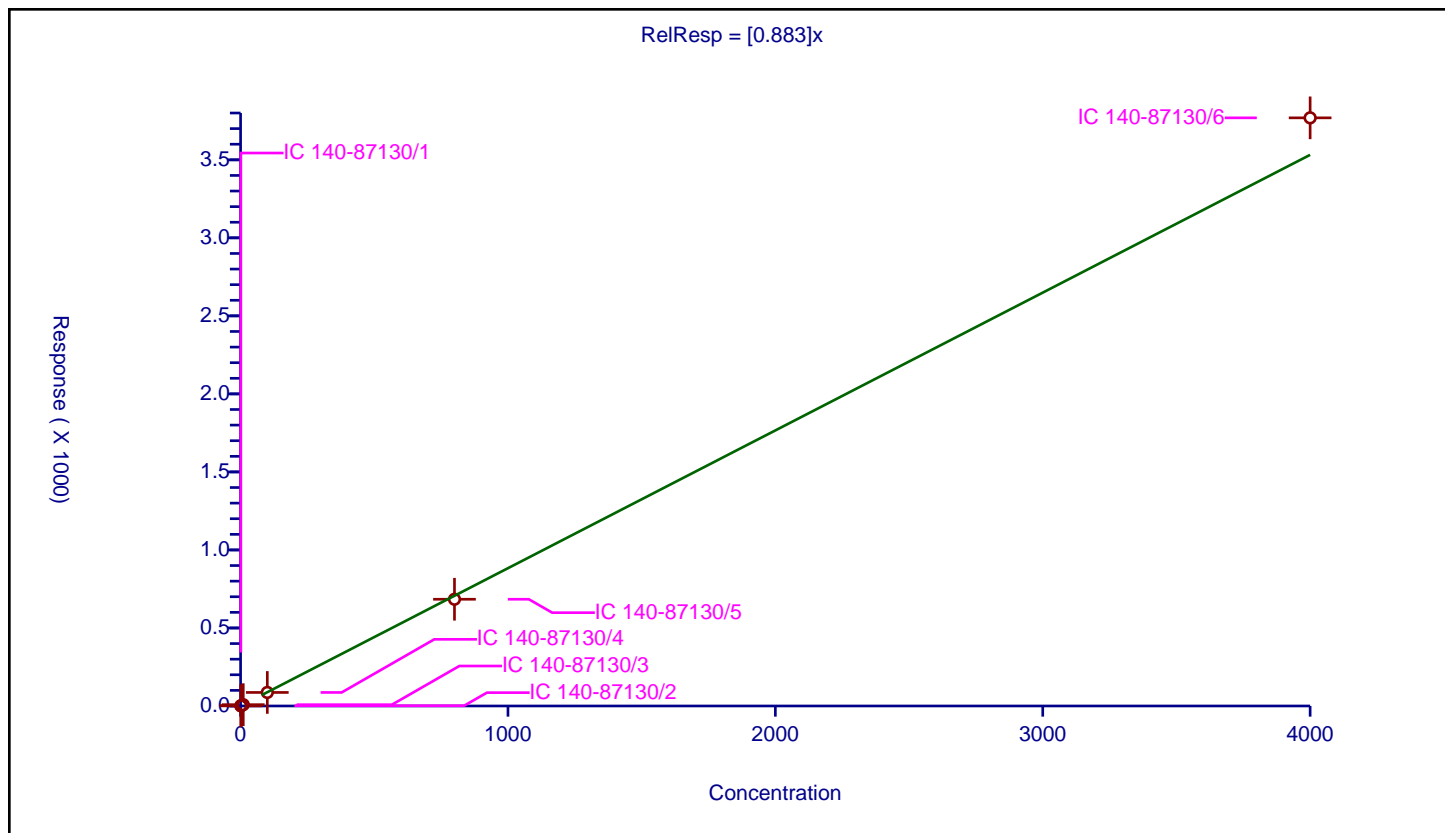
Curve Coefficients

Intercept: 0
 Slope: 0.883

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Calibration

/ PCB-50/53

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

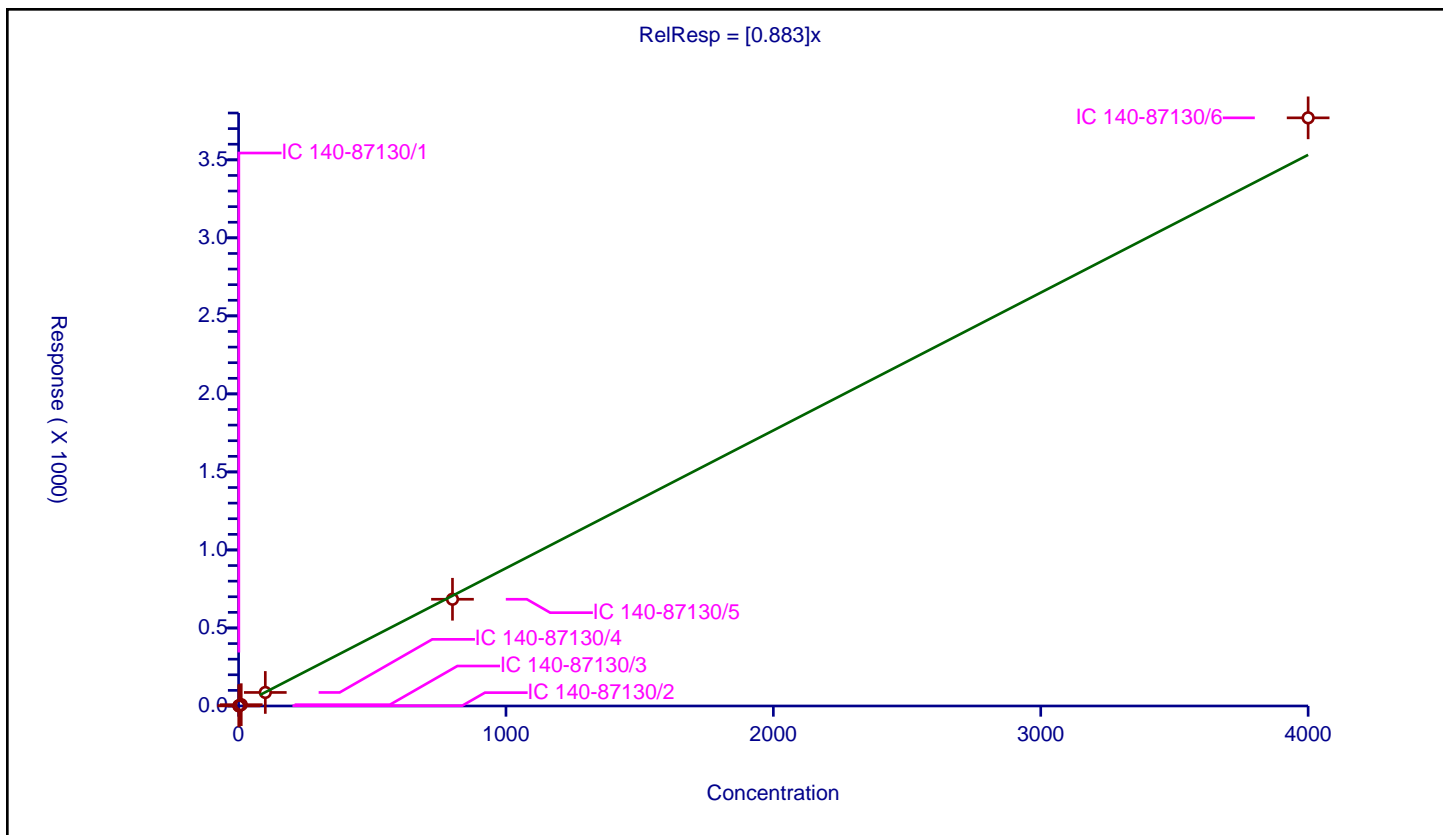
Curve Coefficients

Intercept: 0
 Slope: 0.883

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Calibration

/ PCB-51

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

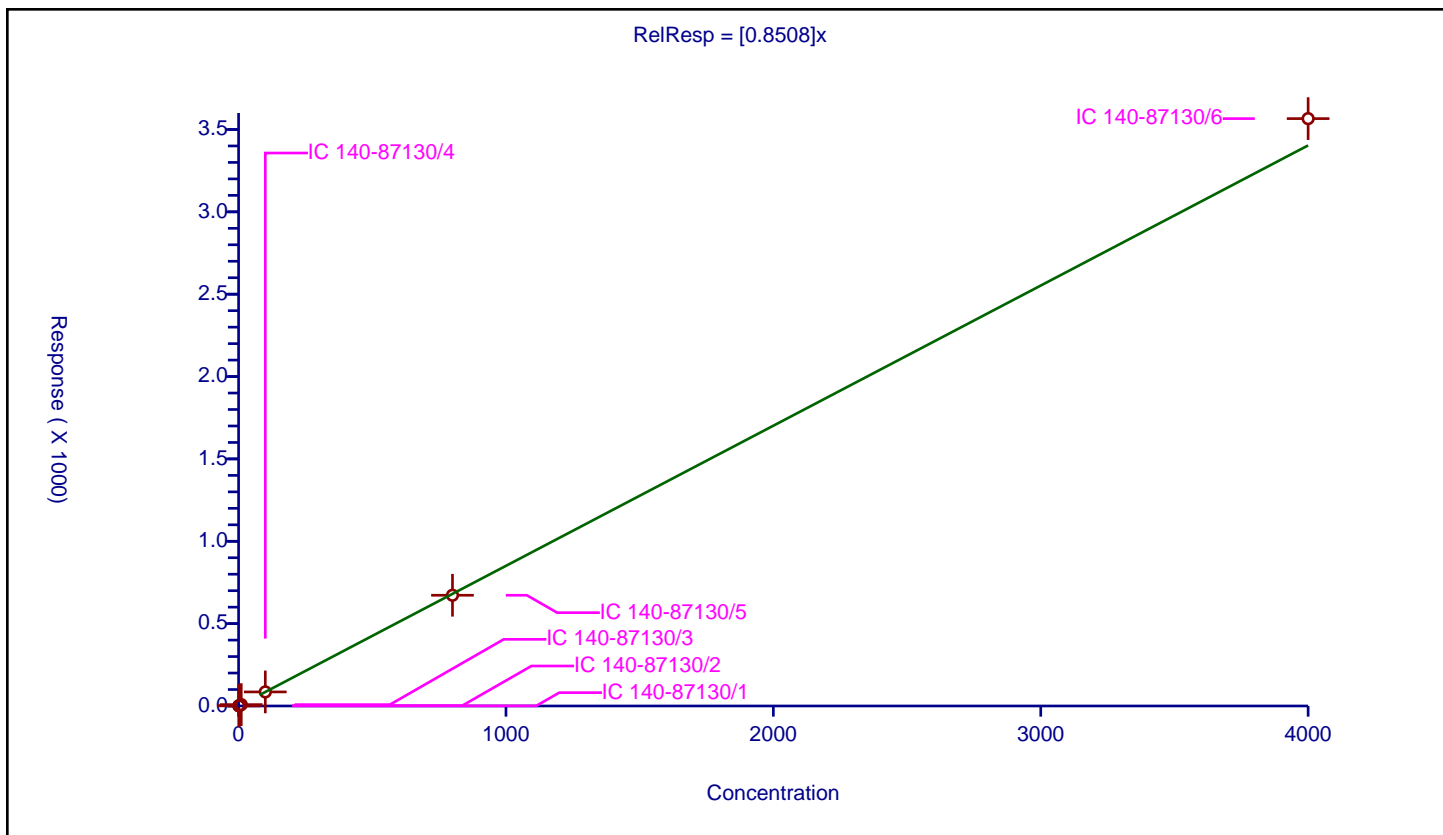
Curve Coefficients

Intercept: 0
Slope: 0.8508

Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Calibration

/ PCB-52

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

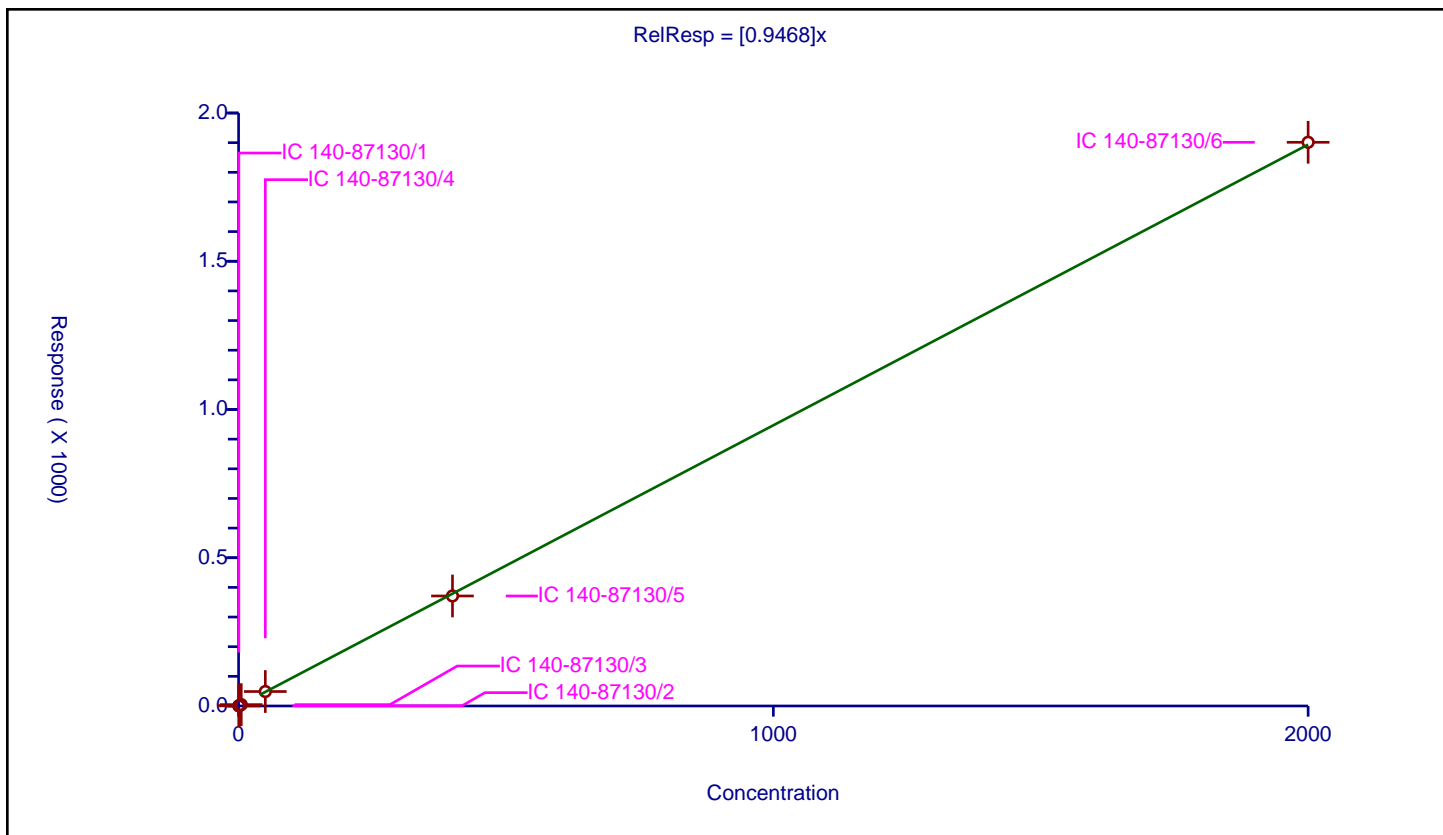
Curve Coefficients

Intercept: 0
 Slope: 0.9468

Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.47861	100.0	10352263.0	0.957221	Y
2	IC 140-87130/2	1.0	0.935517	100.0	9378026.0	0.935517	Y
3	IC 140-87130/3	5.0	4.673403	100.0	9411321.0	0.934681	Y
4	IC 140-87130/4	50.0	48.750436	100.0	9689577.0	0.975009	Y
5	IC 140-87130/5	400.0	371.091652	100.0	10335461.0	0.927729	Y
6	IC 140-87130/6	2000.0	1901.220503	100.0	11264701.0	0.95061	Y



Calibration

/ PCB-53

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

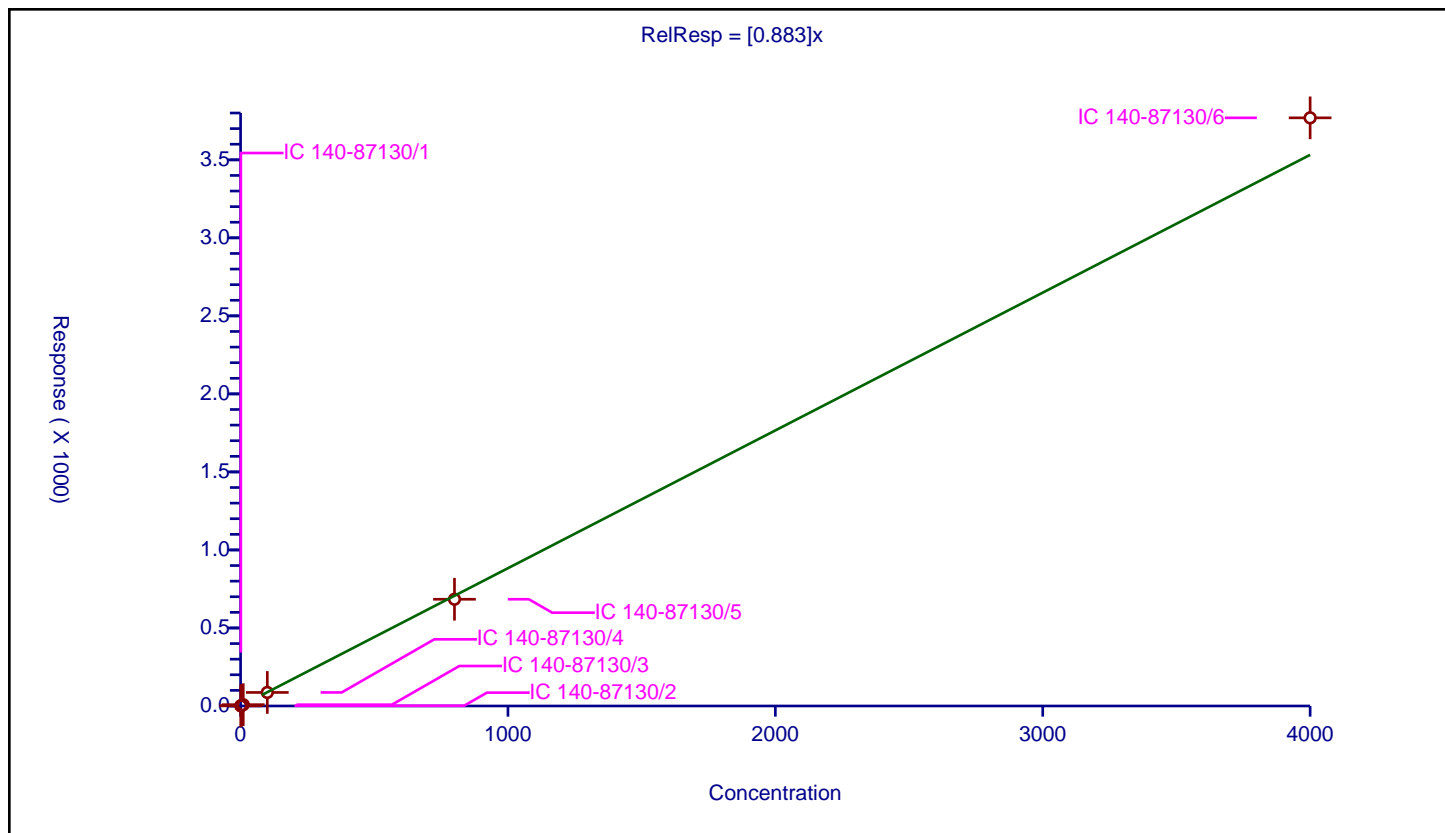
Curve Coefficients

Intercept: 0
 Slope: 0.883

Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



Calibration

/ PCB-54

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

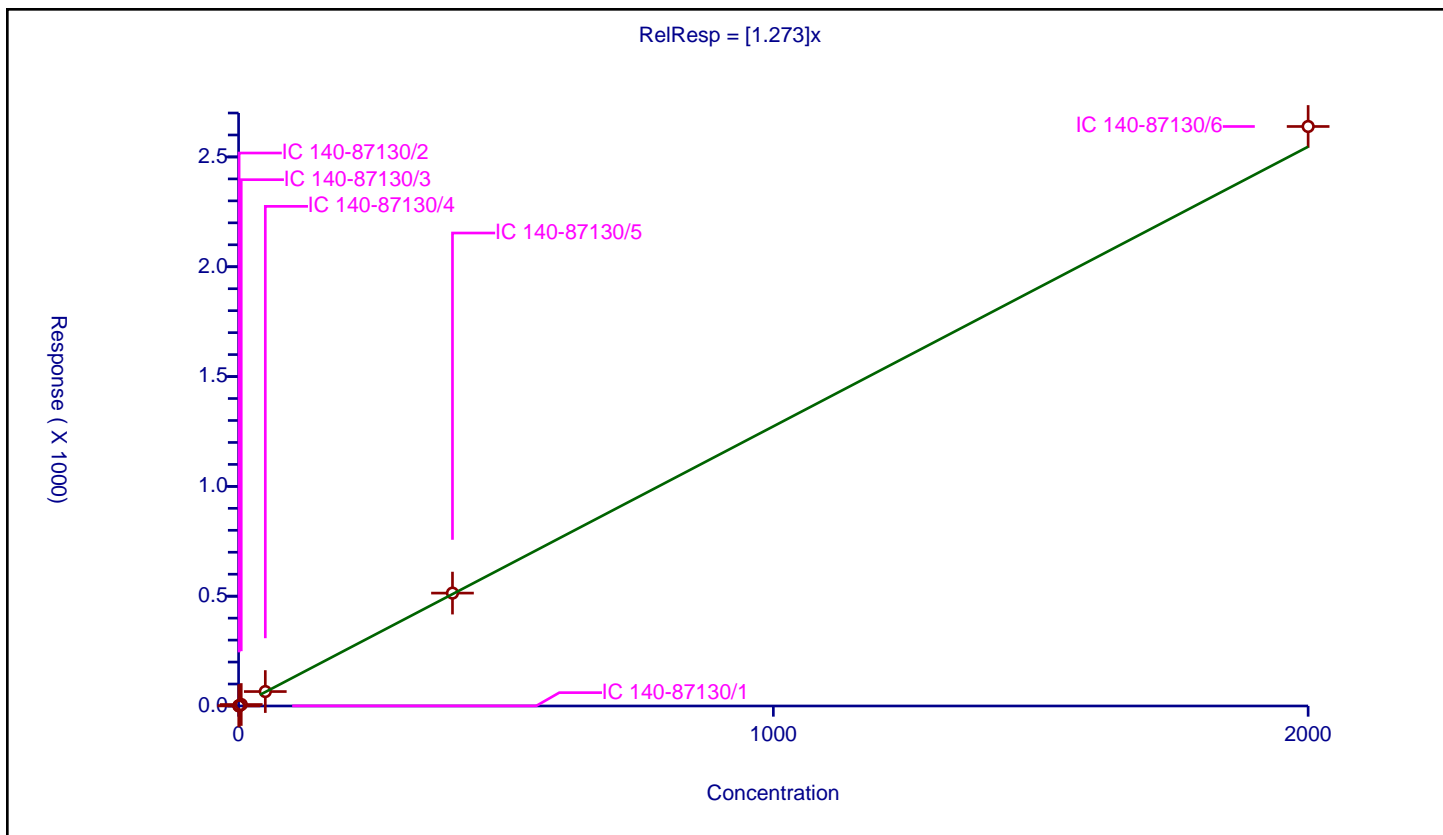
Curve Coefficients

Intercept: 0
Slope: 1.273

Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.527395	100.0	3394991.0	1.054789	Y
2	IC 140-87130/2	1.0	1.324963	100.0	3010951.0	1.324963	Y
3	IC 140-87130/3	5.0	6.698994	100.0	2803421.0	1.339799	Y
4	IC 140-87130/4	50.0	65.800259	100.0	3125781.0	1.316005	Y
5	IC 140-87130/5	400.0	513.98725	100.0	3162909.0	1.284968	Y
6	IC 140-87130/6	2000.0	2638.710193	100.0	3193810.0	1.319355	Y



Calibration

/ PCB-55

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

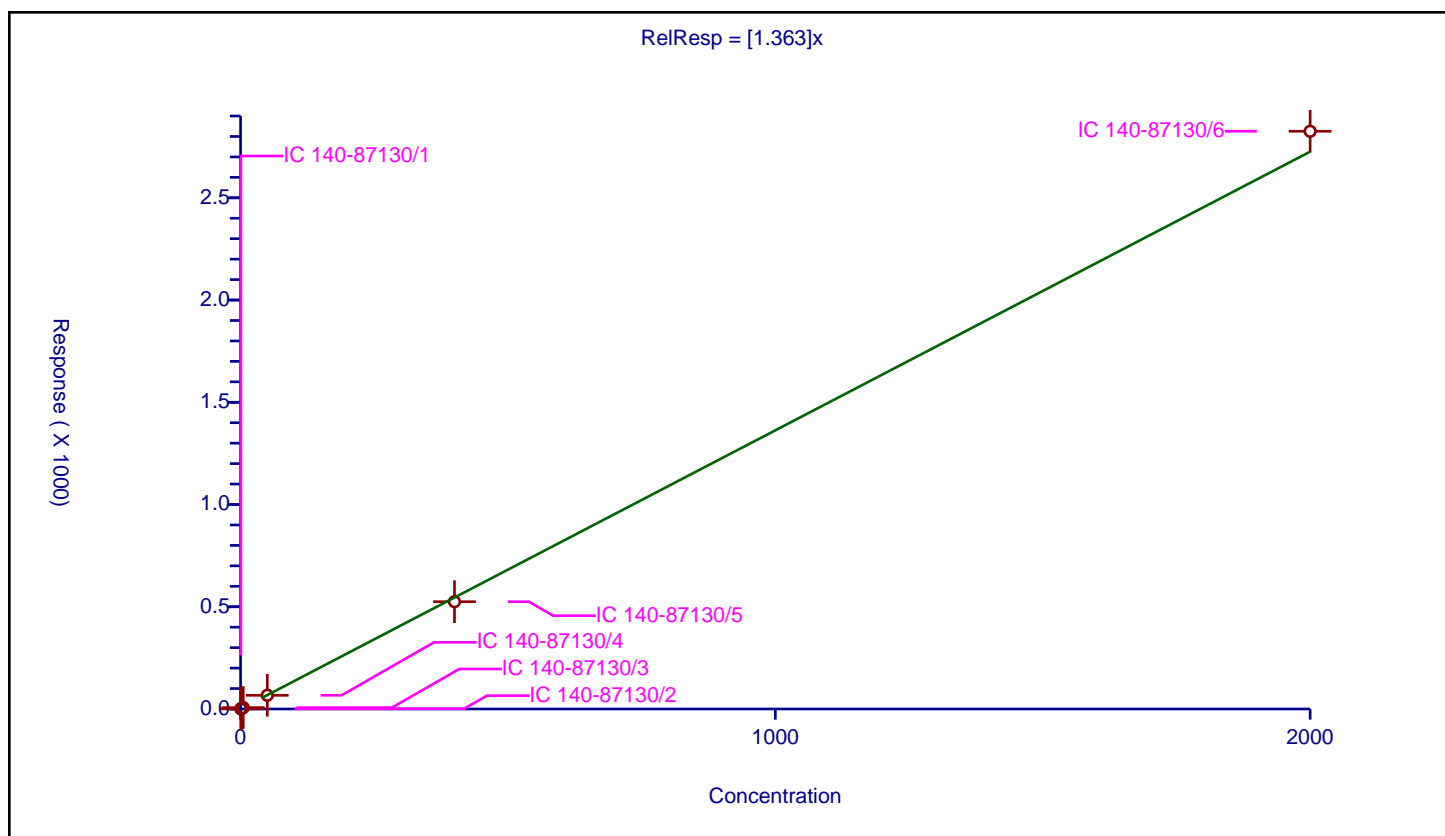
Curve Coefficients

Intercept: 0
Slope: 1.363

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.7503	100.0	10352263.0	1.500599	Y
2	IC 140-87130/2	1.0	1.274383	100.0	9378026.0	1.274383	Y
3	IC 140-87130/3	5.0	6.694958	100.0	9411321.0	1.338992	Y
4	IC 140-87130/4	50.0	66.912374	100.0	9689577.0	1.338247	Y
5	IC 140-87130/5	400.0	524.701162	100.0	10335461.0	1.311753	Y
6	IC 140-87130/6	2000.0	2825.418127	100.0	11264701.0	1.412709	Y



Calibration

/ PCB-56

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

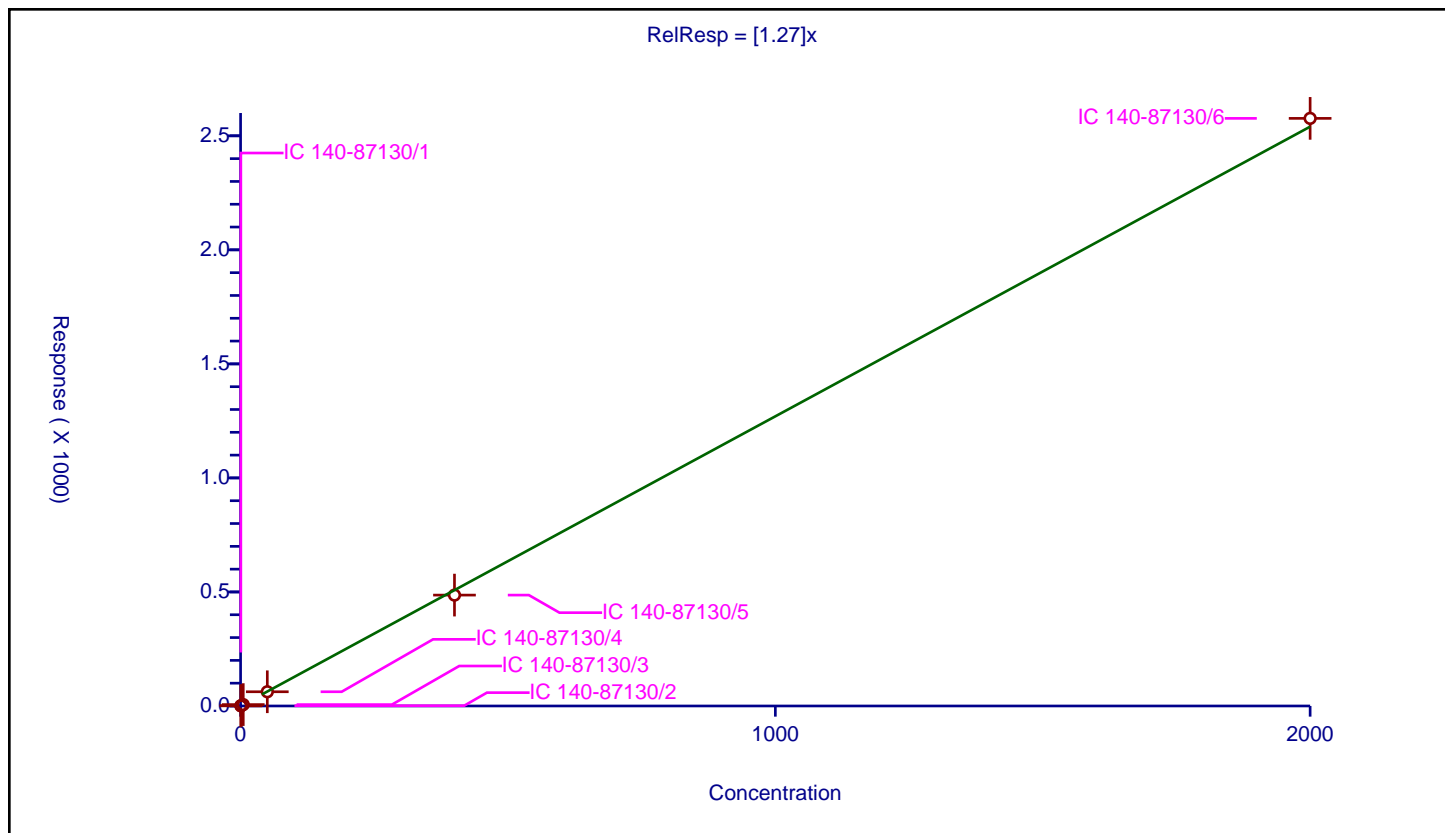
Curve Coefficients

Intercept: 0
 Slope: 1.27

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.721185	100.0	10352263.0	1.442371	Y
2	IC 140-87130/2	1.0	1.200711	100.0	9378026.0	1.200711	Y
3	IC 140-87130/3	5.0	6.131732	100.0	9411321.0	1.226346	Y
4	IC 140-87130/4	50.0	62.350988	100.0	9689577.0	1.24702	Y
5	IC 140-87130/5	400.0	486.206024	100.0	10335461.0	1.215515	Y
6	IC 140-87130/6	2000.0	2576.543745	100.0	11264701.0	1.288272	Y



Calibration

/ PCB-57

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

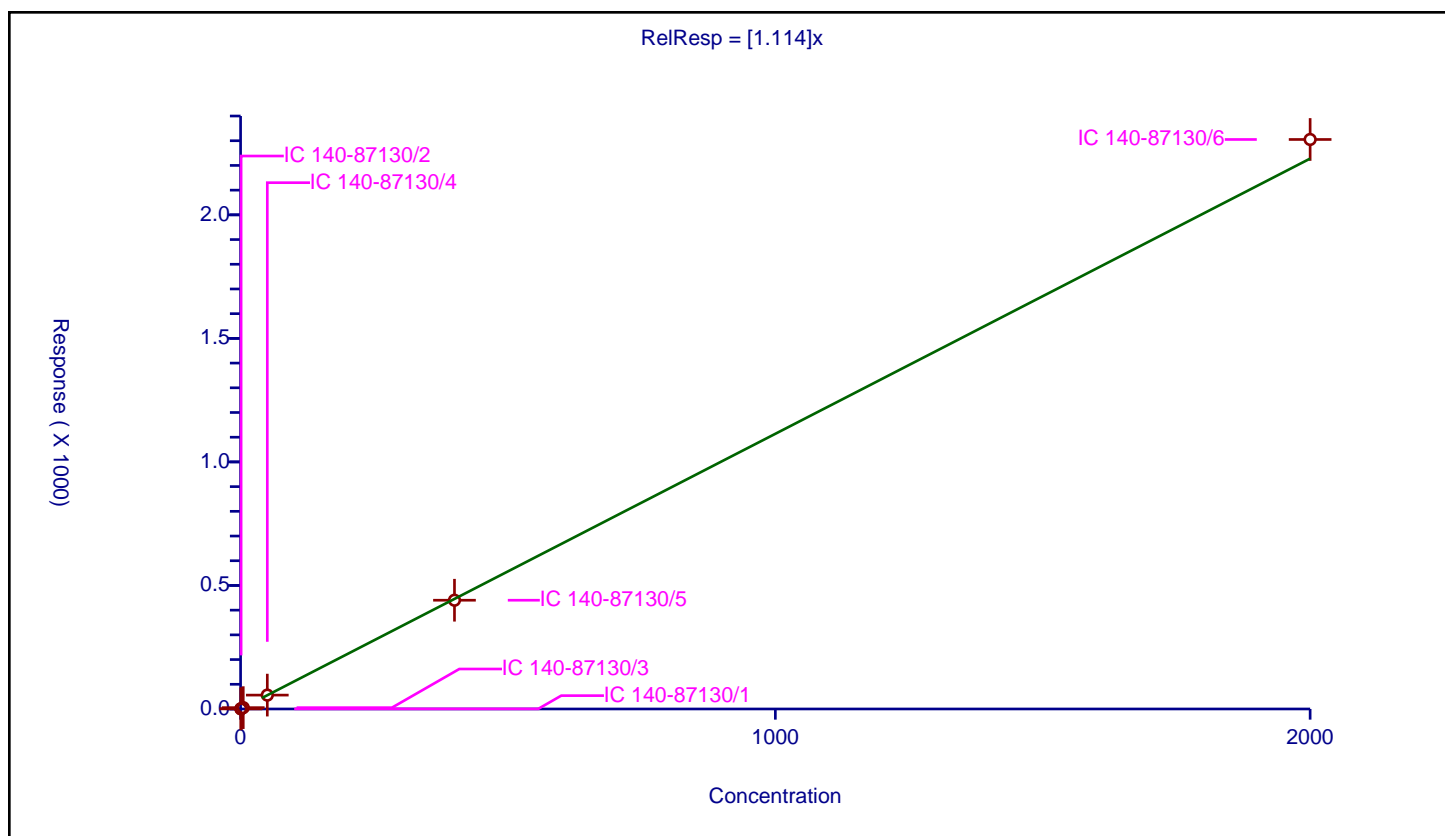
Curve Coefficients

Intercept: 0
Slope: 1.114

Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530493	100.0	10352263.0	1.060985	Y
2	IC 140-87130/2	1.0	1.149901	100.0	9378026.0	1.149901	Y
3	IC 140-87130/3	5.0	5.475012	100.0	9411321.0	1.095002	Y
4	IC 140-87130/4	50.0	56.200317	100.0	9689577.0	1.124006	Y
5	IC 140-87130/5	400.0	440.170961	100.0	10335461.0	1.100427	Y
6	IC 140-87130/6	2000.0	2305.01091	100.0	11264701.0	1.152505	Y



Calibration

/ PCB-58

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

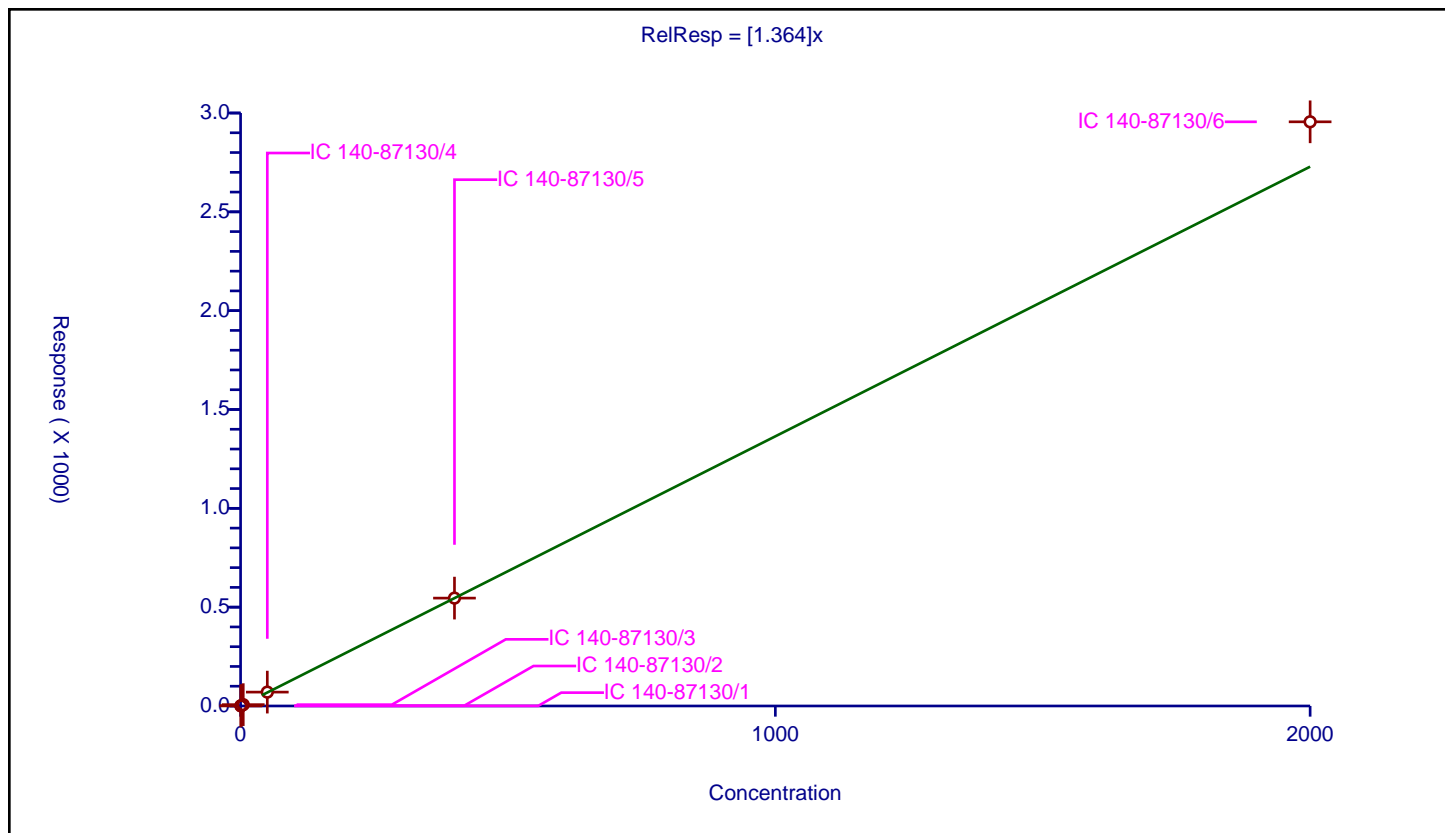
Curve Coefficients

Intercept: 0
Slope: 1.364

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.662531	100.0	10352263.0	1.325063	Y
2	IC 140-87130/2	1.0	1.255083	100.0	9378026.0	1.255083	Y
3	IC 140-87130/3	5.0	6.788739	100.0	9411321.0	1.357748	Y
4	IC 140-87130/4	50.0	70.262778	100.0	9689577.0	1.405256	Y
5	IC 140-87130/5	400.0	545.857509	100.0	10335461.0	1.364644	Y
6	IC 140-87130/6	2000.0	2955.489365	100.0	11264701.0	1.477745	Y



Calibration

/ PCB-59

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

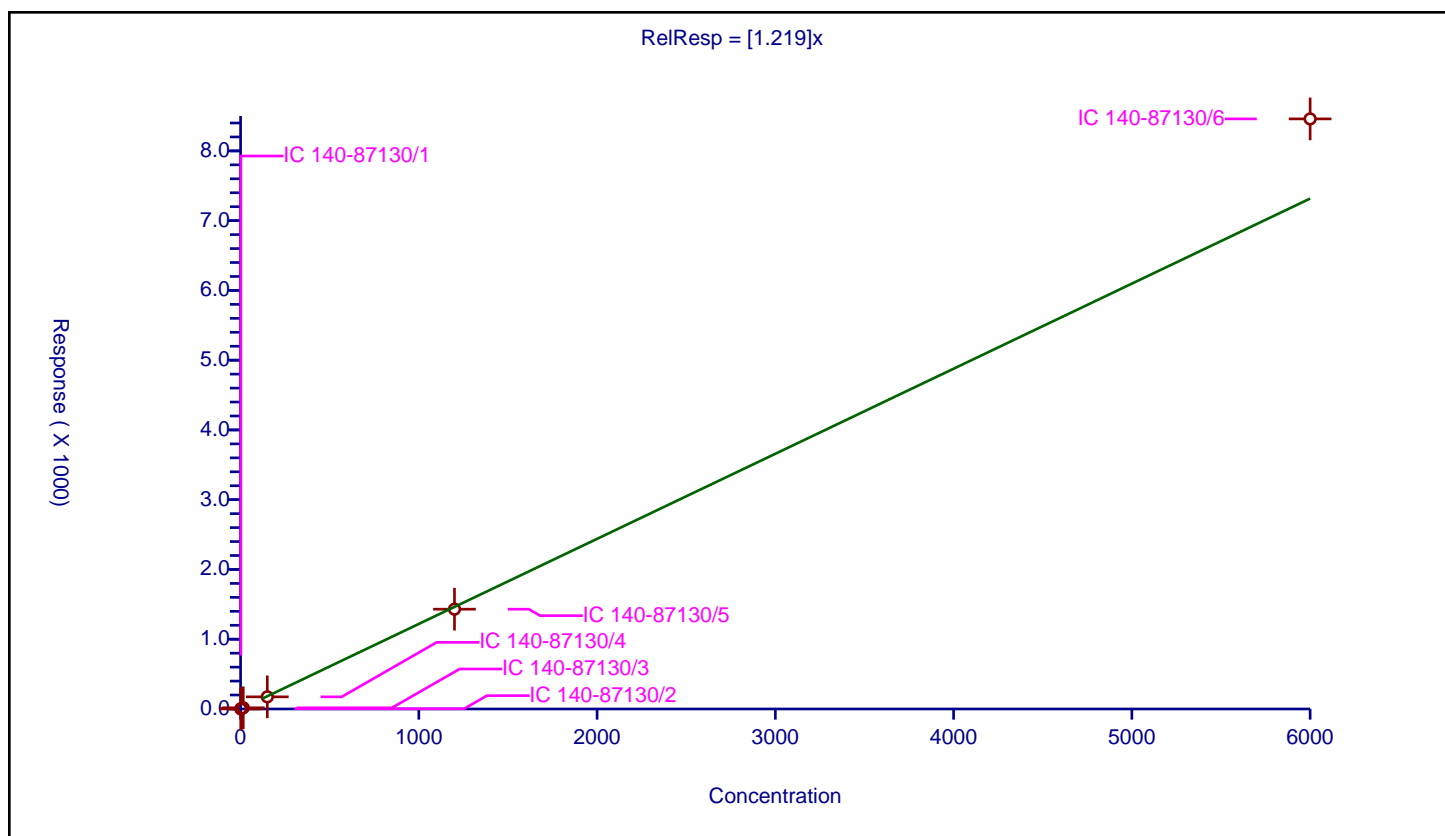
Curve Coefficients

Intercept: 0
Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-59/62/75

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

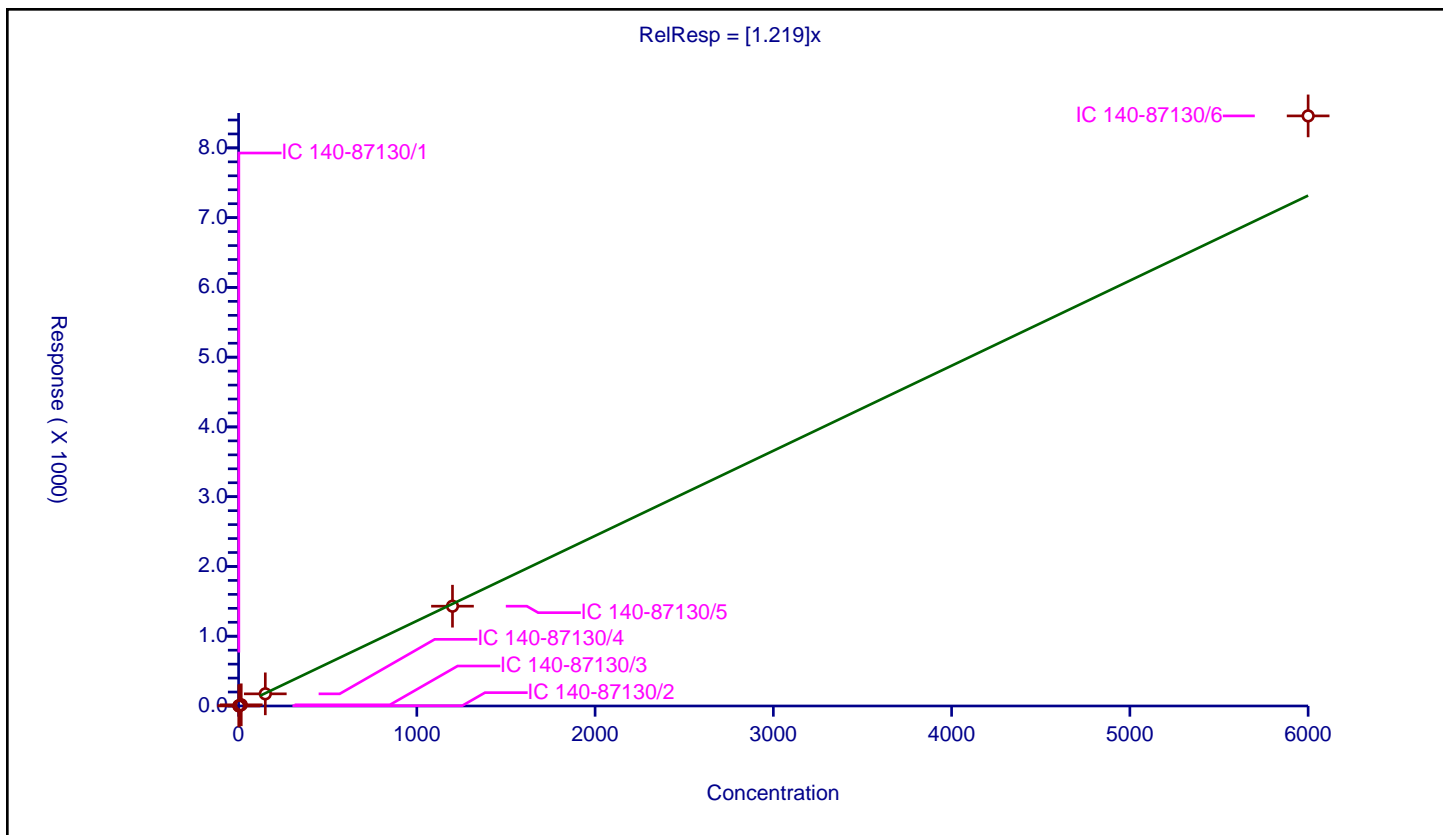
Curve Coefficients

Intercept: 0
Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-6

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

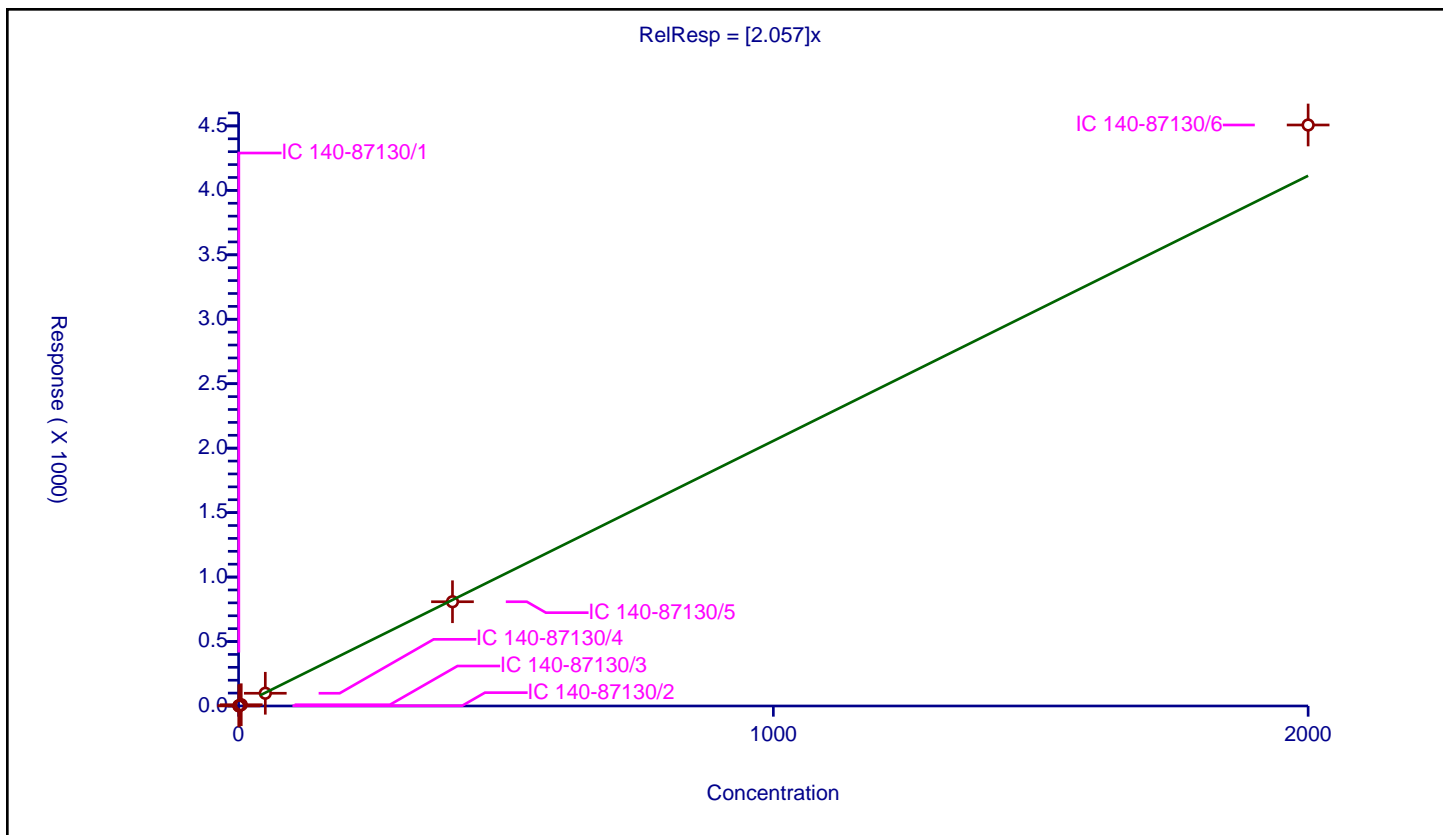
Curve Coefficients

Intercept: 0
Slope: 2.057

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.064168	100.0	5904521.0	2.128335	Y
2	IC 140-87130/2	1.0	1.998451	100.0	5442766.0	1.998451	Y
3	IC 140-87130/3	5.0	9.80909	100.0	5279032.0	1.961818	Y
4	IC 140-87130/4	50.0	98.79232	100.0	5474214.0	1.975846	Y
5	IC 140-87130/5	400.0	808.750943	100.0	5561618.0	2.021877	Y
6	IC 140-87130/6	2000.0	4507.022934	100.0	5672202.0	2.253511	Y



Calibration

/ PCB-60

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

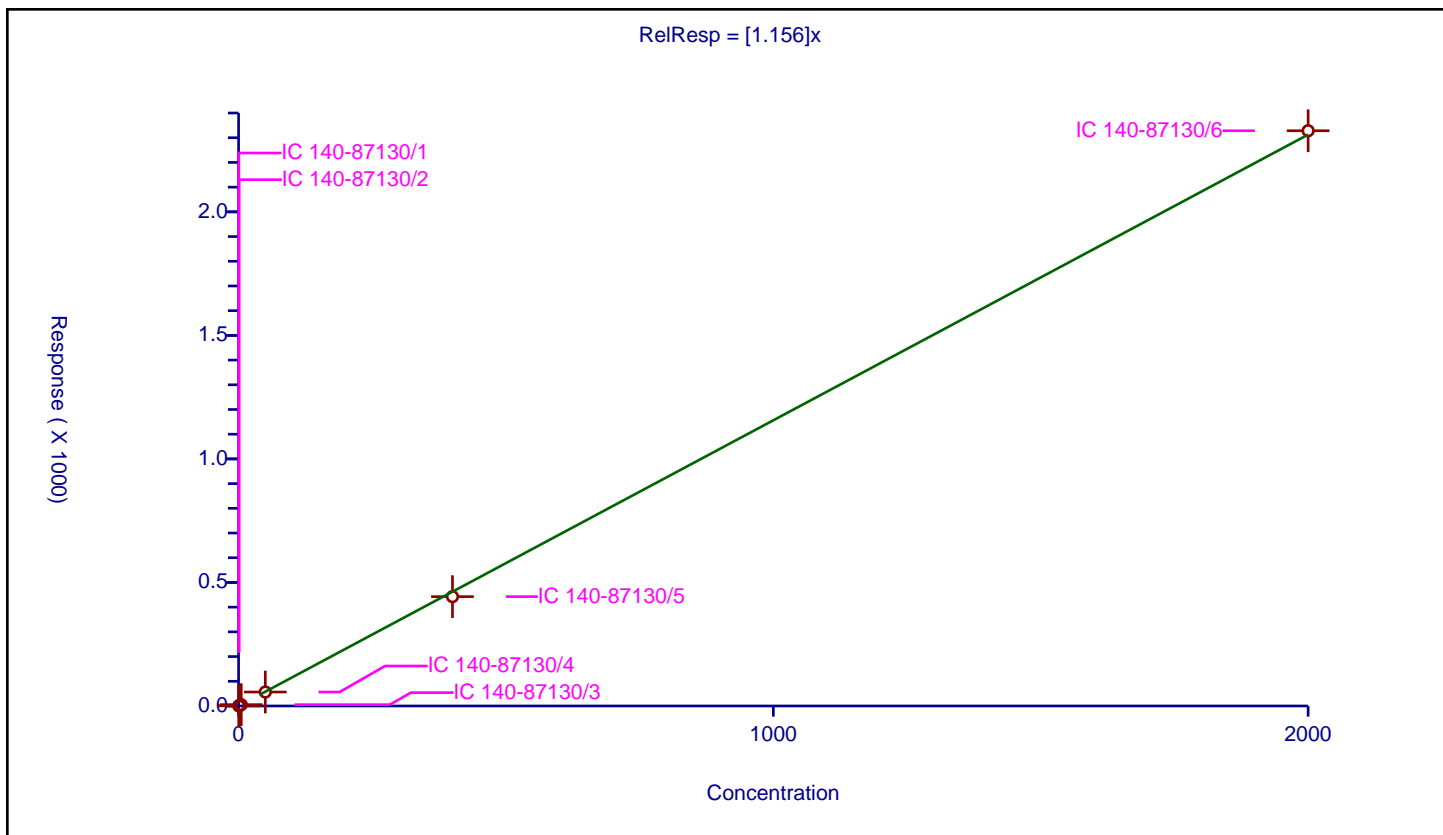
Curve Coefficients

Intercept: 0
Slope: 1.156

Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584143	100.0	10352263.0	1.168286	Y
2	IC 140-87130/2	1.0	1.283522	100.0	9378026.0	1.283522	Y
3	IC 140-87130/3	5.0	5.427495	100.0	9411321.0	1.085499	Y
4	IC 140-87130/4	50.0	56.506904	100.0	9689577.0	1.130138	Y
5	IC 140-87130/5	400.0	442.551619	100.0	10335461.0	1.106379	Y
6	IC 140-87130/6	2000.0	2328.177366	100.0	11264701.0	1.164089	Y



Calibration

/ PCB-61

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

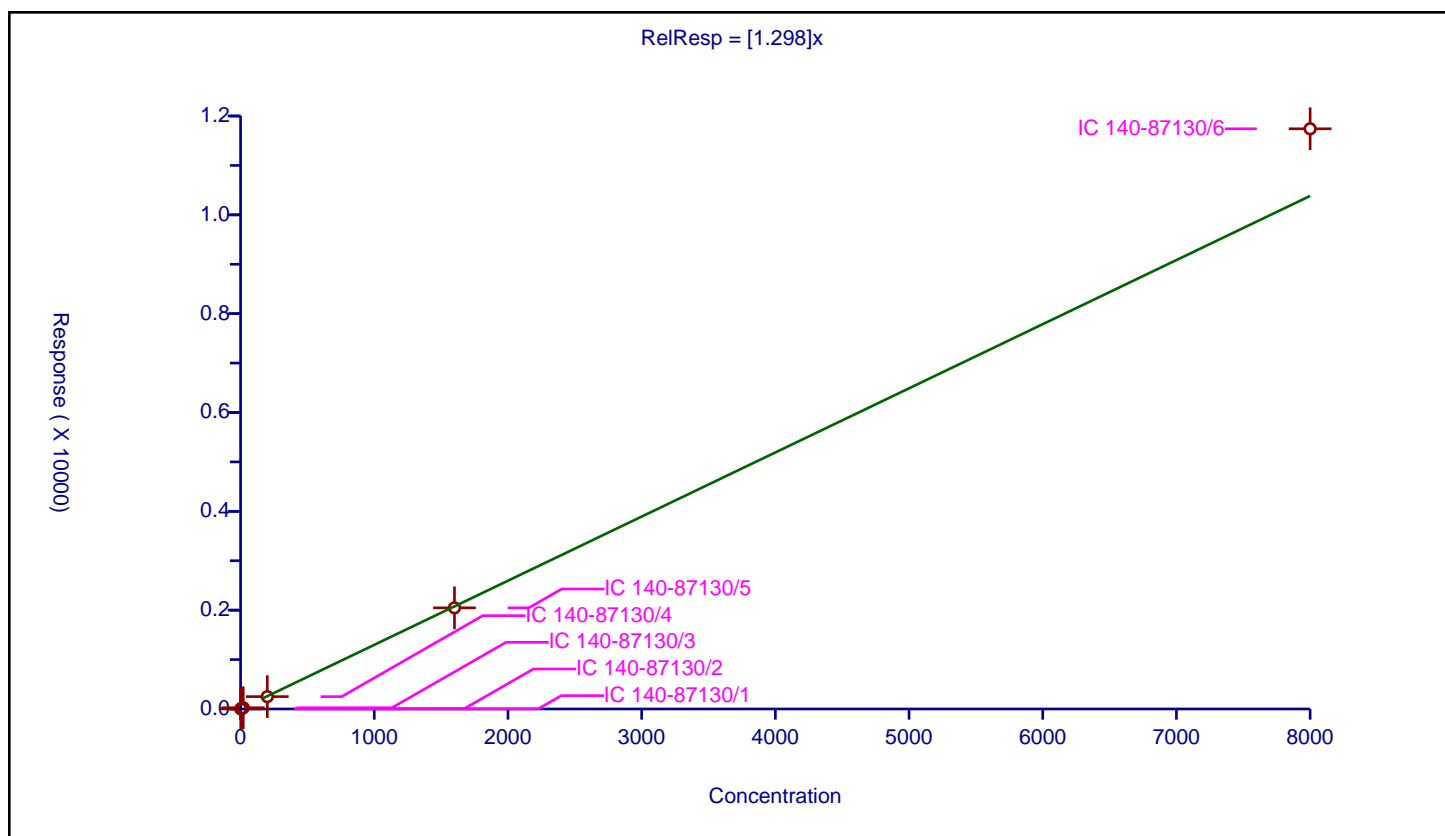
Curve Coefficients

Intercept: 0
Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-61/70/74/76

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

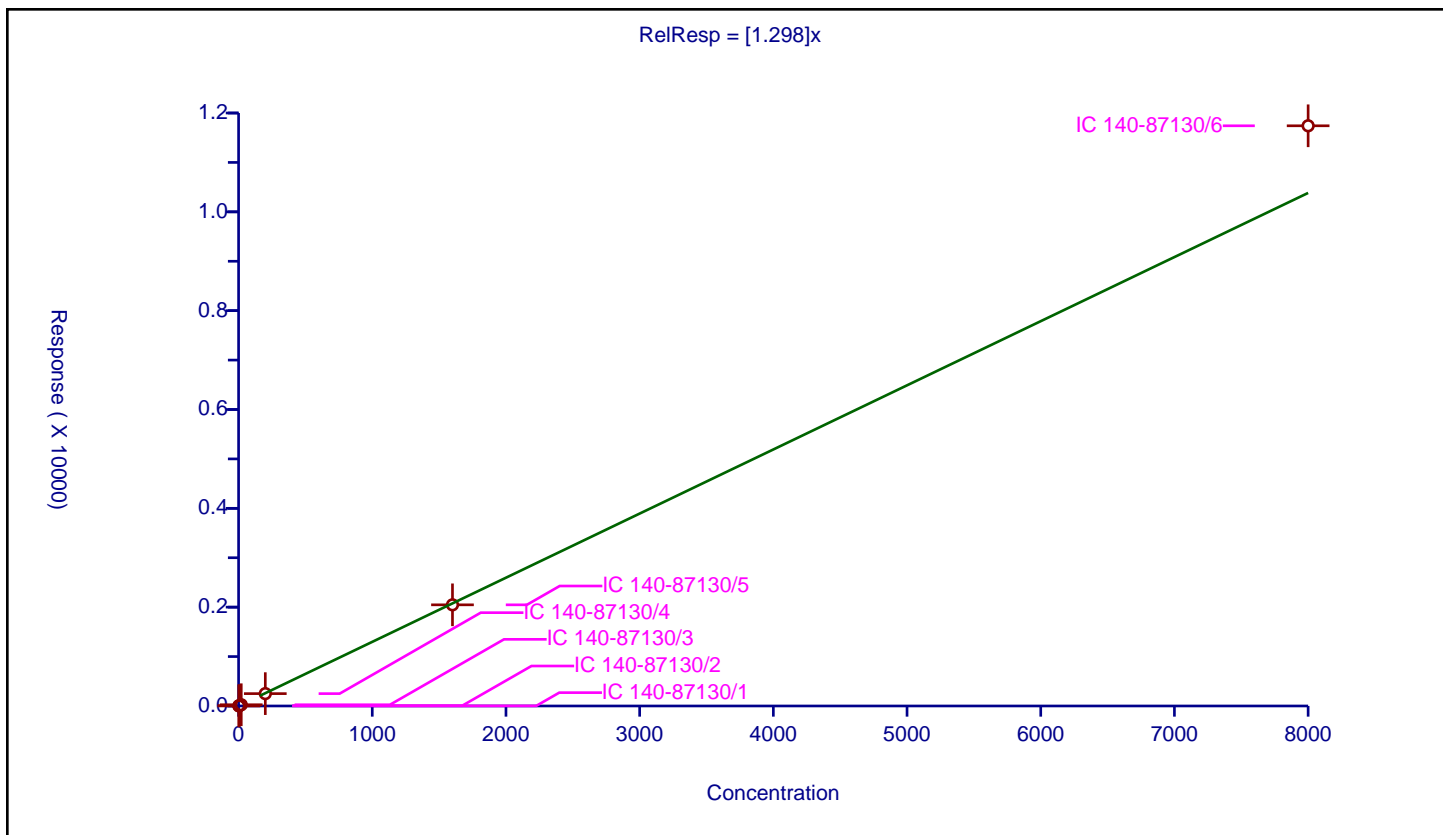
Curve Coefficients

Intercept: 0
 Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-62

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

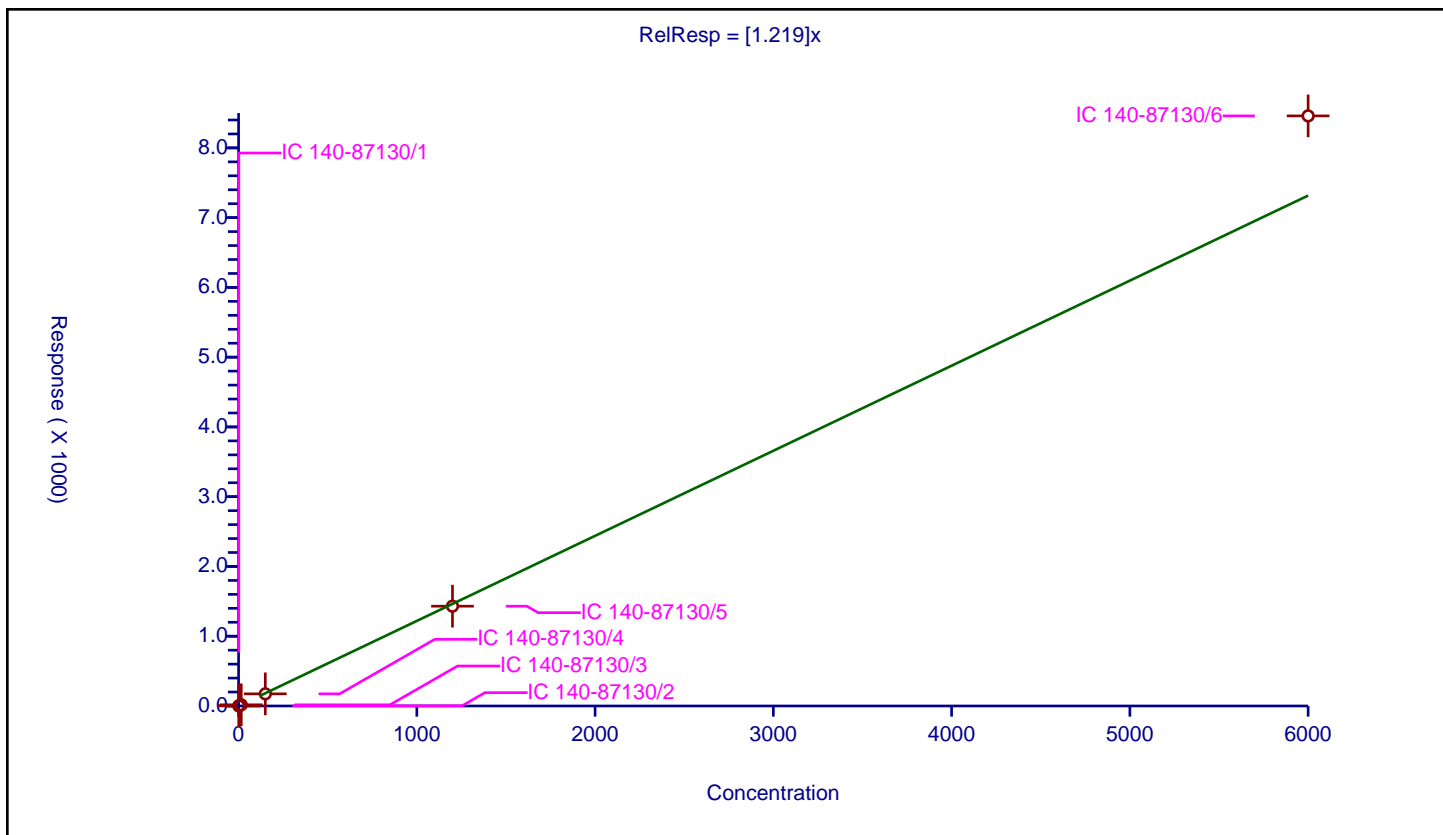
Curve Coefficients

Intercept: 0
Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-63

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

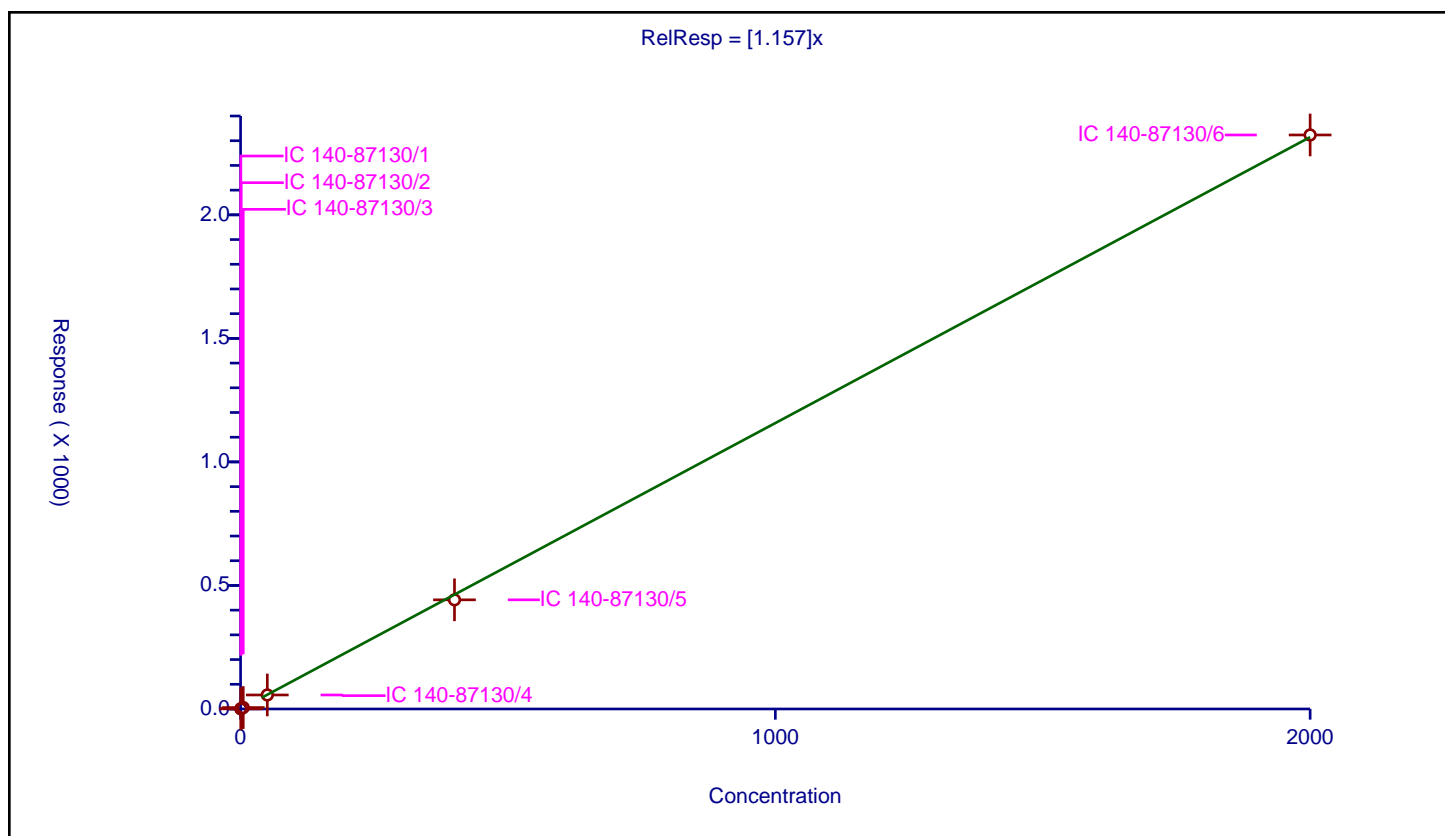
Curve Coefficients

Intercept: 0
Slope: 1.157

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.586538	100.0	10352263.0	1.173077	Y
2	IC 140-87130/2	1.0	1.21211	100.0	9378026.0	1.21211	Y
3	IC 140-87130/3	5.0	5.788412	100.0	9411321.0	1.157682	Y
4	IC 140-87130/4	50.0	56.746657	100.0	9689577.0	1.134933	Y
5	IC 140-87130/5	400.0	441.810288	100.0	10335461.0	1.104526	Y
6	IC 140-87130/6	2000.0	2323.277031	100.0	11264701.0	1.161639	Y



Calibration

/ PCB-64

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

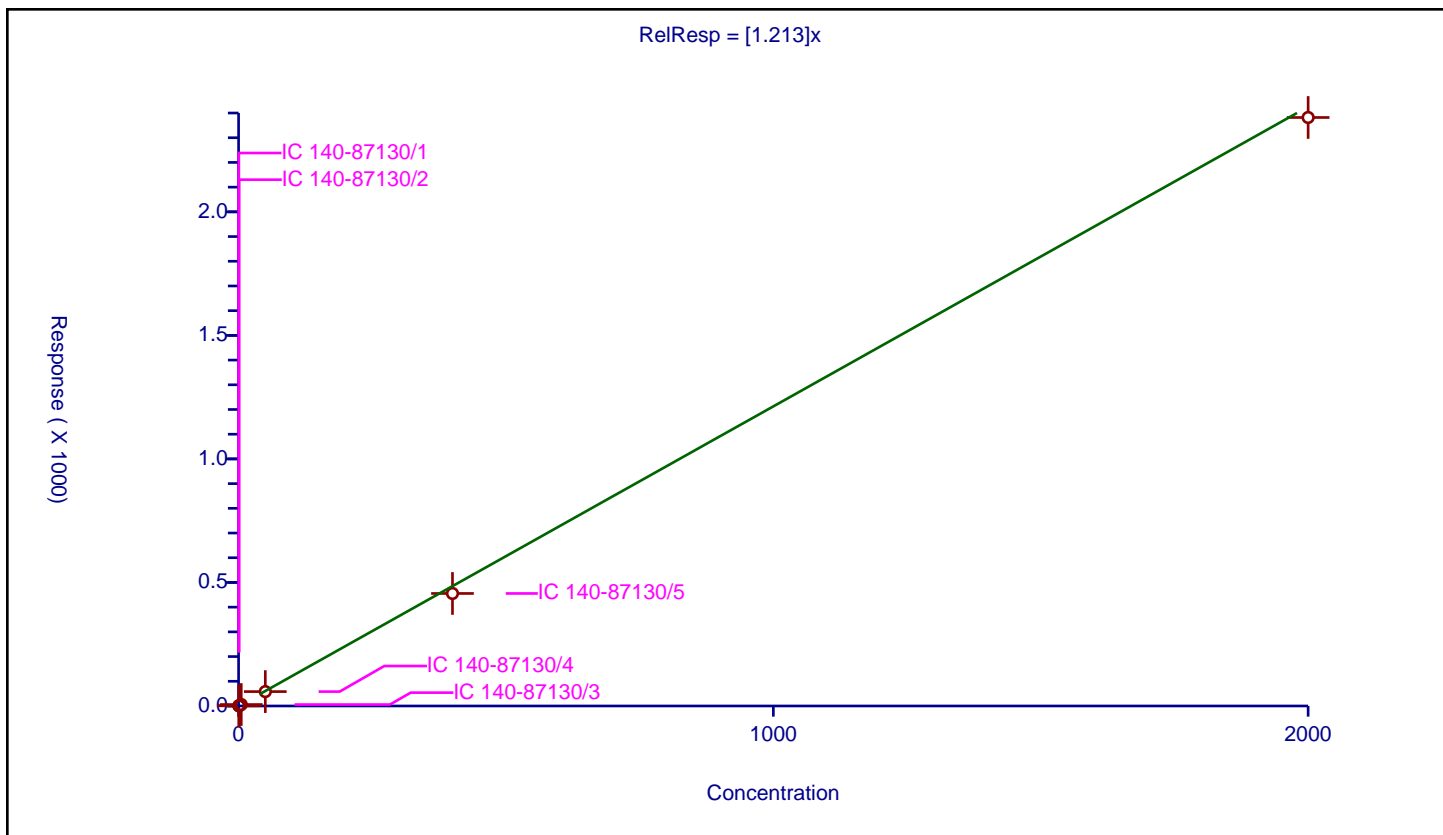
Curve Coefficients

Intercept: 0
 Slope: 1.213

Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.660213	100.0	10352263.0	1.320426	Y
2	IC 140-87130/2	1.0	1.293726	100.0	9378026.0	1.293726	Y
3	IC 140-87130/3	5.0	5.840423	100.0	9411321.0	1.168085	Y
4	IC 140-87130/4	50.0	58.207061	100.0	9689577.0	1.164141	Y
5	IC 140-87130/5	400.0	455.392556	100.0	10335461.0	1.138481	Y
6	IC 140-87130/6	2000.0	2381.885866	100.0	11264701.0	1.190943	Y



Calibration

/ PCB-65

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

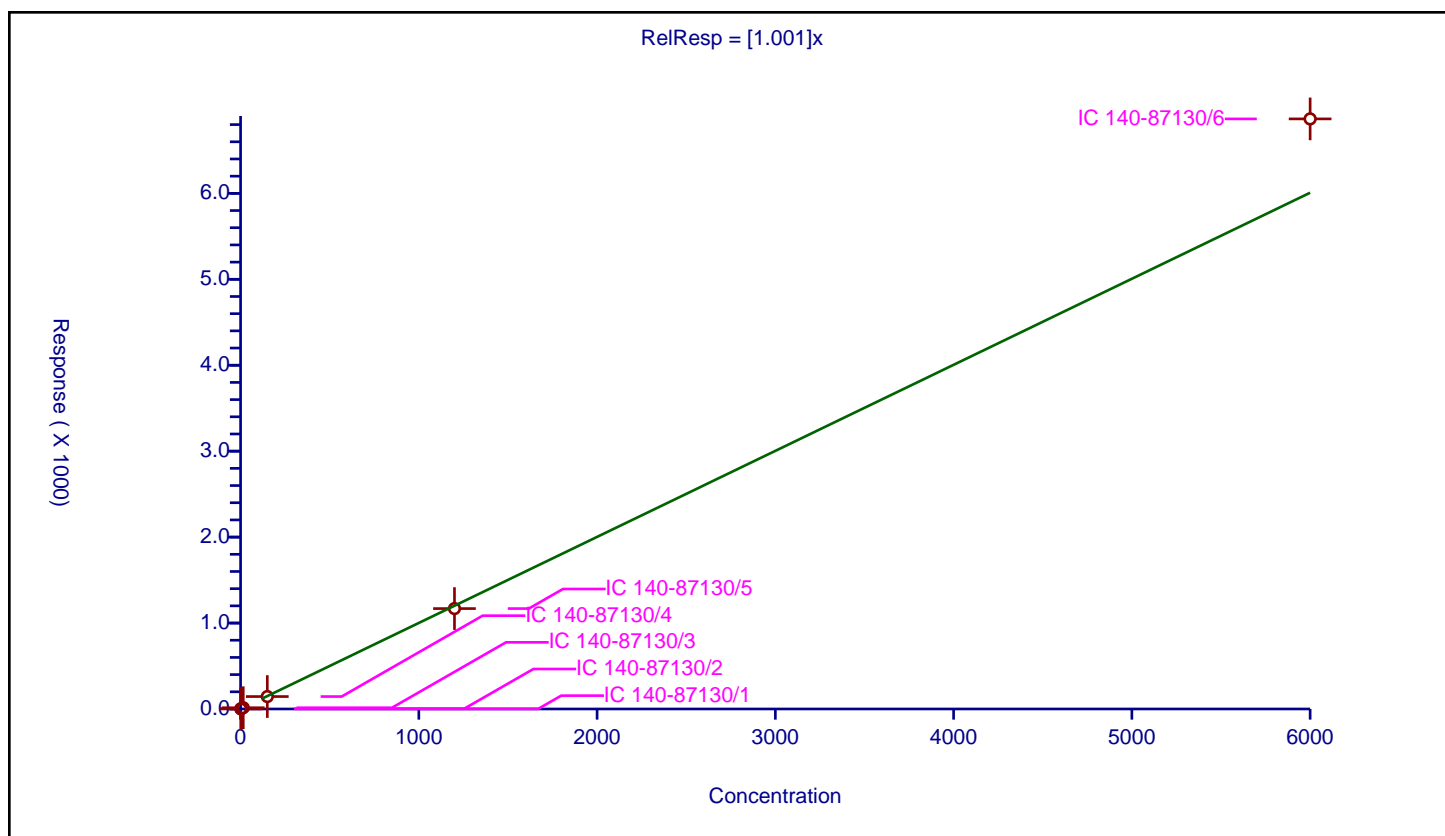
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



Calibration

/ PCB-66

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

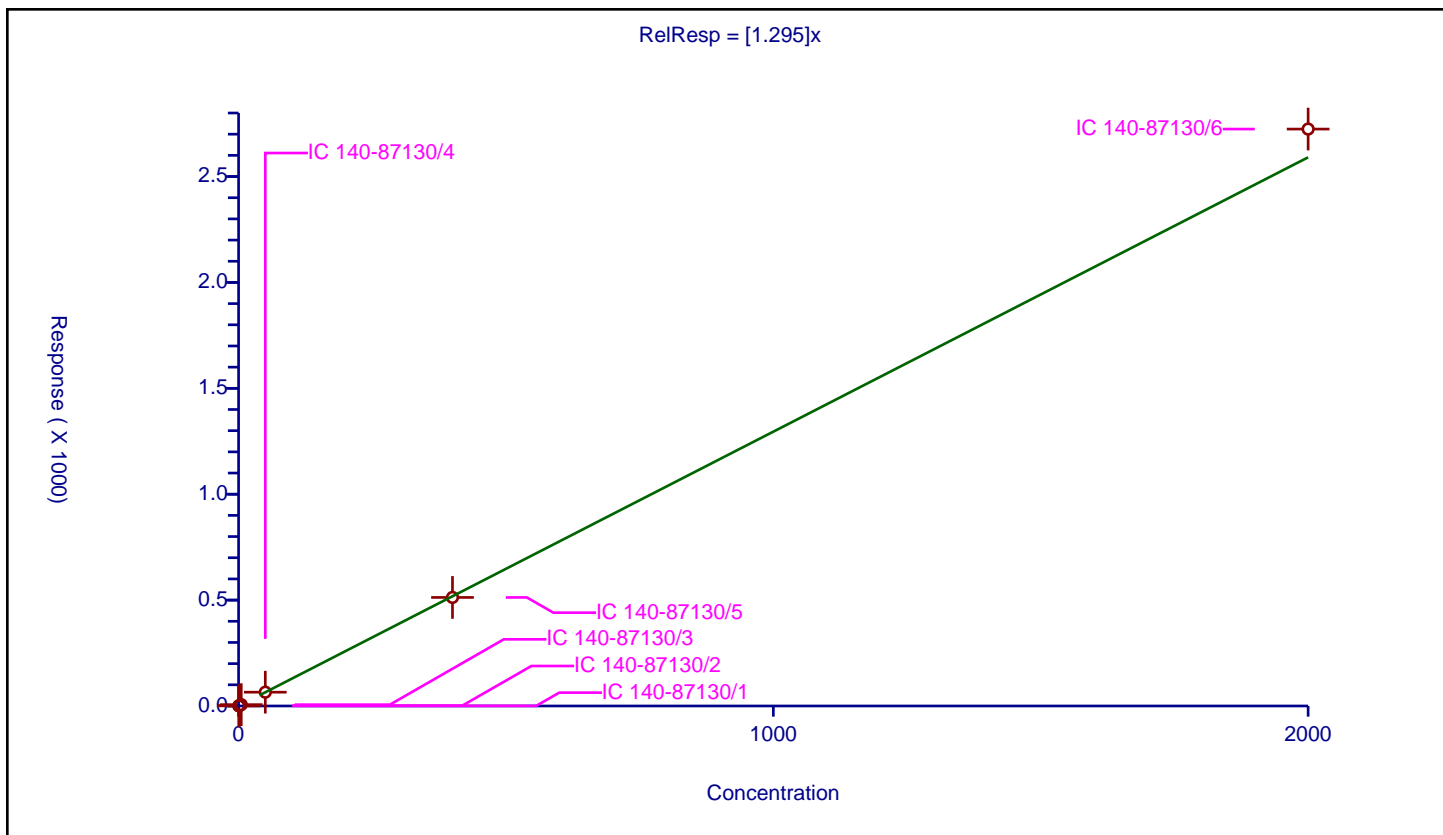
Curve Coefficients

Intercept: 0
Slope: 1.295

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.639464	100.0	10352263.0	1.278928	Y
2	IC 140-87130/2	1.0	1.269617	100.0	9378026.0	1.269617	Y
3	IC 140-87130/3	5.0	6.385852	100.0	9411321.0	1.27717	Y
4	IC 140-87130/4	50.0	65.144454	100.0	9689577.0	1.302889	Y
5	IC 140-87130/5	400.0	512.613835	100.0	10335461.0	1.281535	Y
6	IC 140-87130/6	2000.0	2724.238389	100.0	11264701.0	1.362119	Y



Calibration

/ PCB-67

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

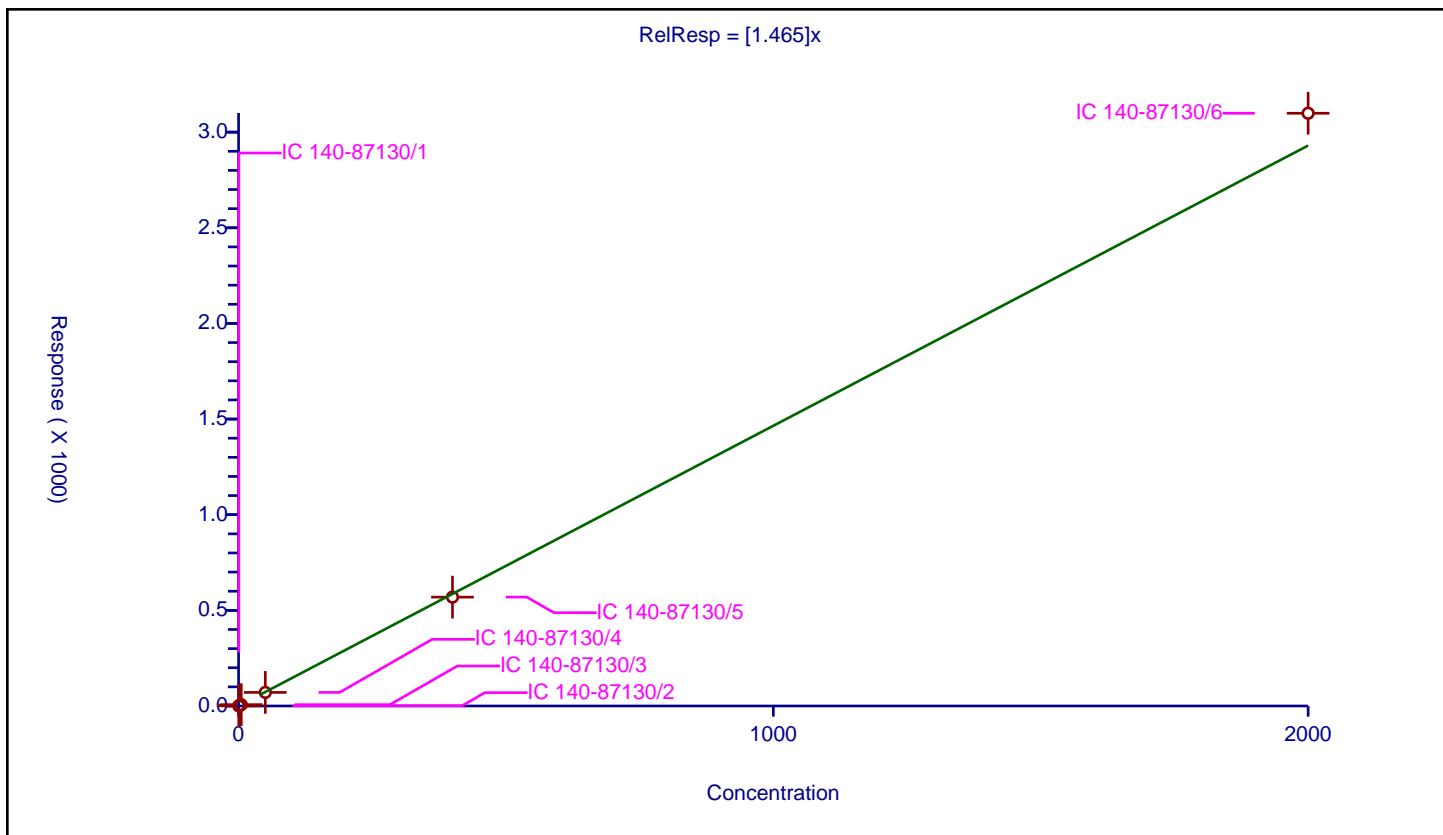
Curve Coefficients

Intercept: 0
Slope: 1.465

Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.76959	100.0	10352263.0	1.53918	Y
2	IC 140-87130/2	1.0	1.450231	100.0	9378026.0	1.450231	Y
3	IC 140-87130/3	5.0	7.044229	100.0	9411321.0	1.408846	Y
4	IC 140-87130/4	50.0	70.96219	100.0	9689577.0	1.419244	Y
5	IC 140-87130/5	400.0	569.077403	100.0	10335461.0	1.422694	Y
6	IC 140-87130/6	2000.0	3098.733362	100.0	11264701.0	1.549367	Y



Calibration

/ PCB-68

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

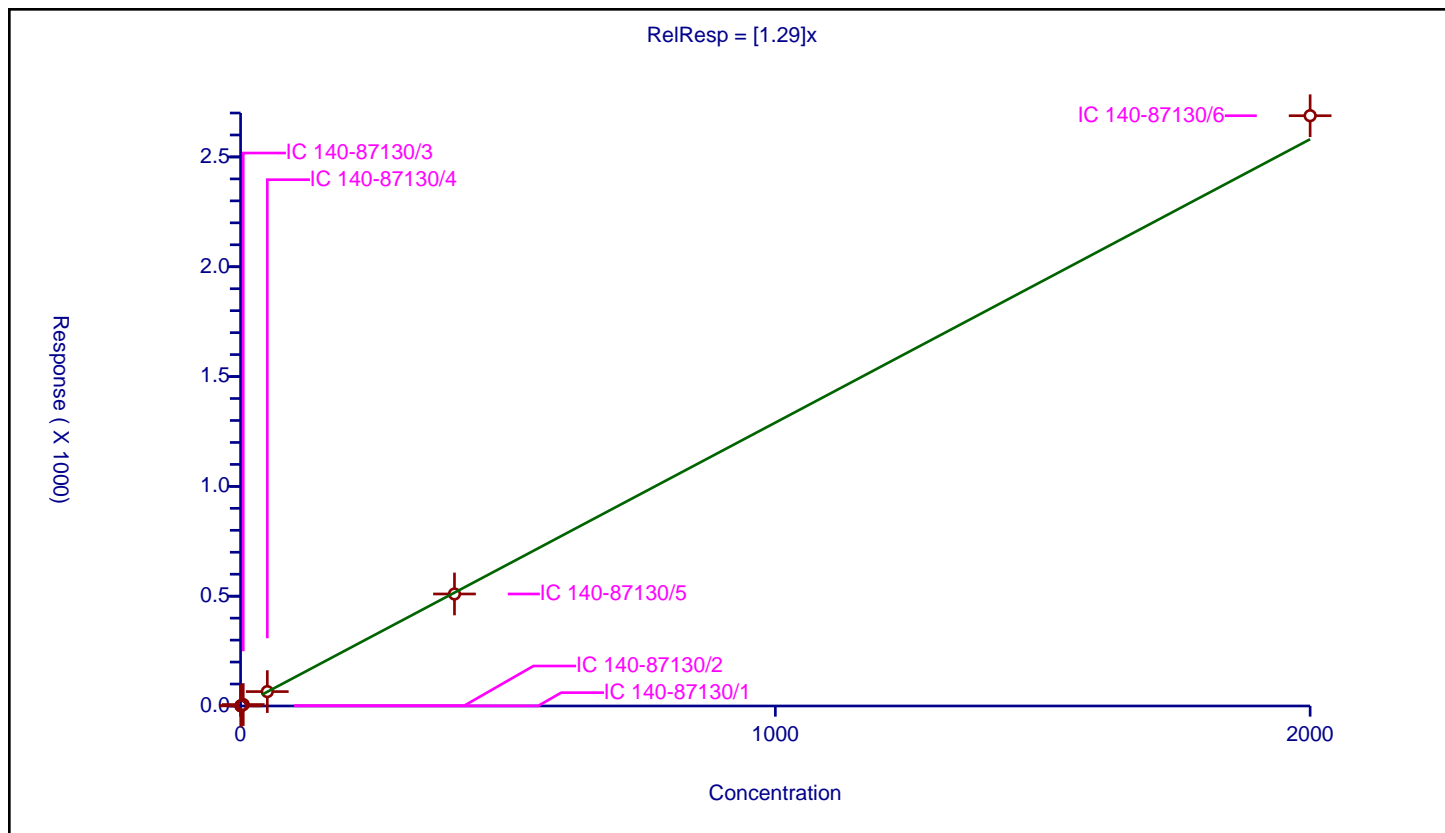
Curve Coefficients

Intercept: 0
Slope: 1.29

Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.606167	100.0	10352263.0	1.212334	Y
2	IC 140-87130/2	1.0	1.286401	100.0	9378026.0	1.286401	Y
3	IC 140-87130/3	5.0	6.575751	100.0	9411321.0	1.31515	Y
4	IC 140-87130/4	50.0	65.452207	100.0	9689577.0	1.309044	Y
5	IC 140-87130/5	400.0	510.038391	100.0	10335461.0	1.275096	Y
6	IC 140-87130/6	2000.0	2687.75118	100.0	11264701.0	1.343876	Y



Calibration

/ PCB-69

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

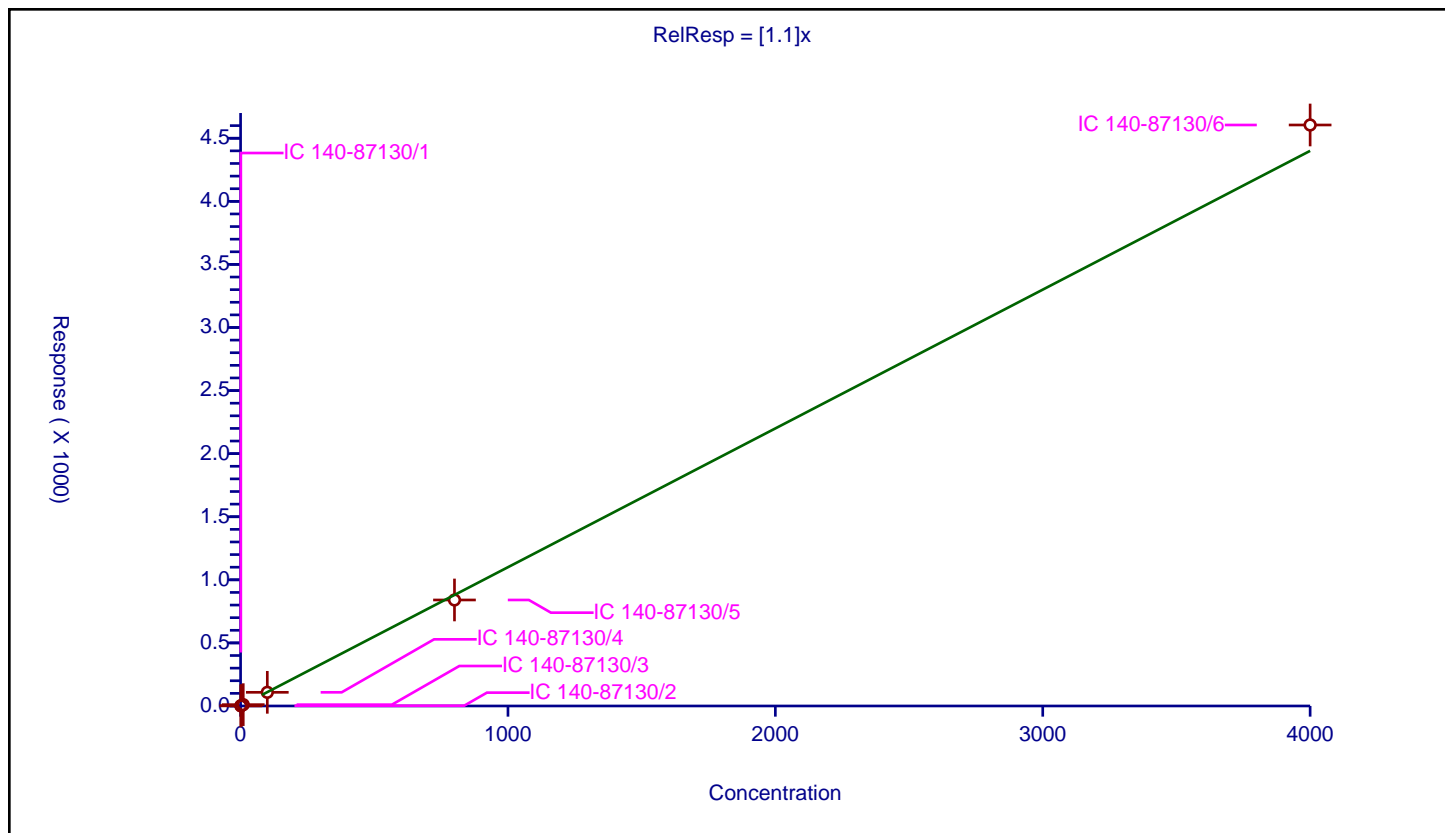
Curve Coefficients

Intercept: 0
Slope: 1.1

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



Calibration

/ PCB-7

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

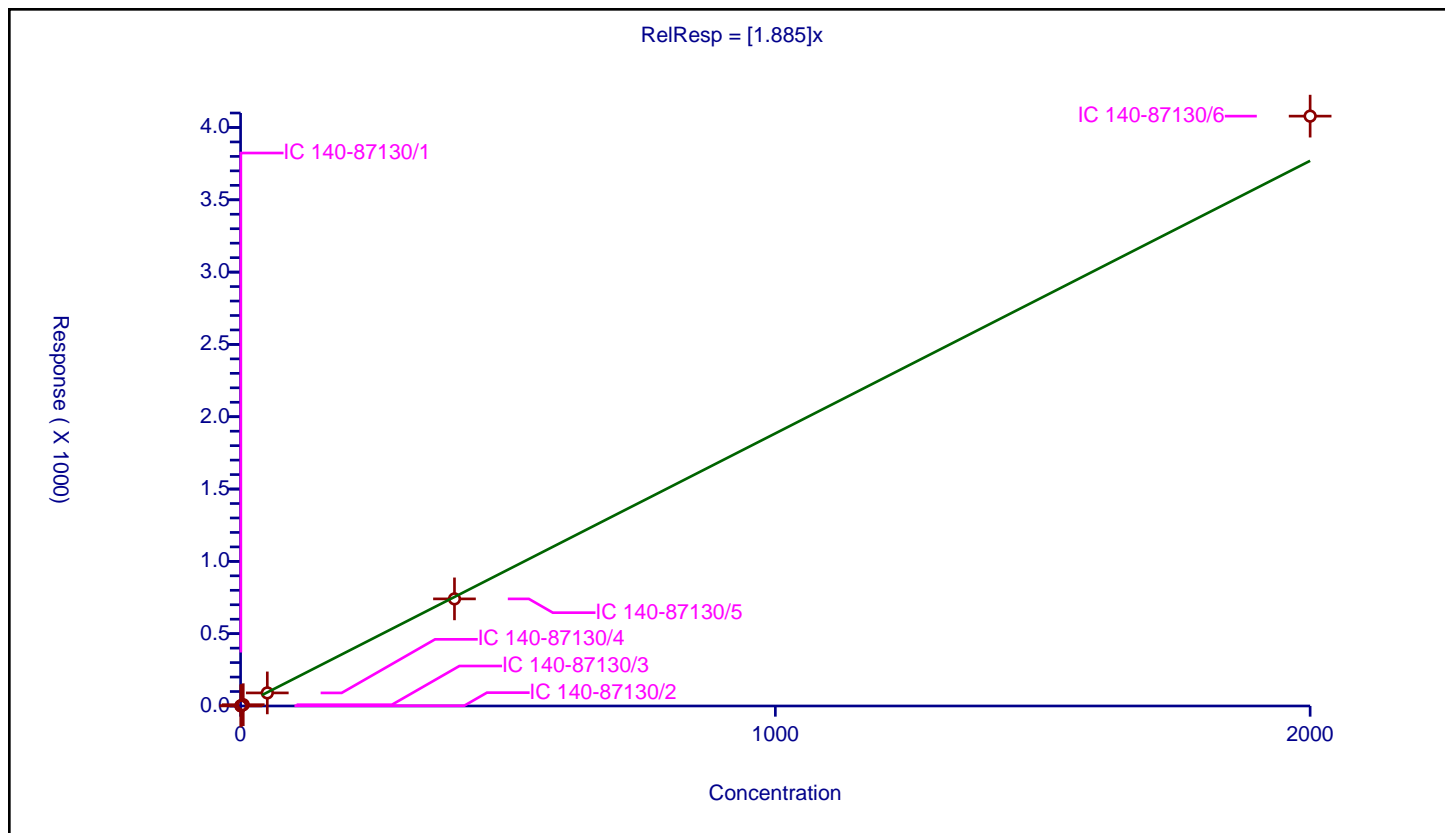
Curve Coefficients

Intercept: 0
Slope: 1.885

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.984957	100.0	5904521.0	1.969914	Y
2	IC 140-87130/2	1.0	1.833443	100.0	5442766.0	1.833443	Y
3	IC 140-87130/3	5.0	9.032736	100.0	5279032.0	1.806547	Y
4	IC 140-87130/4	50.0	90.425639	100.0	5474214.0	1.808513	Y
5	IC 140-87130/5	400.0	740.476153	100.0	5561618.0	1.85119	Y
6	IC 140-87130/6	2000.0	4078.342309	100.0	5672202.0	2.039171	Y



Calibration

/ PCB-70

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

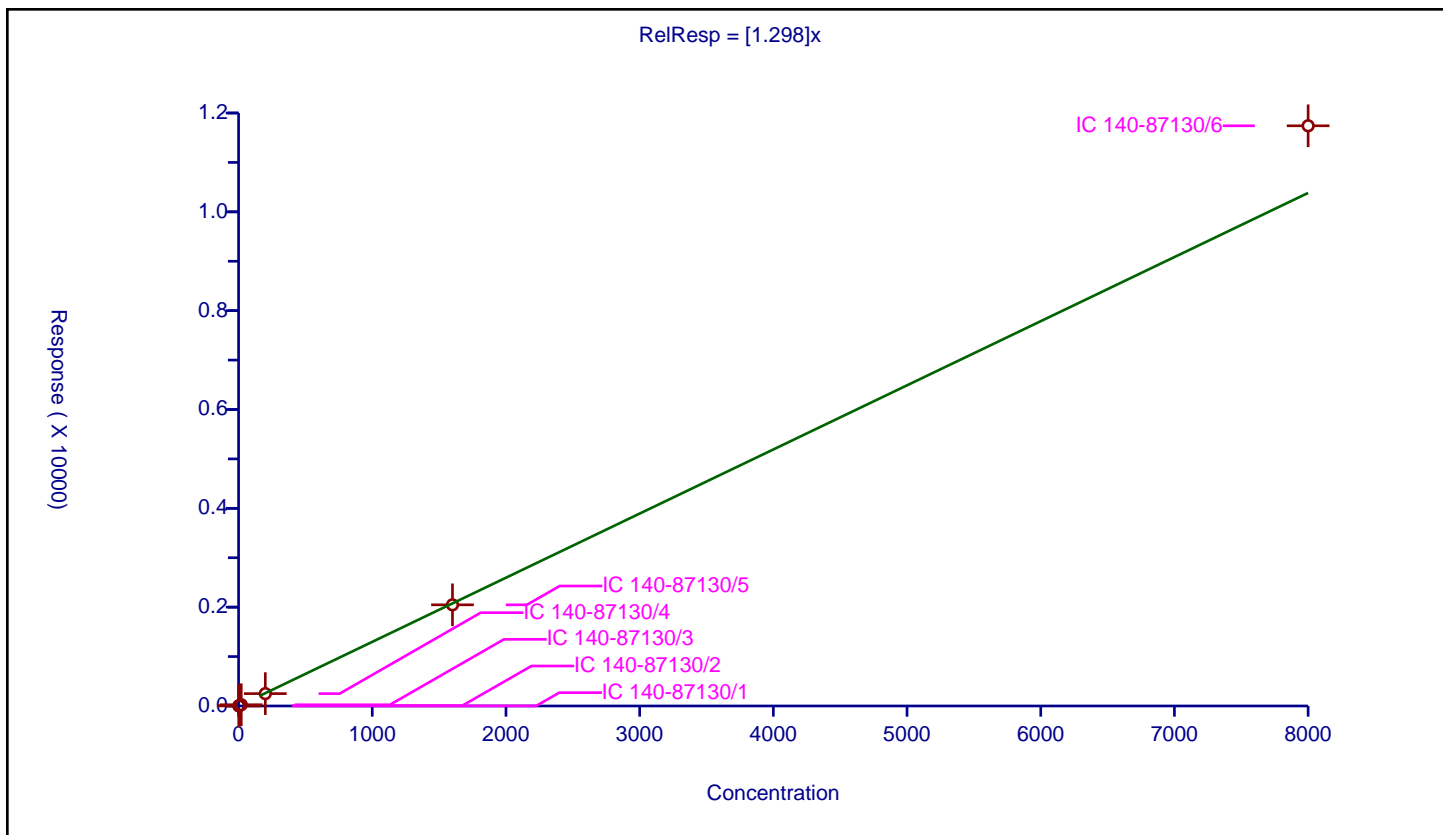
Curve Coefficients

Intercept: 0
 Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-71

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

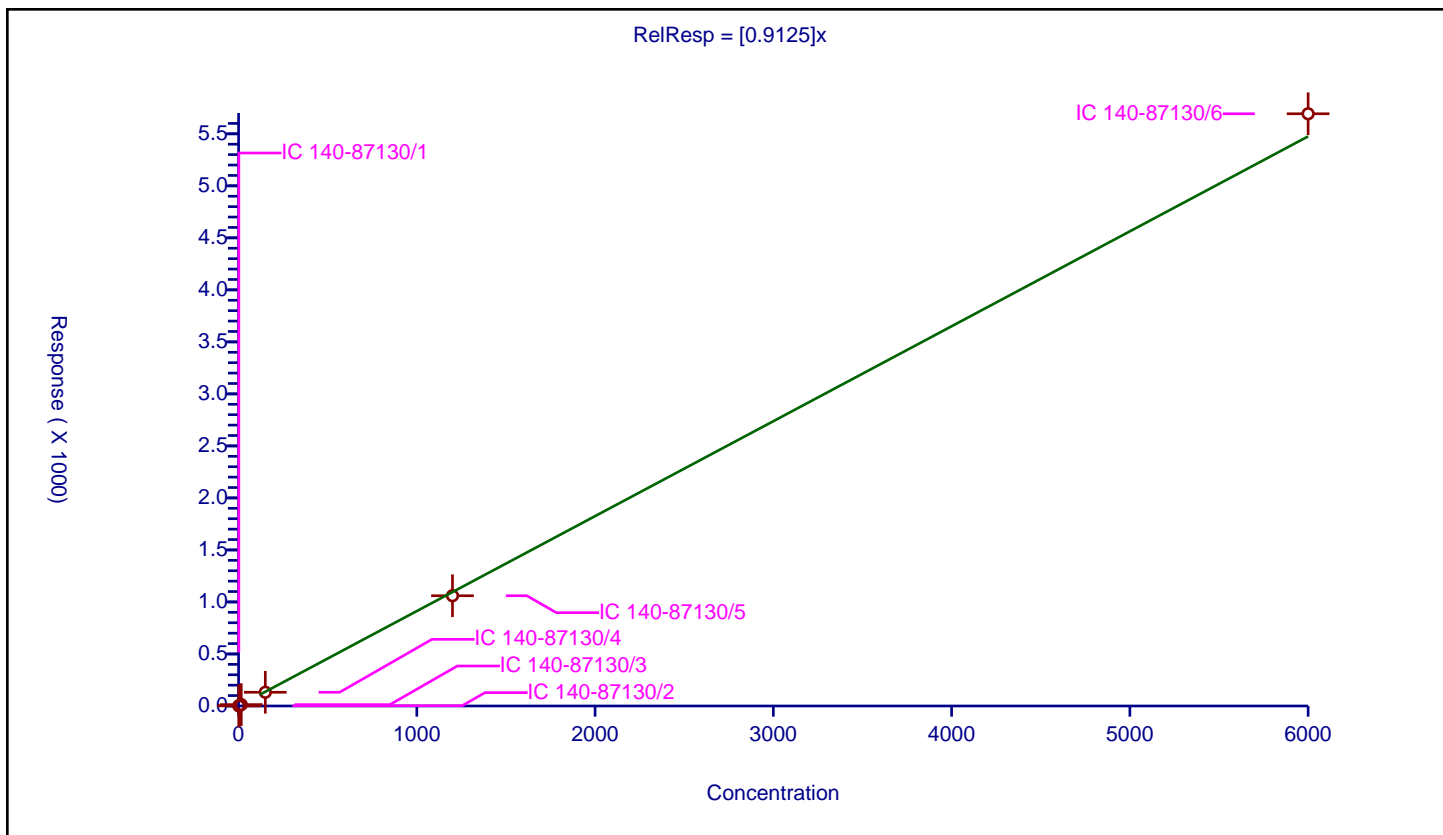
Curve Coefficients

Intercept: 0
Slope: 0.9125

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



Calibration

/ PCB-72

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

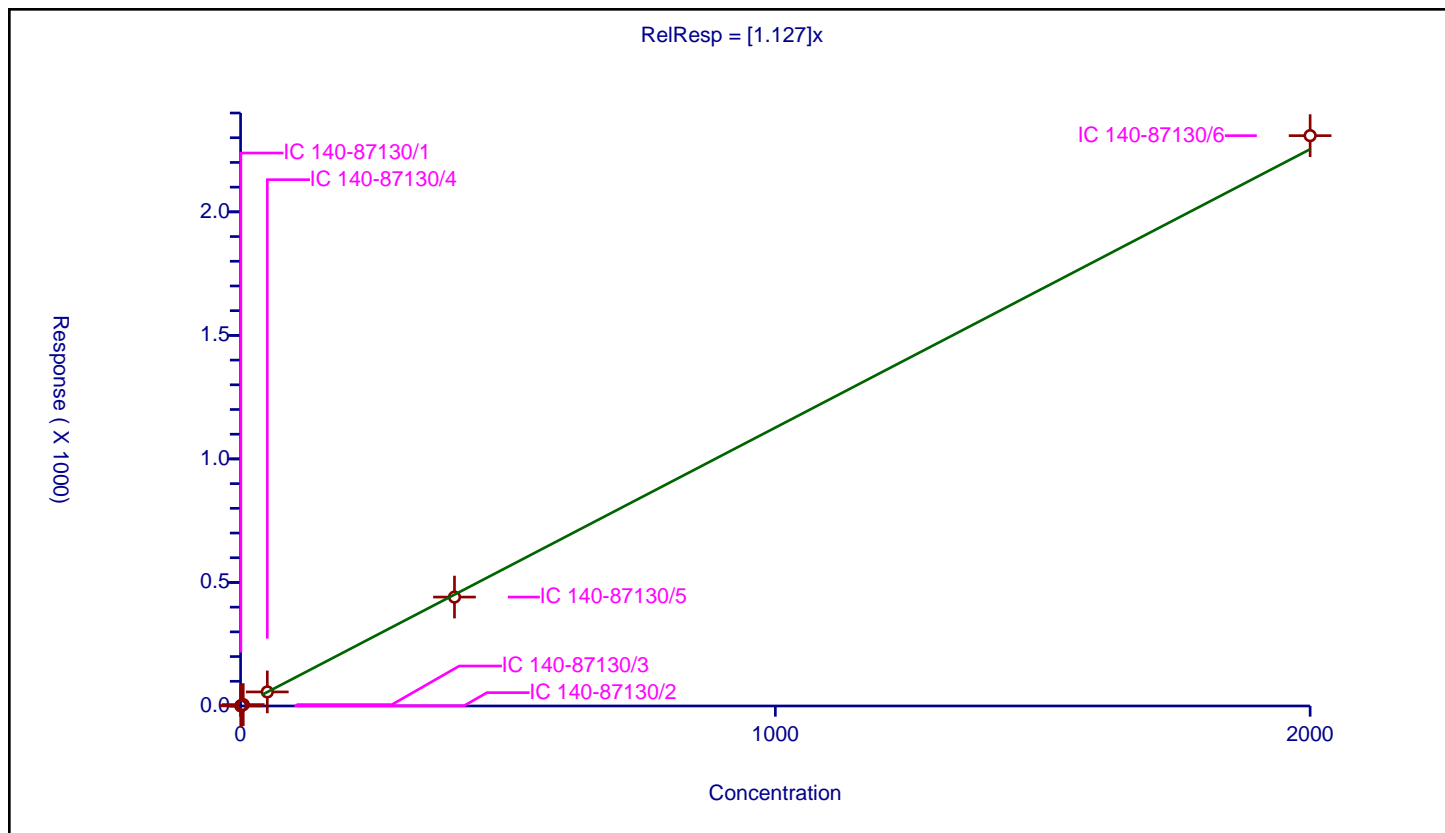
Curve Coefficients

Intercept: 0
 Slope: 1.127

Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.573015	100.0	10352263.0	1.14603	Y
2	IC 140-87130/2	1.0	1.09618	100.0	9378026.0	1.09618	Y
3	IC 140-87130/3	5.0	5.619275	100.0	9411321.0	1.123855	Y
4	IC 140-87130/4	50.0	56.900337	100.0	9689577.0	1.138007	Y
5	IC 140-87130/5	400.0	440.810613	100.0	10335461.0	1.102027	Y
6	IC 140-87130/6	2000.0	2308.418555	100.0	11264701.0	1.154209	Y



Calibration

/ PCB-73

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

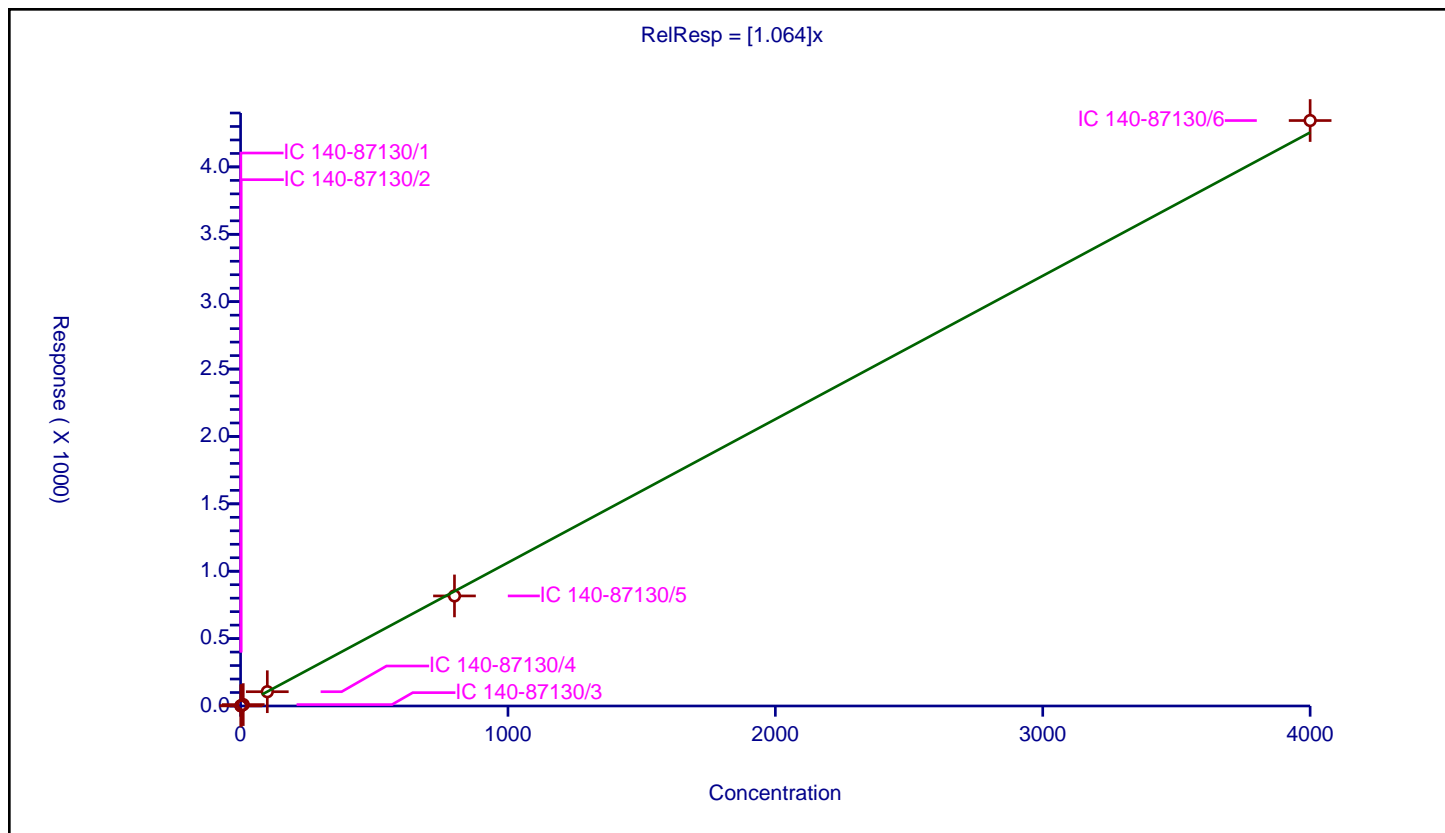
Curve Coefficients

Intercept: 0
Slope: 1.064

Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



Calibration

/ PCB-74

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

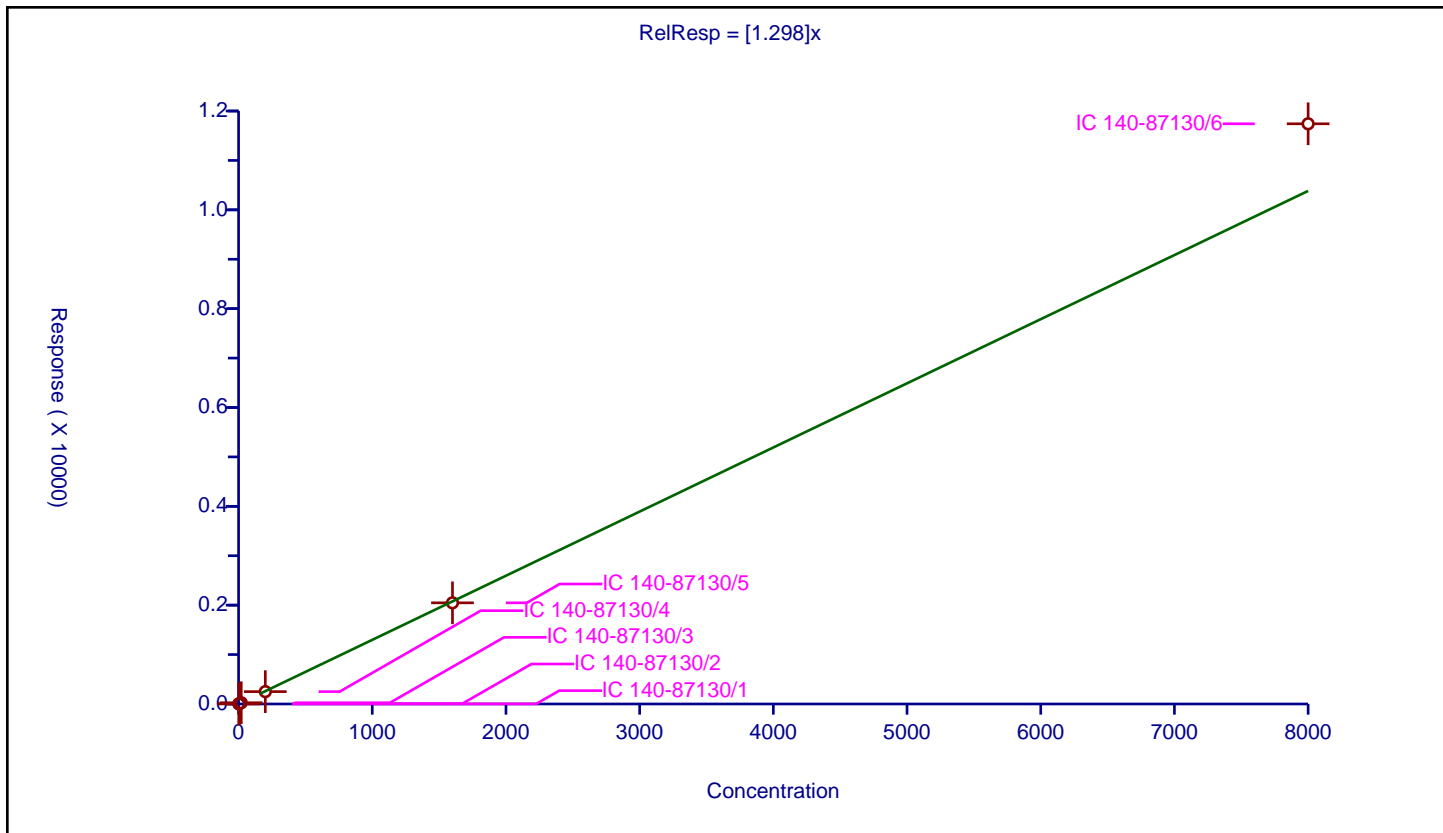
Curve Coefficients

Intercept: 0
 Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-75

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

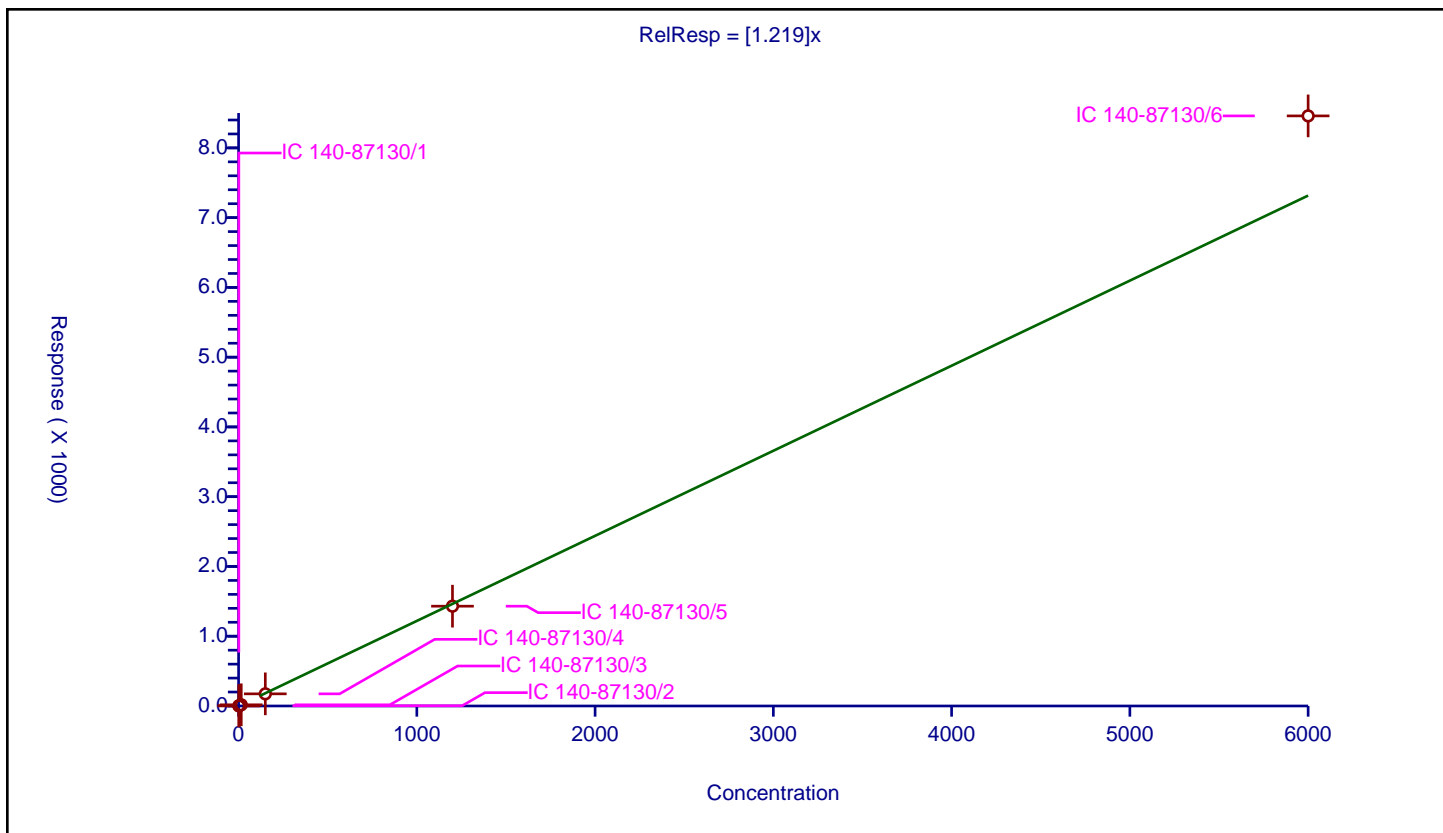
Curve Coefficients

Intercept: 0
 Slope: 1.219

Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Calibration

/ PCB-76

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

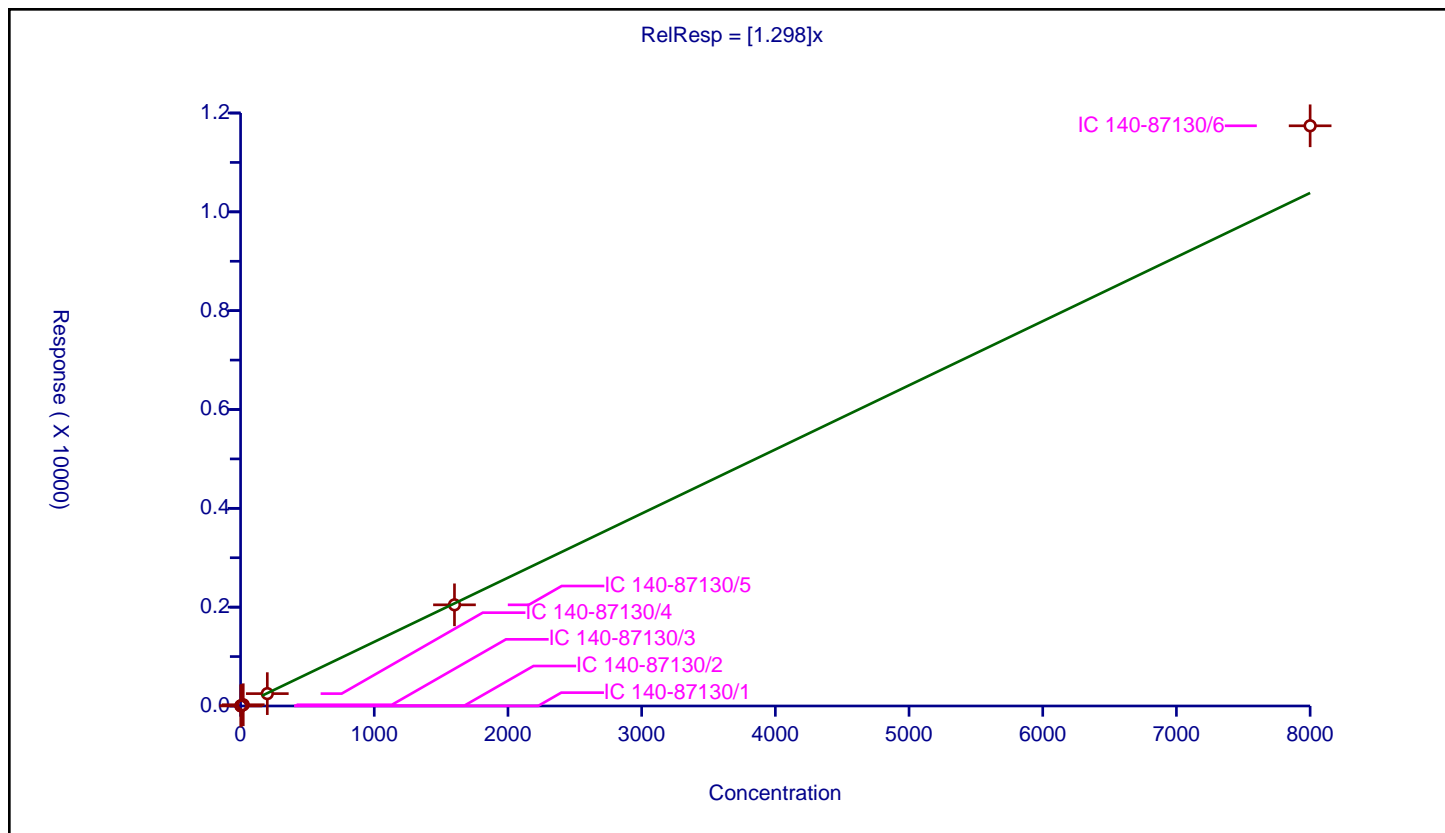
Curve Coefficients

Intercept: 0
Slope: 1.298

Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



Calibration

/ PCB-77

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

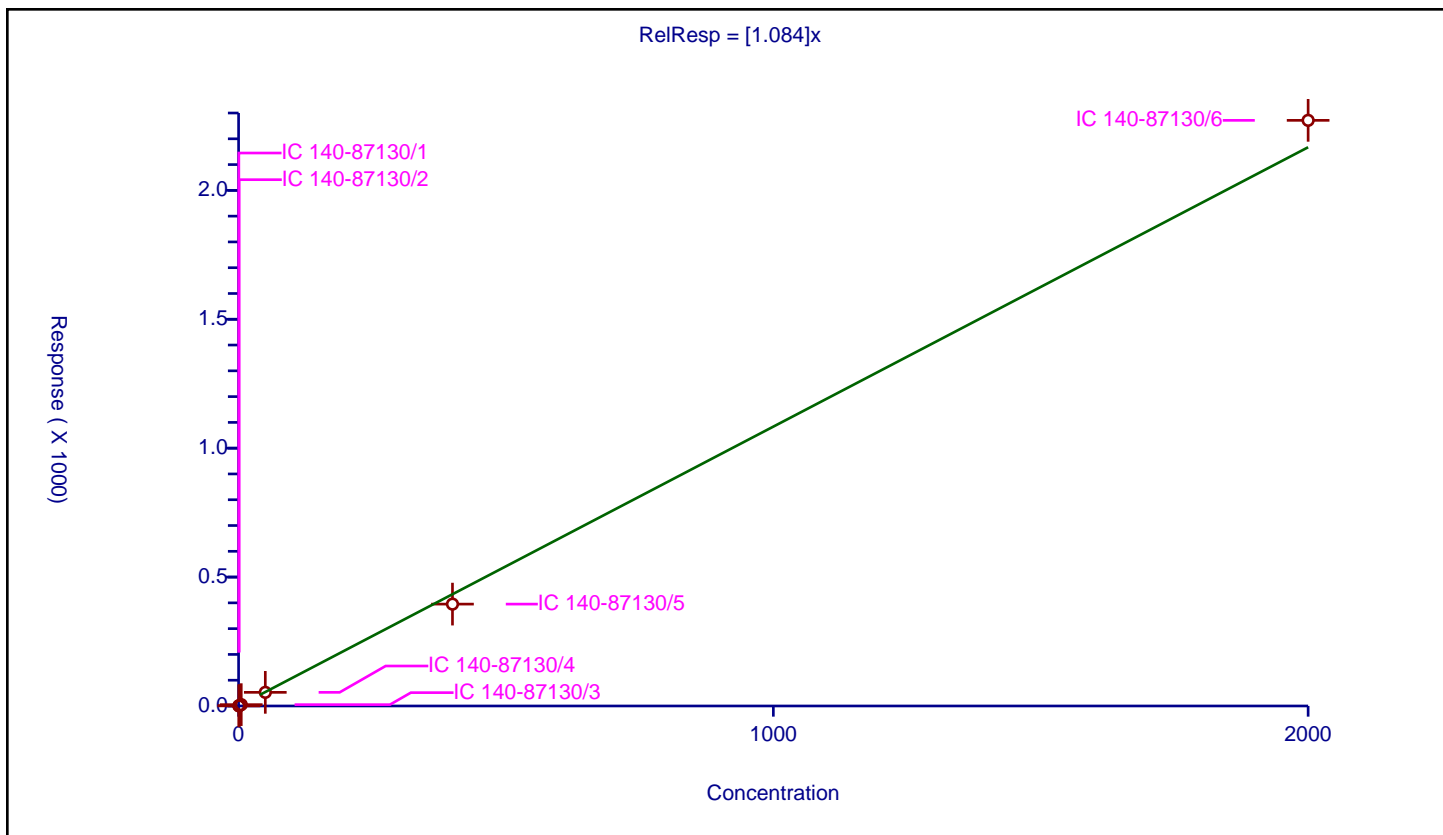
Curve Coefficients

Intercept: 0
Slope: 1.084

Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584412	100.0	11078136.0	1.168825	Y
2	IC 140-87130/2	1.0	1.114915	100.0	9952597.0	1.114915	Y
3	IC 140-87130/3	5.0	5.182303	100.0	10036639.0	1.036461	Y
4	IC 140-87130/4	50.0	52.886461	100.0	10298891.0	1.057729	Y
5	IC 140-87130/5	400.0	395.129456	100.0	11450569.0	0.987824	Y
6	IC 140-87130/6	2000.0	2271.504911	100.0	11187391.0	1.135752	Y



Calibration

/ PCB-78

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

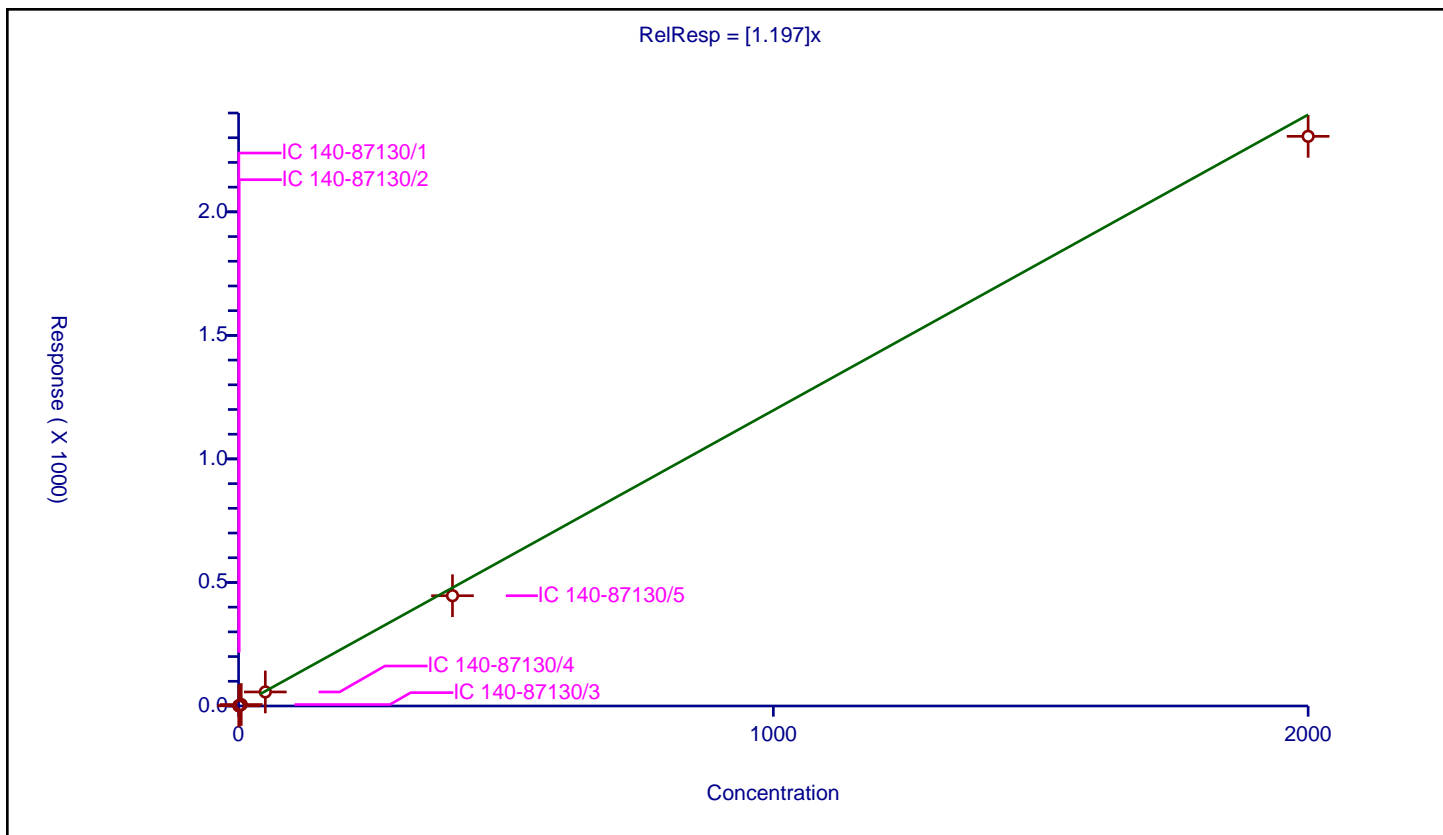
Curve Coefficients

Intercept: 0
 Slope: 1.197

Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.68414	100.0	10352263.0	1.368281	Y
2	IC 140-87130/2	1.0	1.233095	100.0	9378026.0	1.233095	Y
3	IC 140-87130/3	5.0	5.863959	100.0	9411321.0	1.172792	Y
4	IC 140-87130/4	50.0	56.827187	100.0	9689577.0	1.136544	Y
5	IC 140-87130/5	400.0	446.394099	100.0	10335461.0	1.115985	Y
6	IC 140-87130/6	2000.0	2305.628964	100.0	11264701.0	1.152814	Y



Calibration

/ PCB-79

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

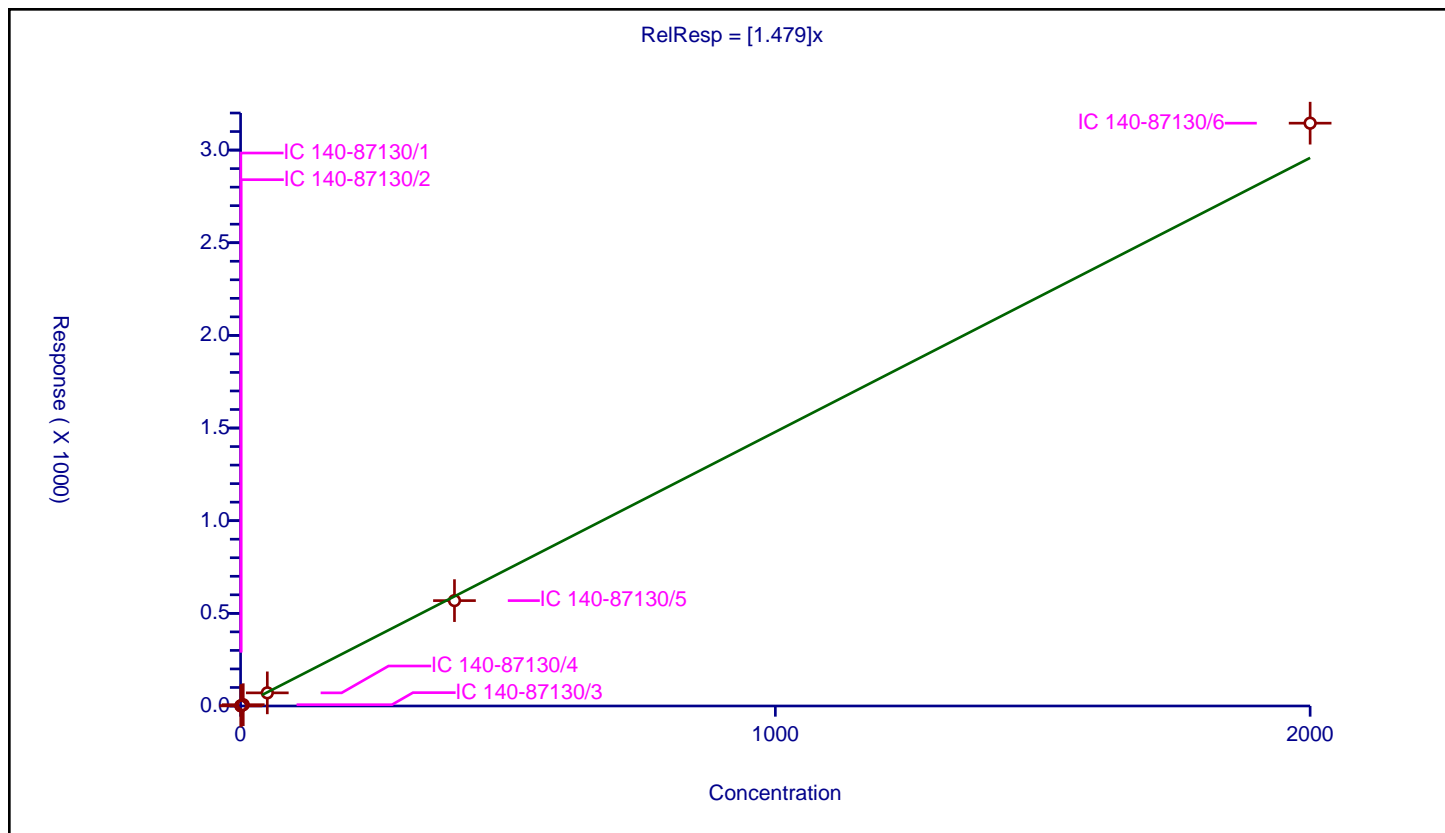
Curve Coefficients

Intercept: 0
 Slope: 1.479

Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.747614	100.0	10352263.0	1.495229	Y
2	IC 140-87130/2	1.0	1.574468	100.0	9378026.0	1.574468	Y
3	IC 140-87130/3	5.0	6.968533	100.0	9411321.0	1.393707	Y
4	IC 140-87130/4	50.0	70.814226	100.0	9689577.0	1.416285	Y
5	IC 140-87130/5	400.0	568.587033	100.0	10335461.0	1.421468	Y
6	IC 140-87130/6	2000.0	3145.18333	100.0	11264701.0	1.572592	Y



Calibration

/ PCB-79L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

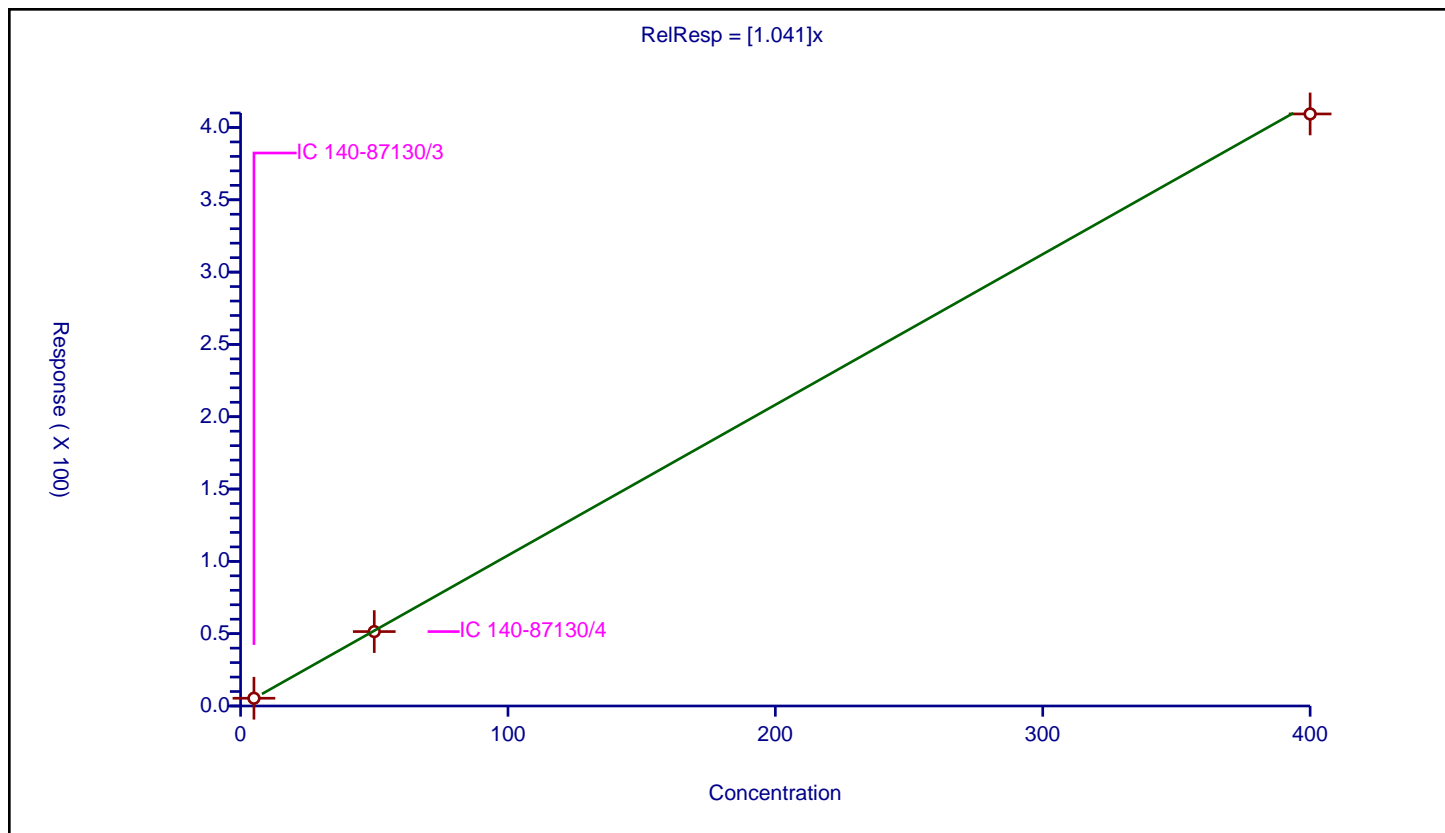
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.355592	100.0	9411321.0	1.071118	Y
2	IC 140-87130/4	50.0	51.458056	100.0	9689577.0	1.029161	Y
3	IC 140-87130/5	400.0	409.362485	100.0	10335461.0	1.023406	Y



Calibration

/ PCB-8

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

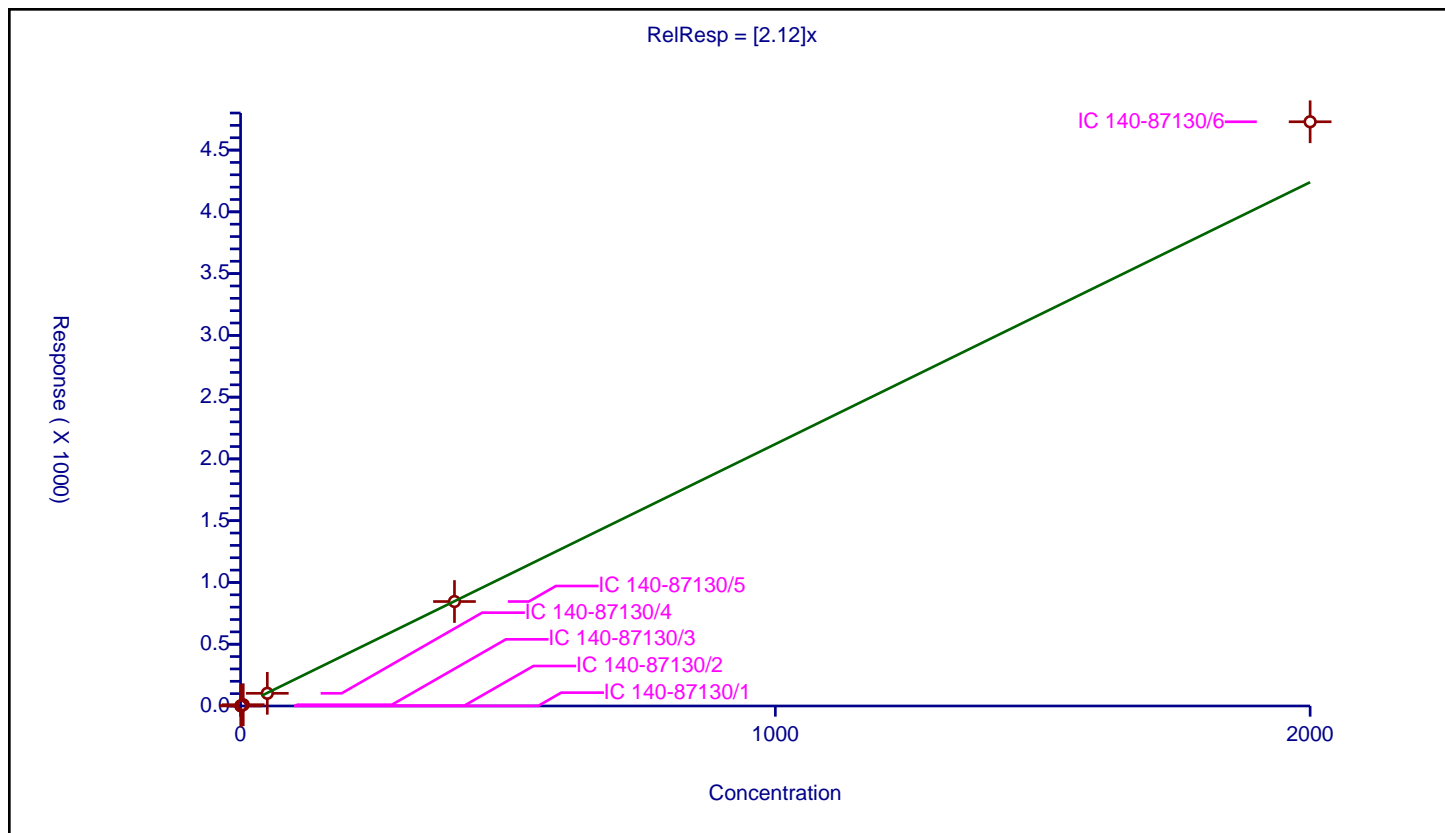
Curve Coefficients

Intercept: 0
Slope: 2.12

Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.049653	100.0	5904521.0	2.099307	Y
2	IC 140-87130/2	1.0	1.993839	100.0	5442766.0	1.993839	Y
3	IC 140-87130/3	5.0	10.469003	100.0	5279032.0	2.093801	Y
4	IC 140-87130/4	50.0	102.692094	100.0	5474214.0	2.053842	Y
5	IC 140-87130/5	400.0	845.649881	100.0	5561618.0	2.114125	Y
6	IC 140-87130/6	2000.0	4729.113967	100.0	5672202.0	2.364557	Y



Calibration

/ PCB-80

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

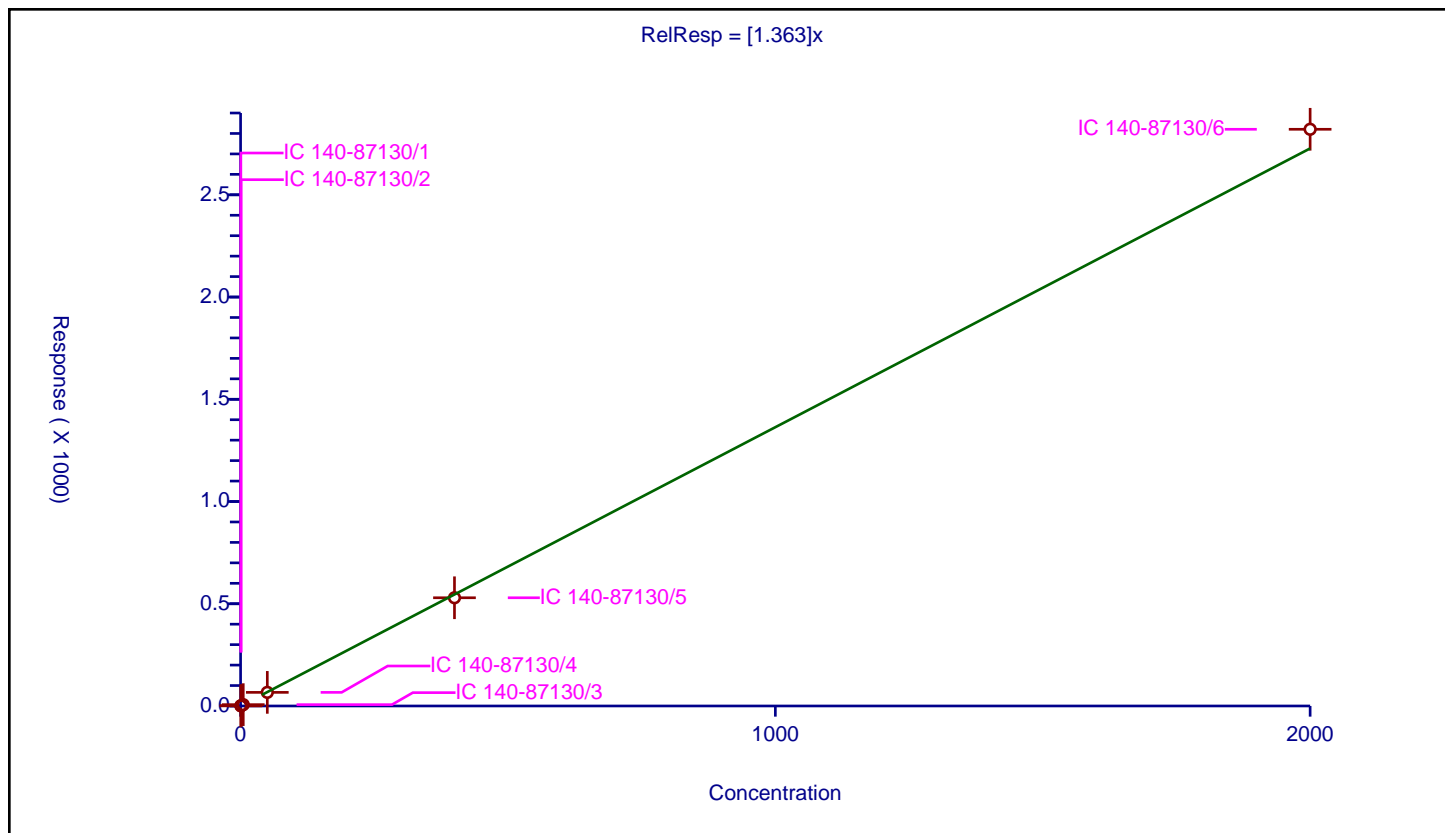
Curve Coefficients

Intercept: 0
Slope: 1.363

Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.717428	100.0	10352263.0	1.434855	Y
2	IC 140-87130/2	1.0	1.365874	100.0	9378026.0	1.365874	Y
3	IC 140-87130/3	5.0	6.57286	100.0	9411321.0	1.314572	Y
4	IC 140-87130/4	50.0	66.586498	100.0	9689577.0	1.33173	Y
5	IC 140-87130/5	400.0	529.284528	100.0	10335461.0	1.323211	Y
6	IC 140-87130/6	2000.0	2820.449358	100.0	11264701.0	1.410225	Y



Calibration

/ PCB-81

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

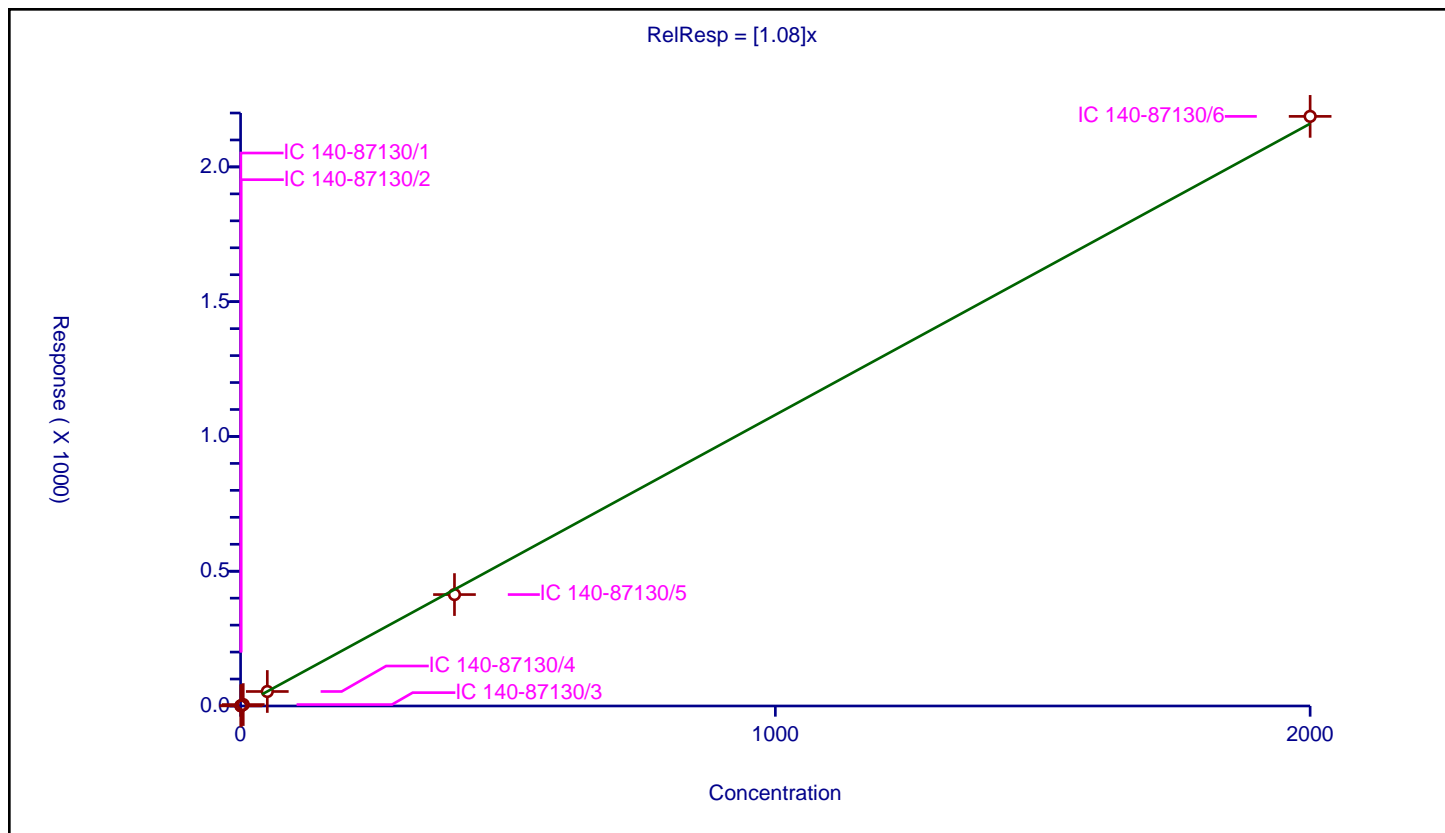
Curve Coefficients

Intercept: 0
Slope: 1.08

Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559887	100.0	10352263.0	1.119774	Y
2	IC 140-87130/2	1.0	1.09602	100.0	9378026.0	1.09602	Y
3	IC 140-87130/3	5.0	5.308309	100.0	9411321.0	1.061662	Y
4	IC 140-87130/4	50.0	53.818067	100.0	9689577.0	1.076361	Y
5	IC 140-87130/5	400.0	413.444625	100.0	10335461.0	1.033612	Y
6	IC 140-87130/6	2000.0	2187.539341	100.0	11264701.0	1.09377	Y



Calibration

/ PCB-82

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

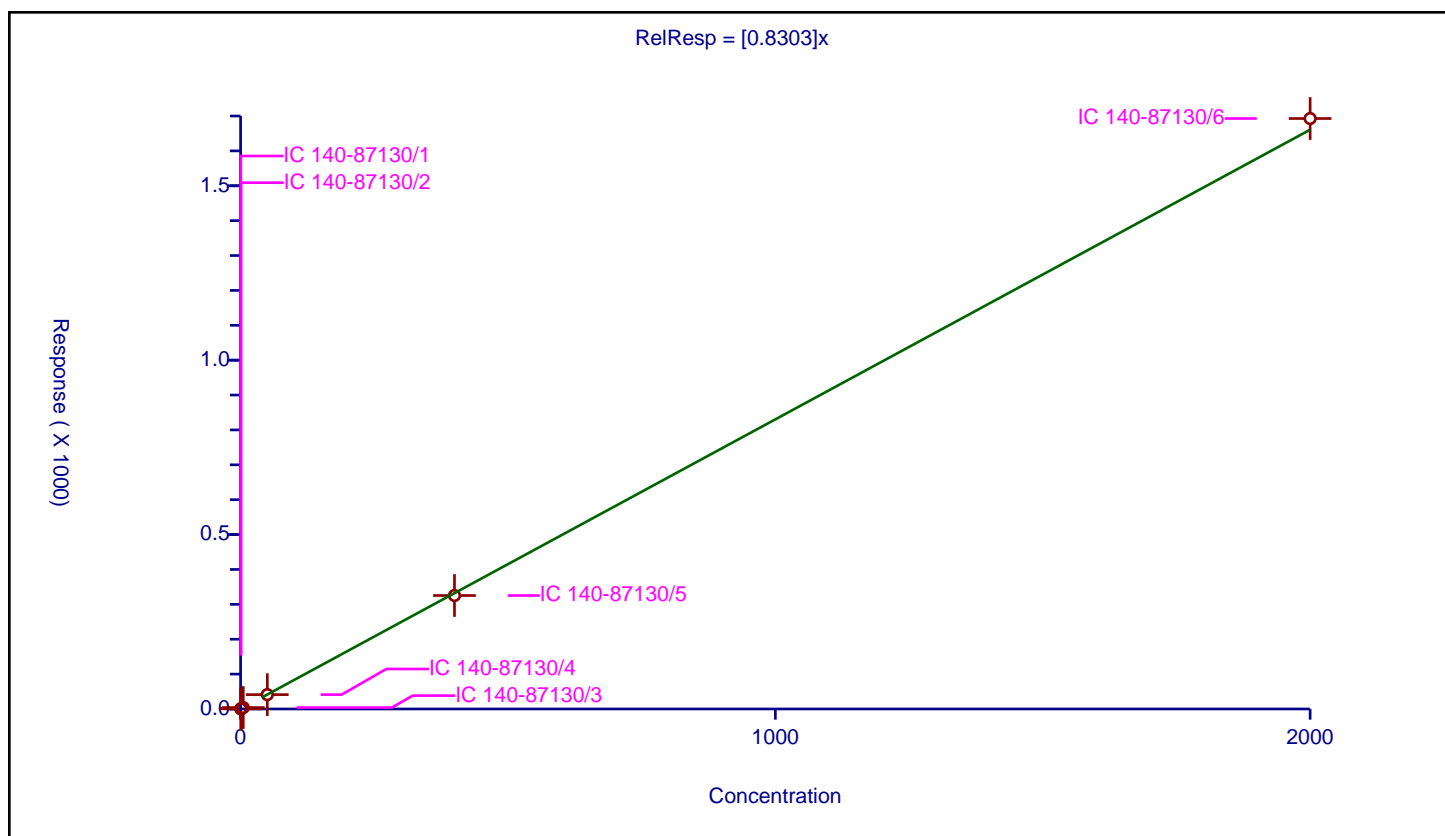
Curve Coefficients

Intercept: 0
 Slope: 0.8303

Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.417147	100.0	6938320.0	0.834294	Y
2	IC 140-87130/2	1.0	0.847078	100.0	6240748.0	0.847078	Y
3	IC 140-87130/3	5.0	4.084679	100.0	6307301.0	0.816936	Y
4	IC 140-87130/4	50.0	41.196704	100.0	6455349.0	0.823934	Y
5	IC 140-87130/5	400.0	325.326952	100.0	6672003.0	0.813317	Y
6	IC 140-87130/6	2000.0	1692.81655	100.0	6975966.0	0.846408	Y



Calibration

/ PCB-83

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

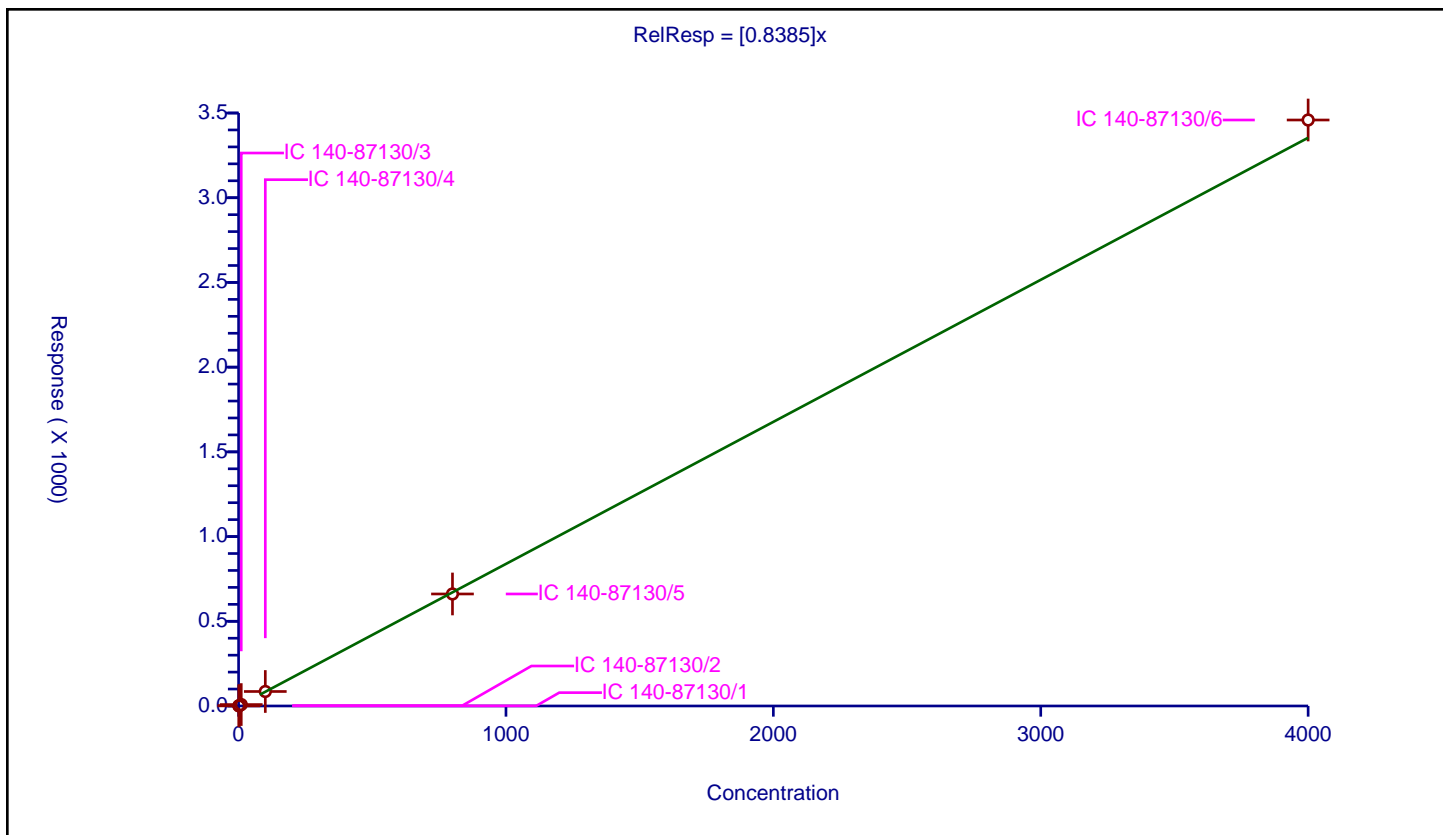
Curve Coefficients

Intercept: 0
 Slope: 0.8385

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



Calibration

/ PCB-83/99

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

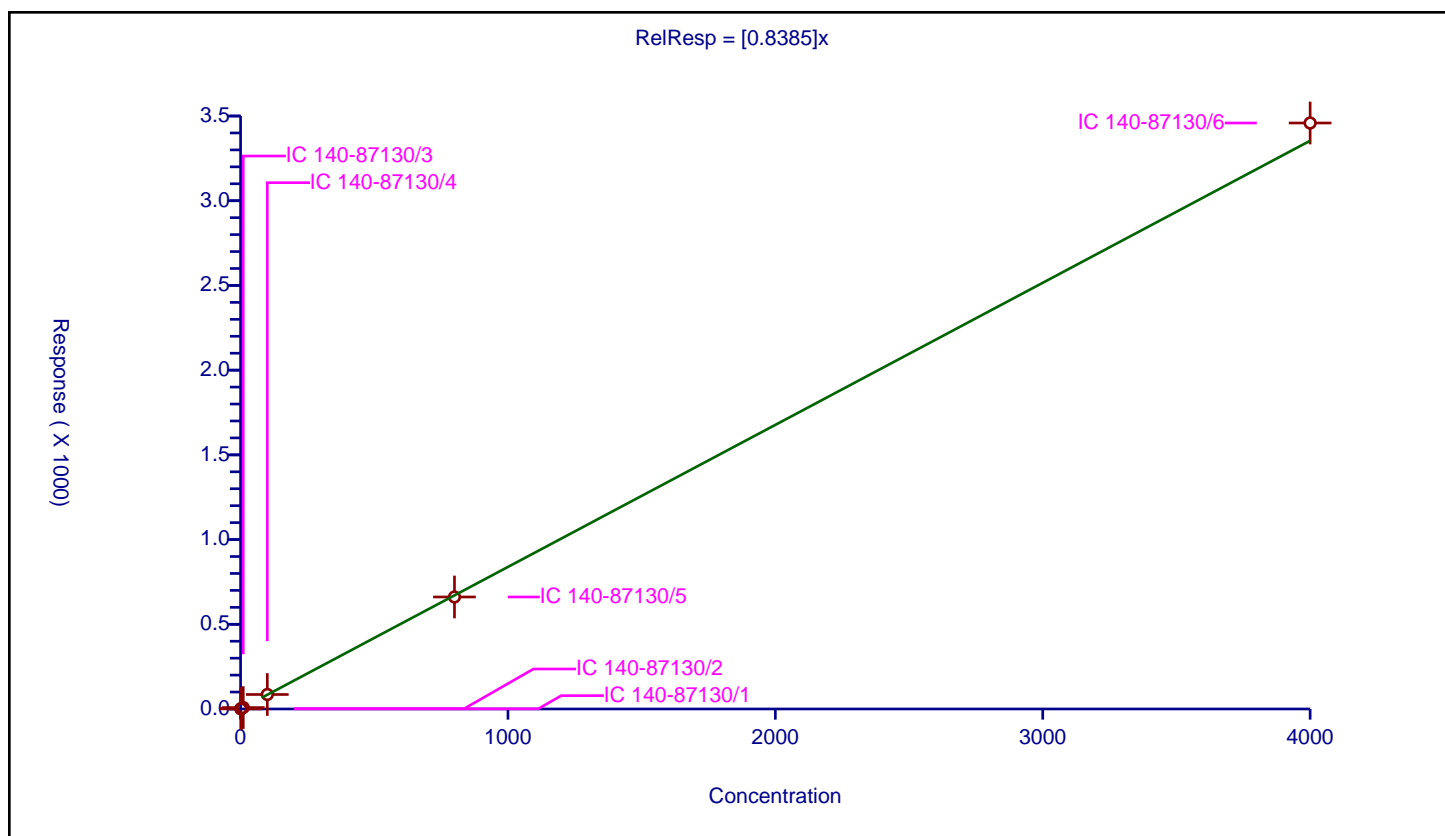
Curve Coefficients

Intercept: 0
 Slope: 0.8385

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



Calibration

/ PCB-84

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

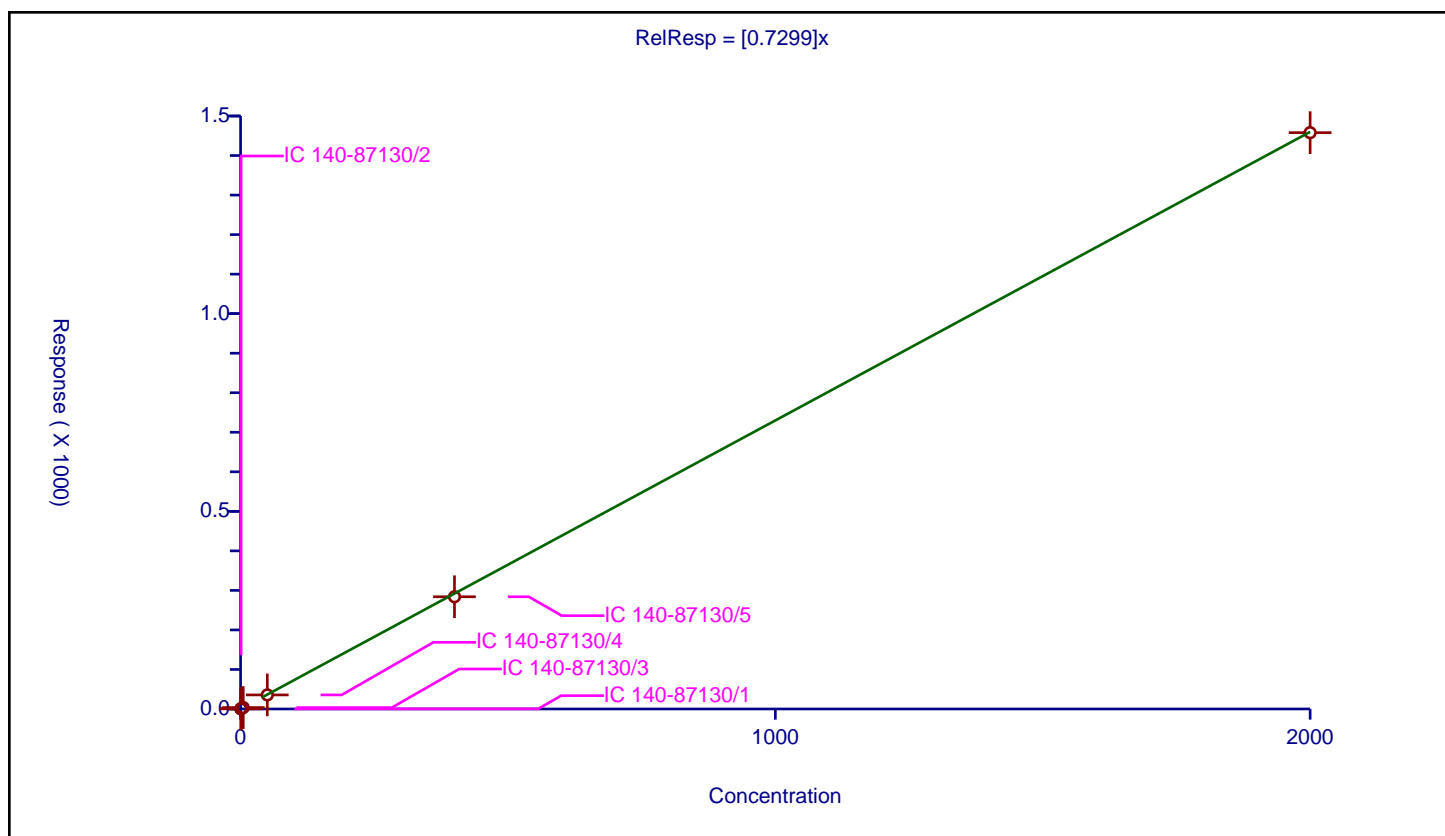
Curve Coefficients

Intercept: 0
 Slope: 0.7299

Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.362638	100.0	6938320.0	0.725276	Y
2	IC 140-87130/2	1.0	0.788015	100.0	6240748.0	0.788015	Y
3	IC 140-87130/3	5.0	3.578979	100.0	6307301.0	0.715796	Y
4	IC 140-87130/4	50.0	35.589292	100.0	6455349.0	0.711786	Y
5	IC 140-87130/5	400.0	283.911983	100.0	6672003.0	0.70978	Y
6	IC 140-87130/6	2000.0	1457.890993	100.0	6975966.0	0.728945	Y



Calibration

/ PCB-85

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

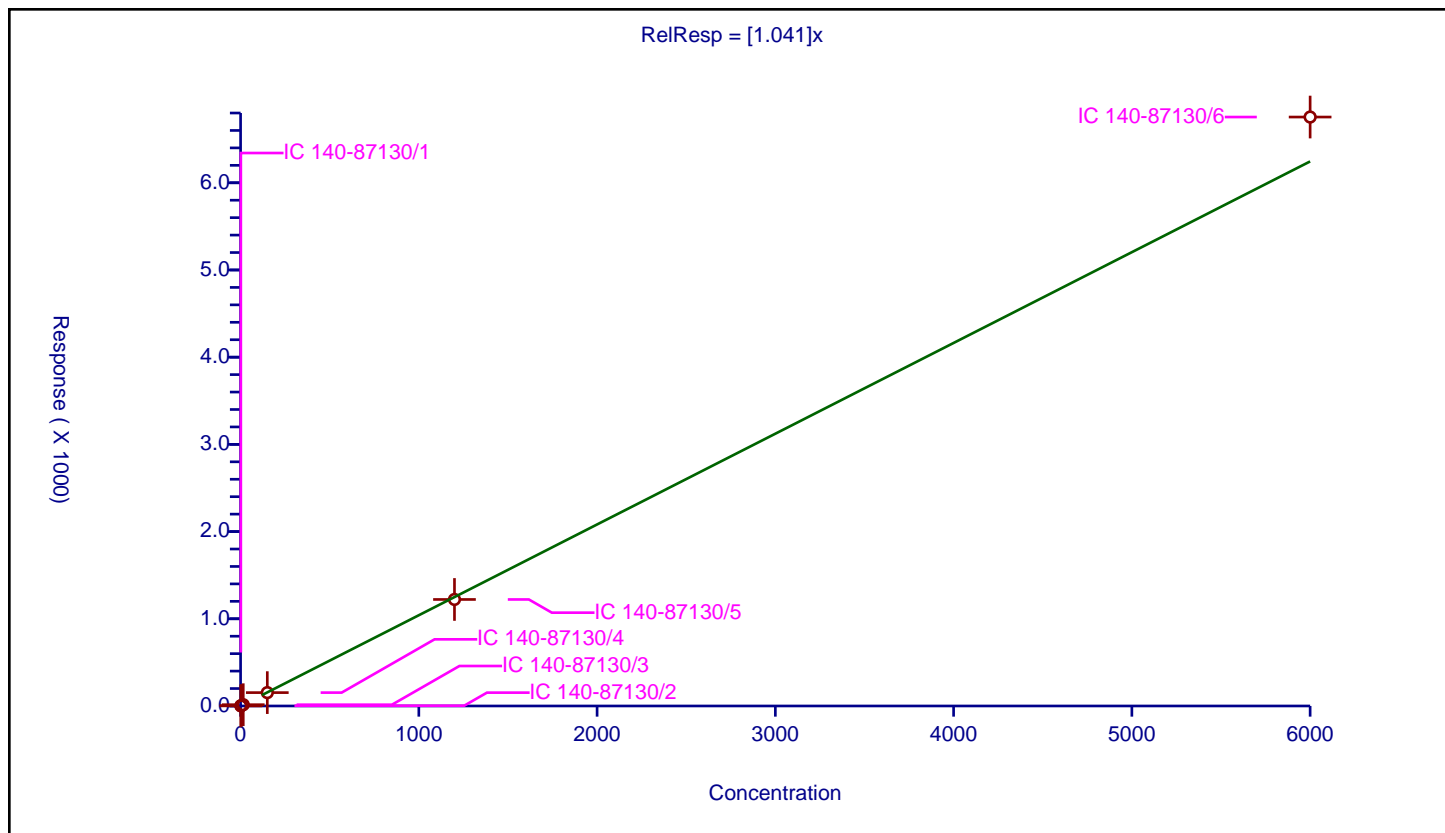
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Calibration

/ PCB-85/116/117

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

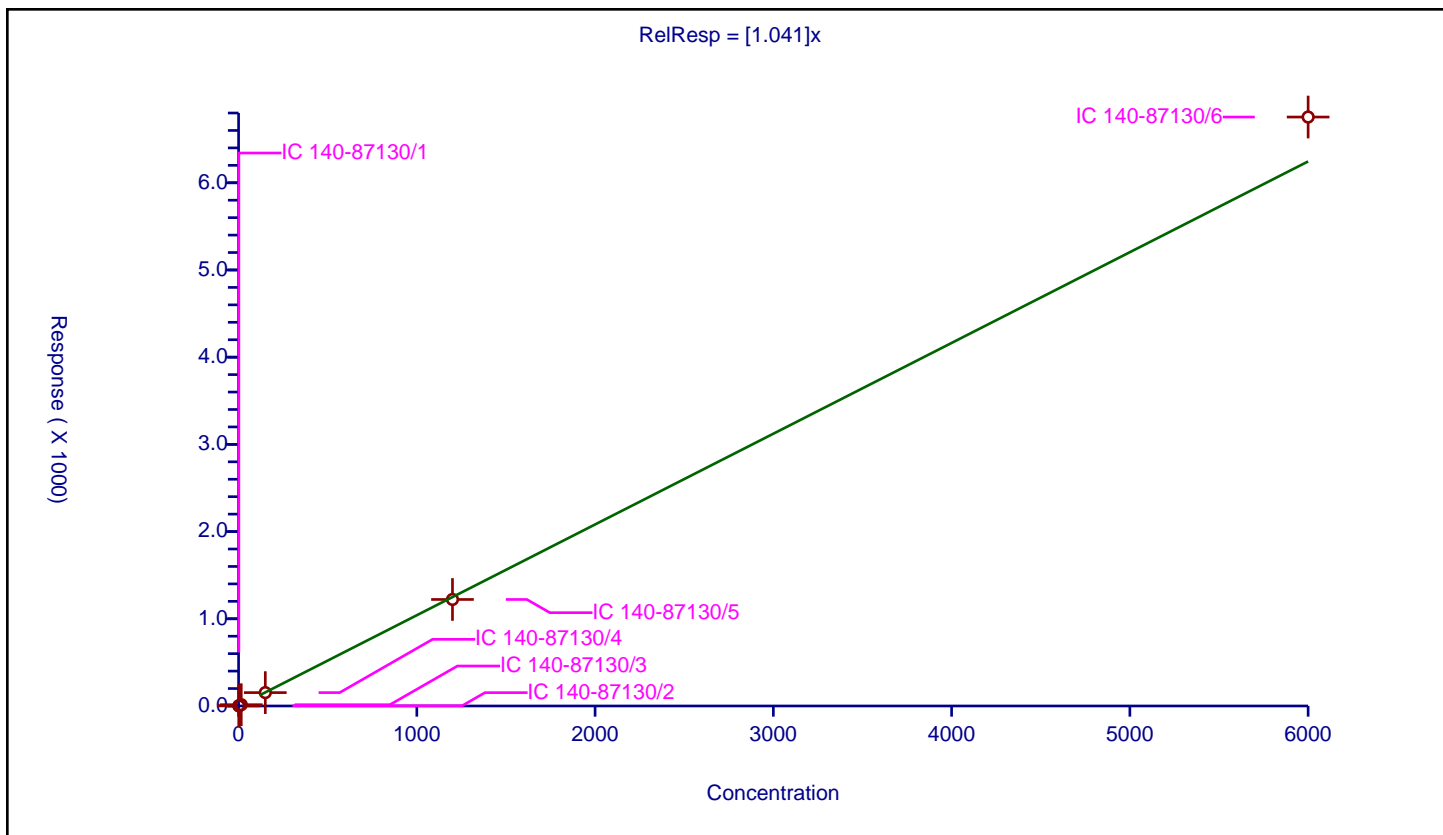
Curve Coefficients

Intercept: 0
 Slope: 1.041

Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

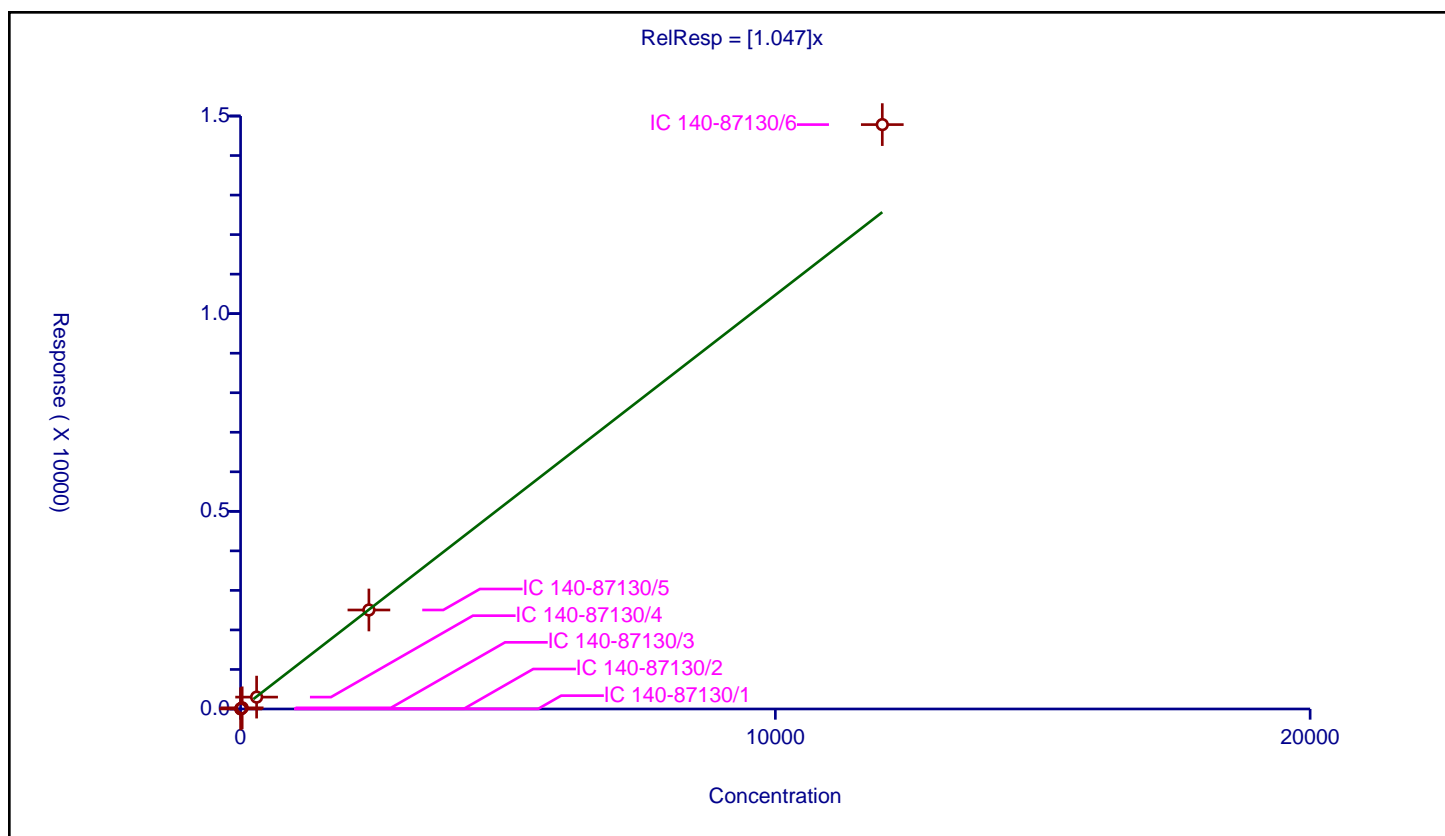
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-86/87/97/109/119/125

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

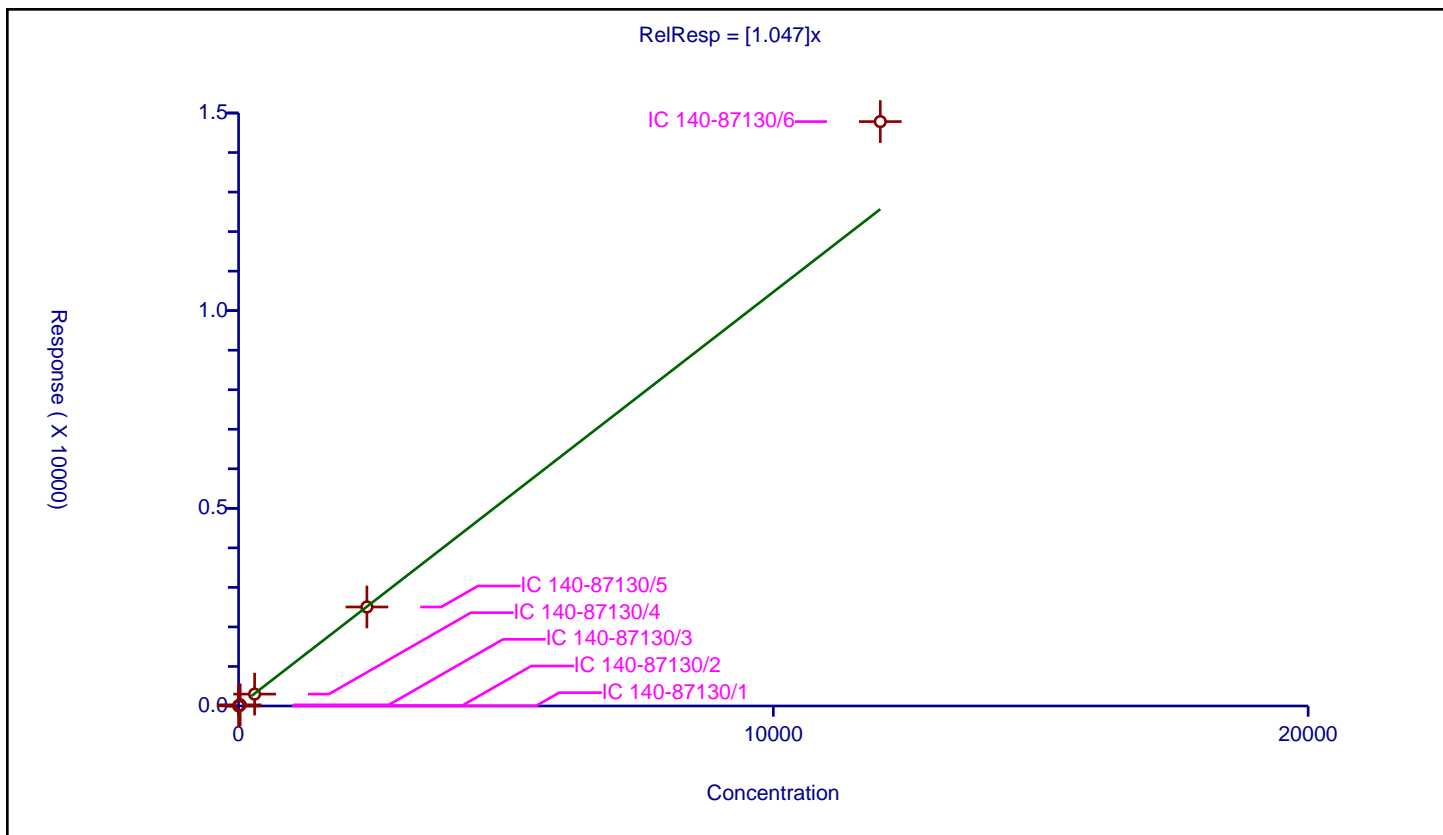
Curve Coefficients

Intercept: 0
 Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-87

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

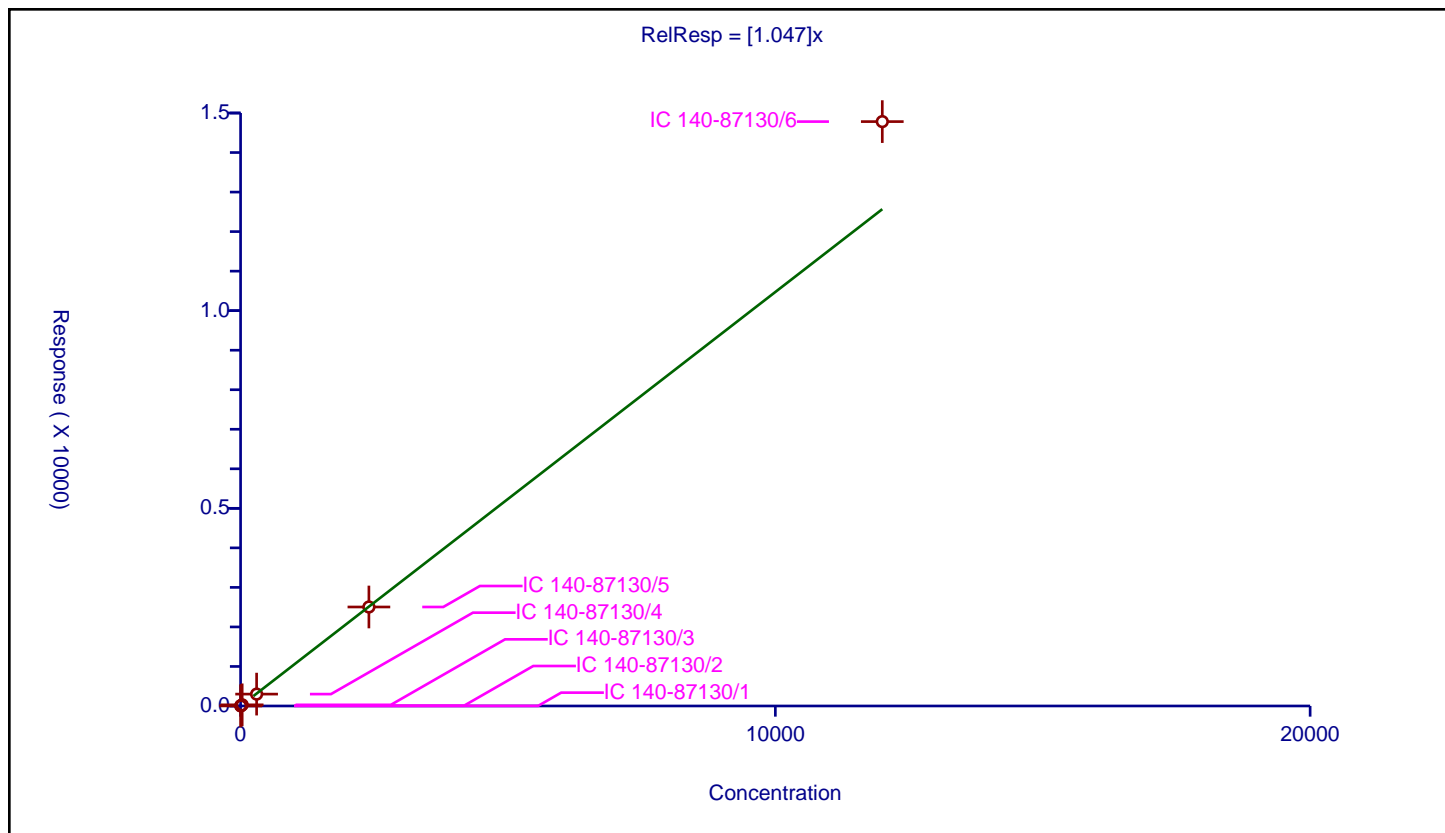
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-88

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

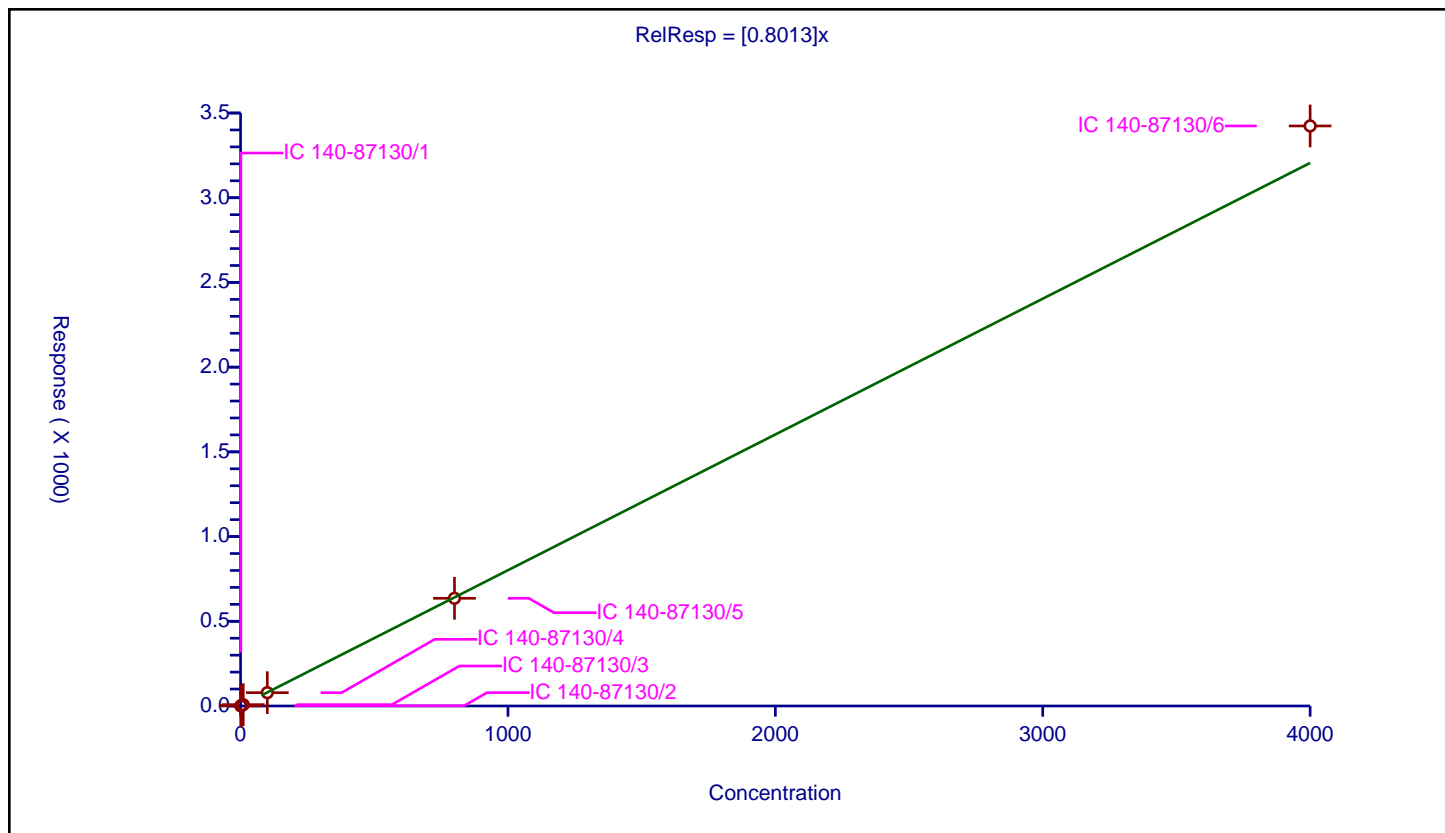
Curve Coefficients

Intercept: 0
Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-88/91

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

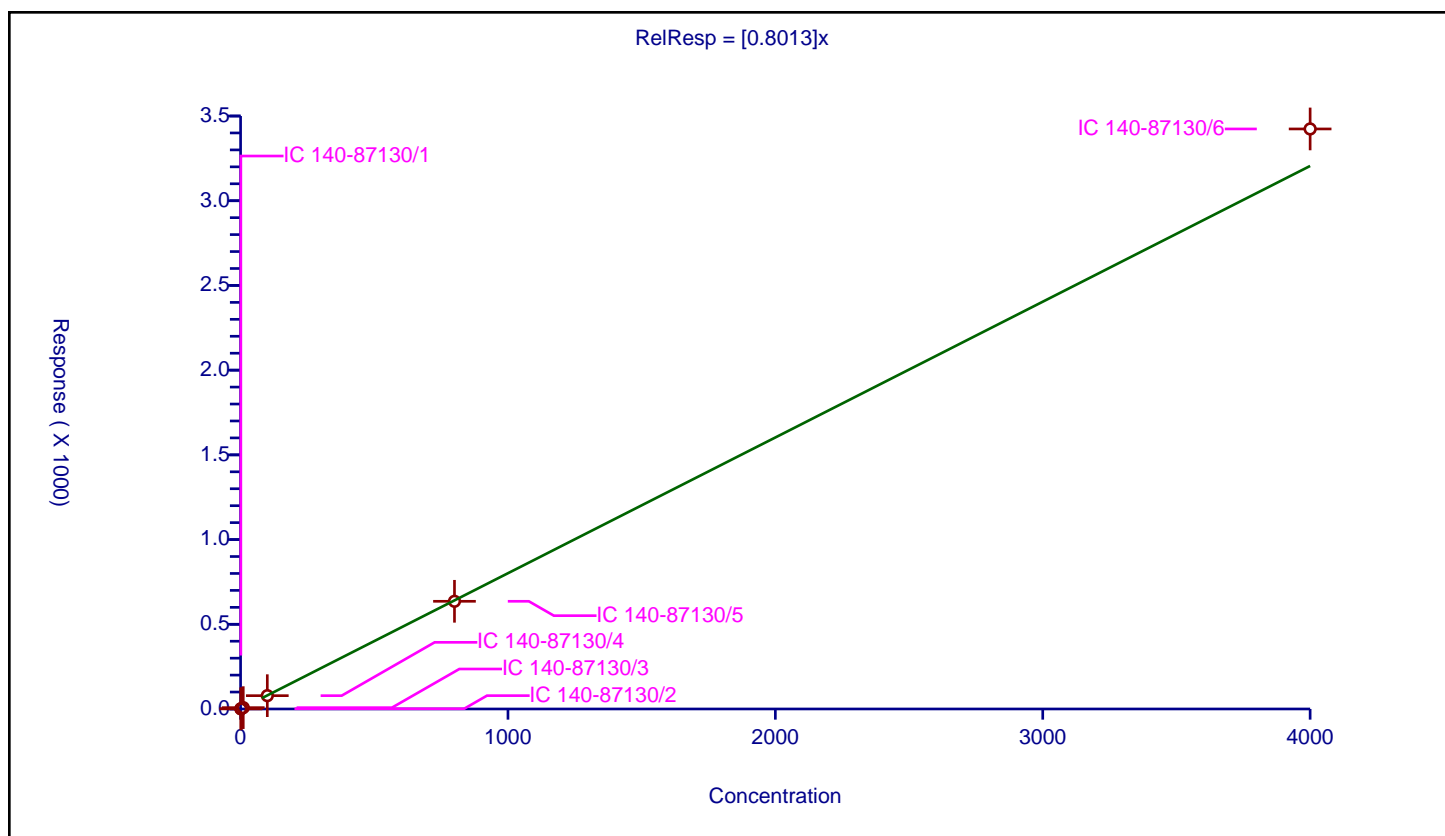
Curve Coefficients

Intercept: 0
 Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-89

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

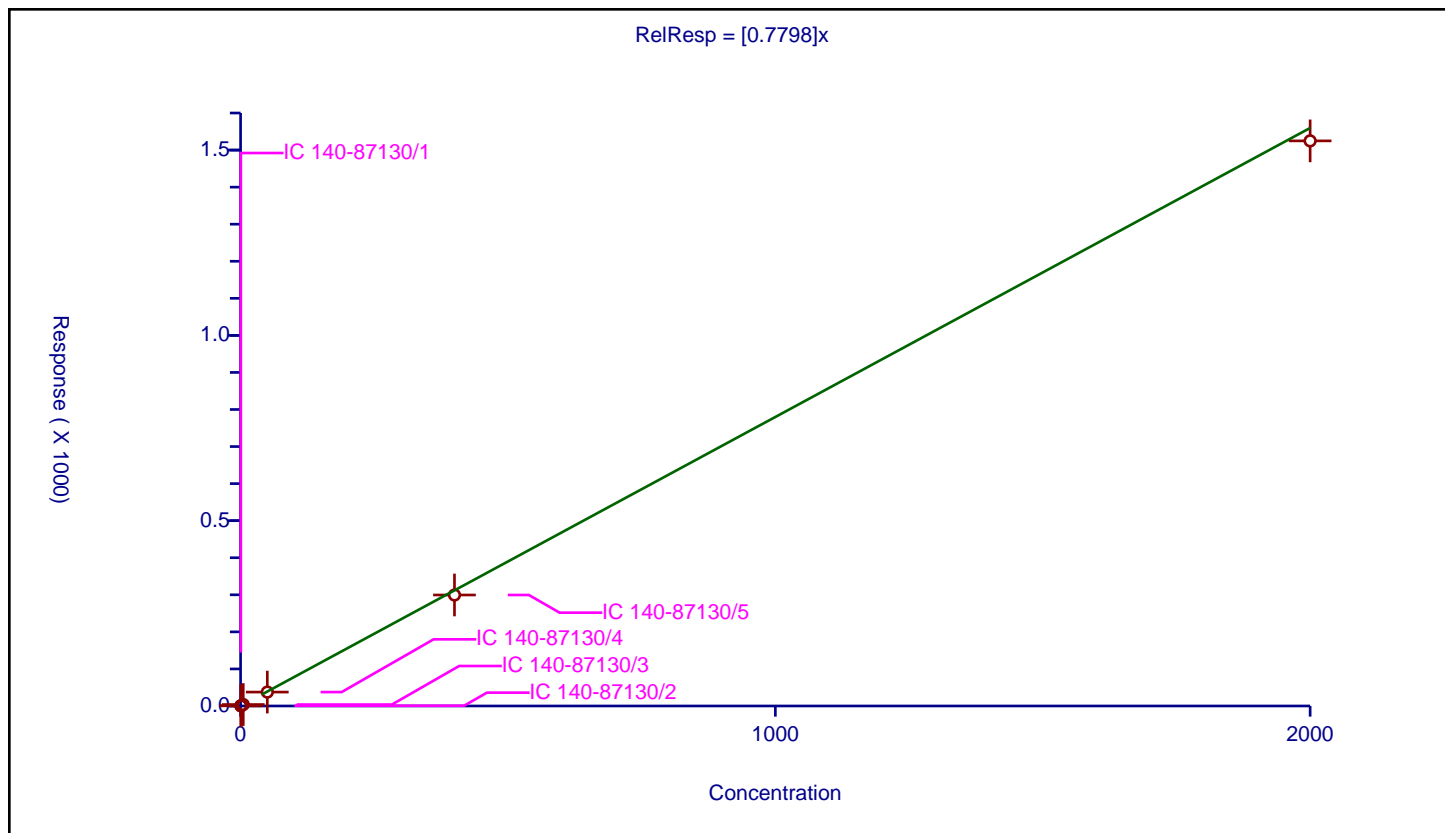
Curve Coefficients

Intercept: 0
 Slope: 0.7798

Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.445929	100.0	6938320.0	0.891859	Y
2	IC 140-87130/2	1.0	0.746401	100.0	6240748.0	0.746401	Y
3	IC 140-87130/3	5.0	3.892885	100.0	6307301.0	0.778577	Y
4	IC 140-87130/4	50.0	37.551587	100.0	6455349.0	0.751032	Y
5	IC 140-87130/5	400.0	299.471148	100.0	6672003.0	0.748678	Y
6	IC 140-87130/6	2000.0	1524.826153	100.0	6975966.0	0.762413	Y



Calibration

/ PCB-8L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

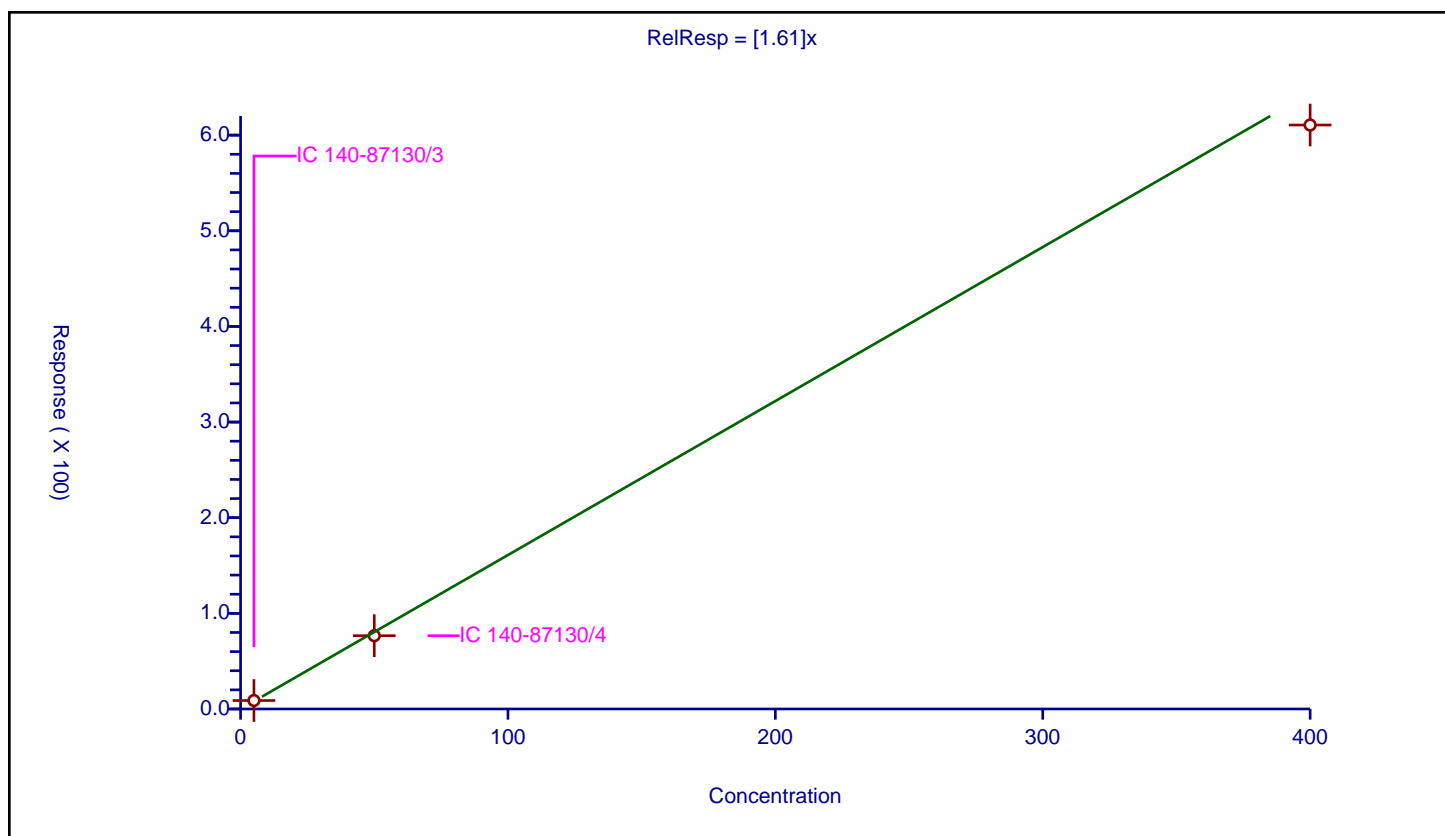
Curve Coefficients

Intercept: 0
 Slope: 1.61

Error Coefficients

Relative Standard Deviation: 8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	8.853044	100.0	5279032.0	1.770609	Y
2	IC 140-87130/4	50.0	76.624626	100.0	5474214.0	1.532493	Y
3	IC 140-87130/5	400.0	610.583449	100.0	5561618.0	1.526459	Y



Calibration

/ PCB-9

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

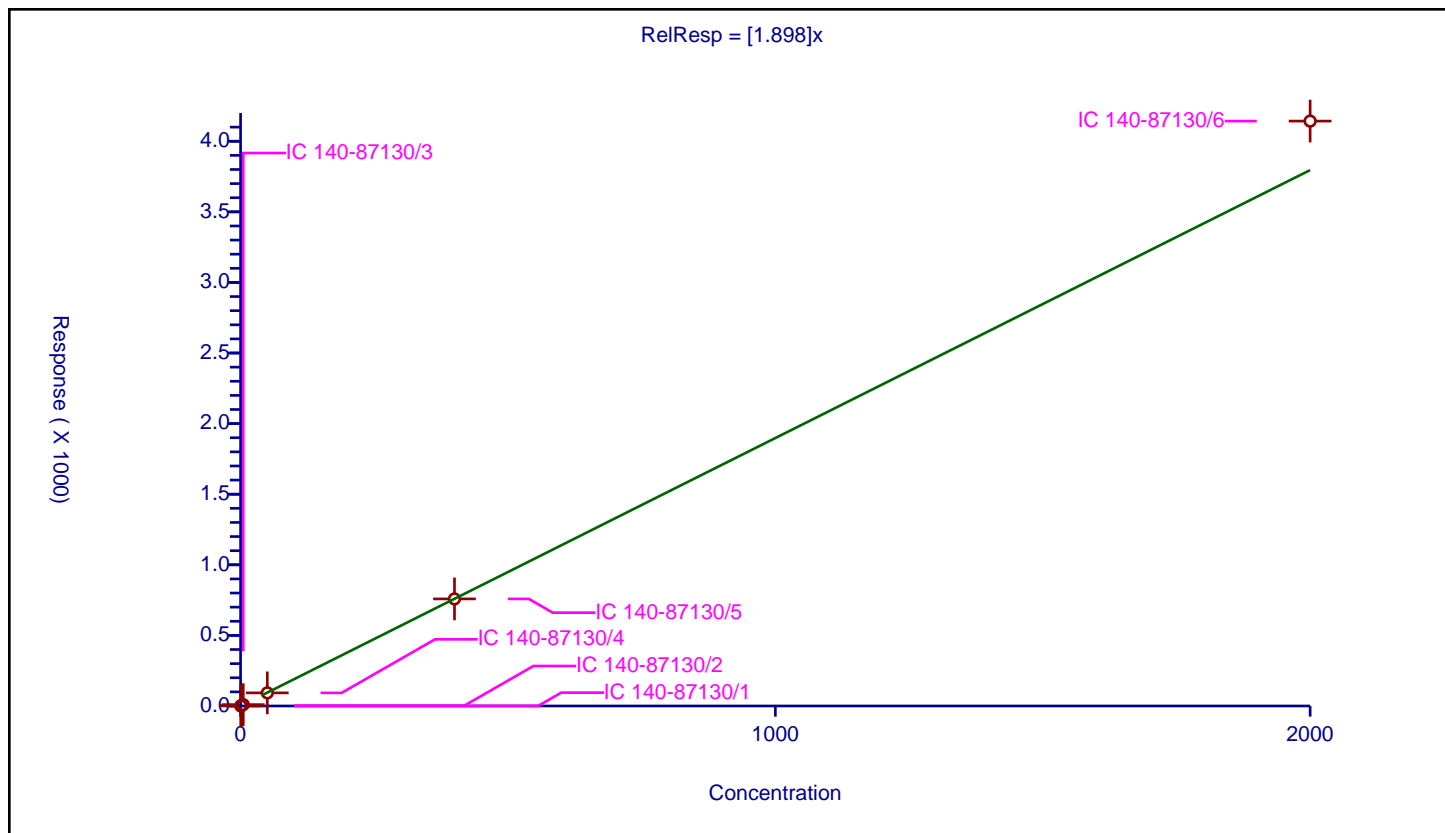
Curve Coefficients

Intercept: 0
 Slope: 1.898

Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.87223	100.0	5904521.0	1.74446	Y
2	IC 140-87130/2	1.0	1.869803	100.0	5442766.0	1.869803	Y
3	IC 140-87130/3	5.0	9.73902	100.0	5279032.0	1.947804	Y
4	IC 140-87130/4	50.0	92.863195	100.0	5474214.0	1.857264	Y
5	IC 140-87130/5	400.0	758.446067	100.0	5561618.0	1.896115	Y
6	IC 140-87130/6	2000.0	4142.830439	100.0	5672202.0	2.071415	Y



Calibration

/ PCB-90

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

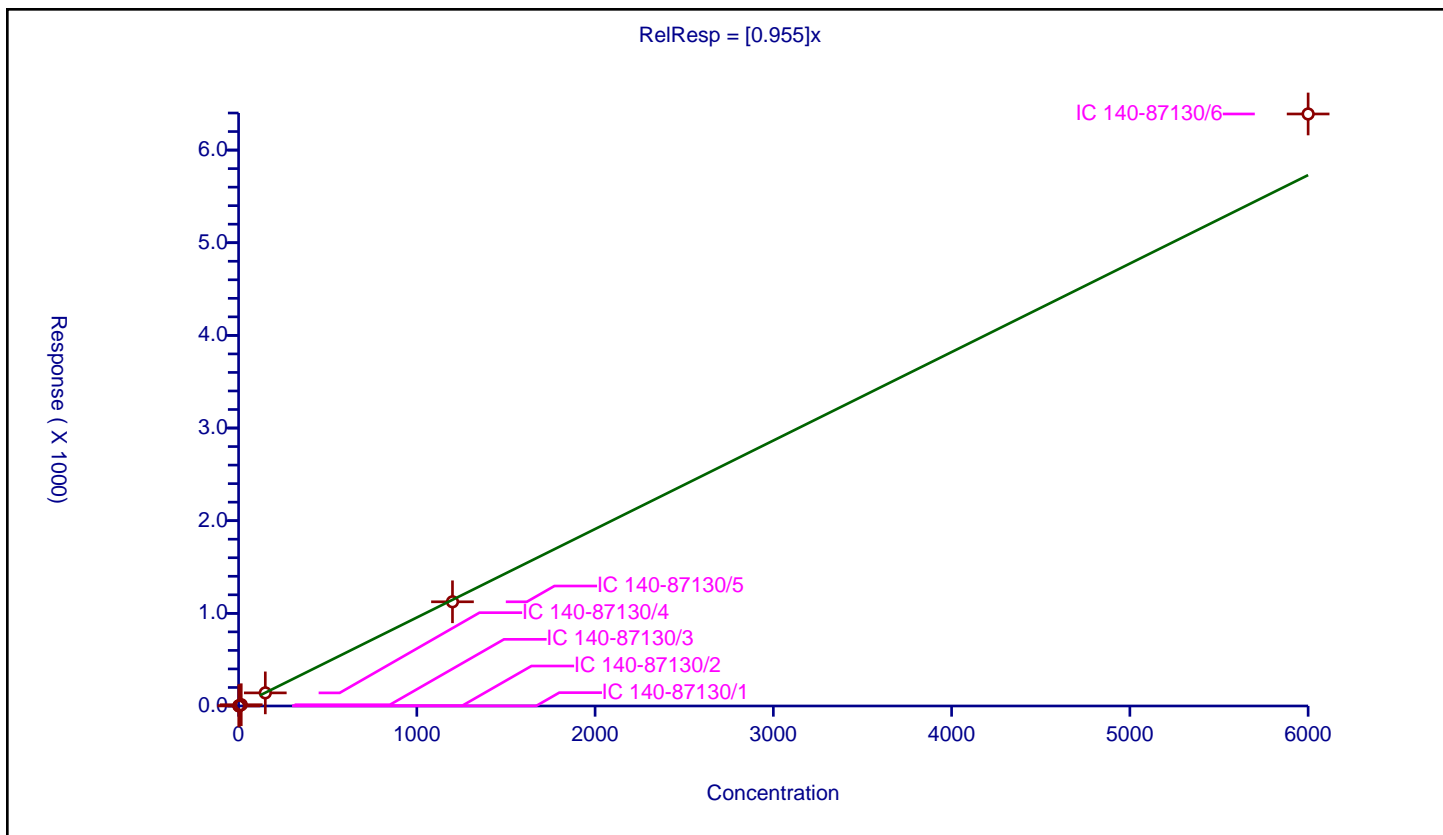
Curve Coefficients

Intercept: 0
Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-90/101/113

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

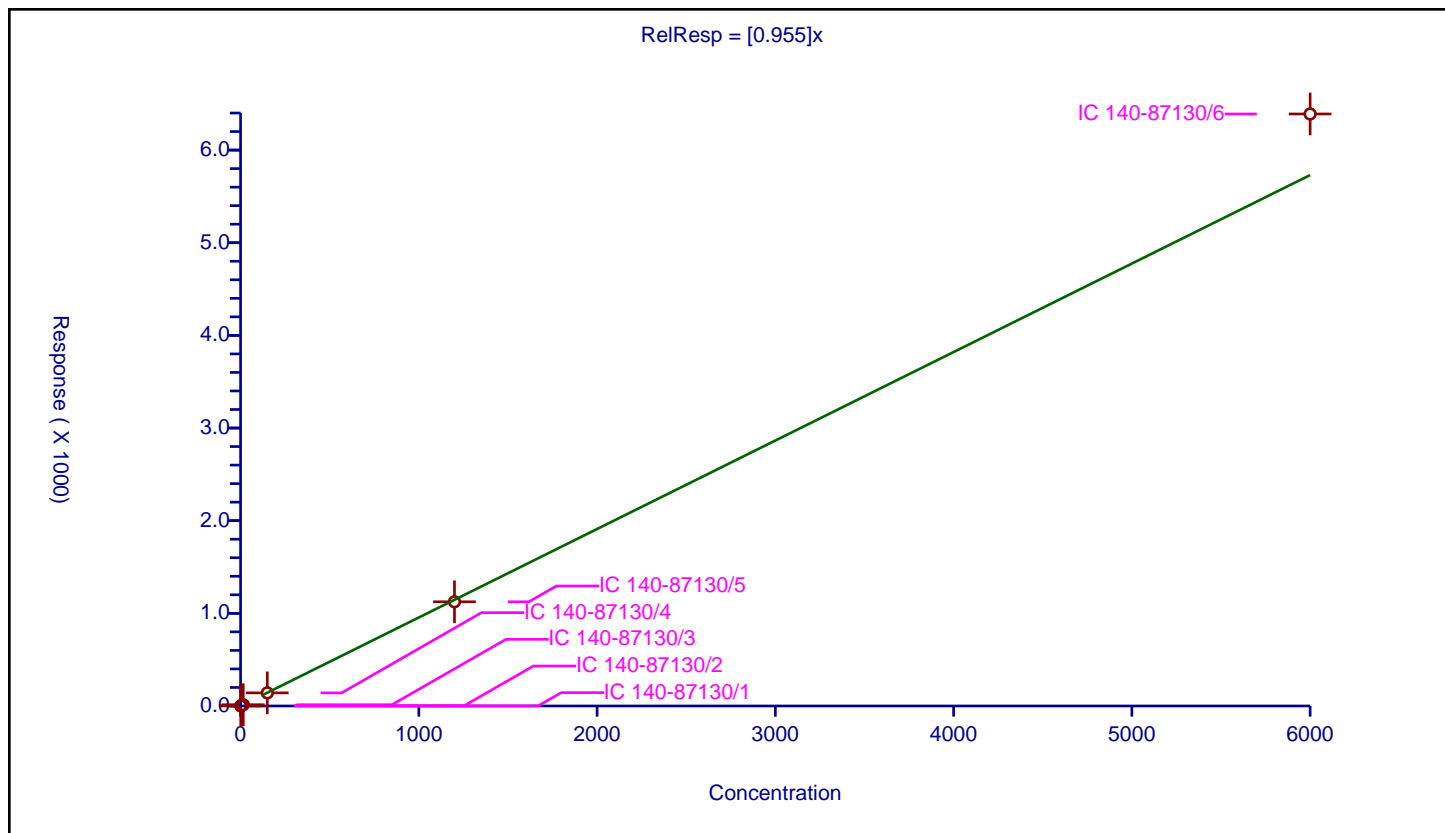
Curve Coefficients

Intercept: 0
 Slope: 0.955

Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Calibration

/ PCB-91

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

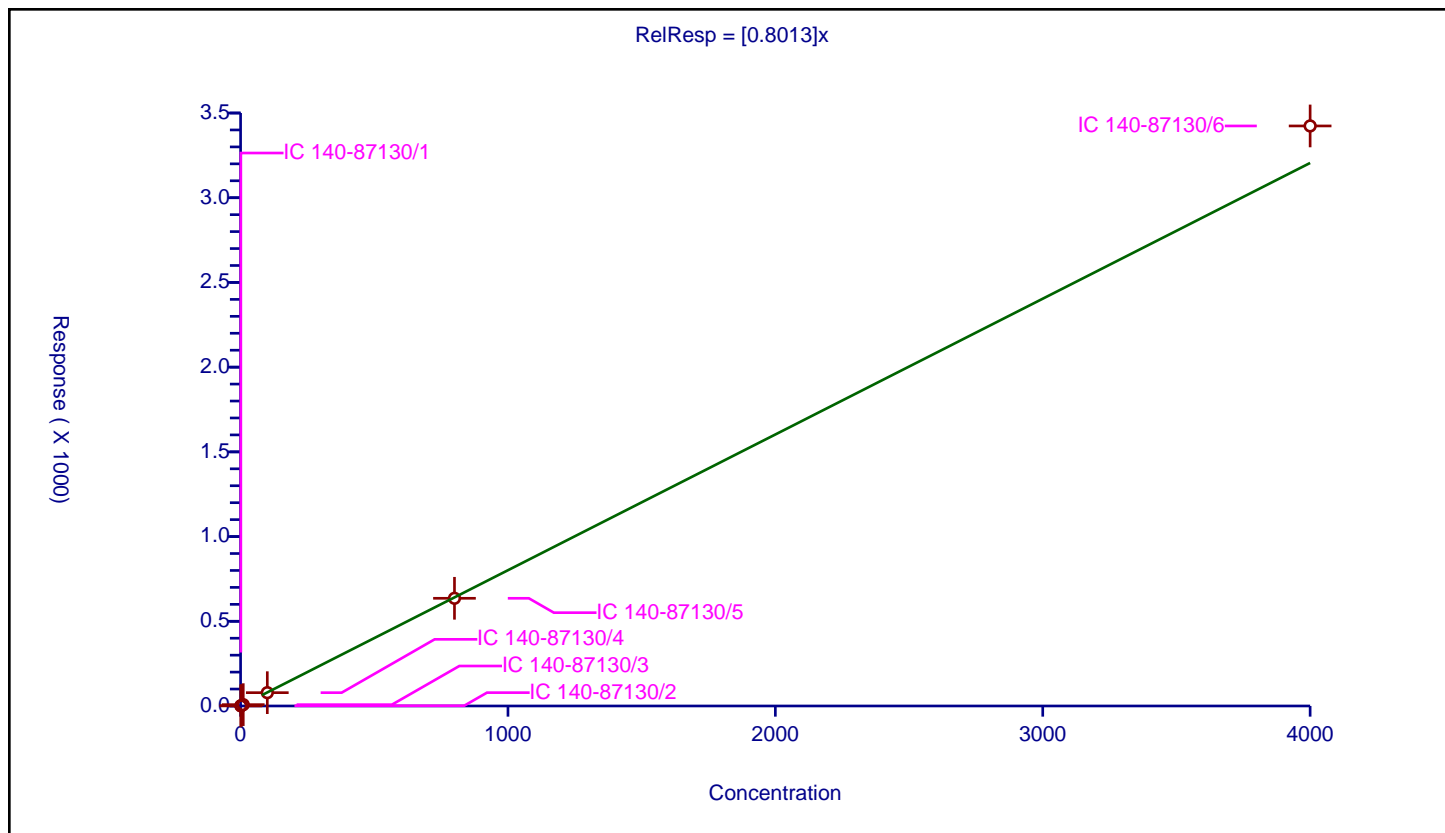
Curve Coefficients

Intercept: 0
 Slope: 0.8013

Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



Calibration

/ PCB-92

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

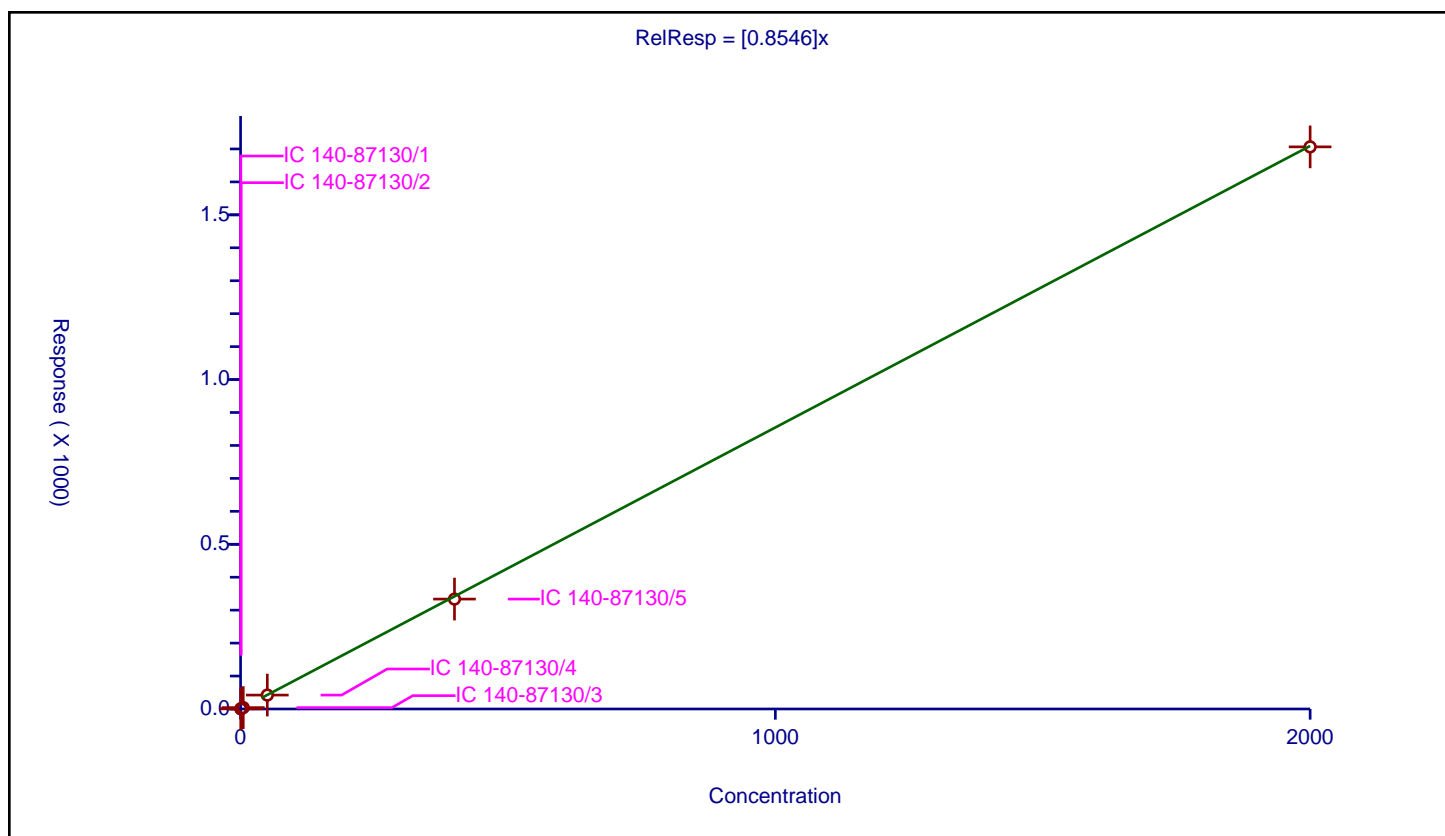
Curve Coefficients

Intercept: 0
Slope: 0.8546

Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.431473	100.0	6938320.0	0.862947	Y
2	IC 140-87130/2	1.0	0.905997	100.0	6240748.0	0.905997	Y
3	IC 140-87130/3	5.0	4.13589	100.0	6307301.0	0.827178	Y
4	IC 140-87130/4	50.0	42.202954	100.0	6455349.0	0.844059	Y
5	IC 140-87130/5	400.0	333.604152	100.0	6672003.0	0.83401	Y
6	IC 140-87130/6	2000.0	1706.355808	100.0	6975966.0	0.853178	Y



Calibration

/ PCB-93

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

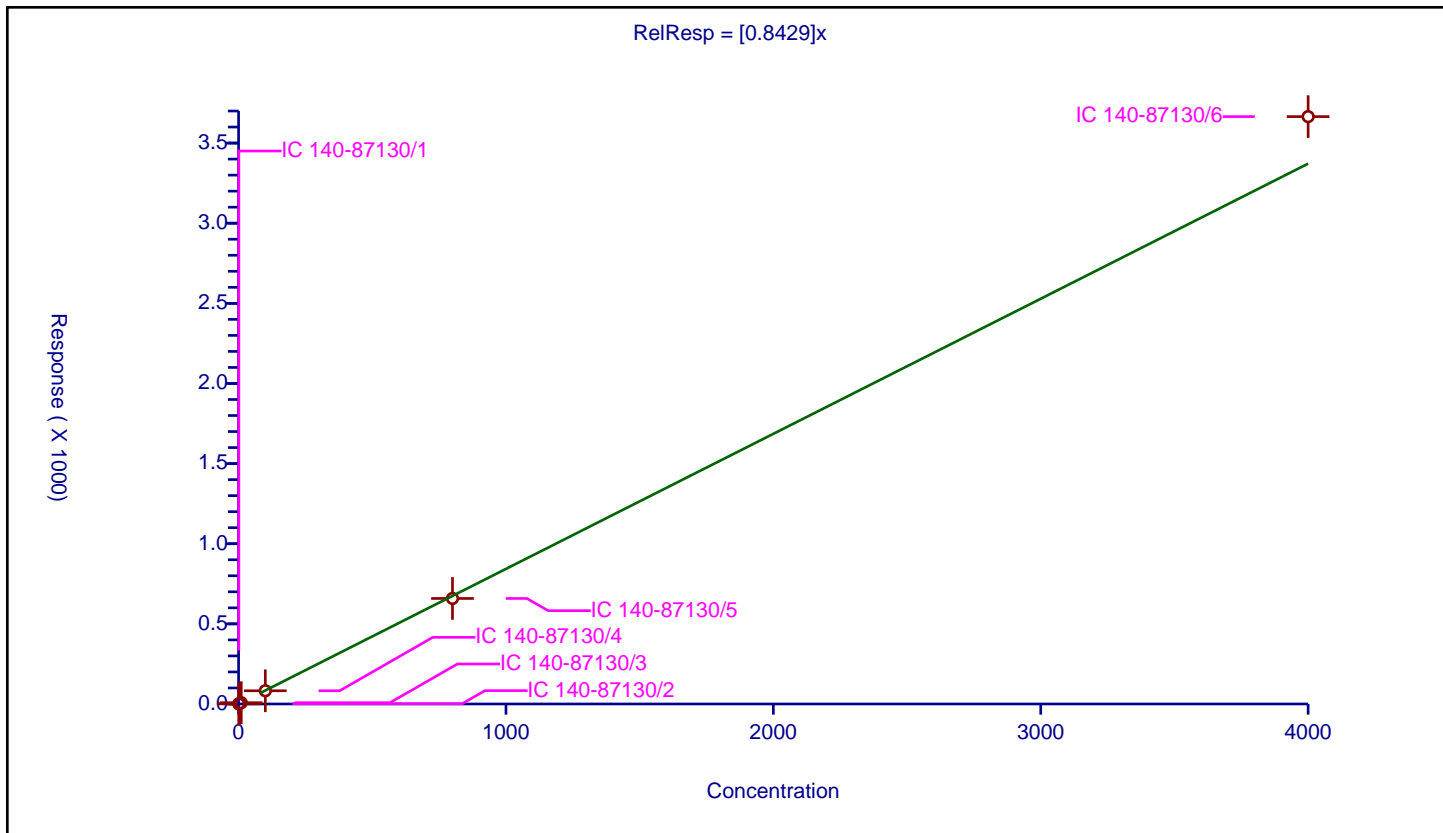
Curve Coefficients

Intercept: 0
Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-93/100

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

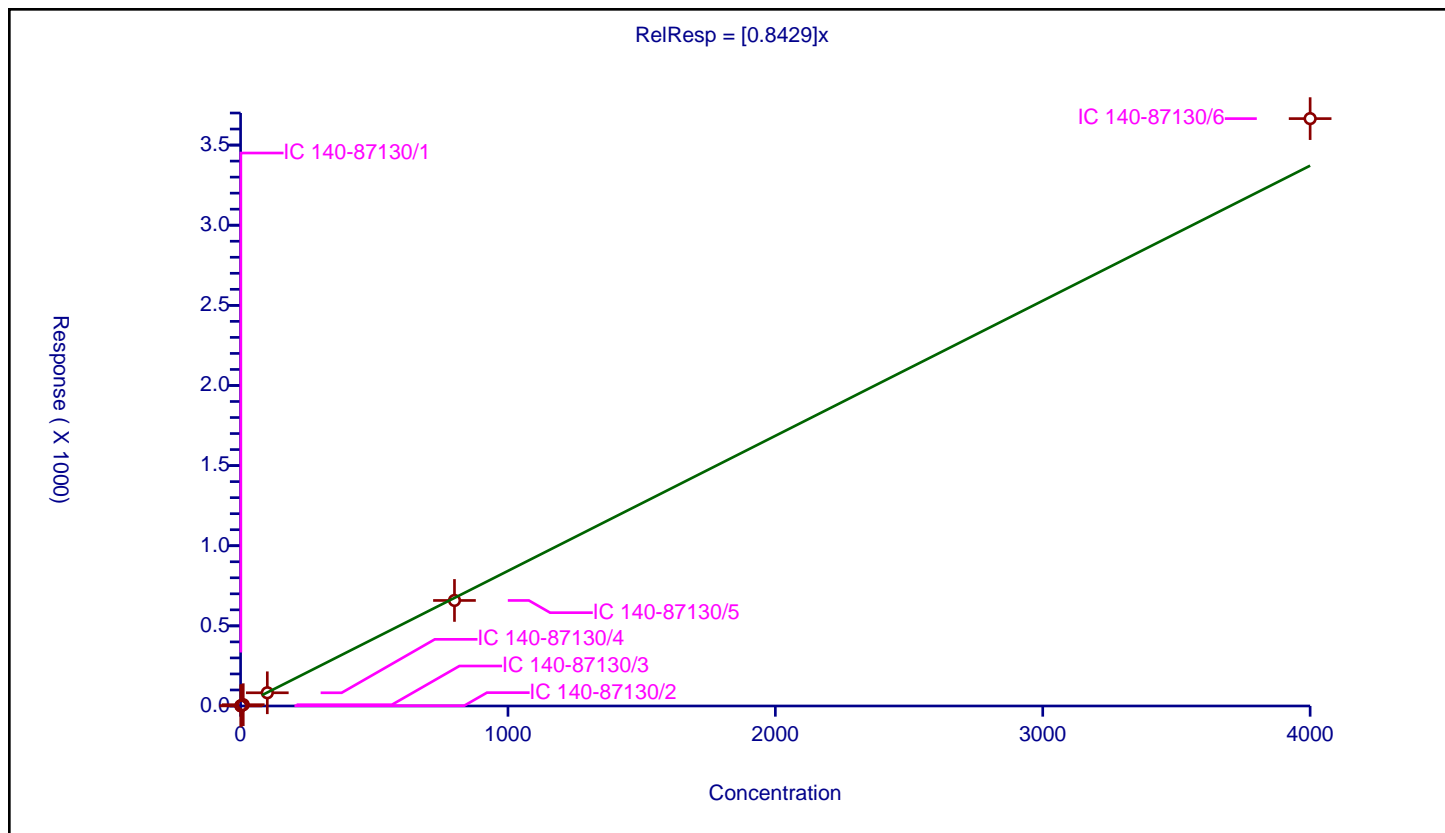
Curve Coefficients

Intercept: 0
Slope: 0.8429

Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



Calibration

/ PCB-94

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

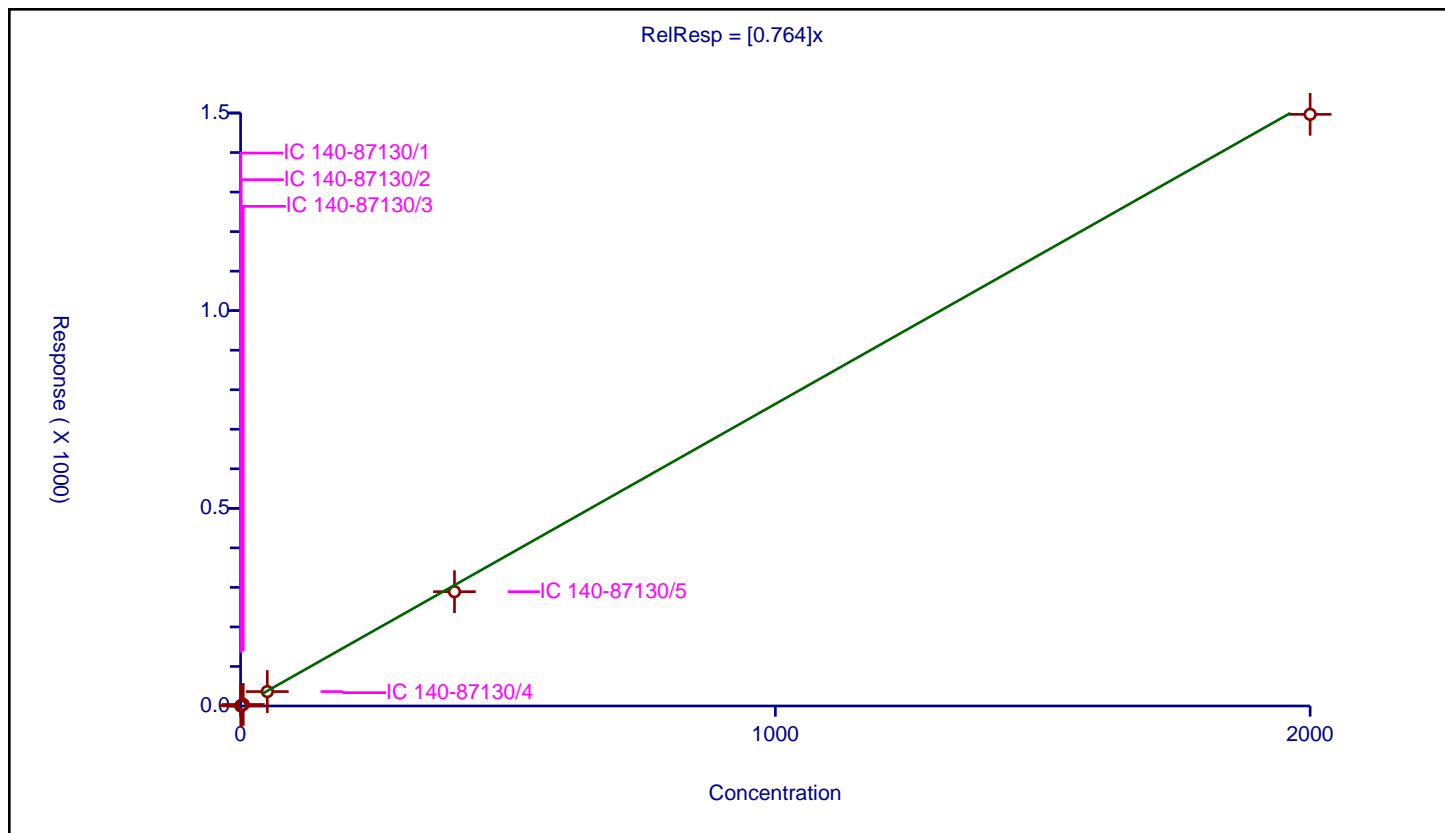
Curve Coefficients

Intercept: 0
 Slope: 0.764

Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.399996	100.0	6938320.0	0.799992	Y
2	IC 140-87130/2	1.0	0.811922	100.0	6240748.0	0.811922	Y
3	IC 140-87130/3	5.0	3.858291	100.0	6307301.0	0.771658	Y
4	IC 140-87130/4	50.0	36.464829	100.0	6455349.0	0.729297	Y
5	IC 140-87130/5	400.0	289.173836	100.0	6672003.0	0.722935	Y
6	IC 140-87130/6	2000.0	1496.625872	100.0	6975966.0	0.748313	Y



Calibration

/ PCB-95

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

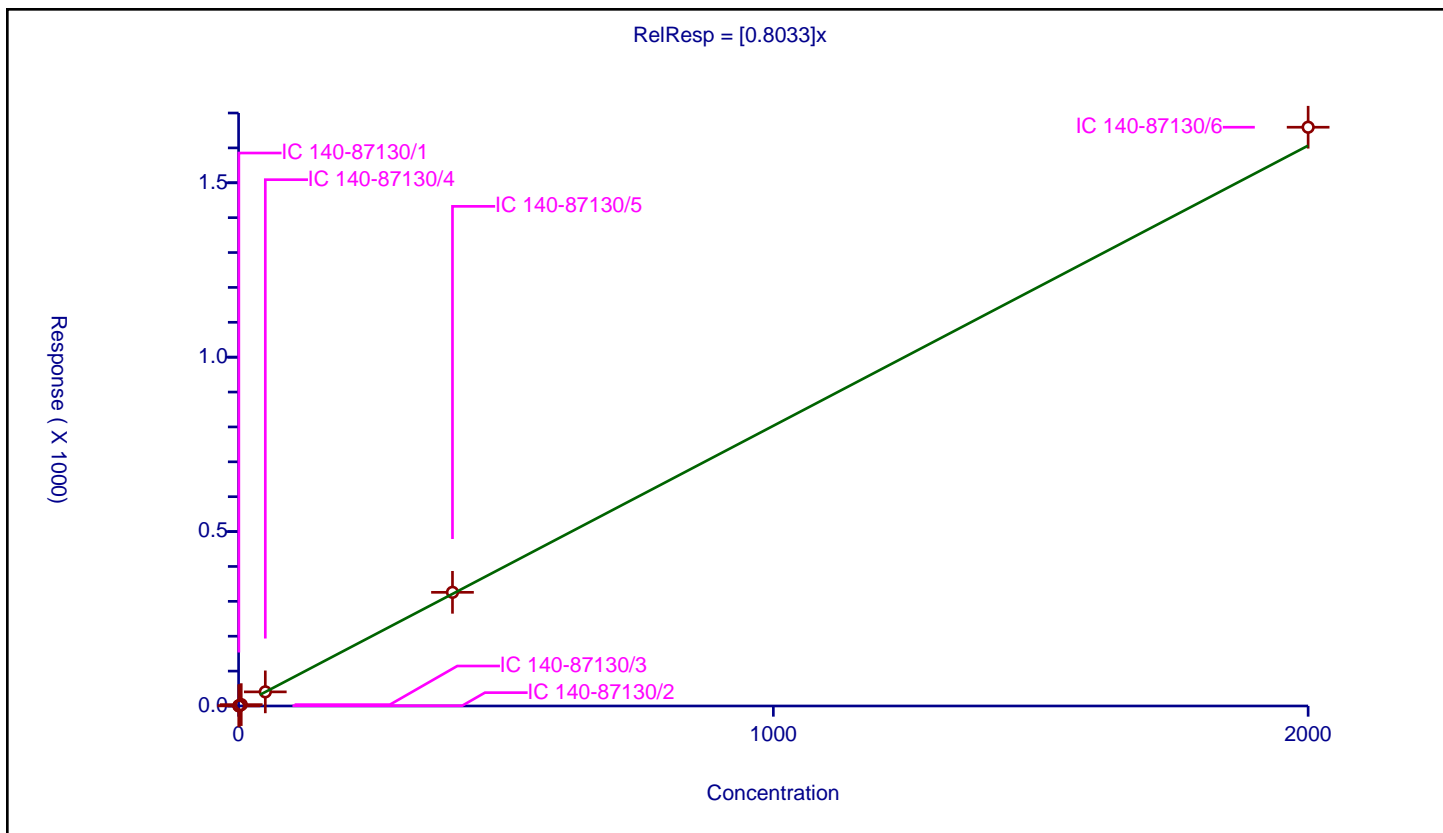
Curve Coefficients

Intercept: 0
 Slope: 0.8033

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.404839	100.0	6938320.0	0.809677	Y
2	IC 140-87130/2	1.0	0.771622	100.0	6240748.0	0.771622	Y
3	IC 140-87130/3	5.0	3.921138	100.0	6307301.0	0.784228	Y
4	IC 140-87130/4	50.0	40.490003	100.0	6455349.0	0.8098	Y
5	IC 140-87130/5	400.0	325.890921	100.0	6672003.0	0.814727	Y
6	IC 140-87130/6	2000.0	1659.27592	100.0	6975966.0	0.829638	Y



Calibration

/ PCB-95L

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

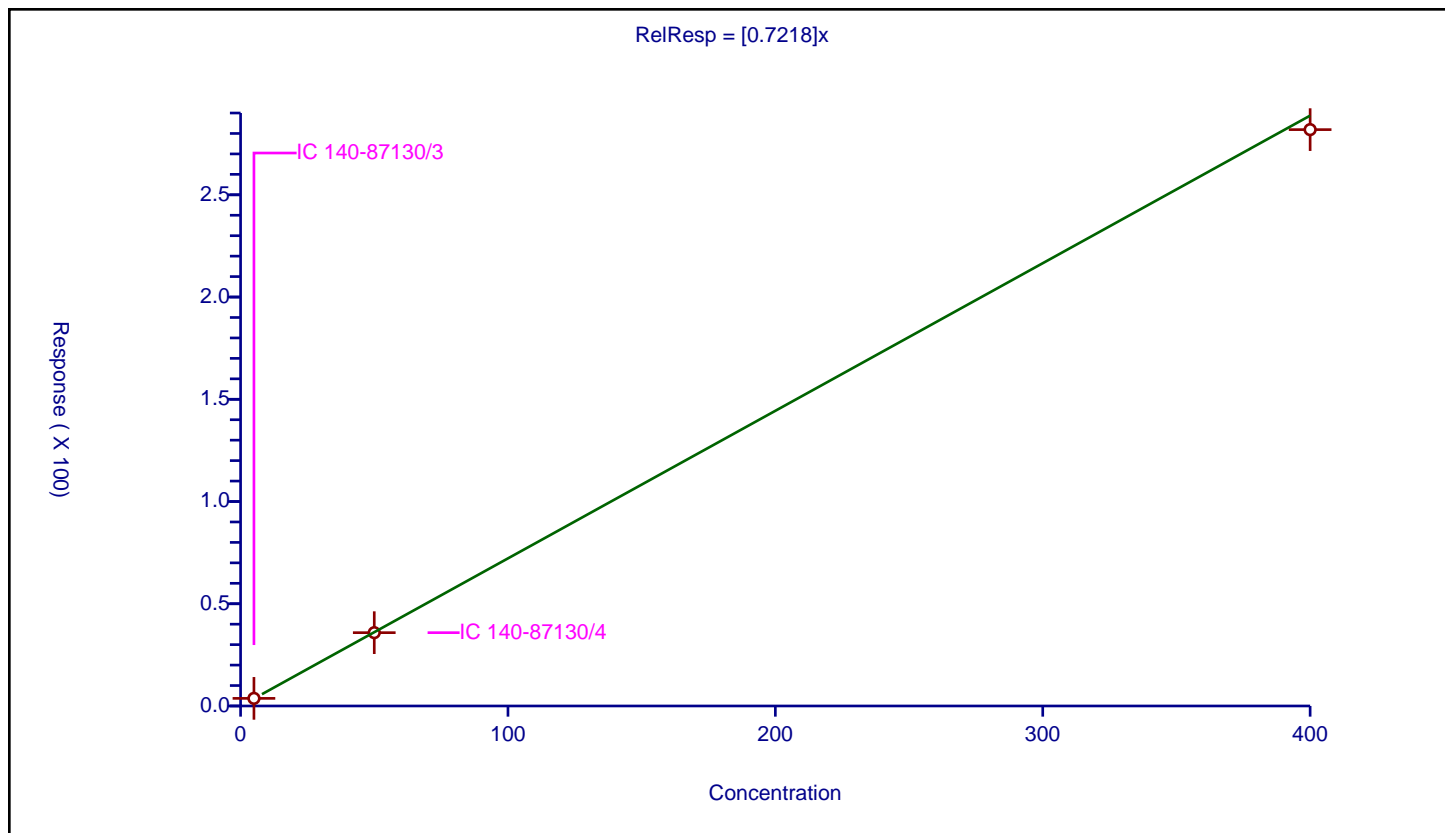
Curve Coefficients

Intercept: 0
 Slope: 0.7218

Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	3.717501	100.0	6307301.0	0.7435	Y
2	IC 140-87130/4	50.0	35.86119	100.0	6455349.0	0.717224	Y
3	IC 140-87130/5	400.0	281.878485	100.0	6672003.0	0.704696	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

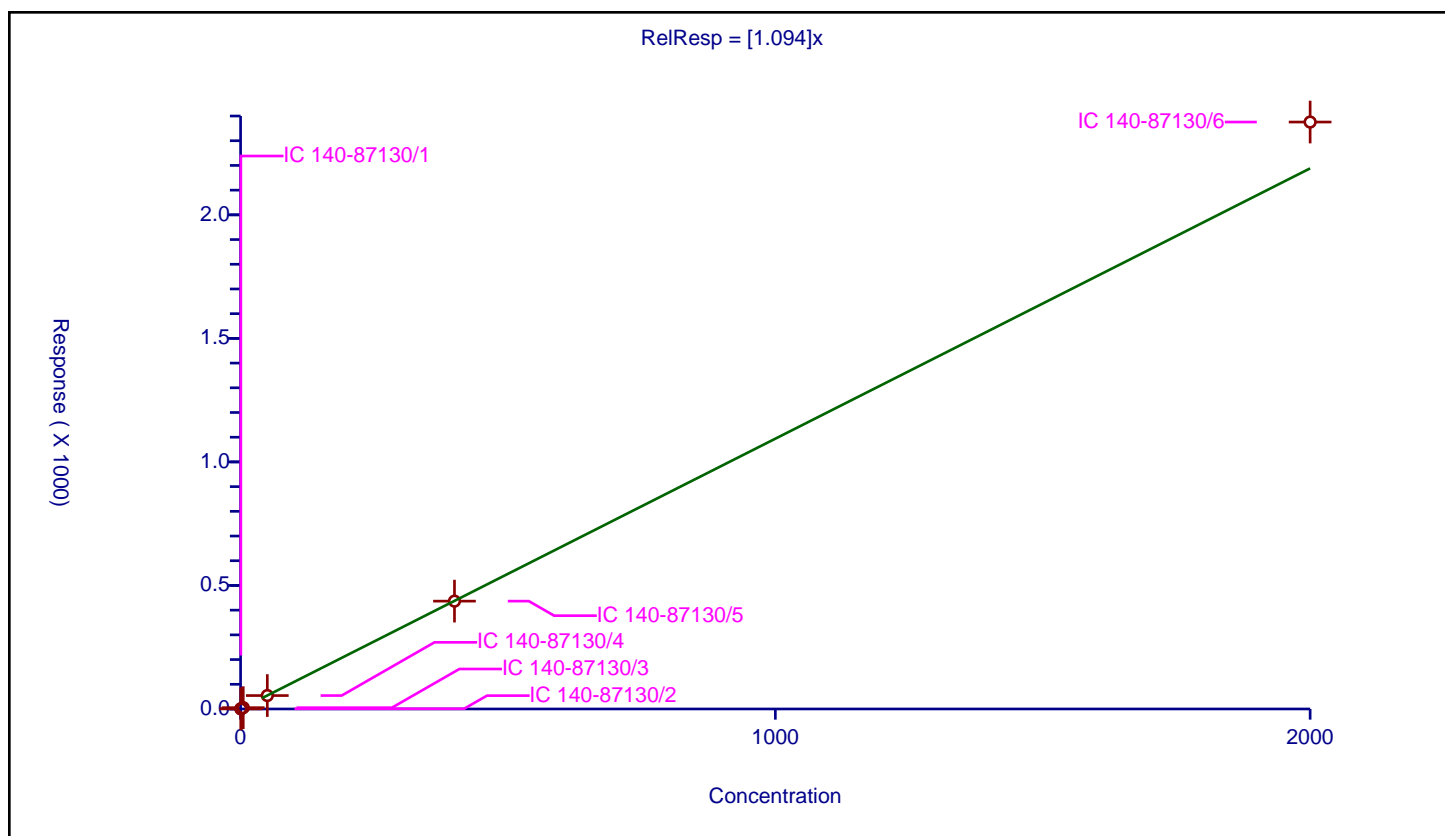
Curve Coefficients

Intercept: 0
Slope: 1.094

Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554745	100.0	6938320.0	1.10949	Y
2	IC 140-87130/2	1.0	1.015583	100.0	6240748.0	1.015583	Y
3	IC 140-87130/3	5.0	5.369507	100.0	6307301.0	1.073901	Y
4	IC 140-87130/4	50.0	54.300519	100.0	6455349.0	1.08601	Y
5	IC 140-87130/5	400.0	436.521941	100.0	6672003.0	1.091305	Y
6	IC 140-87130/6	2000.0	2375.560489	100.0	6975966.0	1.18778	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

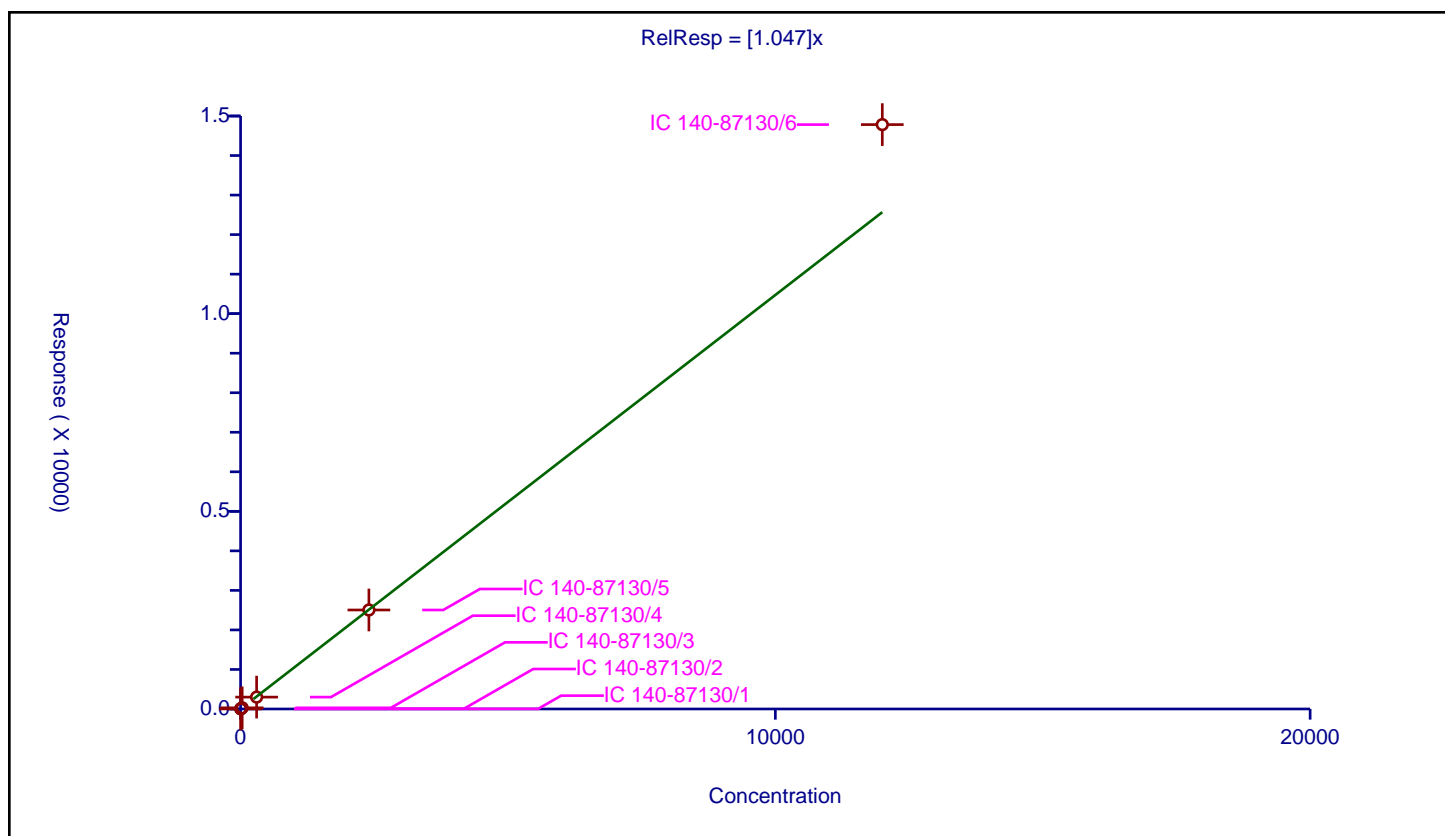
Curve Coefficients

Intercept: 0
Slope: 1.047

Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Calibration

/ PCB-98

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

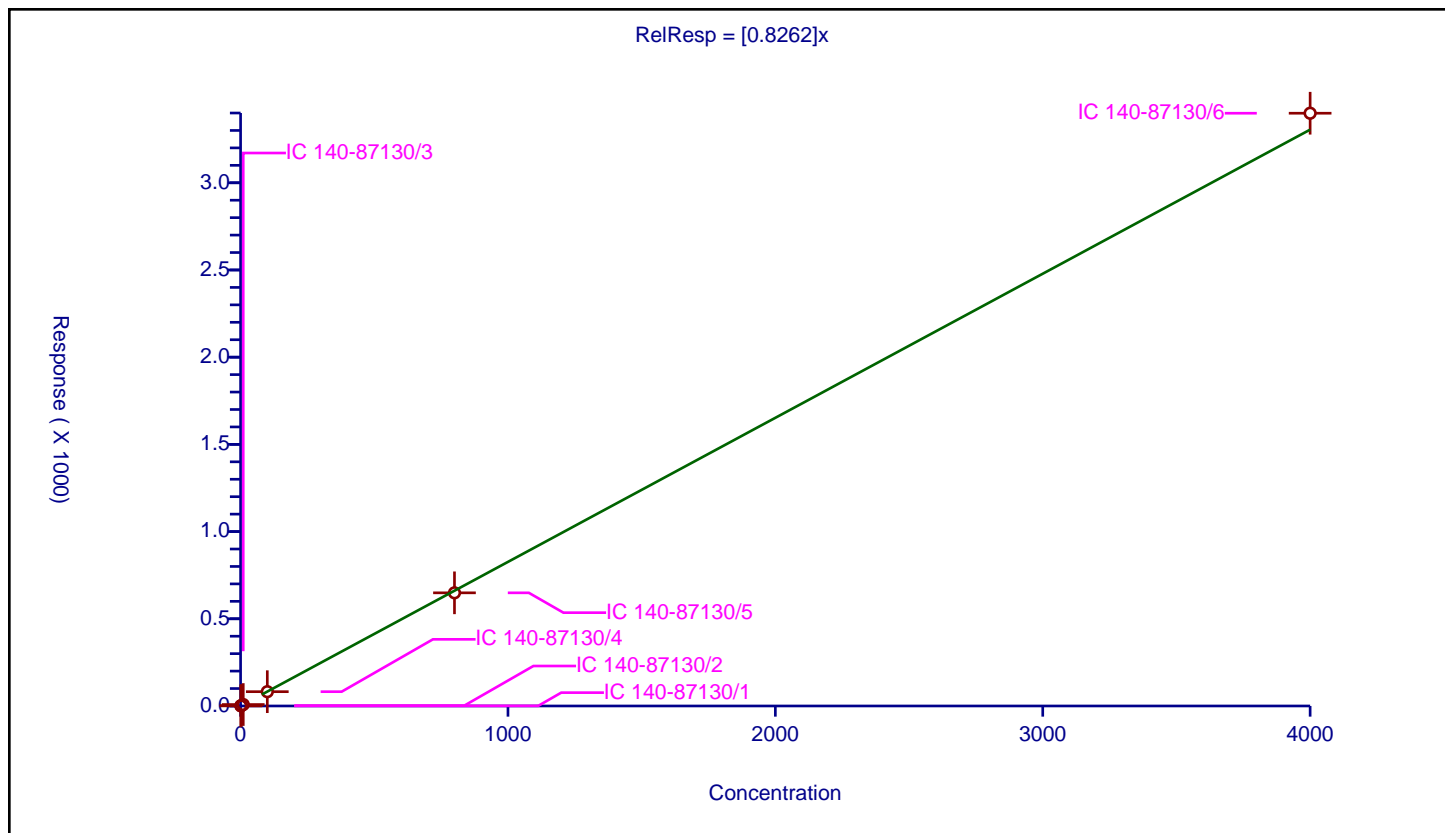
Curve Coefficients

Intercept: 0
Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Calibration

/ PCB-98/102

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

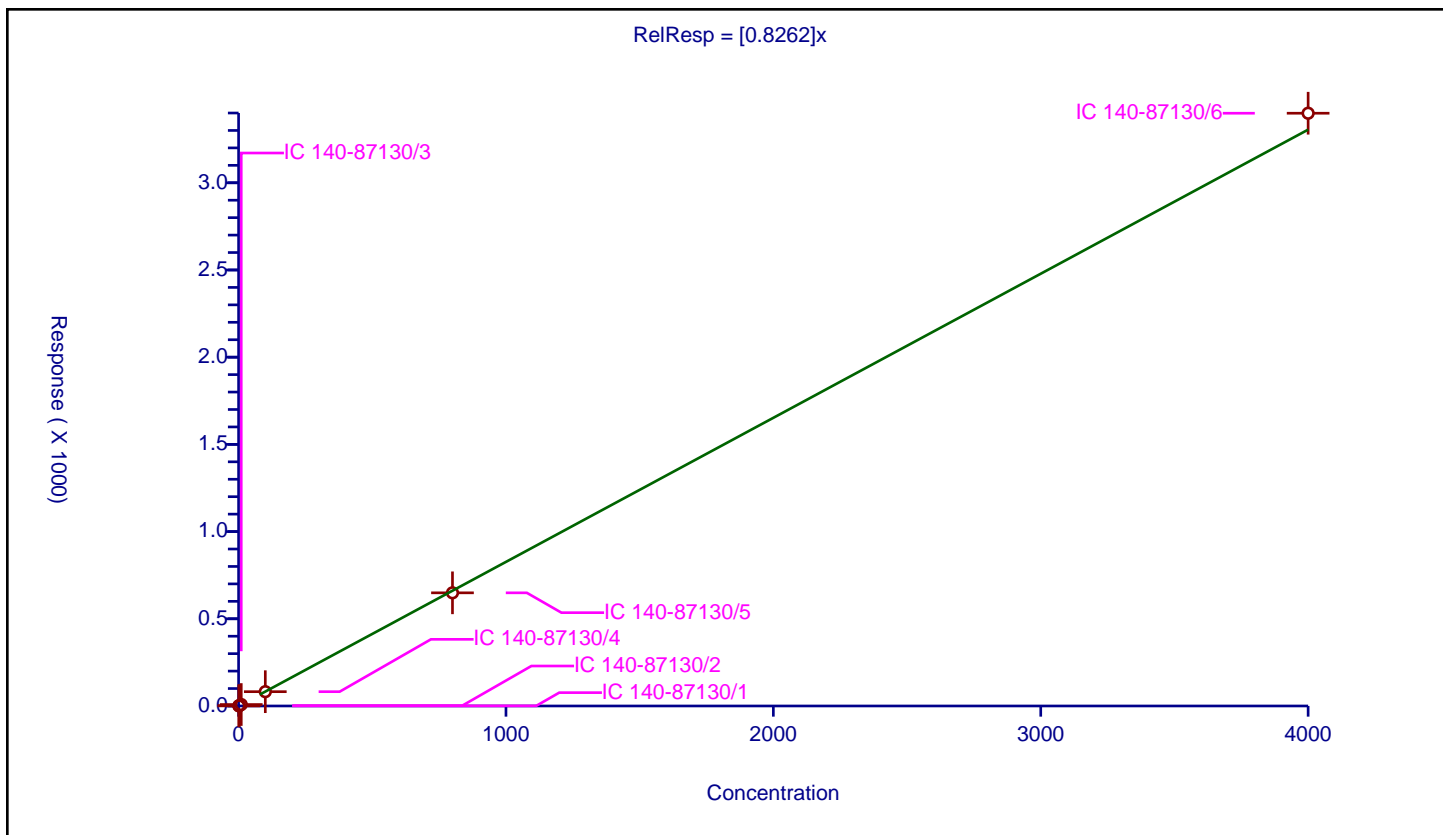
Curve Coefficients

Intercept: 0
 Slope: 0.8262

Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Calibration

/ PCB-99

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

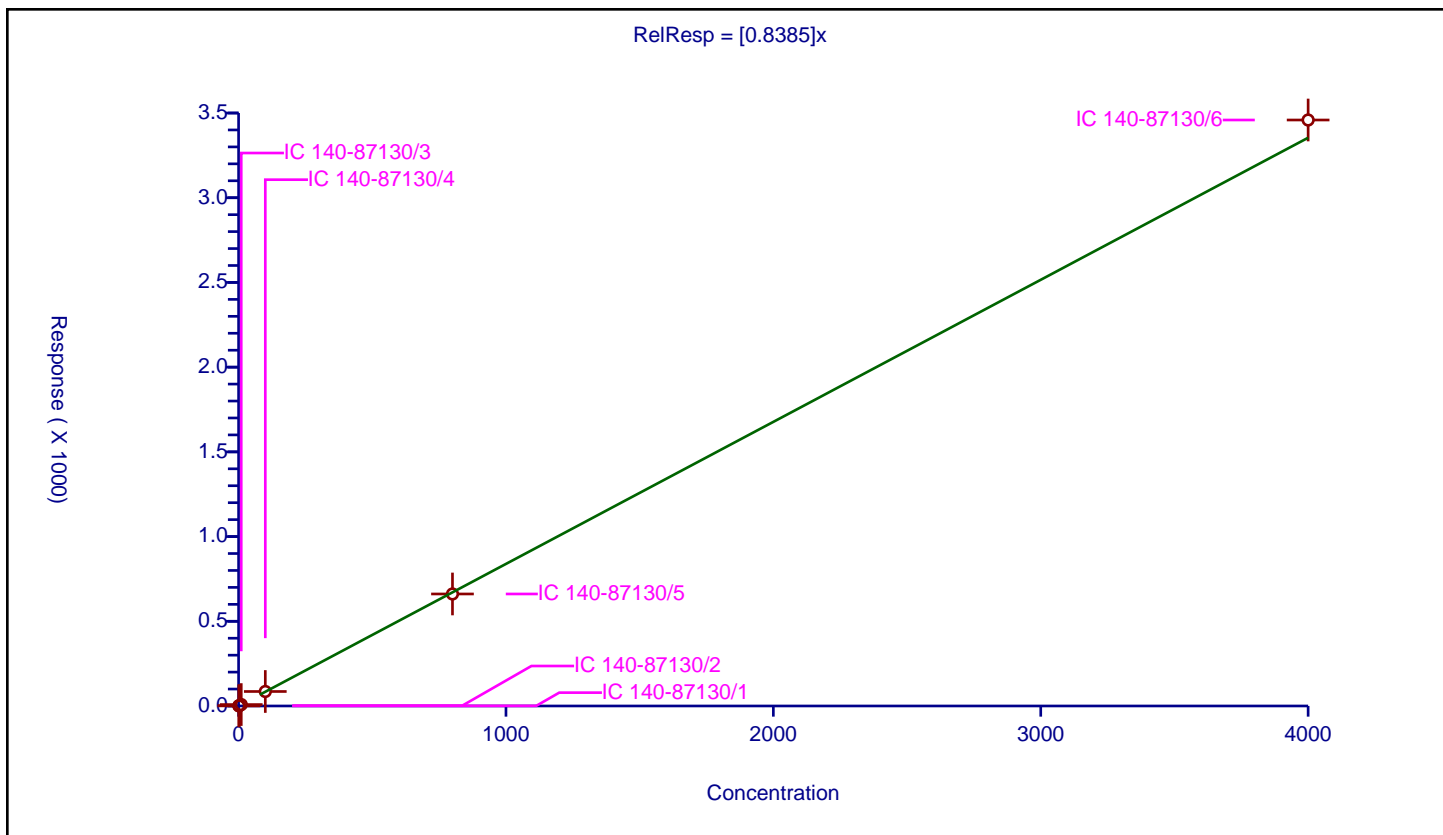
Curve Coefficients

Intercept: 0
 Slope: 0.8385

Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID (1): WDMCCV 140-88747/1 Instrument ID (1): D2D
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 07/15/2024 12:43

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.60	10
PCB-187	40.95	4

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

Isotopic Dilution PCB Method

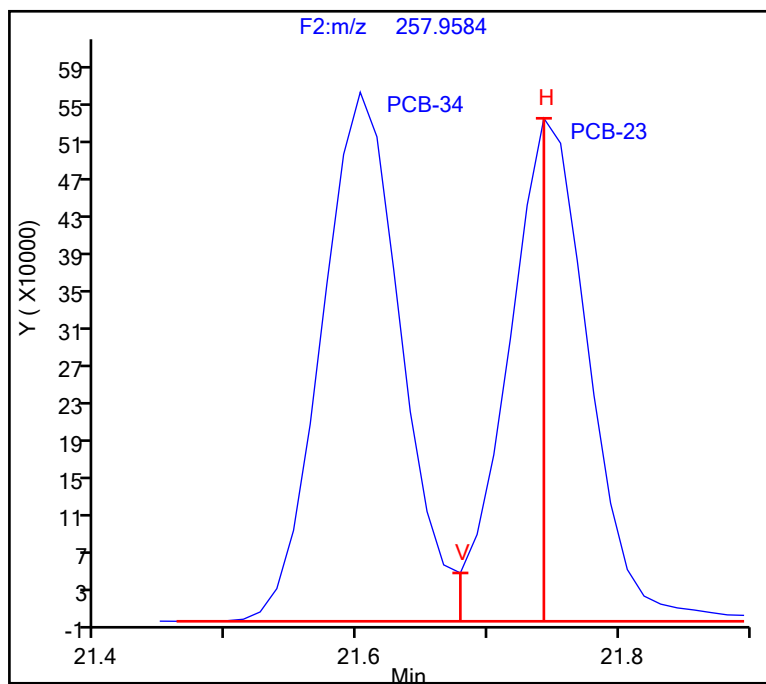
$$\%R = (V / H) * 100$$

V (Valley Height) = 51283

H (Peak Height) = 533822

$$\%R = 10 \leq 40$$

Passed



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

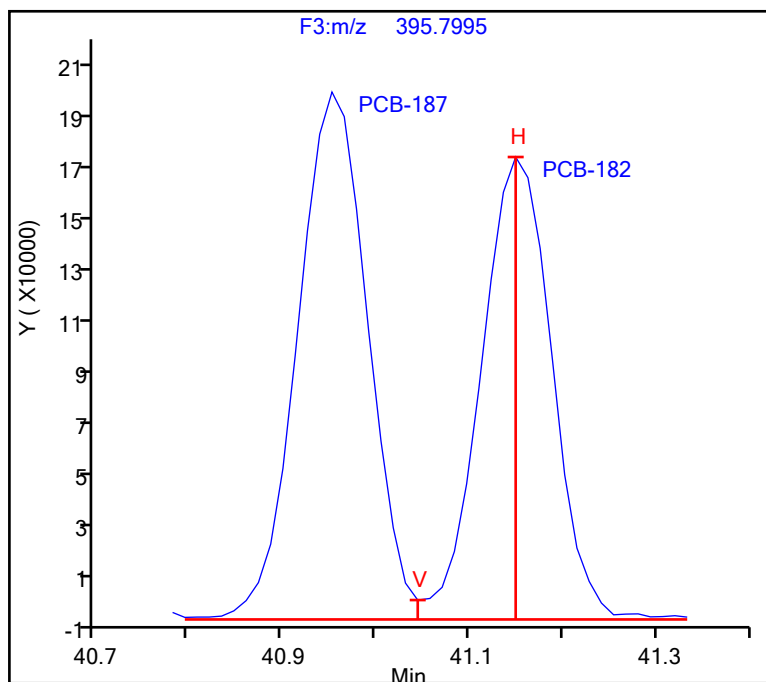
PCB-187 - PCB-182, Signal: 2

Isotopic Dilution PCB Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 7093
H (Peak Height) = 169127

$\%R = 4 \leq 40$
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID (1): WDMCCV 140-88780/1 Instrument ID (1): D2D

GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 07/16/2024 00:00

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.59	10
PCB-187	40.95	4

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

Isotopic Dilution PCB Method

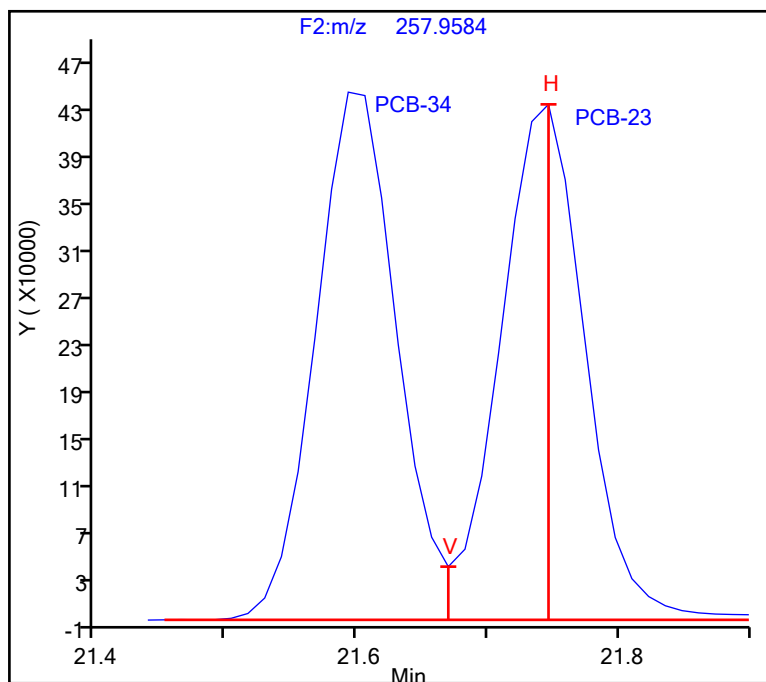
$$\%R = (V / H) * 100$$

V (Valley Height) = 44549

H (Peak Height) = 431670

$$\%R = 10 \leq 40$$

Passed



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System
Injection Vol: 1.0 ul
Method: PCBs_D2D

ALS Bottle#: 0 Worklist Smp#: 1
Column: SPB-Octyl (0.25 mm)
Limit Group: HR - EPA_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

Isotopic Dilution PCB Method

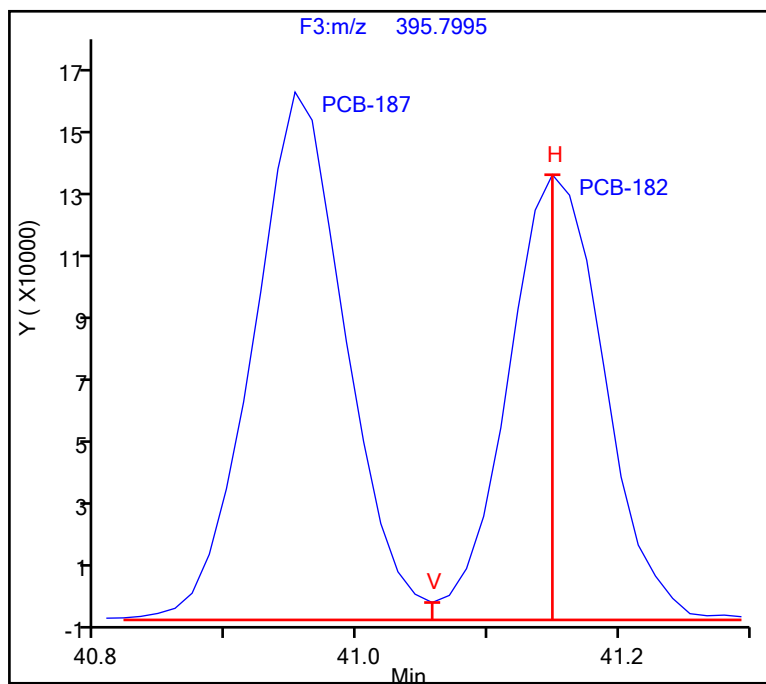
$$\%R = (V / H) * 100$$

V (Valley Height) = 5250

H (Peak Height) = 134303

$$\%R = 4 \leq 40$$

Passed



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58
 Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
 GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
 Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1L	Ave	1.611	1.602		99.4	100	-0.6	
PCB-3L	Ave	1.589	1.572		98.9	100	-1.1	
PCB-4L	Ave	0.6475	0.6470		99.9	100	-0.0	
PCB-19L	Ave	0.6285	0.6153		97.9	100	-2.1	
PCB-15L	Ave	1.079	1.068		99.0	100	-1.0	
PCB-54L	Ave	0.5562	0.5760		104	100	3.5	
PCB-104L	Ave	1.216	1.240		102	100	2.0	
PCB-37L	Ave	0.8749	0.8784		100	100	0.4	
PCB-155L	Ave	1.085	1.107		102	100	2.0	
PCB-81L	Ave	1.247	1.239		99.4	100	-0.6	
PCB-77L	Ave	1.321	1.319		99.8	100	-0.2	
PCB-123L	Ave	0.9731	0.9662		99.3	100	-0.7	
PCB-118L	Ave	1.010	1.010		100	100	0.0	
PCB-114L	Ave	0.9949	0.9887		99.4	100	-0.6	
PCB-188L	Ave	1.313	1.305		99.3	100	-0.7	
PCB-105L	Ave	0.9514	0.9507		99.9	100	-0.0	
PCB-126L	Ave	0.9439	0.9575		101	100	1.4	
PCB-202L	Ave	0.9818	0.9717		99.0	100	-1.0	
PCB-167L	Ave	1.257	1.287		102	100	2.3	
PCB-156L	Ave	1.211	1.226		203	200	1.3	
PCB-156L/157L	Ave	1.211	1.226		203	200	1.3	
PCB-157L	Ave	1.211	1.226		203	200	1.3	
PCB-170L	Ave	0.8362	0.8245		98.6	100	-1.4	
PCB-169L	Ave	1.244	1.250		101	100	0.5	
PCB-208L	Ave	0.9576	0.9509		99.3	100	-0.7	
PCB-189L	Ave	1.441	1.459		101	100	1.2	
PCB-205L	Ave	1.179	1.195		101	100	1.4	
PCB-206L	Ave	0.6947	0.7121		103	100	2.5	
PCB-209L	Ave	0.6669	0.6837		103	100	2.5	

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-1	AveID	1.219	1.149		47.1	50.0	94	70-130
PCB-2	AveID	1.181	1.115		47.2	50.0	94	70-130
PCB-3	AveID	1.221	1.170		47.9	50.0	96	70-130
PCB-4	AveID	1.282	1.154		45.0	50.0	90	70-130
PCB-10	AveID	1.315	1.428		54.3	50.0	109	70-130
PCB-9	AveID	1.422	1.369		48.1	50.0	96	70-130
PCB-7	AveID	1.413	1.412		49.9	50.0	100	70-130
PCB-6	AveID	1.542	1.393		45.2	50.0	90	70-130
PCB-5	AveID	1.339	1.380		51.5	50.0	103	70-130
PCB-8	AveID	1.589	1.481		46.6	50.0	93	70-130
PCB-19	AveID	1.281	1.218		47.5	50.0	95	70-130
PCB-14	AveID	1.402	1.395		49.8	50.0	99	70-130
PCB-18	AveID	1.765	1.608		91.1	100	91	70-130
PCB-18/30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-11	AveID	1.295	1.339		51.7	50.0	103	70-130
PCB-17	AveID	1.243	1.402		56.4	50.0	113	70-130
PCB-12	AveID	1.336	1.487		111	100	111	70-130
PCB-12/13	AveID	1.336	1.487		111	100	111	70-130
PCB-13	AveID	1.336	1.487		111	100	111	70-130
PCB-27	AveID	1.833	1.850		50.5	50.0	101	70-130
PCB-24	AveID	1.678	1.757		52.4	50.0	105	70-130
PCB-16	AveID	1.129	1.193		52.9	50.0	106	70-130
PCB-15	AveID	1.290	1.218		47.2	50.0	94	70-130
PCB-54	AveID	1.273	1.393		109	100	109	70-130
PCB-32	AveID	1.832	1.953		53.3	50.0	107	70-130
PCB-34	AveID	1.128	1.077		47.7	50.0	95	70-130
PCB-23	AveID	1.081	1.073		49.6	50.0	99	70-130
PCB-26	AveID	1.125	1.136		101	100	101	70-130
PCB-26/29	AveID	1.125	1.136		101	100	101	70-130
PCB-29	AveID	1.125	1.136		101	100	101	70-130
PCB-25	AveID	1.273	1.217		47.8	50.0	96	70-130
PCB-50	AveID	0.8578	0.8549		199	200	100	70-130
PCB-50/53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-31	AveID	1.153	1.163		50.4	50.0	101	70-130
PCB-20	AveID	1.172	1.133		96.7	100	97	70-130
PCB-20/28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-21	AveID	1.075	1.145		107	100	107	70-130
PCB-21/33	AveID	1.075	1.145		107	100	107	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-33	AveID	1.075	1.145		107	100	107	70-130
PCB-45	AveID	0.8264	0.8245		200	200	100	70-130
PCB-45/51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-46	AveID	0.7101	0.7715		109	100	109	70-130
PCB-22	AveID	1.193	1.041		43.6	50.0	87	70-130
PCB-52	AveID	0.9194	0.8343		90.7	100	91	70-130
PCB-43	AveID	1.033	0.9371		181	200	91	70-130
PCB-43/73	AveID	1.033	0.9371		181	200	91	70-130
PCB-73	AveID	1.033	0.9371		181	200	91	70-130
PCB-36	AveID	1.107	1.255		56.7	50.0	113	70-130
PCB-49	AveID	1.069	1.049		196	200	98	70-130
PCB-49/69	AveID	1.069	1.049		196	200	98	70-130
PCB-69	AveID	1.069	1.049		196	200	98	70-130
PCB-39	AveID	1.158	1.078		46.5	50.0	93	70-130
PCB-48	AveID	0.8399	0.8578		102	100	102	70-130
PCB-104	AveID	1.009	1.263		125	100	125	70-130
PCB-44	AveID	0.9731	0.9426		291	300	97	70-130
PCB-44/47/65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-47	AveID	0.9731	0.9426		291	300	97	70-130
PCB-65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-38	AveID	1.084	1.160		53.5	50.0	107	70-130
PCB-96	AveID	1.094	1.011		92.4	100	92	70-130
PCB-59	AveID	1.185	1.181		299	300	100	70-130
PCB-59/62/75	AveID	1.185	1.181		299	300	100	70-130
PCB-62	AveID	1.185	1.181		299	300	100	70-130
PCB-75	AveID	1.185	1.181		299	300	100	70-130
PCB-42	AveID	0.8097	0.7739		95.6	100	96	70-130
PCB-35	AveID	1.130	1.106		49.0	50.0	98	70-130
PCB-40	AveID	0.8863	0.8636		292	300	97	70-130
PCB-40/41/71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-41	AveID	0.8863	0.8636		292	300	97	70-130
PCB-71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-37	AveID	1.144	1.147		50.2	50.0	100	70-130
PCB-64	AveID	1.178	1.201		102	100	102	70-130
PCB-72	AveID	1.094	1.191		109	100	109	70-130
PCB-103	AveID	0.8741	0.8351		95.5	100	96	70-130
PCB-68	AveID	1.253	1.274		102	100	102	70-130
PCB-94	AveID	0.7640	0.7974		104	100	104	70-130
PCB-57	AveID	1.082	1.145		106	100	106	70-130
PCB-95	AveID	0.8033	0.7312		91.0	100	91	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-58	AveID	1.325	1.171		88.4	100	88	70-130
PCB-100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93/100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-67	AveID	1.423	1.417		99.6	100	100	70-130
PCB-102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98/102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-63	AveID	1.124	1.232		110	100	110	70-130
PCB-88	AveID	0.8013	0.7989		199	200	100	70-130
PCB-88/91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-61	AveID	1.261	1.191		378	400	94	70-130
PCB-61/70/74/76	AveID	1.261	1.191		378	400	94	70-130
PCB-70	AveID	1.261	1.191		378	400	94	70-130
PCB-74	AveID	1.261	1.191		378	400	94	70-130
PCB-76	AveID	1.261	1.191		378	400	94	70-130
PCB-84	AveID	0.7299	0.8132		111	100	111	70-130
PCB-66	AveID	1.258	1.208		96.0	100	96	70-130
PCB-55	AveID	1.324	1.110		83.9	100	84	70-130
PCB-89	AveID	0.7798	0.6977		89.5	100	89	70-130
PCB-56	AveID	1.233	1.112		90.1	100	90	70-130
PCB-121	AveID	1.296	1.173		90.5	100	91	70-130
PCB-60	AveID	1.123	1.177		105	100	105	70-130
PCB-92	AveID	0.8546	0.7291		85.3	100	85	70-130
PCB-80	AveID	1.324	1.414		107	100	107	70-130
PCB-155	AveID	0.9444	1.062		113	100	112	70-130
PCB-152	AveID	0.9895	0.9505		96.1	100	96	70-130
PCB-101	AveID	0.9550	0.9763		307	300	102	70-130
PCB-113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90/101/113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-150	AveID	1.013	1.069		106	100	105	70-130
PCB-136	AveID	1.012	0.9664		95.5	100	96	70-130
PCB-83	AveID	0.8385	0.7949		190	200	95	70-130
PCB-83/99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-112	AveID	1.411	1.291		91.5	100	91	70-130
PCB-145	AveID	0.9685	1.019		105	100	105	70-130
PCB-109	AveID	1.047	1.001		574	600	96	70-130
PCB-119	AveID	1.047	1.001		574	600	96	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-125	AveID	1.047	1.001		574	600	96	70-130
PCB-79	AveID	1.437	1.400		97.4	100	97	70-130
PCB-86	AveID	1.047	1.001		574	600	96	70-130
PCB-86/87/97/109/119/125	AveID	1.047	1.001		574	600	96	70-130
PCB-87	AveID	1.047	1.001		574	600	96	70-130
PCB-97	AveID	1.047	1.001		574	600	96	70-130
PCB-78	AveID	1.162	1.065		91.7	100	92	70-130
PCB-116	AveID	1.041	1.039		300	300	100	70-130
PCB-117	AveID	1.041	1.039		300	300	100	70-130
PCB-85	AveID	1.041	1.039		300	300	100	70-130
PCB-85/116/117	AveID	1.041	1.039		300	300	100	70-130
PCB-110	AveID	1.192	1.118		188	200	94	70-130
PCB-110/115	AveID	1.192	1.118		188	200	94	70-130
PCB-115	AveID	1.192	1.118		188	200	94	70-130
PCB-81	AveID	1.080	1.082		100	100	100	70-130
PCB-82	AveID	0.8303	0.7499		90.3	100	90	70-130
PCB-148	AveID	0.7603	0.7170		94.3	100	94	70-130
PCB-77	AveID	1.084	1.123		104	100	104	70-130
PCB-111	AveID	1.213	1.220		101	100	101	70-130
PCB-135	AveID	0.7256	0.7119		196	200	98	70-130
PCB-135/151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-120	AveID	1.476	1.168		79.1	100	79	70-130
PCB-154	AveID	0.8129	0.9550		118	100	117	70-130
PCB-144	AveID	0.7852	0.7252		92.4	100	92	70-130
PCB-147	AveID	0.8950	0.9068		203	200	101	70-130
PCB-147/149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-134	AveID	0.7967	0.7322		184	200	92	70-130
PCB-134/143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-108	AveID	1.141	1.092		192	200	96	70-130
PCB-108/124	AveID	1.141	1.092		192	200	96	70-130
PCB-124	AveID	1.141	1.092		192	200	96	70-130
PCB-139	AveID	0.8769	0.9117		208	200	104	70-130
PCB-139/140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-107	AveID	1.212	1.347		111	100	111	70-130
PCB-131	AveID	0.7503	0.7482		99.7	100	100	70-130
PCB-123	AveID	1.072	1.170		109	100	109	70-130
PCB-106	AveID	1.084	1.036		95.6	100	96	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-142	AveID	0.7507	0.7009		93.4	100	93	70-130
PCB-118	AveID	1.206	1.164		96.6	100	97	70-130
PCB-132	AveID	0.7489	0.7731		103	100	103	70-130
PCB-122	AveID	0.9567	0.8244		86.2	100	86	70-130
PCB-114	AveID	1.084	1.198		111	100	110	70-130
PCB-188	AveID	1.135	1.094		96.4	100	96	70-130
PCB-133	AveID	0.8096	0.7674		94.8	100	95	70-130
PCB-179	AveID	1.428	1.355		95.0	100	95	70-130
PCB-165	AveID	1.025	1.035		101	100	101	70-130
PCB-105	AveID	1.188	1.019		85.8	100	86	70-130
PCB-146	AveID	0.9637	0.997		103	100	103	70-130
PCB-184	AveID	1.367	1.441		105	100	105	70-130
PCB-161	AveID	1.129	1.137		101	100	101	70-130
PCB-176	AveID	1.233	1.339		109	100	109	70-130
PCB-153	AveID	1.094	1.059		194	200	97	70-130
PCB-153/168	AveID	1.094	1.059		194	200	97	70-130
PCB-168	AveID	1.094	1.059		194	200	97	70-130
PCB-141	AveID	0.8755	0.9597		110	100	110	70-130
PCB-186	AveID	1.474	1.315		89.2	100	89	70-130
PCB-130	AveID	0.7051	0.7475		106	100	106	70-130
PCB-127	AveID	1.139	1.130		99.2	100	99	70-130
PCB-137	AveID	0.7767	0.8332		107	100	107	70-130
PCB-164	AveID	1.038	1.221		118	100	118	70-130
PCB-129	AveID	0.9464	0.9336		395	400	99	70-130
PCB-129/138/160/163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-138	AveID	0.9464	0.9336		395	400	99	70-130
PCB-160	AveID	0.9464	0.9336		395	400	99	70-130
PCB-163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-158	AveID	1.311	1.375		105	100	105	70-130
PCB-178	AveID	0.8946	0.9371		105	100	105	70-130
PCB-175	AveID	0.9524	1.006		106	100	106	70-130
PCB-126	AveID	1.098	1.156		105	100	105	70-130
PCB-128	AveID	0.9829	1.021		208	200	104	70-130
PCB-128/166	AveID	0.9829	1.021		208	200	104	70-130
PCB-166	AveID	0.9829	1.021		208	200	104	70-130
PCB-187	AveID	1.102	1.066		96.8	100	97	70-130
PCB-182	AveID	0.9247	1.108		120	100	120	70-130
PCB-183	AveID	0.9825	1.030		210	200	105	70-130
PCB-183/185	AveID	0.9825	1.030		210	200	105	70-130
PCB-185	AveID	0.9825	1.030		210	200	105	70-130
PCB-174	AveID	0.9642	1.059		110	100	110	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-159	AveID	1.386	1.223		88.3	100	88	70-130
PCB-162	AveID	1.257	1.256		99.9	100	100	70-130
PCB-177	AveID	0.9773	0.9705		99.3	100	99	70-130
PCB-202	AveID	1.036	1.147		166	150	111	70-130
PCB-167	AveID	1.116			105	100	105	70-130
PCB-181	AveID	0.9505	0.9734		102	100	102	70-130
PCB-171	AveID	0.9336	0.9451		202	200	101	70-130
PCB-171/173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-201	AveID	0.9754	1.182		182	150	121	70-130
PCB-156	AveID	1.110	1.136		205	200	102	70-130
PCB-156/157	AveID	1.110	1.136		205	200	102	70-130
PCB-157	AveID	1.110	1.136		205	200	102	70-130
PCB-204	AveID	1.049	1.143		164	150	109	70-130
PCB-197	AveID	1.146	1.072		140	150	94	70-130
PCB-200	AveID	1.007	1.121		167	150	111	70-130
PCB-172	AveID	0.8519	0.9291		109	100	109	70-130
PCB-192	AveID	1.346	1.188		88.3	100	88	70-130
PCB-180	AveID	1.168	1.237		212	200	106	70-130
PCB-180/193	AveID	1.168	1.237		212	200	106	70-130
PCB-193	AveID	1.168	1.237		212	200	106	70-130
PCB-191	AveID	1.289	1.335		104	100	104	70-130
PCB-170	AveID	1.187	1.248		105	100	105	70-130
PCB-190	AveID	1.332	1.297		97.4	100	97	70-130
PCB-169	AveID	1.163	1.151		99.0	100	99	70-130
PCB-198	AveID	0.8698	0.7707		266	300	89	70-130
PCB-198/199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-196	AveID	0.7806	0.8313		160	150	106	70-130
PCB-203	AveID	0.9292	0.8581		139	150	92	70-130
PCB-208	AveID	1.137	1.121		148	150	99	70-130
PCB-195	AveID	0.8263	0.7848		143	150	95	70-130
PCB-189	AveID	0.9633	1.028		107	100	107	70-130
PCB-207	AveID	1.376	1.307		143	150	95	70-130
PCB-194	AveID	0.9735	0.9023		139	150	93	70-130
PCB-205	AveID	1.088	1.125		155	150	103	70-130
PCB-206	AveID	1.335	1.185		133	150	89	70-130
PCB-209	AveID	1.100	1.108		151	150	101	70-130
PCB-8L	AveID	1.207	1.152		47.8	50.0	96	70-130
PCB-28L	Ave	1.049	0.9712		46.3	50.0	93	70-130
PCB-95L	AveID	0.7218	0.6977		48.3	50.0	97	70-130

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-79L	AveID	1.002	0.9895		49.4	50.0	99	70-130
PCB-111L	Ave	1.370	1.294		47.2	50.0	94	70-130
PCB-153L	AveID	0.9169	0.8168		44.5	50.0	89	70-130
PCB-178L	Ave	1.031	0.9547		46.3	50.0	93	70-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-007
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist:

Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					142.3	142.3	0.1520	0.1520		
D PCB-1L	11:36	13414069	3.05	1.6108	99.4	99.4	0.3050	0.3050	99.43	
D PCB-3L	13:45	13162192	3.20	1.5891	98.9	98.9	0.3091	0.3091	98.89	
PCB-1	11:36	7705547	3.15	1.2191	47.1	47.1	0.1363	0.1363	94.24	
PCB-2	13:35	7406759	3.15	1.1805	47.2	47.2	0.1544	0.1544	94.43	
PCB-3	13:46	7702403	3.18	1.2206	47.9	47.9	0.1655	0.1655	95.89	
S Total Dichlorobiphenyls					600.7	600.7	0.0371	0.0371		
D PCB-4L	14:00	5419001	1.61	0.6475	99.9	99.9	0.2147	0.2147	99.92	
* PCB-9L	15:58	8375462	1.59		100.0	100.0				
\$ PCB-8L	16:48	4139554	1.62	1.2066	47.8	47.8	0.1418	0.1418	95.51	
D PCB-15L	19:53	8949015	1.65	1.0789	99.0	99.0	0.1288	0.1288	99.03	
PCB-4	14:01	3127338	1.60	1.2818	45.0	45.0	0.0447	0.0447	90.04	
PCB-10	14:11	5130776	1.61	1.3149	54.3	54.3	0.0388	0.0388	109	
PCB-9	15:59	4916901	1.64	1.4224	48.1	48.1	0.0359	0.0359	96.23	
PCB-7	16:09	5070472	1.57	1.4134	49.9	49.9	0.0361	0.0361	99.87	
PCB-6	16:23	5004501	1.60	1.5421	45.2	45.2	0.0331	0.0331	90.35	
PCB-5	16:42	4956608	1.59	1.3395	51.5	51.5	0.0381	0.0381	103	
PCB-8	16:50	5320885	1.59	1.5889	46.6	46.6	0.0321	0.0321	93.23	
PCB-14	18:27	5012029	1.59	1.4025	49.7	49.7	0.0364	0.0364	99.49	
PCB-11	19:17	4810913	1.59	1.2951	51.7	51.7	0.0394	0.0394	103	
PCB-12	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-13 (C12)	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-15	19:54	5451192	1.60	1.2903	47.2	47.2	0.0356	0.0356	94.42	
S Total Trichlorobiphenyls					1203.3	1203.3	0.6825	0.6825		
D PCB-19L	17:06	3365213	1.06	0.6285	97.9	97.9	0.4414	0.4414	97.89	
* PCB-32L	20:22	5469284	1.12		100.0	100.0				
* PCB-31L	22:37	15618533	1.05		100.0	100.0				
\$ PCB-28L	22:55	7584009	1.04	1.0494	46.3	46.3	0.0861	0.0861	92.54	
D PCB-37L	26:54	13719981	1.07	0.8749	100.4	100.4	0.1032	0.1032	100	
PCB-19	17:08	2049308	1.04	1.2809	47.5	47.5	0.0689	0.0689	95.08	
PCB-18	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-30 (C18)	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-17	19:24	2359724	1.04	1.2430	56.4	56.4	0.0710	0.0710	113	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:38	3112171	1.03	1.8327	50.5	50.5	0.0481	0.0481	101	
PCB-24	19:45	2956499	1.04	1.6777	52.4	52.4	0.0526	0.0526	105	
PCB-16	19:52	2007108	1.05	1.1286	52.8	52.8	0.0782	0.0782	106	
PCB-32	20:23	3286329	1.05	1.8324	53.3	53.3	0.0481	0.0481	107	
PCB-34	21:38	7386673	1.06	1.1277	47.7	47.7	1.027	1.027	95.48	
PCB-23	21:47	7363564	1.07	1.0813	49.6	49.6	1.071	1.071	99.27	
PCB-26	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-29 (C26)	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-25	22:20	8348692	1.06	1.2728	47.8	47.8	0.9102	0.9102	95.62	
PCB-31	22:38	7977672	1.05	1.1532	50.4	50.4	1.005	1.005	101	
PCB-20	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-28 (C20)	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-21	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-33 (C21)	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-22	23:34	7141111	1.05	1.1932	43.6	43.6	0.9709	0.9709	87.24	
PCB-36	25:08	8610244	1.12	1.1071	56.7	56.7	1.046	1.046	113	
PCB-39	25:29	7392700	1.04	1.1581	46.5	46.5	1.000	1.000	93.05	
PCB-38	26:04	7958217	1.06	1.0843	53.5	53.5	1.068	1.068	107	
PCB-35	26:31	7588192	1.07	1.1297	49.0	49.0	1.025	1.025	97.92	
PCB-37	26:56	7868173	1.06	1.1435	50.2	50.2	1.013	1.013	100	
S Total Tetrachlorobiphenyls					4133.2	4133.2	0.7839	0.7839		
D PCB-54L	20:11	3150116	0.82	0.5562	103.5	103.5	0.0525	0.0525	104	
* PCB-52L	24:45	7783825	0.80		100.0	100.0				
\$ PCB-79L	32:41	4925323	0.80	1.0018	49.4	49.4	0.3933	0.3933	98.77	
D PCB-81L	33:40	9646433	0.81	1.2470	99.4	99.4	0.3558	0.3558	99.39	
D PCB-77L	34:13	10262985	0.80	1.3212	99.8	99.8	0.3358	0.3358	99.80	
PCB-54	20:12	4387976	0.79	1.2733	109.4	109.4	0.0935	0.0935	109	
PCB-50	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-53 (C50)	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-45	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-51 (C45)	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-46	23:21	7680120	0.79	0.7101	108.6	108.6	1.215	1.215	109	
PCB-52	24:46	8305512	0.80	0.9194	90.7	90.7	0.9384	0.9384	90.74	
PCB-43	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-73 (C43)	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-49	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-69 (C49)	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-48	25:32	8538932	0.79	0.8399	102.1	102.1	1.027	1.027	102	
PCB-44	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-47 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-65 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-59	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-62 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-75 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-42	26:18	7704424	0.77	0.8097	95.6	95.6	1.066	1.066	95.59	
PCB-40	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-41 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-71 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-64	27:00	11956915	0.78	1.1776	102.0	102.0	0.7327	0.7327	102	
PCB-72	27:50	11854927	0.81	1.0943	108.8	108.8	0.7885	0.7885	109	
PCB-68	28:07	12678056	0.81	1.2533	101.6	101.6	0.6885	0.6885	102	
PCB-57	28:33	11397207	0.79	1.0818	105.8	105.8	0.7976	0.7976	106	
PCB-58	28:47	11659254	0.80	1.3253	88.4	88.4	0.6510	0.6510	88.37	
PCB-67	28:57	14108728	0.79	1.4230	99.6	99.6	0.6063	0.6063	99.60	
PCB-63	29:13	12259353	0.79	1.1240	109.6	109.6	0.7677	0.7677	110	
PCB-61	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-70 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-74 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-76 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-66	29:52	12027199	0.79	1.2583	96.0	96.0	0.6857	0.6857	96.02	
PCB-55	30:02	11053300	0.79	1.3236	83.9	83.9	0.6519	0.6519	83.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:32	11065342	0.79	1.2334	90.1	90.1	0.6996	0.6996	90.12	
PCB-60	30:45	11714864	0.79	1.1230	104.8	104.8	0.7683	0.7683	105	
PCB-80	31:10	14080645	0.80	1.3243	106.8	106.8	0.6516	0.6516	107	
PCB-79	32:41	13935476	0.80	1.4368	97.4	97.4	0.6005	0.6005	97.43	
PCB-78	33:15	10602840	0.80	1.1618	91.7	91.7	0.7426	0.7426	91.67	
PCB-81	33:41	10440515	0.81	1.0802	100.2	100.2	0.8094	0.8094	100	
PCB-77	34:15	11527488	0.79	1.0836	103.7	103.7	0.7860	0.7860	104	
S Total Pentachlorobiphenyls					4510.1	4510.1	0.4493	0.4493		
D PCB-104L	25:41	6421083	1.59	1.2161	102.0	102.0	0.0354	0.0354	102	
\$ PCB-95L	28:40	2240078	1.60	0.7218	48.3	48.3	0.0427	0.0427	96.66	
* PCB-101L	31:36	5178918	1.59		100.0	100.0				
\$ PCB-111L	34:17	3351426	1.63	1.3699	47.2	47.2	0.0314	0.0314	94.48	
D PCB-123L	36:14	9572782	1.59	0.9731	99.3	99.3	1.187	1.187	99.29	
D PCB-118L	36:34	10007737	1.59	1.0102	100.0	100.0	1.143	1.143	100	
D PCB-114L	37:06	9795358	1.58	0.9949	99.4	99.4	1.161	1.161	99.38	
D PCB-105L	37:44	9418380	1.60	0.9514	99.9	99.9	1.214	1.214	99.92	
* PCB-127L	39:13	9907302	1.59		100.0	100.0				
D PCB-126L	40:50	9486247	1.59	0.9439	101.4	101.4	1.224	1.224	101	
PCB-104	25:43	8111515	1.58	1.0087	125.2	125.2	0.0552	0.0552	125	
PCB-96	26:04	6493983	1.57	1.0940	92.4	92.4	0.0509	0.0509	92.44	
PCB-103	28:01	5362312	1.59	0.8741	95.5	95.5	0.0637	0.0637	95.54	
PCB-94	28:15	5120381	1.56	0.7640	104.4	104.4	0.0728	0.0728	104	
PCB-95	28:41	4695325	1.57	0.8033	91.0	91.0	0.0693	0.0693	91.03	
PCB-93	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-100 (C93)	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-98	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-102 (C98)	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-88	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-91 (C88)	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-84	29:46	5221560	1.62	0.7299	111.4	111.4	0.0762	0.0762	111	
PCB-89	30:15	4480089	1.54	0.7798	89.5	89.5	0.0714	0.0714	89.47	
PCB-121	30:40	7533942	1.60	1.2964	90.5	90.5	0.0429	0.0429	90.51	
PCB-92	31:02	4681623	1.58	0.8546	85.3	85.3	0.0651	0.0651	85.32	
PCB-90	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-101 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-113 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-83	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-99 (C83)	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-112	32:19	8287611	1.60	1.4111	91.5	91.5	0.0394	0.0394	91.47	
PCB-86	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-87 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-97 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-109 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-119 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-125 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-85	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-116 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-117 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-110	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-115 (C110)	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-82	33:54	4814852	1.58	0.8303	90.3	90.3	0.0670	0.0670	90.31	
PCB-111	34:18	7831052	1.56	1.2125	100.6	100.6	0.0459	0.0459	101	
PCB-120	34:46	7497947	1.59	1.4762	79.1	79.1	0.0377	0.0377	79.10	
PCB-108	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-124 (C108)	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-107	36:09	13007450	1.56	1.2121	111.1	111.1	1.164	1.164	111	
PCB-123	36:16	11197845	1.57	1.0722	109.1	109.1	1.291	1.291	109	
PCB-106	36:22	10002249	1.58	1.0839	95.6	95.6	1.302	1.302	95.57	
PCB-118	36:35	11653704	1.56	1.2055	96.6	96.6	1.124	1.124	96.59	
PCB-122	36:56	7960489	1.57	0.9567	86.2	86.2	1.475	1.475	86.17	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:06	11734136	1.57	1.0842	110.5	110.5	1.295	1.295	110	
PCB-105	37:46	9597079	1.55	1.1879	85.8	85.8	1.213	1.213	85.78	
PCB-127	39:14	10912279	1.60	1.1394	99.2	99.2	1.239	1.239	99.18	
PCB-126	40:50	10965999	1.58	1.0976	105.3	105.3	1.350	1.350	105	
S Total Hexachlorobiphenyls					4243.4	4243.4	0.6932	0.6932		
D PCB-155L	31:22	5734390	1.30	1.0851	102.0	102.0	0.0185	0.0185	102	
\$ PCB-153L	38:27	3343428	1.30	0.9169	44.5	44.5	0.4214	0.4214	89.08	
* PCB-138L	39:41	6563932	1.28		100.0	100.0				
\$ PCB-159L	41:56	4312836	1.30	0.5118	99.8	99.8	0.6210	0.6210	99.77	
D PCB-167L	42:42	8445294	1.31	1.2572	102.3	102.3	0.3206	0.3206	102	
D PCB-156L	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-157L (C156L)	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-169L	47:04	8207279	1.29	1.2439	100.5	100.5	0.3241	0.3241	101	
PCB-155	31:24	6090078	1.28	0.9444	112.5	112.5	0.0796	0.0796	112	
PCB-152	31:35	5450811	1.27	0.9895	96.1	96.1	0.0760	0.0760	96.06	
PCB-150	31:45	6127358	1.25	1.0132	105.5	105.5	0.0742	0.0742	105	
PCB-136	32:07	5541573	1.28	1.0116	95.5	95.5	0.0744	0.0744	95.53	
PCB-145	32:24	5840861	1.26	0.9685	105.2	105.2	0.0777	0.0777	105	
PCB-148	33:56	4111619	1.25	0.7603	94.3	94.3	0.0989	0.0989	94.31	
PCB-135	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-151 (C135)	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-154	34:46	5476583	1.25	0.8129	117.5	117.5	0.0925	0.0925	117	
PCB-144	35:05	4158464	1.28	0.7852	92.4	92.4	0.0958	0.0958	92.35	
PCB-147	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-149 (C147)	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-134	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-143 (C134)	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-139	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-140 (C139)	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-131	36:14	6125595	1.25	0.7503	99.7	99.7	1.174	1.174	99.73	
PCB-142	36:23	5738296	1.24	0.7507	93.4	93.4	1.173	1.173	93.37	
PCB-132	36:42	6329307	1.24	0.7489	103.2	103.2	1.176	1.176	103	
PCB-133	37:13	6282580	1.24	0.8096	94.8	94.8	1.088	1.088	94.79	
PCB-165	37:36	8477247	1.26	1.0247	101.1	101.1	0.8592	0.8592	101	
PCB-146	37:51	8161387	1.24	0.9637	103.4	103.4	0.9137	0.9137	103	
PCB-161	37:59	9304402	1.25	1.1288	100.7	100.7	0.7800	0.7800	101	
PCB-153	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-168 (C153)	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-141	38:39	7856757	1.24	0.8755	109.6	109.6	1.006	1.006	110	
PCB-130	39:04	6119481	1.24	0.7051	106.0	106.0	1.249	1.249	106	
PCB-137	39:17	6821305	1.21	0.7767	107.3	107.3	1.134	1.134	107	
PCB-164	39:24	9995366	1.25	1.0382	117.6	117.6	0.8480	0.8480	118	
PCB-129	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-138 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-160 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-163 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-158	40:06	11258096	1.24	1.3110	104.9	104.9	0.6716	0.6716	105	
PCB-128	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-166 (C128)	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-159	41:57	10014801	1.23	1.3856	88.3	88.3	0.6354	0.6354	88.28	
PCB-162	42:14	10282972	1.22	1.2571	99.9	99.9	0.7004	0.7004	99.92	
PCB-167	42:43	9852940	1.23	1.1159	104.6	104.6	0.6491	0.6491	105	
PCB-156	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-157 (C156)	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-169	47:05	9448864	1.27	1.1628	99.0	99.0	0.6468	0.6468	99.01	
S Total Heptachlorobiphenyls					2467.5	2467.5	0.0680	0.0680		
D PCB-188L	37:06	6609962	1.05	1.3133	99.3	99.3	0.0226	0.0226	99.34	
\$ PCB-178L	40:09	2418279	1.05	1.0313	46.3	46.3	0.0287	0.0287	92.57	
* PCB-180L	45:14	5066313	1.06		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:29	4177003	1.08	0.8362	98.6	98.6	0.0354	0.0354	98.60	
D PCB-189L	49:36	10375043	1.07	1.4414	101.2	101.2	0.3972	0.3972	101	
PCB-188	37:07	7230306	1.08	1.1350	96.4	96.4	0.0462	0.0462	96.38	
PCB-179	37:27	7310684	1.07	1.4276	94.9	94.9	0.0460	0.0460	94.95	
PCB-184	37:58	7772186	1.05	1.3672	105.4	105.4	0.0480	0.0480	105	
PCB-176	38:20	7223648	1.06	1.2331	108.6	108.6	0.0533	0.0533	109	
PCB-186	38:47	7091463	1.04	1.4737	89.2	89.2	0.0446	0.0446	89.22	
PCB-178	40:10	5054358	1.06	0.8946	104.8	104.8	0.0734	0.0734	105	
PCB-175	40:48	5425795	1.06	0.9524	105.6	105.6	0.0690	0.0690	106	
PCB-187	41:05	5750661	1.07	1.1018	96.8	96.8	0.0596	0.0596	96.77	
PCB-182	41:16	5978453	1.06	0.9247	119.9	119.9	0.0710	0.0710	120	
PCB-183	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-185 (C183)	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-174	41:55	5712753	1.07	0.9642	109.9	109.9	0.0681	0.0681	110	
PCB-177	42:21	5234215	0.99	0.9773	99.3	99.3	0.0672	0.0672	99.30	
PCB-181	42:45	5249952	1.06	0.9505	102.4	102.4	0.0691	0.0691	102	
PCB-171	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-173 (C171)	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-172	44:36	5010827	1.05	0.8519	109.1	109.1	0.0771	0.0771	109	
PCB-192	44:53	6407979	1.07	1.3459	88.3	88.3	0.0488	0.0488	88.28	
PCB-180	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-193 (C180)	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-191	45:37	7199239	1.06	1.2891	103.5	103.5	0.0509	0.0509	104	
PCB-170	46:30	5214600	1.04	1.1865	105.2	105.2	0.0741	0.0741	105	
PCB-190	47:02	6997680	1.06	1.3322	97.4	97.4	0.0493	0.0493	97.39	
PCB-189	49:38	10666309	1.05	0.9633	106.7	106.7	0.2183	0.2183	107	
S Total Octachlorobiphenyls					1819.4	1819.4	0.1226	0.1226		
D PCB-202L	42:27	4923092	0.90	0.9818	99.0	99.0	0.0140	0.0140	98.97	
* PCB-194L	51:43	7109366	0.91		100.0	100.0				
D PCB-205L	52:10	8498492	0.92	1.1786	101.4	101.4	0.0712	0.0712	101	
PCB-202	42:29	8468737	0.90	1.0359	166.1	166.1	0.0575	0.0575	111	
PCB-201	43:24	8730003	0.91	0.9754	181.8	181.8	0.0610	0.0610	121	
PCB-204	44:05	8442210	0.91	1.0485	163.5	163.5	0.0568	0.0568	109	
PCB-197	44:18	7912802	0.89	1.1458	140.3	140.3	0.0520	0.0520	93.52	
PCB-200	44:25	8280585	0.91	1.0072	167.0	167.0	0.0591	0.0591	111	
PCB-198	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-199 (C198)	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-196	47:53	6138982	0.89	0.7806	159.7	159.7	0.0763	0.0763	106	
PCB-203	48:04	6336967	0.91	0.9292	138.5	138.5	0.0641	0.0641	92.35	
PCB-195	49:23	10004472	0.90	0.8263	142.5	142.5	0.3271	0.3271	94.98	
PCB-194	51:44	11502338	0.91	0.9735	139.0	139.0	0.2776	0.2776	92.69	
PCB-205	52:12	14343070	0.90	1.0878	155.2	155.2	0.2485	0.2485	103	
S Total Nonachlorobiphenyls					423.6	423.6	0.3600	0.3600		
D PCB-208L	49:08	6760397	0.82	0.9576	99.3	99.3	0.2461	0.2461	99.30	
D PCB-206L	53:56	5062798	0.82	0.6947	102.5	102.5	0.3392	0.3392	103	
PCB-208	49:09	11369581	0.78	1.1374	147.9	147.9	0.3498	0.3498	98.57	
PCB-207	50:05	11589174	0.79	1.3756	142.5	142.5	0.3311	0.3311	95.01	
PCB-206	53:57	8998894	0.80	1.3346	133.2	133.2	0.3990	0.3990	88.79	
D PCB-209L	55:34	4860874	0.73	0.6669	102.5	102.5	0.0770	0.0770	103	
DCB Decachlorobiphenyl	55:35	8078366	0.70	1.1004	151.0	151.0	0.0505	0.0505	101	
S Polychlorinated biphenyls, Total					19552	19552	0.3608	0.3608		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61MX209ICVS_00010

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0032883-007
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist:
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10103777	4095861	3106	7765	1319		
202.0766	11:36	11:36	-1	0.726	3310292	1331893	1619	4047	823	3.05(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10030467	3409421	3106	7765	1098		
202.0766	13:45	13:46	-1	0.861	3131725	1055587	1619	4047	652	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	5850066	2371808	2745	6862	864		
190.0363	11:36	11:37	-1	1.001	1855481	744562	862	2155	864	3.15(2.66-3.60)	
PCB-2											
188.0393	13:35	13:36	-2	0.988	5623875	1844092	2745	6862	672		
190.0363	13:35	13:36	-2	0.988	1782884	586009	862	2155	680	3.15(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	5859143	1964980	2745	6862	716		
190.0363	13:46	13:47	-1	1.001	1843260	617524	862	2155	716	3.18(2.66-3.60)	
PCB-4L											
234.0406	14:00	14:02	-2	0.876	3344986	1063170	1120	2800	949		
236.0376	14:00	14:02	-2	0.876	2074015	675055	217	542	3111	1.61(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5147891	1483695	1120	2800	1325		
236.0376	15:58	15:59	-1		3227571	920658	217	542	4243	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.200	2560875	700385	1120	2800	625		
236.0376	16:48	16:50	-2	1.200	1578679	440253	217	542	2029	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-2	1.245	5569429	1333844	1120	2800	1191		
236.0376	19:53	19:54	-2	1.245	3379586	834330	217	542	3845	1.65(1.33-1.79)	
PCB-4											
222.0003	14:01	14:02	-1	1.002	1925034	613170	147	367	4171		
223.9974	14:01	14:02	-1	1.002	1202304	380856	252	630	1511	1.60(1.33-1.79)	
PCB-10											
222.0003	14:11	14:13	-2	1.013	3166372	1003249	147	367	6825		
223.9974	14:11	14:13	-2	1.013	1964404	631997	252	630	2508	1.61(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.142	3056424	916469	147	367	6234		
223.9974	15:59	16:00	-1	1.142	1860477	551822	252	630	2190	1.64(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-2	1.153	3100401	891503	147	367	6065		
223.9974	16:09	16:10	-2	1.153	1970071	559010	252	630	2218	1.57(1.33-1.79)	
PCB-6											
222.0003	16:23	16:25	-2	1.171	3081385	875858	147	367	5958		
223.9974	16:23	16:25	-2	1.171	1923116	542995	252	630	2155	1.60(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.193	3041883	865913	147	367	5891		
223.9974	16:42	16:43	-2	1.193	1914725	543382	252	630	2156	1.59(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.202	3269707	892828	147	367	6074		
223.9974	16:49	16:50	-2	1.201	2051178	550386	252	630	2184	1.59(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.928	3077529	817580	147	367	5562		
223.9974	18:27	18:28	-1	0.928	1934500	501236	252	630	1989	1.59(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	2956006	745986	147	367	5075		
223.9974	19:17	19:18	-1	0.970	1854907	474147	252	630	1882	1.59(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	3350939	782858	147	367	5326		
223.9974	19:54	19:55	-1	1.001	2100253	483826	252	630	1920	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1732998	475392	445	1112	1068		
269.9986	17:06	17:08	-2	0.840	1632215	450808	1019	2547	442	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		2891371	674119	445	1112	1515		
269.9986	20:22	20:23	-1		2577913	644990	1019	2547	633	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8002433	1889916	810	2025	2333		
269.9986	22:37	22:38	-1		7616100	1792994	521	1302	3441	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	3873743	895493	810	2025	1106		
269.9986	22:55	22:56	-1	1.013	3710266	837875	521	1302	1608	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:54	26:55	-1	1.190	7101526	1479555	810	2025	1827		
269.9986	26:54	26:55	-1	1.190	6618455	1372655	521	1302	2635	1.07(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	1046701	279702	211	527	1326		
257.9584	17:07	17:09	-2	1.001	1002607	271758	116	290	2343	1.04(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	1202754	306907	211	527	1455		
257.9584	19:24	19:26	-2	1.135	1156970	293962	116	290	2534	1.04(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	1582269	396871	211	527	1881		
257.9584	19:37	19:39	-2	1.147	1529902	372926	116	290	3215	1.03(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	1504350	375414	211	527	1779		
257.9584	19:45	19:46	-1	1.155	1452149	376031	116	290	3242	1.04(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	1030230	261432	211	527	1239		
257.9584	19:52	19:53	-1	1.162	976878	247521	116	290	2134	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	1682114	415647	211	527	1970		
257.9584	20:23	20:23	-1	1.192	1604215	403987	116	290	3483	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	3797306	924707	7638	19095	121		
257.9584	21:38	21:39	-1	1.265	3589367	879511	5579	13947	158	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-1	1.274	3807327	894920	7638	19095	117		
257.9584	21:47	21:48	-1	1.274	3556237	839685	5579	13947	151	1.07(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	4297437	911223	7638	19095	119		
257.9584	22:20	22:21	-1	0.830	4051255	853504	5579	13947	153	1.06(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	4092978	943513	7638	19095	124		
257.9584	22:38	22:40	-2	0.841	3884694	904096	5579	13947	162	1.05(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	3655206	842267	7638	19095	110		
257.9584	23:34	23:35	-1	0.876	3485905	798810	5579	13947	143	1.05(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	4540214	882522	7638	19095	116		
257.9584	25:08	25:09	-1	0.934	4070030	828526	5579	13947	149	1.12(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	3760741	789234	7638	19095	103		
257.9584	25:29	25:30	-1	0.947	3631959	759447	5579	13947	136	1.04(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	4102901	877260	7638	19095	115		
257.9584	26:04	26:05	-1	0.969	3855316	824339	5579	13947	148	1.06(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	3921309	785906	7638	19095	103		
257.9584	26:31	26:32	-1	0.986	3666883	736665	5579	13947	132	1.07(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	4057382	824639	7638	19095	108		
257.9584	26:56	26:57	-1	1.001	3810791	794829	5579	13947	142	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:11	20:12	-2	0.815	1418019	347973	146	365	2383		
303.9597	20:11	20:12	-2	0.815	1732097	439160	8	20	54895	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:45	24:46	-2		3456171	771135	1272	3180	606		
303.9597	24:45	24:46	-2		4327654	957616	1796	4490	533	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	2192285	441931	1272	3180	347		
303.9597	32:40	32:41	-1	0.970	2733038	553333	1796	4490	308	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4308382	864591	1272	3180	680		
303.9597	33:40	33:41	-1	1.360	5338051	1056607	1796	4490	588	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4563300	872792	1272	3180	686		
303.9597	34:13	34:14	-1	1.383	5699685	1099462	1796	4490	612	0.80(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	1939754	496773	183	457	2715		
291.9194	20:12	20:13	-1	1.000	2448222	619151	192	480	3225	0.79(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	3391513	798861	3079	7697	259		
291.9194	23:21	23:22	-1	1.157	4288607	1003242	3640	9100	276	0.79(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	3687517	835179	3079	7697	271		
291.9194	24:46	24:47	-1	1.228	4617995	1048972	3640	9100	288	0.80(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.266	3761963	851454	3079	7697	277		
291.9194	25:32	25:33	-1	1.266	4776969	1070664	3640	9100	294	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.303	3359085	745228	3079	7697	242		
291.9194	26:18	26:18	-1	1.303	4345339	956578	3640	9100	263	0.77(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.338	5246898	1140770	3079	7697	371		
291.9194	27:00	27:01	-1	1.338	6710017	1452540	3640	9100	399	0.78(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	5289603	1145156	3079	7697	372		
291.9194	27:50	27:51	-1	0.827	6565324	1425591	3640	9100	392	0.81(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	5656579	1099567	3079	7697	357		
291.9194	28:07	28:09	-2	0.835	7021477	1397838	3640	9100	384	0.81(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	5039105	1076197	3079	7697	350		
291.9194	28:33	28:34	-1	0.848	6358102	1375881	3640	9100	378	0.79(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	5176893	1063979	3079	7697	346		
291.9194	28:47	28:48	-1	0.855	6482361	1333018	3640	9100	366	0.80(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	6227236	1210732	3079	7697	393		
291.9194	28:57	28:58	-1	0.860	7881492	1546045	3640	9100	425	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	-1	0.868	5423527	1089464	3079	7697	354		
291.9194	29:13	29:14	-1	0.868	6835826	1372350	3640	9100	377	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	5322566	1060845	3079	7697	345		
291.9194	29:52	29:53	-1	0.887	6704633	1361616	3640	9100	374	0.79(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	0	0.892	4892403	1008379	3079	7697	328		
291.9194	30:02	30:03	-1	0.892	6160897	1266861	3640	9100	348	0.79(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	4870744	1000617	3079	7697	325		
291.9194	30:33	30:33	0	0.908	6194598	1259566	3640	9100	346	0.79(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	5172901	1057678	3079	7697	344		
291.9194	30:45	30:46	-1	0.914	6541963	1324261	3640	9100	364	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	6237956	1241113	3079	7697	403		
291.9194	31:10	31:11	-1	0.926	7842689	1574931	3640	9100	433	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	6199108	1193231	3079	7697	388		
291.9194	32:41	32:42	-1	0.971	7736368	1491950	3640	9100	410	0.80(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	4701413	887555	3079	7697	288		
291.9194	33:15	33:15	0	0.988	5901427	1157905	3640	9100	318	0.80(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	4661203	888530	3079	7697	289		
291.9194	33:41	33:42	-1	1.001	5779312	1112088	3640	9100	306	0.81(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	5090422	986507	3079	7697	320		
291.9194	34:15	34:16	-1	1.001	6437066	1241053	3640	9100	341	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:41	25:42	-1	0.813	3945007	897940	86	215	10441		
339.9178	25:41	25:42	-1	0.813	2476076	561112	94	235	5969	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	1377977	294169	86	215	3421		
339.9178	28:40	28:41	-1	1.116	862101	191325	94	235	2035	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3180729	645710	86	215	7508		
339.9178	31:36	31:37	-1		1998189	400831	94	235	4264	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2075145	417586	86	215	4856		
339.9178	34:16	34:17	-1	1.085	1276281	263893	94	235	2807	1.63(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:15	0	1.147	5869660	1170803	5247	13117	223		
339.9178	36:14	36:15	0	1.147	3703122	739285	3633	9082	203	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6143066	1196225	5247	13117	228		
339.9178	36:34	36:34	0	1.157	3864671	754827	3633	9082	208	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	5991890	1148412	5247	13117	219		
339.9178	37:05	37:06	-1	1.173	3803468	734858	3633	9082	202	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	5801657	1127585	5247	13117	215		
339.9178	37:44	37:45	0	1.194	3616723	707507	3633	9082	195	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6084552	1180716	5247	13117	225		
339.9178	39:13	39:14	-1		3822750	741401	3633	9082	204	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5820339	1092467	5247	13117	208		
339.9178	40:49	40:50	-1	1.292	3665908	691827	3633	9082	190	1.59(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	4970315	1094090	175	437	6252		
327.8775	25:43	25:44	-1	1.001	3141200	689066	150	375	4594	1.58(1.32-1.78)	
PCB-96											
325.8804	26:04	26:06	-2	1.015	3965677	853238	175	437	4876		
327.8775	26:04	26:06	-2	1.015	2528306	543557	150	375	3624	1.57(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	3292810	688553	175	437	3935		
327.8775	28:01	28:02	-1	1.091	2069502	436911	150	375	2913	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	3124029	645282	175	437	3687		
327.8775	28:14	28:16	-2	1.099	1996352	416634	150	375	2778	1.56(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	2870473	604866	175	437	3456		
327.8775	28:41	28:42	-1	1.117	1824852	382101	150	375	2547	1.57(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	3225200	646939	175	437	3697		
327.8775	29:46	29:47	-1	1.159	1996360	401164	150	375	2674	1.62(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	2719038	558420	175	437	3191		
327.8775	30:15	30:16	-1	1.177	1761051	356973	150	375	2380	1.54(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	4634993	969529	175	437	5540		
327.8775	30:40	30:41	-1	1.194	2898949	600754	150	375	4005	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	2864439	576958	175	437	3297		
327.8775	31:02	31:03	-1	0.856	1817184	361184	150	375	2408	1.58(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	5101475	998365	175	437	5705		
327.8775	32:19	32:20	-1	1.258	3186136	628612	150	375	4191	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-85											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	2950994	544151	175	437	3109		
327.8775	33:54	33:55	-1	1.320	1863858	342832	150	375	2286	1.58(1.32-1.78)	
PCB-111											
325.8804	34:18	34:19	-1	1.335	4776944	953835	175	437	5450		
327.8775	34:18	34:19	-1	1.335	3054108	601055	150	375	4007	1.56(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	4605720	900570	175	437	5146		
327.8775	34:46	34:47	-1	1.353	2892227	572211	150	375	3815	1.59(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	7924661	1469063	6049	15122	243		
327.8775	36:09	36:09	0	1.407	5082789	950730	4524	11310	210	1.56(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	6845228	1322505	6049	15122	219		
327.8775	36:16	36:16	0	1.001	4352617	836312	4524	11310	185	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	6125838	1201365	6049	15122	199		
327.8775	36:22	36:23	-1	1.004	3876411	760237	4524	11310	168	1.58(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	7093346	1292708	6049	15122	214		
327.8775	36:35	36:36	-1	1.000	4560358	828709	4524	11310	183	1.56(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	4868640	945045	6049	15122	156		
327.8775	36:56	36:56	0	1.010	3091849	615669	4524	11310	136	1.57(1.32-1.78)	
PCB-114											
325.8804	37:06	37:08	-1	1.000	7173348	1322839	6049	15122	219		
327.8775	37:06	37:08	-1	1.000	4560788	848772	4524	11310	188	1.57(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	5830889	1039658	6049	15122	172		
327.8775	37:45	37:46	-1	1.000	3766190	674957	4524	11310	149	1.55(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	6722234	1205018	6049	15122	199		
327.8775	39:14	39:15	0	1.040	4190045	767073	4524	11310	170	1.60(1.32-1.78)	
PCB-126											
325.8804	40:50	40:52	-1	1.000	6710597	1146373	6049	15122	190		
327.8775	40:50	40:52	-1	1.000	4255402	738709	4524	11310	163	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3236837	659635	51	127	12934		
373.8788	31:22	31:23	-1	0.790	2497553	519602	33	82	15746	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.900	1886831	360399	165	412	2184		
373.8788	38:27	38:27	0	0.900	1456597	277060	1856	4640	149	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3681908	707682	165	412	4289		
373.8788	39:41	39:41	0		2882024	545586	1856	4640	294	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4312836	821131	165	412	4977		
373.8788	41:55	41:56	-1	0.982	3318028	629774	1856	4640	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4782672	899237	165	412	5450		
373.8788	42:42	42:42	0	1.076	3662622	690148	1856	4640	372	1.31(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:05	0	1.186	4621255	858979	165	412	5206		
373.8788	47:04	47:05	0	1.186	3586024	671593	1856	4640	362	1.29(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	3423414	679395	208	520	3266		
361.8385	31:24	31:25	-1	1.001	2666664	538086	147	367	3660	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	3047507	619126	208	520	2977		
361.8385	31:35	31:36	0	1.007	2403304	491932	147	367	3346	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	3408883	678983	208	520	3264		
361.8385	31:45	31:46	-1	1.012	2718475	547506	147	367	3725	1.25(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	3112024	624136	208	520	3001		
361.8385	32:07	32:08	-1	1.024	2429549	485399	147	367	3302	1.28(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	3252992	638880	208	520	3072		
361.8385	32:25	32:25	0	1.033	2587869	504483	147	367	3432	1.26(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	2286267	460304	208	520	2213		
361.8385	33:56	33:57	-1	1.082	1825352	366935	147	367	2496	1.25(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.108	3043947	607352	208	520	2920		
361.8385	34:46	34:47	-1	1.108	2432636	480602	147	367	3269	1.25(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	2335991	461355	208	520	2218		
361.8385	35:05	35:06	-1	1.118	1822473	361277	147	367	2458	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-139											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-131											
359.8415	36:14	36:15	-1	1.155	3399023	659195	2719	6797	242		
361.8385	36:14	36:15	-1	1.155	2726572	530364	1886	4715	281	1.25(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	3172191	626792	2719	6797	231		
361.8385	36:23	36:24	-1	1.160	2566105	514056	1886	4715	273	1.24(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	3498390	683595	2719	6797	251		
361.8385	36:42	36:43	-1	1.170	2830917	557675	1886	4715	296	1.24(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	3472826	659110	2719	6797	242		
361.8385	37:13	37:14	-1	1.186	2809754	532295	1886	4715	282	1.24(1.05-1.43)	
PCB-165											
359.8415	37:36	37:37	0	0.881	4724402	934644	2719	6797	344		
361.8385	37:36	37:37	0	0.881	3752845	740627	1886	4715	393	1.26(1.05-1.43)	
PCB-146											
359.8415	37:51	37:52	-1	0.887	4519906	873952	2719	6797	321		
361.8385	37:51	37:52	-1	0.887	3641481	702218	1886	4715	372	1.24(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	5166670	1028442	2719	6797	378		
361.8385	37:59	38:00	0	0.890	4137732	820414	1886	4715	435	1.25(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-141											
359.8415	38:39	38:41	-1	0.905	4356749	803270	2719	6797	295		
361.8385	38:39	38:41	-1	0.905	3500008	641579	1886	4715	340	1.24(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	3392503	654070	2719	6797	241		
361.8385	39:04	39:05	-1	0.915	2726978	522713	1886	4715	277	1.24(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:17	39:18	0	0.920	3740933	745496	2719	6797	274		
361.8385	39:17	39:18	0	0.920	3080372	605157	1886	4715	321	1.21(1.05-1.43)	
PCB-164											
359.8415	39:24	39:26	-1	0.923	5553440	1057763	2719	6797	389		
361.8385	39:24	39:26	-1	0.923	4441926	833843	1886	4715	442	1.25(1.05-1.43)	
PCB-129											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	6236353	1132240	2719	6797	416		
361.8385	40:05	40:07	-1	0.939	5021743	895627	1886	4715	475	1.24(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-159											
359.8415	41:57	41:58	-1	0.982	5530168	1041554	2719	6797	383		
361.8385	41:57	41:58	-1	0.982	4484633	839095	1886	4715	445	1.23(1.05-1.43)	
PCB-162											
359.8415	42:14	42:15	-1	0.989	5643066	1004015	2719	6797	369		
361.8385	42:14	42:15	-1	0.989	4639906	810778	1886	4715	430	1.22(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	5427011	1011850	2719	6797	372		
361.8385	42:43	42:44	0	1.001	4425929	829096	1886	4715	440	1.23(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	5277331	919179	2719	6797	338		
361.8385	47:05	47:06	-1	1.000	4171533	719310	1886	4715	381	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3378327	667769	50	125	13355		
407.8398	37:06	37:07	-1	0.820	3231635	643310	62	155	10376	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	1238512	231317	50	125	4626		
407.8398	40:09	40:10	-1	0.887	1179767	230498	62	155	3718	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2609315	490821	50	125	9816		
407.8398	45:14	45:15	-1		2456998	454151	62	155	7325	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:30	-1	1.028	2172983	407370	50	125	8147		
407.8398	46:30	46:30	0	1.028	2004020	373735	62	155	6028	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5352309	993846	1111	2777	895		
407.8398	49:36	49:37	-1	1.097	5022734	914139	1909	4772	479	1.07(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	3750366	746036	90	225	8289		
395.7995	37:07	37:08	-1	1.001	3479940	695531	185	462	3760	1.08(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	3776100	716036	90	225	7956		
395.7995	37:27	37:28	-1	1.010	3534584	673941	185	462	3643	1.07(0.89-1.21)	
PCB-184											
393.8025	37:58	38:00	-1	1.024	3972950	758687	90	225	8430		
395.7995	37:58	38:00	-1	1.024	3799236	730690	185	462	3950	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	3724635	705192	90	225	7835		
395.7995	38:20	38:21	-1	1.033	3499013	665545	185	462	3598	1.06(0.89-1.21)	
PCB-186											
393.8025	38:47	38:48	0	1.046	3607055	686680	90	225	7630		
395.7995	38:47	38:48	0	1.046	3484408	662988	185	462	3584	1.04(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	2598475	494710	90	225	5497		
395.7995	40:10	40:11	-1	1.083	2455883	461843	185	462	2496	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	2789029	529892	90	225	5888		
395.7995	40:48	40:49	-1	1.100	2636766	499737	185	462	2701	1.06(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	2968885	541557	90	225	6017		
395.7995	41:05	41:05	0	1.107	2781776	534149	185	462	2887	1.07(0.89-1.21)	
PCB-182											
393.8025	41:16	41:18	-1	1.113	3074190	588191	90	225	6535		
395.7995	41:16	41:18	-1	1.113	2904263	557135	185	462	3012	1.06(0.89-1.21)	
PCB-183											
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M
PCB-174											
393.8025	41:55	41:56	-1	1.130	2954114	568489	90	225	6317		
395.7995	41:55	41:56	-1	1.130	2758639	534835	185	462	2891	1.07(0.89-1.21)	
PCB-177											
393.8025	42:21	42:22	-1	1.142	2598761	478406	90	225	5316		
395.7995	42:21	42:22	-1	1.142	2635454	451016	185	462	2438	0.99(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	2704744	510664	90	225	5674		
395.7995	42:45	42:45	0	1.152	2545208	488044	185	462	2638	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-172											
393.8025	44:36	44:37	-1	0.899	2565831	469395	90	225	5216		
395.7995	44:37	44:37	0	0.899	2444996	452663	185	462	2447	1.05(0.89-1.21)	
PCB-192											
393.8025	44:53	44:54	-1	0.905	3309907	616848	90	225	6854		
395.7995	44:53	44:54	-1	0.905	3098072	579332	185	462	3132	1.07(0.89-1.21)	
PCB-180											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	3696851	689822	90	225	7665		
395.7995	45:37	45:37	0	0.920	3502388	644505	185	462	3484	1.06(0.89-1.21)	
PCB-170											
393.8025	46:30	46:32	-1	0.938	2657108	490977	90	225	5455		
395.7995	46:30	46:32	-1	0.938	2557492	473371	185	462	2559	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	3605706	656895	90	225	7299		
395.7995	47:02	47:02	0	0.948	3391974	623690	185	462	3371	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	5461066	973634	938	2345	1038		
395.7995	49:38	49:38	0	1.001	5205243	945731	667	1667	1418	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:27	42:28	0	0.821	2329254	446693	28	70	15953		
441.8008	42:27	42:28	0	0.821	2593838	485378	24	60	20224	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3382819	627342	122	305	5142		
441.8008	51:43	51:43	0		3726547	691291	321	802	2154	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:11	-1	1.009	4062544	730307	122	305	5986		
441.8008	52:11	52:11	0	1.009	4435948	797659	321	802	2485	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	4016801	755995	82	205	9219		
429.7606	42:29	42:29	0	1.001	4451936	853705	140	350	6098	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	4156385	799459	82	205	9750		
429.7606	43:24	43:25	0	1.022	4573618	864876	140	350	6178	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	4032845	761792	82	205	9290		
429.7606	44:05	44:05	0	1.038	4409365	830238	140	350	5930	0.91(0.76-1.02)	
PCB-197											
427.7635	44:18	44:19	-1	1.043	3736624	734663	82	205	8959		
429.7606	44:18	44:19	-1	1.043	4176178	829326	140	350	5924	0.89(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	3946314	723429	82	205	8822		
429.7606	44:24	44:25	-1	1.046	4334271	788726	140	350	5634	0.91(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.918	2895071	536113	82	205	6538		
429.7606	47:53	47:53	0	0.918	3243911	599537	140	350	4282	0.89(0.76-1.02)	
PCB-203											
427.7635	48:04	48:05	-1	0.921	3025190	547111	82	205	6672		
429.7606	48:04	48:05	-1	0.921	3311777	605013	140	350	4322	0.91(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	4733065	847348	895	2237	947		
429.7606	49:23	49:23	0	0.946	5271407	964193	757	1892	1274	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.992	5467988	1007507	895	2237	1126		
429.7606	51:44	51:44	0	0.992	6034350	1121390	757	1892	1481	0.91(0.76-1.02)	
PCB-205											
427.7635	52:12	52:13	-1	1.000	6798161	1208832	895	2237	1351		
429.7606	52:12	52:13	-1	1.000	7544909	1343915	757	1892	1775	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3041296	547519	561	1402	976		
475.7619	49:08	49:09	-1	0.950	3719101	685364	682	1705	1005	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:56	53:57	0	1.043	2275732	420434	561	1402	749		
475.7619	53:56	53:57	0	1.043	2787066	500674	682	1705	734	0.82(0.65-0.89)	
PCB-208											
461.7246	49:09	49:10	-1	1.000	4971587	912861	865	2162	1055		
463.7216	49:09	49:10	-1	1.000	6397994	1174241	1097	2742	1070	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	5118756	951202	865	2162	1100		
463.7216	50:05	50:05	0	1.019	6470418	1179746	1097	2742	1075	0.79(0.65-0.89)	
PCB-206											
461.7246	53:57	53:58	-1	1.000	3990172	711220	865	2162	822		
463.7216	53:57	53:58	-1	1.000	5008722	906973	1097	2742	827	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:34	55:34	0	1.075	2052514	351405	144	360	2440		
509.7229	55:34	55:34	0	1.075	2808360	479413	127	317	3775	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:36	0	1.000	3319436	562420	80	200	7030		
497.6826	55:35	55:36	0	1.000	4758930	795243	105	262	7574	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61MX209ICVS_00010

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

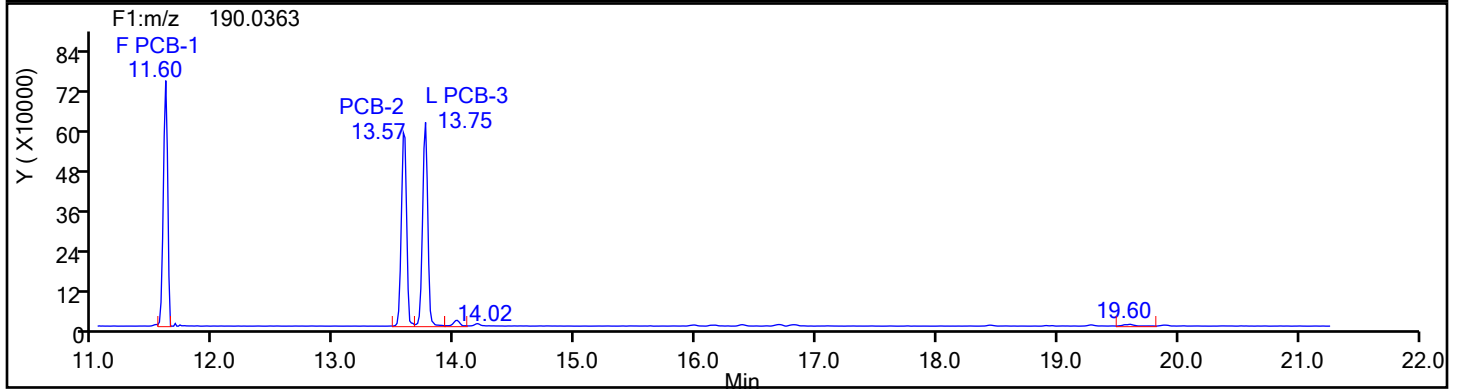
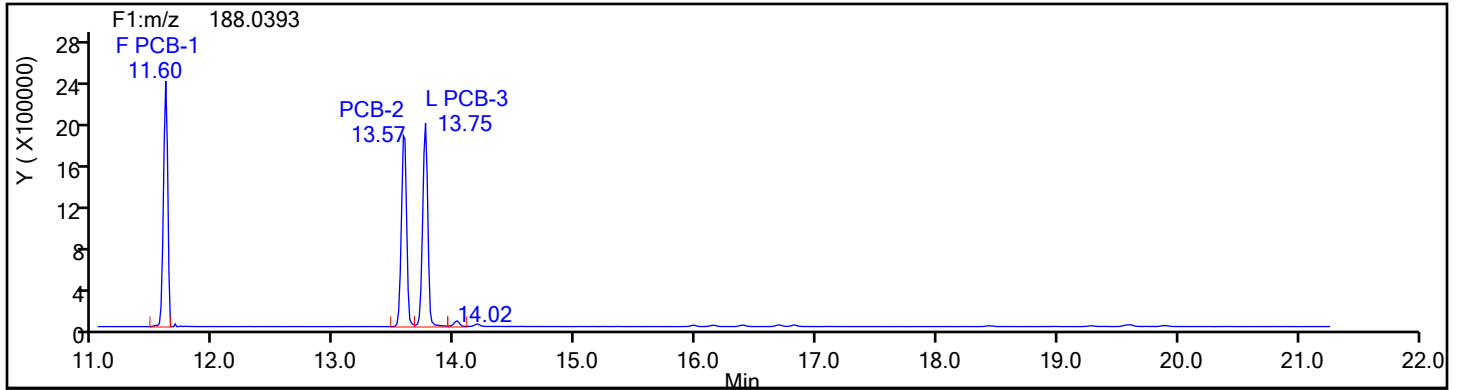
Worklist#: 87130

Sample Line#: 7

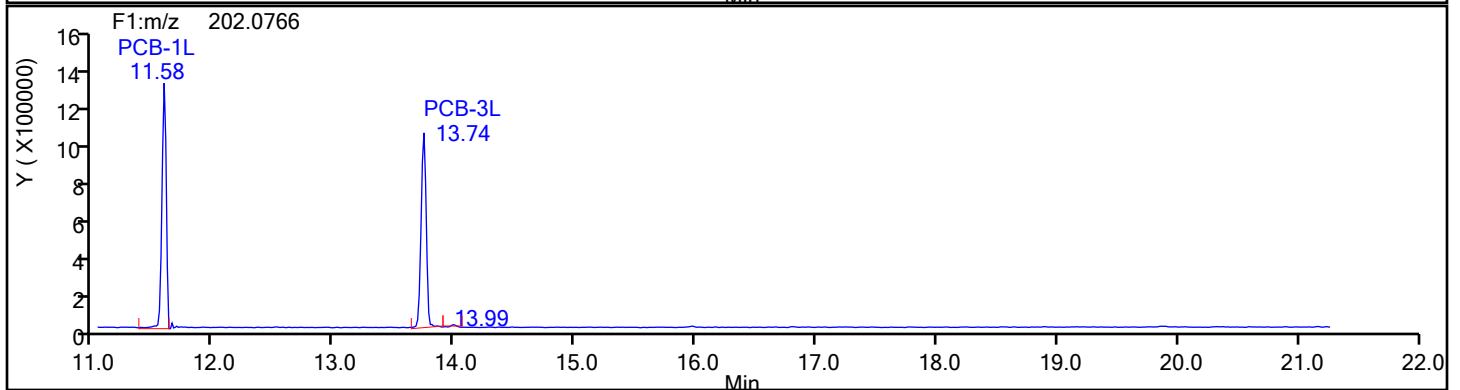
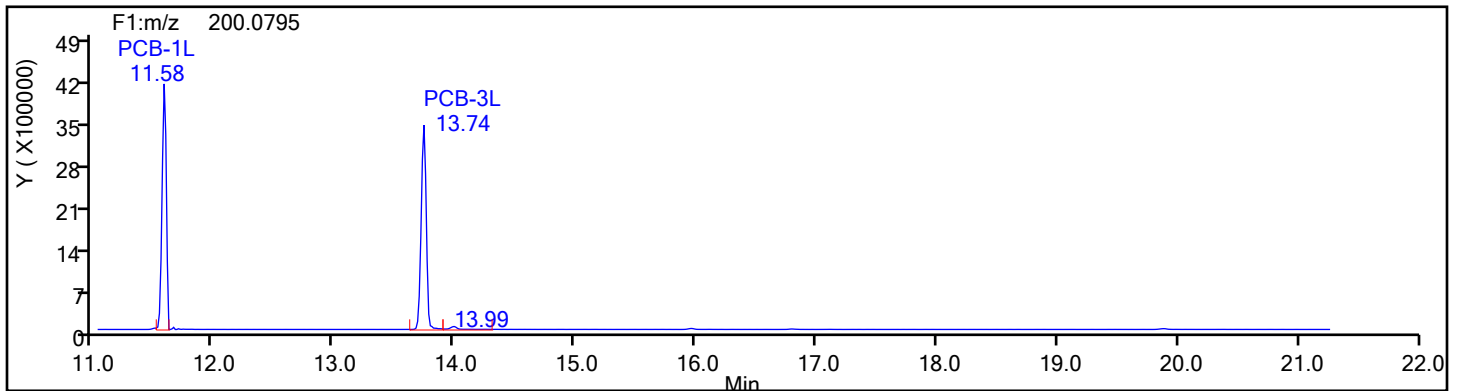
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

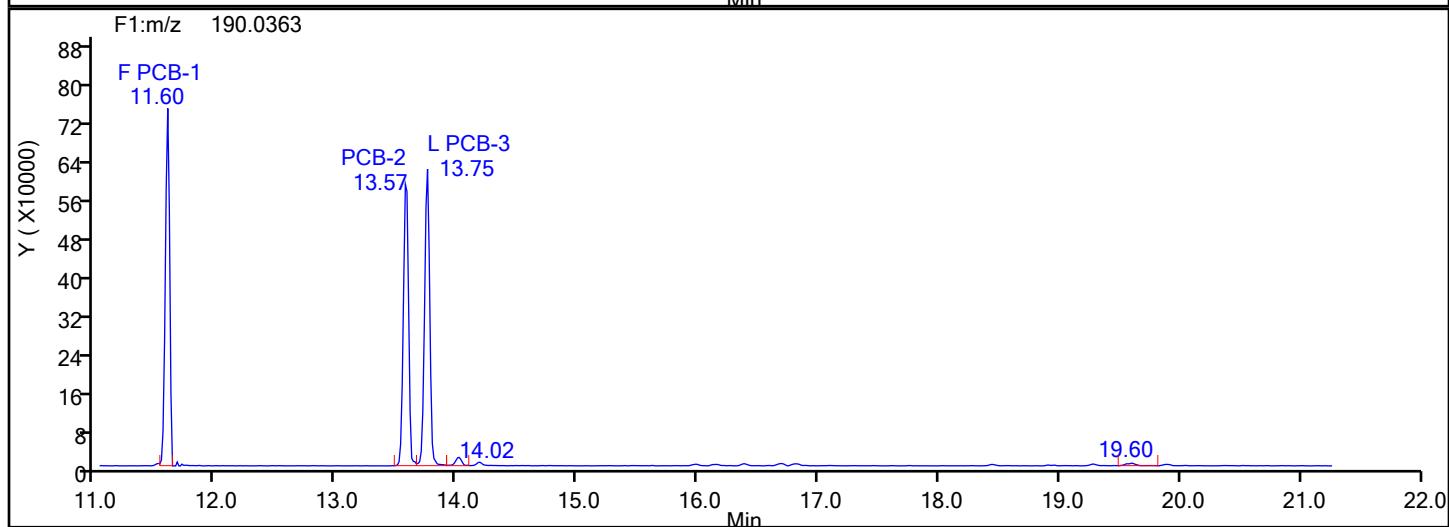
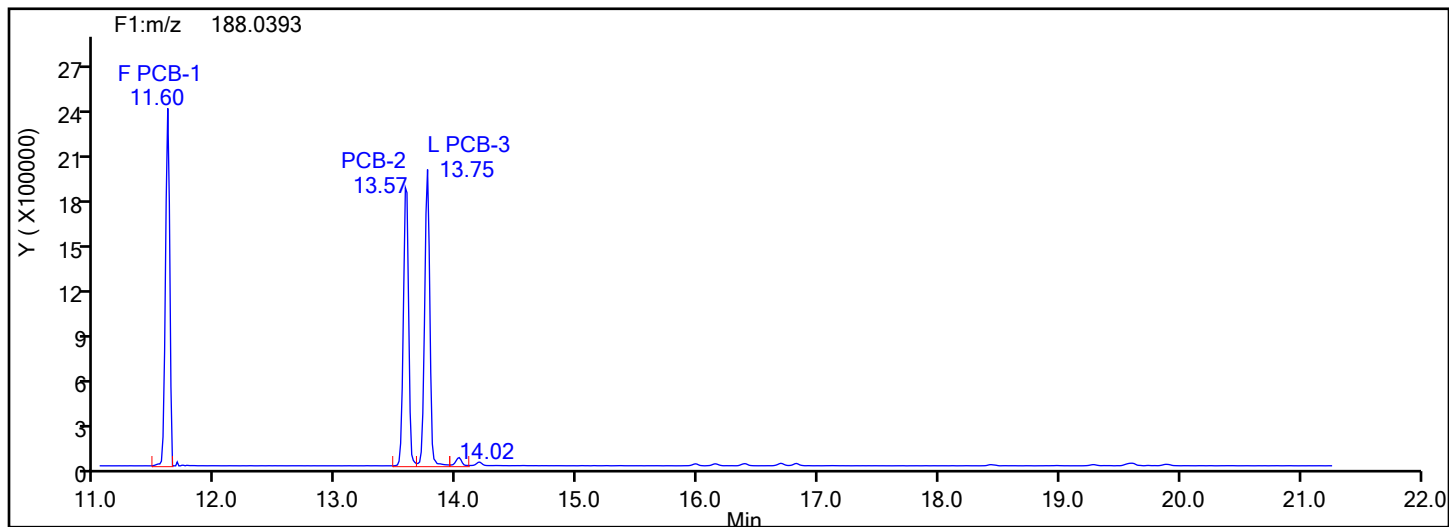
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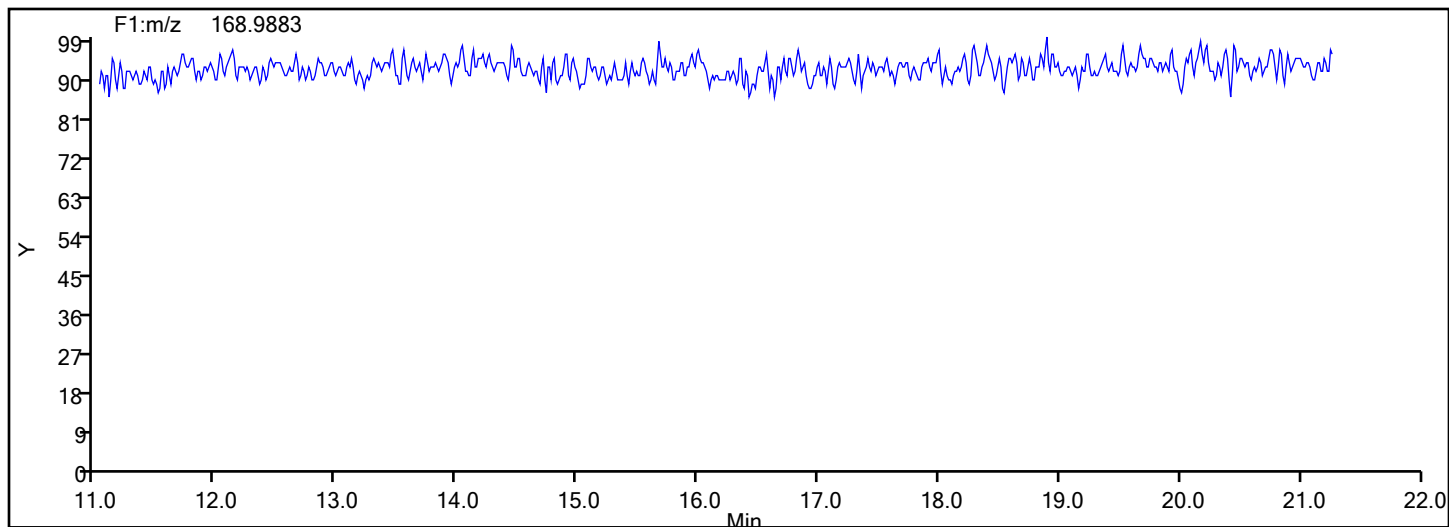
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

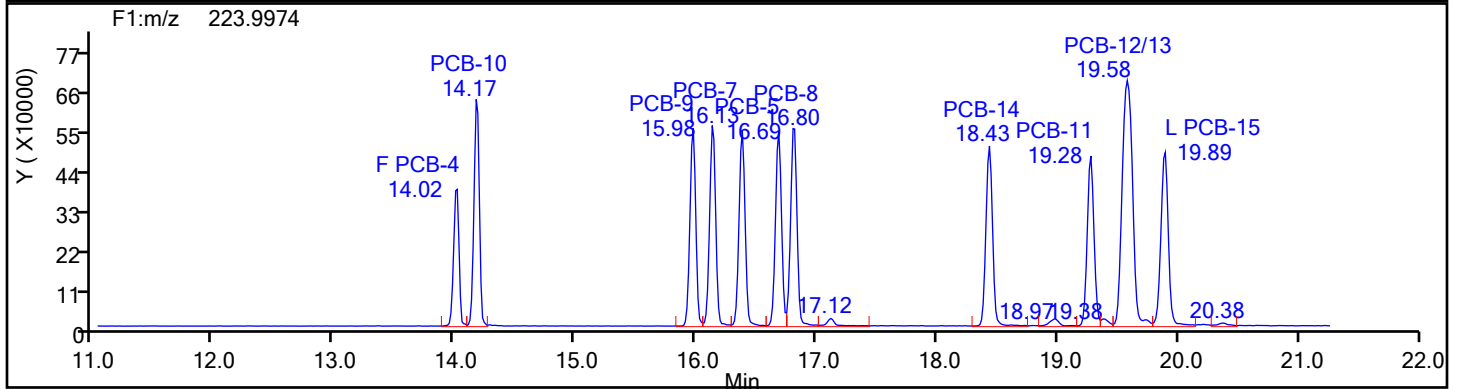
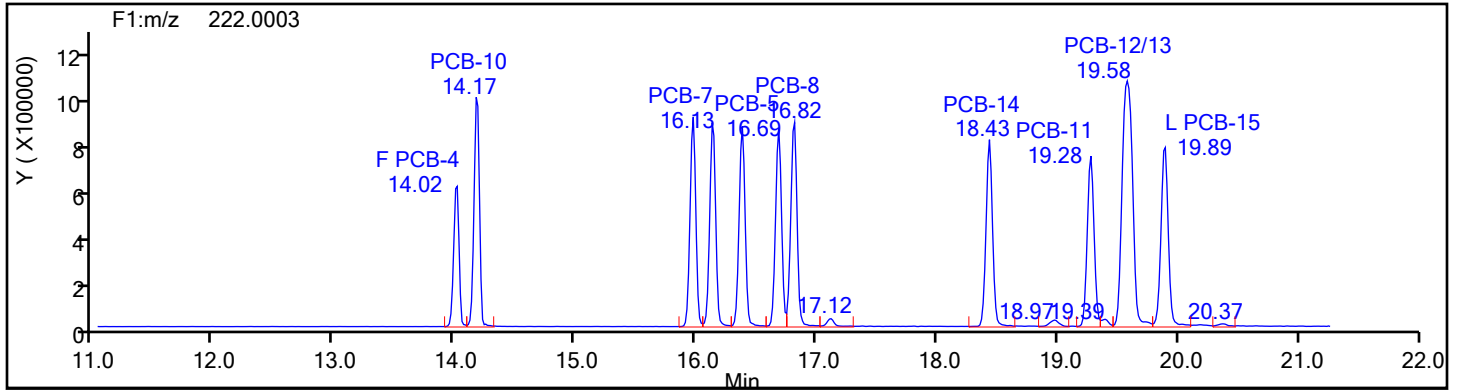
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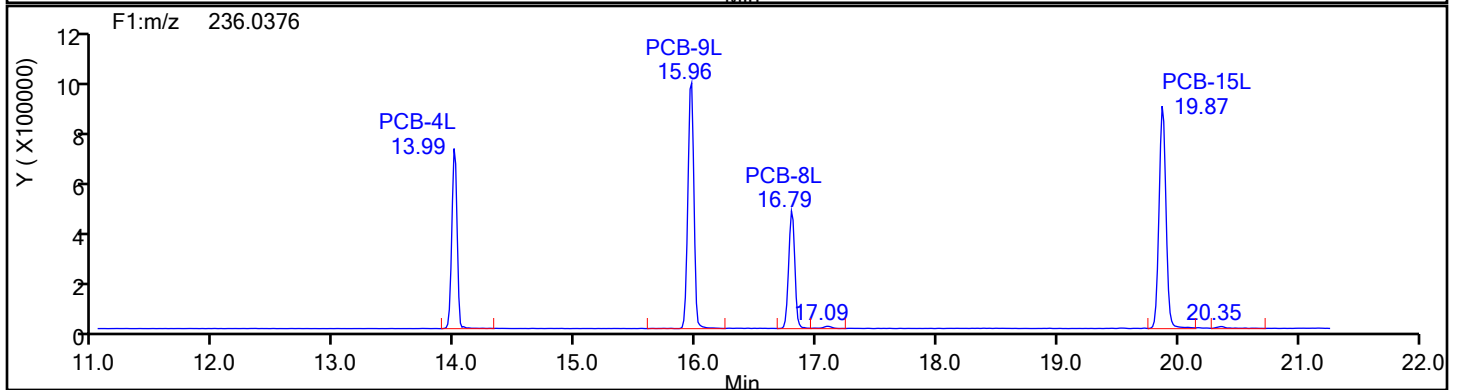
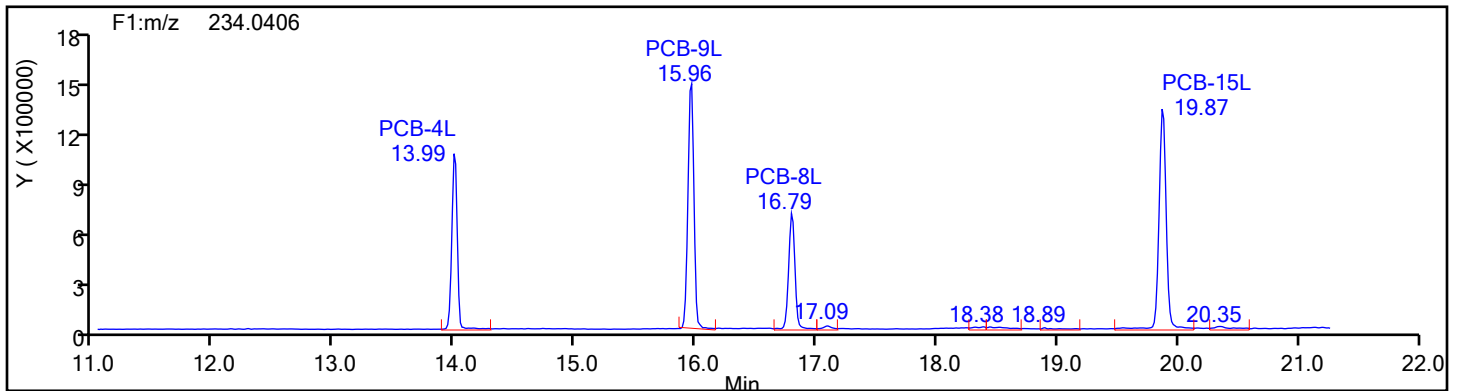
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

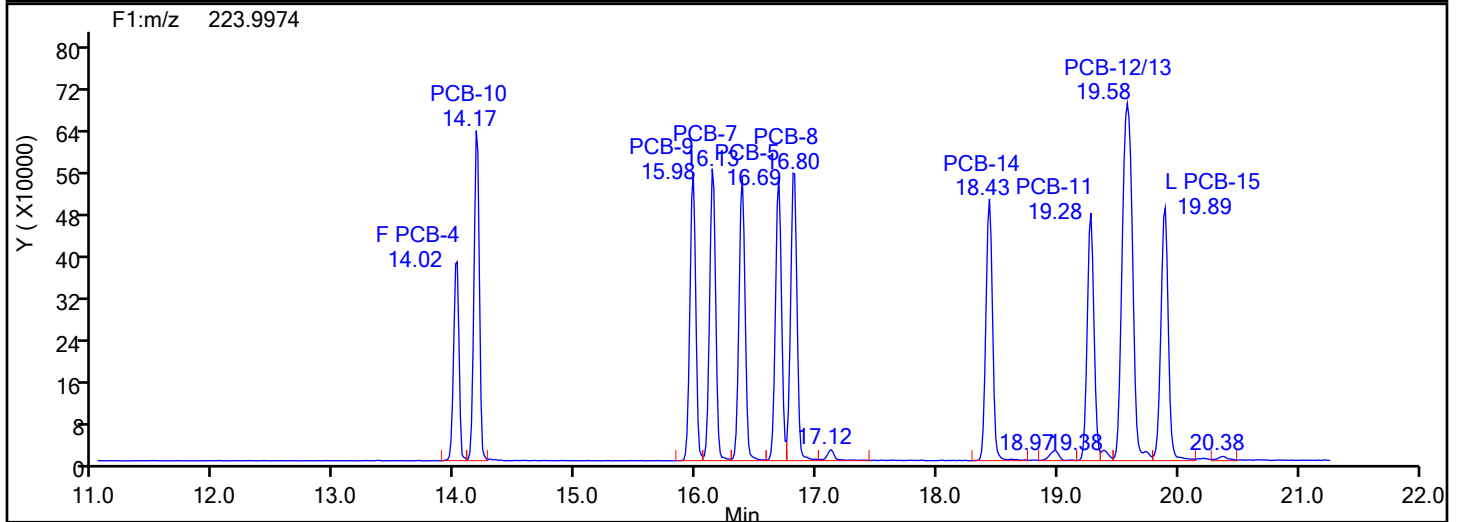
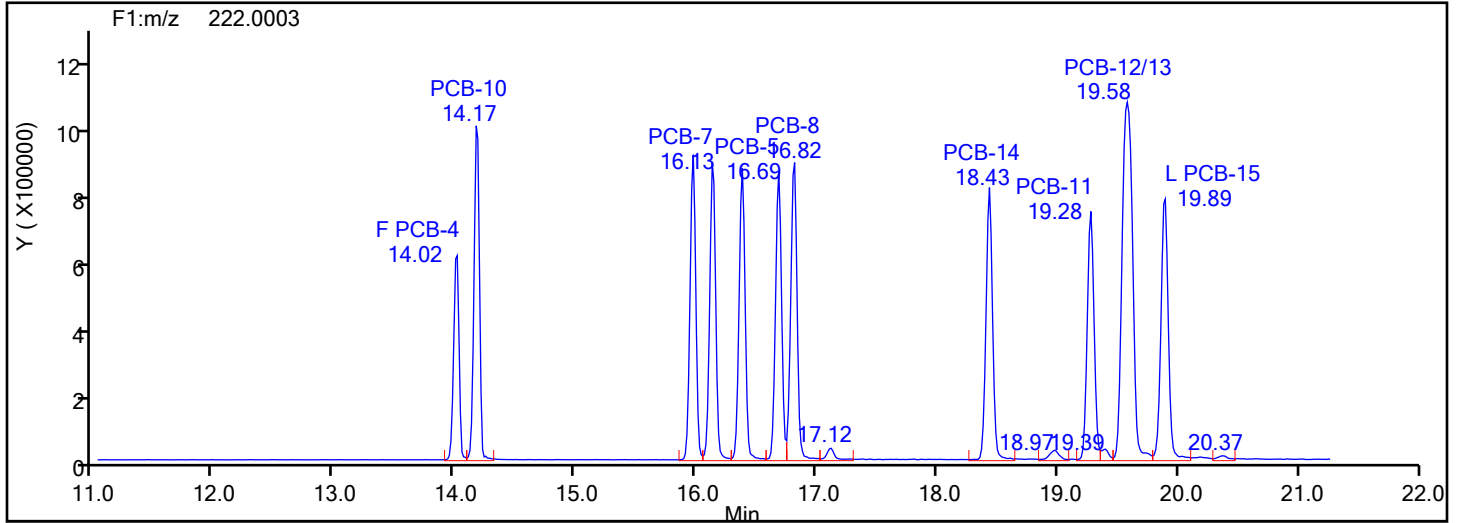
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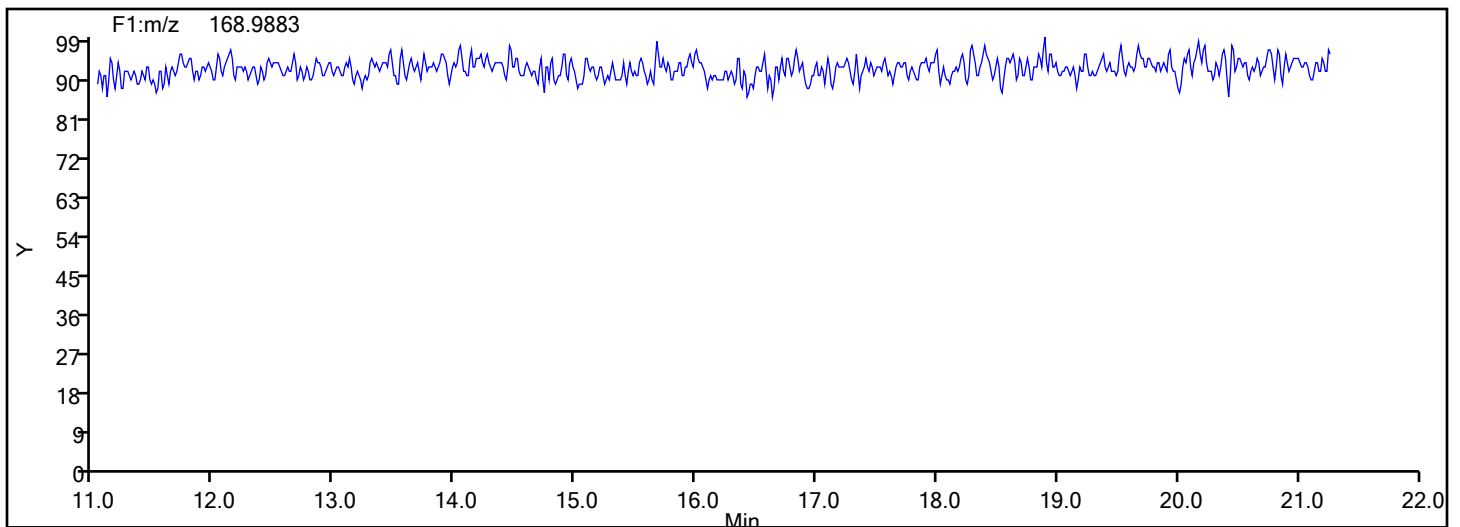
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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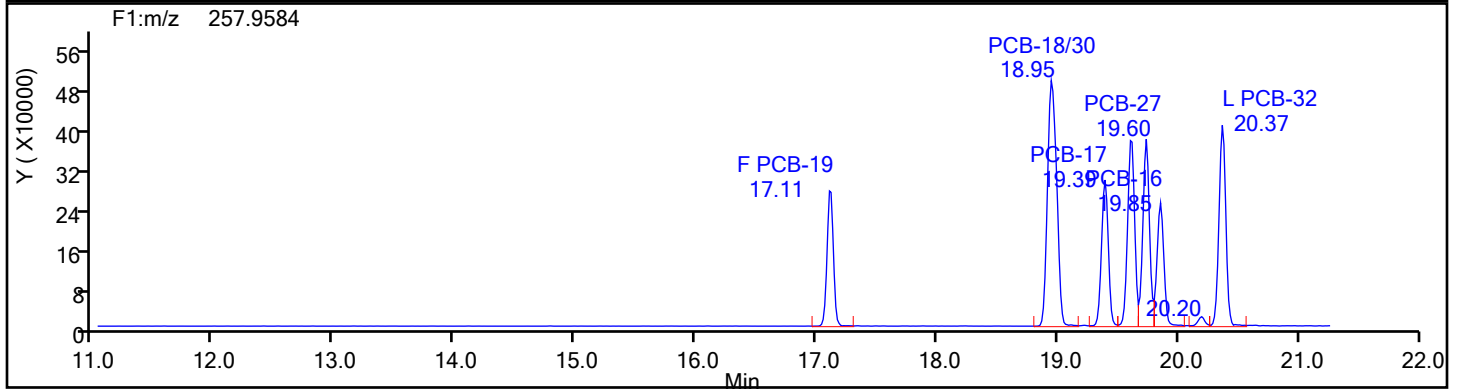
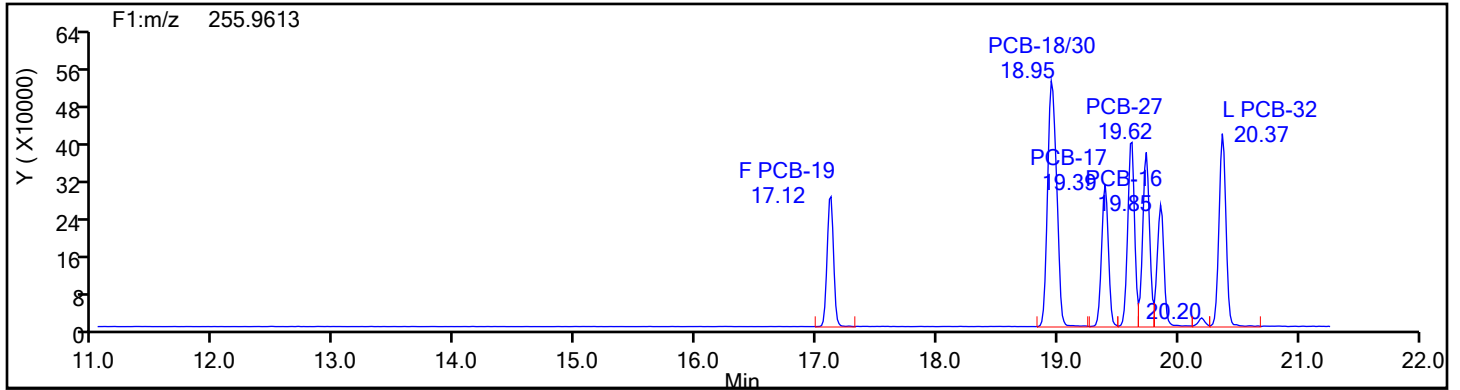
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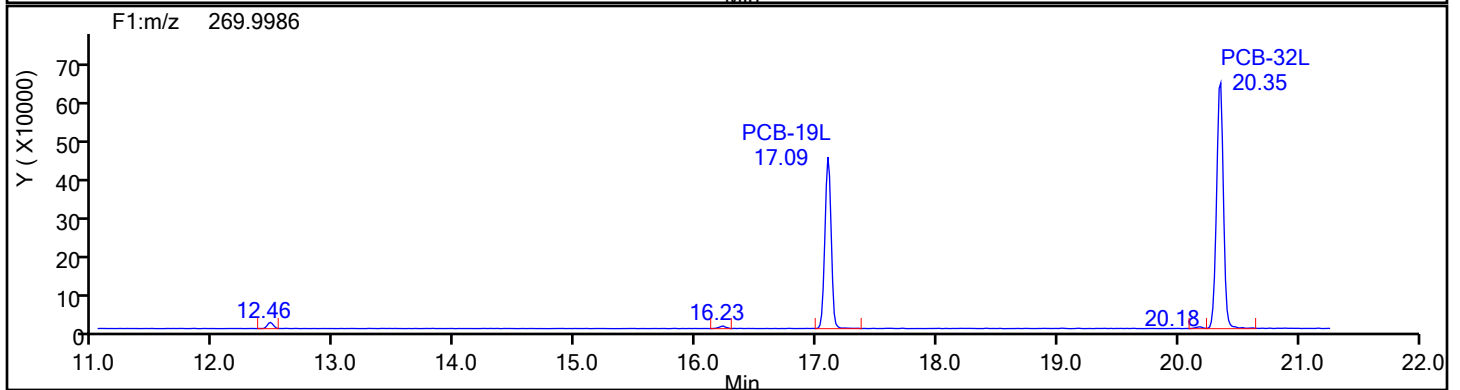
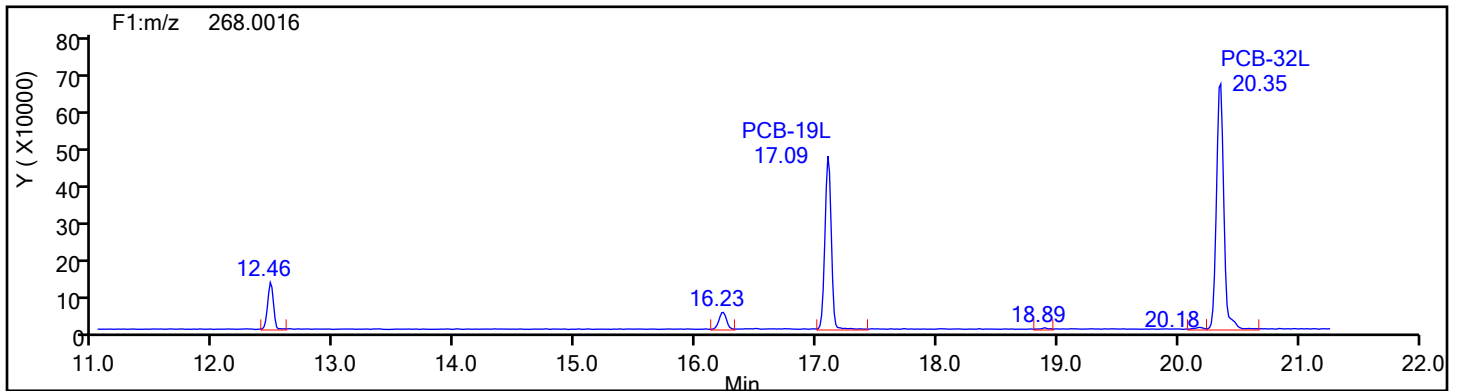
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

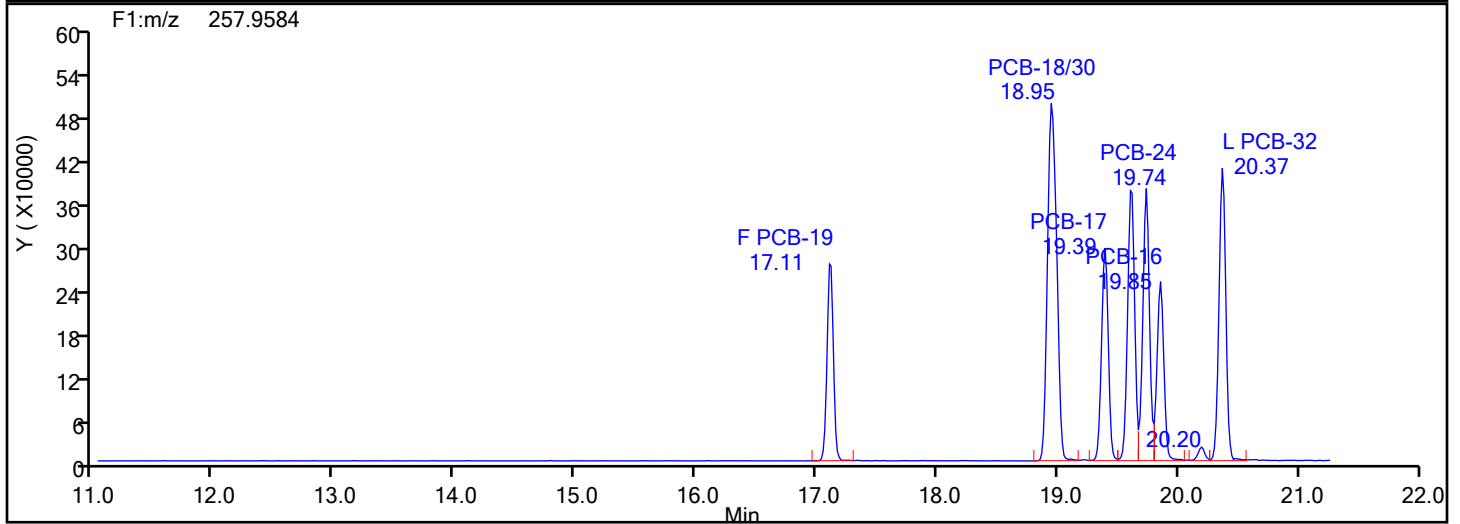
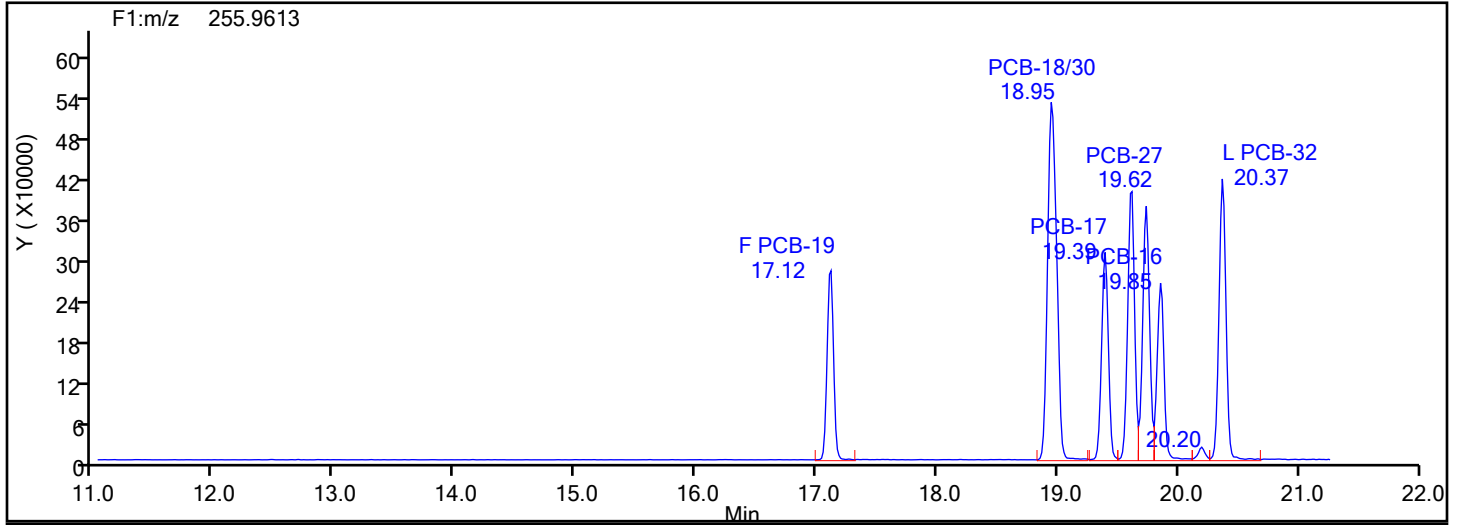
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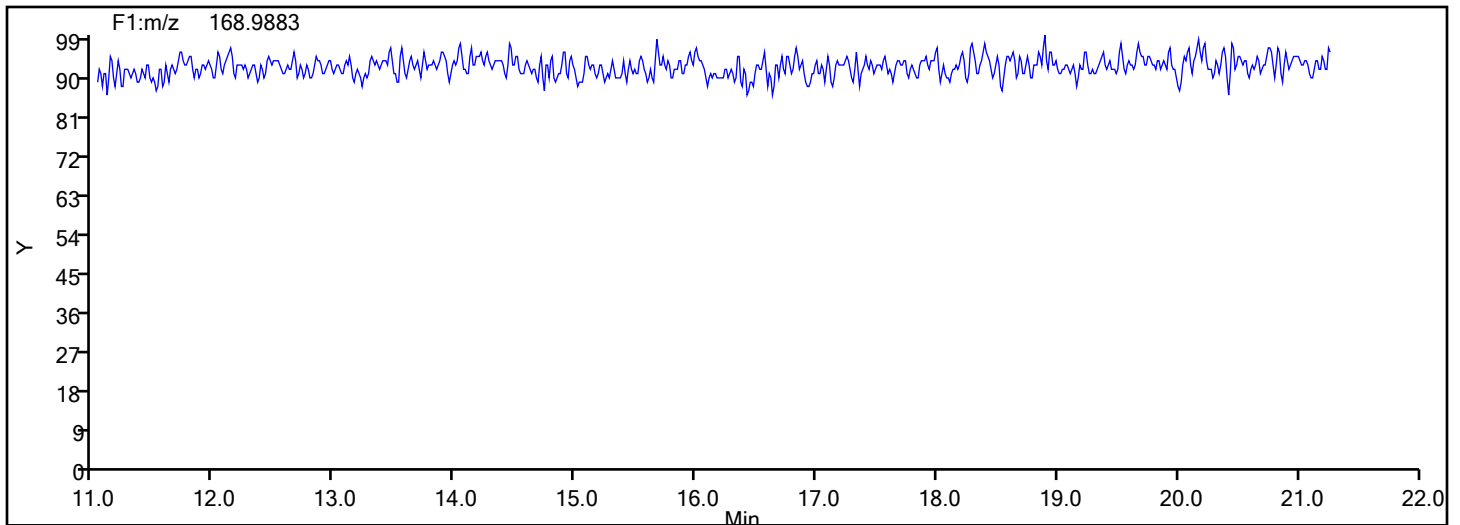
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

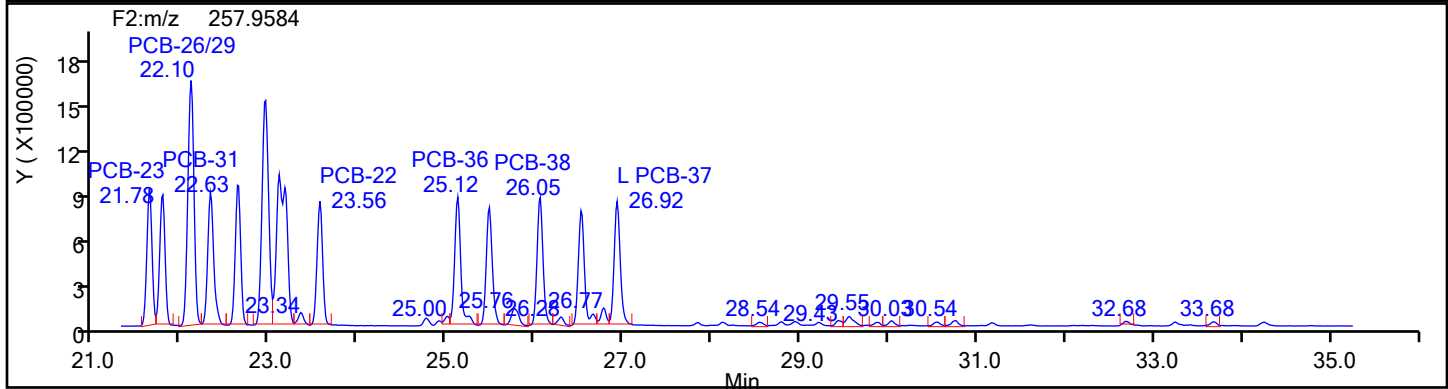
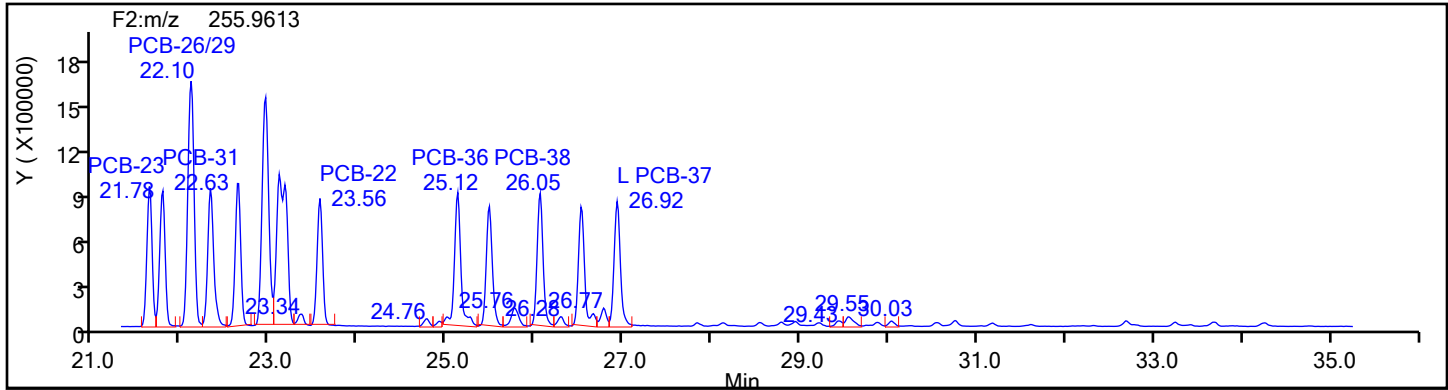
Worklist#: 87130

Sample Line#: 7

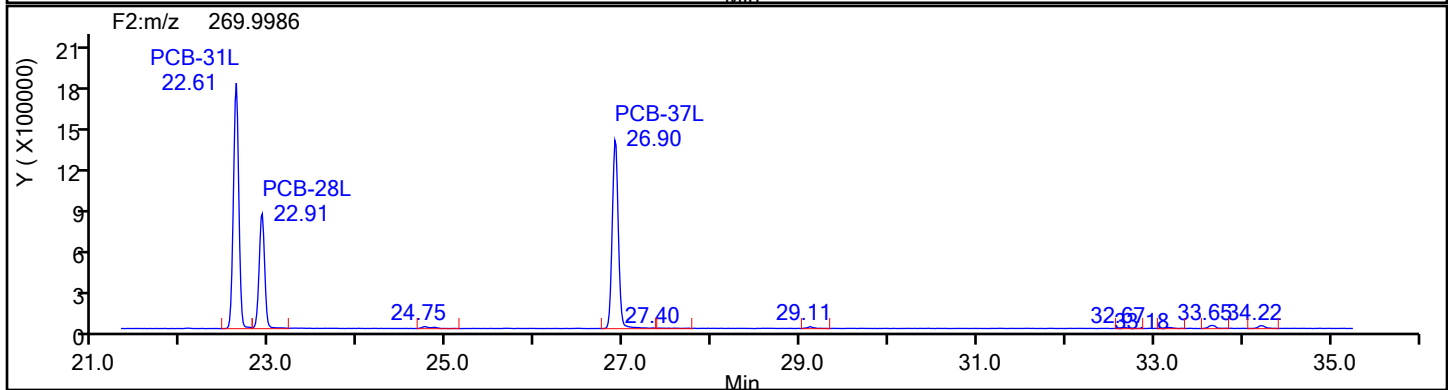
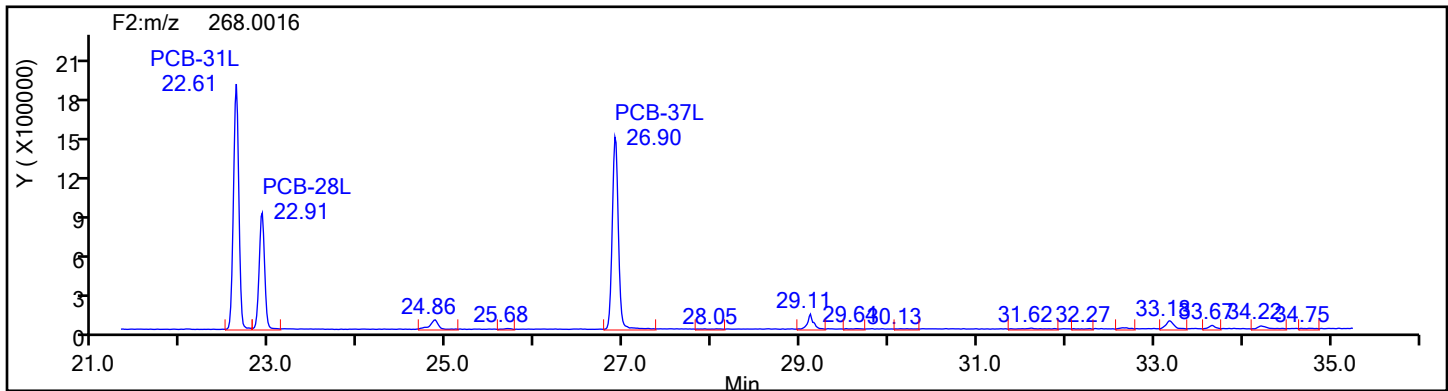
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

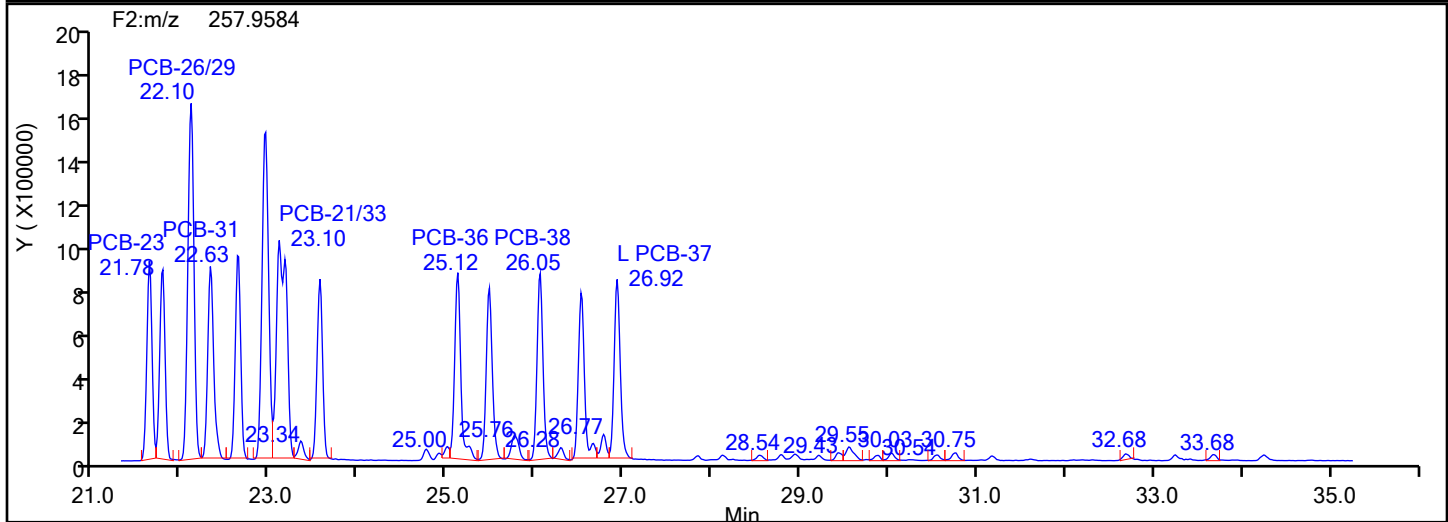
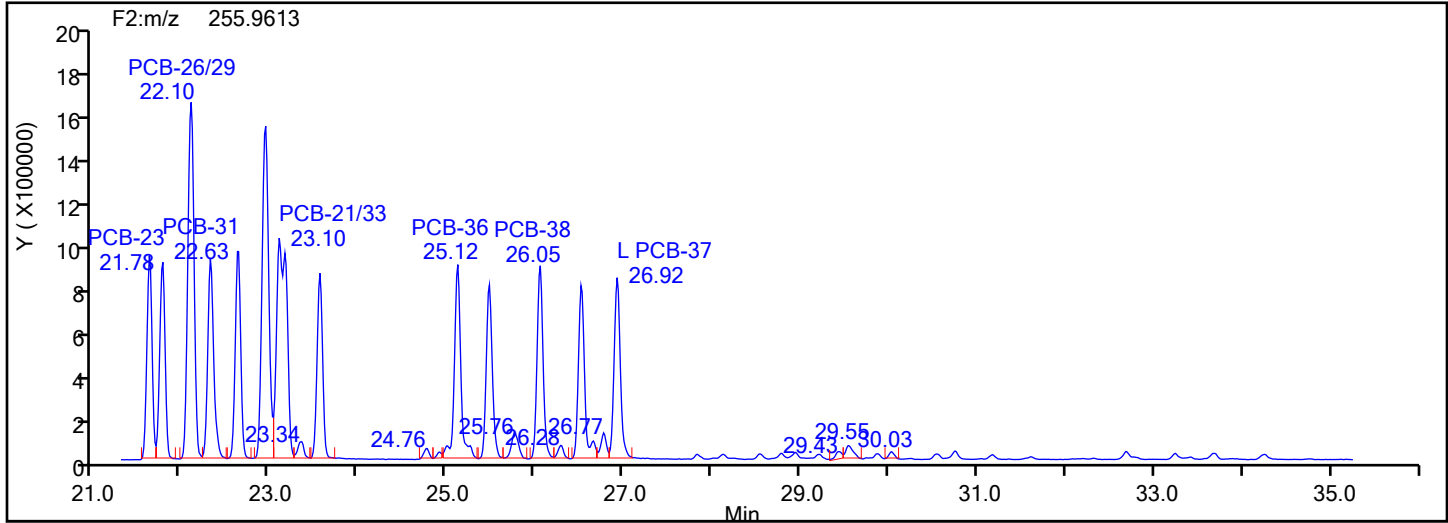
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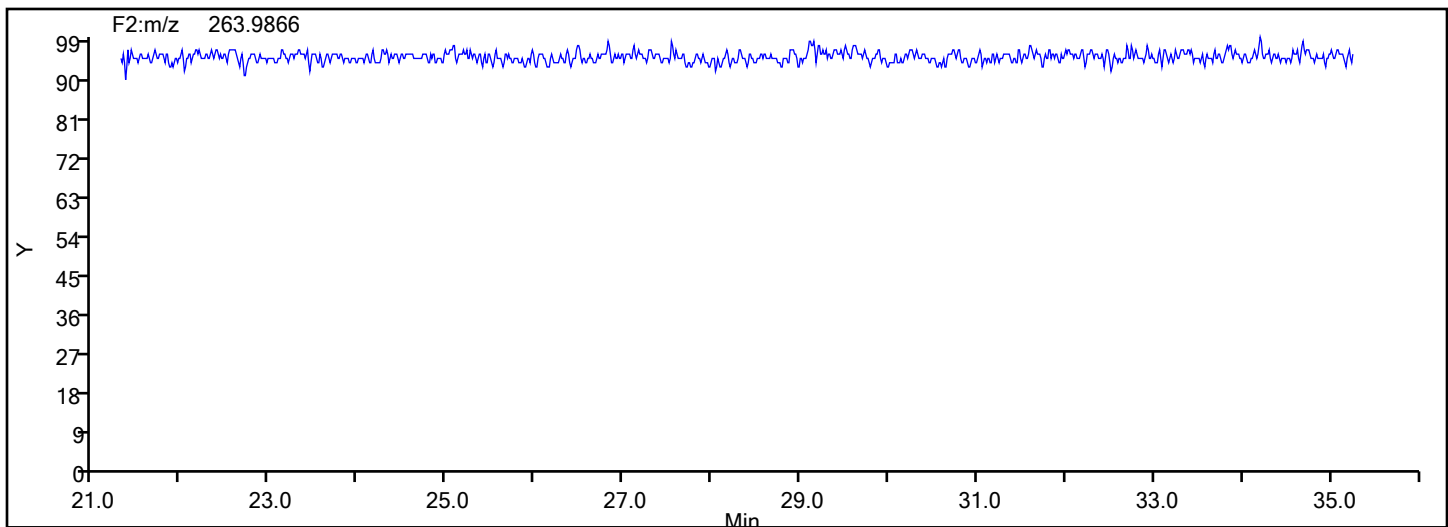
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

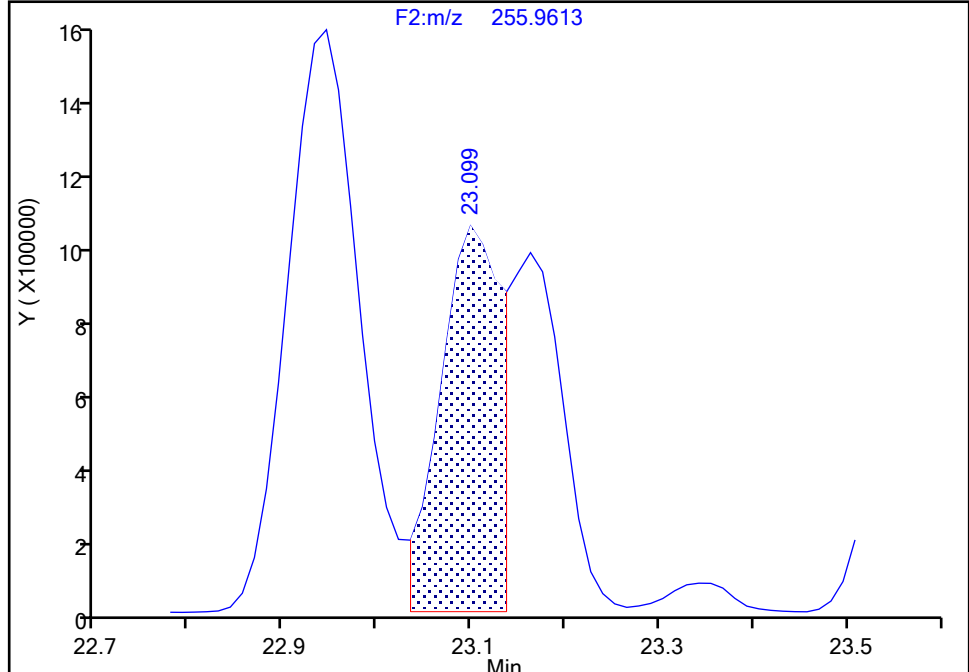
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

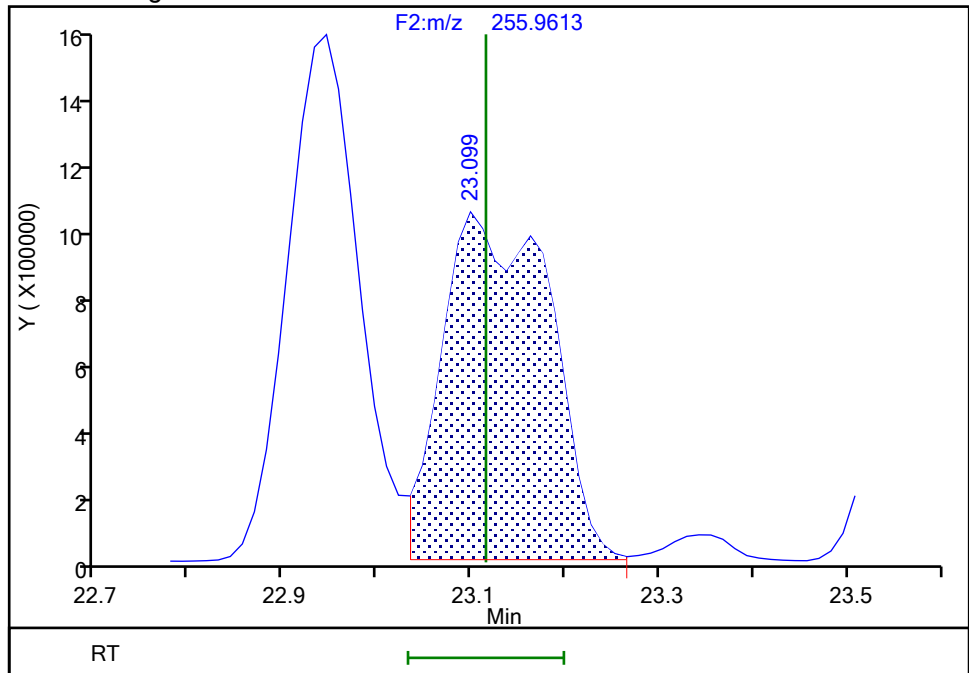
RT: 23.10
Area: 4348927
Amount: 58.859184
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7956098
Amount: 106.5455
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

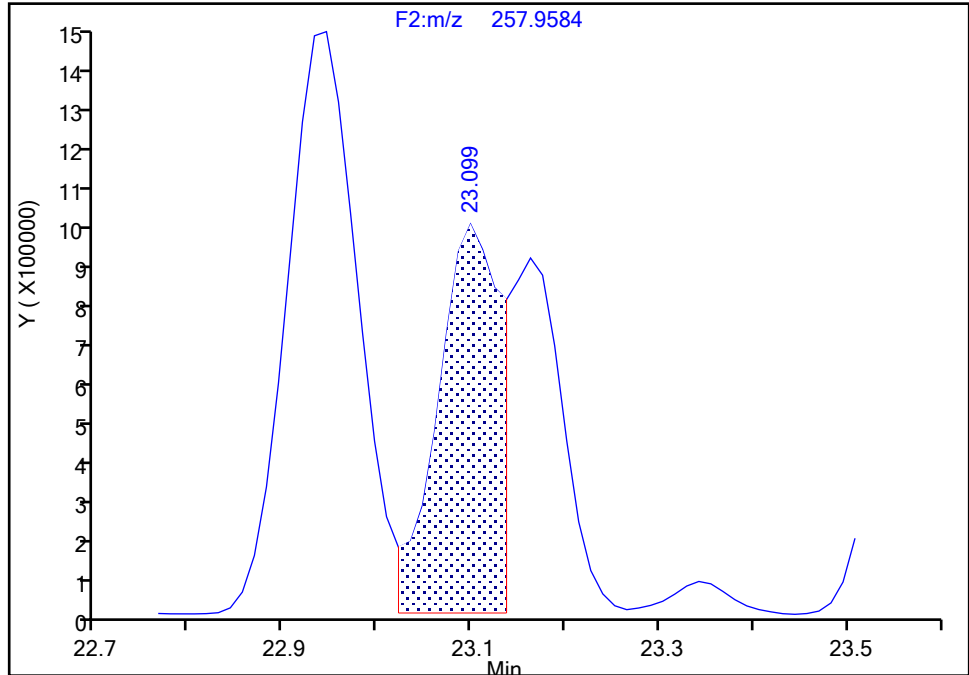
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

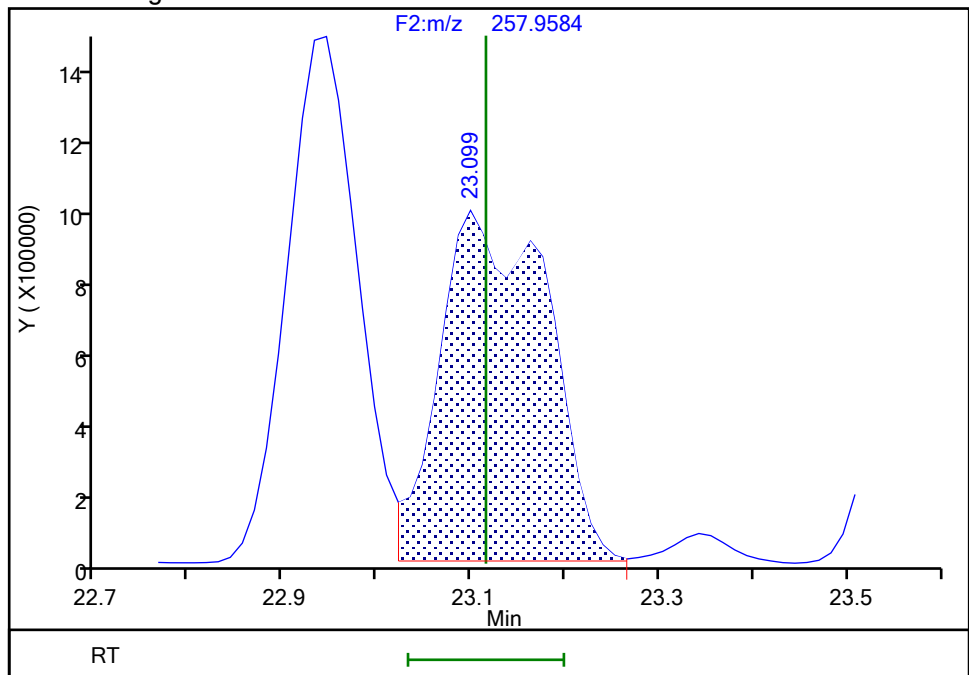
RT: 23.10
Area: 4328847
Amount: 58.859184
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7752210
Amount: 106.5455
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2580 of 3050

BASFWC-McIntosh-010581

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

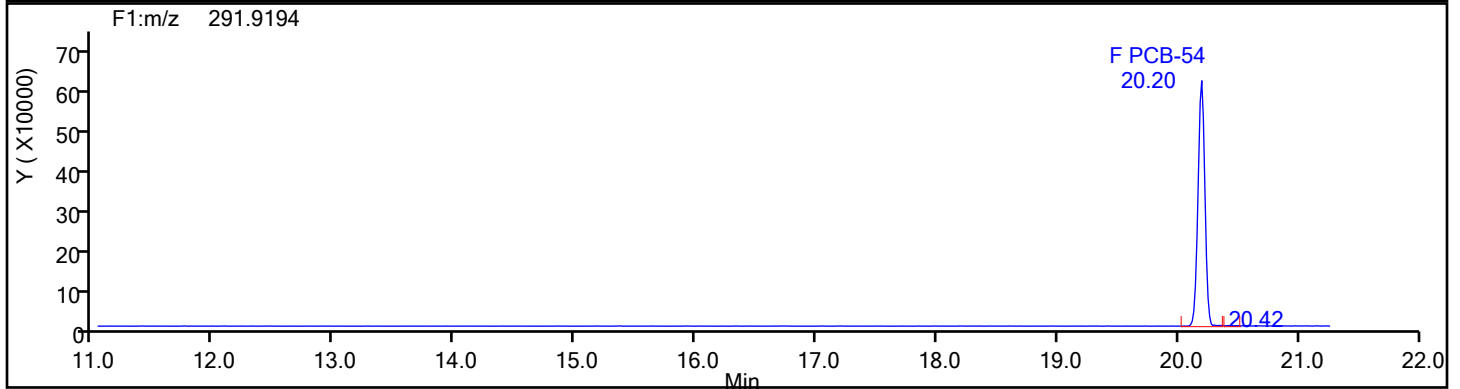
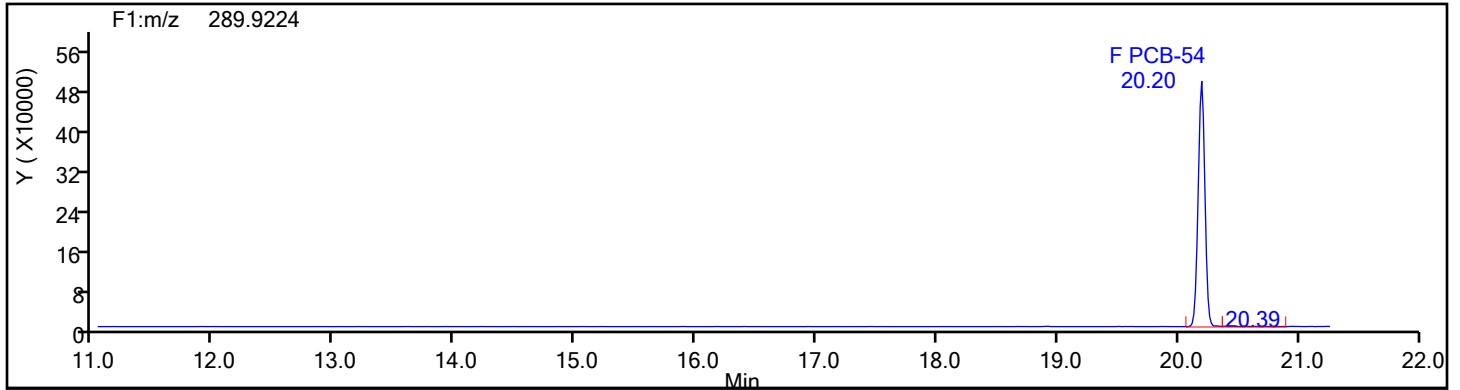
Worklist#: 87130

Sample Line#: 7

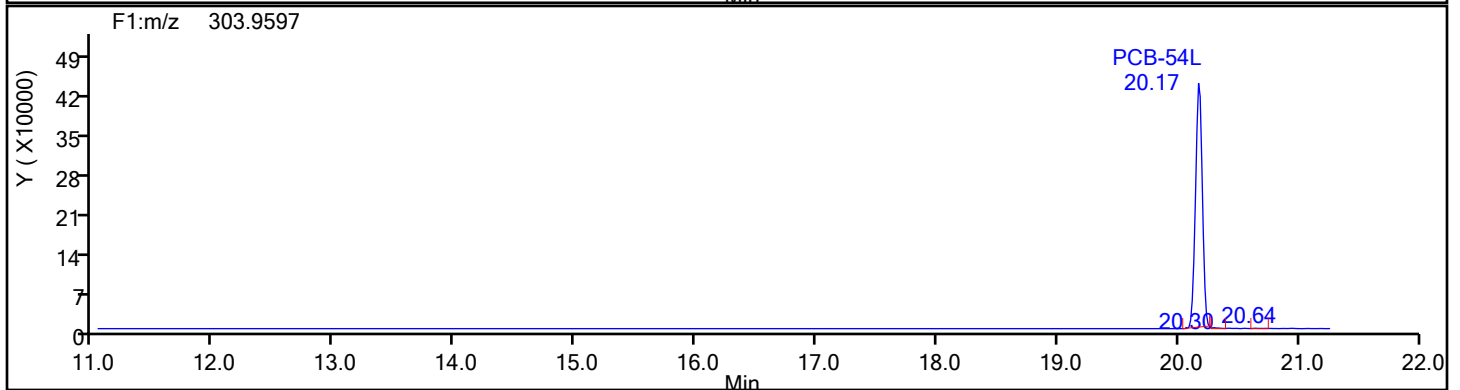
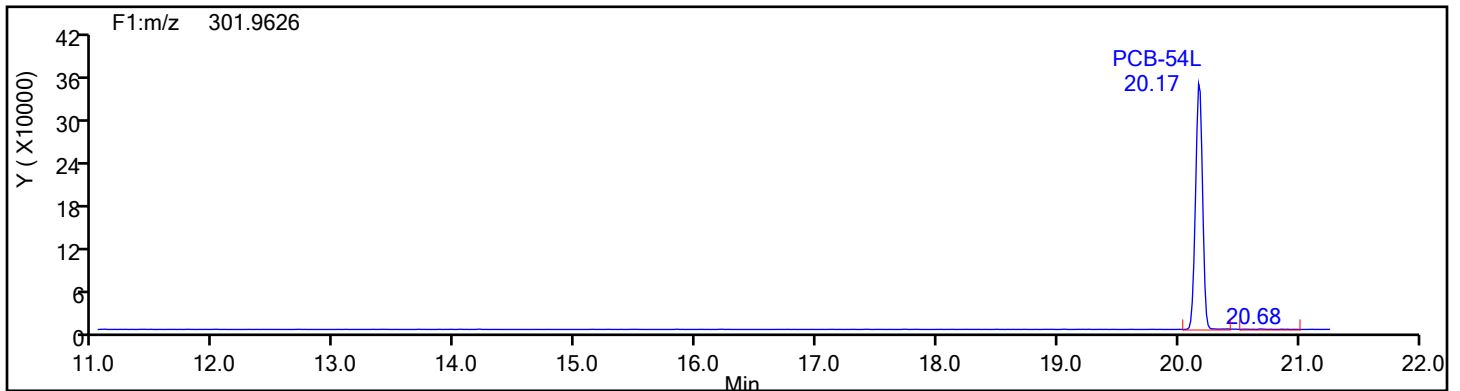
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

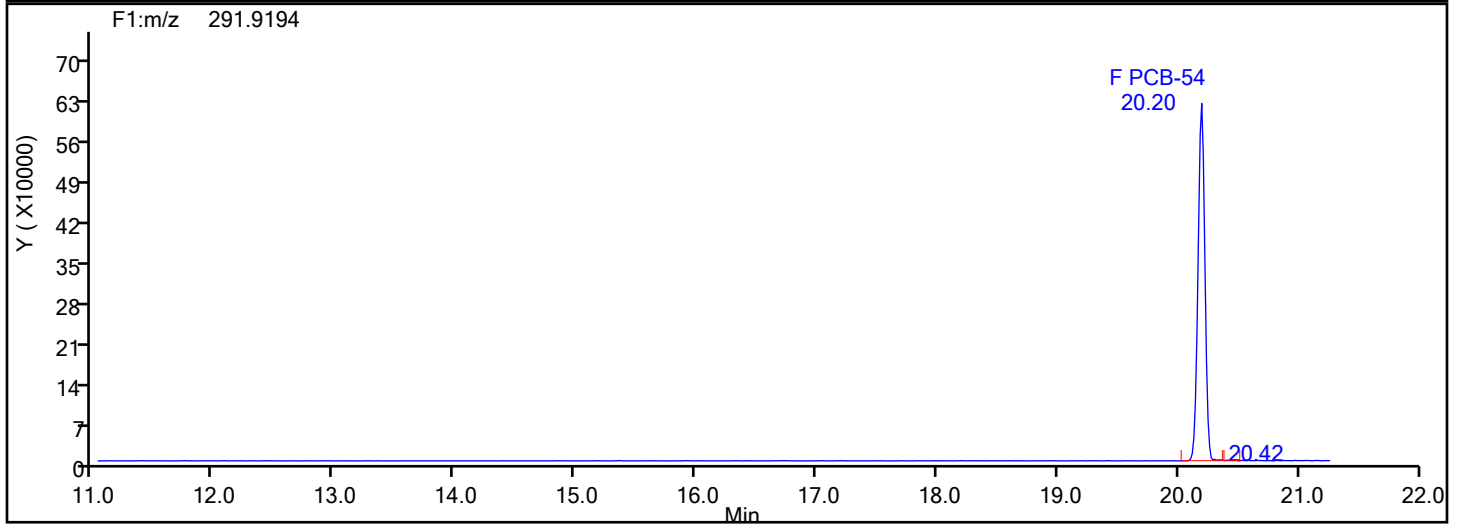
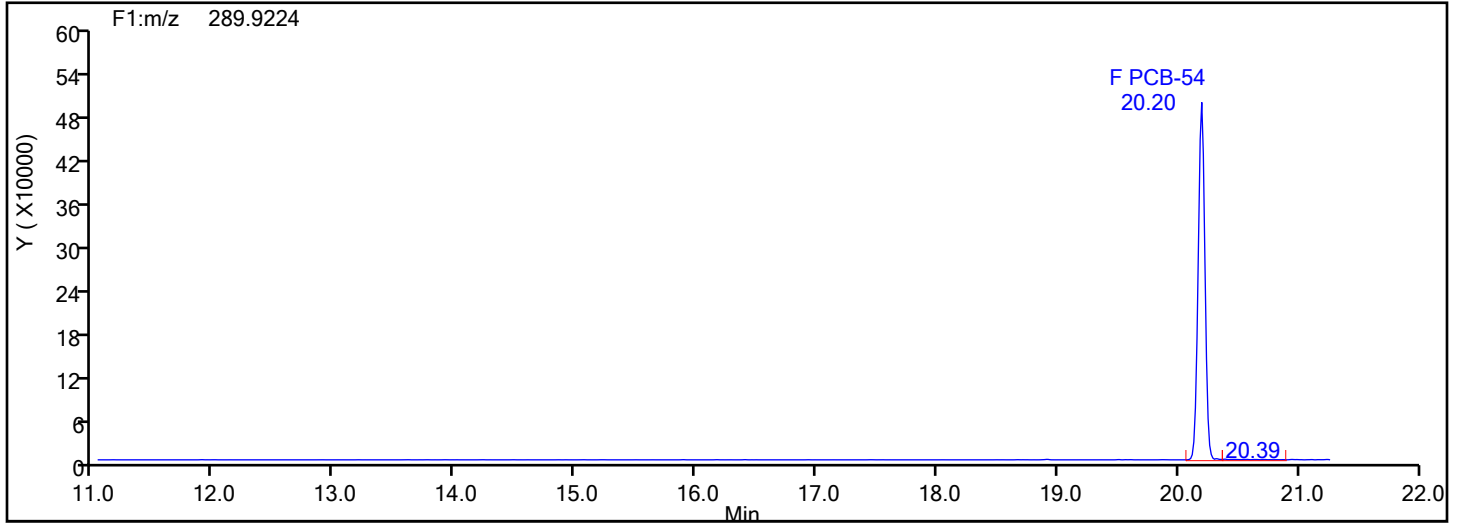
Worklist#: 87130

Sample Line#: 7

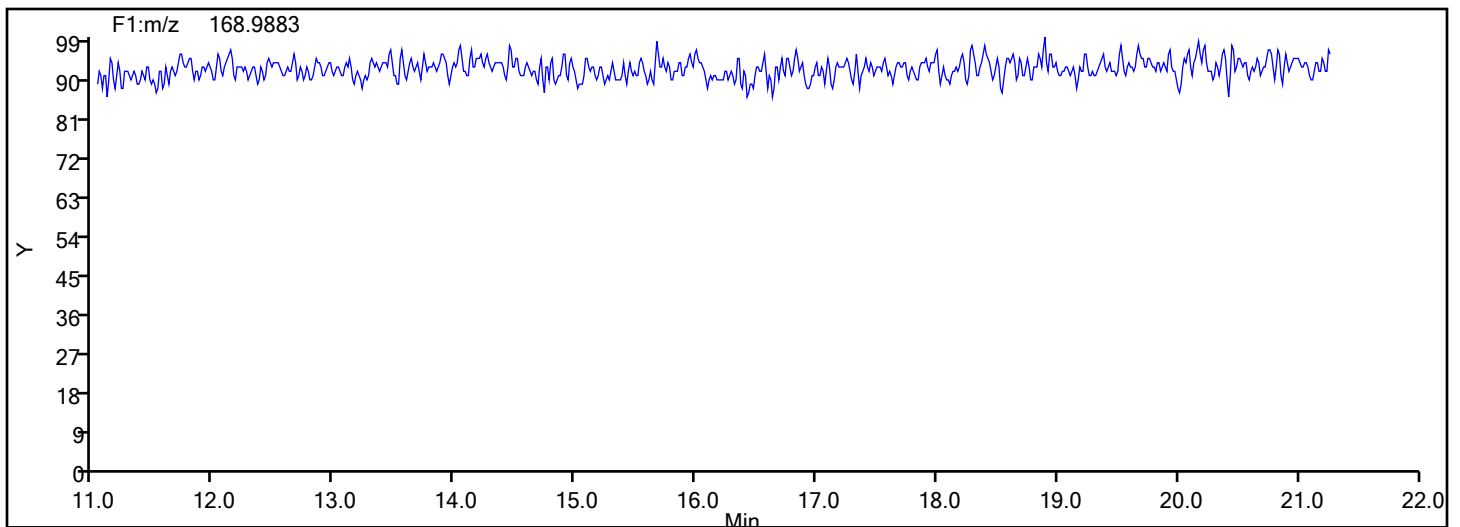
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

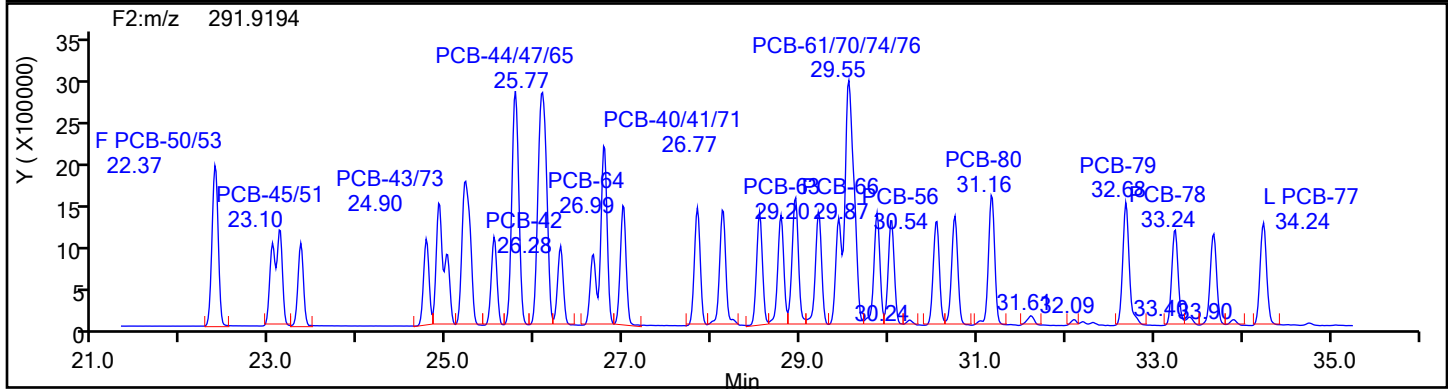
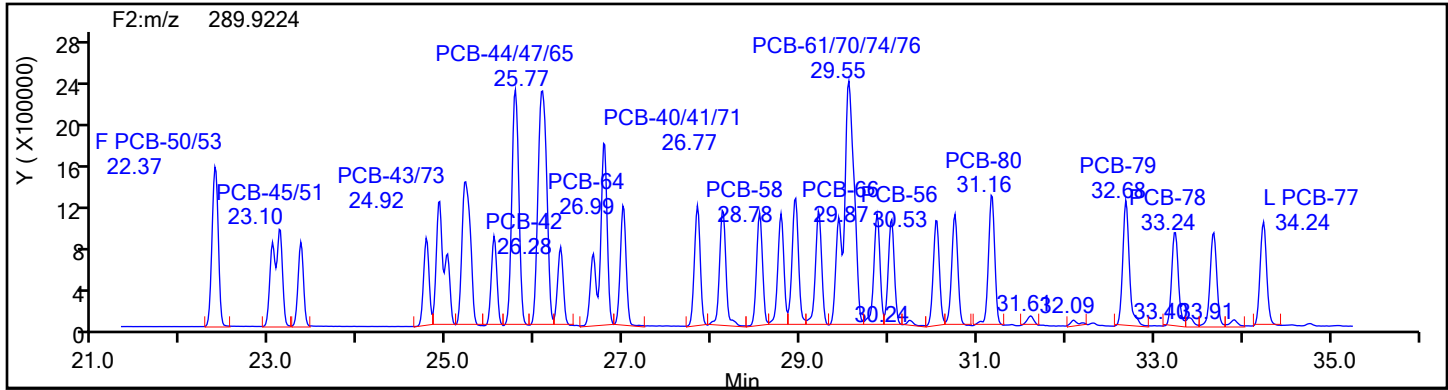
Worklist#: 87130

Sample Line#: 7

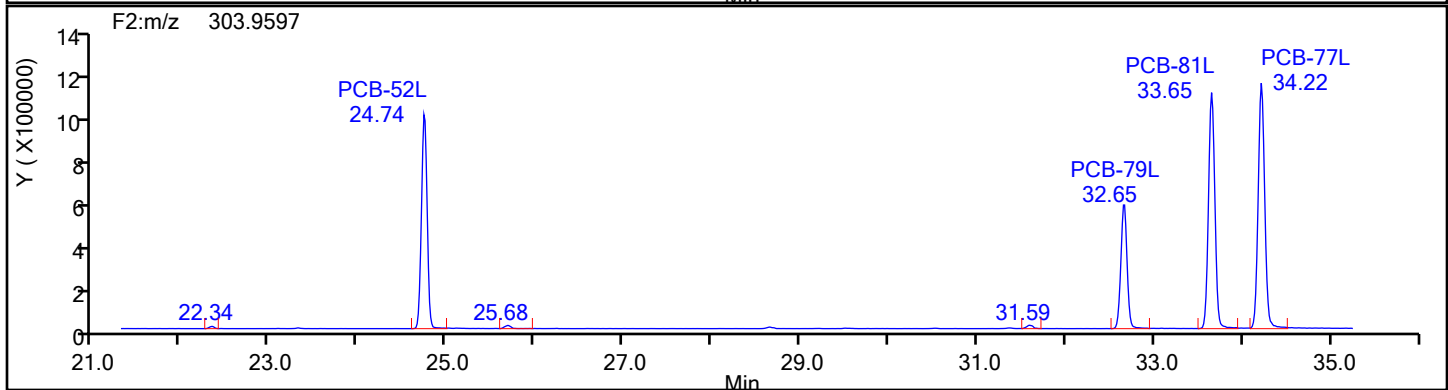
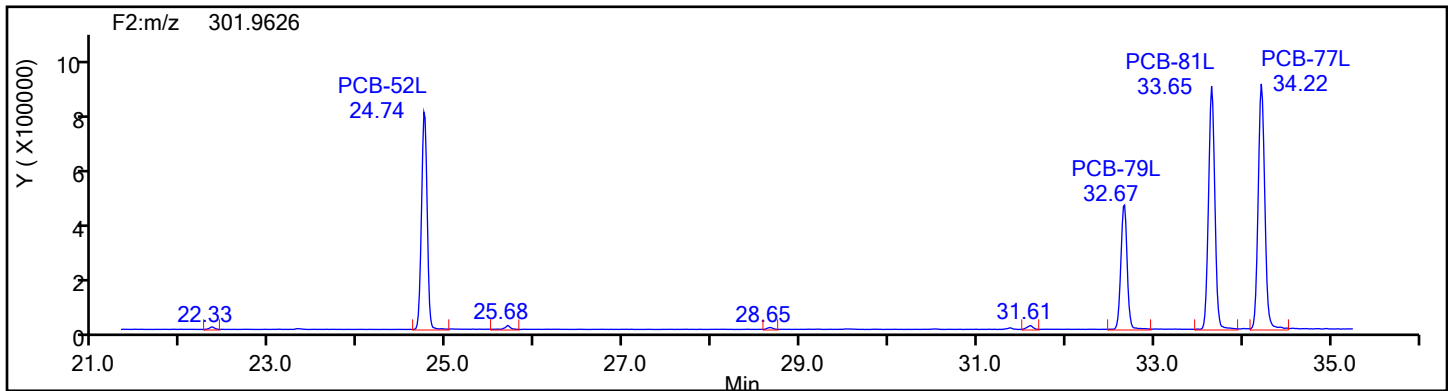
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

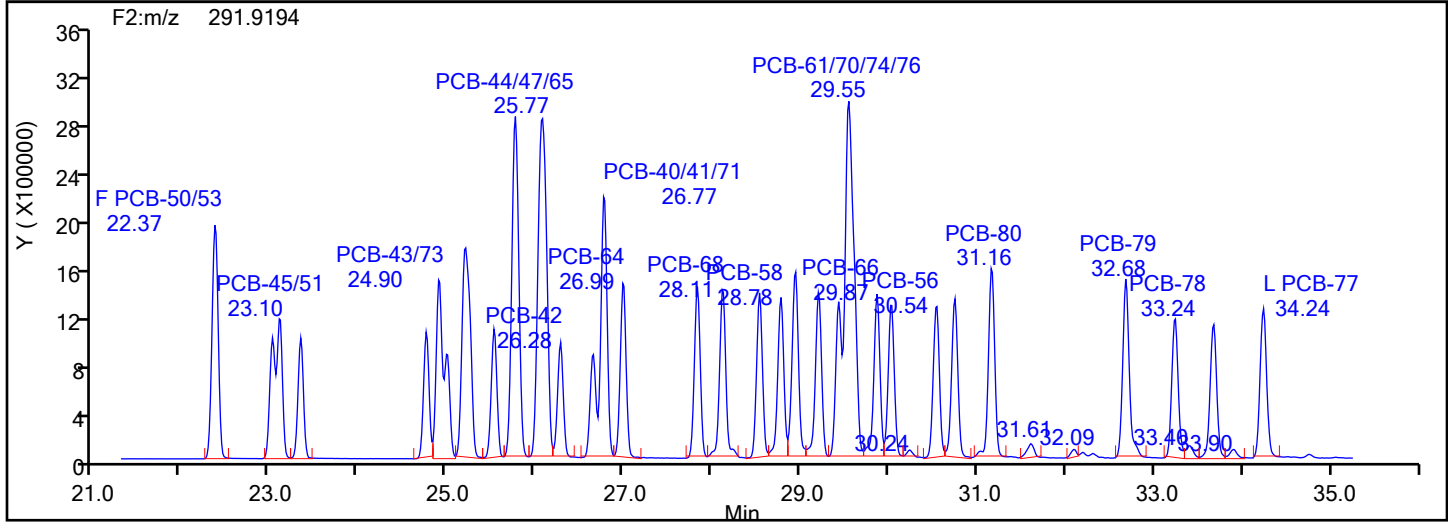
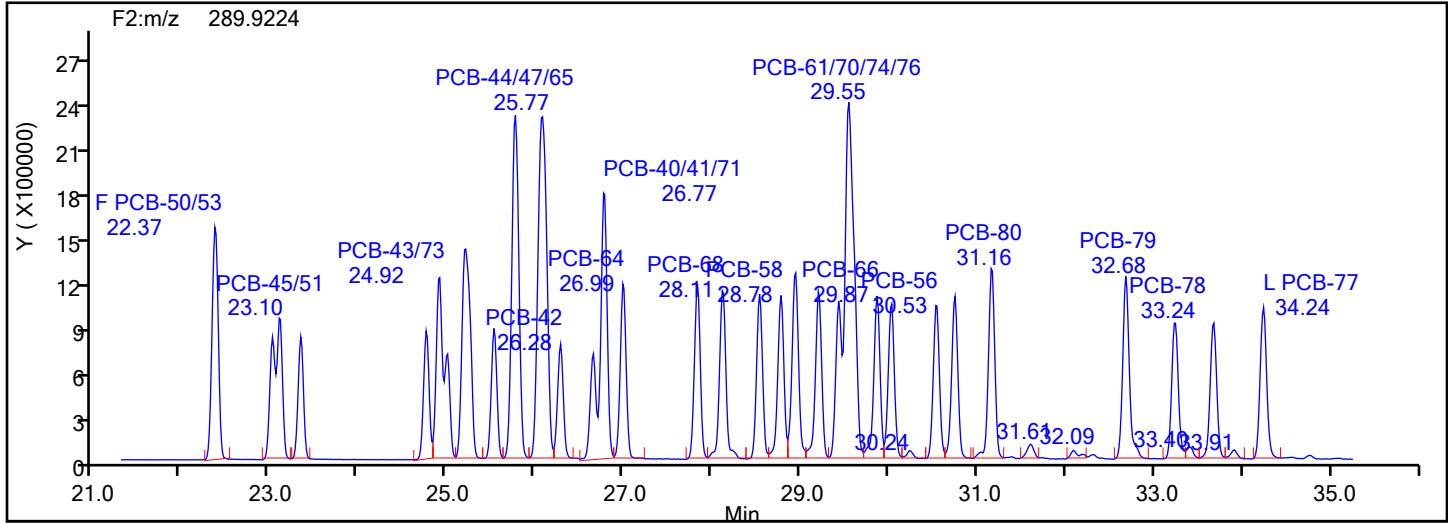
Worklist#: 87130

Sample Line#: 7

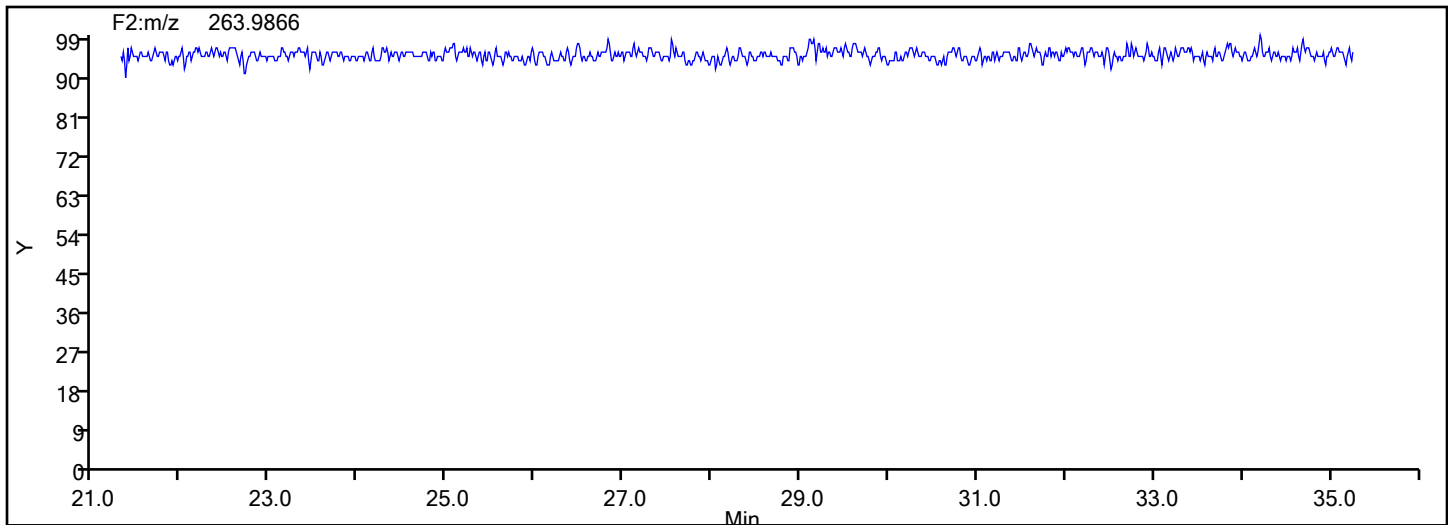
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

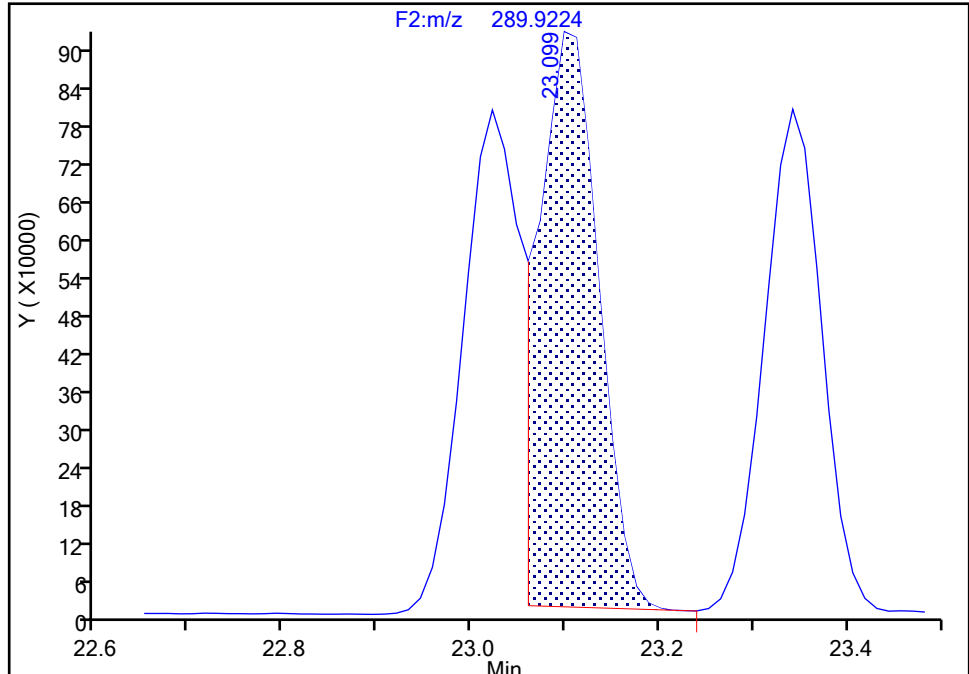
F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

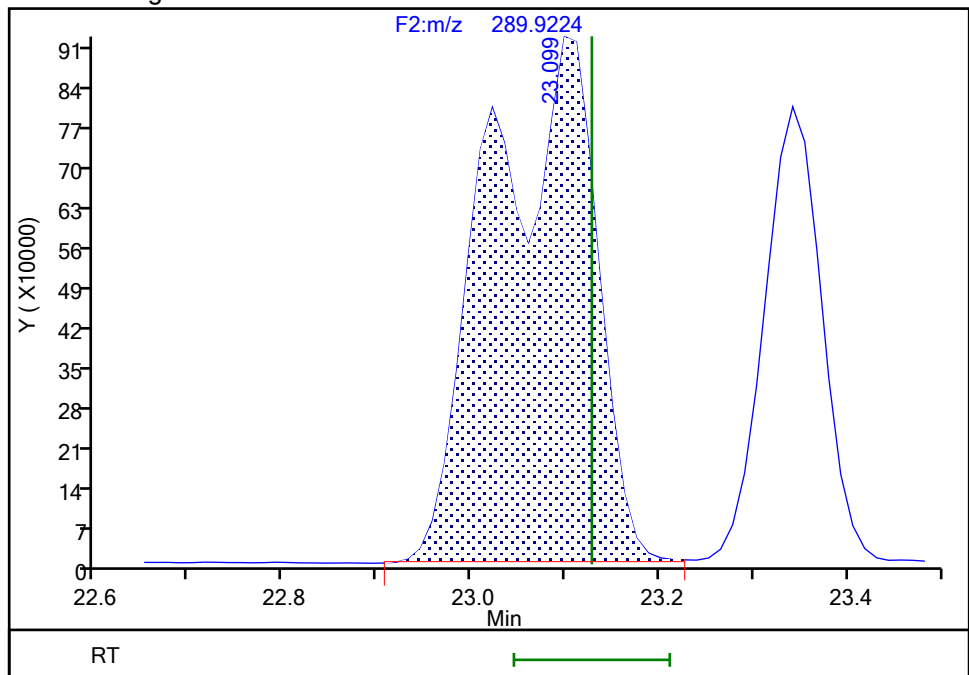
RT: 23.10
Area: 3944356
Amount: 108.0837
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 7266784
Amount: 199.5247
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

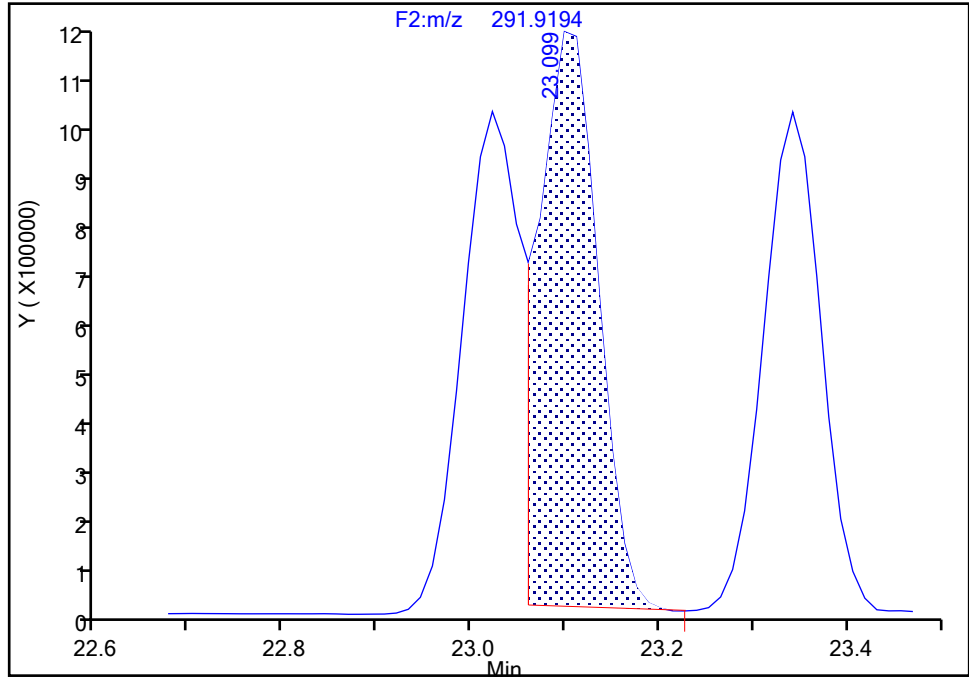
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

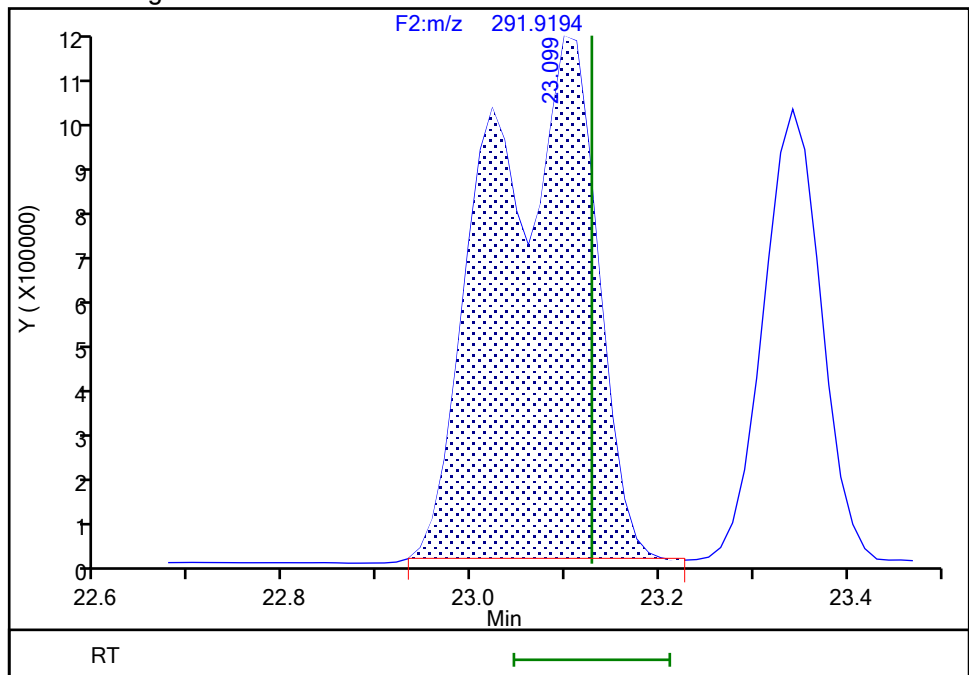
RT: 23.10
Area: 4947557
Amount: 108.0837
Amount Units: pg/ul

Processing Integration Results



RT: 23.10
Area: 9147858
Amount: 199.5247
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 2586 of 3050BASFWC-McIntosh-010587
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

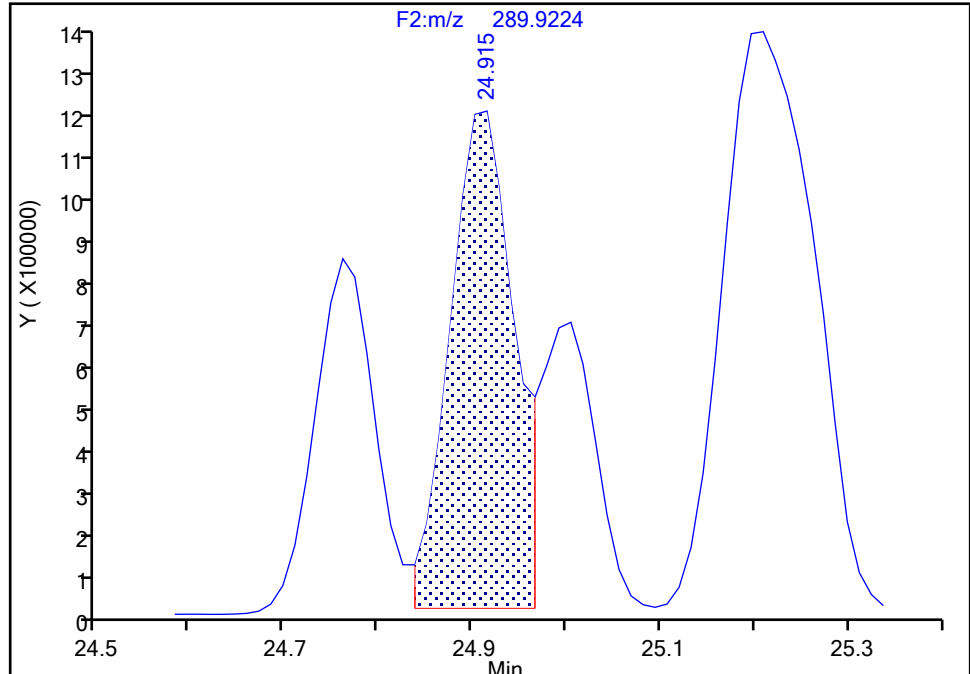
Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

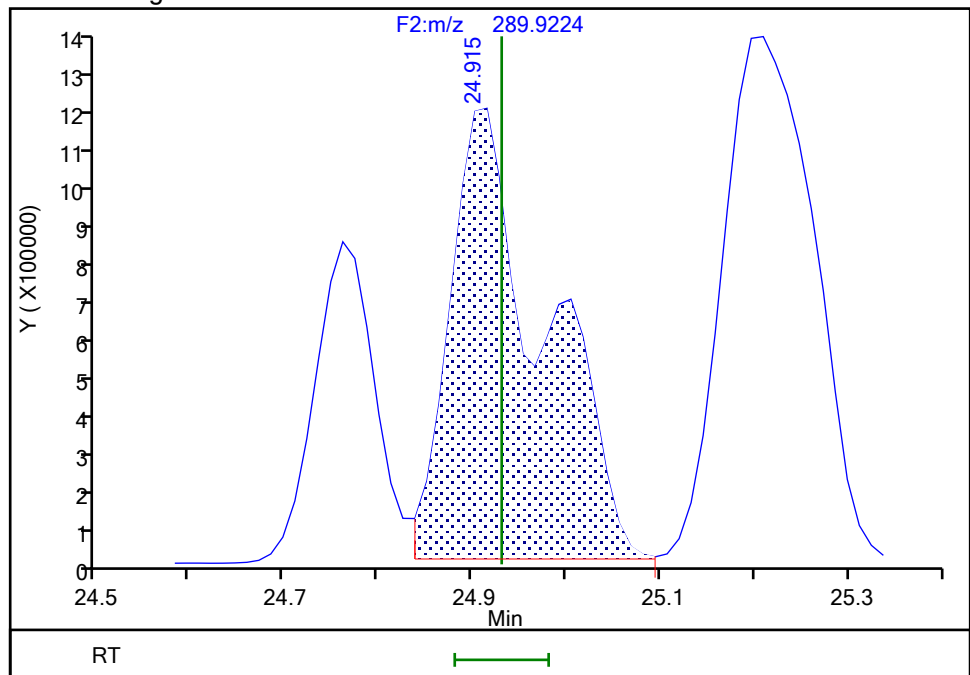
RT: 24.92
Area: 5521608
Amount: 120.8756
Amount Units: pg/ul

Processing Integration Results



RT: 24.92
Area: 8232470
Amount: 181.3642
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

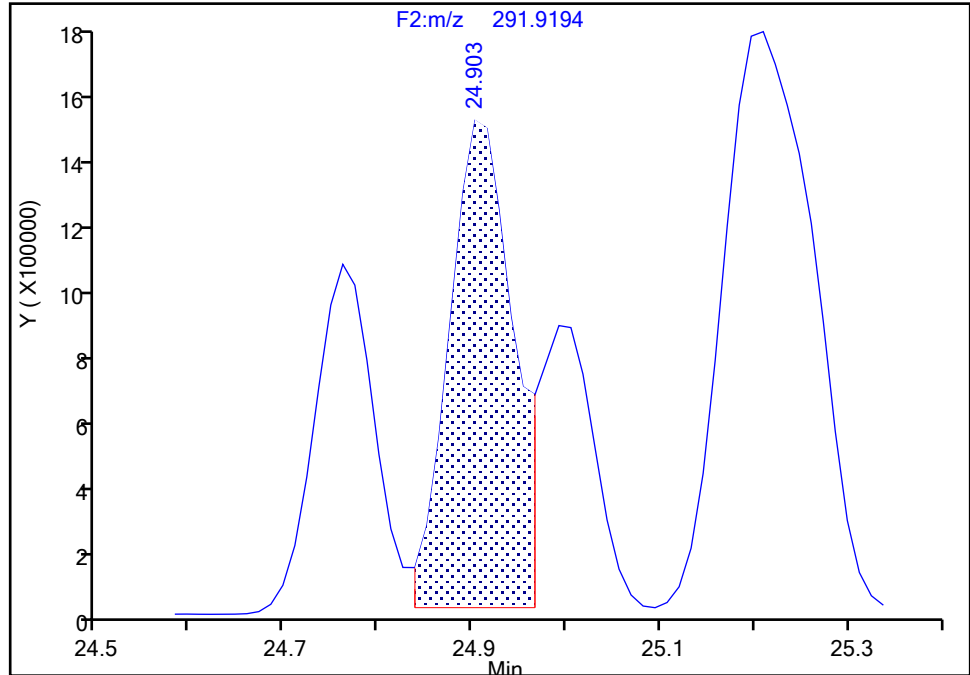
F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

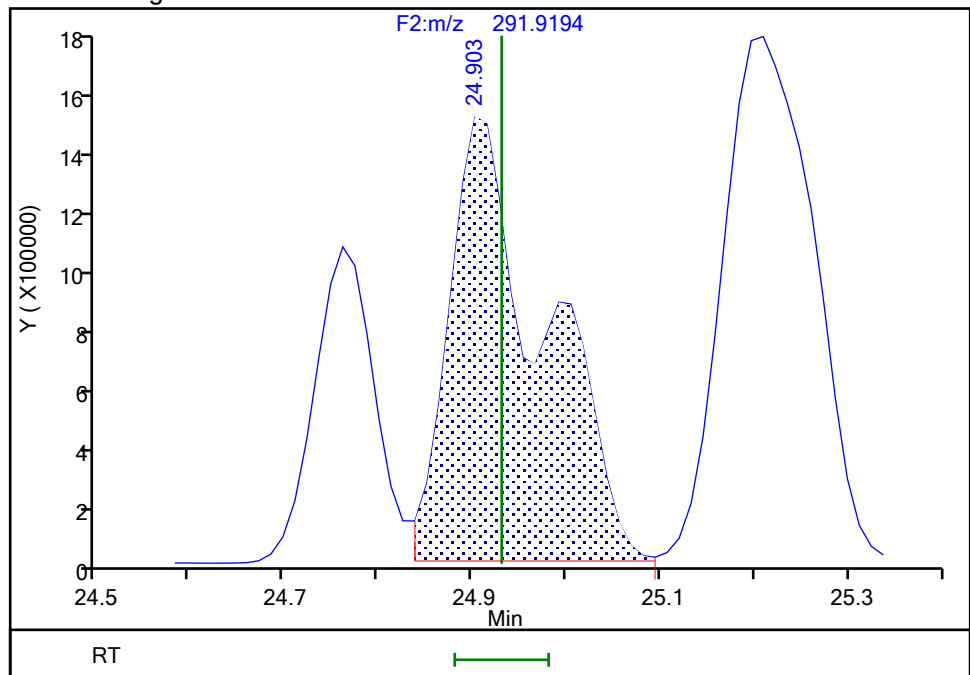
RT: 24.90
Area: 6912452
Amount: 120.8756
Amount Units: pg/ul

Processing Integration Results



RT: 24.90
Area: 10423848
Amount: 181.3642
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2588 of 3050

BASFWHC-McIntosh-010589

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

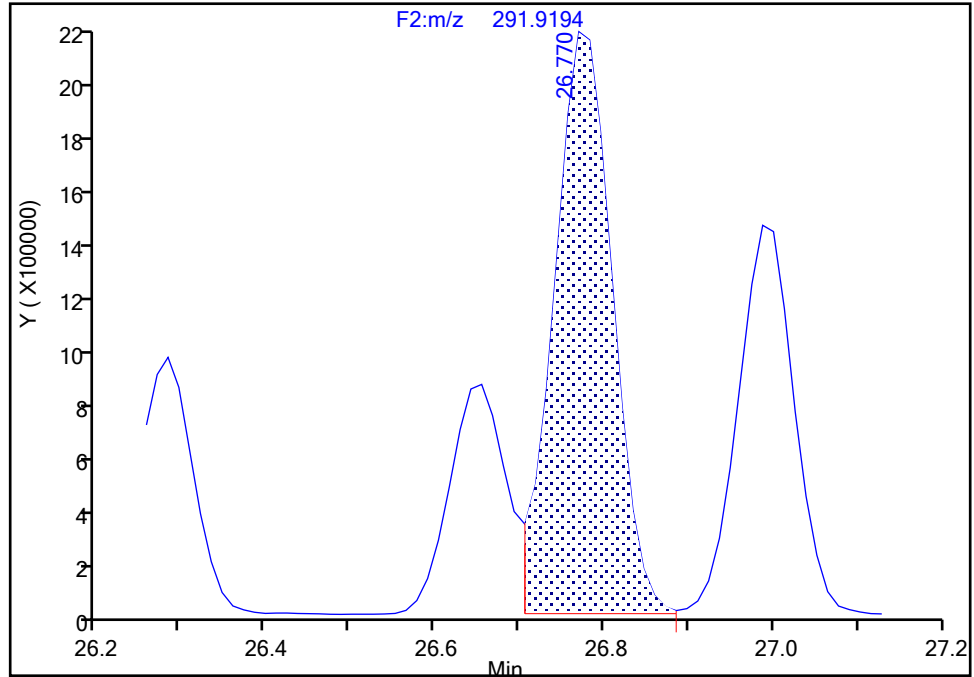
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

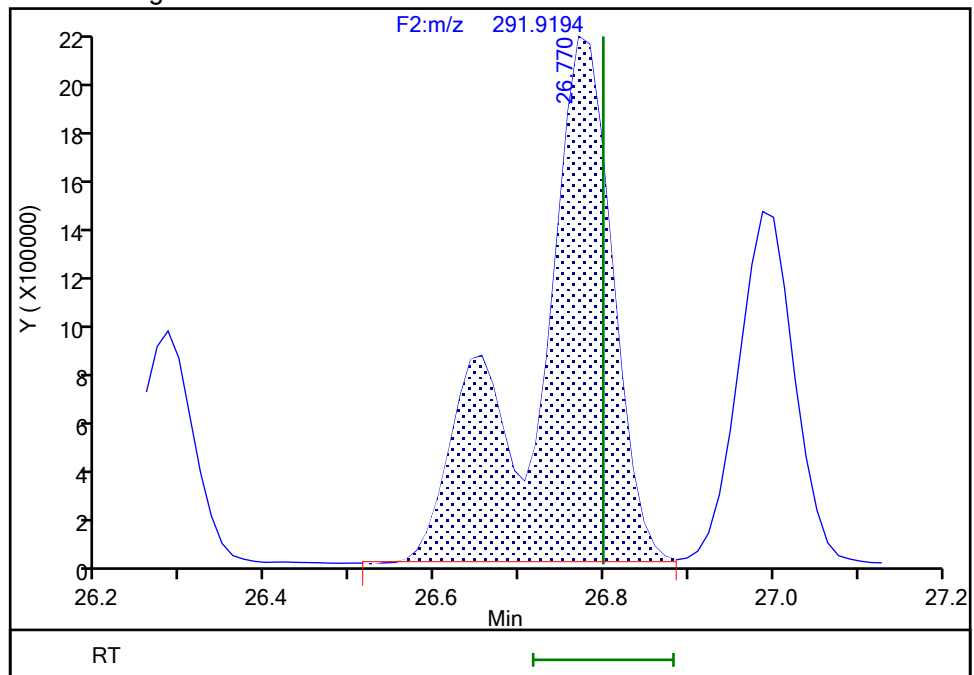
RT: 26.77
Area: 10371796
Amount: 211.0123
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 14336238
Amount: 292.3129
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

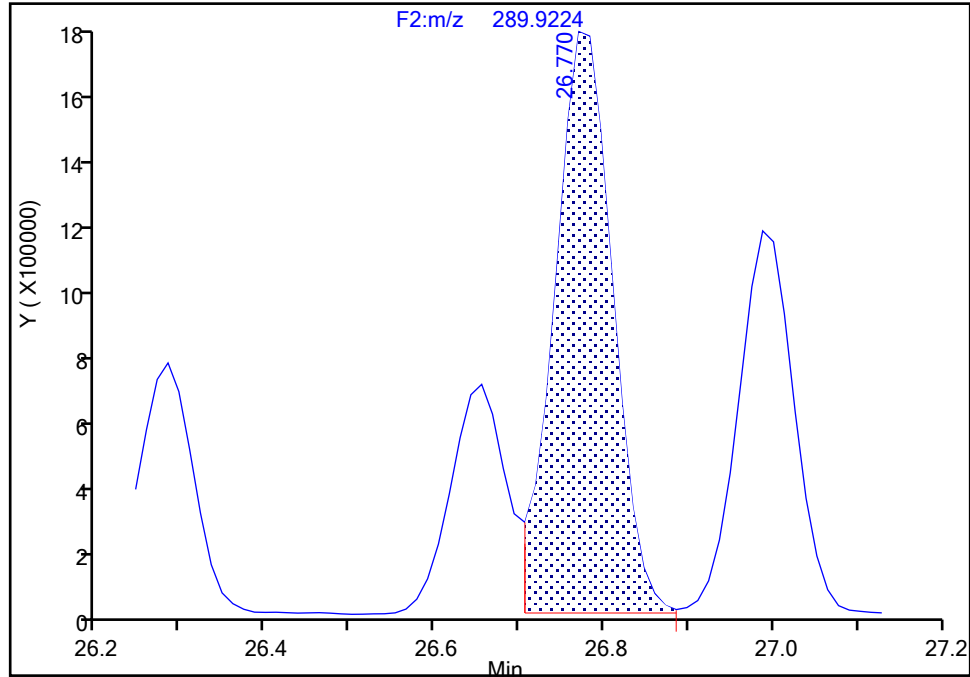
Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

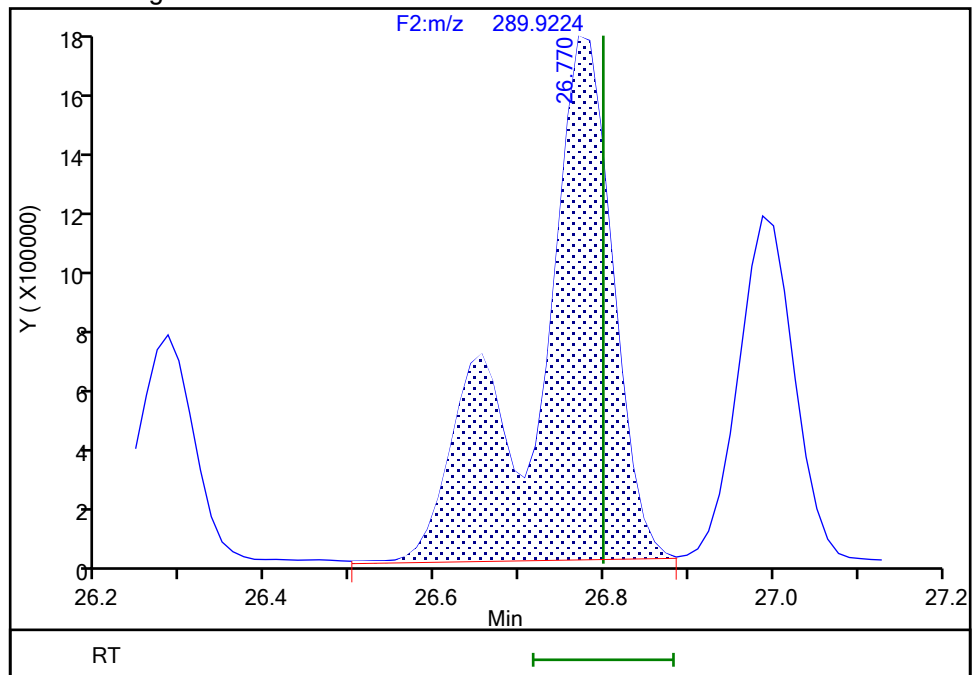
RT: 26.77
Area: 8246305
Amount: 211.0123
Amount Units: pg/ul

Processing Integration Results



RT: 26.77
Area: 11455207
Amount: 292.3129
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2590 of 3050

BASFWC-McIntosh-010591

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

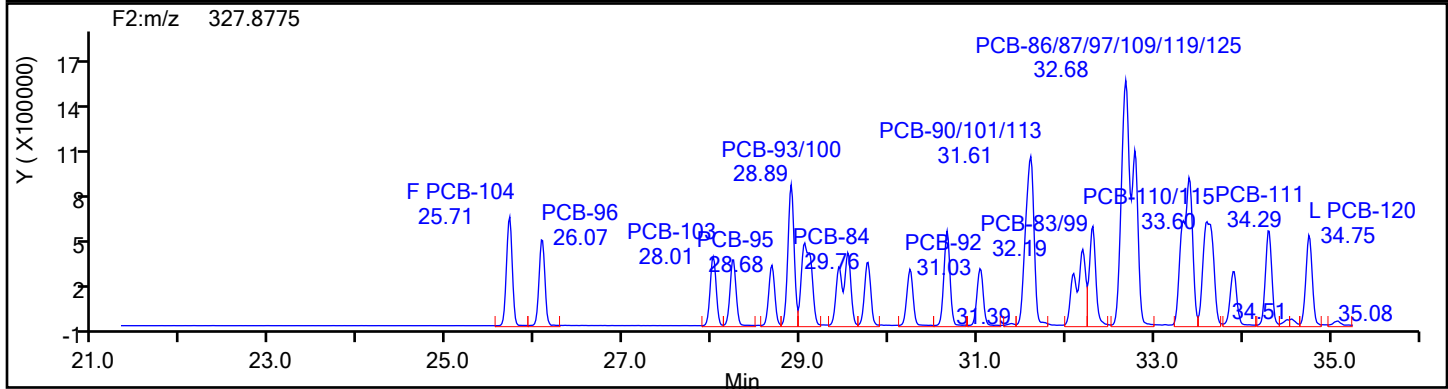
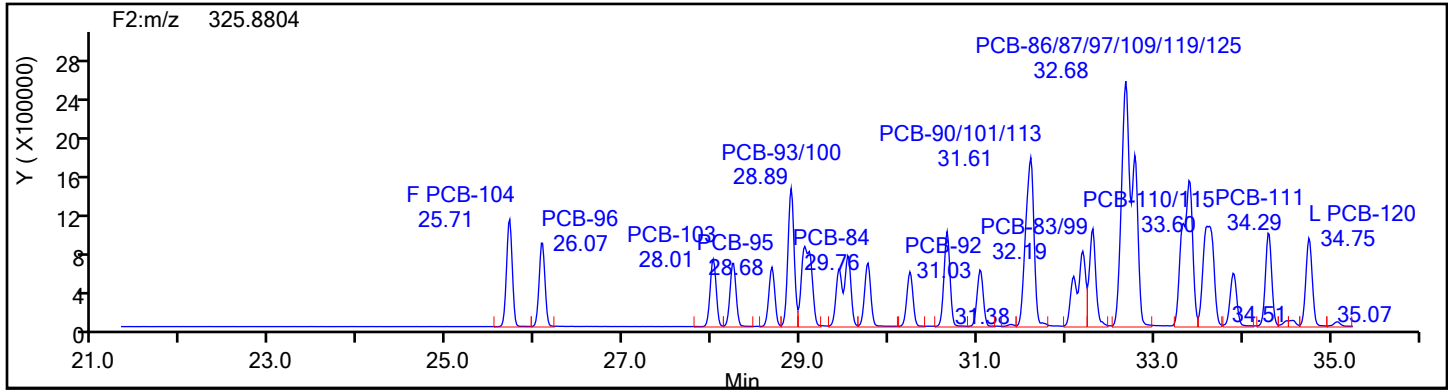
Worklist#: 87130

Sample Line#: 7

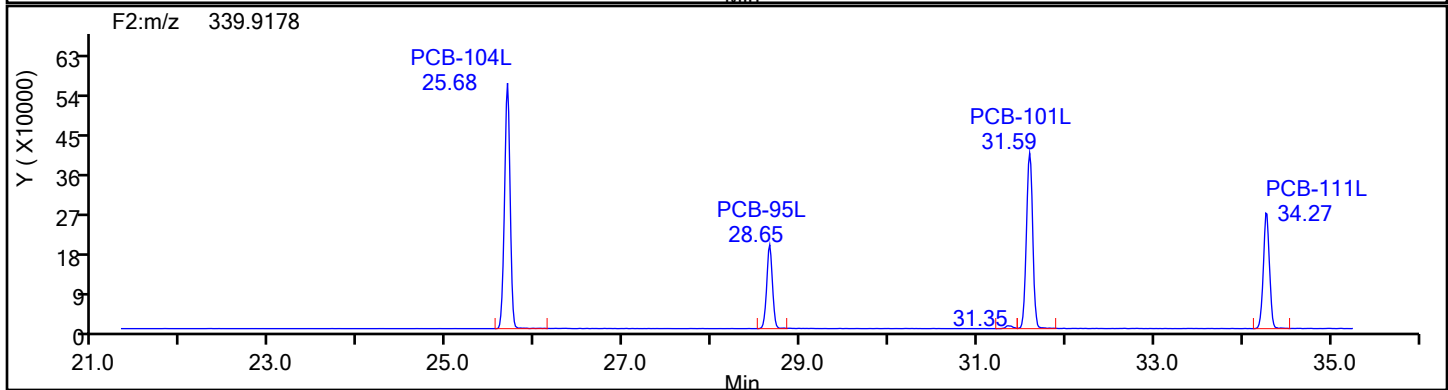
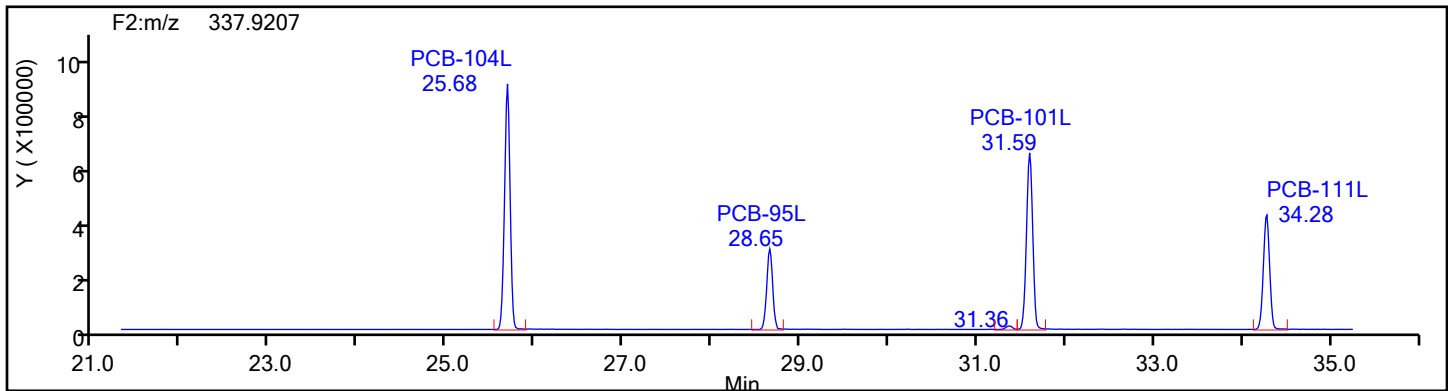
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

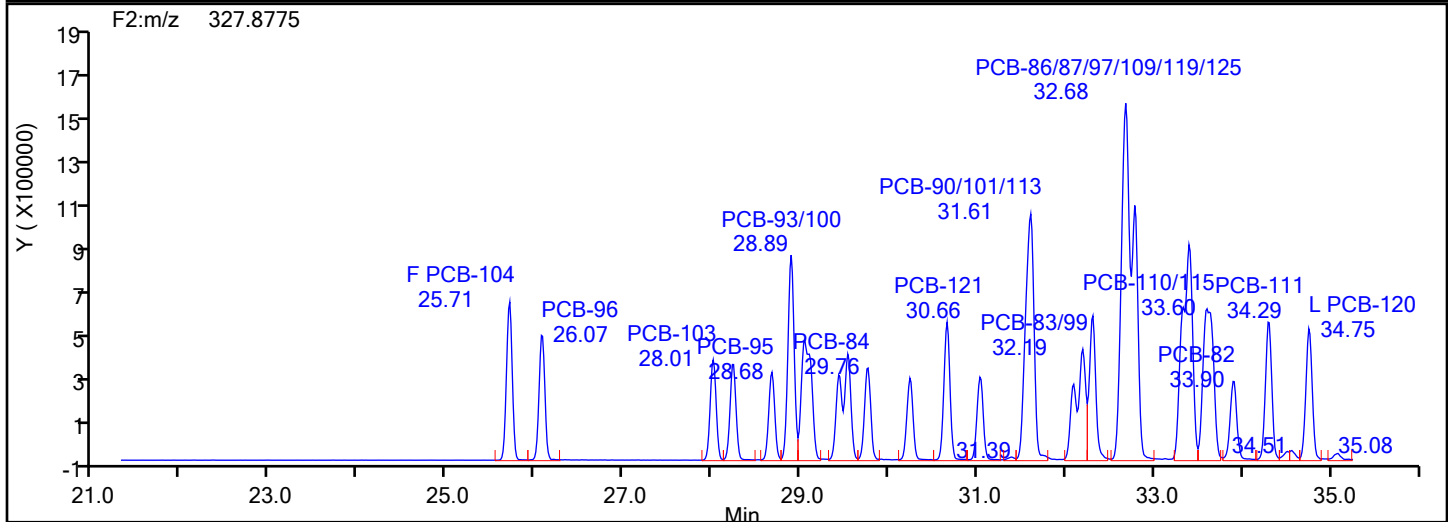
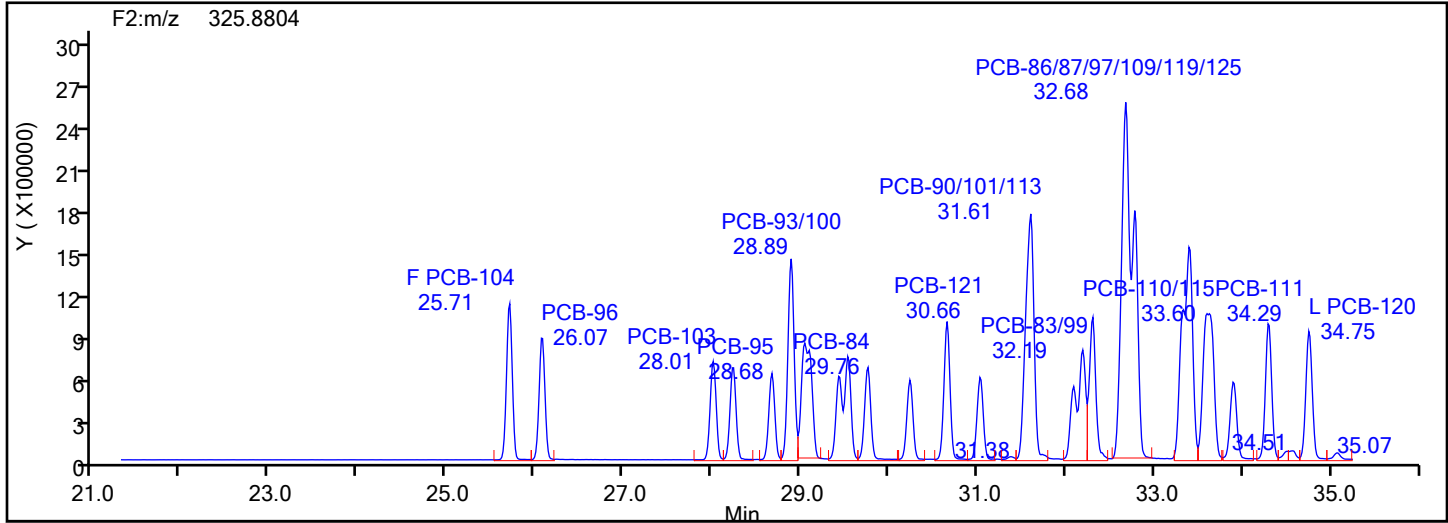


PePCB F2 Standards

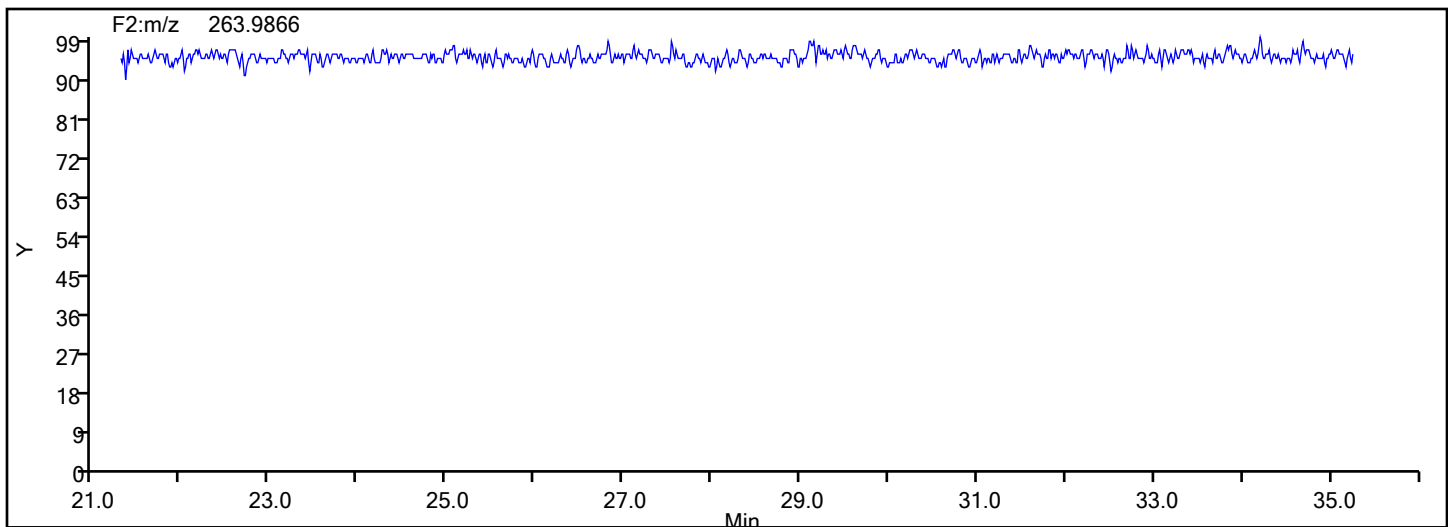


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

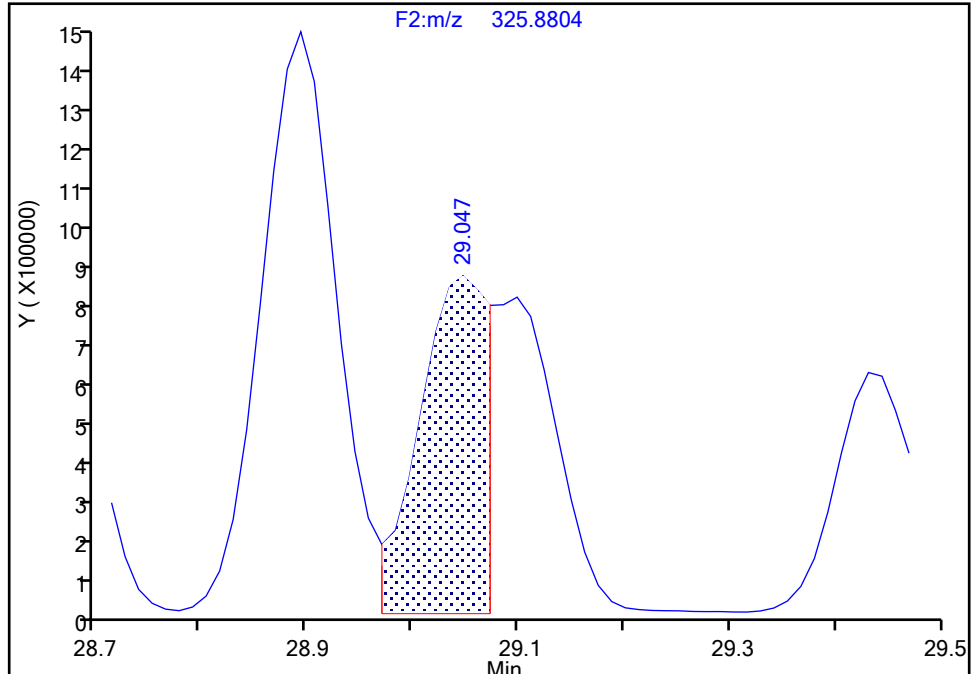
Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

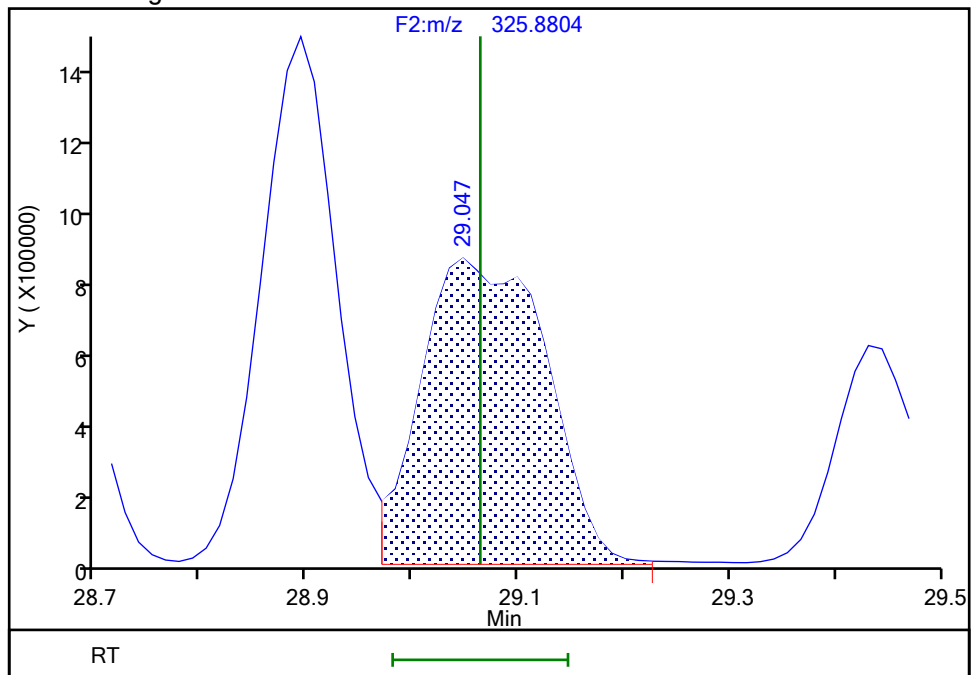
RT: 29.05
Area: 3518179
Amount: 143.9766
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 6677250
Amount: 206.3385
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

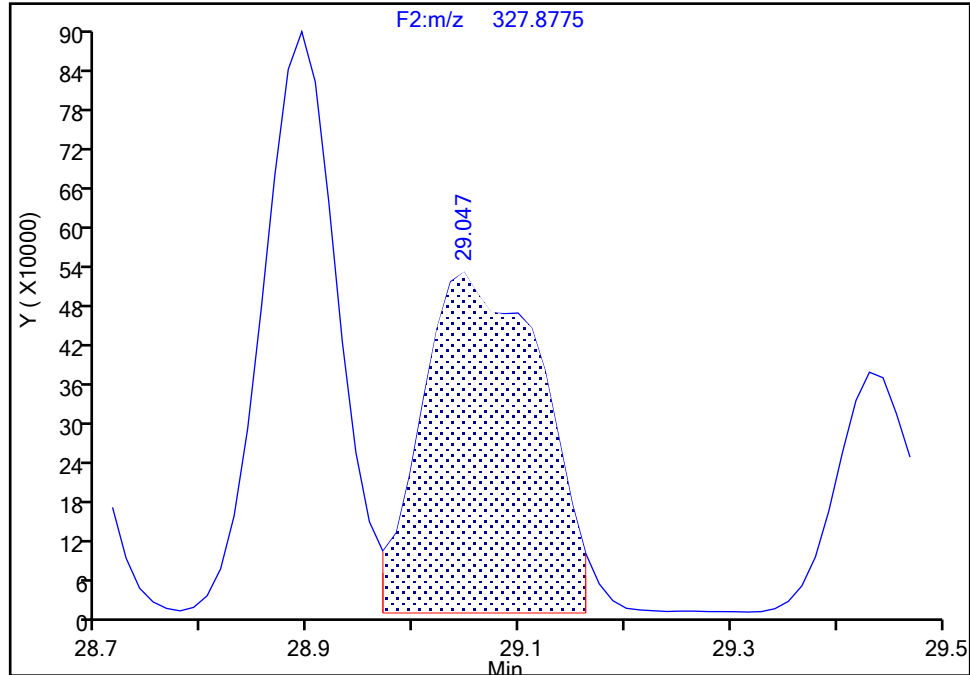
F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 2

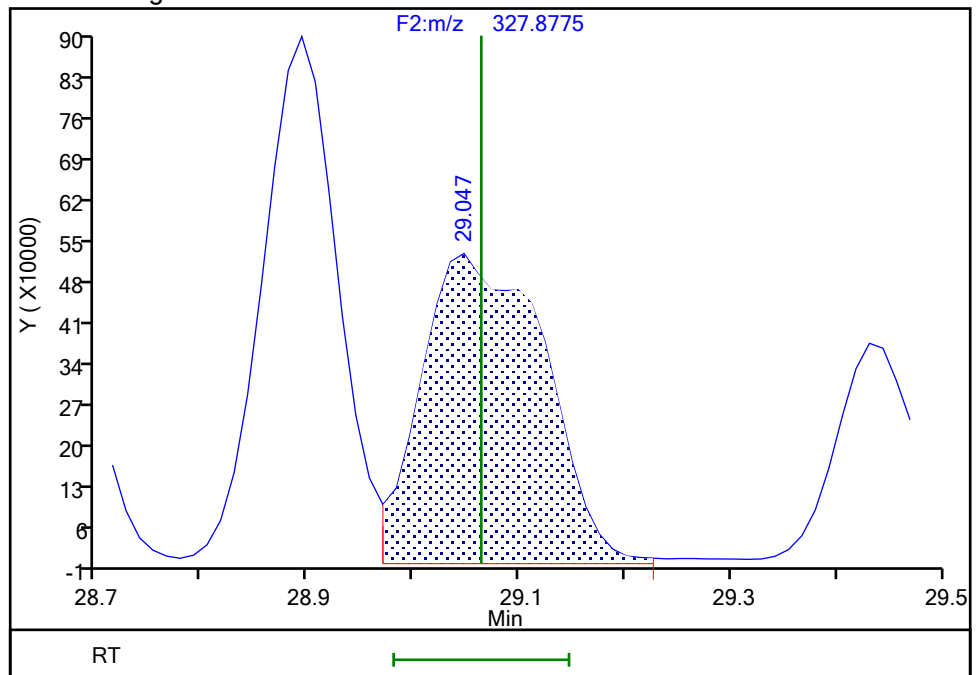
RT: 29.05
Area: 4119534
Amount: 143.9766
Amount Units: pg/ul

Processing Integration Results



RT: 29.05
Area: 4268659
Amount: 206.3385
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2594 of 3050

BASFWC-McIntosh-010595

9/6/2024

4:11:20 PM

Eurofins Knoxville

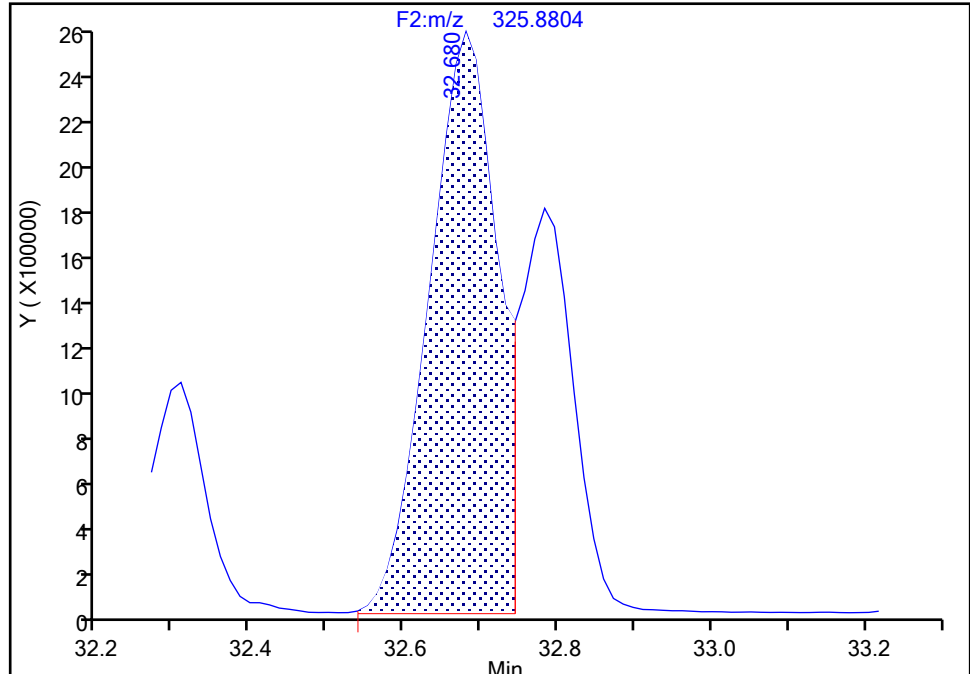
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

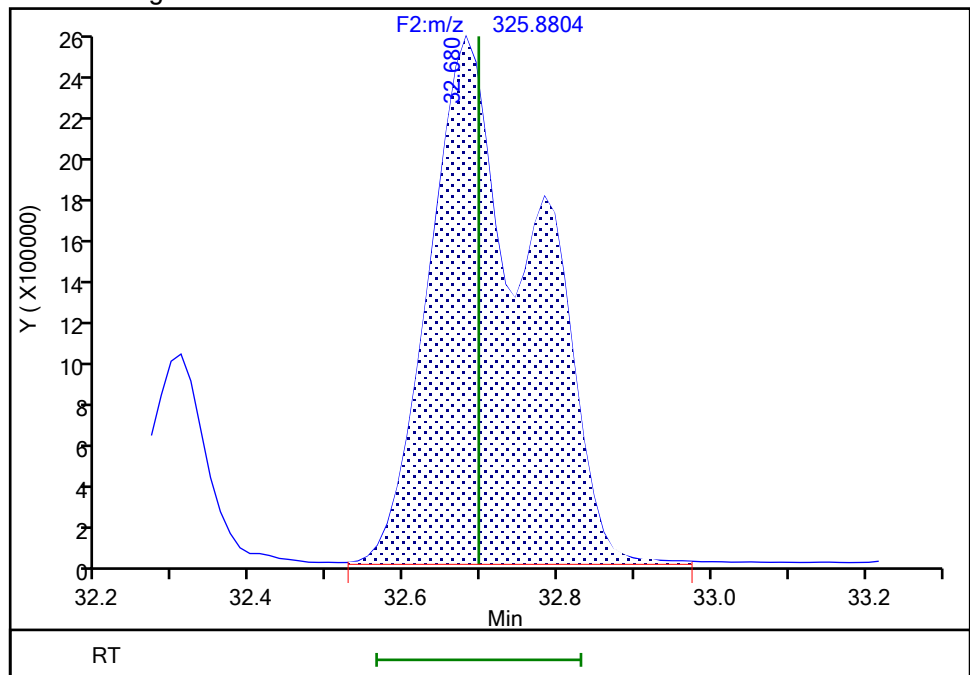
RT: 32.68
Area: 15425847
Amount: 374.4641
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 23519251
Amount: 573.6652
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

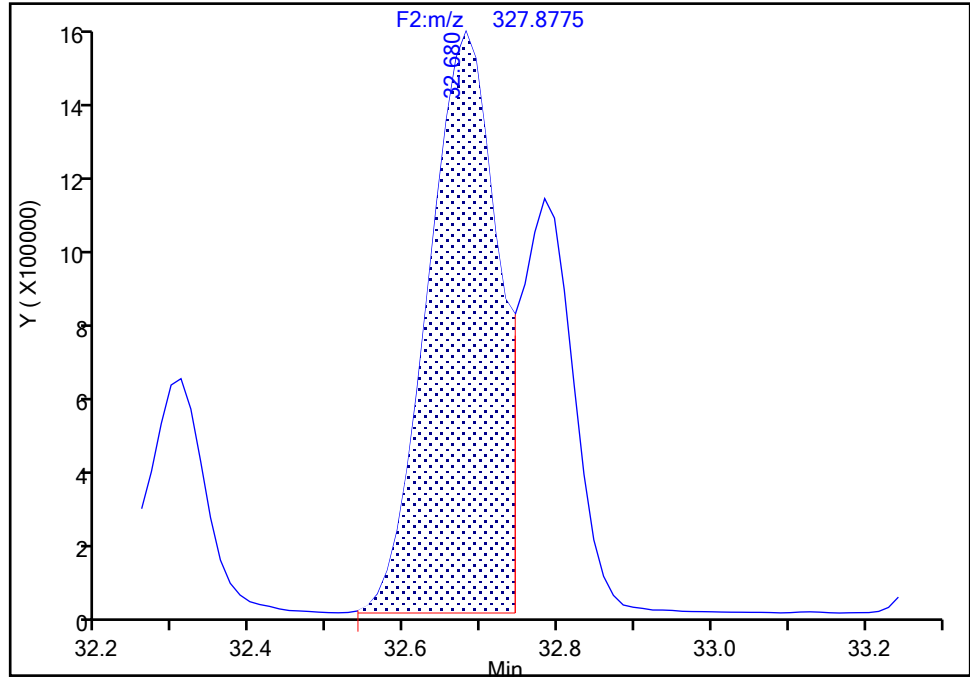
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D
Lims ID: ICV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

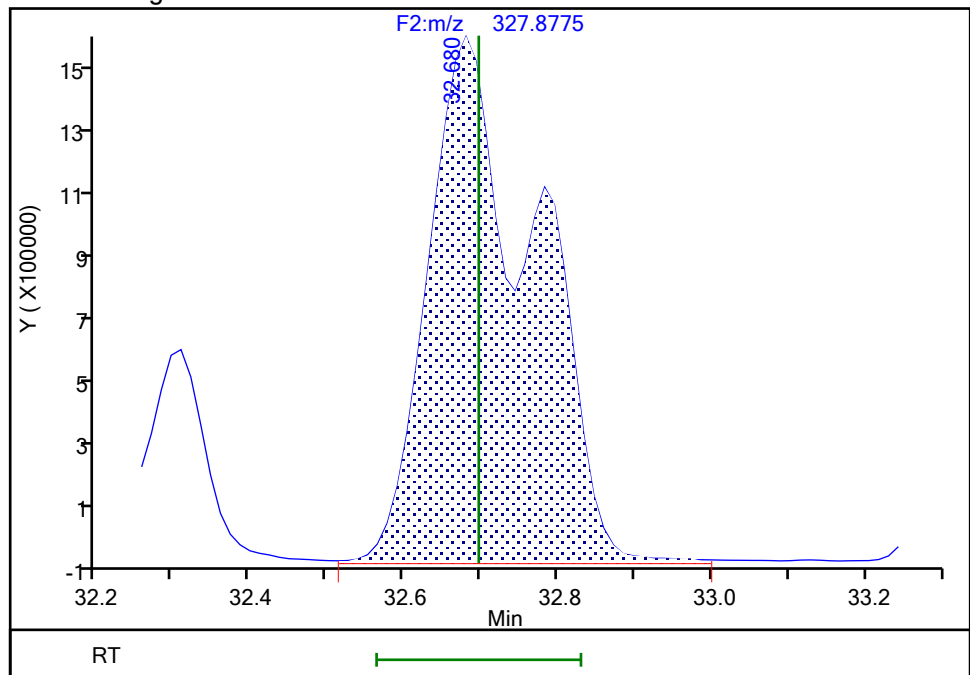
RT: 32.68
Area: 9755487
Amount: 374.4641
Amount Units: pg/ul

Processing Integration Results



RT: 32.68
Area: 15057631
Amount: 573.6652
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2596 of 3050

BASFWC-McIntosh-010597

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

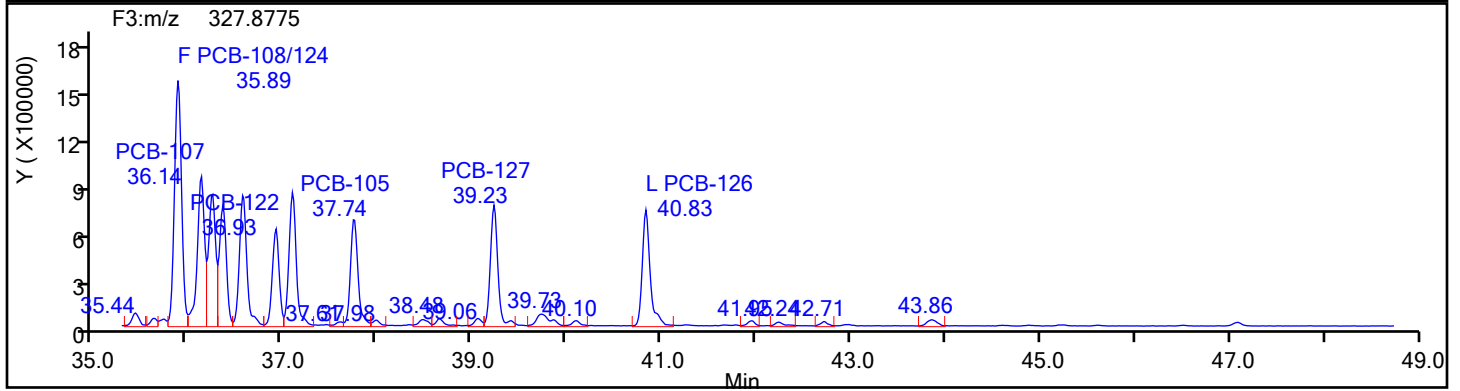
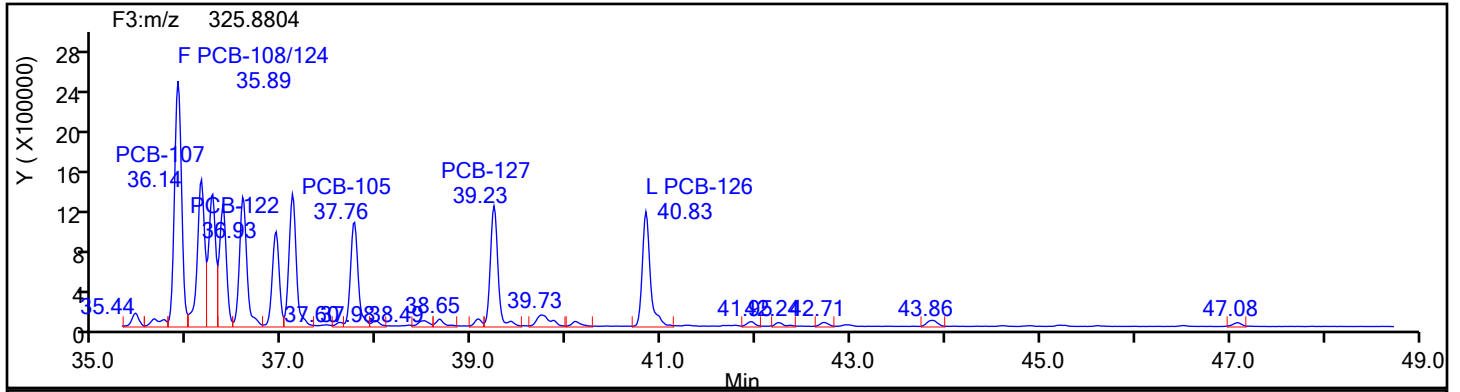
Worklist#: 87130

Sample Line#: 7

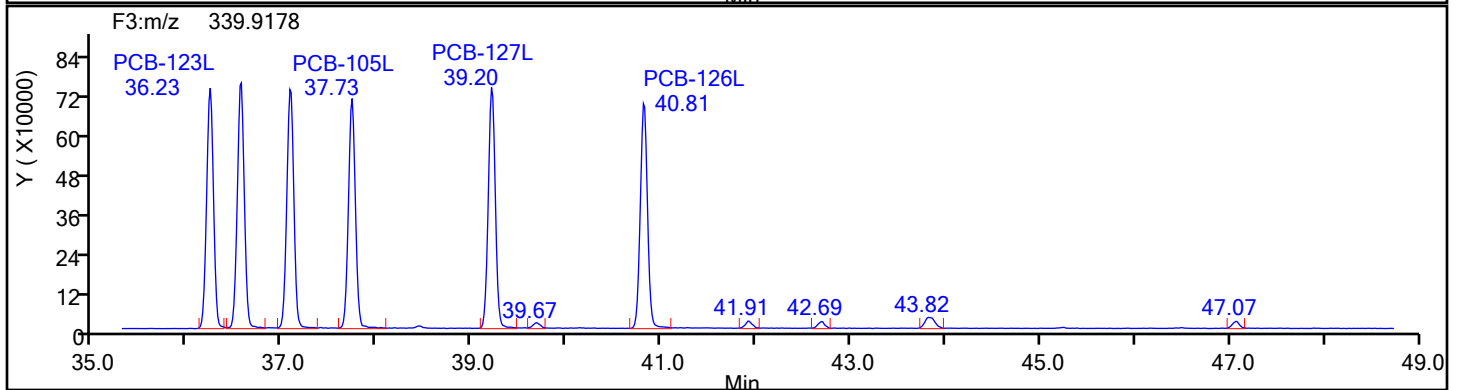
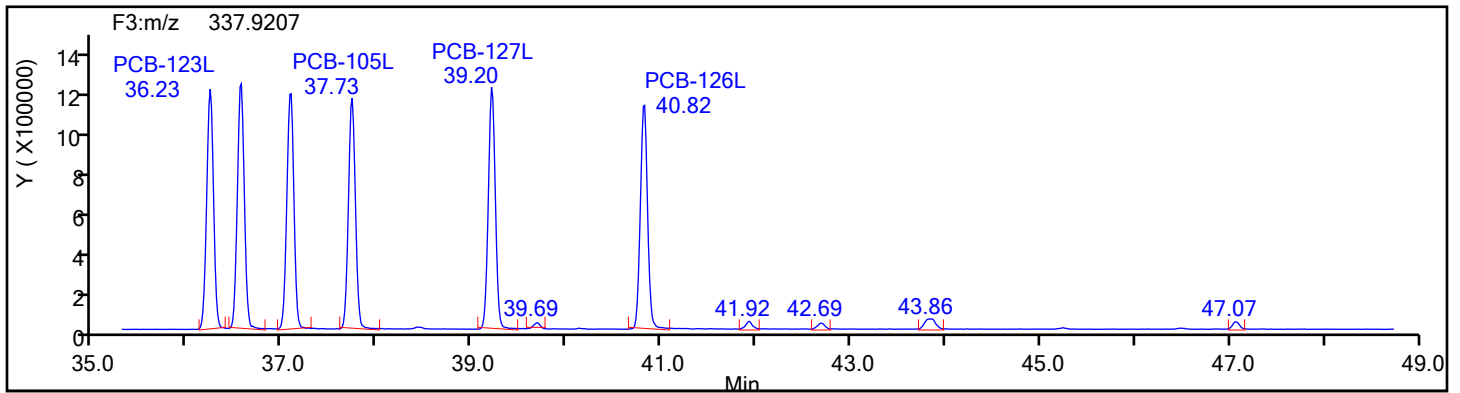
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

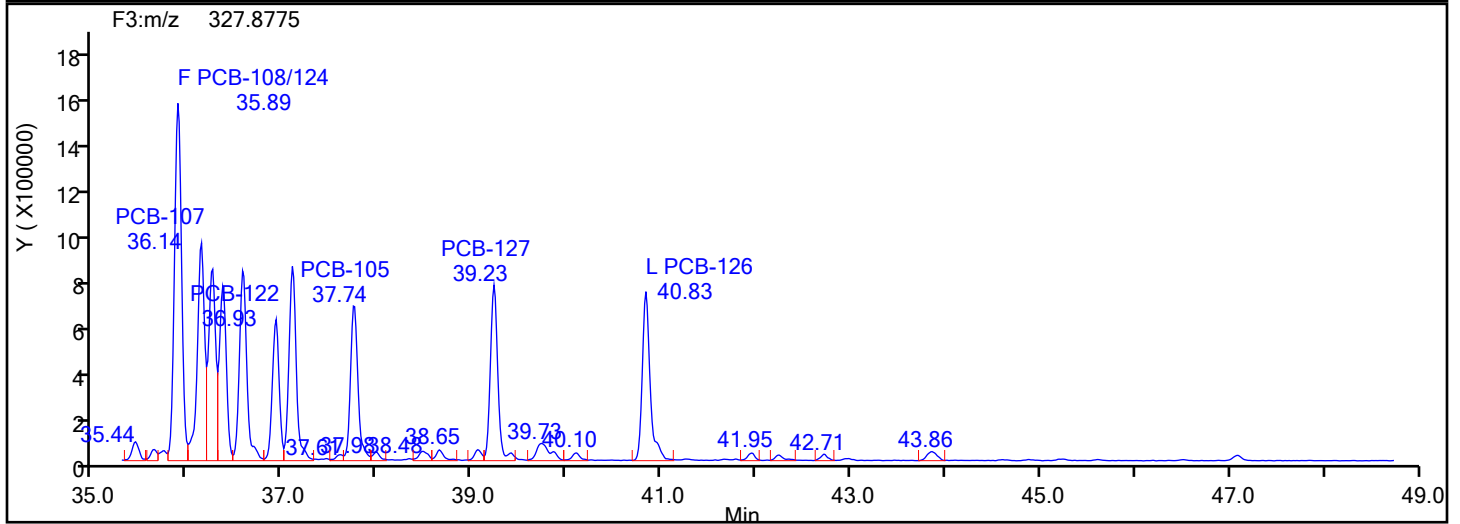
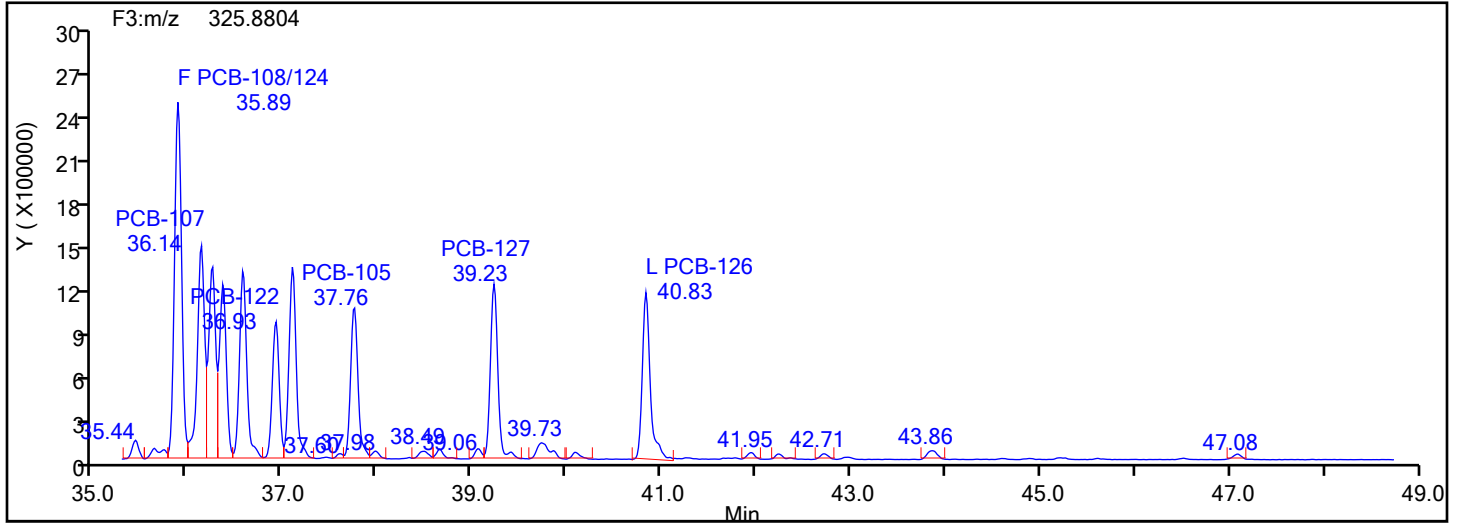
Worklist#: 87130

Sample Line#: 7

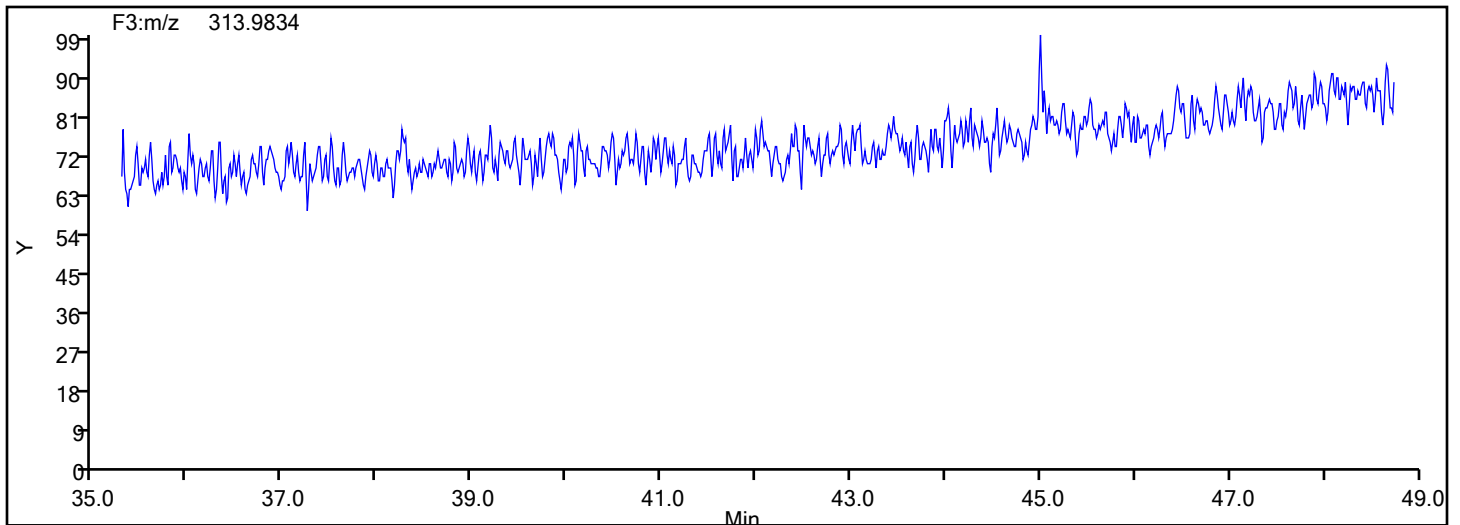
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

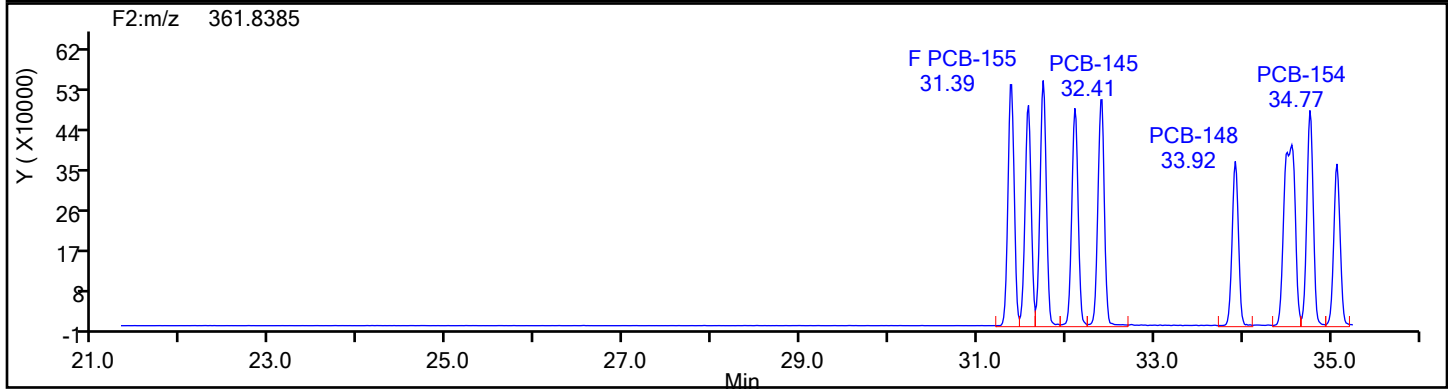
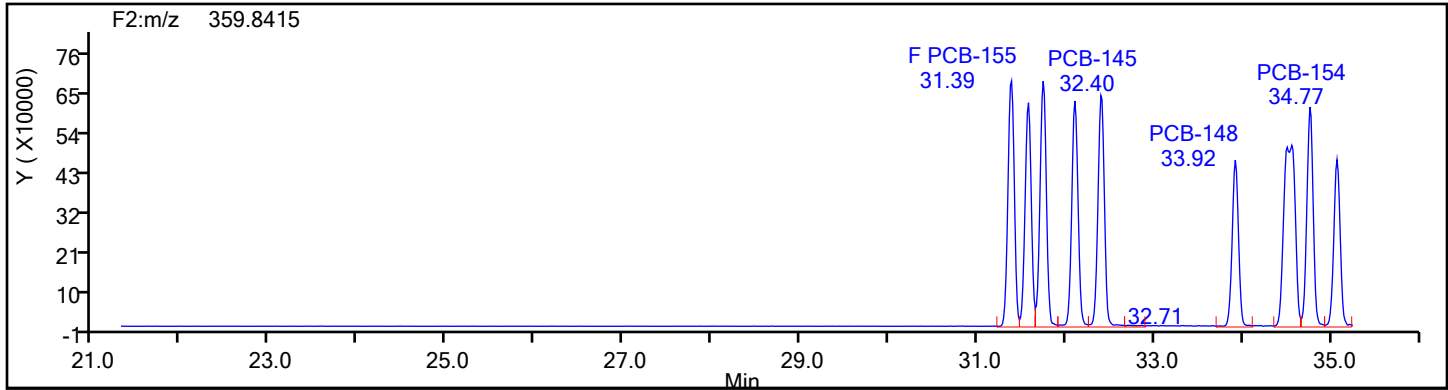
Worklist#: 87130

Sample Line#: 7

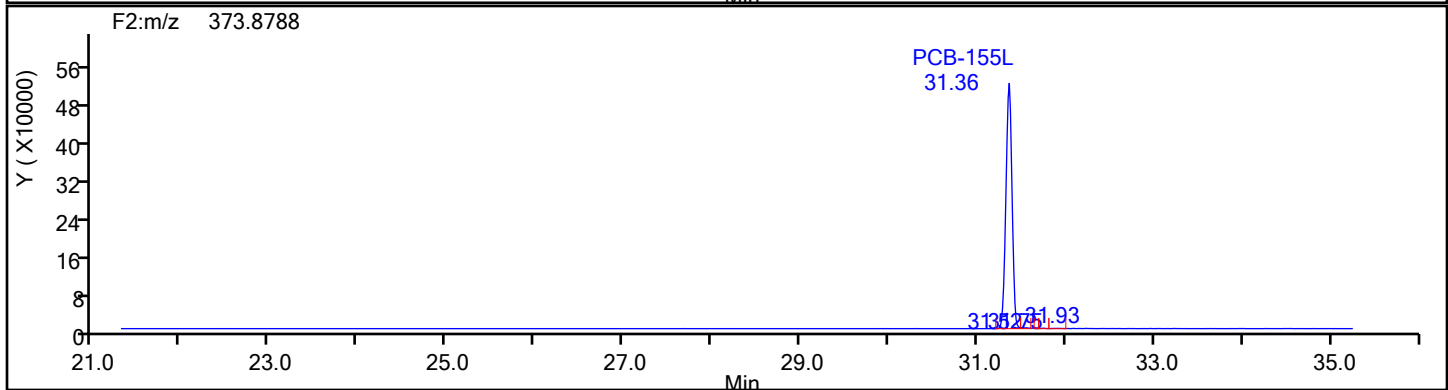
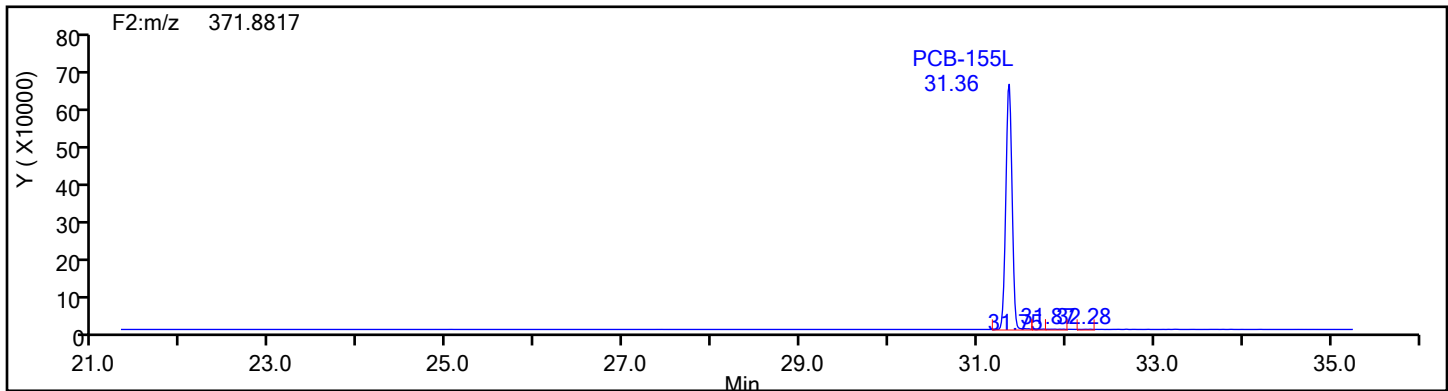
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

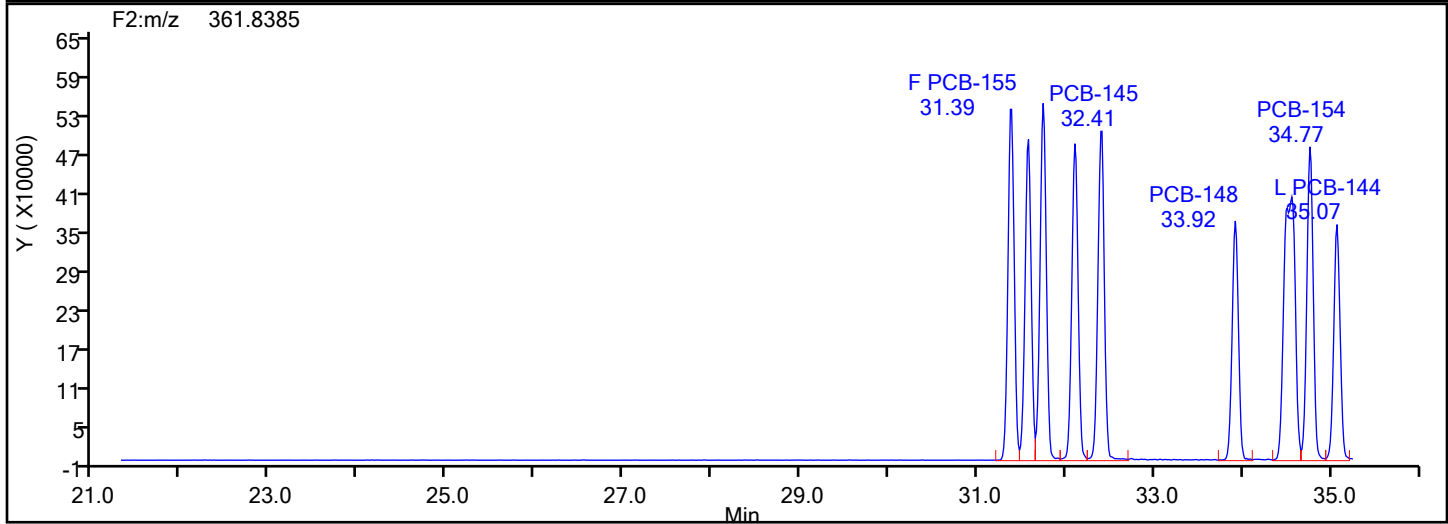
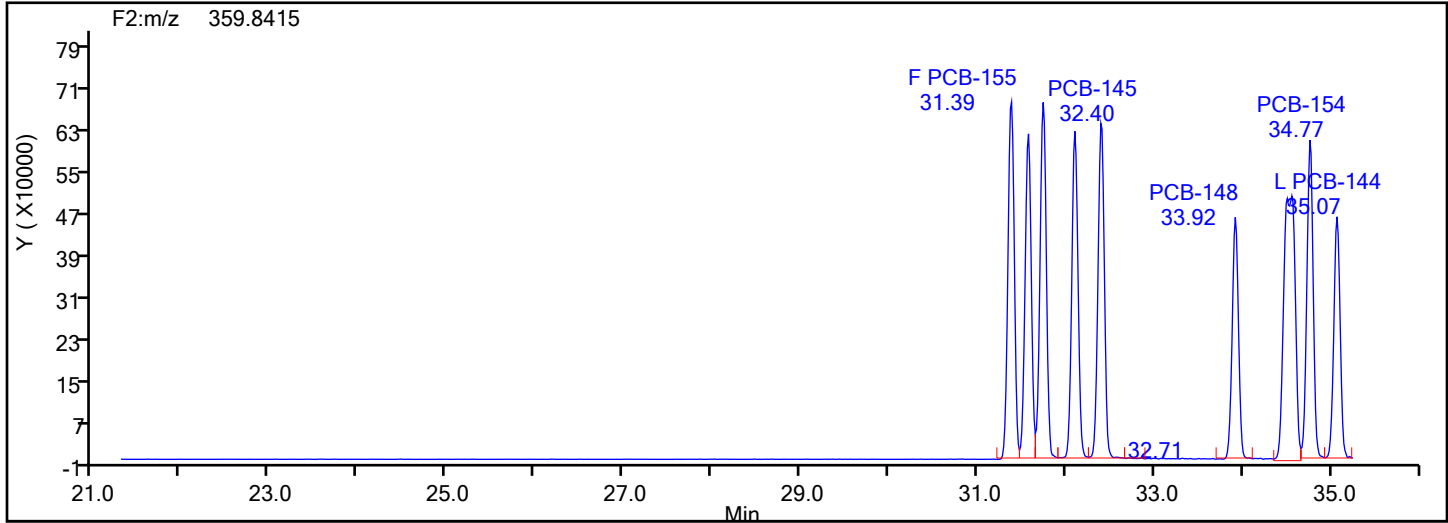
Worklist#: 87130

Sample Line#: 7

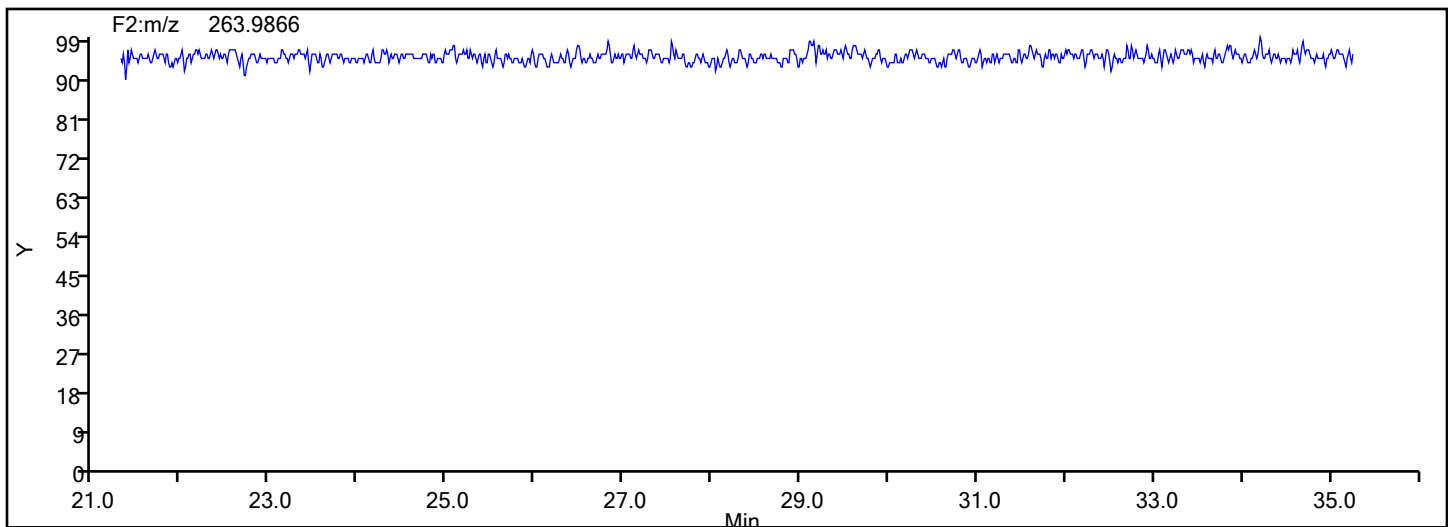
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

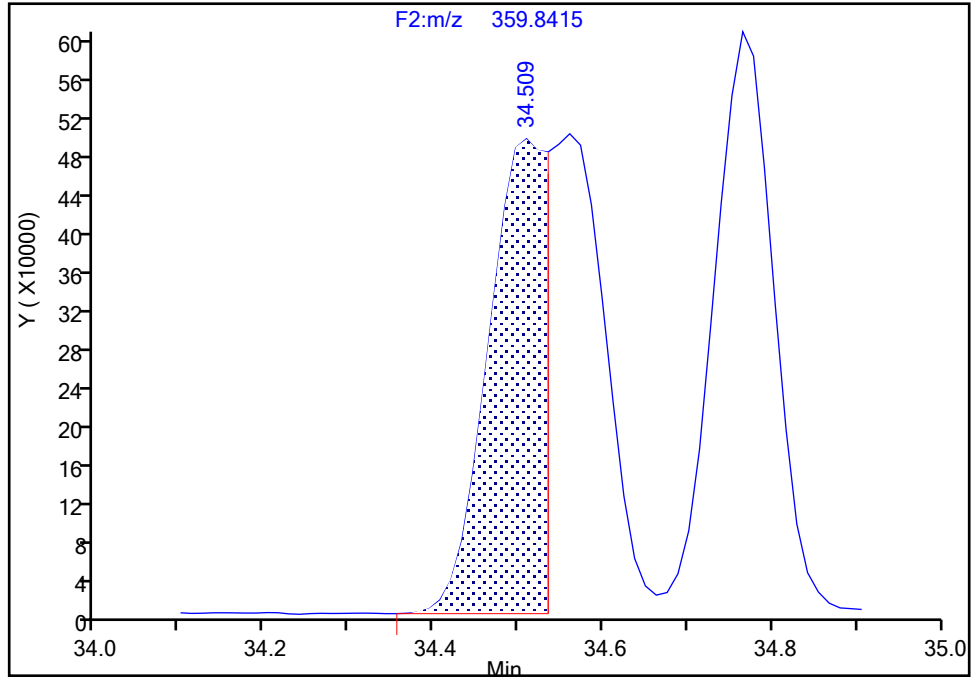
F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

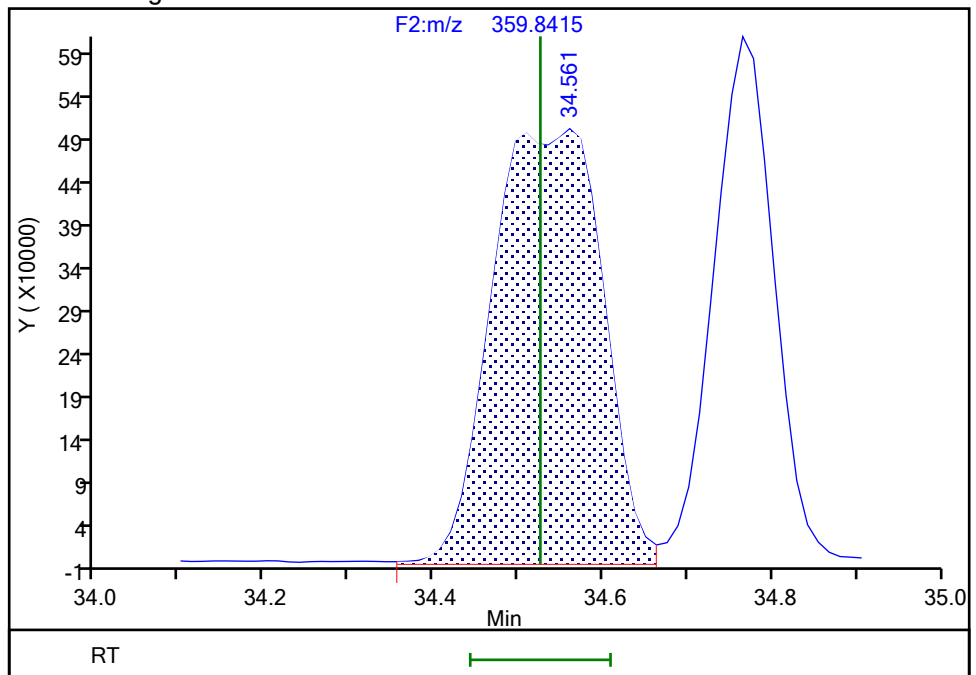
RT: 34.51
Area: 2291087
Amount: 91.434676
Amount Units: pg/ul

Processing Integration Results



RT: 34.56
Area: 4550681
Amount: 196.2216
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

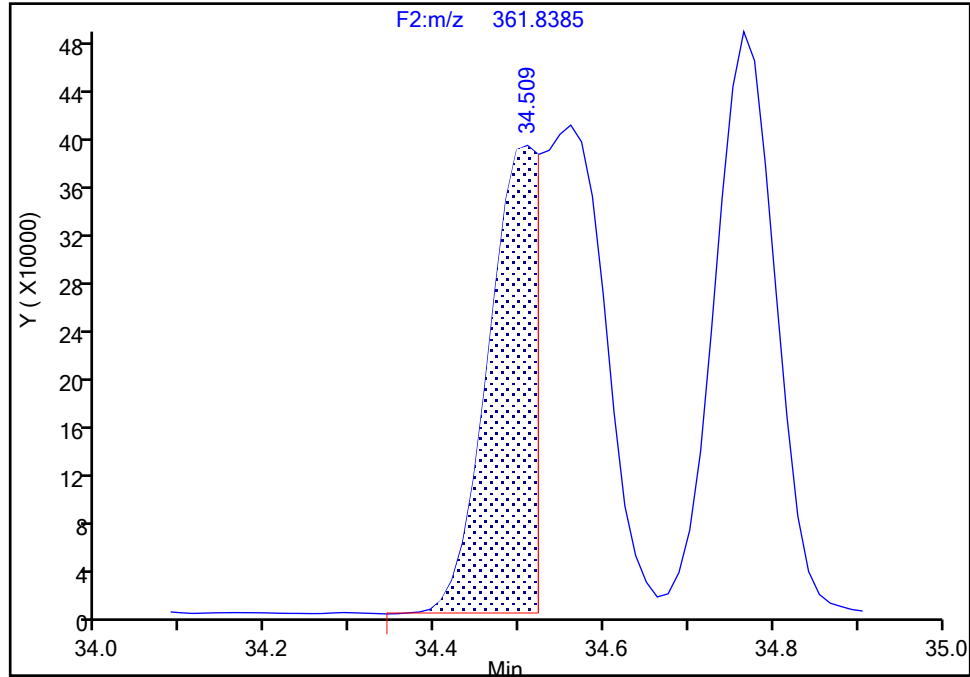
F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

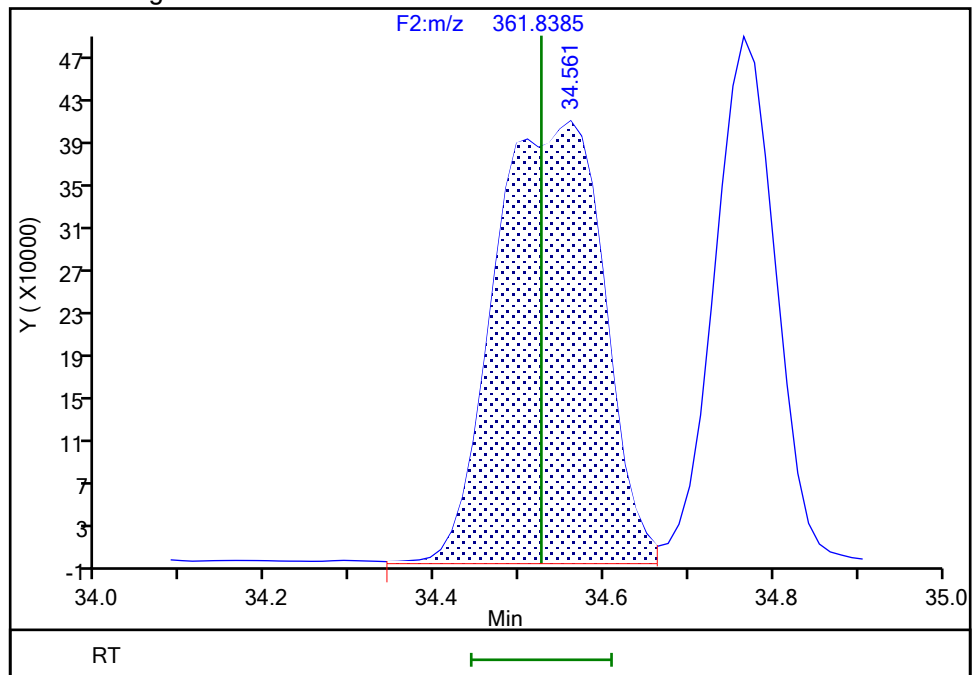
RT: 34.51
Area: 1513215
Amount: 91.434676
Amount Units: pg/ul

Processing Integration Results



RT: 34.56
Area: 3613466
Amount: 196.2216
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2602 of 3050

BASFWHC-McIntosh-010603

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

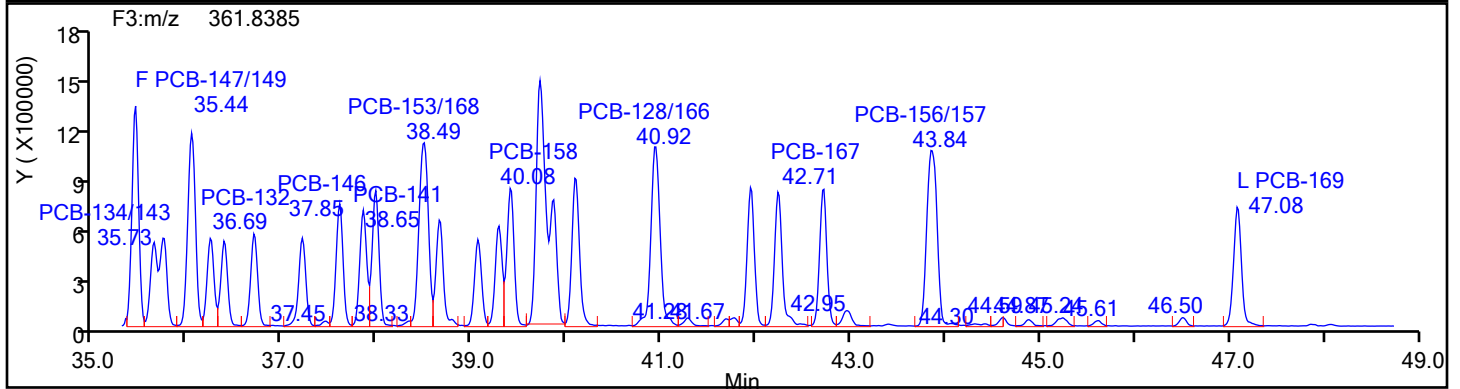
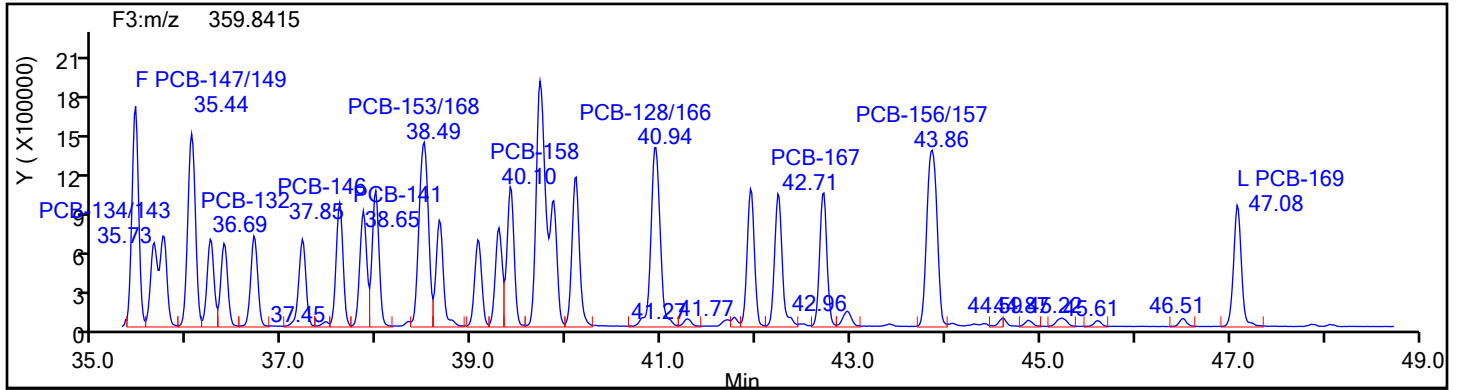
Worklist#: 87130

Sample Line#: 7

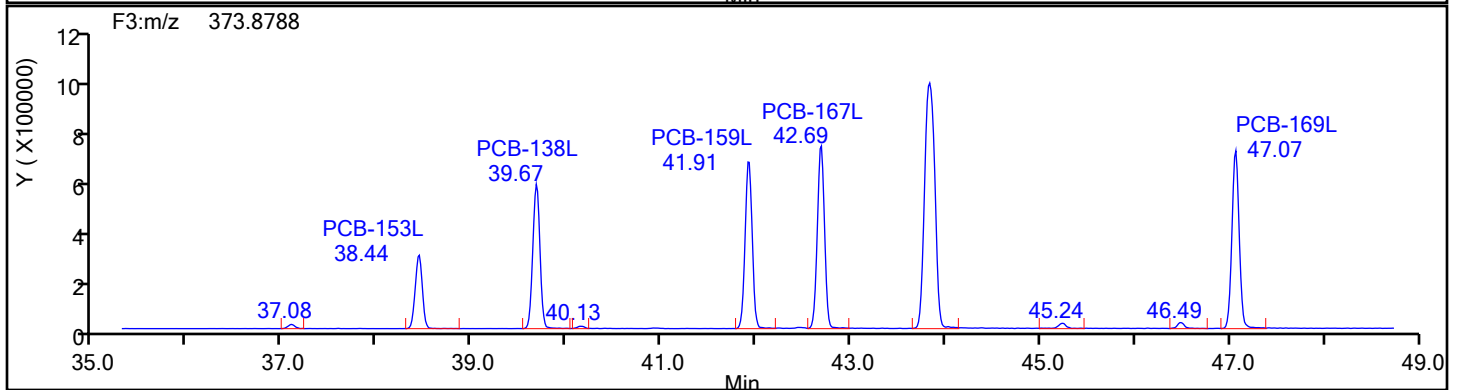
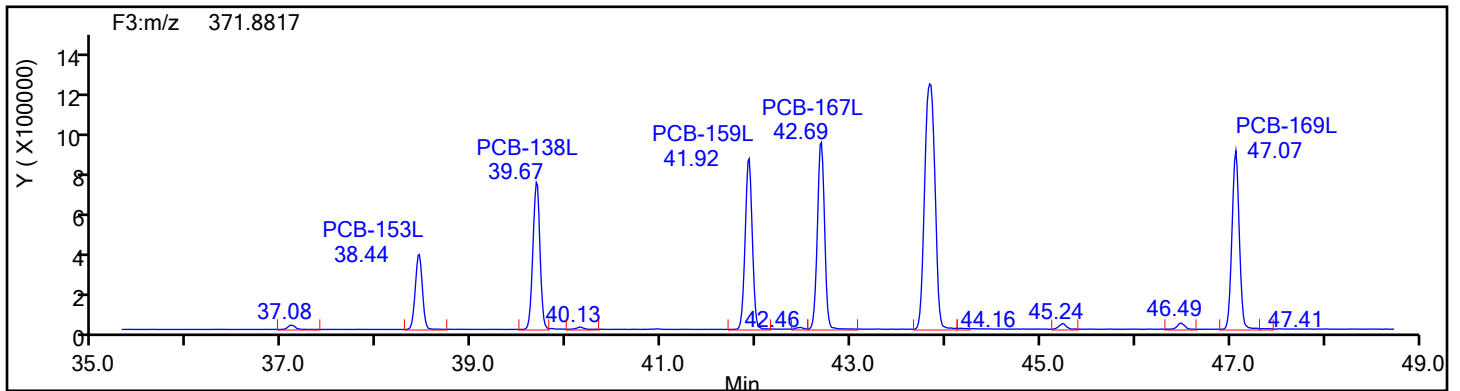
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

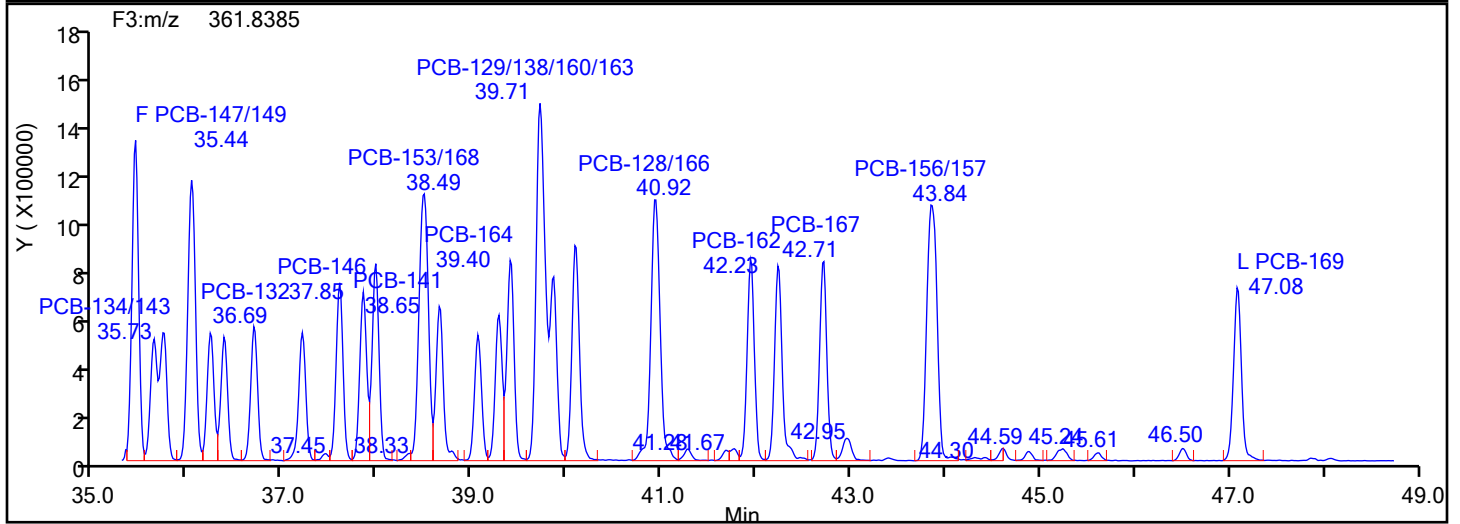
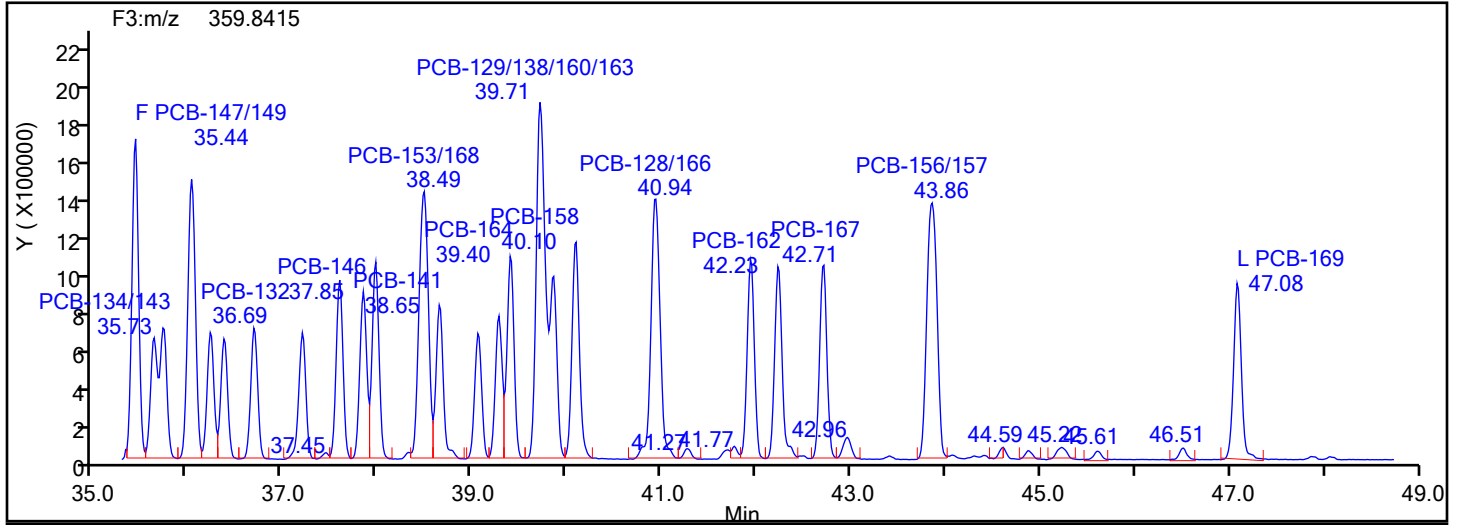
Worklist#: 87130

Sample Line#: 7

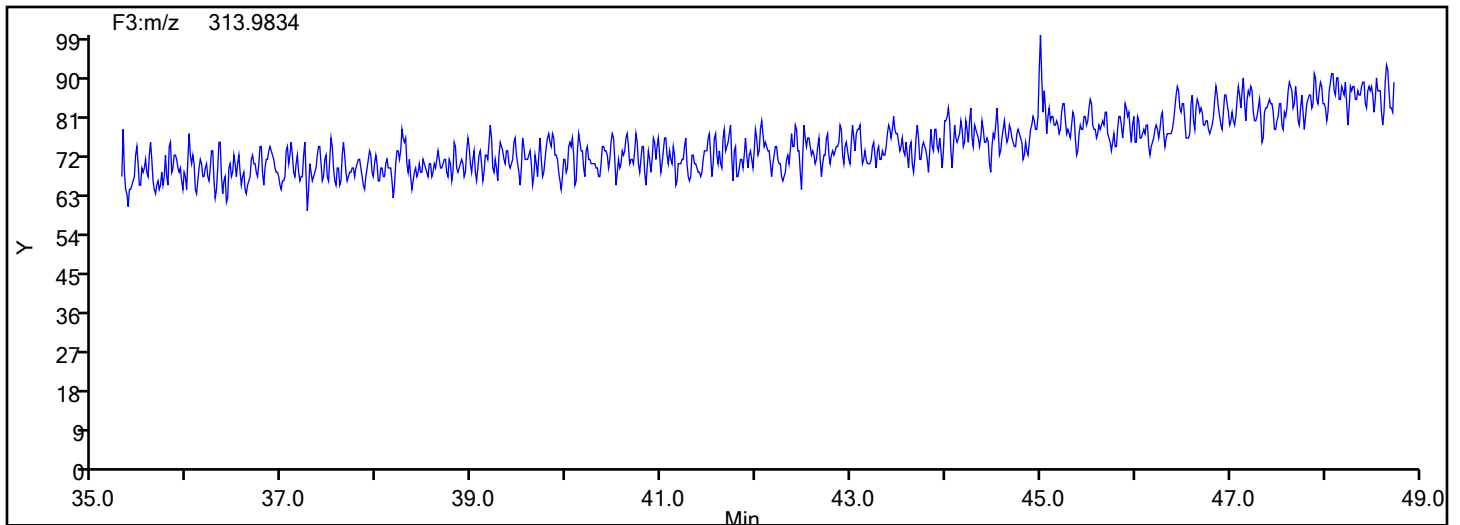
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

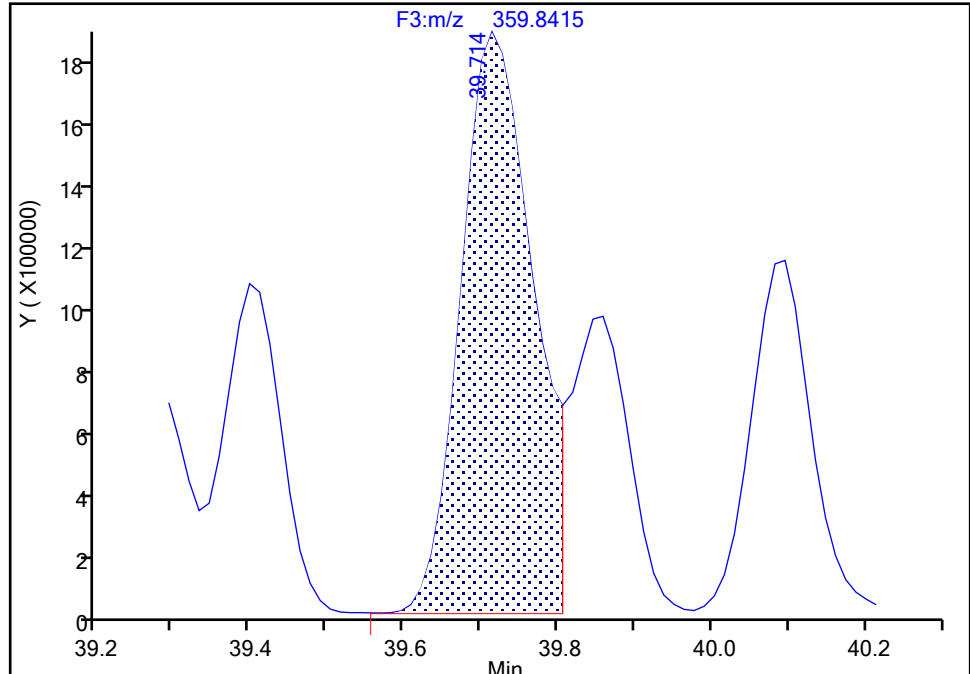
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

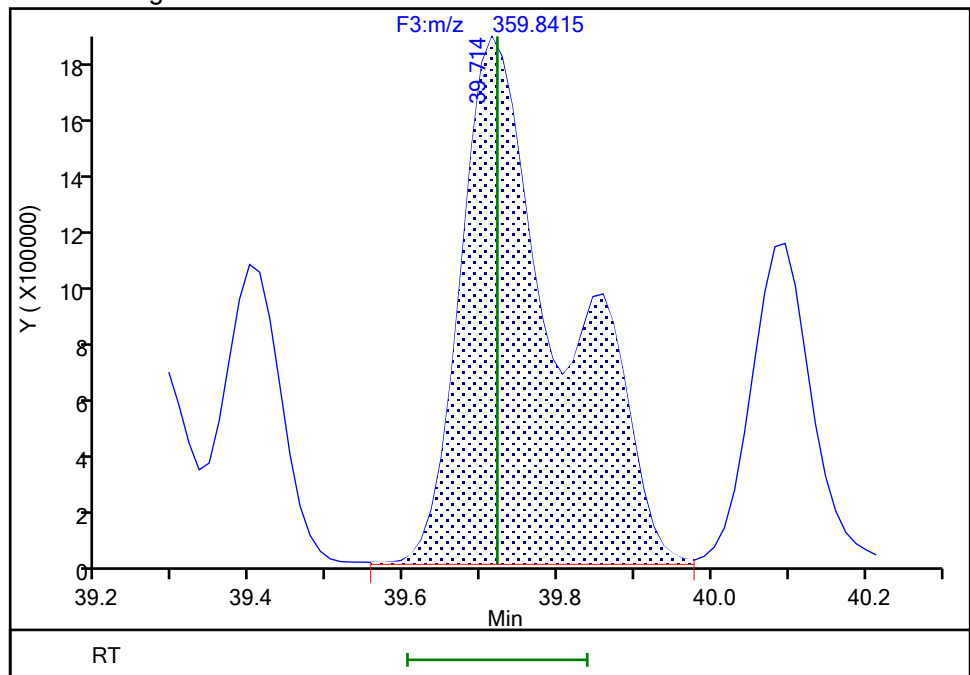
RT: 39.71
Area: 12104636
Amount: 281.2795
Amount Units: pg/ul

Processing Integration Results



RT: 39.71
Area: 17023216
Amount: 394.5828
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

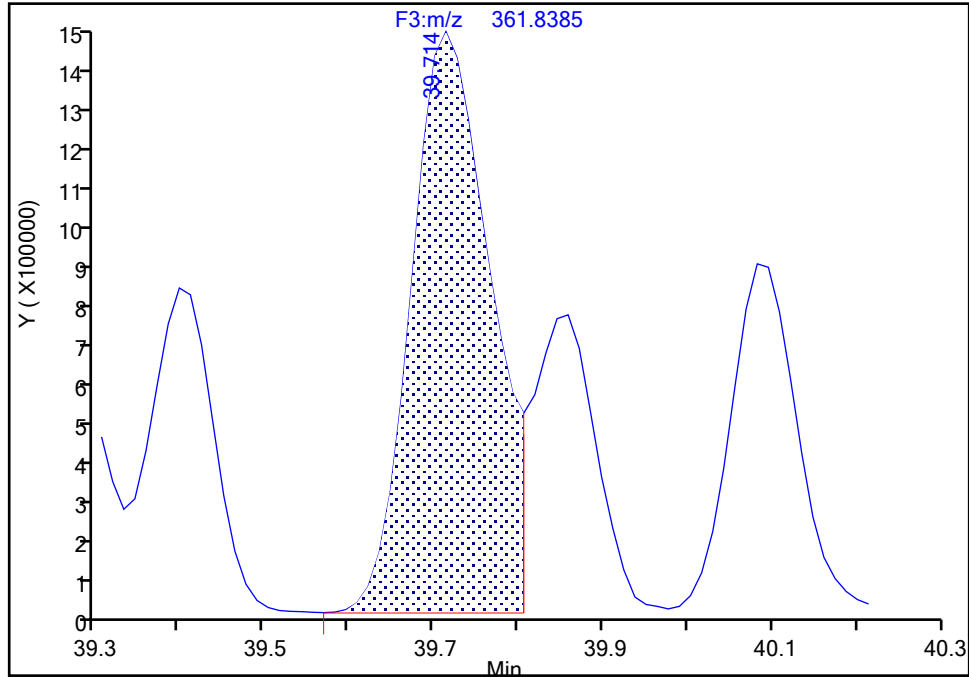
Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

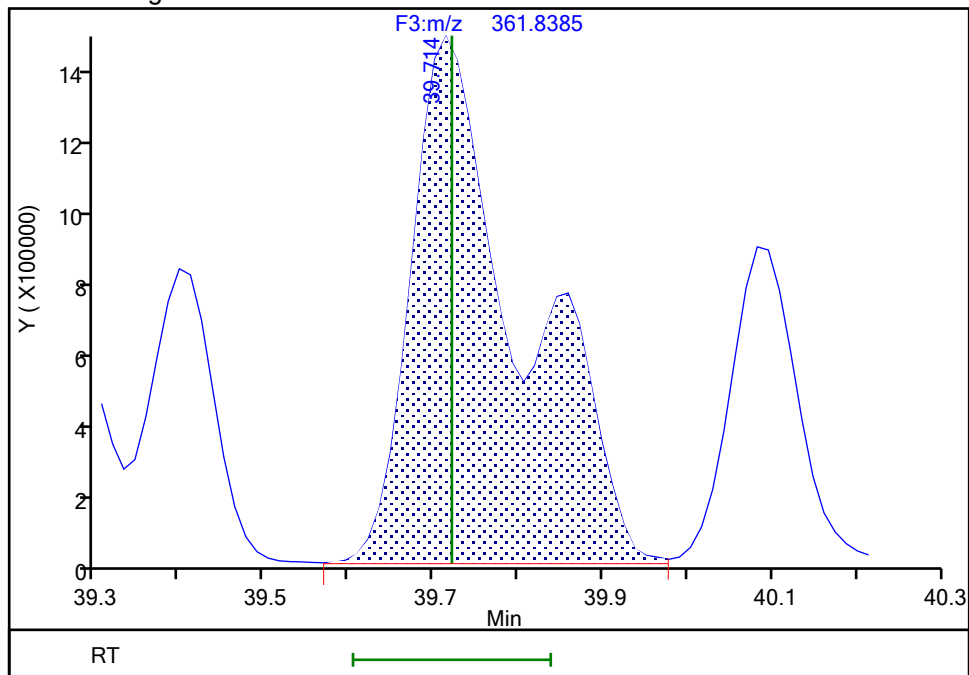
RT: 39.71
Area: 9688953
Amount: 281.2795
Amount Units: pg/ul

Processing Integration Results



RT: 39.71
Area: 13549137
Amount: 394.5828
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2606 of 3050

BASFWHC-McIntosh-010607

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

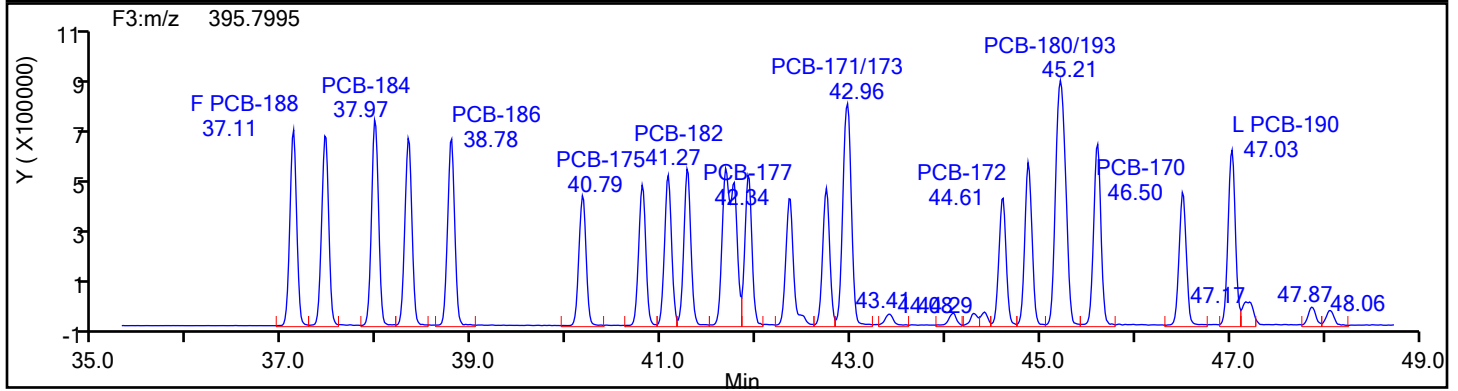
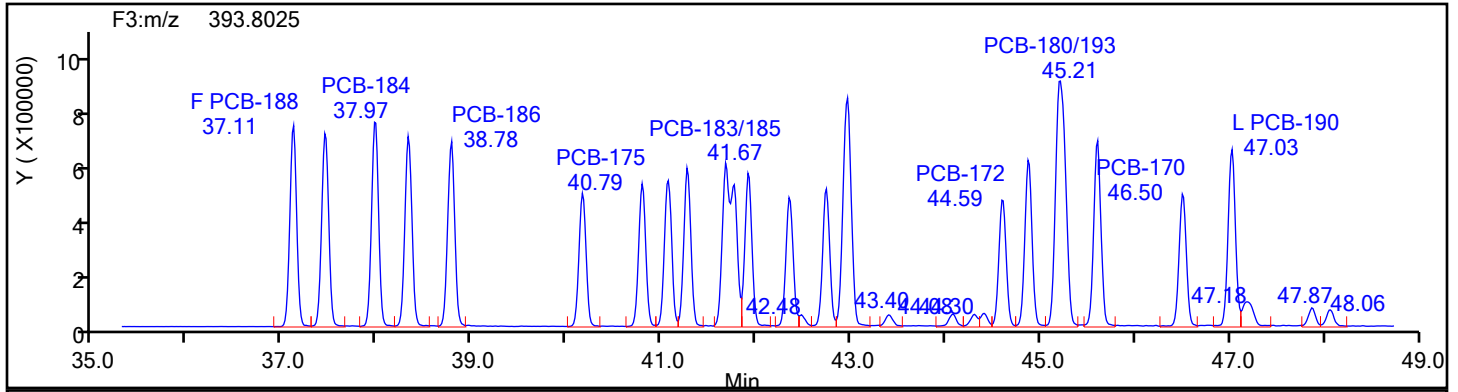
Worklist#: 87130

Sample Line#: 7

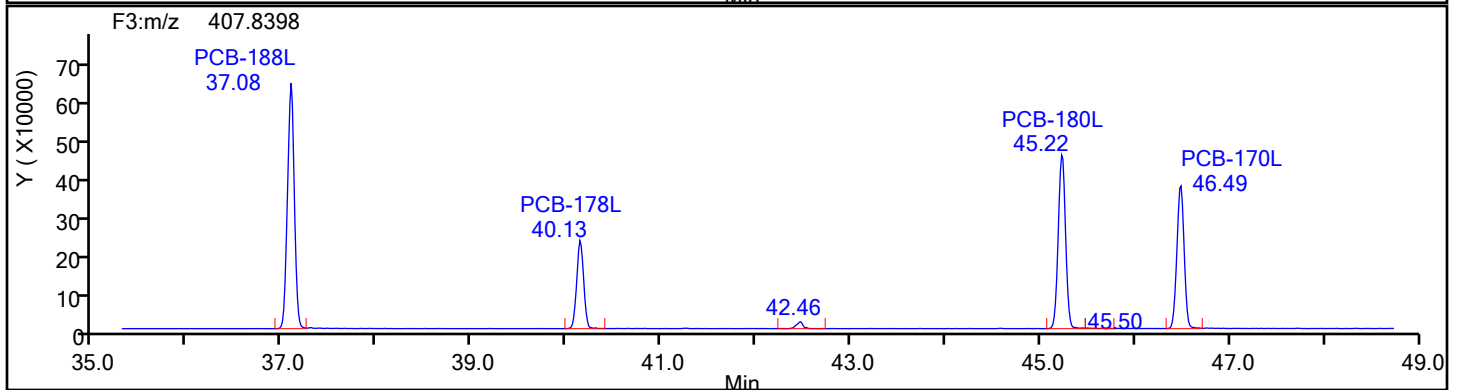
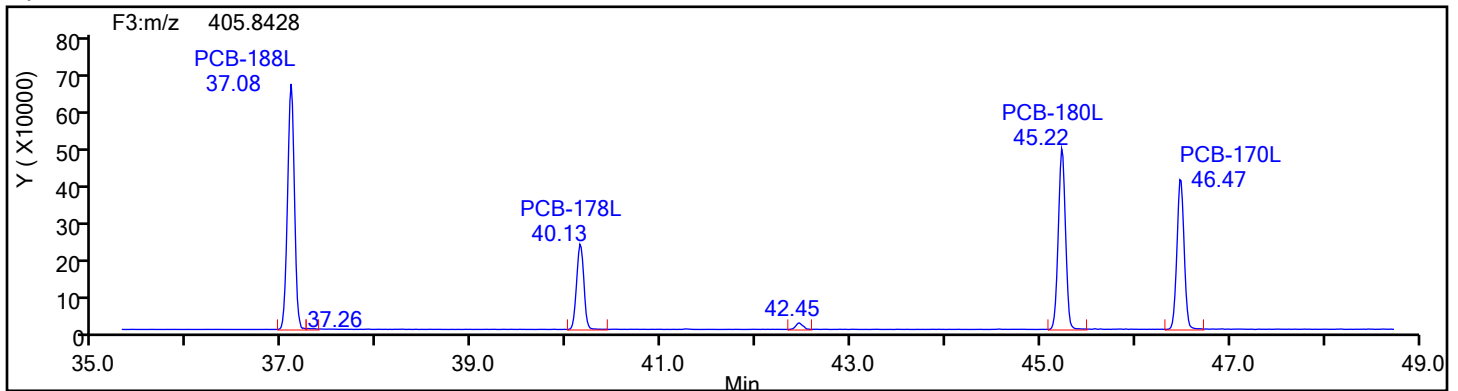
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

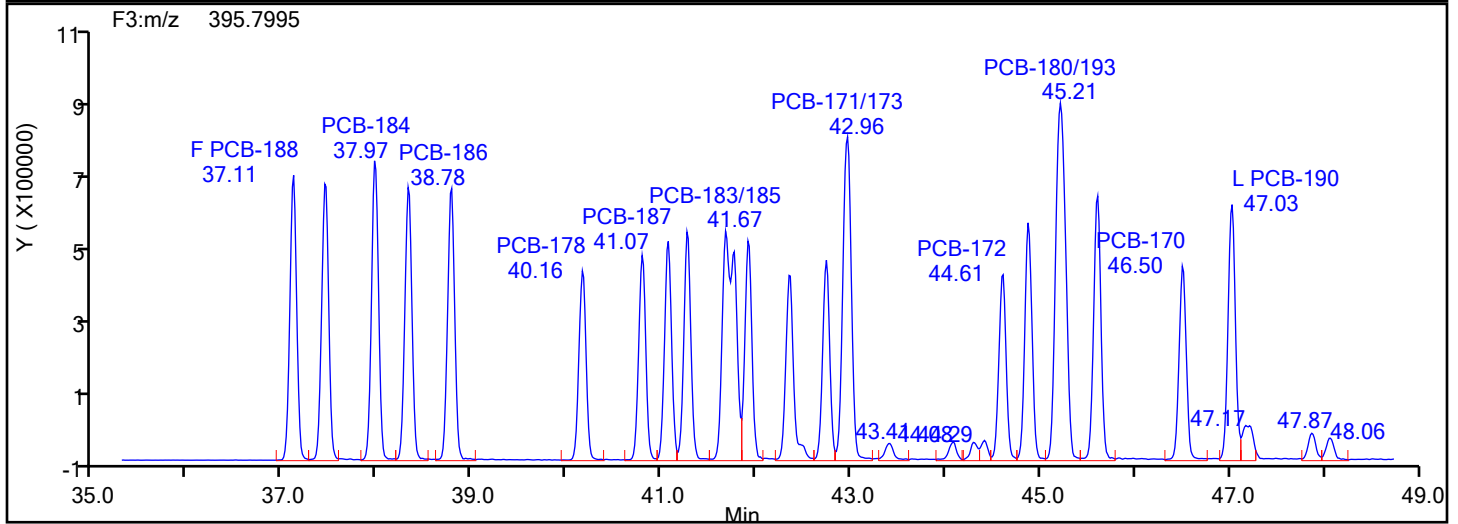
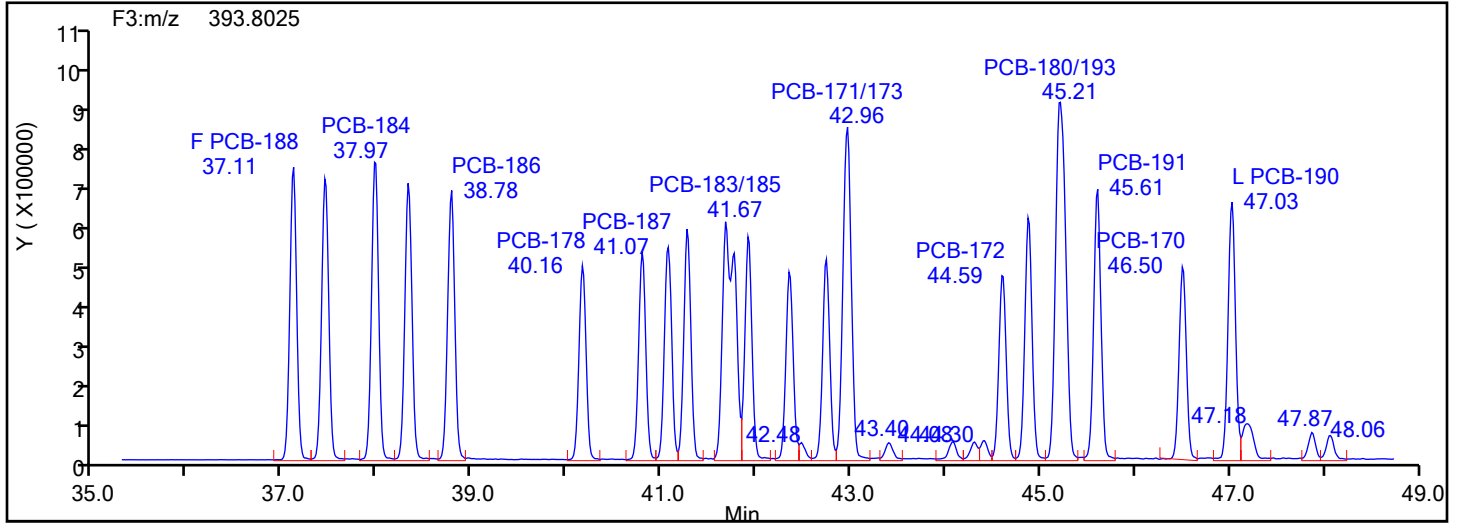
Worklist#: 87130

Sample Line#: 7

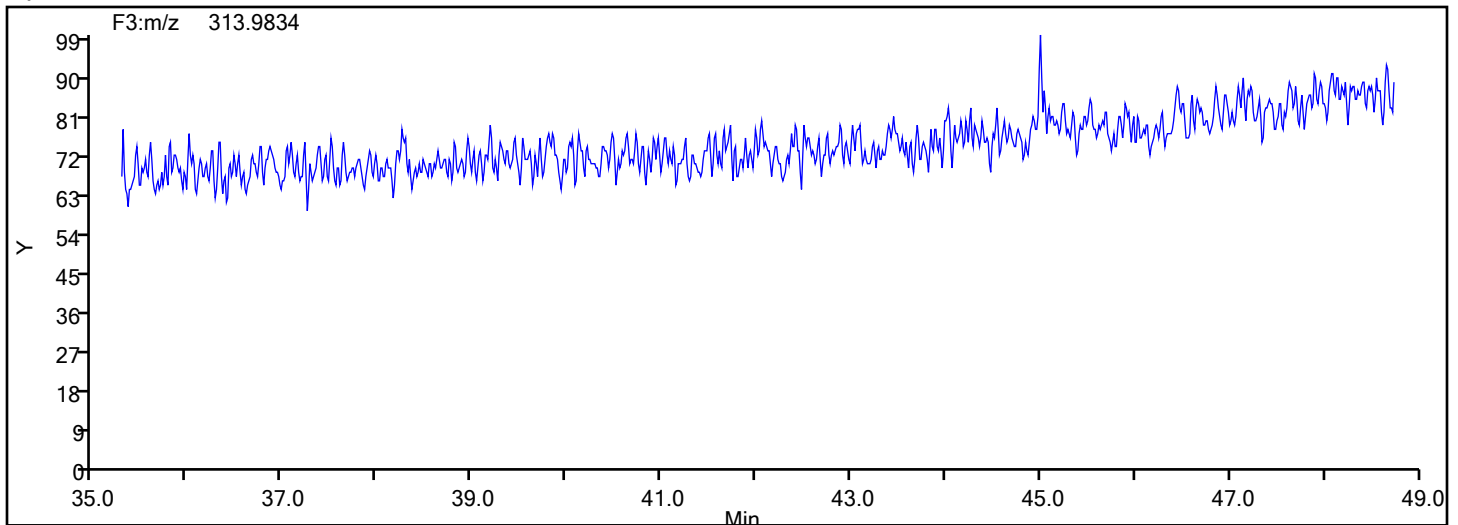
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

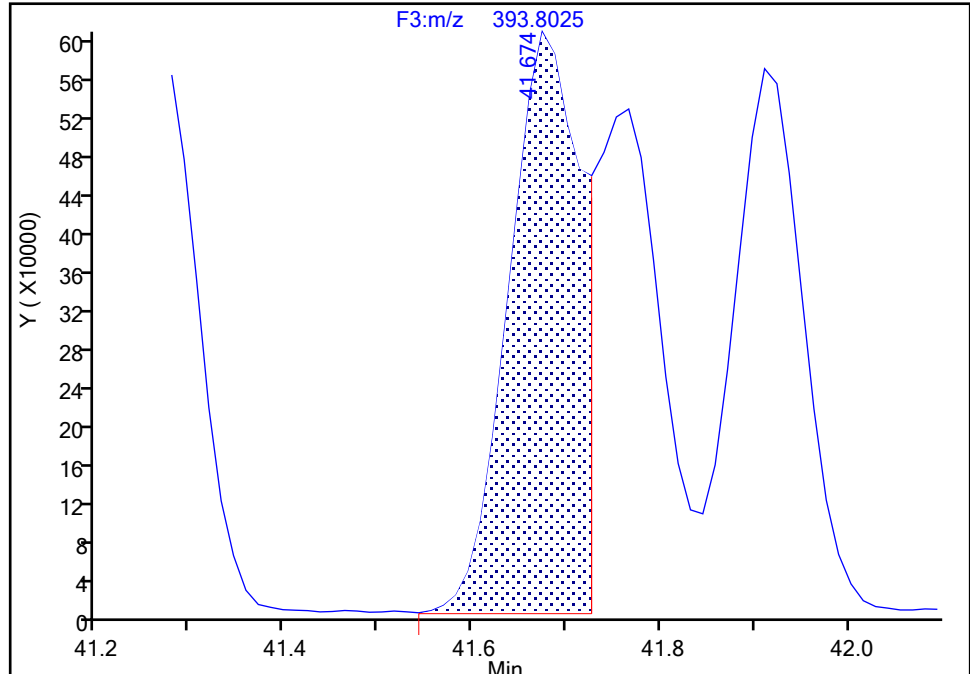
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

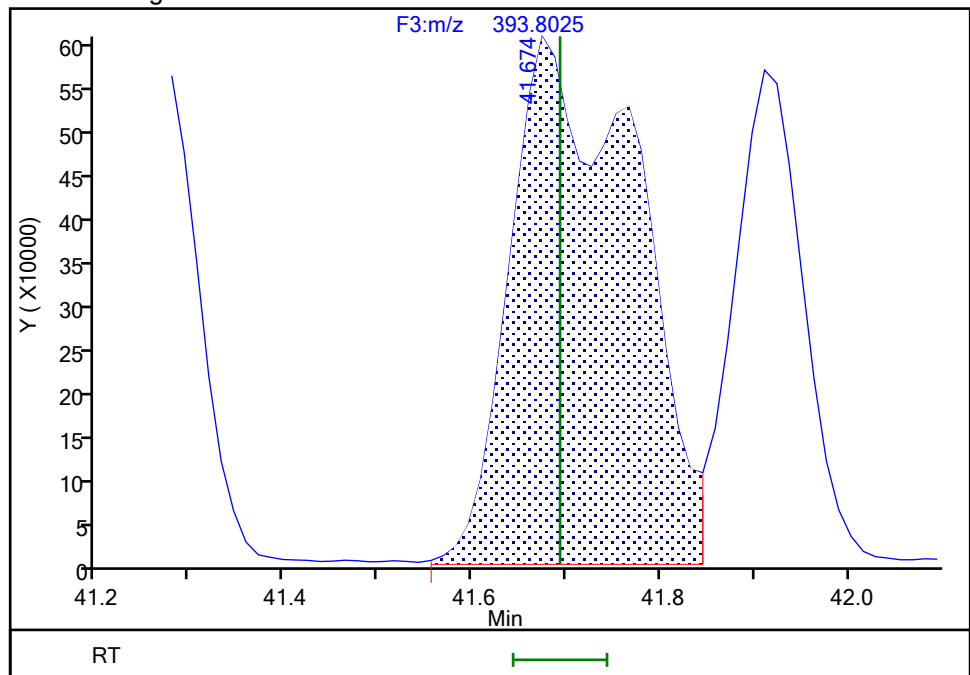
RT: 41.67
Area: 3179859
Amount: 117.0323
Amount Units: pg/ul

Processing Integration Results



RT: 41.67
Area: 5668555
Amount: 209.7534
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

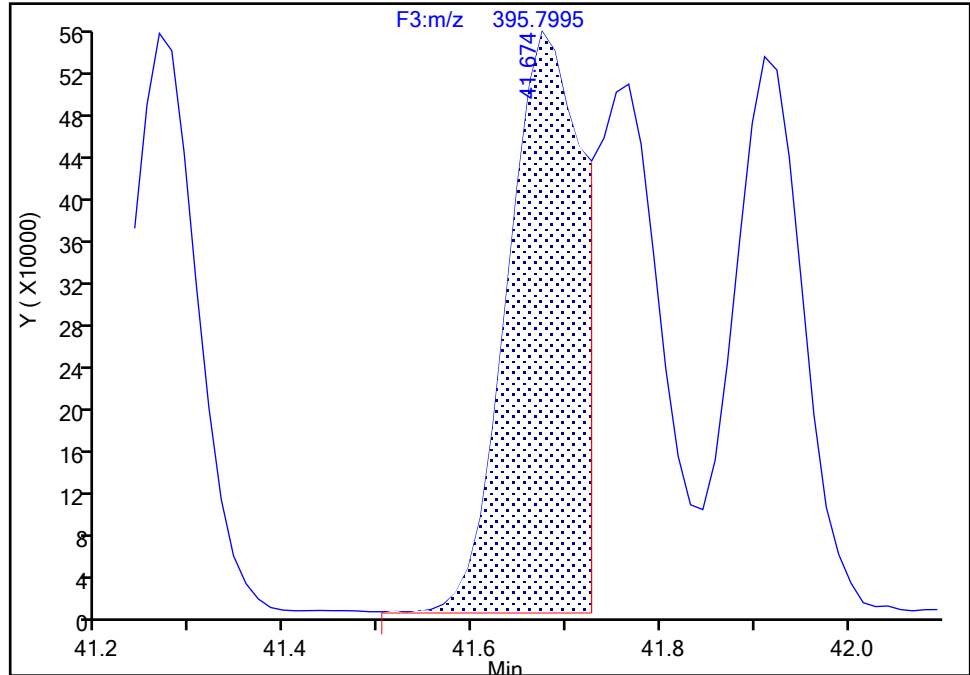
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

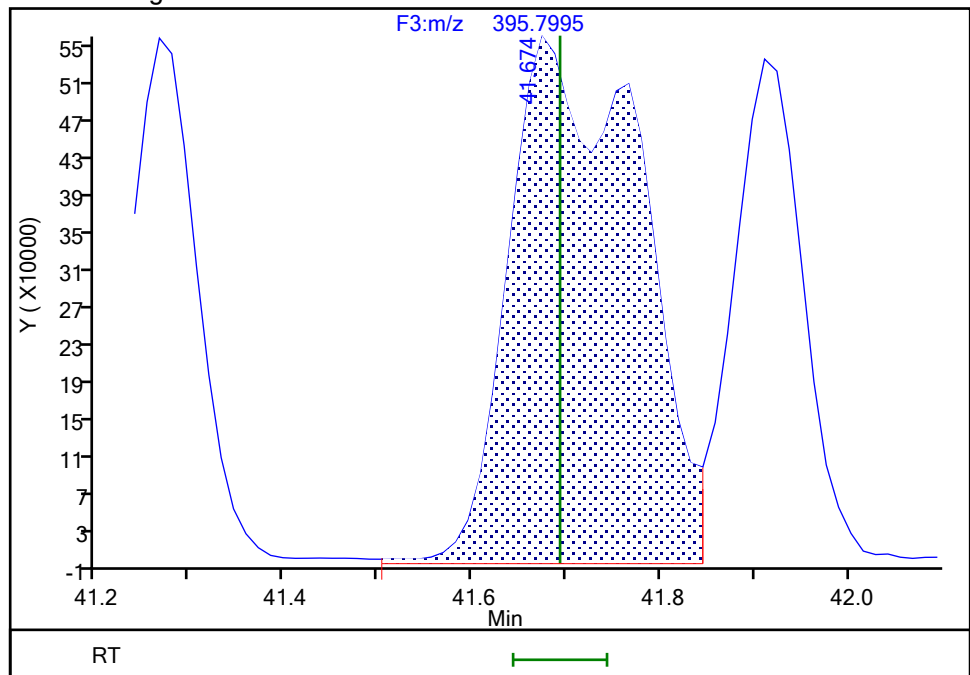
RT: 41.67
Area: 3021759
Amount: 117.0323
Amount Units: pg/ul

Processing Integration Results



RT: 41.67
Area: 5446408
Amount: 209.7534
Amount Units: pg/ul

Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2610 of 3050

BASFWHC-McIntosh-010611

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

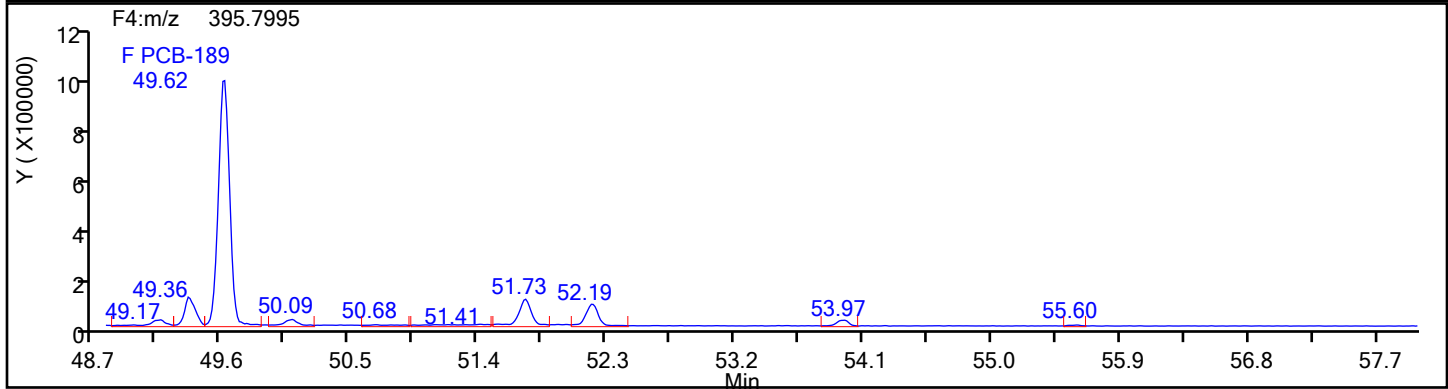
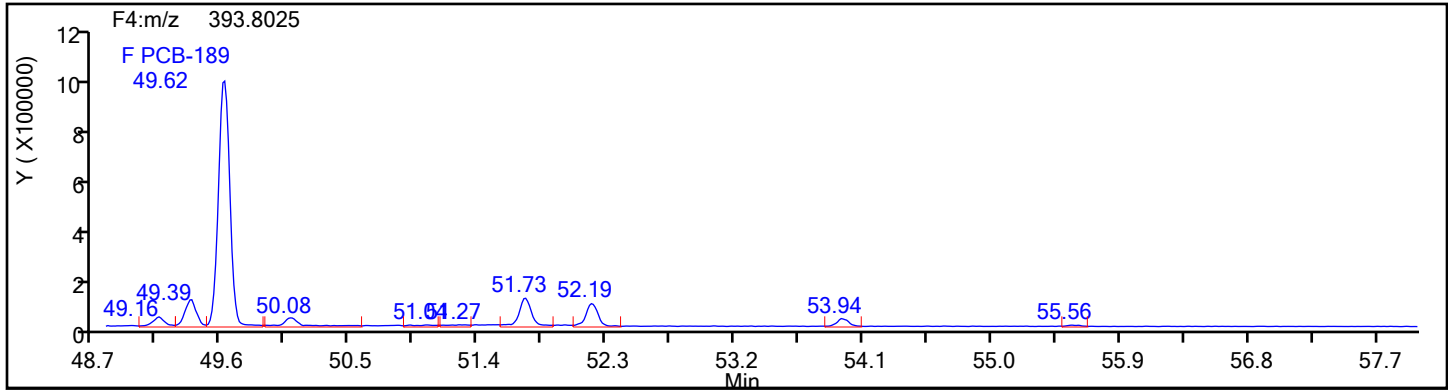
Worklist#: 87130

Sample Line#: 7

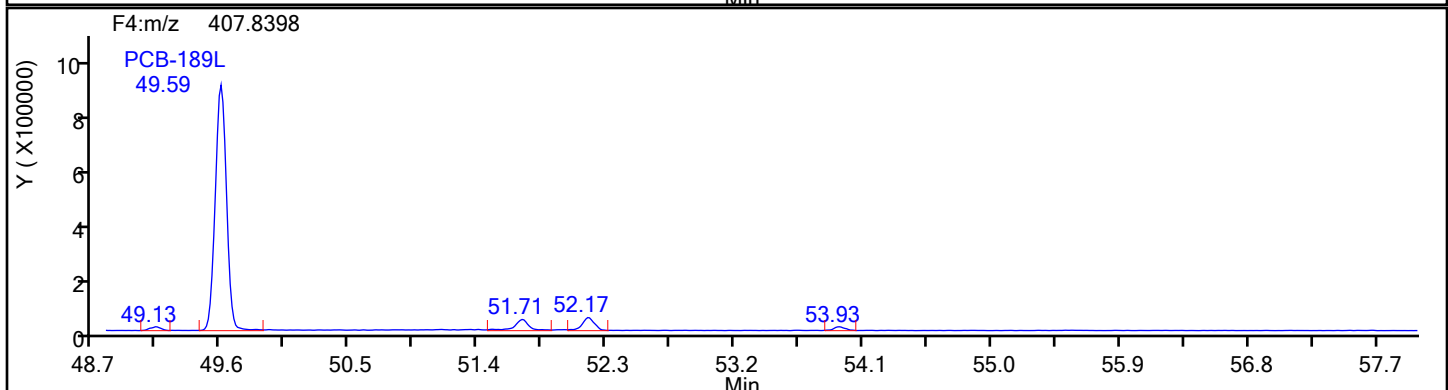
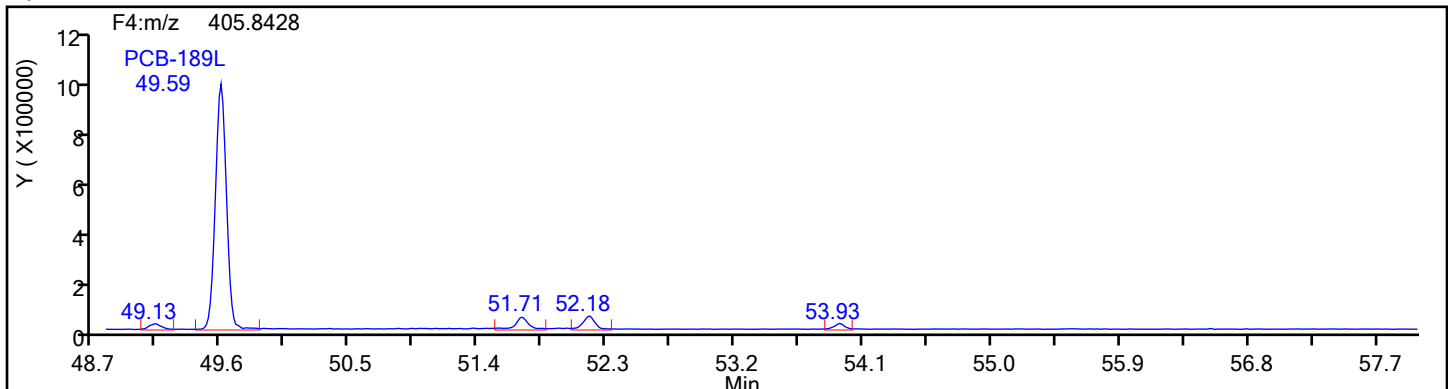
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

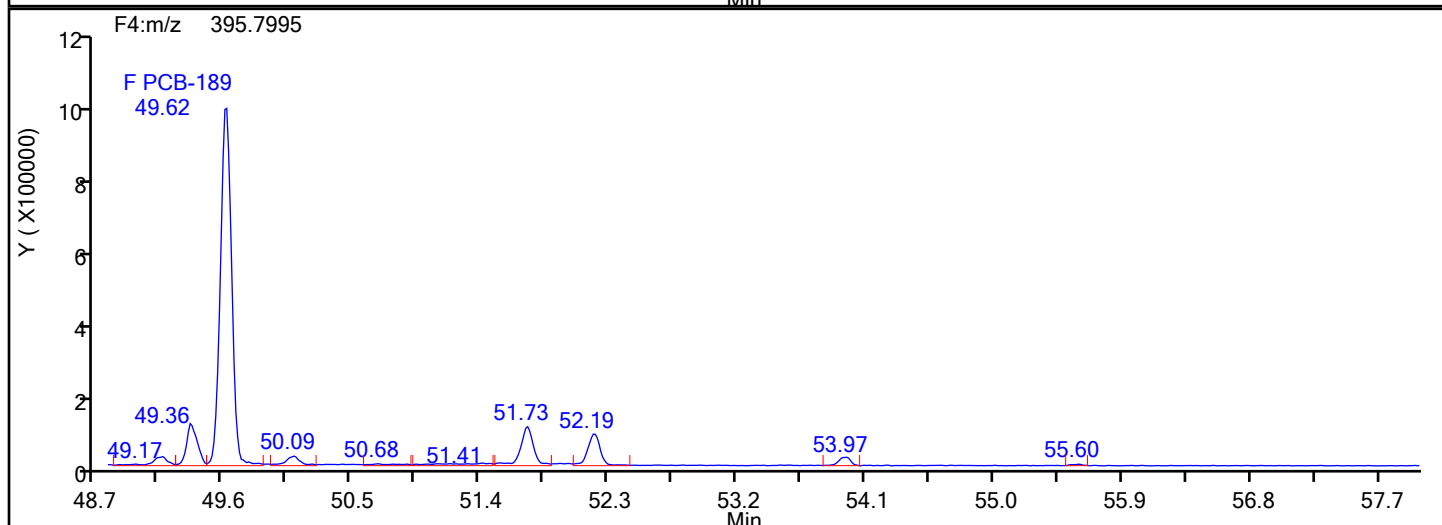
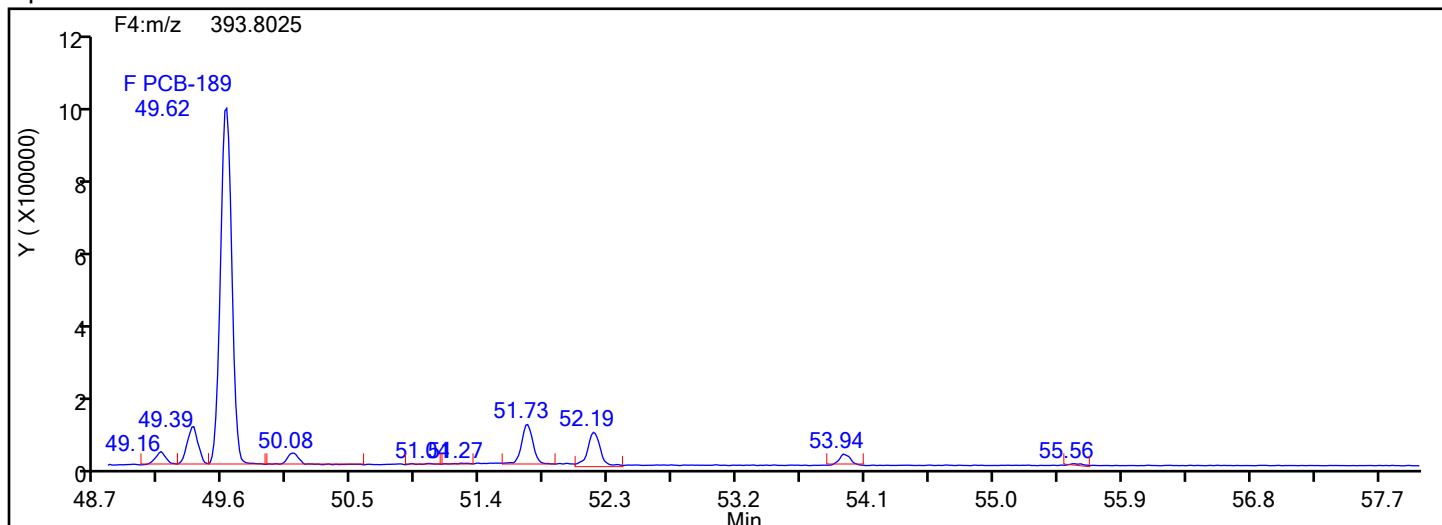
Worklist#: 87130

Sample Line#: 7

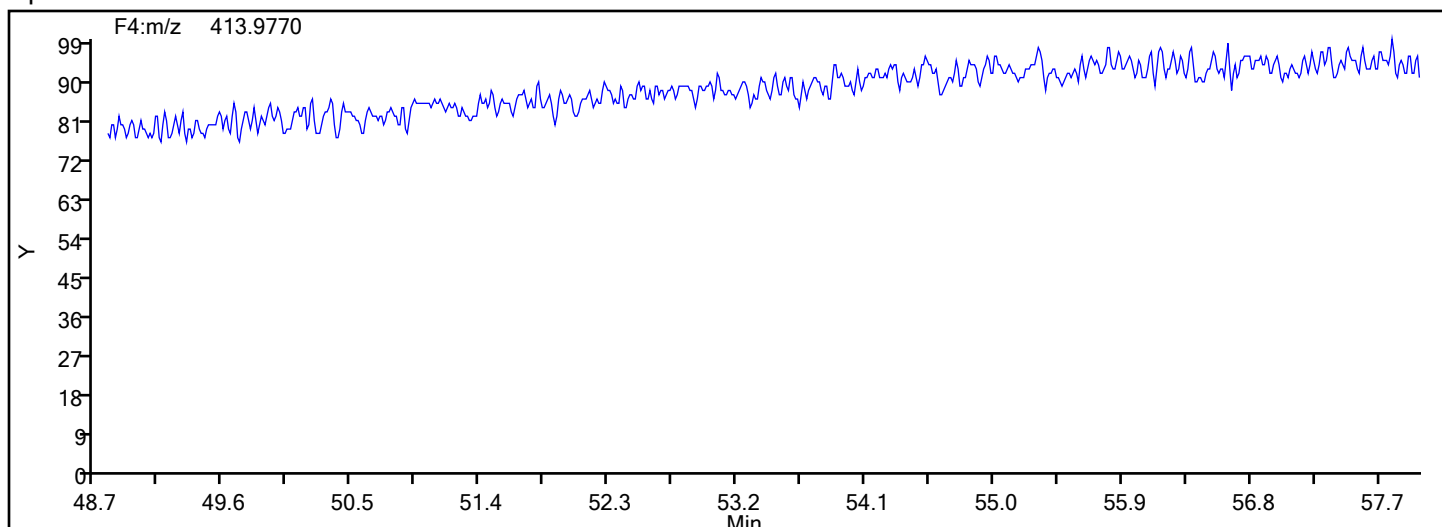
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

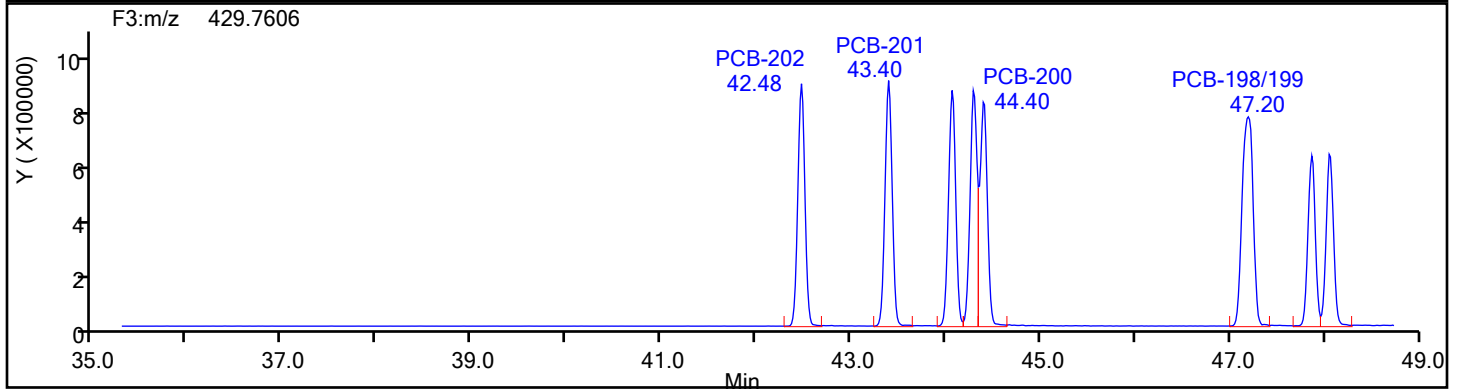
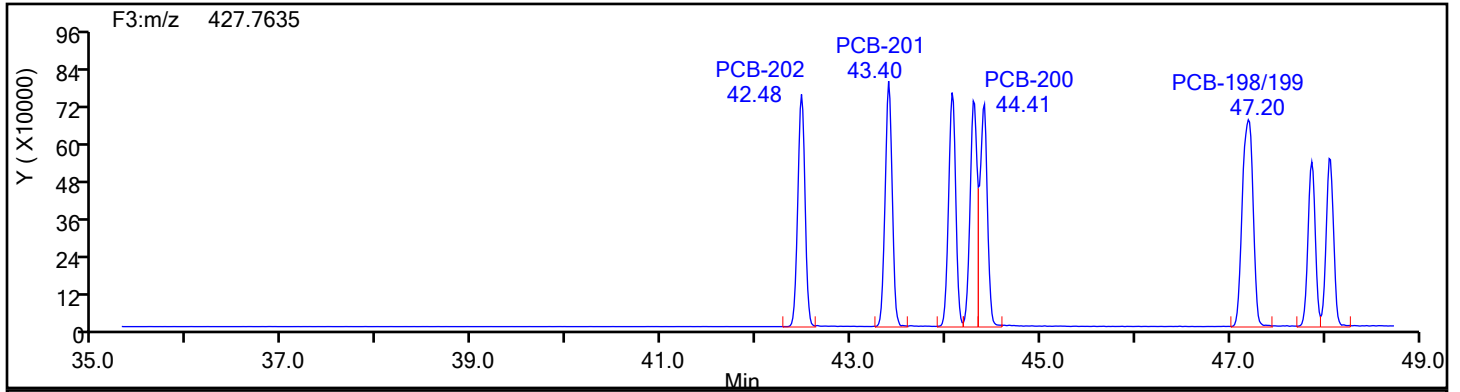
Worklist#: 87130

Sample Line#: 7

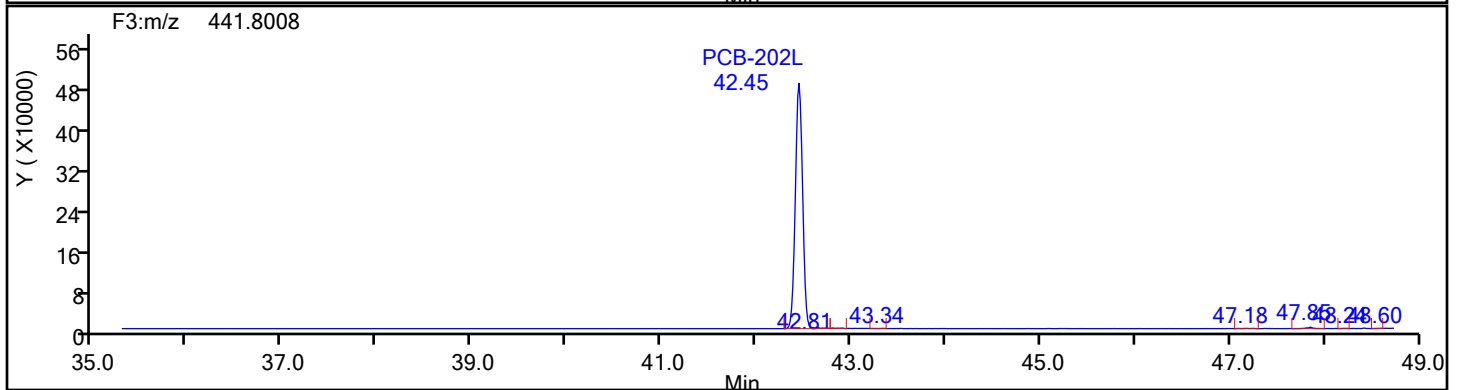
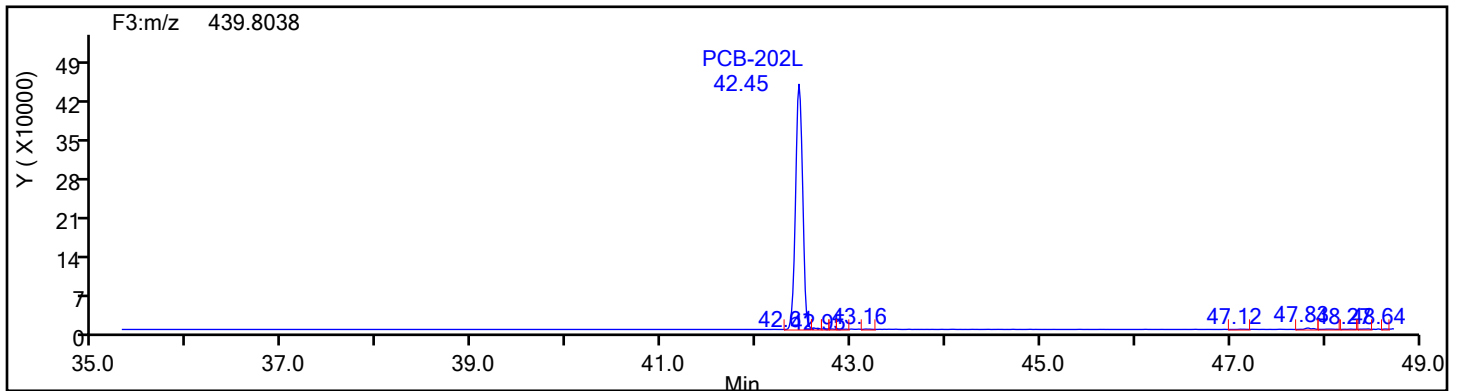
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

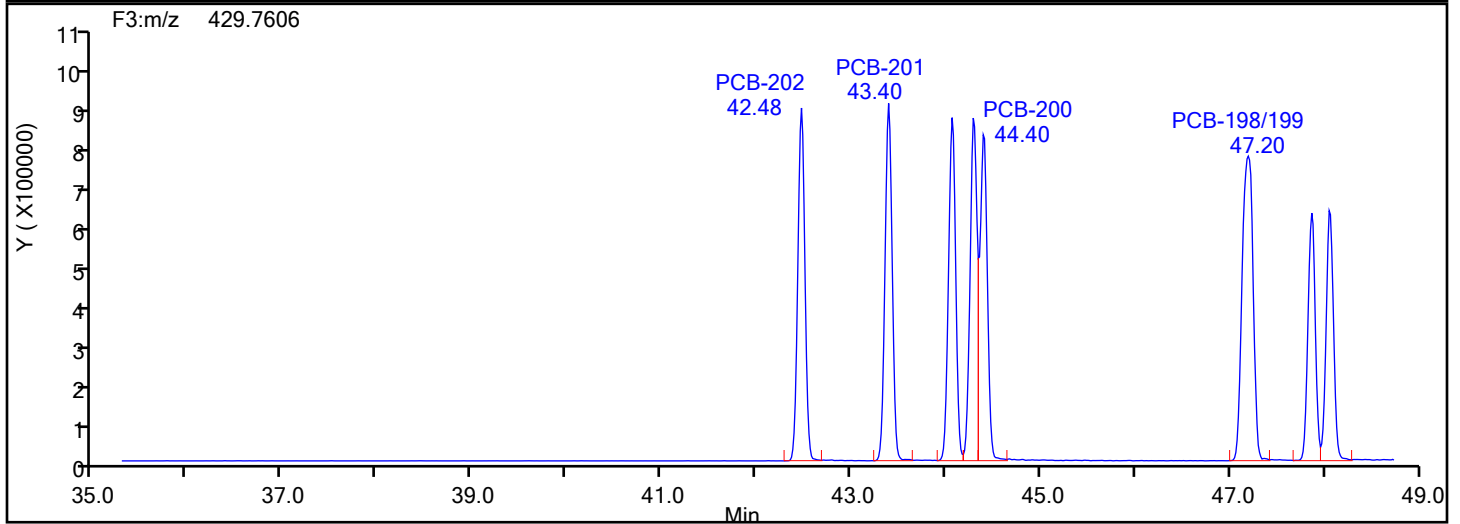
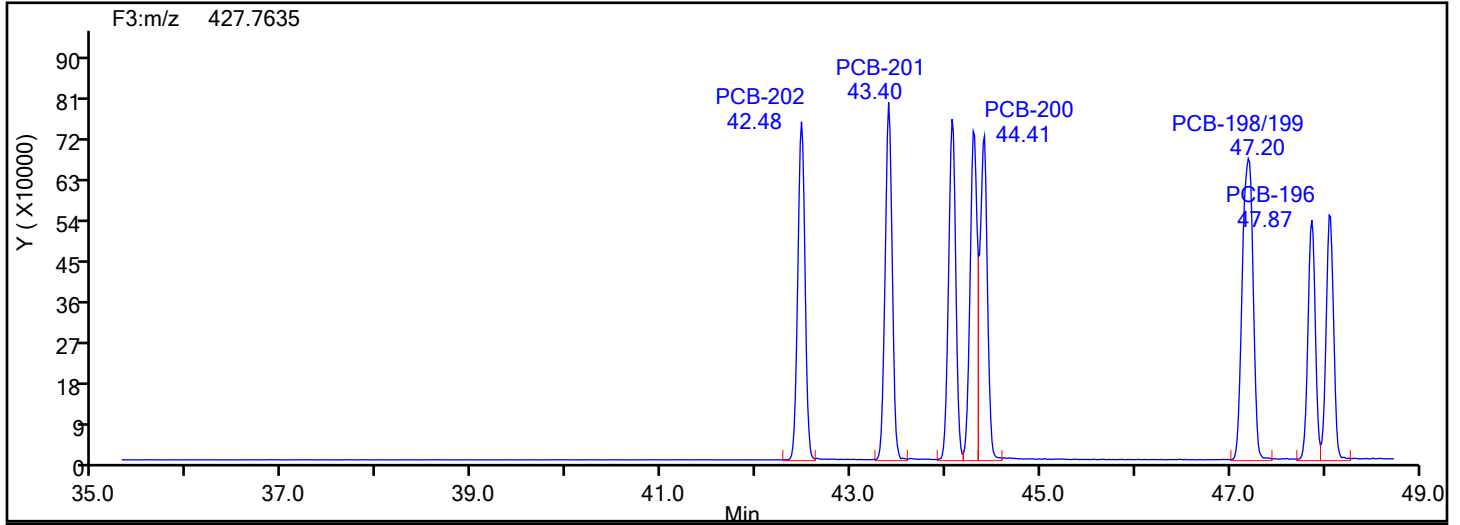
Worklist#: 87130

Sample Line#: 7

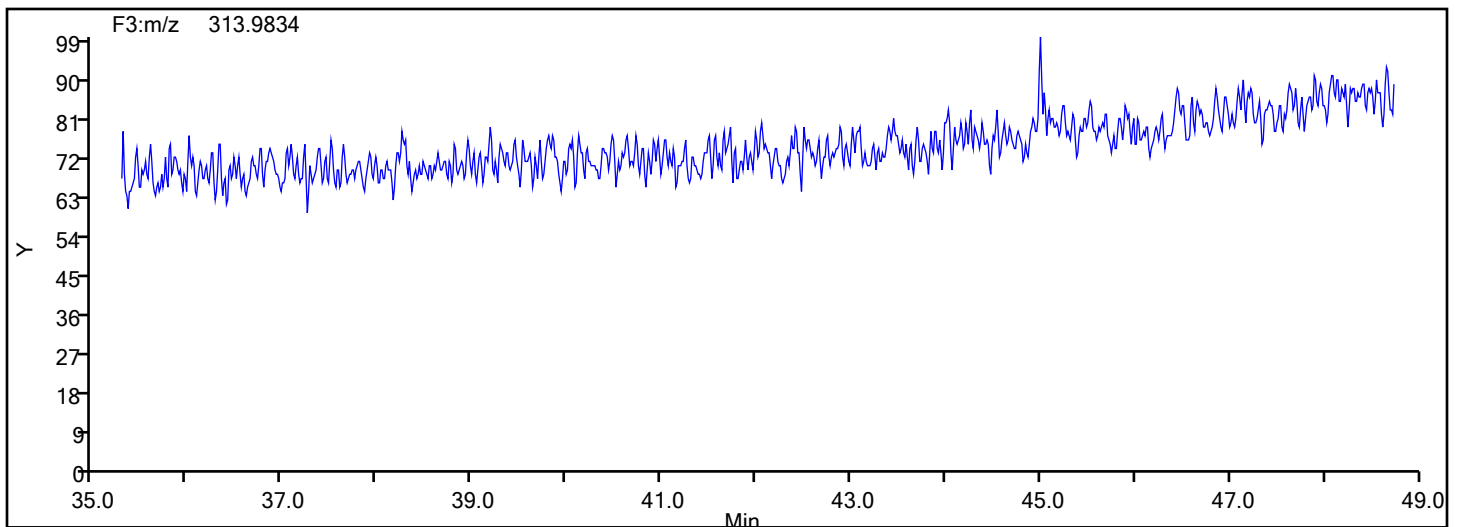
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

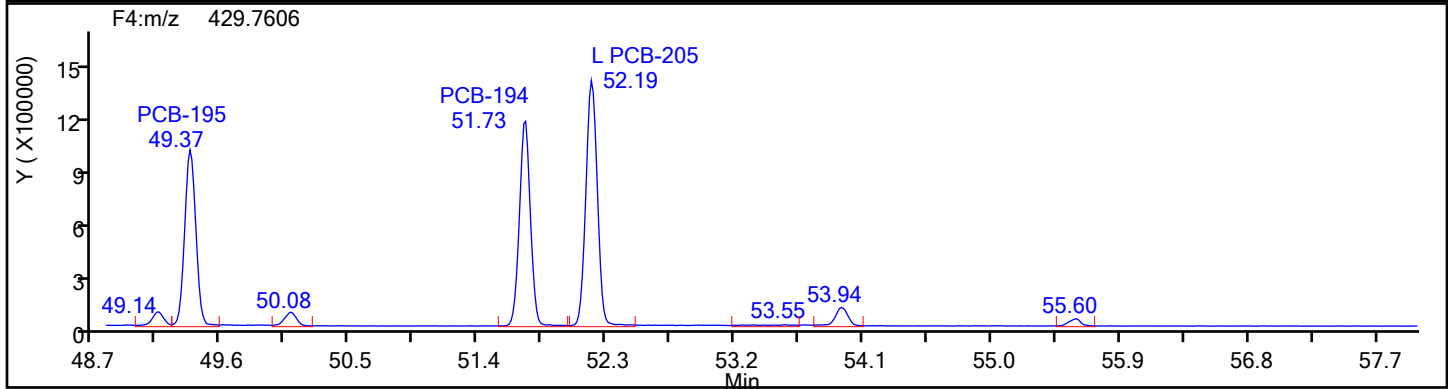
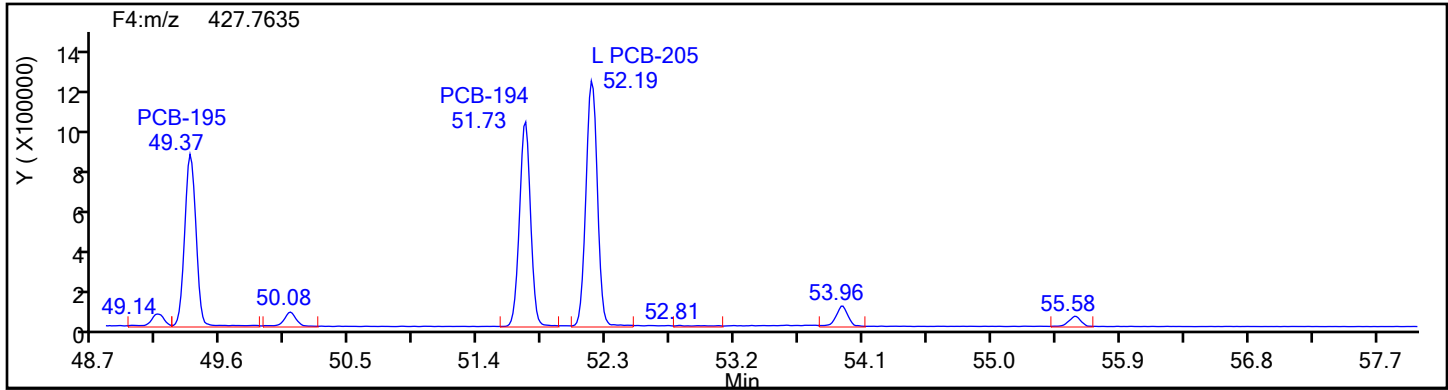
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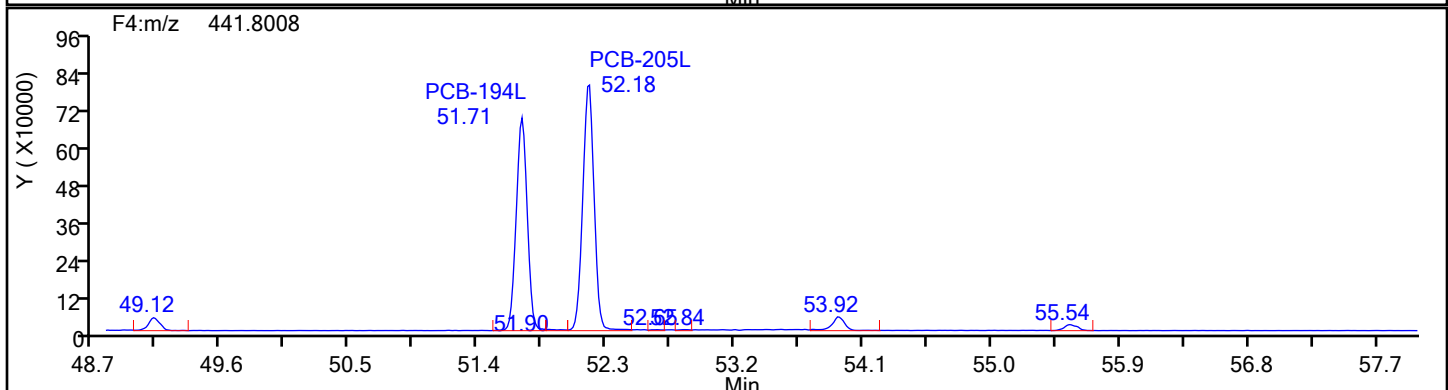
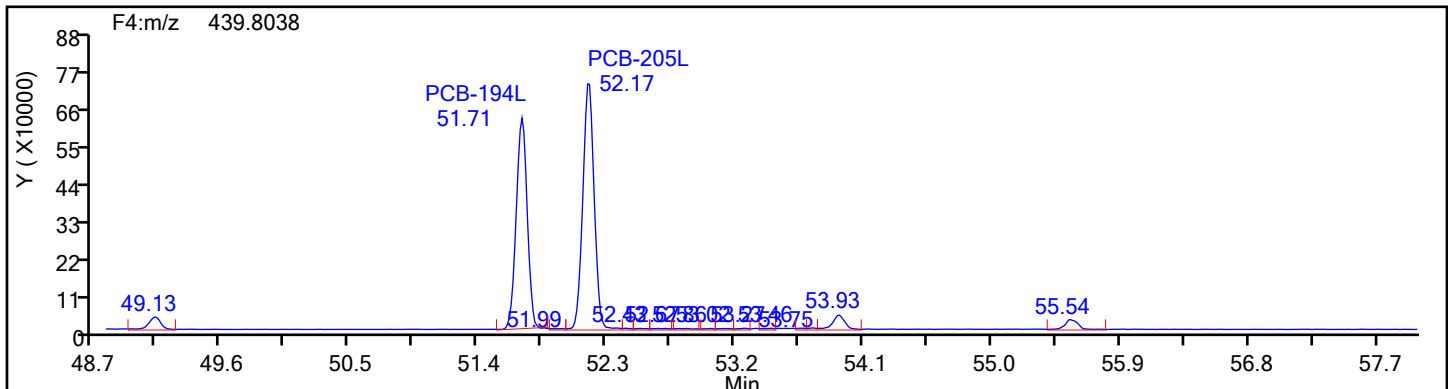
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

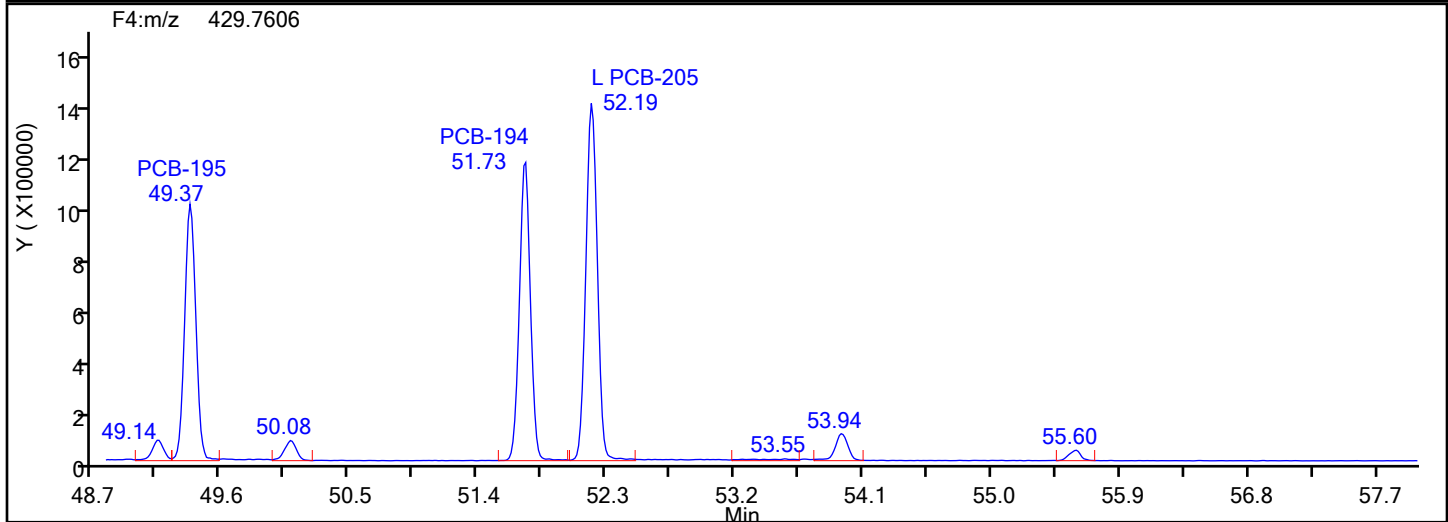
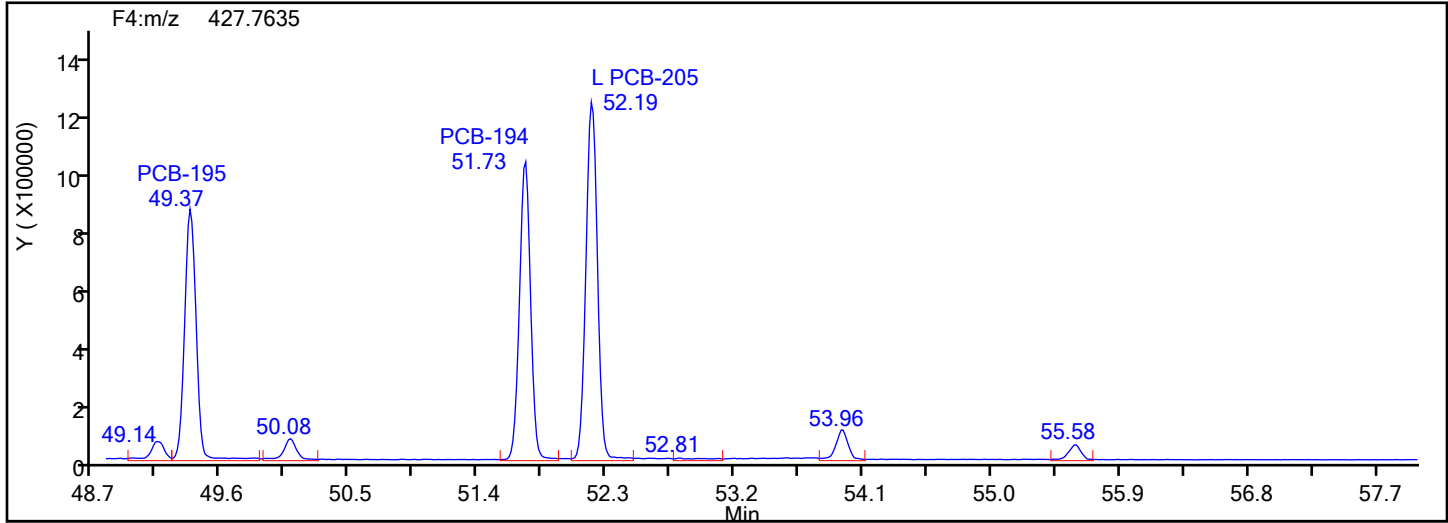
Worklist#: 87130

Sample Line#: 7

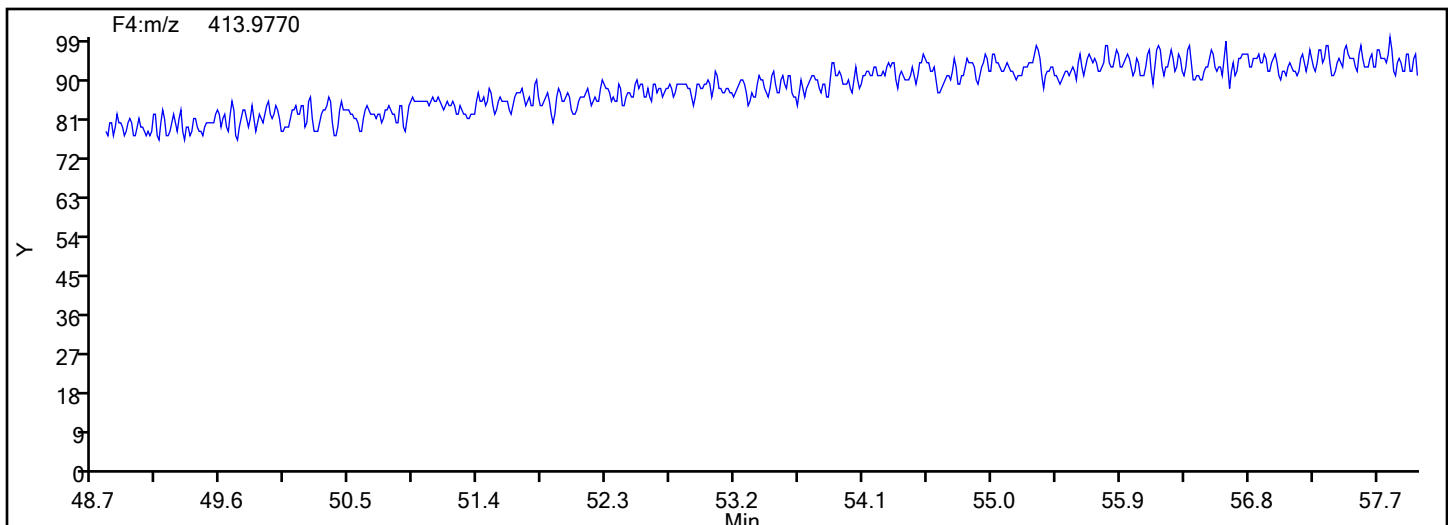
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

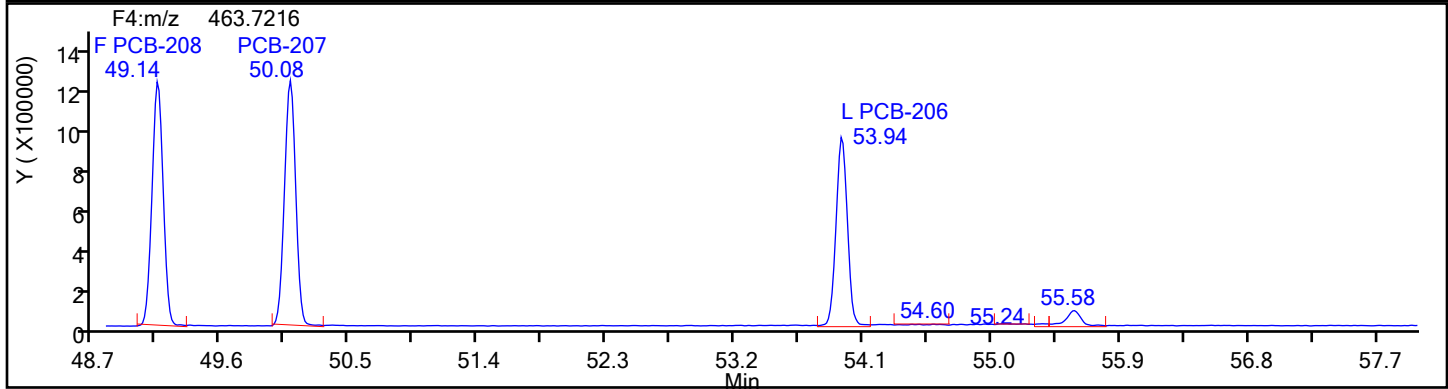
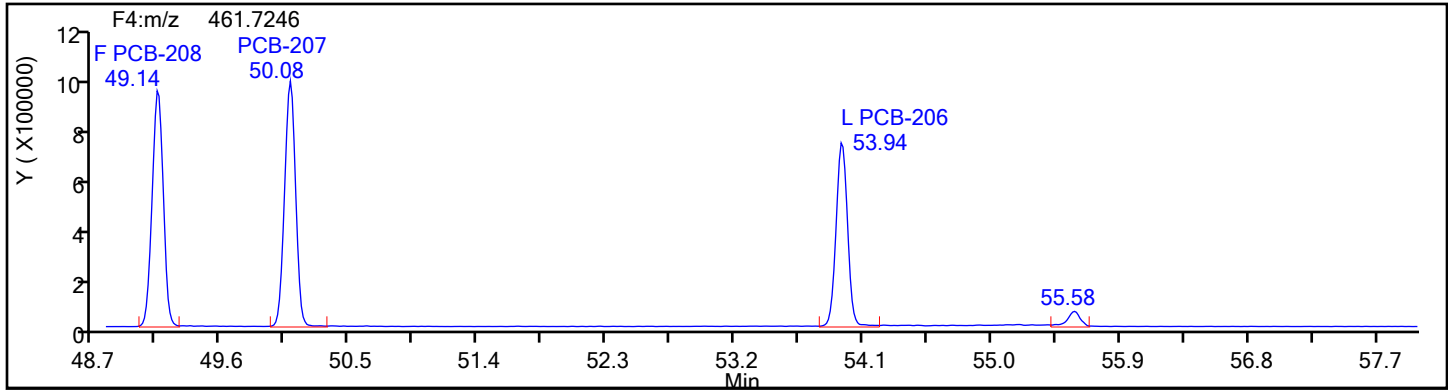


OcPCB F4 Lock Mass

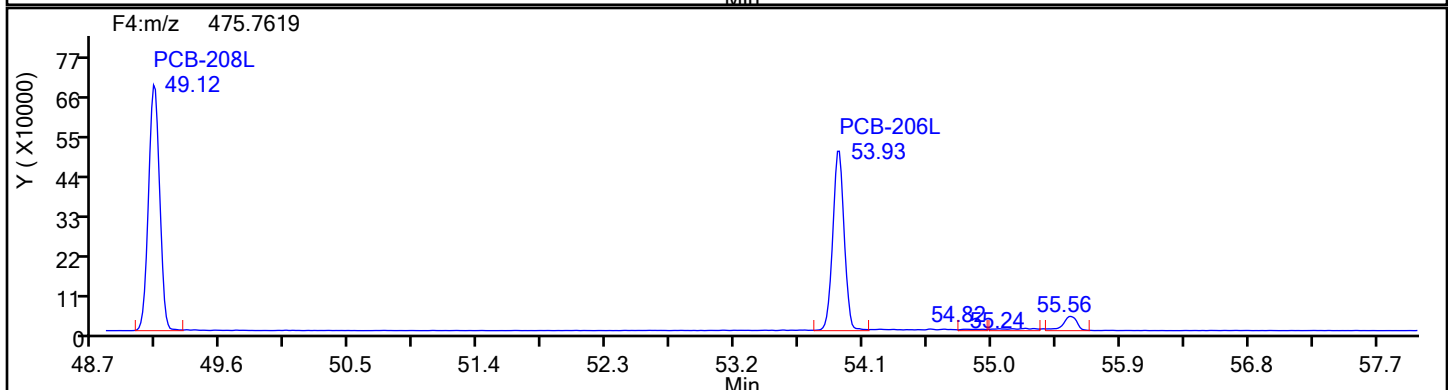
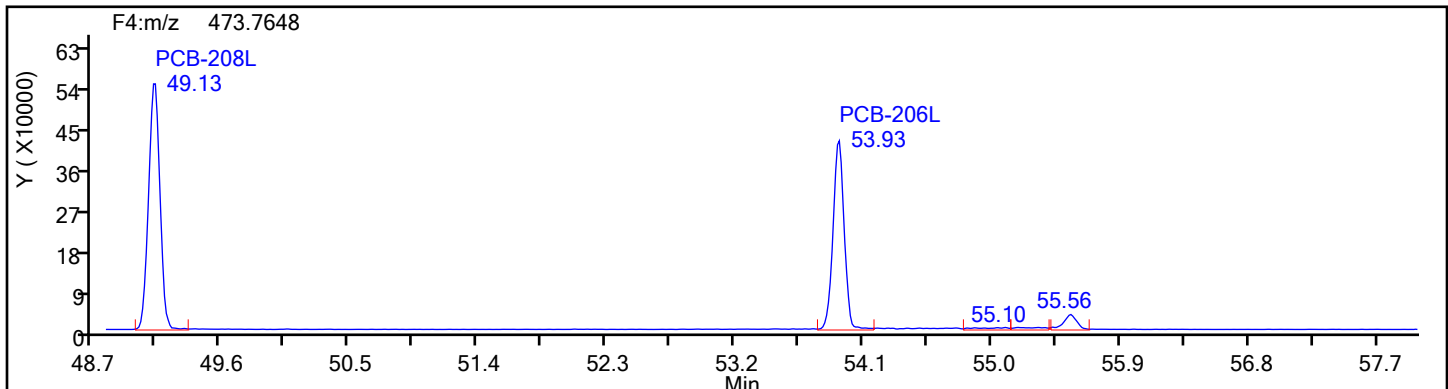


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

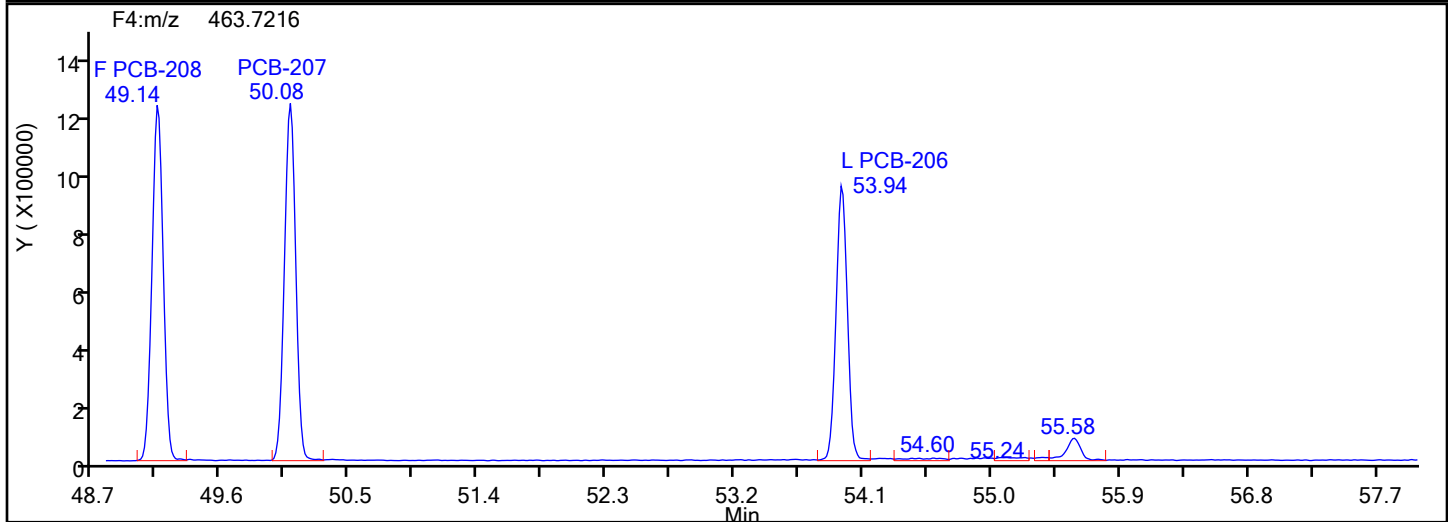
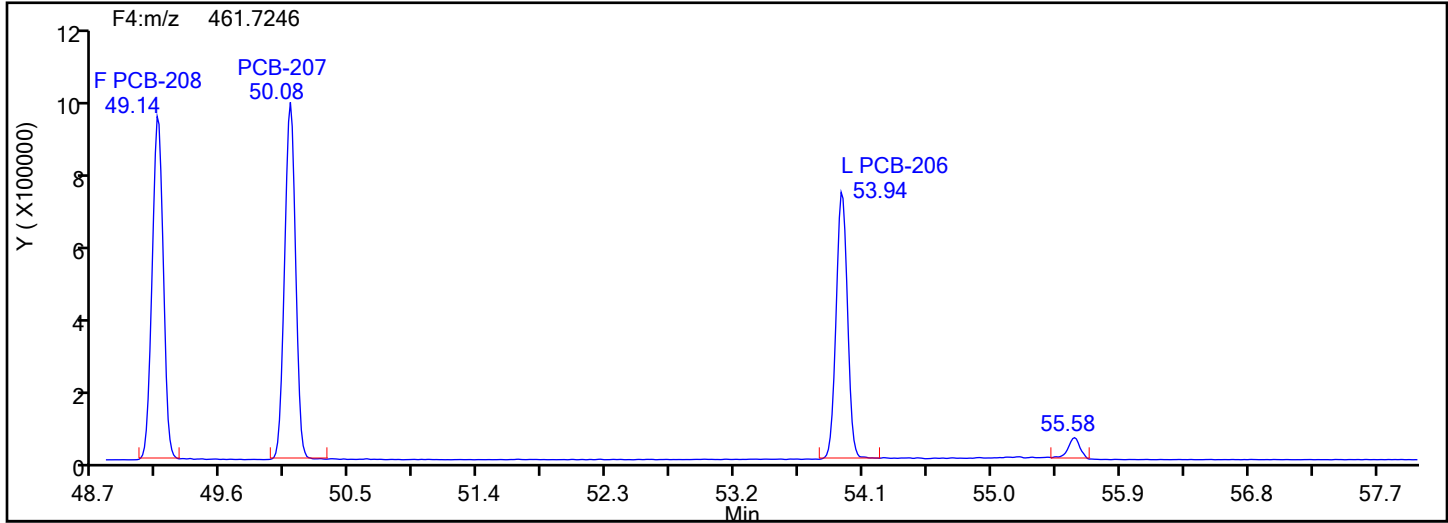
Worklist#: 87130

Sample Line#: 7

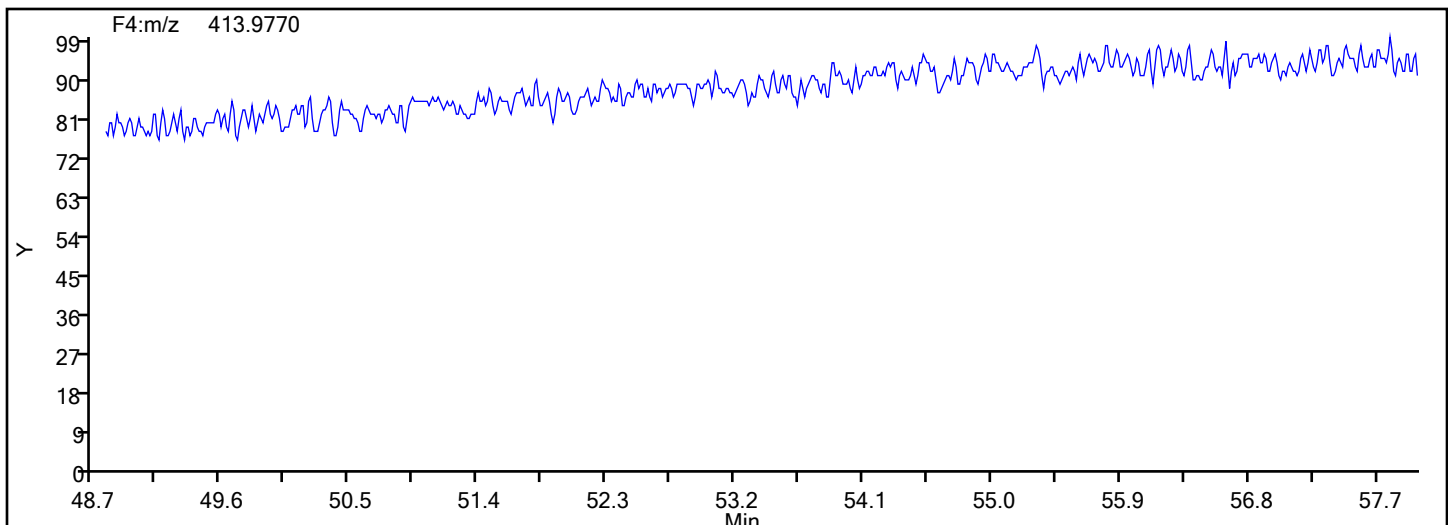
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

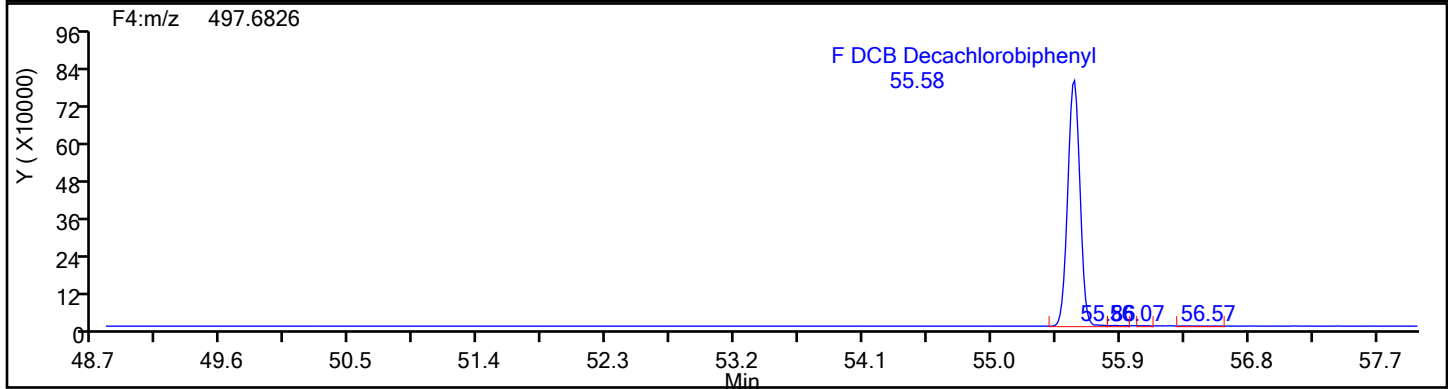
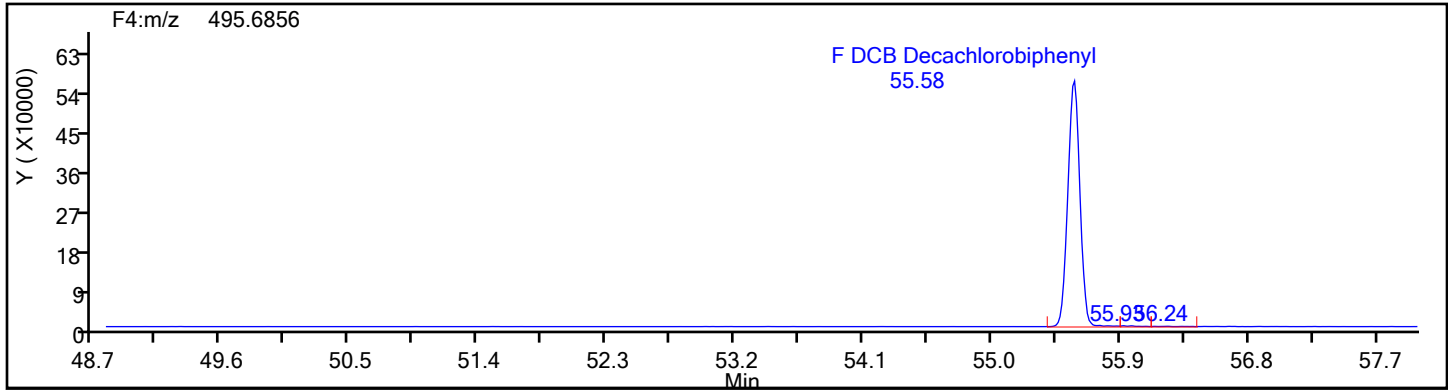


NoPCB F4 Lock Mass

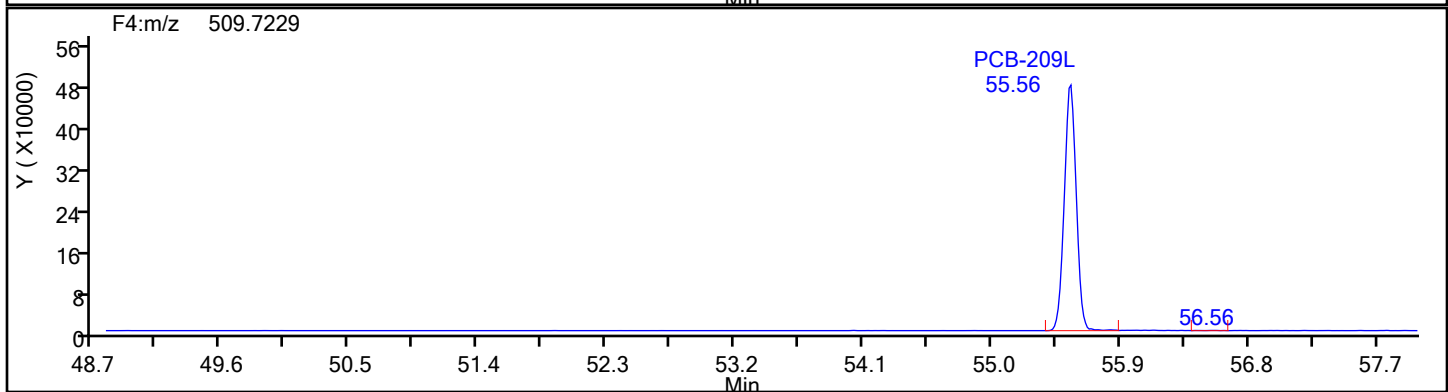
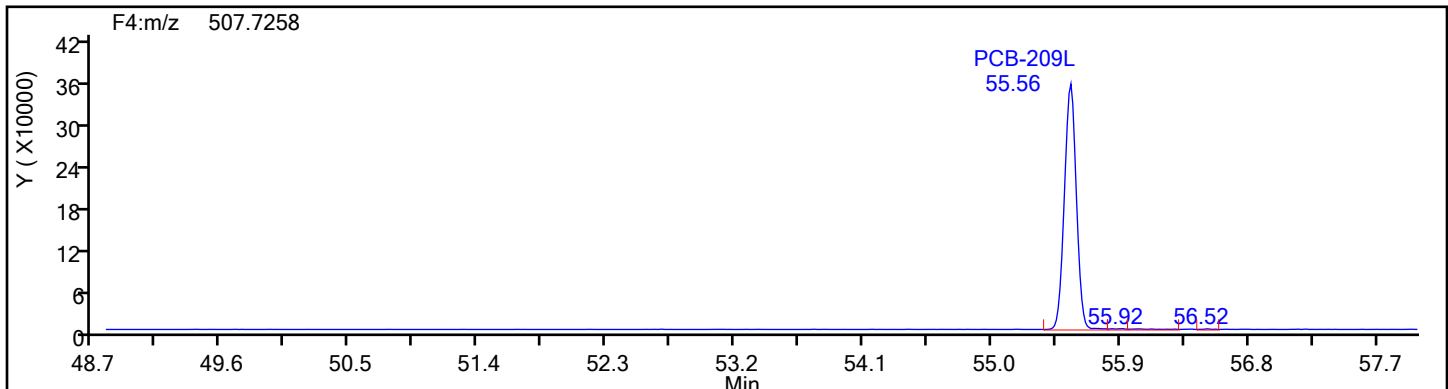


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 87130 Sample Line#: 7
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

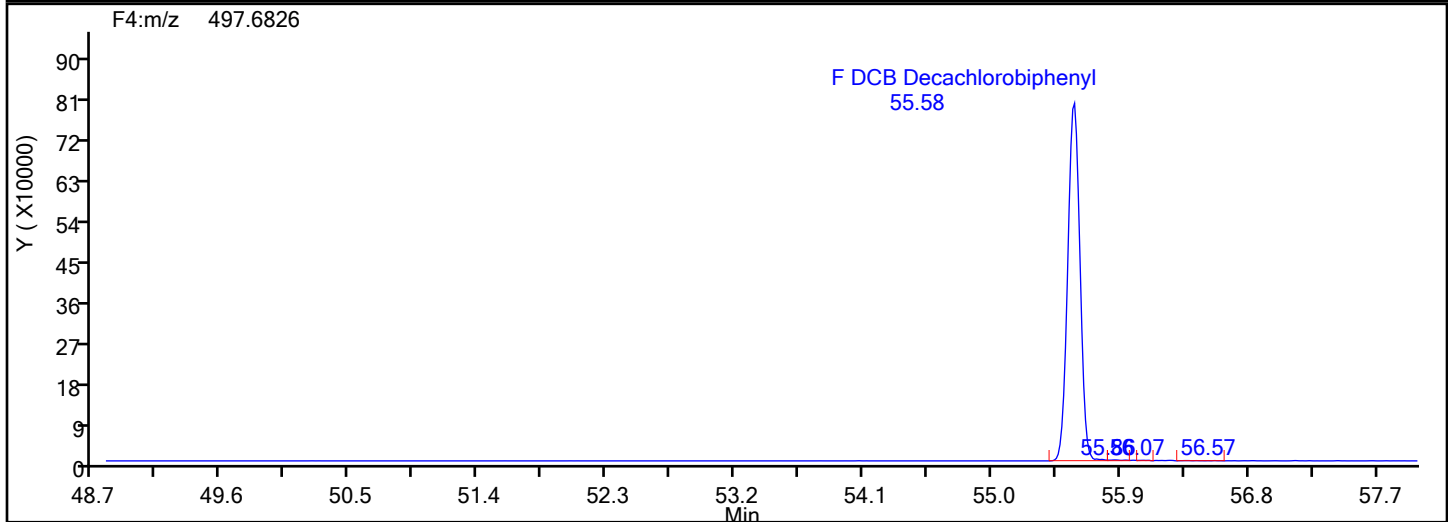
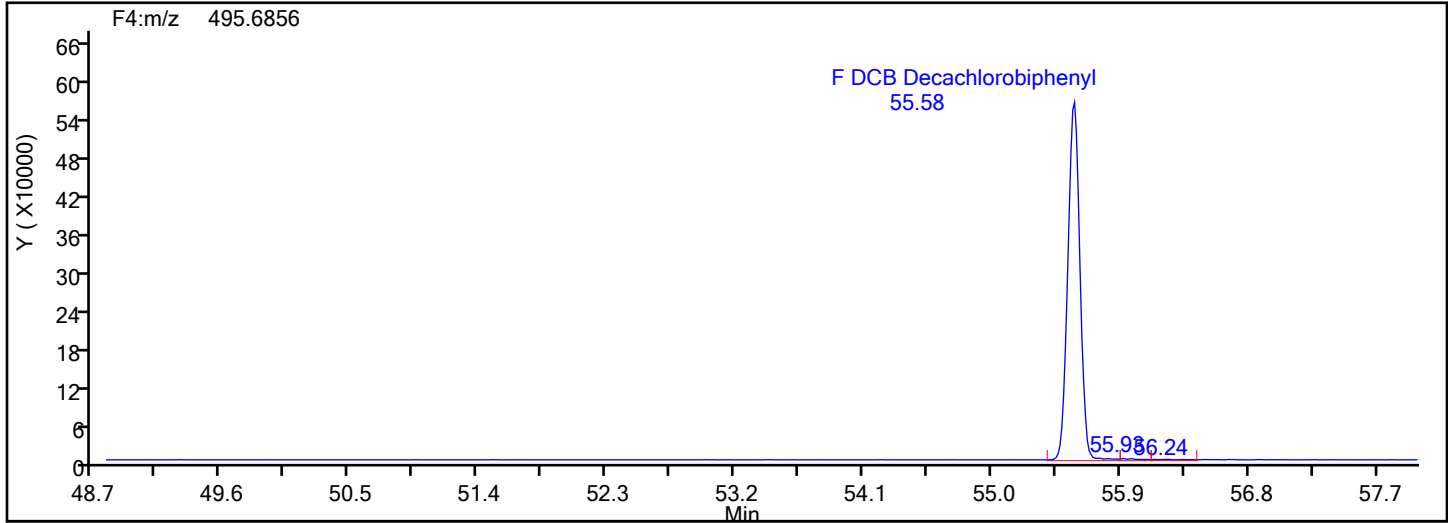
Worklist#: 87130

Sample Line#: 7

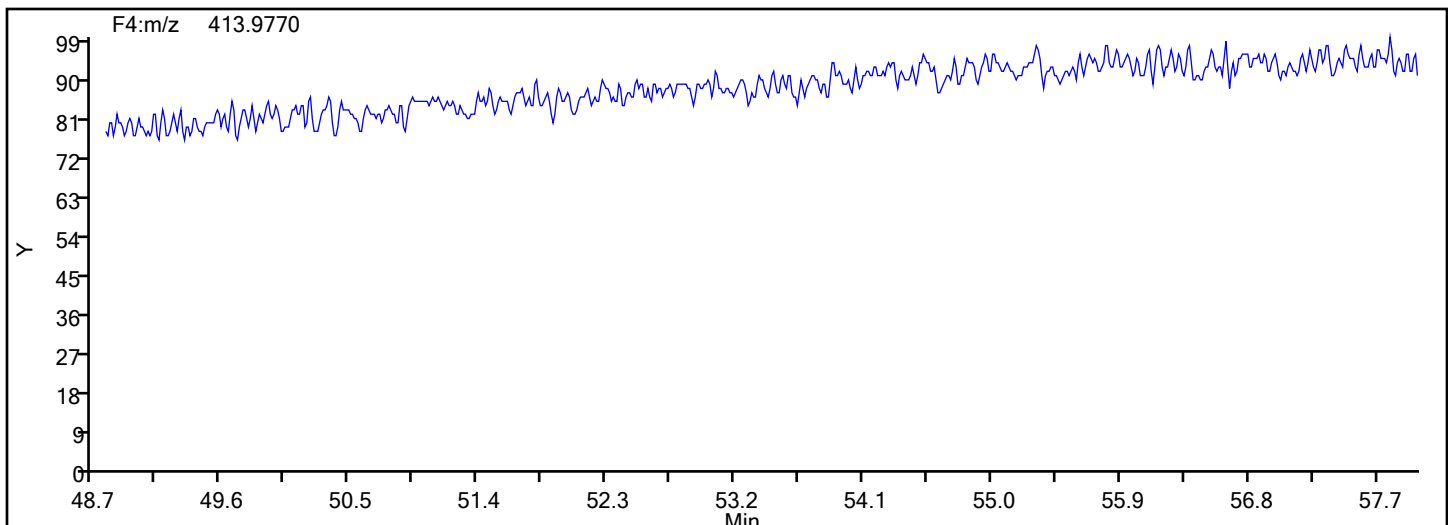
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.216		49.9	50.0	-0.2	25.0
PCB-2	AveID	1.181	1.186		50.2	50.0	0.5	25.0
PCB-3	AveID	1.221	1.242		50.9	50.0	1.8	25.0
PCB-4	AveID	1.282	1.298		50.6	50.0	1.2	25.0
PCB-10	AveID	1.315	1.399		53.2	50.0	6.4	25.0
PCB-9	AveID	1.422	1.469		51.7	50.0	3.3	25.0
PCB-7	AveID	1.413	1.433		50.7	50.0	1.4	25.0
PCB-6	AveID	1.542	1.589		51.5	50.0	3.0	25.0
PCB-5	AveID	1.339	1.365		51.0	50.0	1.9	25.0
PCB-8	AveID	1.589	1.653		52.0	50.0	4.1	25.0
PCB-19	AveID	1.281	1.263		49.3	50.0	-1.4	25.0
PCB-14	AveID	1.402	1.405		50.1	50.0	0.2	25.0
PCB-18	AveID	1.765	1.776		101	100	0.6	25.0
PCB-18/30	AveID	1.765	1.776		101	100	0.6	25.0
PCB-30	AveID	1.765	1.776		101	100	0.6	25.0
PCB-11	AveID	1.295	1.355		52.3	50.0	4.6	25.0
PCB-17	AveID	1.243	1.243		50.0	50.0	-0.0	25.0
PCB-12	AveID	1.336	1.365		102	100	2.2	25.0
PCB-12/13	AveID	1.336	1.365		102	100	2.2	25.0
PCB-13	AveID	1.336	1.365		102	100	2.2	25.0
PCB-27	AveID	1.833	1.891		51.6	50.0	3.2	25.0
PCB-24	AveID	1.678	1.716		51.2	50.0	2.3	25.0
PCB-16	AveID	1.129	1.160		51.4	50.0	2.8	25.0
PCB-15	AveID	1.290	1.341		52.0	50.0	3.9	25.0
PCB-54	AveID	1.273	1.310		51.4	50.0	2.9	25.0
PCB-32	AveID	1.832	1.884		51.4	50.0	2.8	25.0
PCB-34	AveID	1.128	1.135		50.3	50.0	0.7	25.0
PCB-23	AveID	1.081	1.098		50.8	50.0	1.6	25.0
PCB-26	AveID	1.125	1.133		101	100	0.7	25.0
PCB-26/29	AveID	1.125	1.133		101	100	0.7	25.0
PCB-29	AveID	1.125	1.133		101	100	0.7	25.0
PCB-25	AveID	1.273	1.326		52.1	50.0	4.1	25.0
PCB-50	AveID	0.8578	0.7929		92.4	100	-7.6	25.0
PCB-50/53	AveID	0.8578	0.7929		92.4	100	-7.6	25.0
PCB-53	AveID	0.8578	0.7929		92.4	100	-7.6	25.0
PCB-31	AveID	1.153	1.168		50.7	50.0	1.3	25.0
PCB-20	AveID	1.172	1.178		101	100	0.5	25.0
PCB-20/28	AveID	1.172	1.178		101	100	0.5	25.0
PCB-28	AveID	1.172	1.178		101	100	0.5	25.0
PCB-21	AveID	1.075	1.108		103	100	3.2	25.0
PCB-21/33	AveID	1.075	1.108		103	100	3.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.108		103	100	3.2	25.0
PCB-45	AveID	0.8264	0.7706		93.3	100	-6.8	25.0
PCB-45/51	AveID	0.8264	0.7706		93.3	100	-6.8	25.0
PCB-51	AveID	0.8264	0.7706		93.3	100	-6.8	25.0
PCB-46	AveID	0.7101	0.6460		45.5	50.0	-9.0	25.0
PCB-22	AveID	1.193	1.230		51.5	50.0	3.1	25.0
PCB-52	AveID	0.9194	0.9292		50.5	50.0	1.1	25.0
PCB-43	AveID	1.033	1.049		102	100	1.5	25.0
PCB-43/73	AveID	1.033	1.049		102	100	1.5	25.0
PCB-73	AveID	1.033	1.049		102	100	1.5	25.0
PCB-36	AveID	1.107	1.129		51.0	50.0	2.0	25.0
PCB-49	AveID	1.069	1.040		97.3	100	-2.7	25.0
PCB-49/69	AveID	1.069	1.040		97.3	100	-2.7	25.0
PCB-69	AveID	1.069	1.040		97.3	100	-2.7	25.0
PCB-39	AveID	1.158	1.204		52.0	50.0	4.0	25.0
PCB-48	AveID	0.8399	0.8103		48.2	50.0	-3.5	25.0
PCB-104	AveID	1.009	1.017		50.4	50.0	0.8	25.0
PCB-44	AveID	0.9731	0.9378		145	150	-3.6	25.0
PCB-44/47/65	AveID	0.9731	0.9378		145	150	-3.6	25.0
PCB-47	AveID	0.9731	0.9378		145	150	-3.6	25.0
PCB-65	AveID	0.9731	0.9378		145	150	-3.6	25.0
PCB-38	AveID	1.084	1.084		50.0	50.0	-0.0	25.0
PCB-59	AveID	1.185	1.126		143	150	-5.0	25.0
PCB-59/62/75	AveID	1.185	1.126		143	150	-5.0	25.0
PCB-62	AveID	1.185	1.126		143	150	-5.0	25.0
PCB-75	AveID	1.185	1.126		143	150	-5.0	25.0
PCB-96	AveID	1.094	1.077		49.2	50.0	-1.6	25.0
PCB-42	AveID	0.8097	0.8169		50.5	50.0	0.9	25.0
PCB-35	AveID	1.130	1.164		51.5	50.0	3.0	25.0
PCB-40	AveID	0.8863	0.8587		145	150	-3.1	25.0
PCB-40/41/71	AveID	0.8863	0.8587		145	150	-3.1	25.0
PCB-41	AveID	0.8863	0.8587		145	150	-3.1	25.0
PCB-71	AveID	0.8863	0.8587		145	150	-3.1	25.0
PCB-37	AveID	1.144	1.143		50.0	50.0	-0.0	25.0
PCB-64	AveID	1.178	1.132		48.1	50.0	-3.8	25.0
PCB-72	AveID	1.094	1.080		49.4	50.0	-1.3	25.0
PCB-103	AveID	0.8741	0.8780		50.2	50.0	0.4	25.0
PCB-68	AveID	1.253	1.275		50.9	50.0	1.7	25.0
PCB-94	AveID	0.7640	0.7517		49.2	50.0	-1.6	25.0
PCB-57	AveID	1.082	1.119		51.7	50.0	3.4	25.0
PCB-95	AveID	0.8033	0.8278		51.5	50.0	3.1	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.402		52.9	50.0	5.8	25.0
PCB-100	AveID	0.8429	0.8585		102	100	1.9	25.0
PCB-93	AveID	0.8429	0.8585		102	100	1.9	25.0
PCB-93/100	AveID	0.8429	0.8585		102	100	1.9	25.0
PCB-67	AveID	1.423	1.406		49.4	50.0	-1.2	25.0
PCB-102	AveID	0.8262	0.8391		102	100	1.6	25.0
PCB-98	AveID	0.8262	0.8391		102	100	1.6	25.0
PCB-98/102	AveID	0.8262	0.8391		102	100	1.6	25.0
PCB-63	AveID	1.124	1.166		51.9	50.0	3.7	25.0
PCB-88	AveID	0.8013	0.8325		104	100	3.9	25.0
PCB-88/91	AveID	0.8013	0.8325		104	100	3.9	25.0
PCB-91	AveID	0.8013	0.8325		104	100	3.9	25.0
PCB-61	AveID	1.261	1.260		200	200	-0.0	25.0
PCB-61/70/74/76	AveID	1.261	1.260		200	200	-0.0	25.0
PCB-70	AveID	1.261	1.260		200	200	-0.0	25.0
PCB-74	AveID	1.261	1.260		200	200	-0.0	25.0
PCB-76	AveID	1.261	1.260		200	200	-0.0	25.0
PCB-84	AveID	0.7299	0.7247		49.6	50.0	-0.7	25.0
PCB-66	AveID	1.258	1.317		52.3	50.0	4.7	25.0
PCB-55	AveID	1.324	1.375		51.9	50.0	3.9	25.0
PCB-89	AveID	0.7798	0.7714		49.5	50.0	-1.1	25.0
PCB-56	AveID	1.233	1.263		51.2	50.0	2.4	25.0
PCB-121	AveID	1.296	1.330		51.3	50.0	2.6	25.0
PCB-60	AveID	1.123	1.120		49.9	50.0	-0.2	25.0
PCB-92	AveID	0.8546	0.8550		50.0	50.0	0.0	25.0
PCB-80	AveID	1.324	1.338		50.5	50.0	1.1	25.0
PCB-155	AveID	0.9444	0.9917		52.5	50.0	5.0	25.0
PCB-152	AveID	0.9895	0.9933		50.2	50.0	0.4	25.0
PCB-101	AveID	0.9550	0.9342		147	150	-2.2	25.0
PCB-113	AveID	0.9550	0.9342		147	150	-2.2	25.0
PCB-90	AveID	0.9550	0.9342		147	150	-2.2	25.0
PCB-90/101/113	AveID	0.9550	0.9342		147	150	-2.2	25.0
PCB-150	AveID	1.013	1.050		51.8	50.0	3.7	25.0
PCB-136	AveID	1.012	1.024		50.6	50.0	1.2	25.0
PCB-83	AveID	0.8385	0.8570		102	100	2.2	25.0
PCB-83/99	AveID	0.8385	0.8570		102	100	2.2	25.0
PCB-99	AveID	0.8385	0.8570		102	100	2.2	25.0
PCB-112	AveID	1.411	1.408		49.9	50.0	-0.2	25.0
PCB-145	AveID	0.9685	1.028		53.1	50.0	6.2	25.0
PCB-109	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-119	AveID	1.047	1.035		297	300	-1.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-86	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-87	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-97	AveID	1.047	1.035		297	300	-1.2	25.0
PCB-79	AveID	1.437	1.320		46.0	50.0	-8.1	25.0
PCB-78	AveID	1.162	1.205		51.9	50.0	3.7	25.0
PCB-116	AveID	1.041	1.051		152	150	1.0	25.0
PCB-117	AveID	1.041	1.051		152	150	1.0	25.0
PCB-85	AveID	1.041	1.051		152	150	1.0	25.0
PCB-85/116/117	AveID	1.041	1.051		152	150	1.0	25.0
PCB-110	AveID	1.192	1.217		102	100	2.1	25.0
PCB-110/115	AveID	1.192	1.217		102	100	2.1	25.0
PCB-115	AveID	1.192	1.217		102	100	2.1	25.0
PCB-81	AveID	1.080	1.032		47.8	50.0	-4.4	25.0
PCB-148	AveID	0.7603	0.7877		51.8	50.0	3.6	25.0
PCB-82	AveID	0.8303	0.8386		50.5	50.0	1.0	25.0
PCB-77	AveID	1.084	1.050		48.5	50.0	-3.1	25.0
PCB-111	AveID	1.213	1.221		50.4	50.0	0.7	25.0
PCB-135	AveID	0.7256	0.7540		104	100	3.9	25.0
PCB-135/151	AveID	0.7256	0.7540		104	100	3.9	25.0
PCB-151	AveID	0.7256	0.7540		104	100	3.9	25.0
PCB-120	AveID	1.476	1.492		50.6	50.0	1.1	25.0
PCB-154	AveID	0.8129	0.8773		54.0	50.0	7.9	25.0
PCB-144	AveID	0.7852	0.8156		51.9	50.0	3.9	25.0
PCB-147	AveID	0.8950	0.8312		92.9	100	-7.1	25.0
PCB-147/149	AveID	0.8950	0.8312		92.9	100	-7.1	25.0
PCB-149	AveID	0.8950	0.8312		92.9	100	-7.1	25.0
PCB-134	AveID	0.7967	0.7130		89.5	100	-10.5	25.0
PCB-134/143	AveID	0.7967	0.7130		89.5	100	-10.5	25.0
PCB-143	AveID	0.7967	0.7130		89.5	100	-10.5	25.0
PCB-108	AveID	1.141	1.084		95.0	100	-5.0	25.0
PCB-108/124	AveID	1.141	1.084		95.0	100	-5.0	25.0
PCB-124	AveID	1.141	1.084		95.0	100	-5.0	25.0
PCB-139	AveID	0.8769	0.7878		89.8	100	-10.2	25.0
PCB-139/140	AveID	0.8769	0.7878		89.8	100	-10.2	25.0
PCB-140	AveID	0.8769	0.7878		89.8	100	-10.2	25.0
PCB-107	AveID	1.212	1.182		48.8	50.0	-2.5	25.0
PCB-131	AveID	0.7503	0.6712		44.7	50.0	-10.5	25.0
PCB-123	AveID	1.072	0.998		46.6	50.0	-6.9	25.0
PCB-106	AveID	1.084	1.100		50.7	50.0	1.5	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7234		48.2	50.0	-3.6	25.0
PCB-118	AveID	1.206	1.165		48.3	50.0	-3.3	25.0
PCB-132	AveID	0.7489	0.6605		44.1	50.0	-11.8	25.0
PCB-122	AveID	0.9567	0.9574		50.0	50.0	0.0	25.0
PCB-188	AveID	1.135	1.152		50.8	50.0	1.5	25.0
PCB-114	AveID	1.084	1.113		51.4	50.0	2.7	25.0
PCB-133	AveID	0.8096	0.7078		43.7	50.0	-12.6	25.0
PCB-179	AveID	1.428	1.370		48.0	50.0	-4.1	25.0
PCB-165	AveID	1.025	0.9813		47.9	50.0	-4.2	25.0
PCB-105	AveID	1.188	1.209		50.9	50.0	1.8	25.0
PCB-146	AveID	0.9637	0.8763		45.5	50.0	-9.1	25.0
PCB-184	AveID	1.367	1.379		50.4	50.0	0.8	25.0
PCB-161	AveID	1.129	1.040		46.1	50.0	-7.9	25.0
PCB-176	AveID	1.233	1.210		49.1	50.0	-1.9	25.0
PCB-153	AveID	1.094	1.027		93.9	100	-6.1	25.0
PCB-153/168	AveID	1.094	1.027		93.9	100	-6.1	25.0
PCB-168	AveID	1.094	1.027		93.9	100	-6.1	25.0
PCB-141	AveID	0.8755	0.8060		46.0	50.0	-7.9	25.0
PCB-186	AveID	1.474	1.521		51.6	50.0	3.2	25.0
PCB-130	AveID	0.7051	0.6572		46.6	50.0	-6.8	25.0
PCB-127	AveID	1.139	1.161		51.0	50.0	1.9	25.0
PCB-137	AveID	0.7767	0.7463		48.1	50.0	-3.9	25.0
PCB-164	AveID	1.038	1.019		49.1	50.0	-1.9	25.0
PCB-129	AveID	0.9464	0.8910		188	200	-5.8	25.0
PCB-129/138/160/163	AveID	0.9464	0.8910		188	200	-5.8	25.0
PCB-138	AveID	0.9464	0.8910		188	200	-5.8	25.0
PCB-160	AveID	0.9464	0.8910		188	200	-5.8	25.0
PCB-163	AveID	0.9464	0.8910		188	200	-5.8	25.0
PCB-158	AveID	1.311	1.249		47.6	50.0	-4.7	25.0
PCB-178	AveID	0.8946	0.9140		51.1	50.0	2.2	25.0
PCB-175	AveID	0.9524	0.997		52.3	50.0	4.6	25.0
PCB-126	AveID	1.098	1.111		50.6	50.0	1.2	25.0
PCB-128	AveID	0.9829	0.9467		96.3	100	-3.7	25.0
PCB-128/166	AveID	0.9829	0.9467		96.3	100	-3.7	25.0
PCB-166	AveID	0.9829	0.9467		96.3	100	-3.7	25.0
PCB-187	AveID	1.102	1.147		52.0	50.0	4.1	25.0
PCB-182	AveID	0.9247	1.005		54.4	50.0	8.7	25.0
PCB-183	AveID	0.9825	0.9676		98.5	100	-1.5	25.0
PCB-183/185	AveID	0.9825	0.9676		98.5	100	-1.5	25.0
PCB-185	AveID	0.9825	0.9676		98.5	100	-1.5	25.0
PCB-174	AveID	0.9642	1.024		53.1	50.0	6.2	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.330		48.0	50.0	-4.0	25.0
PCB-162	AveID	1.257	1.242		49.4	50.0	-1.2	25.0
PCB-177	AveID	0.9773	1.029		52.7	50.0	5.3	25.0
PCB-202	AveID	1.036	1.096		52.9	50.0	5.9	25.0
PCB-167	AveID	1.116	1.091		48.9	50.0	-2.2	25.0
PCB-181	AveID	0.9505	0.9896		52.1	50.0	4.1	25.0
PCB-171	AveID	0.9336	0.9425		101	100	0.9	25.0
PCB-171/173	AveID	0.9336	0.9425		101	100	0.9	25.0
PCB-173	AveID	0.9336	0.9425		101	100	0.9	25.0
PCB-201	AveID	0.9754	1.019		52.2	50.0	4.4	25.0
PCB-156	AveID	1.110	1.120		101	100	0.9	25.0
PCB-156/157	AveID	1.110	1.120		101	100	0.9	25.0
PCB-157	AveID	1.110	1.120		101	100	0.9	25.0
PCB-204	AveID	1.049	1.083		51.6	50.0	3.3	25.0
PCB-197	AveID	1.146	1.154		50.4	50.0	0.7	25.0
PCB-200	AveID	1.007	1.028		51.1	50.0	2.1	25.0
PCB-172	AveID	0.8519	0.9133		53.6	50.0	7.2	25.0
PCB-192	AveID	1.346	1.541		57.2	50.0	14.5	25.0
PCB-180	AveID	1.168	1.256		108	100	7.6	25.0
PCB-180/193	AveID	1.168	1.256		108	100	7.6	25.0
PCB-193	AveID	1.168	1.256		108	100	7.6	25.0
PCB-191	AveID	1.289	1.446		56.1	50.0	12.2	25.0
PCB-170	AveID	1.187	1.175		49.5	50.0	-1.0	25.0
PCB-190	AveID	1.332	1.511		56.7	50.0	13.4	25.0
PCB-169	AveID	1.163	1.144		49.2	50.0	-1.6	25.0
PCB-198	AveID	0.8698	0.8900		102	100	2.3	25.0
PCB-198/199	AveID	0.8698	0.8900		102	100	2.3	25.0
PCB-199	AveID	0.8698	0.8900		102	100	2.3	25.0
PCB-196	AveID	0.7806	0.8113		52.0	50.0	3.9	25.0
PCB-203	AveID	0.9292	1.006		54.1	50.0	8.3	25.0
PCB-208	AveID	1.137	1.138		50.0	50.0	0.0	25.0
PCB-195	AveID	0.8263	0.8087		48.9	50.0	-2.1	25.0
PCB-189	AveID	0.9633	1.020		52.9	50.0	5.9	25.0
PCB-207	AveID	1.376	1.300		47.2	50.0	-5.5	25.0
PCB-194	AveID	0.9735	0.9317		47.9	50.0	-4.3	25.0
PCB-205	AveID	1.088	1.075		49.4	50.0	-1.2	25.0
PCB-206	AveID	1.335	1.254		47.0	50.0	-6.1	25.0
PCB-209	AveID	1.100	1.105		50.2	50.0	0.4	25.0
PCB-1L	Ave	1.611	1.644		102	100	2.1	30.0
PCB-3L	Ave	1.589	1.543		97.1	100	-2.9	30.0
PCB-4L	Ave	0.6475	0.6462		99.8	100	-0.2	30.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-88747/1 Calibration Date: 07/15/2024 12:43

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240715c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6156		97.9	100	-2.1	30.0
PCB-15L	Ave	1.079	1.015		94.1	100	-5.9	30.0
PCB-54L	Ave	0.5562	0.6099		110	100	9.6	30.0
PCB-104L	Ave	1.216	1.249		103	100	2.7	30.0
PCB-37L	Ave	0.8749	0.8863		101	100	1.3	30.0
PCB-155L	Ave	1.085	1.093		101	100	0.8	30.0
PCB-81L	Ave	1.247	1.209		97.0	100	-3.0	30.0
PCB-77L	Ave	1.321	1.275		96.5	100	-3.5	30.0
PCB-123L	Ave	0.9731	0.9599		98.6	100	-1.4	30.0
PCB-118L	Ave	1.010	1.014		100	100	0.3	30.0
PCB-188L	Ave	1.313	1.225		93.3	100	-6.7	30.0
PCB-114L	Ave	0.9949	0.9697		97.5	100	-2.5	30.0
PCB-105L	Ave	0.9514	0.9422		99.0	100	-1.0	30.0
PCB-126L	Ave	0.9439	0.9733		103	100	3.1	30.0
PCB-202L	Ave	0.9818	0.9795		99.8	100	-0.2	30.0
PCB-167L	Ave	1.257	1.300		103	100	3.4	30.0
PCB-156L	Ave	1.211	1.262		208	200	4.2	30.0
PCB-156L/157L	Ave	1.211	1.262		208	200	4.2	30.0
PCB-157L	Ave	1.211	1.262		208	200	4.2	30.0
PCB-170L	Ave	0.8362	0.8384		100	100	0.3	30.0
PCB-169L	Ave	1.244	1.345		108	100	8.1	30.0
PCB-208L	Ave	0.9576	0.9865		103	100	3.0	30.0
PCB-189L	Ave	1.441	1.422		98.6	100	-1.4	30.0
PCB-205L	Ave	1.179	1.212		103	100	2.9	30.0
PCB-206L	Ave	0.6947	0.7319		105	100	5.3	30.0
PCB-209L	Ave	0.6669	0.7593		114	100	13.9	30.0
PCB-8L	AveID	1.207	1.148		47.6	50.0	-4.9	25.0
PCB-28L	Ave	1.049	0.9830		46.8	50.0	-6.3	30.0
PCB-95L	AveID	0.7218	0.7453		51.6	50.0	3.3	25.0
PCB-79L	AveID	1.002	0.9705		48.4	50.0	-3.1	25.0
PCB-111L	Ave	1.370	1.294		47.2	50.0	-5.6	30.0
PCB-153L	AveID	0.9169	0.7681		41.9	50.0	-16.2	25.0
PCB-178L	Ave	1.031	0.9173		44.5	50.0	-11.1	30.0

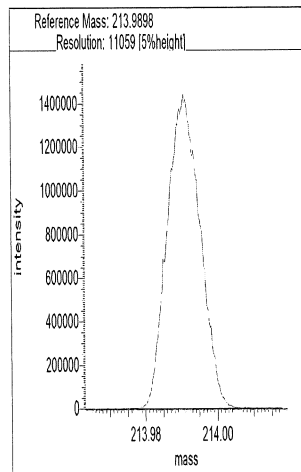
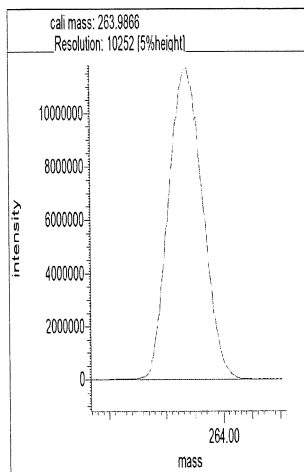
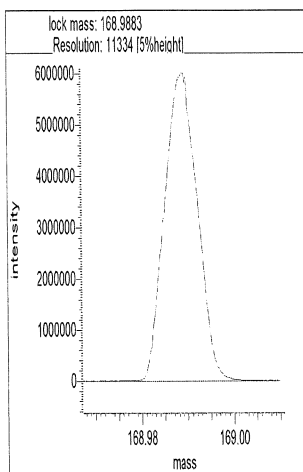
Resolution Check Report (DFS SN: 3190)

Date: 15 Jul 2024 12:27
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

-d2240715r3

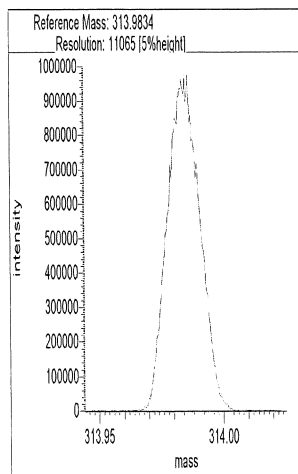
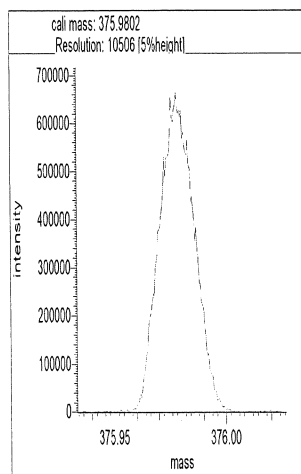
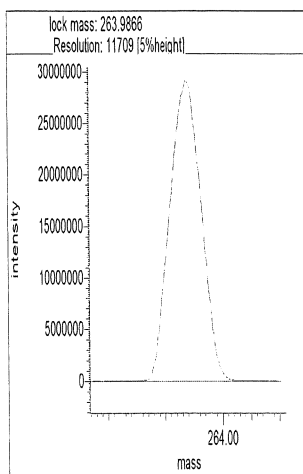
Segment 1

Lock mass 168.9883 [m/z] Resolution: 11334 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 10252 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 11059 [5%height]



Segment 2

Lock mass 263.9866 [m/z] Resolution: 11709 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 10506 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 11065 [5%height]

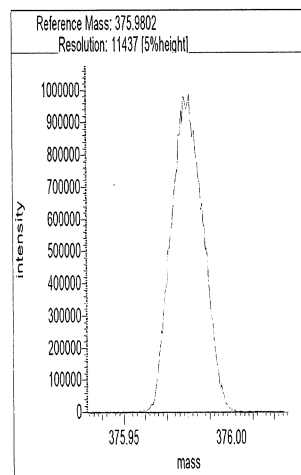
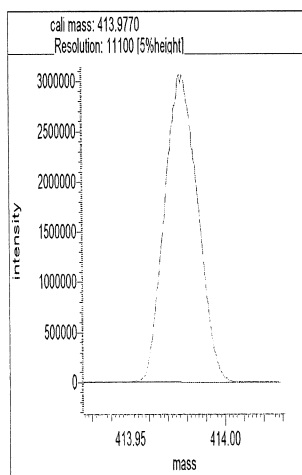
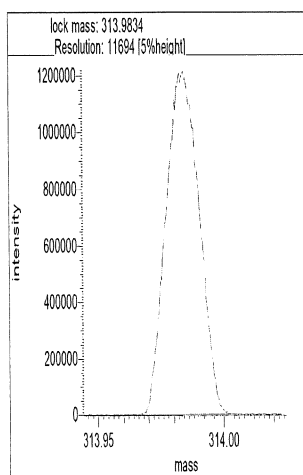


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11694 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11100 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11437 [5%height]

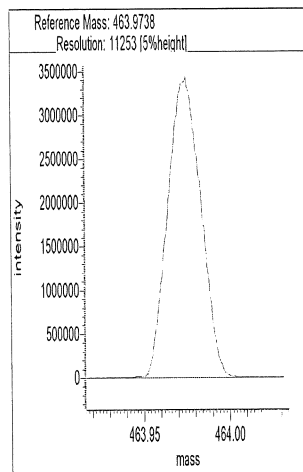
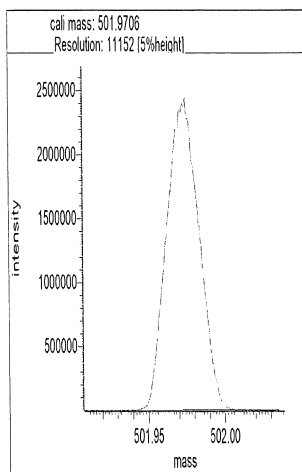
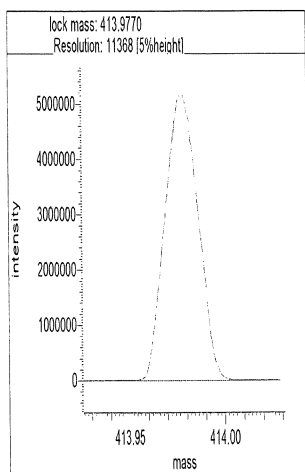


Segment 4

Lock mass 413.9770 [m/z] Resolution: 11368 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11152 [5%height]

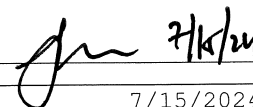
Ref. mass 463.9738 [m/z] Resolution: 11253 [5%height]



Reports

12:37:16: Peak matching procedure started
12:37:16:
12:37:17: Reference mass: 168.98827
12:37:17: Sample mass: 214.0
12:37:18:
12:37:18: Finding reference mass
12:37:19: Finding sample mass
12:37:19:
12:37:25: [1] 213.9905 amu, mean: 213.9905
12:37:29: [2] 213.9906 amu, mean: 213.9905 SD: 0.08 mmu or: 0.35 ppm
12:37:32: [3] 213.9904 amu, mean: 213.9905 SD: 0.11 mmu or: 0.50 ppm
12:37:35: [4] 213.9900 amu, mean: 213.9904 SD: 0.24 mmu or: 1.11 ppm
12:37:35:
12:37:35: Stop requested. Please wait for procedure to finish.
12:37:35:
12:37:38:
12:37:39: Peakmatching stopped

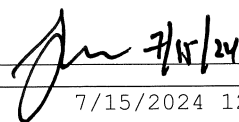
Signature



Reports

12:37:45: Peak matching procedure started
12:37:45:
12:37:46: Reference mass: 213.98975
12:37:46: Sample mass: 264.0
12:37:47:
12:37:47: Finding reference mass
12:37:48: Finding sample mass
12:37:49:
12:37:54: [1] 263.9874 amu, mean: 263.9874
12:37:58: [2] 263.9874 amu, mean: 263.9874 SD: 0.04 mmu or: 0.16 ppm
12:38:01: [3] 263.9875 amu, mean: 263.9874 SD: 0.09 mmu or: 0.35 ppm
12:38:04: [4] 263.9874 amu, mean: 263.9874 SD: 0.07 mmu or: 0.28 ppm
12:38:04:
12:38:04: Stop requested. Please wait for procedure to finish.
12:38:04:
12:38:07:
12:38:08: Peakmatching stopped

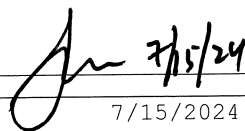
Signature _____

Handwritten signature in black ink, appearing to be "Jm 7/15/24".

Reports

12:38:12: Peak matching procedure started
12:38:13:
12:38:13: Reference mass: 263.98656
12:38:14: Sample mass: 314.0
12:38:14:
12:38:15: Finding reference mass
12:38:16: Finding sample mass
12:38:16:
12:38:22: [1] 313.9845 amu, mean: 313.9845
12:38:25: [2] 313.9846 amu, mean: 313.9846 SD: 0.08 mmu or: 0.24 ppm
12:38:28: [3] 313.9844 amu, mean: 313.9845 SD: 0.10 mmu or: 0.32 ppm
12:38:31: [4] 313.9843 amu, mean: 313.9845 SD: 0.13 mmu or: 0.42 ppm
12:38:32:
12:38:32: Stop requested. Please wait for procedure to finish.
12:38:32:
12:38:35:
12:38:35: Peakmatching stopped

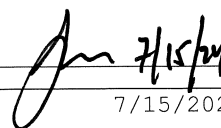
Signature

Handwritten signature in black ink, appearing to be "Jm 7/5/24".

Reports

12:38:39: Peak matching procedure started
12:38:40:
12:38:40: Reference mass: 313.98336
12:38:41: Sample mass: 376.0
12:38:41:
12:38:42: Finding reference mass
12:38:43: Finding sample mass
12:38:43:
12:38:49: [1] 375.9814 amu, mean: 375.9814
12:38:52: [2] 375.9813 amu, mean: 375.9814 SD: 0.06 mmu or: 0.16 ppm
12:38:56: [3] 375.9815 amu, mean: 375.9814 SD: 0.08 mmu or: 0.20 ppm
12:38:59: [4] 375.9810 amu, mean: 375.9813 SD: 0.22 mmu or: 0.59 ppm
12:38:59:
12:38:59: Stop requested. Please wait for procedure to finish.
12:38:59:
12:39:02:
12:39:03: Peakmatching stopped

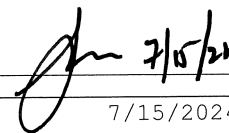
Signature



Reports

12:38:39: Peak matching procedure started
12:38:40:
12:38:40: Reference mass: 313.98336
12:38:41: Sample mass: 376.0
12:38:41:
12:38:42: Finding reference mass
12:38:43: Finding sample mass
12:38:43:
12:38:49: [1] 375.9814 amu, mean: 375.9814
12:38:52: [2] 375.9813 amu, mean: 375.9814 SD: 0.06 mmu or: 0.16 ppm
12:38:56: [3] 375.9815 amu, mean: 375.9814 SD: 0.08 mmu or: 0.20 ppm
12:38:59: [4] 375.9810 amu, mean: 375.9813 SD: 0.22 mmu or: 0.59 ppm
12:38:59:
12:38:59: Stop requested. Please wait for procedure to finish.
12:38:59:
12:39:02:
12:39:03: Peakmatching stopped

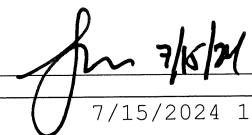
Signature _____

Handwritten signature in black ink, appearing to be "Jm 7/15/24".

Reports

12:39:08: Peak matching procedure started
12:39:09:
12:39:09: Reference mass: 375.98017
12:39:10: Sample mass: 414.0
12:39:10:
12:39:11: Finding reference mass
12:39:12: Finding sample mass
12:39:12:
12:39:18: [1] 413.9775 amu, mean: 413.9775
12:39:22: [2] 413.9783 amu, mean: 413.9779 SD: 0.52 mmu or: 1.25 ppm
12:39:25: [3] 413.9779 amu, mean: 413.9779 SD: 0.37 mmu or: 0.88 ppm
12:39:28: [4] 413.9778 amu, mean: 413.9779 SD: 0.30 mmu or: 0.73 ppm
12:39:28:
12:39:28: Stop requested. Please wait for procedure to finish.
12:39:28:
12:39:31:
12:39:31: Peakmatching stopped

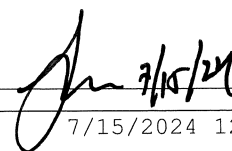
Signature _____

Handwritten signature in black ink, appearing to be 'Jm' followed by the date '7/15/24'.

Reports

12:39:36: Peak matching procedure started
12:39:36:
12:39:37: Reference mass: 413.97698
12:39:37: Sample mass: 464.0
12:39:38:
12:39:38: Finding reference mass
12:39:39: Finding sample mass
12:39:40:
12:39:46: [1] 463.9740 amu, mean: 463.9740
12:39:49: [2] 463.9736 amu, mean: 463.9738 SD: 0.28 mmu or: 0.60 ppm
12:39:52: [3] 463.9737 amu, mean: 463.9738 SD: 0.20 mmu or: 0.44 ppm
12:39:55: [4] 463.9741 amu, mean: 463.9739 SD: 0.24 mmu or: 0.52 ppm
12:39:56:
12:39:56: Stop requested. Please wait for procedure to finish.
12:39:56:
12:39:58:
12:39:59: Peakmatching stopped

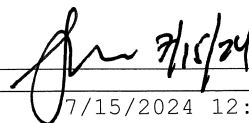
Signature _____

Handwritten signature in black ink, appearing to be "Jm 7/15/24".

Reports

12:40:04: Peak matching procedure started
12:40:05:
12:40:06: Reference mass: 463.97378
12:40:06: Sample mass: 502.0
12:40:06:
12:40:07: Finding reference mass
12:40:08: Finding sample mass
12:40:08:
12:40:14: [1] 501.9714 amu, mean: 501.9714
12:40:18: [2] 501.9700 amu, mean: 501.9707 SD: 0.95 mmu or: 1.89 ppm
12:40:20: [3] 501.9703 amu, mean: 501.9706 SD: 0.71 mmu or: 1.40 ppm
12:40:24: [4] 501.9697 amu, mean: 501.9704 SD: 0.71 mmu or: 1.41 ppm
12:40:24:
12:40:24: Stop requested. Please wait for procedure to finish.
12:40:24:
12:40:27:
12:40:28: Peakmatching stopped

Signature _____

Handwritten signature in black ink, appearing to be "Jm 7/15/24".

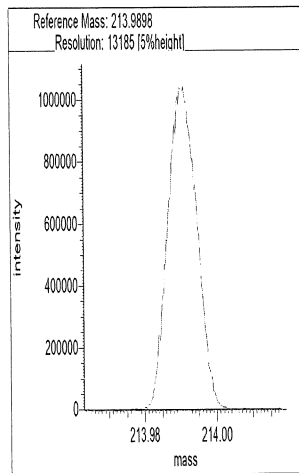
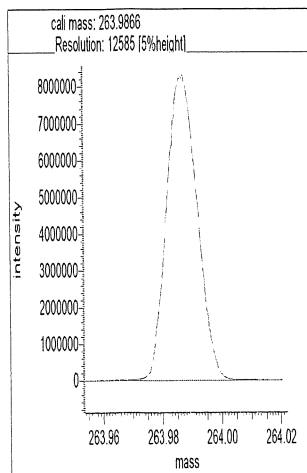
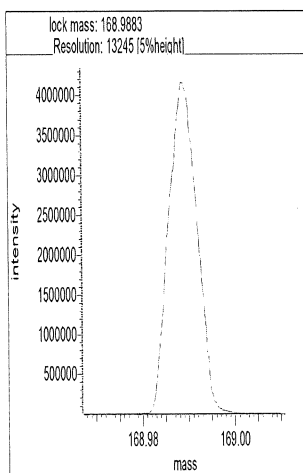
Resolution Check Report (DFS SN: 3190)

Date: 15 Jul 2024 23:40
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

d2240715r4

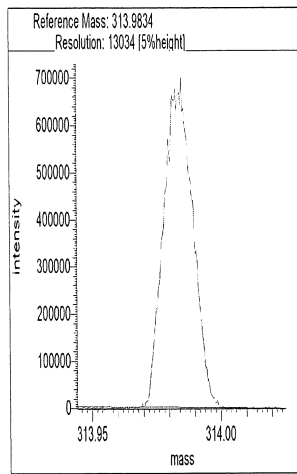
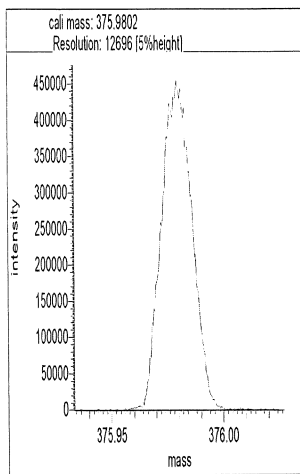
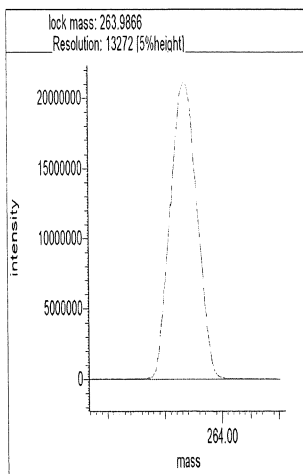
Segment 1

Lock mass 168.9883 [m/z] Resolution: 13245 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 12585 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 13185 [5%height]



Segment 2

Lock mass 263.9866 [m/z] Resolution: 13272 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 12696 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 13034 [5%height]

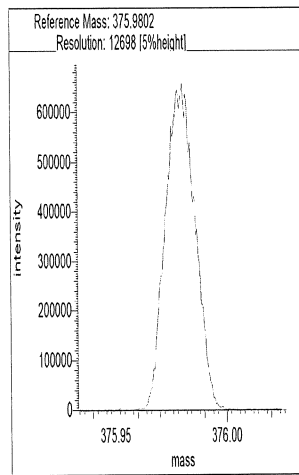
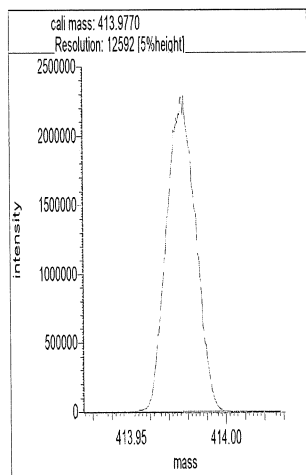
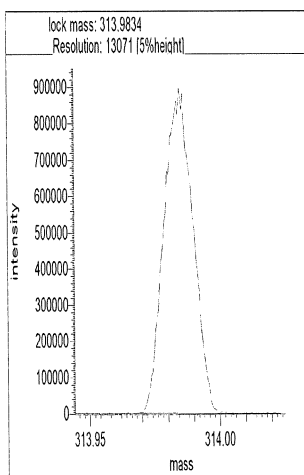


Segment 3

Lock mass 313.9834 [m/z] Resolution: 13071 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 12592 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 12698 [5%height]

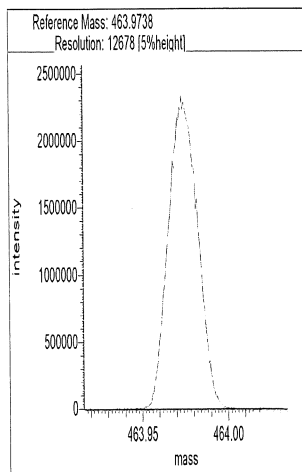
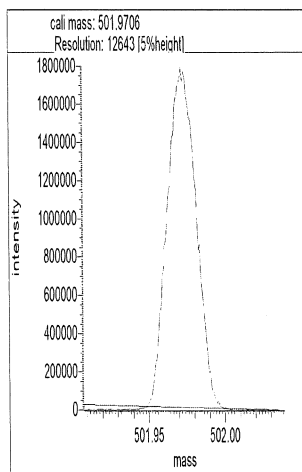
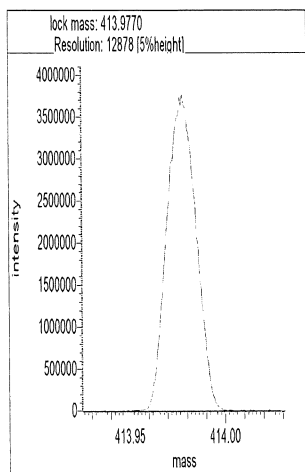


Segment 4

Lock mass 413.9770 [m/z] Resolution: 12878 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12643 [5%height]


Ref. mass 463.9738 [m/z] Resolution: 12678 [5%height]



Reports

23:48:40: Peak matching procedure started
23:48:40:
23:48:41: Reference mass: 168.98827
23:48:41: Sample mass: 214.0
23:48:42:
23:48:42: Finding reference mass
23:48:43: Finding sample mass
23:48:44:
23:48:50: [1] 213.9905 amu, mean: 213.9905
23:48:53: [2] 213.9905 amu, mean: 213.9905 SD: 0.00 mmu or: 0.00 ppm
23:48:56: [3] 213.9905 amu, mean: 213.9905 SD: 0.03 mmu or: 0.14 ppm
23:48:59: [4] 213.9904 amu, mean: 213.9905 SD: 0.04 mmu or: 0.20 ppm
23:49:00:
23:49:00: Stop requested. Please wait for procedure to finish.
23:49:00:
23:49:03:
23:49:03: Peakmatching stopped


Signature

 7-15-24

Reports

23:49:27: Peak matching procedure started
23:49:27:
23:49:28: Reference mass: 213.98975
23:49:28: Sample mass: 264.0
23:49:29:
23:49:29: Finding reference mass
23:49:30: Finding sample mass
23:49:31:
23:49:36: [1] 263.9873 amu, mean: 263.9873
23:49:39: [2] 263.9871 amu, mean: 263.9872 SD: 0.14 mmu or: 0.52 ppm
23:49:43: [3] 263.9875 amu, mean: 263.9873 SD: 0.20 mmu or: 0.75 ppm
23:49:46: [4] 263.9872 amu, mean: 263.9873 SD: 0.18 mmu or: 0.67 ppm
23:49:46:
23:49:46: Stop requested. Please wait for procedure to finish.
23:49:46:
23:49:49:
23:49:50: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:10: Peak matching procedure started
23:50:10:
23:50:11: Reference mass: 263.98656
23:50:11: Sample mass: 314.0
23:50:12:
23:50:12: Finding reference mass
23:50:13: Finding sample mass
23:50:14:
23:50:20: [1] 313.9848 amu, mean: 313.9848
23:50:23: [2] 313.9847 amu, mean: 313.9847 SD: 0.06 mmu or: 0.19 ppm
23:50:26: [3] 313.9848 amu, mean: 313.9847 SD: 0.05 mmu or: 0.15 ppm
23:50:29: [4] 313.9847 amu, mean: 313.9847 SD: 0.05 mmu or: 0.15 ppm
23:50:30:
23:50:30: Stop requested. Please wait for procedure to finish.
23:50:30:
23:50:32:
23:50:33: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:55: Peak matching procedure started
23:50:55:
23:50:56: Reference mass: 313.98336
23:50:56: Sample mass: 376.0
23:50:57:
23:50:57: Finding reference mass
23:50:58: Finding sample mass
23:50:59:
23:51:04: [1] 375.9806 amu, mean: 375.9806
23:51:08: [2] 375.9814 amu, mean: 375.9810 SD: 0.54 mmu or: 1.44 ppm
23:51:11: [3] 375.9817 amu, mean: 375.9812 SD: 0.55 mmu or: 1.45 ppm
23:51:14: [4] 375.9815 amu, mean: 375.9813 SD: 0.47 mmu or: 1.25 ppm
23:51:15:
23:51:15: Stop requested. Please wait for procedure to finish.
23:51:15:
23:51:17:
23:51:18: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:55: Peak matching procedure started
23:50:55:
23:50:56: Reference mass: 313.98336
23:50:56: Sample mass: 376.0
23:50:57:
23:50:57: Finding reference mass
23:50:58: Finding sample mass
23:50:59:
23:51:04: [1] 375.9806 amu, mean: 375.9806
23:51:08: [2] 375.9814 amu, mean: 375.9810 SD: 0.54 mmu or: 1.44 ppm
23:51:11: [3] 375.9817 amu, mean: 375.9812 SD: 0.55 mmu or: 1.45 ppm
23:51:14: [4] 375.9815 amu, mean: 375.9813 SD: 0.47 mmu or: 1.25 ppm
23:51:15:
23:51:15: Stop requested. Please wait for procedure to finish.
23:51:15:
23:51:17:
23:51:18: Peakmatching stopped

Signature

 7-15-24

Reports

23:51:47: Peak matching procedure started
23:51:47:
23:51:48: Reference mass: 375.98017
23:51:48: Sample mass: 414.0
23:51:49:
23:51:49: Finding reference mass
23:51:50: Finding sample mass
23:51:51:
23:51:56: [1] 413.9775 amu, mean: 413.9775
23:52:00: [2] 413.9769 amu, mean: 413.9772 SD: 0.47 mmu or: 1.15 ppm
23:52:03: [3] 413.9773 amu, mean: 413.9772 SD: 0.34 mmu or: 0.82 ppm
23:52:06: [4] 413.9779 amu, mean: 413.9774 SD: 0.43 mmu or: 1.03 ppm
23:52:07:
23:52:07: Stop requested. Please wait for procedure to finish.
23:52:07:
23:52:09: [5] 413.9774 amu, mean: 413.9774 SD: 0.37 mmu or: 0.89 ppm
23:52:11:
23:52:11: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "L 7-15-24".

Reports

23:52:34: Peak matching procedure started
23:52:34:
23:52:35: Reference mass: 413.97698
23:52:35: Sample mass: 464.0
23:52:36:
23:52:36: Finding reference mass
23:52:37: Finding sample mass
23:52:38:
23:52:44: [1] 463.9747 amu, mean: 463.9747
23:52:47: [2] 463.9746 amu, mean: 463.9746 SD: 0.02 mmu or: 0.04 ppm
23:52:50: [3] 463.9744 amu, mean: 463.9745 SD: 0.16 mmu or: 0.35 ppm
23:52:53: [4] 463.9742 amu, mean: 463.9745 SD: 0.22 mmu or: 0.46 ppm
23:52:53:
23:52:53: Stop requested. Please wait for procedure to finish.
23:52:53:
23:52:56:
23:52:57: Peakmatching stopped


Signature

 7.15.24

Reports

23:53:23: Peak matching procedure started
23:53:23:
23:53:24: Reference mass: 463.97378
23:53:24: Sample mass: 502.0
23:53:25:
23:53:25: Finding reference mass
23:53:26: Finding sample mass
23:53:27:
23:53:32: [1] 501.9702 amu, mean: 501.9702
23:53:36: [2] 501.9704 amu, mean: 501.9703 SD: 0.18 mmu or: 0.36 ppm
23:53:39: [3] 501.9703 amu, mean: 501.9703 SD: 0.13 mmu or: 0.26 ppm
23:53:42: [4] 501.9700 amu, mean: 501.9702 SD: 0.17 mmu or: 0.34 ppm
23:53:43:
23:53:43: Stop requested. Please wait for procedure to finish.
23:53:43:
23:53:45:
23:53:46: Peakmatching stopped

Signature

 7-15-24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 15-Jul-2024 12:43:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2

Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 18:24:57 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 15-Jul-2024 13:57:17

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					151.0	151.0	0.1788	0.1788		
D PCB-1L	11:39	10092533	3.21	1.6108	102.1	102.1	0.2975	0.2975	102	
D PCB-3L	13:47	9468950	3.29	1.5891	97.1	97.1	0.3016	0.3016	97.08	
PCB-1	11:40	6136656	3.26	1.2191	49.9	49.9	0.1528	0.1528	99.75	
PCB-2	13:38	5800905	3.15	1.1805	50.2	50.2	0.1803	0.1803	100	
PCB-3	13:48	5881217	3.14	1.2206	50.9	50.9	0.2034	0.2034	102	
S Total Dichlorobiphenyls					617.3	617.3	0.0679	0.0679		
D PCB-4L	14:02	3966046	1.62	0.6475	99.8	99.8	0.1256	0.1256	99.79	
* PCB-9L	15:59	6137586	1.65		100.0	100.0				
\$ PCB-8L	16:50	2926280	1.58	1.2066	47.6	47.6	0.0883	0.0883	95.13	
D PCB-15L	19:53	6231189	1.63	1.0789	94.1	94.1	0.0754	0.0754	94.10	
PCB-4	14:04	2573582	1.59	1.2818	50.6	50.6	0.0778	0.0778	101	
PCB-10	14:13	3566848	1.59	1.3149	53.2	53.2	0.0711	0.0711	106	
PCB-9	16:00	3745709	1.60	1.4224	51.6	51.6	0.0657	0.0657	103	
PCB-7	16:10	3652463	1.62	1.4134	50.7	50.7	0.0661	0.0661	101	
PCB-6	16:25	4050203	1.60	1.5421	51.5	51.5	0.0606	0.0606	103	
PCB-5	16:43	3481079	1.58	1.3395	51.0	51.0	0.0698	0.0698	102	
PCB-8	16:50	4214985	1.58	1.5889	52.0	52.0	0.0588	0.0588	104	
PCB-14	18:27	3582883	1.57	1.4025	50.1	50.1	0.0666	0.0666	100	
PCB-11	19:17	3454947	1.61	1.2951	52.3	52.3	0.0722	0.0722	105	
PCB-12	19:35	6959878	1.61	1.3358	102.2	102.2	0.0700	0.0700	102	
PCB-13 (C12)	19:35	6959878	1.61	1.3358	102.2	102.2	0.0700	0.0700	102	
PCB-15	19:54	4178354	1.58	1.2903	52.0	52.0	0.0681	0.0681	104	
S Total Trichlorobiphenyls					1219.6	1219.6	0.4614	0.4614		
D PCB-19L	17:08	2429449	1.03	0.6285	97.9	97.9	0.3736	0.3736	97.94	
* PCB-32L	20:21	3946295	1.08		100.0	100.0				
* PCB-31L	22:36	9681302	1.05		100.0	100.0				
\$ PCB-28L	22:53	4758391	1.06	1.0494	46.8	46.8	0.1283	0.1283	93.67	
D PCB-37L	26:53	8580254	1.08	0.8749	101.3	101.3	0.1539	0.1539	101	
PCB-19	17:08	1533705	1.03	1.2809	49.3	49.3	0.0594	0.0594	98.57	
PCB-18	18:56	4314953	1.08	1.7652	100.6	100.6	0.0431	0.0431	101	
PCB-30 (C18)	18:56	4314953	1.08	1.7652	100.6	100.6	0.0431	0.0431	101	
PCB-17	19:24	1509806	1.07	1.2430	50.0	50.0	0.0612	0.0612	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:37	2296954	1.08	1.8327	51.6	51.6	0.0415	0.0415	103	
PCB-24	19:45	2085018	1.07	1.6777	51.2	51.2	0.0453	0.0453	102	
PCB-16	19:52	1408981	1.02	1.1286	51.4	51.4	0.0674	0.0674	103	
PCB-32	20:22	2288763	1.09	1.8324	51.4	51.4	0.0415	0.0415	103	
PCB-34	21:37	4870711	1.06	1.1277	50.3	50.3	0.6884	0.6884	101	
PCB-23	21:45	4711376	1.07	1.0813	50.8	50.8	0.7180	0.7180	102	
PCB-26	22:05	9721334	1.06	1.1255	100.7	100.7	0.6898	0.6898	101	
PCB-29 (C26)	22:05	9721334	1.06	1.1255	100.7	100.7	0.6898	0.6898	101	
PCB-25	22:18	5686922	1.05	1.2728	52.1	52.1	0.6100	0.6100	104	
PCB-31	22:37	5011952	1.09	1.1532	50.7	50.7	0.6732	0.6732	101	
PCB-20	22:56	10103550	1.07	1.1718	100.5	100.5	0.6625	0.6625	100	
PCB-28 (C20)	22:56	10103550	1.07	1.1718	100.5	100.5	0.6625	0.6625	100	
PCB-21	23:05	9511054	1.06	1.0746	103.2	103.2	0.7225	0.7225	103	M
PCB-33 (C21)	23:05	9511054	1.06	1.0746	103.2	103.2	0.7225	0.7225	103	M
PCB-22	23:33	5276065	1.06	1.1932	51.5	51.5	0.6506	0.6506	103	
PCB-36	25:05	4844017	1.07	1.1071	51.0	51.0	0.7013	0.7013	102	
PCB-39	25:27	5165576	1.05	1.1581	52.0	52.0	0.6704	0.6704	104	
PCB-38	26:01	4648918	1.08	1.0843	50.0	50.0	0.7160	0.7160	99.94	
PCB-35	26:30	4992385	1.05	1.1297	51.5	51.5	0.6872	0.6872	103	
PCB-37	26:54	4904726	1.06	1.1435	50.0	50.0	0.6789	0.6789	99.98	
S Total Tetrachlorobiphenyls					2066.9	2066.9	0.4966	0.4966		
D PCB-54L	20:11	2406805	0.81	0.5562	109.6	109.6	0.0820	0.0820	110	
* PCB-52L	24:43	5274822	0.82		100.0	100.0				
\$ PCB-79L	32:36	3179266	0.80	1.0018	48.4	48.4	0.3782	0.3782	96.87	
D PCB-81L	33:37	6379489	0.81	1.2470	97.0	97.0	0.3157	0.3157	96.99	
D PCB-77L	34:11	6724777	0.81	1.3212	96.5	96.5	0.2980	0.2980	96.50	
PCB-54	20:12	1576104	0.76	1.2733	51.4	51.4	0.0241	0.0241	103	
PCB-50	22:21	5195273	0.80	0.8578	92.4	92.4	0.6388	0.6388	92.44	
PCB-53 (C50)	22:21	5195273	0.80	0.8578	92.4	92.4	0.6388	0.6388	92.44	
PCB-45	23:05	5049130	0.81	0.8264	93.2	93.2	0.6630	0.6630	93.25	M
PCB-51 (C45)	23:05	5049130	0.81	0.8264	93.2	93.2	0.6630	0.6630	93.25	M
PCB-46	23:20	2116383	0.79	0.7101	45.5	45.5	0.7716	0.7716	90.98	
PCB-52	24:44	3044210	0.84	0.9194	50.5	50.5	0.5960	0.5960	101	
PCB-43	24:52	6870992	0.79	1.0333	101.5	101.5	0.5303	0.5303	101	M
PCB-73 (C43)	24:52	6870992	0.79	1.0333	101.5	101.5	0.5303	0.5303	101	M
PCB-49	25:09	6812134	0.81	1.0685	97.3	97.3	0.5128	0.5128	97.30	
PCB-69 (C49)	25:09	6812134	0.81	1.0685	97.3	97.3	0.5128	0.5128	97.30	
PCB-48	25:30	2654686	0.80	0.8399	48.2	48.2	0.6524	0.6524	96.48	
PCB-44	25:44	9216727	0.81	0.9731	144.6	144.6	0.5631	0.5631	96.37	
PCB-47 (C44)	25:44	9216727	0.81	0.9731	144.6	144.6	0.5631	0.5631	96.37	
PCB-65 (C44)	25:44	9216727	0.81	0.9731	144.6	144.6	0.5631	0.5631	96.37	
PCB-59	26:03	11071364	0.80	1.1853	142.6	142.6	0.4623	0.4623	95.04	
PCB-62 (C59)	26:03	11071364	0.80	1.1853	142.6	142.6	0.4623	0.4623	95.04	
PCB-75 (C59)	26:03	11071364	0.80	1.1853	142.6	142.6	0.4623	0.4623	95.04	
PCB-42	26:15	2676352	0.81	0.8097	50.4	50.4	0.6768	0.6768	101	
PCB-40	26:45	8439693	0.80	0.8863	145.3	145.3	0.6182	0.6182	96.88	M
PCB-41 (C40)	26:45	8439693	0.80	0.8863	145.3	145.3	0.6182	0.6182	96.88	M
PCB-71 (C40)	26:45	8439693	0.80	0.8863	145.3	145.3	0.6182	0.6182	96.88	M
PCB-64	26:57	3709587	0.82	1.1776	48.1	48.1	0.4653	0.4653	96.16	
PCB-72	27:47	3539149	0.81	1.0943	49.4	49.4	0.5007	0.5007	98.72	
PCB-68	28:04	4176638	0.80	1.2533	50.9	50.9	0.4372	0.4372	102	
PCB-57	28:29	3665083	0.82	1.0818	51.7	51.7	0.5065	0.5065	103	
PCB-58	28:44	4594244	0.83	1.3253	52.9	52.9	0.4134	0.4134	106	
PCB-67	28:53	4605126	0.85	1.4230	49.4	49.4	0.3850	0.3850	98.78	
PCB-63	29:09	3818329	0.80	1.1240	51.8	51.8	0.4875	0.4875	104	
PCB-61	29:30	16515595	0.81	1.2612	199.9	199.9	0.4344	0.4344	99.93	
PCB-70 (C61)	29:30	16515595	0.81	1.2612	199.9	199.9	0.4344	0.4344	99.93	
PCB-74 (C61)	29:30	16515595	0.81	1.2612	199.9	199.9	0.4344	0.4344	99.93	
PCB-76 (C61)	29:30	16515595	0.81	1.2612	199.9	199.9	0.4344	0.4344	99.93	
PCB-66	29:49	4314258	0.85	1.2583	52.3	52.3	0.4355	0.4355	105	
PCB-55	29:59	4504041	0.79	1.3236	51.9	51.9	0.4140	0.4140	104	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:30	4136459	0.82	1.2334	51.2	51.2	0.4442	0.4442	102	
PCB-60	30:42	3670029	0.83	1.1230	49.9	49.9	0.4879	0.4879	99.75	
PCB-80	31:06	4384117	0.80	1.3243	50.5	50.5	0.4138	0.4138	101	
PCB-79	32:38	4325663	0.79	1.4368	45.9	45.9	0.3814	0.3814	91.90	
PCB-78	33:12	3947892	0.80	1.1618	51.9	51.9	0.4716	0.4716	104	
PCB-81	33:38	3292325	0.78	1.0802	47.8	47.8	0.5130	0.5130	95.55	
PCB-77	34:12	3530163	0.76	1.0836	48.4	48.4	0.5001	0.5001	96.89	
S Total Pentachlorobiphenyls					2301.9	2301.9	0.2331	0.2331		
D PCB-104L	25:38	4287767	1.58	1.2161	102.7	102.7	0.0569	0.0569	103	
\$ PCB-95L	28:37	1597776	1.58	0.7218	51.6	51.6	0.0686	0.0686	103	
* PCB-101L	31:31	3434161	1.61		100.0	100.0				
\$ PCB-111L	34:11	2221519	1.63	1.3699	47.2	47.2	0.0505	0.0505	94.44	
D PCB-123L	36:09	6415495	1.61	0.9731	98.6	98.6	1.034	1.034	98.64	
D PCB-118L	36:29	6773665	1.62	1.0102	100.3	100.3	0.996	0.996	100	
D PCB-114L	37:00	6481063	1.61	0.9949	97.5	97.5	1.011	1.011	97.47	
D PCB-105L	37:40	6296966	1.61	0.9514	99.0	99.0	1.058	1.058	99.03	
* PCB-127L	39:07	6683272	1.60		100.0	100.0				
D PCB-126L	40:45	6505068	1.59	0.9439	103.1	103.1	1.066	1.066	103	
PCB-104	25:40	2179434	1.62	1.0087	50.4	50.4	0.0669	0.0669	101	
PCB-96	26:04	2308468	1.65	1.0940	49.2	49.2	0.0617	0.0617	98.42	
PCB-103	27:57	1882260	1.55	0.8741	50.2	50.2	0.0772	0.0772	100	
PCB-94	28:12	1611490	1.58	0.7640	49.2	49.2	0.0883	0.0883	98.38	
PCB-95	28:39	1774809	1.51	0.8033	51.5	51.5	0.0840	0.0840	103	
PCB-93	28:50	3680909	1.60	0.8429	101.9	101.9	0.0800	0.0800	102	
PCB-100 (C93)	28:50	3680909	1.60	0.8429	101.9	101.9	0.0800	0.0800	102	
PCB-98	29:00	3597991	1.56	0.8262	101.6	101.6	0.0817	0.0817	102	
PCB-102 (C98)	29:00	3597991	1.56	0.8262	101.6	101.6	0.0817	0.0817	102	
PCB-88	29:29	3569437	1.63	0.8013	103.9	103.9	0.0842	0.0842	104	
PCB-91 (C88)	29:29	3569437	1.63	0.8013	103.9	103.9	0.0842	0.0842	104	
PCB-84	29:44	1553764	1.57	0.7299	49.6	49.6	0.0924	0.0924	99.29	
PCB-89	30:12	1653789	1.64	0.7798	49.5	49.5	0.0865	0.0865	98.92	
PCB-121	30:34	2851360	1.62	1.2964	51.3	51.3	0.0520	0.0520	103	
PCB-92	30:58	1833065	1.61	0.8546	50.0	50.0	0.0789	0.0789	100	
PCB-90	31:32	6008567	1.58	0.9550	146.7	146.7	0.0706	0.0706	97.82	
PCB-101 (C90)	31:32	6008567	1.58	0.9550	146.7	146.7	0.0706	0.0706	97.82	
PCB-113 (C90)	31:32	6008567	1.58	0.9550	146.7	146.7	0.0706	0.0706	97.82	
PCB-83	32:07	3674668	1.57	0.8385	102.2	102.2	0.0805	0.0805	102	
PCB-99 (C83)	32:07	3674668	1.57	0.8385	102.2	102.2	0.0805	0.0805	102	
PCB-112	32:15	3018557	1.58	1.4111	49.9	49.9	0.0478	0.0478	99.78	
PCB-86	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-87 (C86)	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-97 (C86)	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-109 (C86)	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-119 (C86)	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-125 (C86)	32:36	13315467	1.61	1.0473	296.5	296.5	0.0644	0.0644	98.84	M
PCB-85	33:20	6759101	1.61	1.0408	151.5	151.5	0.0648	0.0648	101	
PCB-116 (C85)	33:20	6759101	1.61	1.0408	151.5	151.5	0.0648	0.0648	101	
PCB-117 (C85)	33:20	6759101	1.61	1.0408	151.5	151.5	0.0648	0.0648	101	
PCB-110	33:33	5219784	1.59	1.1919	102.1	102.1	0.0566	0.0566	102	
PCB-115 (C110)	33:33	5219784	1.59	1.1919	102.1	102.1	0.0566	0.0566	102	
PCB-82	33:51	1797915	1.61	0.8303	50.5	50.5	0.0813	0.0813	101	
PCB-111	34:13	2618207	1.57	1.2125	50.4	50.4	0.0556	0.0556	101	
PCB-120	34:40	3199433	1.61	1.4762	50.5	50.5	0.0457	0.0457	101	
PCB-108	35:49	7038509	1.61	1.1405	95.0	95.0	0.5577	0.5577	95.02	
PCB-124 (C108)	35:49	7038509	1.61	1.1405	95.0	95.0	0.5577	0.5577	95.02	
PCB-107	36:04	3837879	1.56	1.2121	48.8	48.8	0.5248	0.5248	97.51	
PCB-123	36:11	3202238	1.57	1.0722	46.6	46.6	0.5796	0.5796	93.10	
PCB-106	36:18	3571632	1.61	1.0839	50.7	50.7	0.5868	0.5868	101	
PCB-118	36:30	3946997	1.57	1.2055	48.3	48.3	0.4923	0.4923	96.67	
PCB-122	36:52	3108832	1.60	0.9567	50.0	50.0	0.6648	0.6648	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:02	3608047	1.56	1.0842	51.3	51.3	0.5703	0.5703	103	
PCB-105	37:41	3807630	1.57	1.1879	50.9	50.9	0.5661	0.5661	102	
PCB-127	39:09	3770230	1.53	1.1394	51.0	51.0	0.5582	0.5582	102	
PCB-126	40:46	3612118	1.58	1.0976	50.6	50.6	0.6229	0.6229	101	
S Total Hexachlorobiphenyls					2024.4	2024.4	0.2876	0.2876		
D PCB-155L	31:16	3754619	1.29	1.0851	100.8	100.8	0.0450	0.0450	101	
\$ PCB-153L	38:20	2256010	1.27	0.9169	41.9	41.9	0.4875	0.4875	83.77	
* PCB-138L	39:36	4546503	1.29		100.0	100.0				
D PCB-167L	42:35	5911855	1.28	1.2572	103.4	103.4	0.3671	0.3671	103	
D PCB-156L	43:45	11472848	1.30	1.2106	208.4	208.4	0.3812	0.3812	104	
D PCB-157L (C156L)	43:45	11472848	1.30	1.2106	208.4	208.4	0.3812	0.3812	104	
D PCB-169L	46:58	6113193	1.27	1.2439	108.1	108.1	0.3710	0.3710	108	
PCB-155	31:17	1861733	1.27	0.9444	52.5	52.5	0.0302	0.0302	105	
PCB-152	31:31	1864665	1.32	0.9895	50.2	50.2	0.0289	0.0289	100	
PCB-150	31:41	1971878	1.23	1.0132	51.8	51.8	0.0282	0.0282	104	
PCB-136	32:04	1922385	1.27	1.0116	50.6	50.6	0.0282	0.0282	101	
PCB-145	32:20	1930402	1.29	0.9685	53.1	53.1	0.0295	0.0295	106	
PCB-148	33:50	1478710	1.30	0.7603	51.8	51.8	0.0376	0.0376	104	
PCB-135	34:26	2830928	1.27	0.7256	103.9	103.9	0.0393	0.0393	104	M
PCB-151 (C135)	34:26	2830928	1.27	0.7256	103.9	103.9	0.0393	0.0393	104	M
PCB-154	34:40	1647035	1.29	0.8129	54.0	54.0	0.0351	0.0351	108	
PCB-144	35:00	1531134	1.31	0.7852	51.9	51.9	0.0364	0.0364	104	
PCB-147	35:22	4882797	1.24	0.8950	92.9	92.9	0.4093	0.4093	92.87	
PCB-149 (C147)	35:22	4882797	1.24	0.8950	92.9	92.9	0.4093	0.4093	92.87	
PCB-134	35:40	4188779	1.27	0.7967	89.5	89.5	0.4598	0.4598	89.50	
PCB-143 (C134)	35:40	4188779	1.27	0.7967	89.5	89.5	0.4598	0.4598	89.50	
PCB-139	35:57	4627962	1.26	0.8769	89.8	89.8	0.4178	0.4178	89.84	
PCB-140 (C139)	35:57	4627962	1.26	0.8769	89.8	89.8	0.4178	0.4178	89.84	
PCB-131	36:10	1971602	1.29	0.7503	44.7	44.7	0.4882	0.4882	89.46	
PCB-142	36:19	2124684	1.27	0.7507	48.2	48.2	0.4880	0.4880	96.36	
PCB-132	36:38	1939913	1.25	0.7489	44.1	44.1	0.4891	0.4891	88.19	
PCB-133	37:07	2078942	1.30	0.8096	43.7	43.7	0.4525	0.4525	87.43	
PCB-165	37:30	2882177	1.28	1.0247	47.9	47.9	0.3575	0.3575	95.76	
PCB-146	37:45	2573913	1.19	0.9637	45.5	45.5	0.3801	0.3801	90.93	
PCB-161	37:52	3054139	1.32	1.1288	46.1	46.1	0.3245	0.3245	92.12	
PCB-153	38:23	6032989	1.26	1.0938	93.9	93.9	0.3349	0.3349	93.89	
PCB-168 (C153)	38:23	6032989	1.26	1.0938	93.9	93.9	0.3349	0.3349	93.89	
PCB-141	38:34	2367353	1.25	0.8755	46.0	46.0	0.4184	0.4184	92.06	
PCB-130	38:59	1930471	1.27	0.7051	46.6	46.6	0.5195	0.5195	93.21	
PCB-137	39:11	2192203	1.26	0.7767	48.0	48.0	0.4717	0.4717	96.10	
PCB-164	39:19	2993131	1.31	1.0382	49.1	49.1	0.3528	0.3528	98.15	
PCB-129	39:37	10468769	1.23	0.9464	188.3	188.3	0.3871	0.3871	94.15	M
PCB-138 (C129)	39:37	10468769	1.23	0.9464	188.3	188.3	0.3871	0.3871	94.15	M
PCB-160 (C129)	39:37	10468769	1.23	0.9464	188.3	188.3	0.3871	0.3871	94.15	M
PCB-163 (C129)	39:37	10468769	1.23	0.9464	188.3	188.3	0.3871	0.3871	94.15	M
PCB-158	40:00	3668395	1.26	1.3110	47.6	47.6	0.2794	0.2794	95.26	
PCB-128	40:51	5561371	1.24	0.9829	96.3	96.3	0.3727	0.3727	96.31	
PCB-166 (C128)	40:51	5561371	1.24	0.9829	96.3	96.3	0.3727	0.3727	96.31	
PCB-159	41:50	3907502	1.25	1.3856	48.0	48.0	0.2644	0.2644	96.01	
PCB-162	42:08	3647133	1.26	1.2571	49.4	49.4	0.2914	0.2914	98.77	
PCB-167	42:36	3224755	1.29	1.1159	48.9	48.9	0.2650	0.2650	97.77	
PCB-156	43:46	6426787	1.27	1.1104	100.9	100.9	0.4253	0.4253	101	
PCB-157 (C156)	43:46	6426787	1.27	1.1104	100.9	100.9	0.4253	0.4253	101	
PCB-169	46:59	3496828	1.27	1.1628	49.2	49.2	0.2604	0.2604	98.38	
S Total Heptachlorobiphenyls					1250.5	1250.5	0.0406	0.0406		
D PCB-188L	36:59	4331771	1.05	1.3133	93.3	93.3	0.0402	0.0402	93.31	
\$ PCB-178L	40:02	1621319	1.07	1.0313	44.5	44.5	0.0512	0.0512	88.95	
* PCB-180L	45:07	3534829	1.10		100.0	100.0				
D PCB-170L	46:23	2963464	1.07	0.8362	100.3	100.3	0.0631	0.0631	100	
D PCB-189L	49:28	6799705	1.06	1.4414	98.6	98.6	0.5632	0.5632	98.62	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:00	2496181	1.06	1.1350	50.8	50.8	0.0260	0.0260	102	
PCB-179	37:23	2498084	1.07	1.4276	48.0	48.0	0.0250	0.0250	95.95	
PCB-184	37:52	2514570	1.06	1.3672	50.4	50.4	0.0261	0.0261	101	
PCB-176	38:15	2206867	1.07	1.2331	49.1	49.1	0.0290	0.0290	98.13	
PCB-186	38:42	2774823	1.06	1.4737	51.6	51.6	0.0242	0.0242	103	
PCB-178	40:04	1666959	1.04	0.8946	51.1	51.1	0.0399	0.0399	102	
PCB-175	40:41	1817435	1.04	0.9524	52.3	52.3	0.0375	0.0375	105	
PCB-187	40:58	2091272	1.08	1.1018	52.0	52.0	0.0324	0.0324	104	
PCB-182	41:09	1833582	1.05	0.9247	54.4	54.4	0.0386	0.0386	109	
PCB-183	41:34	3529318	1.07	0.9825	98.5	98.5	0.0364	0.0364	98.48	M
PCB-185 (C183)	41:34	3529318	1.07	0.9825	98.5	98.5	0.0364	0.0364	98.48	M
PCB-174	41:50	1867060	1.07	0.9642	53.1	53.1	0.0370	0.0370	106	
PCB-177	42:16	1877408	1.06	0.9773	52.7	52.7	0.0366	0.0366	105	
PCB-181	42:39	1804792	1.05	0.9505	52.1	52.1	0.0376	0.0376	104	
PCB-171	42:52	3437744	1.04	0.9336	100.9	100.9	0.0383	0.0383	101	
PCB-173 (C171)	42:52	3437744	1.04	0.9336	100.9	100.9	0.0383	0.0383	101	
PCB-172	44:30	1665742	1.10	0.8519	53.6	53.6	0.0419	0.0419	107	
PCB-192	44:46	2809675	1.05	1.3459	57.2	57.2	0.0265	0.0265	114	
PCB-180	45:07	4580759	1.07	1.1676	107.6	107.6	0.0306	0.0306	108	
PCB-193 (C180)	45:07	4580759	1.07	1.1676	107.6	107.6	0.0306	0.0306	108	
PCB-191	45:30	2637174	1.07	1.2891	56.1	56.1	0.0277	0.0277	112	
PCB-170	46:25	1740842	1.03	1.1865	49.5	49.5	0.0380	0.0380	99.02	
PCB-190	46:55	2756063	1.10	1.3322	56.7	56.7	0.0268	0.0268	113	M
PCB-189	49:30	3466824	1.04	0.9633	52.9	52.9	0.1970	0.1970	106	
S Total Octachlorobiphenyls					612.8	612.8	0.1130	0.1130		
D PCB-202L	42:20	3462449	0.91	0.9818	99.8	99.8	0.0744	0.0744	99.77	
* PCB-194L	51:35	4783363	0.92		100.0	100.0				
D PCB-205L	52:03	5799620	0.90	1.1786	102.9	102.9	0.0773	0.0773	103	
PCB-202	42:22	1898224	0.91	1.0359	52.9	52.9	0.0864	0.0864	106	
PCB-201	43:17	1763463	0.90	0.9754	52.2	52.2	0.0918	0.0918	104	
PCB-204	43:57	1874723	0.91	1.0485	51.6	51.6	0.0854	0.0854	103	
PCB-197	44:11	1998089	0.94	1.1458	50.4	50.4	0.0781	0.0781	101	
PCB-200	44:19	1780121	0.88	1.0072	51.0	51.0	0.0889	0.0889	102	
PCB-198	47:04	3081620	0.90	0.8698	102.3	102.3	0.1029	0.1029	102	
PCB-199 (C198)	47:04	3081620	0.90	0.8698	102.3	102.3	0.1029	0.1029	102	
PCB-196	47:44	1404484	0.89	0.7806	52.0	52.0	0.1147	0.1147	104	
PCB-203	47:56	1741984	0.92	0.9292	54.1	54.1	0.0964	0.0964	108	
PCB-195	49:16	2345142	0.91	0.8263	48.9	48.9	0.1911	0.1911	97.87	
PCB-194	51:36	2701711	0.88	0.9735	47.9	47.9	0.1622	0.1622	95.70	
PCB-205	52:04	3116212	0.89	1.0878	49.4	49.4	0.1452	0.1452	98.79	
S Total Nonachlorobiphenyls					144.2	144.2	0.4449	0.4449		
D PCB-208L	49:00	4718980	0.80	0.9576	103.0	103.0	0.1495	0.1495	103	
D PCB-206L	53:48	3500707	0.80	0.6947	105.3	105.3	0.2061	0.2061	105	
PCB-208	49:01	2684587	0.79	1.1374	50.0	50.0	0.4213	0.4213	100	
PCB-207	49:56	2670670	0.78	1.3756	47.2	47.2	0.4075	0.4075	94.48	
PCB-206	53:49	2194404	0.80	1.3346	47.0	47.0	0.5059	0.5059	93.94	
D PCB-209L	55:24	3632157	0.71	0.6669	113.9	113.9	0.0819	0.0819	114	
DCB Decachlorobiphenyl	55:25	2006180	0.71	1.1004	50.2	50.2	0.0903	0.0903	100	
S Polychlorinated biphenyls, Total					10288	10288	0.2484	0.2484		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 15-Jul-2024 12:43:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-001
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 18:24:57 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1661

First Level Reviewer: F9EE

Date: 15-Jul-2024 13:57:17

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:39	0	0.729	7692460	2968279	1872	4680	1586		
202.0766	11:39	11:39	0	0.729	2400073	933884	1422	3555	657	3.21(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:47	0	0.863	7263076	2242100	1872	4680	1198		
202.0766	13:47	13:47	0	0.863	2205874	686214	1422	3555	483	3.29(2.66-3.60)	
PCB-1											
188.0393	11:40	11:40	0	1.001	4695605	1835445	2201	5502	834		
190.0363	11:40	11:40	0	1.001	1441051	578507	707	1767	818	3.26(2.66-3.60)	
PCB-2											
188.0393	13:38	13:38	0	0.989	4403545	1345777	2201	5502	611		
190.0363	13:38	13:38	0	0.989	1397360	426689	707	1767	604	3.15(2.66-3.60)	
PCB-3											
188.0393	13:48	13:48	0	1.001	4460479	1348293	2201	5502	613		
190.0363	13:48	13:48	0	1.001	1420738	437895	707	1767	619	3.14(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.878	2453597	753206	415	1037	1815		
236.0376	14:02	14:02	0	0.878	1512449	474714	144	360	3297	1.62(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		3820894	1068289	415	1037	2574		
236.0376	15:59	15:59	0		2316692	649836	144	360	4513	1.65(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	0	1.199	1790210	472953	415	1037	1140		
236.0376	16:50	16:50	0	1.199	1136070	303903	144	360	2110	1.58(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:53	0	1.244	3864296	859458	415	1037	2071		
236.0376	19:53	19:53	0	1.244	2366893	534416	144	360	3711	1.63(1.33-1.79)	
PCB-4											
222.0003	14:04	14:04	0	1.002	1579610	497273	159	397	3128		
223.9974	14:04	14:04	0	1.002	993972	311036	331	827	940	1.59(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	2191895	691101	159	397	4347		
223.9974	14:13	14:13	0	1.013	1374953	430155	331	827	1300	1.59(1.33-1.79)	
PCB-9											
222.0003	16:00	16:00	0	1.140	2304750	652035	159	397	4101		
223.9974	16:00	16:00	0	1.140	1440959	403887	331	827	1220	1.60(1.33-1.79)	
PCB-7											
222.0003	16:10	16:10	0	1.152	2257757	610760	159	397	3841		
223.9974	16:09	16:10	-1	1.151	1394706	374729	331	827	1132	1.62(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.170	2489896	642796	159	397	4043		
223.9974	16:25	16:25	0	1.170	1560307	406075	331	827	1227	1.60(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.191	2130655	590379	159	397	3713		
223.9974	16:42	16:43	-1	1.190	1350424	368210	331	827	1112	1.58(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	0	1.200	2582381	672039	159	397	4227		
223.9974	16:50	16:50	0	1.200	1632604	429535	331	827	1298	1.58(1.33-1.79)	
PCB-14											
222.0003	18:27	18:27	0	0.927	2190736	531665	159	397	3344		
223.9974	18:27	18:27	0	0.927	1392147	339690	331	827	1026	1.57(1.33-1.79)	
PCB-11											
222.0003	19:17	19:17	0	0.970	2129631	473781	159	397	2980		
223.9974	19:17	19:17	0	0.970	1325316	296209	331	827	895	1.61(1.33-1.79)	
PCB-12											
222.0003	19:35	19:35	0	0.985	4293815	701754	159	397	4414		
223.9974	19:35	19:35	0	0.985	2666063	435692	331	827	1316	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:35	0	0.985	4293815	701754	159	397	4414		
223.9974	19:35	19:35	0	0.985	2666063	435692	331	827	1316	1.61(1.33-1.79)	
PCB-15											
222.0003	19:54	19:54	0	1.001	2559043	535426	159	397	3367		
223.9974	19:54	19:54	0	1.001	1619311	339564	331	827	1026	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.842	1233208	326820	435	1087	751		
269.9986	17:08	17:08	0	0.842	1196241	323996	455	1137	712	1.03(0.88-1.20)	
PCB-32L											
268.0016	20:21	20:21	0		2046589	489028	435	1087	1124		
269.9986	20:21	20:21	0		1899706	458436	455	1137	1008	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:36	22:36	0		4954374	1122092	779	1947	1440		
269.9986	22:36	22:36	0		4726928	1062565	398	995	2670	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:53	22:53	0	1.012	2444566	517402	779	1947	664		
269.9986	22:53	22:53	0	1.012	2313825	498769	398	995	1253	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:53	0	1.190	4445912	828641	779	1947	1064		
269.9986	26:53	26:53	0	1.190	4134342	763003	398	995	1917	1.08(0.88-1.20)	
PCB-19											
255.9613	17:08	17:08	0	1.001	779836	213630	83	207	2574		
257.9584	17:08	17:08	0	1.001	753869	206507	115	287	1796	1.03(0.88-1.20)	
PCB-18											
255.9613	18:56	18:56	0	1.105	2244598	356373	83	207	4294		
257.9584	18:56	18:56	0	1.105	2070355	339234	115	287	2950	1.08(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:56	18:56	0	1.105	2244598	356373	83	207	4294		
257.9584	18:56	18:56	0	1.105	2070355	339234	115	287	2950	1.08(0.88-1.20)	
PCB-17											
255.9613	19:24	19:24	0	1.133	780728	193795	83	207	2335		
257.9584	19:24	19:24	0	1.133	729078	184717	115	287	1606	1.07(0.88-1.20)	
PCB-27											
255.9613	19:37	19:37	0	1.145	1191792	299262	83	207	3606		
257.9584	19:37	19:37	1	1.146	1105162	272764	115	287	2372	1.08(0.88-1.20)	
PCB-24											
255.9613	19:45	19:45	0	1.153	1078783	269303	83	207	3245		
257.9584	19:45	19:45	0	1.153	1006235	251854	115	287	2190	1.07(0.88-1.20)	
PCB-16											
255.9613	19:52	19:52	0	1.160	711353	175243	83	207	2111		
257.9584	19:52	19:52	0	1.160	697628	169757	115	287	1476	1.02(0.88-1.20)	
PCB-32											
255.9613	20:22	20:22	0	1.190	1192419	289381	83	207	3487		
257.9584	20:22	20:22	0	1.190	1096344	263754	115	287	2294	1.09(0.88-1.20)	
PCB-34											
255.9613	21:37	21:37	0	1.262	2509373	603410	2111	5277	286		
257.9584	21:37	21:37	0	1.262	2361338	561491	2832	7080	198	1.06(0.88-1.20)	
PCB-23											
255.9613	21:45	21:45	0	1.270	2433359	570608	2111	5277	270		
257.9584	21:45	21:45	0	1.270	2278017	533822	2832	7080	188	1.07(0.88-1.20)	
PCB-26											
255.9613	22:05	22:05	0	1.289	4991127	1086630	2111	5277	515		
257.9584	22:05	22:05	0	1.289	4730207	1015988	2832	7080	359	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:05	22:05	0	1.289	4991127	1086630	2111	5277	515		
257.9584	22:05	22:05	0	1.289	4730207	1015988	2832	7080	359	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:18	22:18	0	0.829	2914019	613700	2111	5277	291		
257.9584	22:18	22:18	0	0.829	2772903	582438	2832	7080	206	1.05(0.88-1.20)	
PCB-31											
255.9613	22:37	22:37	0	0.841	2613560	577619	2111	5277	274		
257.9584	22:37	22:37	0	0.841	2398392	531619	2832	7080	188	1.09(0.88-1.20)	
PCB-20											
255.9613	22:56	22:56	0	0.853	5214082	853074	2111	5277	404		
257.9584	22:56	22:56	0	0.853	4889468	809481	2832	7080	286	1.07(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:56	0	0.853	5214082	853074	2111	5277	404		
257.9584	22:56	22:56	0	0.853	4889468	809481	2832	7080	286	1.07(0.88-1.20)	
PCB-21											
255.9613	23:05	23:05	0	0.858	4887833	574127	2111	5277	272		M
257.9584	23:05	23:05	0	0.858	4623221	546616	2832	7080	193	1.06(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:05	23:05	0	0.858	4887833	574127	2111	5277	272		M
257.9584	23:05	23:05	0	0.858	4623221	546616	2832	7080	193	1.06(0.88-1.20)	M
PCB-22											
255.9613	23:33	23:33	0	0.876	2718923	582266	2111	5277	276		
257.9584	23:32	23:33	-1	0.875	2557142	553324	2832	7080	195	1.06(0.88-1.20)	
PCB-36											
255.9613	25:05	25:05	0	0.933	2505357	502663	2111	5277	238		
257.9584	25:05	25:05	0	0.933	2338660	460605	2832	7080	163	1.07(0.88-1.20)	
PCB-39											
255.9613	25:27	25:27	0	0.946	2647047	533264	2111	5277	253		
257.9584	25:27	25:27	0	0.946	2518529	509980	2832	7080	180	1.05(0.88-1.20)	
PCB-38											
255.9613	26:01	26:01	0	0.968	2413084	487908	2111	5277	231		
257.9584	26:01	26:01	0	0.968	2235834	455935	2832	7080	161	1.08(0.88-1.20)	
PCB-35											
255.9613	26:30	26:30	0	0.985	2552462	493239	2111	5277	234		
257.9584	26:30	26:30	0	0.985	2439923	470889	2832	7080	166	1.05(0.88-1.20)	
PCB-37											
255.9613	26:54	26:54	0	1.000	2522360	481077	2111	5277	228		
257.9584	26:54	26:54	0	1.000	2382366	441132	2832	7080	156	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:11	20:11	0	0.817	1076949	266351	125	312	2131		
303.9597	20:11	20:11	0	0.817	1329856	326954	48	120	6812	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:43	24:43	0		2377534	526046	808	2020	651		
303.9597	24:43	24:43	0		2897288	636121	1022	2555	622	0.82(0.65-0.89)	
PCB-79L											
301.9626	32:36	32:36	0	0.970	1417761	275114	808	2020	340		
303.9597	32:36	32:36	0	0.970	1761505	349914	1022	2555	342	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:37	33:37	0	1.360	2862029	536224	808	2020	664		
303.9597	33:36	33:37	-1	1.360	3517460	657922	1022	2555	644	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:11	34:11	0	1.383	3017389	546835	808	2020	677		
303.9597	34:11	34:11	0	1.383	3707388	674269	1022	2555	660	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:12	0	1.000	680292	176465	22	55	8021		
291.9194	20:12	20:12	0	1.000	895812	227448	51	127	4460	0.76(0.65-0.89)	
PCB-50											
289.9224	22:21	22:21	0	1.107	2315839	542038	1381	3452	392		
291.9194	22:21	22:21	0	1.107	2879434	666367	1266	3165	526	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:21	22:21	0	1.107	2315839	542038	1381	3452	392		
291.9194	22:21	22:21	0	1.107	2879434	666367	1266	3165	526	0.80(0.65-0.89)	
PCB-45											
289.9224	23:05	23:05	0	1.143	2257964	292696	1381	3452	212		M
291.9194	23:05	23:05	0	1.143	2791166	374368	1266	3165	296	0.81(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:05	23:05	0	1.143	2257964	292696	1381	3452	212		M
291.9194	23:05	23:05	0	1.143	2791166	374368	1266	3165	296	0.81(0.65-0.89)	M
PCB-46											
289.9224	23:20	23:20	0	1.156	932464	219807	1381	3452	159		
291.9194	23:20	23:20	0	1.156	1183919	275460	1266	3165	218	0.79(0.65-0.89)	
PCB-52											
289.9224	24:44	24:44	0	1.225	1391028	321975	1381	3452	233		
291.9194	24:44	24:44	0	1.225	1653182	388502	1266	3165	307	0.84(0.65-0.89)	
PCB-43											
289.9224	24:52	24:52	0	1.232	3028560	411697	1381	3452	298		M
291.9194	24:52	24:52	0	1.232	3842432	521015	1266	3165	412	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:52	24:52	0	1.232	3028560	411697	1381	3452	298		M
291.9194	24:52	24:52	0	1.232	3842432	521015	1266	3165	412	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:09	25:09	0	1.246	3043738	435941	1381	3452	316		
291.9194	25:09	25:09	0	1.246	3768396	530521	1266	3165	419	0.81(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:09	25:09	0	1.246	3043738	435941	1381	3452	316		
291.9194	25:09	25:09	0	1.246	3768396	530521	1266	3165	419	0.81(0.65-0.89)	
PCB-48											
289.9224	25:30	25:30	0	1.263	1177282	267167	1381	3452	193		
291.9194	25:30	25:30	0	1.263	1477404	324374	1266	3165	256	0.80(0.65-0.89)	
PCB-44											
289.9224	25:44	25:44	0	1.275	4136919	801598	1381	3452	580		
291.9194	25:44	25:44	-1	1.274	5079808	991994	1266	3165	784	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:44	25:44	0	1.275	4136919	801598	1381	3452	580		
291.9194	25:44	25:44	-1	1.274	5079808	991994	1266	3165	784	0.81(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:44	25:44	0	1.275	4136919	801598	1381	3452	580		
291.9194	25:44	25:44	-1	1.274	5079808	991994	1266	3165	784	0.81(0.65-0.89)	
PCB-59											
289.9224	26:03	26:03	0	1.290	4934126	771660	1381	3452	559		
291.9194	26:03	26:03	0	1.290	6137238	961320	1266	3165	759	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:03	26:03	0	1.290	4934126	771660	1381	3452	559		
291.9194	26:03	26:03	0	1.290	6137238	961320	1266	3165	759	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:03	26:03	0	1.290	4934126	771660	1381	3452	559		
291.9194	26:03	26:03	0	1.290	6137238	961320	1266	3165	759	0.80(0.65-0.89)	
PCB-42											
289.9224	26:15	26:15	0	1.300	1198314	253043	1381	3452	183		
291.9194	26:15	26:15	0	1.300	1478038	320634	1266	3165	253	0.81(0.65-0.89)	
PCB-40											
289.9224	26:45	26:45	0	1.325	3744710	594162	1381	3452	430		M
291.9194	26:45	26:45	0	1.325	4694983	759103	1266	3165	600	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:45	26:45	0	1.325	3744710	594162	1381	3452	430		M
291.9194	26:45	26:45	0	1.325	4694983	759103	1266	3165	600	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:45	26:45	0	1.325	3744710	594162	1381	3452	430		M
291.9194	26:45	26:45	0	1.325	4694983	759103	1266	3165	600	0.80(0.65-0.89)	M
PCB-64											
289.9224	26:57	26:57	0	1.335	1668138	352533	1381	3452	255		
291.9194	26:57	26:57	0	1.335	2041449	440595	1266	3165	348	0.82(0.65-0.89)	
PCB-72											
289.9224	27:47	27:47	0	0.827	1588684	343878	1381	3452	249		
291.9194	27:46	27:47	-1	0.826	1950465	405090	1266	3165	320	0.81(0.65-0.89)	
PCB-68											
289.9224	28:04	28:04	0	0.835	1854168	370044	1381	3452	268		
291.9194	28:04	28:04	0	0.835	2322470	464635	1266	3165	367	0.80(0.65-0.89)	
PCB-57											
289.9224	28:29	28:29	0	0.847	1649370	352169	1381	3452	255		
291.9194	28:29	28:29	0	0.847	2015713	433168	1266	3165	342	0.82(0.65-0.89)	
PCB-58											
289.9224	28:44	28:44	0	0.855	2089336	412640	1381	3452	299		
291.9194	28:44	28:44	0	0.855	2504908	508463	1266	3165	402	0.83(0.65-0.89)	
PCB-67											
289.9224	28:53	28:53	0	0.859	2118043	408570	1381	3452	296		
291.9194	28:53	28:53	0	0.859	2487083	511353	1266	3165	404	0.85(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:09	29:09	0	0.867	1702805	346037	1381	3452	251		
291.9194	29:09	29:09	0	0.867	2115524	449906	1266	3165	355	0.80(0.65-0.89)	
PCB-61											
289.9224	29:30	29:30	0	0.878	7370458	871531	1381	3452	631		
291.9194	29:30	29:30	0	0.878	9145137	1089031	1266	3165	860	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:30	29:30	0	0.878	7370458	871531	1381	3452	631		
291.9194	29:30	29:30	0	0.878	9145137	1089031	1266	3165	860	0.81(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:30	29:30	0	0.878	7370458	871531	1381	3452	631		
291.9194	29:30	29:30	0	0.878	9145137	1089031	1266	3165	860	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:30	29:30	0	0.878	7370458	871531	1381	3452	631		
291.9194	29:30	29:30	0	0.878	9145137	1089031	1266	3165	860	0.81(0.65-0.89)	
PCB-66											
289.9224	29:49	29:49	0	0.887	1987163	391304	1381	3452	283		
291.9194	29:49	29:49	0	0.887	2327095	465754	1266	3165	368	0.85(0.65-0.89)	
PCB-55											
289.9224	29:59	29:59	0	0.892	1985372	391501	1381	3452	283		
291.9194	29:59	29:59	0	0.892	2518669	505330	1266	3165	399	0.79(0.65-0.89)	
PCB-56											
289.9224	30:30	30:30	0	0.907	1861995	371578	1381	3452	269		
291.9194	30:30	30:30	0	0.907	2274464	464718	1266	3165	367	0.82(0.65-0.89)	
PCB-60											
289.9224	30:42	30:42	0	0.913	1665274	327274	1381	3452	237		
291.9194	30:42	30:42	0	0.913	2004755	408097	1266	3165	322	0.83(0.65-0.89)	
PCB-80											
289.9224	31:06	31:06	0	0.925	1946092	385241	1381	3452	279		
291.9194	31:06	31:06	0	0.925	2438025	499502	1266	3165	395	0.80(0.65-0.89)	
PCB-79											
289.9224	32:38	32:38	0	0.971	1909985	363284	1381	3452	263		
291.9194	32:38	32:38	0	0.971	2415678	451912	1266	3165	357	0.79(0.65-0.89)	
PCB-78											
289.9224	33:12	33:12	0	0.987	1749931	305128	1381	3452	221		
291.9194	33:12	33:12	0	0.987	2197961	388546	1266	3165	307	0.80(0.65-0.89)	
PCB-81											
289.9224	33:38	33:38	0	1.000	1438574	281365	1381	3452	204		
291.9194	33:38	33:38	0	1.000	1853751	353552	1266	3165	279	0.78(0.65-0.89)	
PCB-77											
289.9224	34:12	34:12	0	1.001	1527184	280497	1381	3452	203		
291.9194	34:12	34:12	0	1.001	2002979	367177	1266	3165	290	0.76(0.65-0.89)	
PCB-104L											
337.9207	25:38	25:38	0	0.813	2629052	596599	127	317	4698		
339.9178	25:38	25:38	0	0.813	1658715	377207	66	165	5715	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:37	28:37	0	1.116	979049	193504	127	317	1524		
339.9178	28:36	28:37	-1	1.116	618727	122831	66	165	1861	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		2120714	429010	127	317	3378		
339.9178	31:31	31:31	0		1313447	267574	66	165	4054	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	0	1.085	1378358	267374	127	317	2105		
339.9178	34:11	34:11	0	1.085	843161	168637	66	165	2555	1.63(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	3954784	789179	2782	6955	284		
339.9178	36:09	36:09	0	1.147	2460711	495931	2189	5472	227	1.61(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	0	1.158	4183998	819569	2782	6955	295		
339.9178	36:29	36:29	0	1.158	2589667	526323	2189	5472	240	1.62(1.32-1.78)	
PCB-114L											
337.9207	37:00	37:00	0	1.174	3999869	789726	2782	6955	284		
339.9178	37:00	37:00	0	1.174	2481194	501970	2189	5472	229	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:40	37:40	0	1.195	3884386	734479	2782	6955	264		
339.9178	37:40	37:40	0	1.195	2412580	453272	2189	5472	207	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		4115418	763481	2782	6955	274		
339.9178	39:07	39:07	0		2567854	471431	2189	5472	215	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:45	40:45	0	1.293	3995582	717462	2782	6955	258		
339.9178	40:44	40:45	-1	1.293	2509486	450694	2189	5472	206	1.59(1.32-1.78)	
PCB-104											
325.8804	25:40	25:40	0	1.001	1347975	298735	208	520	1436		
327.8775	25:40	25:40	0	1.001	831459	188185	55	137	3422	1.62(1.32-1.78)	
PCB-96											
325.8804	26:04	26:04	0	1.016	1436081	310950	208	520	1495		
327.8775	26:04	26:04	0	1.016	872387	187396	55	137	3407	1.65(1.32-1.78)	
PCB-103											
325.8804	27:57	27:57	0	1.090	1143312	241268	208	520	1160		
327.8775	27:57	27:57	0	1.090	738948	154846	55	137	2815	1.55(1.32-1.78)	
PCB-94											
325.8804	28:12	28:12	0	1.100	985794	204125	208	520	981		
327.8775	28:12	28:12	0	1.100	625696	130571	55	137	2374	1.58(1.32-1.78)	
PCB-95											
325.8804	28:39	28:39	0	1.117	1067667	227316	208	520	1093		
327.8775	28:39	28:39	0	1.117	707142	149614	55	137	2720	1.51(1.32-1.78)	
PCB-93											
325.8804	28:50	28:50	0	1.125	2266077	391856	208	520	1884		
327.8775	28:50	28:50	0	1.125	1414832	239442	55	137	4353	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:50	28:50	0	1.125	2266077	391856	208	520	1884		
327.8775	28:50	28:50	0	1.125	1414832	239442	55	137	4353	1.60(1.32-1.78)	
PCB-98											
325.8804	29:00	29:00	0	1.131	2189879	270412	208	520	1300		
327.8775	28:59	29:00	-1	1.131	1408112	172406	55	137	3135	1.56(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:00	29:00	0	1.131	2189879	270412	208	520	1300		
327.8775	28:59	29:00	-1	1.131	1408112	172406	55	137	3135	1.56(1.32-1.78)	
PCB-88											
325.8804	29:29	29:29	0	1.150	2212122	240502	208	520	1156		
327.8775	29:29	29:29	0	1.150	1357315	147726	55	137	2686	1.63(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:29	29:29	0	1.150	2212122	240502	208	520	1156		
327.8775	29:29	29:29	0	1.150	1357315	147726	55	137	2686	1.63(1.32-1.78)	
PCB-84											
325.8804	29:44	29:44	0	1.160	949492	191204	208	520	919		
327.8775	29:44	29:44	0	1.160	604272	120369	55	137	2189	1.57(1.32-1.78)	
PCB-89											
325.8804	30:12	30:12	0	1.178	1026354	208793	208	520	1004		
327.8775	30:12	30:12	0	1.178	627435	128477	55	137	2336	1.64(1.32-1.78)	
PCB-121											
325.8804	30:34	30:34	0	1.192	1762521	353112	208	520	1698		
327.8775	30:34	30:34	0	1.192	1088839	223024	55	137	4055	1.62(1.32-1.78)	
PCB-92											
325.8804	30:58	30:58	0	0.857	1130292	238426	208	520	1146		
327.8775	30:58	30:58	0	0.857	702773	142225	55	137	2586	1.61(1.32-1.78)	
PCB-90											
325.8804	31:32	31:32	0	1.230	3676696	564545	208	520	2714		
327.8775	31:32	31:32	0	1.230	2331871	354189	55	137	6440	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:32	31:32	0	1.230	3676696	564545	208	520	2714		
327.8775	31:32	31:32	0	1.230	2331871	354189	55	137	6440	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:32	31:32	0	1.230	3676696	564545	208	520	2714		
327.8775	31:32	31:32	0	1.230	2331871	354189	55	137	6440	1.58(1.32-1.78)	
PCB-83											
325.8804	32:07	32:07	0	1.253	2242655	289296	208	520	1391		
327.8775	32:07	32:07	0	1.253	1432013	190481	55	137	3463	1.57(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:07	0	1.253	2242655	289296	208	520	1391		
327.8775	32:07	32:07	0	1.253	1432013	190481	55	137	3463	1.57(1.32-1.78)	
PCB-112											
325.8804	32:15	32:15	0	1.258	1847523	370740	208	520	1782		
327.8775	32:15	32:15	0	1.258	1171034	232473	55	137	4227	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:36	32:36	0	1.272	8215337	866347	208	520	4165		M
327.8775	32:36	32:36	0	1.272	5100130	535653	55	137	9739	1.61(1.32-1.78)	M
PCB-85											
325.8804	33:20	33:20	0	1.300	4165810	500407	208	520	2406		
327.8775	33:20	33:20	0	1.300	2593291	302587	55	137	5502	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:20	33:20	0	1.300	4165810	500407	208	520	2406		
327.8775	33:20	33:20	0	1.300	2593291	302587	55	137	5502	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:20	33:20	0	1.300	4165810	500407	208	520	2406		
327.8775	33:20	33:20	0	1.300	2593291	302587	55	137	5502	1.61(1.32-1.78)	
PCB-110											
325.8804	33:33	33:33	0	1.309	3207424	457054	208	520	2197		
327.8775	33:33	33:33	0	1.309	2012360	290154	55	137	5276	1.59(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:33	33:33	0	1.309	3207424	457054	208	520	2197		
327.8775	33:33	33:33	0	1.309	2012360	290154	55	137	5276	1.59(1.32-1.78)	
PCB-82											
325.8804	33:51	33:51	0	1.321	1109650	201159	208	520	967		
327.8775	33:51	33:51	0	1.321	688265	132392	55	137	2407	1.61(1.32-1.78)	
PCB-111											
325.8804	34:13	34:13	0	1.335	1600280	315839	208	520	1518		
327.8775	34:13	34:13	0	1.335	1017927	202410	55	137	3680	1.57(1.32-1.78)	
PCB-120											
325.8804	34:40	34:40	0	1.353	1974848	378582	208	520	1820		
327.8775	34:40	34:40	0	1.353	1224585	238273	55	137	4332	1.61(1.32-1.78)	
PCB-108											
325.8804	35:49	35:49	0	1.397	4344841	824997	1868	4670	442		
327.8775	35:49	35:49	0	1.397	2693668	498625	1327	3317	376	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:49	35:49	0	1.397	4344841	824997	1868	4670	442		
327.8775	35:49	35:49	0	1.397	2693668	498625	1327	3317	376	1.61(1.32-1.78)	
PCB-107											
325.8804	36:04	36:04	0	1.407	2338601	430918	1868	4670	231		
327.8775	36:04	36:04	0	1.407	1499278	276317	1327	3317	208	1.56(1.32-1.78)	
PCB-123											
325.8804	36:11	36:11	0	1.001	1956177	406532	1868	4670	218		
327.8775	36:11	36:11	0	1.001	1246061	262391	1327	3317	198	1.57(1.32-1.78)	
PCB-106											
325.8804	36:18	36:18	0	1.004	2202359	429990	1868	4670	230		
327.8775	36:18	36:18	0	1.004	1369273	266057	1327	3317	200	1.61(1.32-1.78)	
PCB-118											
325.8804	36:30	36:30	0	1.001	2409189	441114	1868	4670	236		
327.8775	36:30	36:30	0	1.001	1537808	281906	1327	3317	212	1.57(1.32-1.78)	
PCB-122											
325.8804	36:52	36:52	0	1.010	1912176	389012	1868	4670	208		
327.8775	36:52	36:52	0	1.010	1196656	243673	1327	3317	184	1.60(1.32-1.78)	
PCB-114											
325.8804	37:02	37:02	0	1.001	2200075	393345	1868	4670	211		
327.8775	37:02	37:02	0	1.001	1407972	250048	1327	3317	188	1.56(1.32-1.78)	
PCB-105											
325.8804	37:41	37:41	0	1.001	2324271	419912	1868	4670	225		
327.8775	37:41	37:41	0	1.001	1483359	275075	1327	3317	207	1.57(1.32-1.78)	
PCB-127											
325.8804	39:09	39:09	0	1.039	2282403	421205	1868	4670	225		
327.8775	39:09	39:09	0	1.039	1487827	268279	1327	3317	202	1.53(1.32-1.78)	
PCB-126											
325.8804	40:46	40:46	0	1.000	2214352	375089	1868	4670	201		
327.8775	40:46	40:46	0	1.000	1397766	246058	1327	3317	185	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:16	31:16	0	0.790	2113002	446036	49	122	9103		
373.8788	31:16	31:16	0	0.790	1641617	342031	87	217	3931	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:20	0	0.900	1260321	250704	1102	2755	227		
373.8788	38:20	38:20	0	0.900	995689	199420	531	1327	376	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:36	39:36	0		2559539	501195	1102	2755	455		
373.8788	39:35	39:36	-1		1986964	383316	531	1327	722	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:35	0	1.075	3316383	636308	1102	2755	577		
373.8788	42:35	42:35	0	1.075	2595472	494885	531	1327	932	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:45	43:45	0	1.105	6478707	797259	1102	2755	723		
373.8788	43:46	43:45	1	1.105	4994141	619467	531	1327	1167	1.30(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:45	43:45	0	1.105	6478707	797259	1102	2755	723		
373.8788	43:46	43:45	1	1.105	4994141	619467	531	1327	1167	1.30(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:58	0	1.186	3416170	617633	1102	2755	560		
373.8788	46:59	46:58	1	1.186	2697023	487081	531	1327	917	1.27(1.05-1.43)	
PCB-155											
359.8415	31:17	31:17	0	1.001	1040671	215793	73	182	2956		
361.8385	31:17	31:17	0	1.001	821062	173492	17	42	10205	1.27(1.05-1.43)	
PCB-152											
359.8415	31:31	31:31	0	1.008	1061727	214227	73	182	2935		
361.8385	31:31	31:31	0	1.008	802938	166914	17	42	9818	1.32(1.05-1.43)	
PCB-150											
359.8415	31:41	31:41	0	1.013	1089244	224775	73	182	3079		
361.8385	31:40	31:41	-1	1.013	882634	174769	17	42	10281	1.23(1.05-1.43)	
PCB-136											
359.8415	32:04	32:04	0	1.026	1076357	216187	73	182	2961		
361.8385	32:04	32:04	0	1.026	846028	173694	17	42	10217	1.27(1.05-1.43)	
PCB-145											
359.8415	32:20	32:20	0	1.034	1088841	221997	73	182	3041		
361.8385	32:20	32:20	0	1.034	841561	173988	17	42	10235	1.29(1.05-1.43)	
PCB-148											
359.8415	33:50	33:50	0	1.082	835113	170103	73	182	2330		
361.8385	33:50	33:50	0	1.082	643597	131166	17	42	7716	1.30(1.05-1.43)	
PCB-135											
359.8415	34:26	34:26	0	1.101	1581874	178802	73	182	2449		M
361.8385	34:26	34:26	0	1.101	1249054	141935	17	42	8349	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:26	34:26	0	1.101	1581874	178802	73	182	2449		M
361.8385	34:26	34:26	0	1.101	1249054	141935	17	42	8349	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:40	34:40	0	1.109	927543	182491	73	182	2500		
361.8385	34:40	34:40	0	1.109	719492	144228	17	42	8484	1.29(1.05-1.43)	
PCB-144											
359.8415	35:00	35:00	0	1.119	867927	173627	73	182	2378		
361.8385	35:00	35:00	0	1.119	663207	132532	17	42	7796	1.31(1.05-1.43)	
PCB-147											
359.8415	35:22	35:22	0	1.131	2704411	542066	807	2017	672		
361.8385	35:22	35:22	0	1.131	2178386	430535	531	1327	811	1.24(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:22	35:22	0	1.131	2704411	542066	807	2017	672		
361.8385	35:22	35:22	0	1.131	2178386	430535	531	1327	811	1.24(1.05-1.43)	
PCB-134											
359.8415	35:40	35:40	0	1.141	2342721	247874	807	2017	307		
361.8385	35:40	35:40	0	1.141	1846058	202039	531	1327	380	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:40	35:40	0	1.141	2342721	247874	807	2017	307		
361.8385	35:40	35:40	0	1.141	1846058	202039	531	1327	380	1.27(1.05-1.43)	
PCB-139											
359.8415	35:57	35:57	0	1.150	2577687	453964	807	2017	563		
361.8385	35:57	35:57	0	1.150	2050275	362910	531	1327	683	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:57	35:57	0	1.150	2577687	453964	807	2017	563		
361.8385	35:57	35:57	0	1.150	2050275	362910	531	1327	683	1.26(1.05-1.43)	
PCB-131											
359.8415	36:10	36:10	0	1.157	1110236	227715	807	2017	282		
361.8385	36:10	36:10	0	1.157	861366	174253	531	1327	328	1.29(1.05-1.43)	
PCB-142											
359.8415	36:19	36:19	0	1.162	1187504	233908	807	2017	290		
361.8385	36:19	36:19	0	1.162	937180	190428	531	1327	359	1.27(1.05-1.43)	
PCB-132											
359.8415	36:38	36:38	0	1.172	1076394	209542	807	2017	260		
361.8385	36:38	36:38	0	1.172	863519	171569	531	1327	323	1.25(1.05-1.43)	
PCB-133											
359.8415	37:07	37:07	0	1.187	1176369	228916	807	2017	284		
361.8385	37:07	37:07	0	1.187	902573	177535	531	1327	334	1.30(1.05-1.43)	
PCB-165											
359.8415	37:30	37:30	0	0.881	1620035	333255	807	2017	413		
361.8385	37:30	37:30	0	0.881	1262142	263169	531	1327	496	1.28(1.05-1.43)	
PCB-146											
359.8415	37:45	37:45	0	0.887	1397738	288642	807	2017	358		
361.8385	37:45	37:45	0	0.887	1176175	228404	531	1327	430	1.19(1.05-1.43)	
PCB-161											
359.8415	37:52	37:52	0	0.890	1736167	326395	807	2017	404		
361.8385	37:53	37:52	1	0.890	1317972	254335	531	1327	479	1.32(1.05-1.43)	
PCB-153											
359.8415	38:23	38:23	0	0.902	3362727	492537	807	2017	610		
361.8385	38:23	38:23	0	0.902	2670262	386703	531	1327	728	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:23	38:23	0	0.902	3362727	492537	807	2017	610		
361.8385	38:23	38:23	0	0.902	2670262	386703	531	1327	728	1.26(1.05-1.43)	
PCB-141											
359.8415	38:34	38:34	0	0.906	1317436	245333	807	2017	304		
361.8385	38:34	38:34	0	0.906	1049917	195044	531	1327	367	1.25(1.05-1.43)	
PCB-130											
359.8415	38:59	38:59	0	0.915	1078353	212768	807	2017	264		
361.8385	38:59	38:59	0	0.915	852118	174635	531	1327	329	1.27(1.05-1.43)	
PCB-137											
359.8415	39:11	39:11	0	0.920	1221627	246823	807	2017	306		
361.8385	39:11	39:11	0	0.920	970576	190454	531	1327	359	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:19	39:19	0	0.923	1700066	334884	807	2017	415		
361.8385	39:19	39:19	0	0.923	1293065	254607	531	1327	479	1.31(1.05-1.43)	
PCB-129											
359.8415	39:37	39:37	0	0.931	5781725	625985	807	2017	776		M
361.8385	39:37	39:37	0	0.931	4687044	500088	531	1327	942	1.23(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:37	39:37	0	0.931	5781725	625985	807	2017	776		M
361.8385	39:37	39:37	0	0.931	4687044	500088	531	1327	942	1.23(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:37	39:37	0	0.931	5781725	625985	807	2017	776		M
361.8385	39:37	39:37	0	0.931	4687044	500088	531	1327	942	1.23(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:37	39:37	0	0.931	5781725	625985	807	2017	776		M
361.8385	39:37	39:37	0	0.931	4687044	500088	531	1327	942	1.23(1.05-1.43)	M
PCB-158											
359.8415	40:00	40:00	0	0.940	2048049	376719	807	2017	467		
361.8385	40:00	40:00	0	0.940	1620346	298022	531	1327	561	1.26(1.05-1.43)	
PCB-128											
359.8415	40:51	40:51	0	0.960	3082624	406399	807	2017	504		
361.8385	40:51	40:51	0	0.960	2478747	322829	531	1327	608	1.24(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:51	40:51	0	0.960	3082624	406399	807	2017	504		
361.8385	40:51	40:51	0	0.960	2478747	322829	531	1327	608	1.24(1.05-1.43)	
PCB-159											
359.8415	41:50	41:50	0	0.983	2173861	443408	807	2017	549		
361.8385	41:50	41:50	0	0.983	1733641	353602	531	1327	666	1.25(1.05-1.43)	
PCB-162											
359.8415	42:08	42:08	0	0.990	2035466	367862	807	2017	456		
361.8385	42:08	42:08	0	0.990	1611667	295396	531	1327	556	1.26(1.05-1.43)	
PCB-167											
359.8415	42:36	42:36	0	1.001	1815917	343885	807	2017	426		
361.8385	42:36	42:36	0	1.001	1408838	265819	531	1327	501	1.29(1.05-1.43)	
PCB-156											
359.8415	43:46	43:46	0	1.001	3598094	446620	807	2017	553		
361.8385	43:46	43:46	-1	1.000	2828693	351451	531	1327	662	1.27(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:46	43:46	0	1.001	3598094	446620	807	2017	553		
361.8385	43:46	43:46	-1	1.000	2828693	351451	531	1327	662	1.27(1.05-1.43)	
PCB-169											
359.8415	46:59	46:59	0	1.001	1954292	341966	807	2017	424		
361.8385	46:59	46:59	0	1.001	1542536	268381	531	1327	505	1.27(1.05-1.43)	
PCB-188L											
405.8428	36:59	36:59	0	0.820	2216229	437889	94	235	4658		
407.8398	36:59	36:59	0	0.820	2115542	424845	52	130	8170	1.05(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:02	40:02	0	0.888	837881	167330	94	235	1780		
407.8398	40:02	40:02	0	0.888	783438	151688	52	130	2917	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:07	0		1848593	361206	94	235	3843		
407.8398	45:07	45:07	0		1686236	330383	52	130	6354	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:23	0	1.028	1530889	289504	94	235	3080		
407.8398	46:23	46:23	0	1.028	1432575	275444	52	130	5297	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:28	0	1.097	3505229	643628	1474	3685	437		
407.8398	49:28	49:28	0	1.097	3294476	599725	1422	3555	422	1.06(0.89-1.21)	
PCB-188											
393.8025	37:00	37:00	0	1.001	1286763	254761	43	107	5925		
395.7995	37:00	37:00	0	1.001	1209418	244864	59	147	4150	1.06(0.89-1.21)	
PCB-179											
393.8025	37:23	37:23	0	1.011	1289661	254291	43	107	5914		
395.7995	37:23	37:23	0	1.011	1208423	240988	59	147	4085	1.07(0.89-1.21)	
PCB-184											
393.8025	37:52	37:52	0	1.024	1291103	255559	43	107	5943		
395.7995	37:52	37:52	0	1.024	1223467	251089	59	147	4256	1.06(0.89-1.21)	
PCB-176											
393.8025	38:15	38:15	0	1.034	1143220	226694	43	107	5272		
395.7995	38:15	38:15	0	1.034	1063647	206845	59	147	3506	1.07(0.89-1.21)	
PCB-186											
393.8025	38:42	38:42	0	1.047	1428282	282818	43	107	6577		
395.7995	38:42	38:42	0	1.047	1346541	257372	59	147	4362	1.06(0.89-1.21)	
PCB-178											
393.8025	40:04	40:04	0	1.083	851298	170263	43	107	3960		
395.7995	40:04	40:04	0	1.083	815661	159368	59	147	2701	1.04(0.89-1.21)	
PCB-175											
393.8025	40:41	40:41	0	1.100	928297	184607	43	107	4293		
395.7995	40:42	40:41	1	1.101	889138	176313	59	147	2988	1.04(0.89-1.21)	
PCB-187											
393.8025	40:58	40:58	0	1.108	1087481	215378	43	107	5009		
395.7995	40:58	40:58	0	1.108	1003791	192892	59	147	3269	1.08(0.89-1.21)	
PCB-182											
393.8025	41:09	41:09	0	1.113	941258	175829	43	107	4089		
395.7995	41:09	41:09	0	1.113	892324	169127	59	147	2867	1.05(0.89-1.21)	
PCB-183											
393.8025	41:34	41:34	0	1.124	1827264	187068	43	107	4350		M
395.7995	41:34	41:34	0	1.124	1702054	177498	59	147	3008	1.07(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:34	41:34	0	1.124	1827264	187068	43	107	4350		M
395.7995	41:34	41:34	0	1.124	1702054	177498	59	147	3008	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:50	41:50	0	1.131	963631	188503	43	107	4384		
395.7995	41:50	41:50	0	1.131	903429	178913	59	147	3032	1.07(0.89-1.21)	
PCB-177											
393.8025	42:16	42:16	0	1.143	965234	185060	43	107	4304		
395.7995	42:16	42:16	0	1.143	912174	174740	59	147	2962	1.06(0.89-1.21)	
PCB-181											
393.8025	42:39	42:39	0	1.153	925516	174618	43	107	4061		
395.7995	42:39	42:39	0	1.153	879276	172752	59	147	2928	1.05(0.89-1.21)	
PCB-171											
393.8025	42:52	42:52	0	1.159	1751918	321849	43	107	7485		
395.7995	42:52	42:52	0	1.159	1685826	294372	59	147	4989	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:52	42:52	0	1.159	1751918	321849	43	107	7485		
395.7995	42:52	42:52	0	1.159	1685826	294372	59	147	4989	1.04(0.89-1.21)	
PCB-172											
393.8025	44:30	44:30	0	0.899	871534	167782	43	107	3902		
395.7995	44:30	44:30	0	0.899	794208	152273	59	147	2581	1.10(0.89-1.21)	
PCB-192											
393.8025	44:46	44:46	0	0.905	1437214	275640	43	107	6410		
395.7995	44:46	44:46	0	0.905	1372461	259847	59	147	4404	1.05(0.89-1.21)	
PCB-180											
393.8025	45:07	45:07	0	0.912	2369584	333618	43	107	7759		
395.7995	45:06	45:07	-1	0.912	2211175	324131	59	147	5494	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:07	45:07	0	0.912	2369584	333618	43	107	7759		
395.7995	45:06	45:07	-1	0.912	2211175	324131	59	147	5494	1.07(0.89-1.21)	
PCB-191											
393.8025	45:30	45:30	0	0.920	1363192	248839	43	107	5787		
395.7995	45:30	45:30	0	0.920	1273982	245006	59	147	4153	1.07(0.89-1.21)	
PCB-170											
393.8025	46:25	46:25	0	0.938	883135	167711	43	107	3900		
395.7995	46:24	46:25	-1	0.938	857707	167520	59	147	2839	1.03(0.89-1.21)	
PCB-190											
393.8025	46:55	46:55	0	0.948	1441458	265966	43	107	6185		M
395.7995	46:55	46:55	-1	0.948	1314605	241667	59	147	4096	1.10(0.89-1.21)	M
PCB-189											
393.8025	49:30	49:30	0	1.001	1770185	327344	482	1205	679		
395.7995	49:30	49:30	0	1.001	1696639	321126	462	1155	695	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:20	42:20	0	0.821	1652787	323052	129	322	2504		
441.8008	42:21	42:20	1	0.821	1809662	349304	73	182	4785	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:35	0		2295364	428423	156	390	2746		
441.8008	51:35	51:35	0		2487999	463408	169	422	2742	0.92(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:03	52:03	0	1.009	2741559	505151	156	390	3238		
441.8008	52:03	52:03	0	1.009	3058061	568001	169	422	3361	0.90(0.76-1.02)	
PCB-202											
427.7635	42:22	42:22	0	1.001	903019	176481	151	377	1169		
429.7606	42:22	42:22	0	1.001	995205	197247	90	225	2192	0.91(0.76-1.02)	
PCB-201											
427.7635	43:17	43:17	0	1.022	836033	160257	151	377	1061		
429.7606	43:17	43:17	0	1.022	927430	176049	90	225	1956	0.90(0.76-1.02)	
PCB-204											
427.7635	43:57	43:57	0	1.038	895049	170134	151	377	1127		
429.7606	43:57	43:57	0	1.038	979674	187922	90	225	2088	0.91(0.76-1.02)	
PCB-197											
427.7635	44:11	44:11	0	1.043	969325	179574	151	377	1189		
429.7606	44:11	44:11	0	1.043	1028764	193492	90	225	2150	0.94(0.76-1.02)	
PCB-200											
427.7635	44:19	44:19	0	1.047	834727	166274	151	377	1101		
429.7606	44:19	44:19	0	1.047	945394	188341	90	225	2093	0.88(0.76-1.02)	
PCB-198											
427.7635	47:04	47:04	0	1.112	1458927	182475	151	377	1208		
429.7606	47:04	47:04	0	1.112	1622693	200750	90	225	2231	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:04	47:04	0	1.112	1458927	182475	151	377	1208		
429.7606	47:04	47:04	0	1.112	1622693	200750	90	225	2231	0.90(0.76-1.02)	
PCB-196											
427.7635	47:44	47:44	0	0.917	660314	131891	151	377	873		
429.7606	47:44	47:44	0	0.917	744170	142305	90	225	1581	0.89(0.76-1.02)	
PCB-203											
427.7635	47:56	47:56	0	0.921	835955	158655	151	377	1051		
429.7606	47:56	47:56	0	0.921	906029	171899	90	225	1910	0.92(0.76-1.02)	
PCB-195											
427.7635	49:16	49:16	0	0.947	1115711	201620	383	957	526		
429.7606	49:16	49:16	0	0.947	1229431	230090	295	737	780	0.91(0.76-1.02)	
PCB-194											
427.7635	51:36	51:36	0	0.991	1264488	230456	383	957	602		
429.7606	51:36	51:36	0	0.991	1437223	269665	295	737	914	0.88(0.76-1.02)	
PCB-205											
427.7635	52:04	52:04	0	1.000	1464493	278271	383	957	727		
429.7606	52:04	52:04	0	1.000	1651719	312592	295	737	1060	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:00	49:00	0	0.950	2096065	405577	278	695	1459		
475.7619	49:00	49:00	0	0.950	2622915	503619	233	582	2161	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:48	0	1.043	1560092	283421	278	695	1020		
475.7619	53:48	53:48	0	1.043	1940615	361920	233	582	1553	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:01	49:01	0	1.000	1185988	224312	275	687	816		
463.7216	49:01	49:01	0	1.000	1498599	283003	1468	3670	193	0.79(0.65-0.89)	
PCB-207											
461.7246	49:56	49:56	0	1.019	1174225	223800	275	687	814		
463.7216	49:56	49:56	0	1.019	1496445	280830	1468	3670	191	0.78(0.65-0.89)	
PCB-206											
461.7246	53:49	53:49	0	1.000	972184	184436	275	687	671		
463.7216	53:49	53:49	0	1.000	1222220	234751	1468	3670	160	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:24	55:24	0	1.074	1511895	265203	125	312	2122		
509.7229	55:24	55:24	0	1.074	2120262	368975	70	175	5271	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:25	0	1.000	831767	140286	146	365	961		
497.6826	55:26	55:25	1	1.000	1174413	199331	106	265	1880	0.71(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 15-Jul-2024 12:43:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033504-001
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 16-Jul-2024 18:24:57 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1661
 First Level Reviewer: F9EE Date: 15-Jul-2024 13:57:17
 Start Cal Date: 31-May-2024 14:36:00
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:39	5	15	0.7253	0.7285	0.717 - 0.7472
PCB-3L		13:43	13:47	4	15	0.8606	0.8626	0.849 - 0.8798
PCB-1	L	11:35	11:40	5		1.0011	1.0011	0.995 - 1.0085
PCB-2		13:34	13:38	4		0.9885	0.9886	0.985 - 0.9925
PCB-3	L	13:44	13:48	4		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	14:02	4	15	0.8771	0.8783	0.865 - 0.8956
PCB-9L		15:57	15:59	3		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:50	2		1.1991	1.1986	1.192 - 1.1989
PCB-15L		19:52	19:53	2	15	1.2459	1.2443	1.233 - 1.2530
PCB-4	L	14:00	14:04	4		1.0009	1.0019	0.994 - 1.0058
PCB-10		14:10	14:13	4		1.0132	1.0131	1.010 - 1.0168
PCB-9		15:58	16:00	2		1.1421	1.1395	1.135 - 1.1415
PCB-7		16:08	16:10	3		1.1534	1.1517	1.147 - 1.1538
PCB-6		16:22	16:25	4		1.1703	1.1695	1.164 - 1.1706
PCB-5		16:41	16:43	3		1.1929	1.1911	1.186 - 1.1926
PCB-8		16:48	16:50	3		1.2013	1.1995	1.194 - 1.2008
PCB-14		18:26	18:27	1		0.9278	0.9273	0.926 - 0.9305
PCB-11		19:16	19:17	1		0.9702	0.9696	0.968 - 0.9725
PCB-12/13		19:34	19:35	2		0.9848	0.9848	0.983 - 0.9875
PCB-15	L	19:53	19:54	1		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:08	3	15	0.8402	0.8417	0.831 - 0.8547
PCB-32L		20:20	20:21	1		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:36	0		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:53	-2		1.0130	1.0125	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:53	0	15	1.1902	1.1902	1.178 - 1.1995
PCB-19	L	17:06	17:08	3		1.0008	1.0008	0.996 - 1.0058
PCB-18/30		18:57	18:56	0		1.1085	1.1052	1.104 - 1.1093
PCB-17		19:23	19:24	1		1.1347	1.1328	1.129 - 1.1352
PCB-27		19:37	19:37	0		1.1478	1.1451	1.141 - 1.1471
PCB-24		19:44	19:45	1		1.1547	1.1528	1.148 - 1.1542
PCB-16		19:51	19:52	1		1.1617	1.1597	1.156 - 1.1621
PCB-32		20:22	20:22	1		1.1917	1.1896	1.185 - 1.1908
PCB-34		21:37	21:37	0		1.2654	1.2618	1.257 - 1.2623
PCB-23		21:47	21:45	-1		1.2744	1.2701	1.266 - 1.2715
PCB-26/29		22:06	22:05	0		1.2931	1.2895	1.282 - 1.2915
PCB-25		22:19	22:18	0		0.8293	0.8292	0.829 - 0.8325
PCB-31		22:38	22:37	0		0.8412	0.8411	0.840 - 0.8438
PCB-20/28		22:56	22:56	0		0.8526	0.8526	0.851 - 0.8568
PCB-21/33		23:06	23:05	-1		0.8588	0.8583	0.858 - 0.8637
PCB-22		23:33	23:33	0		0.8754	0.8759	0.875 - 0.8786
PCB-36		25:07	25:05	-1		0.9334	0.9330	0.932 - 0.9352
PCB-39		25:28	25:27	-1		0.9467	0.9463	0.945 - 0.9483
PCB-38		26:03	26:01	-1		0.9681	0.9677	0.966 - 0.9695
PCB-35		26:31	26:30	-1		0.9857	0.9853	0.984 - 0.9875
PCB-37	L	26:55	26:54	0		1.0005	1.0005	0.999 - 1.0024
PCB-54L		20:10	20:11	2	15	0.8149	0.8168	0.811 - 0.8247
PCB-52L		24:45	24:43	-1		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:36	-4		0.9707	0.9700	0.969 - 0.9718
PCB-81L		33:40	33:37	-2	15	1.3604	1.3600	1.351 - 1.3641
PCB-77L		34:13	34:11	-2	15	1.3832	1.3828	1.373 - 1.3867
PCB-54	L	20:12	20:12	1		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:21	-1		1.1097	1.1071	1.102 - 1.1106
PCB-45/51		23:06	23:05	-1		1.1459	1.1432	1.137 - 1.1453
PCB-46		23:20	23:20	0		1.1573	1.1559	1.153 - 1.1576
PCB-52		24:46	24:44	-2		1.2284	1.2250	1.222 - 1.2263
PCB-43/73		24:55	24:52	-2		1.2353	1.2320	1.230 - 1.2346
PCB-49/69		25:12	25:09	-3		1.2499	1.2459	1.242 - 1.2499
PCB-48		25:32	25:30	-2		1.2665	1.2630	1.259 - 1.2636
PCB-44/47/65		25:47	25:44	-2		1.2785	1.2751	1.269 - 1.2770
PCB-59/62/75		26:05	26:03	-1		1.2931	1.2903	1.284 - 1.2919
PCB-42		26:17	26:15	-1		1.3033	1.3004	1.296 - 1.3007
PCB-40/41/71		26:47	26:45	-1		1.3280	*1.3251	1.317 - 1.3250
PCB-64		27:00	26:57	-2		1.3388	1.3352	1.331 - 1.3355
PCB-72		27:50	27:47	-3		0.8271	0.8266	0.826 - 0.8291
PCB-68		28:07	28:04	-3		0.8354	0.8349	0.835 - 0.8375
PCB-57		28:33	28:29	-3		0.8480	0.8475	0.847 - 0.8500
PCB-58		28:47	28:44	-3		0.8552	0.8547	0.854 - 0.8574
PCB-67		28:57	28:53	-4		0.8601	0.8593	0.859 - 0.8620
PCB-63		29:13	29:09	-3		0.8677	0.8673	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:30	-3		0.8780	0.8775	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:49	-3		0.8875	0.8870	0.886 - 0.8894
PCB-55		30:02	29:59	-2		0.8920	0.8920	0.891 - 0.8943
PCB-56		30:32	30:30	-2		0.9072	0.9072	0.907 - 0.9098
PCB-60		30:45	30:42	-3		0.9137	0.9133	0.913 - 0.9158
PCB-80		31:10	31:06	-4		0.9259	0.9251	0.924 - 0.9268
PCB-79		32:42	32:38	-4		0.9715	0.9707	0.970 - 0.9726
PCB-78		33:15	33:12	-3		0.9878	0.9875	0.986 - 0.9890
PCB-81	T	33:41	33:38	-3		1.0008	1.0004	0.999 - 1.0020
PCB-77	T/L	34:15	34:12	-2		1.0007	1.0007	0.999 - 1.0019
PCB-104L		25:42	25:38	-3	15	0.8129	0.8134	0.810 - 0.8199
PCB-95L		28:40	28:37	-2		1.1155	1.1162	1.112 - 1.1179
PCB-101L		31:36	31:31	-5		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:11	-6		1.0850	1.0848	1.079 - 1.0891
PCB-123L		36:15	36:09	-5	15	1.1469	1.1471	1.141 - 1.1511
PCB-118L		36:34	36:29	-5	15	1.1573	1.1575	1.151 - 1.1614
PCB-114L		37:06	37:00	-5	15	1.1739	1.1742	1.168 - 1.1780
PCB-105L		37:44	37:40	-4	15	1.1943	1.1951	1.188 - 1.1989
PCB-127L		39:13	39:07	-5		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:45	-4	15	1.2917	1.2930	1.285 - 1.2956
PCB-104	L	25:42	25:40	-2		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:04	0		1.0149	1.0165	1.013 - 1.0195
PCB-103		28:01	27:57	-4		1.0907	1.0903	1.087 - 1.0912
PCB-94		28:14	28:12	-2		1.0991	1.0997	1.097 - 1.1003
PCB-95		28:41	28:39	-2		1.1165	1.1172	1.113 - 1.1193
PCB-93/100		28:54	28:50	-4		1.1250	1.1247	1.120 - 1.1267
PCB-98/102		29:03	29:00	-3		1.1310	1.1311	1.127 - 1.1336
PCB-88/91		29:33	29:29	-3		1.1499	1.1501	1.143 - 1.1505
PCB-84		29:46	29:44	-1		1.1584	1.1596	1.157 - 1.1603
PCB-89		30:15	30:12	-2		1.1773	1.1780	1.175 - 1.1786
PCB-121		30:40	30:34	-5		1.1937	*1.1925	1.188 - 1.1922
PCB-92		31:02	30:58	-4		0.8564	0.8566	0.856 - 0.8589
PCB-90/101/113		31:37	31:32	-5		1.2306	1.2299	1.224 - 1.2307
PCB-83/99		32:12	32:07	-5		1.2535	*1.2528	1.245 - 1.2525
PCB-112		32:19	32:15	-4		1.2580	*1.2578	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:36	-5		1.2724	1.2718	1.265 - 1.2756
PCB-85/116/117		33:25	33:20	-5		1.3008	1.3002	1.293 - 1.3007
PCB-110/115		33:36	33:33	-2		1.3078	1.3087	1.303 - 1.3092
PCB-82		33:54	33:51	-2		1.3198	*1.3206	1.316 - 1.3194
PCB-111		34:19	34:13	-5		1.3357	*1.3346	1.329 - 1.3330
PCB-120		34:46	34:40	-5		1.3531	*1.3526	1.348 - 1.3514
PCB-108/124		35:54	35:49	-4		1.3975	*1.3974	1.390 - 1.3967
PCB-107		36:09	36:04	-5		1.4072	*1.4066	1.401 - 1.4049
PCB-123	T	36:16	36:11	-5		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:18	-4		1.0036	1.0040	1.003 - 1.0057
PCB-118	T	36:35	36:30	-4		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:52	-4		1.0101	1.0105	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:02	-4		1.0004	1.0007	0.999 - 1.0018
PCB-105	T	37:46	37:41	-4		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:09	-5		1.0397	1.0394	1.037 - 1.0399
PCB-126	T/L	40:51	40:46	-4		1.0006	1.0003	1.000 - 1.0016
PCB-155L		31:22	31:16	-6	15	0.7904	0.7895	0.787 - 0.7951
PCB-153L		38:27	38:20	-6		0.9005	0.9003	0.899 - 0.9028
PCB-138L		39:41	39:36	-5		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:35	-7	15	1.0759	1.0753	1.071 - 1.0792
PCB-156L/157L		43:51	43:45	-6	15	1.1050	1.1049	1.100 - 1.1084
PCB-169L		47:05	46:58	-6	15	1.1862	1.1861	1.184 - 1.1864
PCB-155	L	31:24	31:17	-6		1.0008	1.0008	0.998 - 1.0031
PCB-152		31:35	31:31	-4		1.0069	1.0082	1.006 - 1.0096
PCB-150		31:45	31:41	-4		1.0122	1.0135	1.011 - 1.0144
PCB-136		32:07	32:04	-2		1.0236	1.0258	1.024 - 1.0268
PCB-145		32:24	32:20	-4		1.0330	1.0344	1.033 - 1.0358
PCB-148		33:56	33:50	-5		1.0816	1.0822	1.080 - 1.0830
PCB-135/151		34:31	34:26	-5		1.1004	1.1014	1.099 - 1.1038
PCB-154		34:46	34:40	-6		1.1085	1.1092	1.106 - 1.1107
PCB-144		35:05	35:00	-5		1.1183	1.1194	1.117 - 1.1199
PCB-147/149		35:27	35:22	-5		1.1301	1.1313	1.127 - 1.1326
PCB-134/143		35:45	35:40	-4		1.1394	1.1409	1.136 - 1.1409
PCB-139/140		36:03	35:57	-5		1.1490	1.1502	1.146 - 1.1515
PCB-131		36:15	36:10	-4		1.1553	1.1569	1.154 - 1.1571
PCB-142		36:23	36:19	-4		1.1599	1.1615	1.159 - 1.1621
PCB-132		36:42	36:38	-3		1.1700	1.1720	1.168 - 1.1728
PCB-133		37:13	37:07	-6		1.1863	1.1872	1.184 - 1.1872
PCB-165		37:37	37:30	-6		0.8808	0.8809	0.880 - 0.8825
PCB-146		37:52	37:45	-6		0.8867	0.8868	0.886 - 0.8882
PCB-161		37:59	37:52	-6		0.8897	0.8895	0.889 - 0.8914
PCB-153/168		38:29	38:23	-6		0.9014	0.9016	0.900 - 0.9040
PCB-141		38:40	38:34	-5		0.9054	0.9059	0.905 - 0.9075
PCB-130		39:04	38:59	-5		0.9150	0.9155	0.915 - 0.9172
PCB-137		39:18	39:11	-6		0.9202	0.9204	0.920 - 0.9224
PCB-164		39:25	39:19	-5		0.9230	0.9235	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:37	-6		0.9304	0.9306	0.930 - 0.9349
PCB-158		40:06	40:00	-6		0.9393	0.9395	0.939 - 0.9409
PCB-128/166		40:57	40:51	-5		0.9590	0.9596	0.958 - 0.9617
PCB-159		41:58	41:50	-7		0.9828	0.9827	0.982 - 0.9839
PCB-162		42:15	42:08	-7		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:36	-7		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:46	-6		1.0006	1.0006	0.999 - 1.0025
PCB-169	T/L	47:06	46:59	-6		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	36:59	-6	15	0.8198	0.8197	0.817 - 0.8243
PCB-178L		40:09	40:02	-6		0.8875	0.8876	0.884 - 0.8916
PCB-180L		45:15	45:07	-8		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:23	-6	15	1.0276	1.0283	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:28	-8	15	1.0965	1.0967	1.093 - 1.1000
PCB-188	L	37:07	37:00	-6		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:23	-4		1.0096	1.0107	1.009 - 1.0115
PCB-184		37:59	37:52	-7		1.0241	1.0238	1.023 - 1.0254
PCB-176		38:20	38:15	-5		1.0333	1.0341	1.033 - 1.0351
PCB-186		38:48	38:42	-5		1.0457	1.0465	1.045 - 1.0476
PCB-178		40:10	40:04	-6		1.0830	1.0835	1.081 - 1.0837
PCB-175		40:48	40:41	-7		1.1000	1.1002	1.098 - 1.1008
PCB-187		41:05	40:58	-7		1.1074	1.1076	1.106 - 1.1082
PCB-182		41:17	41:09	-7		1.1127	1.1130	1.111 - 1.1137
PCB-183/185		41:42	41:34	-7		1.1241	1.1240	1.123 - 1.1260
PCB-174		41:56	41:50	-6		1.1305	1.1311	1.129 - 1.1313
PCB-177		42:22	42:16	-6		1.1422	1.1428	1.140 - 1.1430
PCB-181		42:45	42:39	-6		1.1524	1.1531	1.151 - 1.1535
PCB-171/173		42:58	42:52	-6		1.1585	1.1592	1.156 - 1.1602
PCB-172		44:37	44:30	-7		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:46	-7		0.9049	0.9049	0.904 - 0.9060
PCB-180/193		45:14	45:07	-7		0.9117	0.9118	0.911 - 0.9130
PCB-191		45:37	45:30	-7		0.9194	0.9195	0.919 - 0.9209
PCB-170		46:31	46:25	-6		0.9377	0.9381	0.937 - 0.9392
PCB-190		47:02	46:55	-6		0.9481	0.9485	0.948 - 0.9496
PCB-189	T/L	49:38	49:30	-7		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:20	-7	15	0.8211	0.8208	0.819 - 0.8249
PCB-194L		51:43	51:35	-7		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:03	-8	15	1.0092	1.0089	1.004 - 1.0138
PCB-202	L	42:29	42:22	-7		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:17	-7		1.0223	1.0223	1.020 - 1.0237
PCB-204		44:05	43:57	-8		1.0381	1.0379	1.036 - 1.0388
PCB-197		44:19	44:11	-8		1.0437	1.0435	1.042 - 1.0445
PCB-200		44:25	44:19	-6		1.0462	1.0466	1.045 - 1.0473
PCB-198/199		47:12	47:04	-7		1.1115	1.1117	1.109 - 1.1132
PCB-196		47:53	47:44	-8		0.9175	0.9173	0.917 - 0.9189
PCB-203		48:05	47:56	-8		0.9212	0.9210	0.921 - 0.9226
PCB-195		49:24	49:16	-7		0.9465	0.9467	0.946 - 0.9481
PCB-194		51:44	51:36	-8		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:04	-8		1.0005	1.0005	0.999 - 1.0013
PCB-208L		49:08	49:00	-8	15	0.9503	0.9499	0.947 - 0.9534
PCB-206L		53:56	53:48	-8	15	1.0431	1.0429	1.038 - 1.0472
PCB-208	L	49:10	49:01	-9		1.0005	1.0003	0.999 - 1.0013
PCB-207		50:05	49:56	-9		1.0193	1.0191	1.019 - 1.0205
PCB-206	L	53:58	53:49	-8		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:24	-10	15	1.0748	1.0741	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:25	-10		1.0002	1.0002	0.999 - 1.0012

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

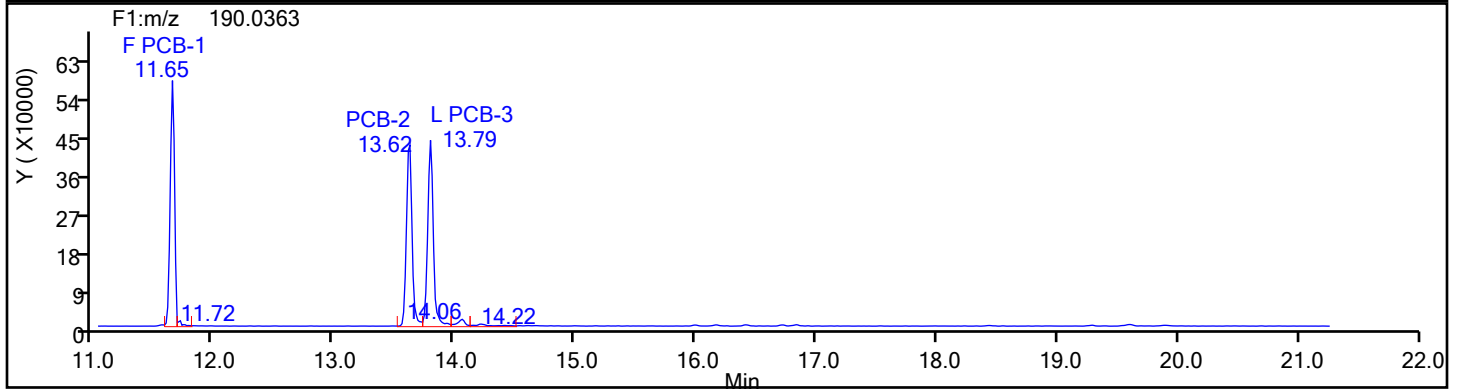
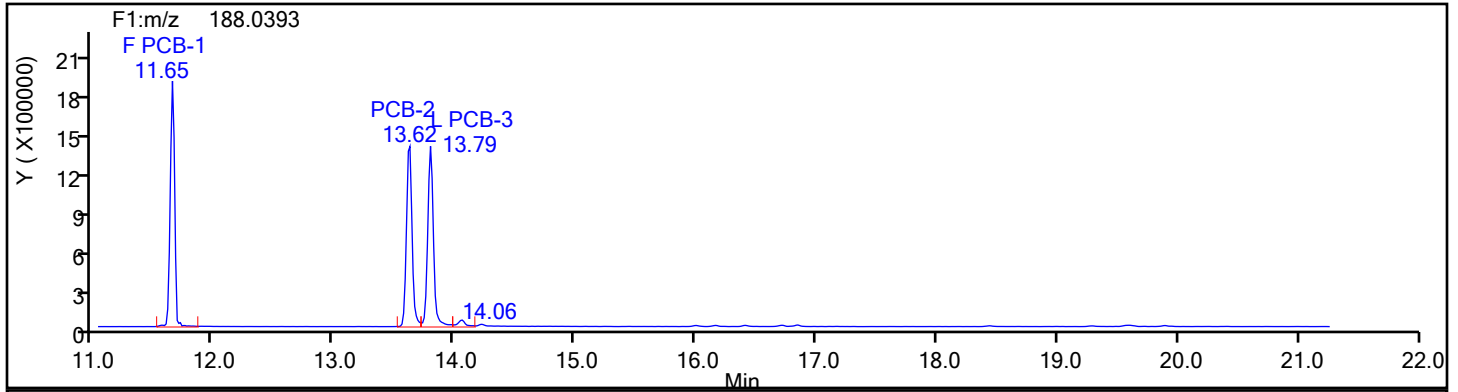
Worklist#: 88747

Sample Line#: 1

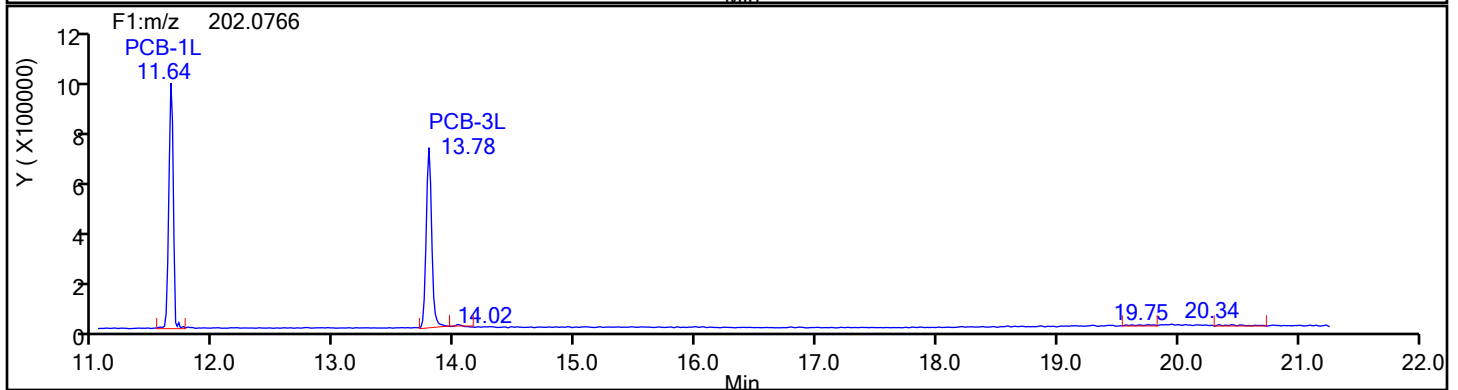
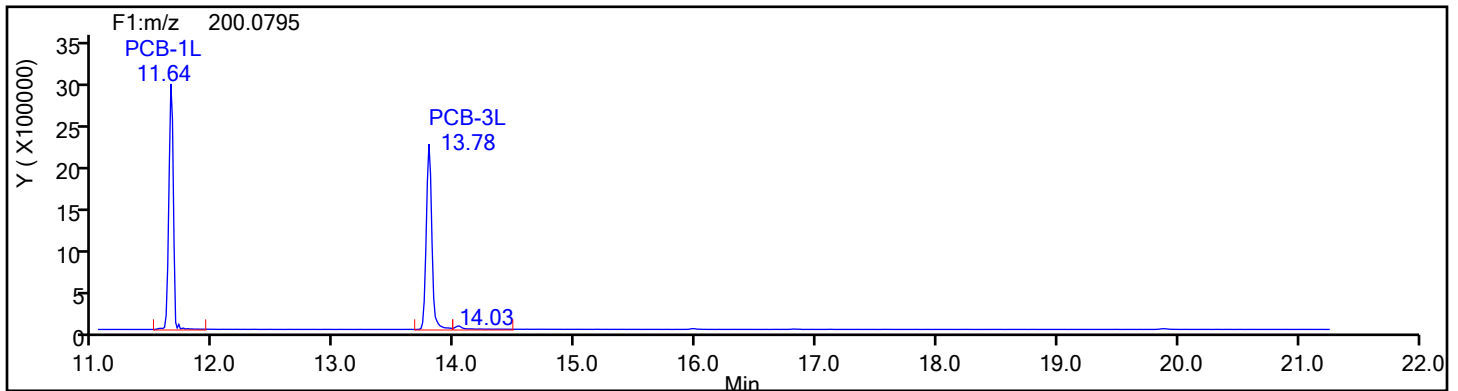
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

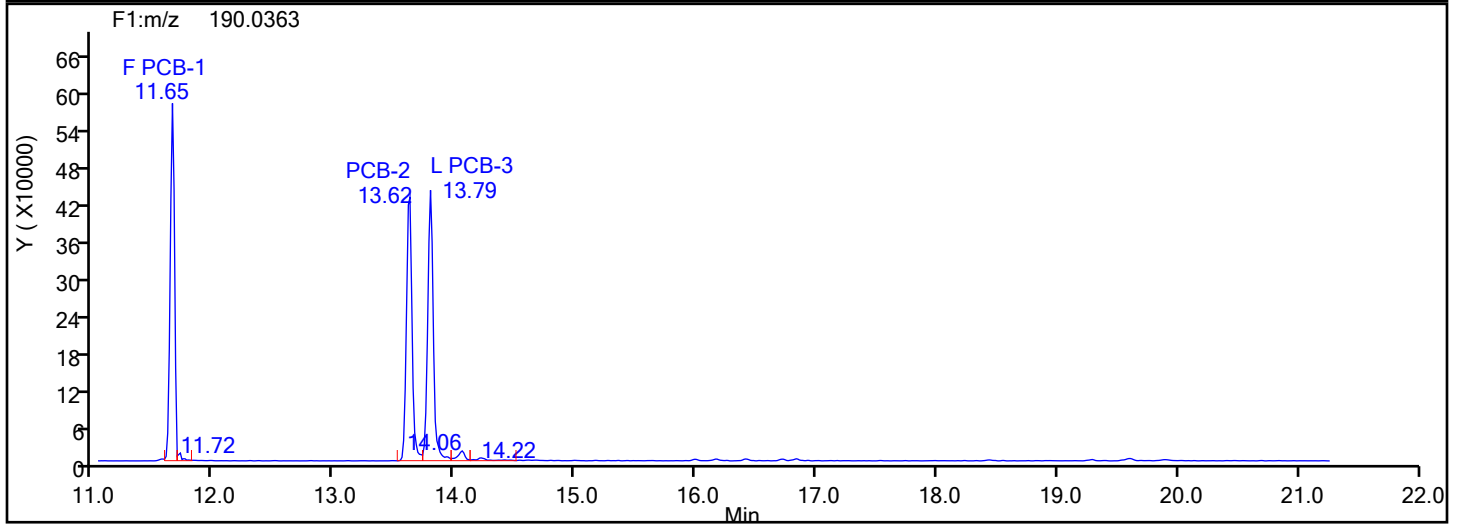
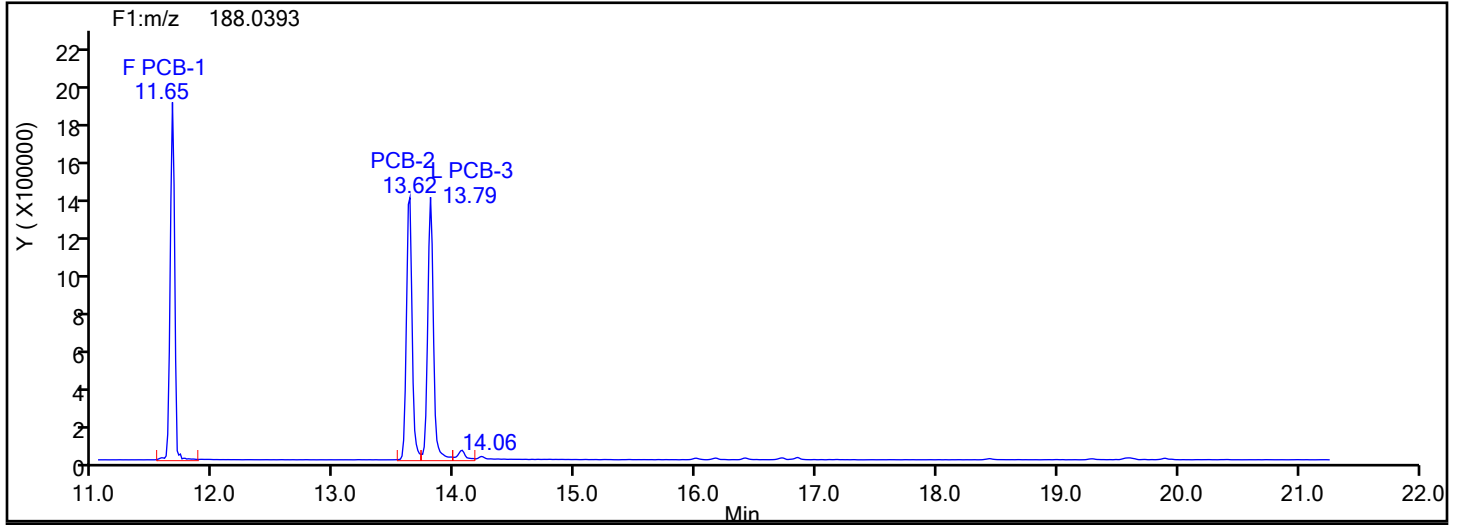


MoPCB F1 Standards

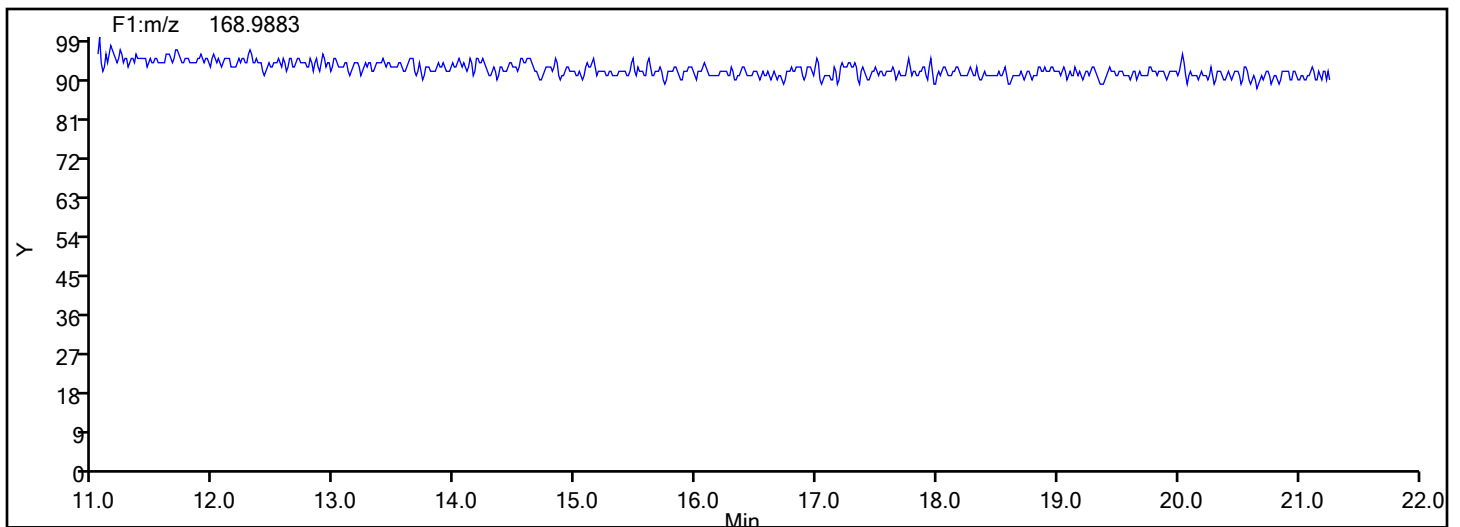


Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

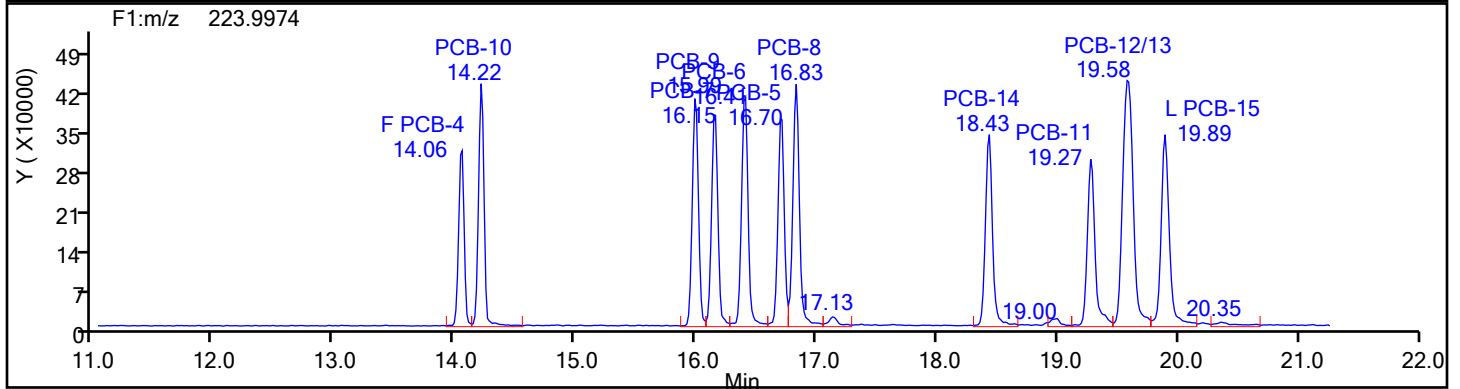
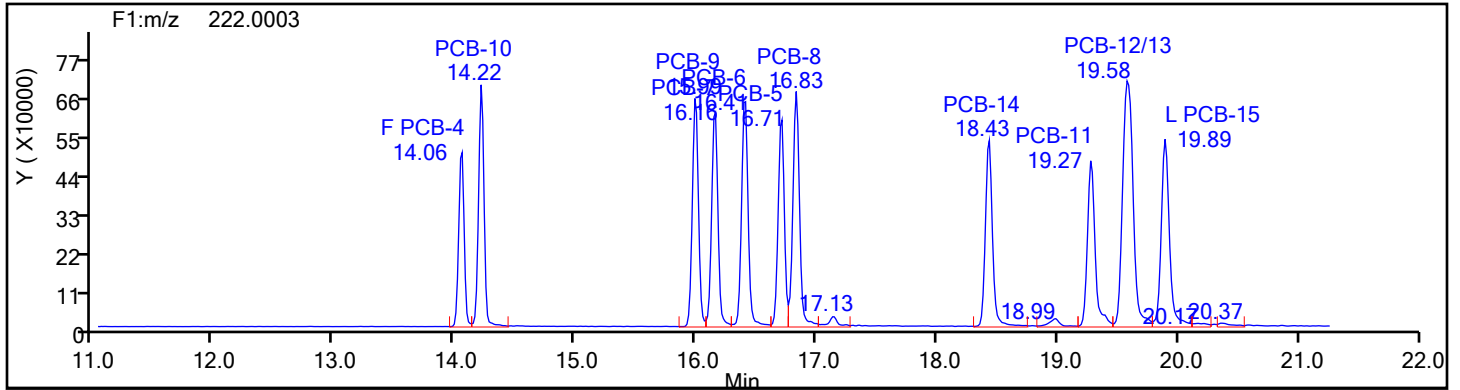
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Sample Line#: 1

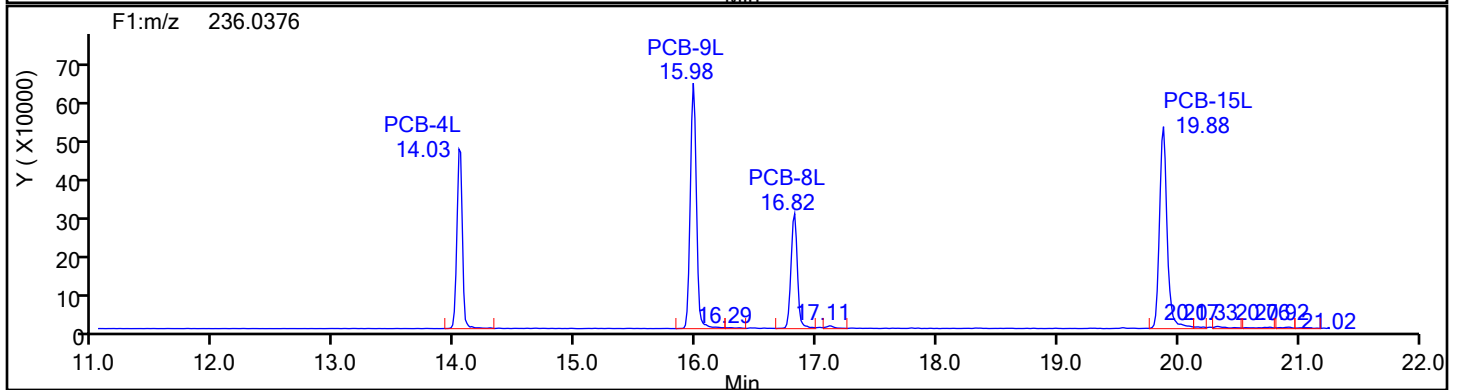
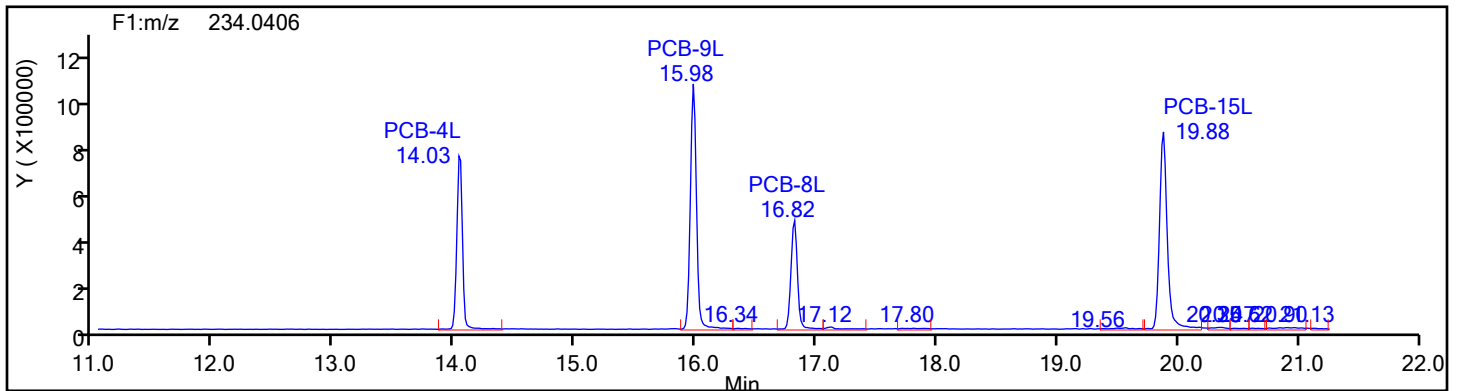
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

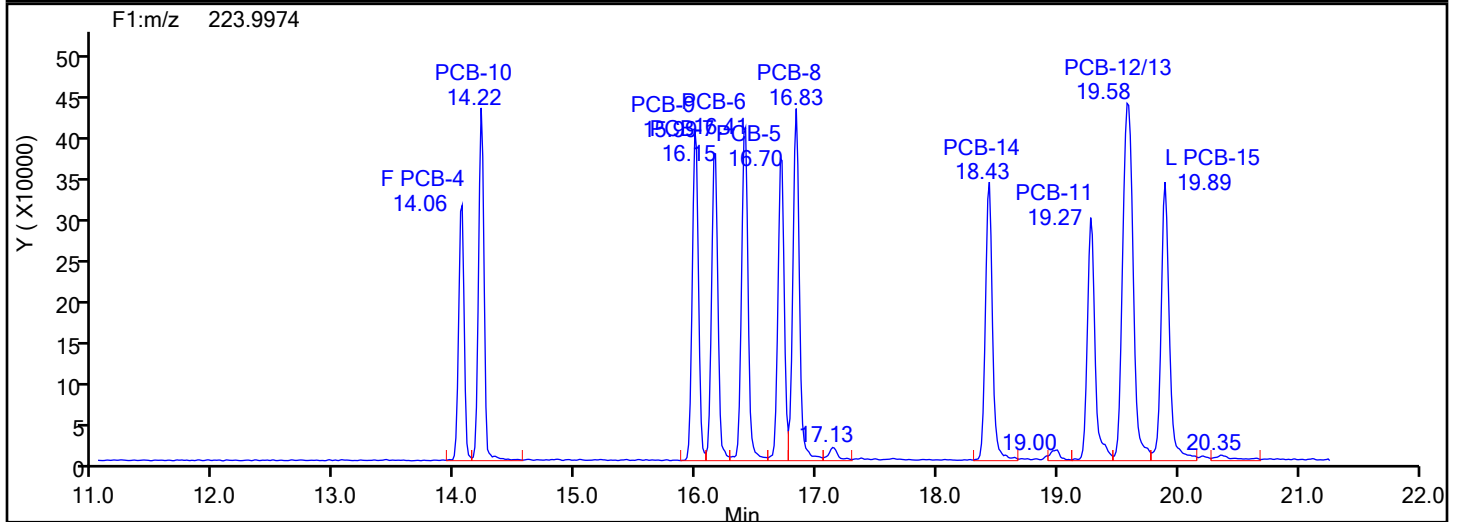
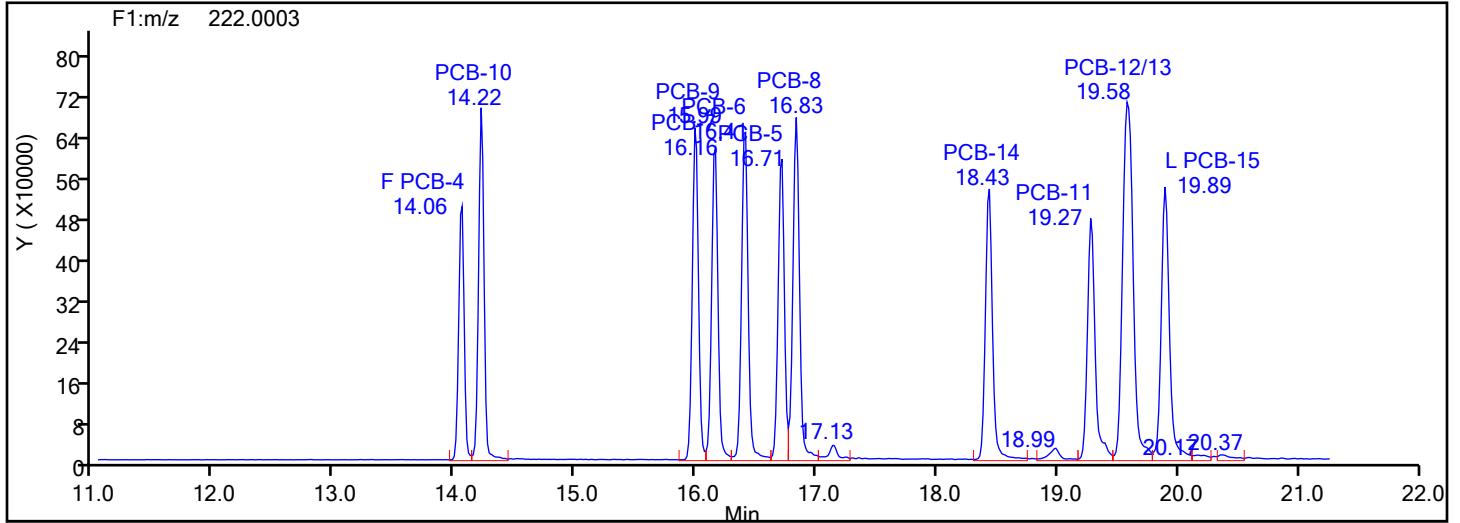
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Sample Line#: 1

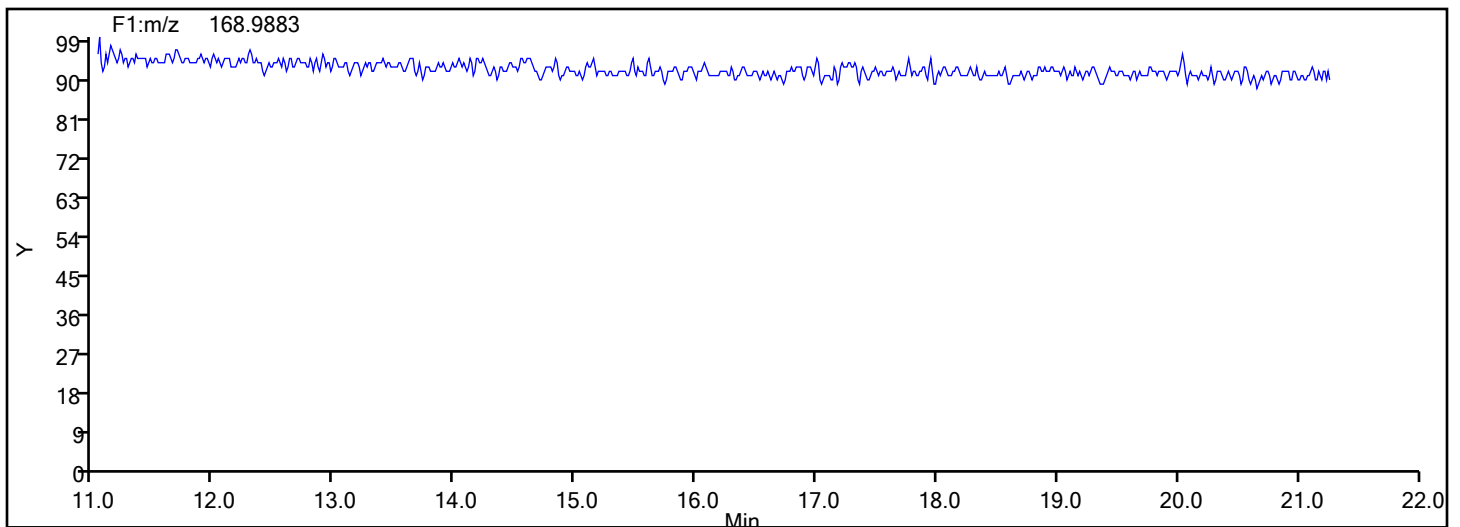
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

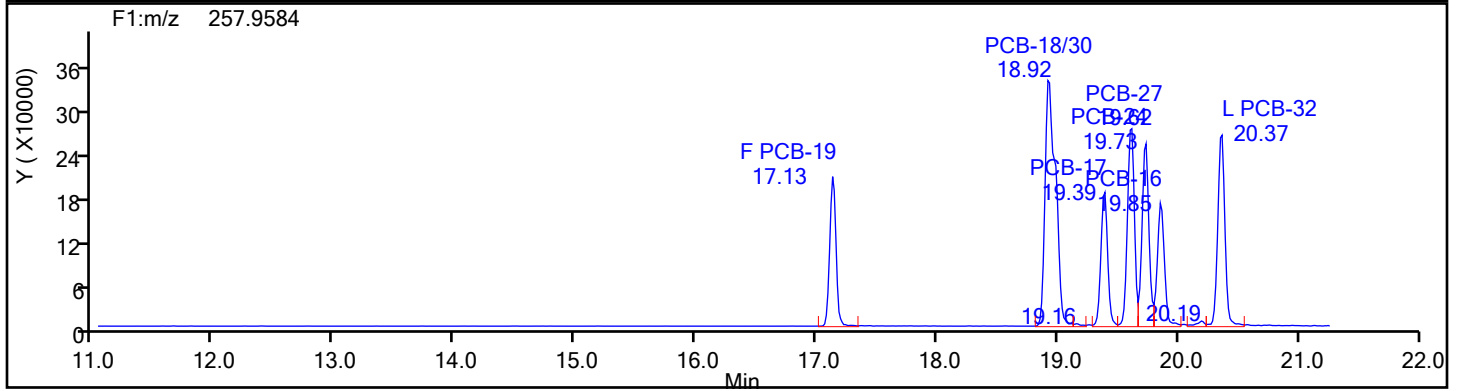
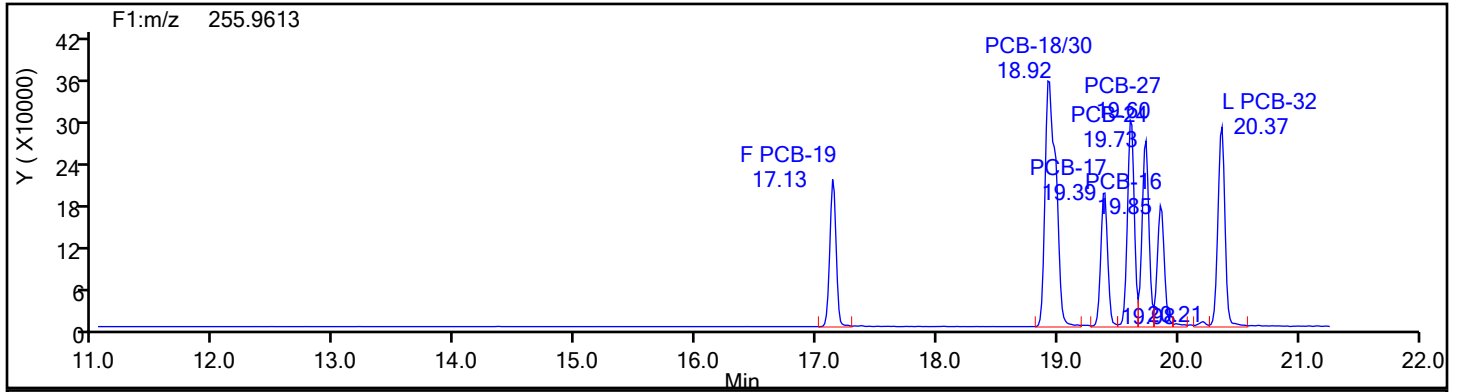


DiPCB F1 Lock Mass

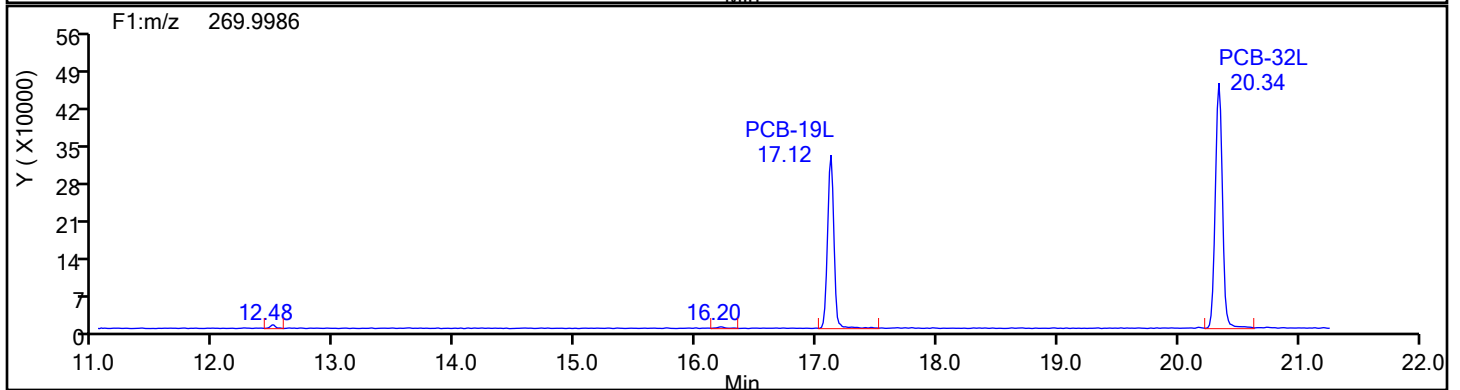
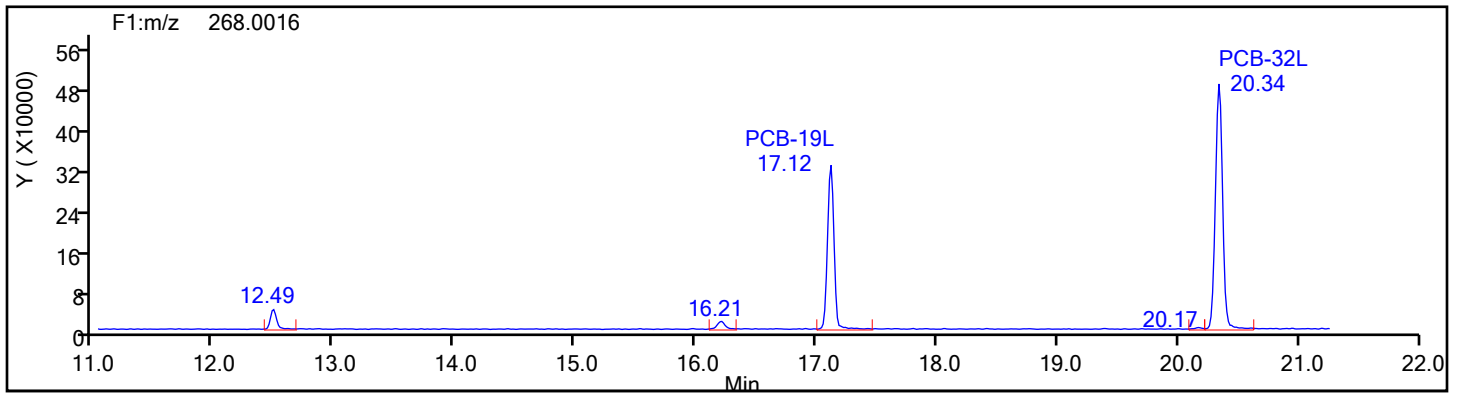


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

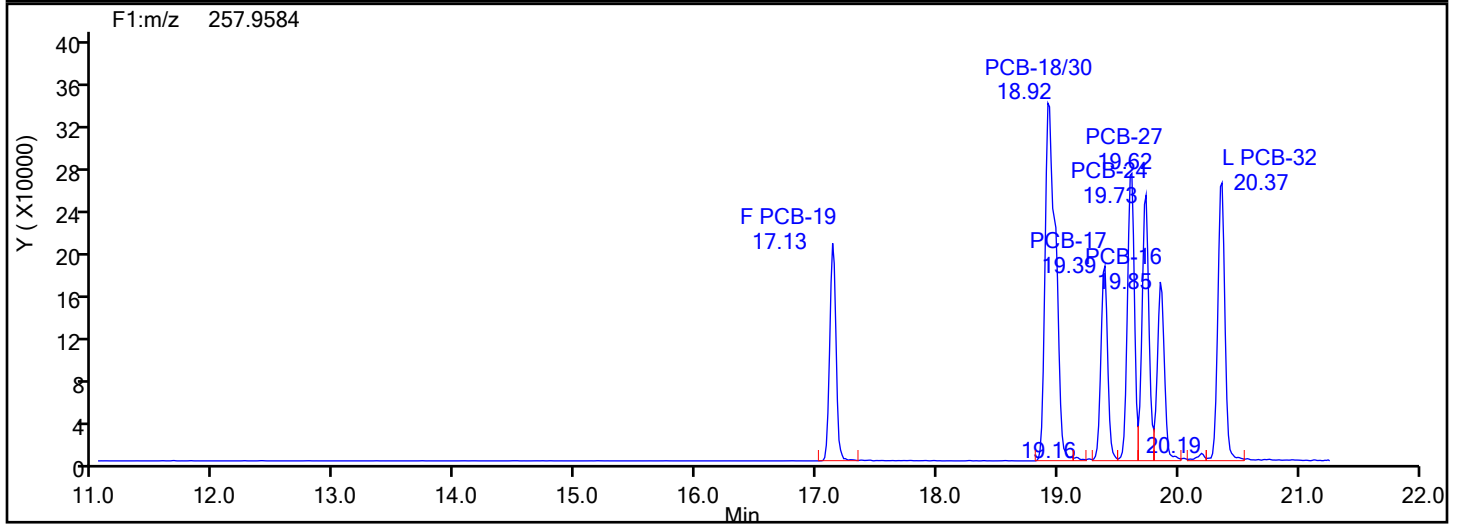
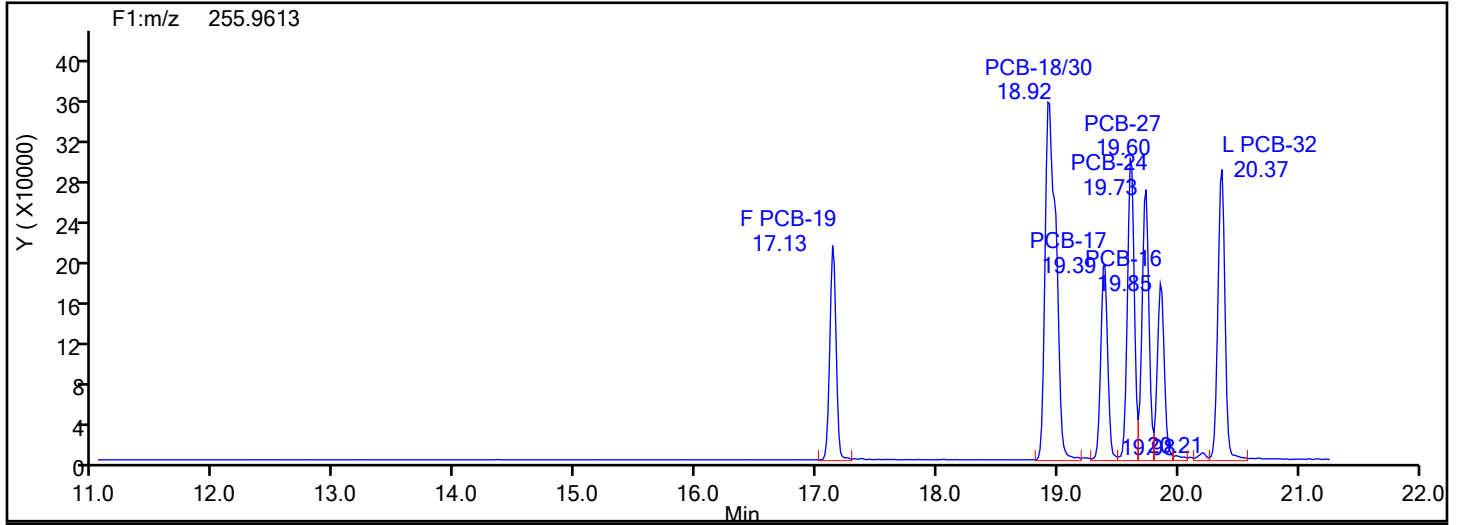
Worklist#: 88747

Sample Line#: 1

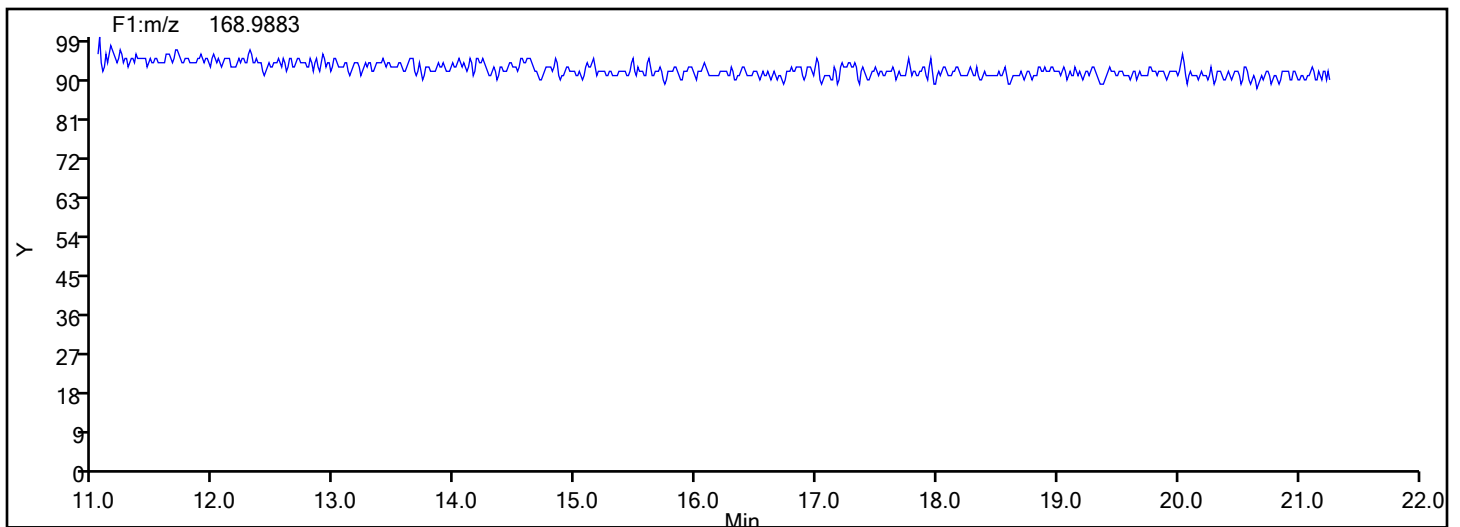
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

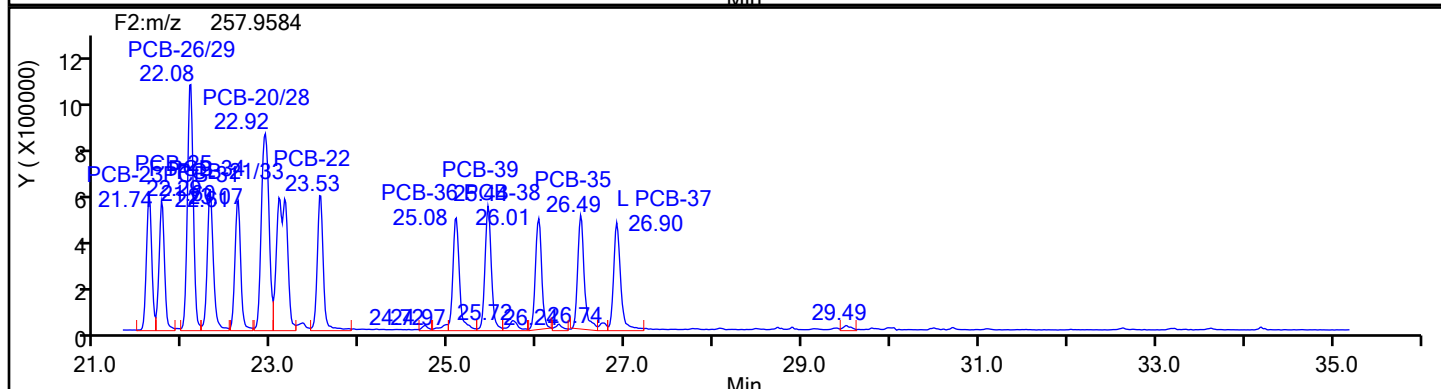


TriPCB F1 Lock Mass

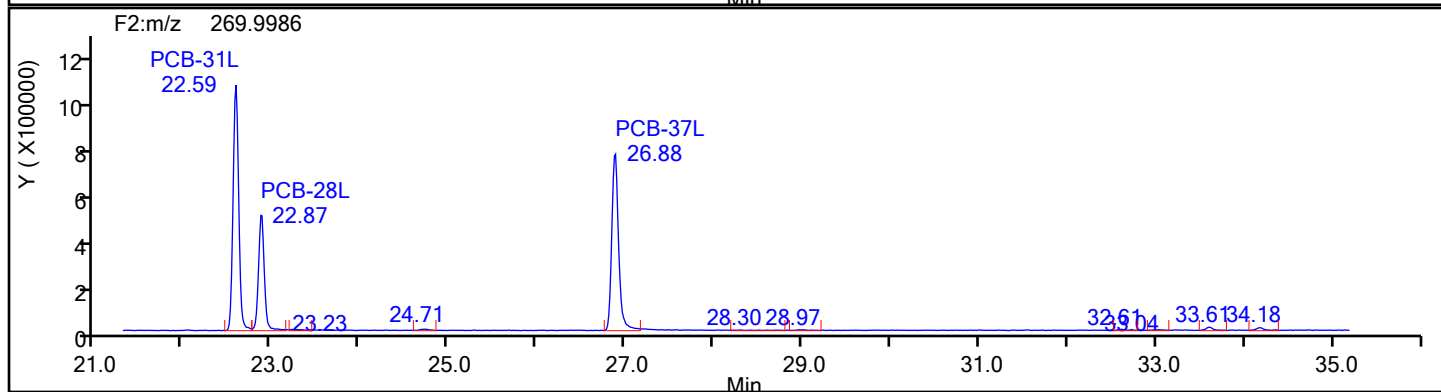
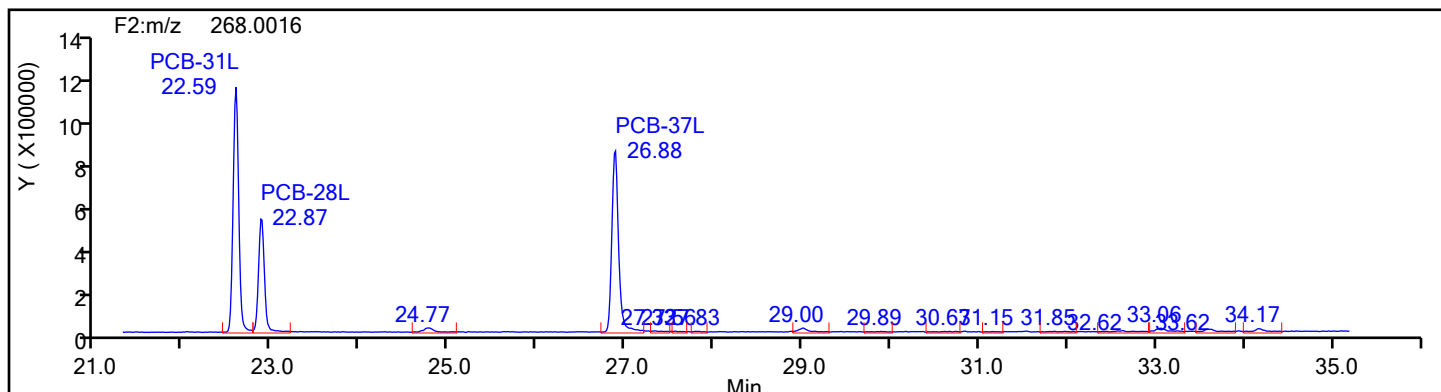


Column Dia: 0.25 mm

Column Dia: 0.25 mm



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

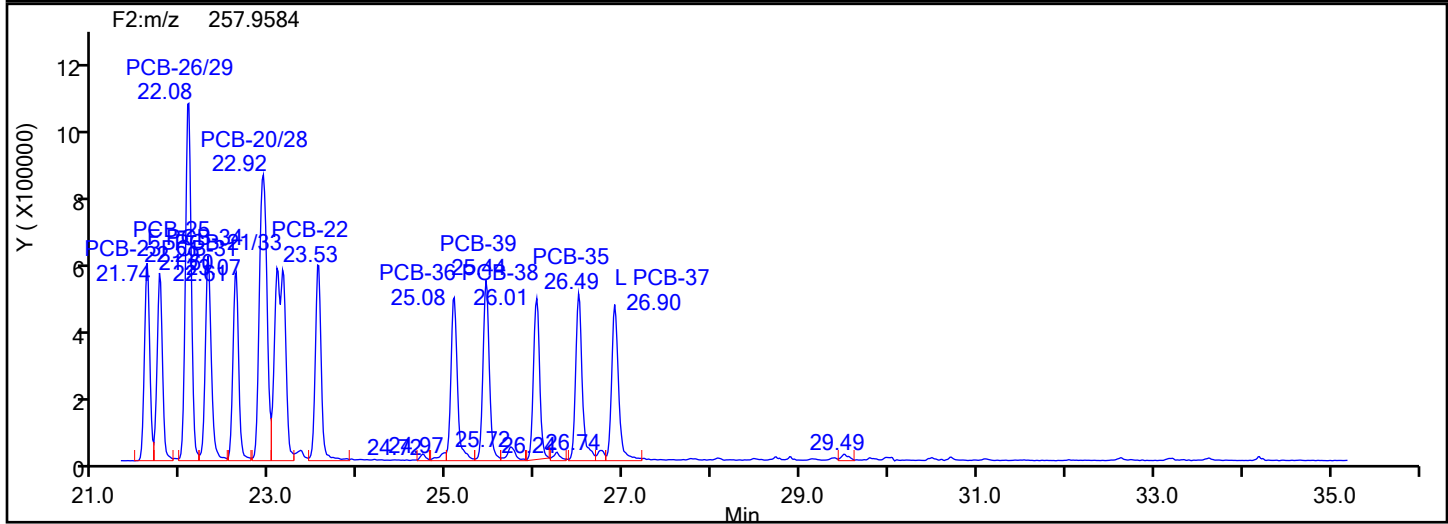
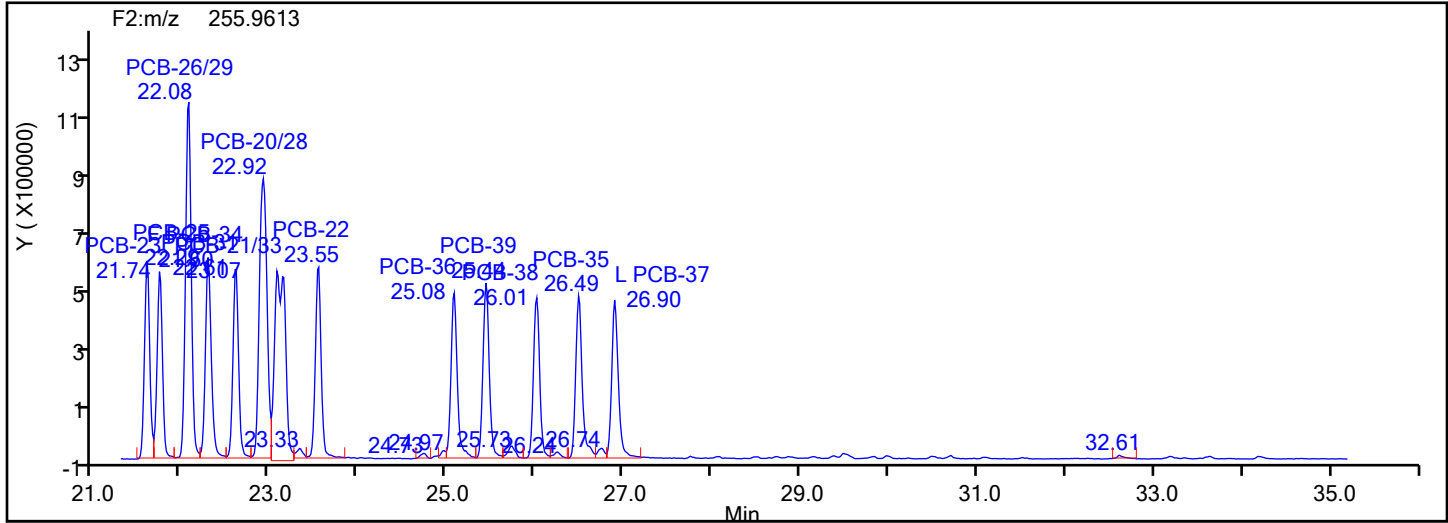
Worklist#: 88747

Sample Line#: 1

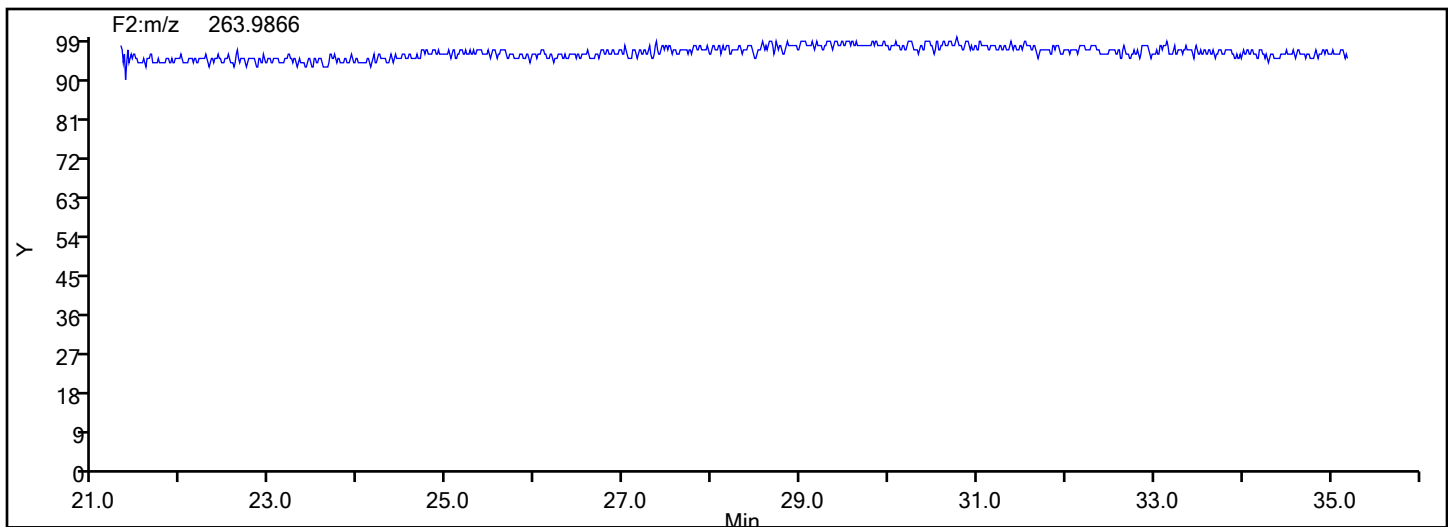
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

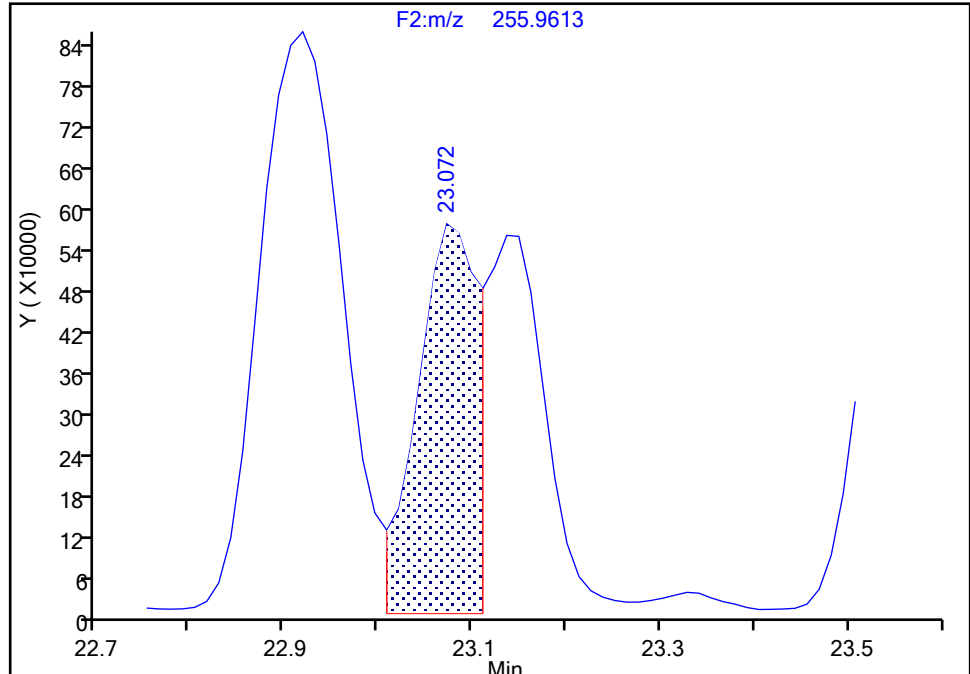
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

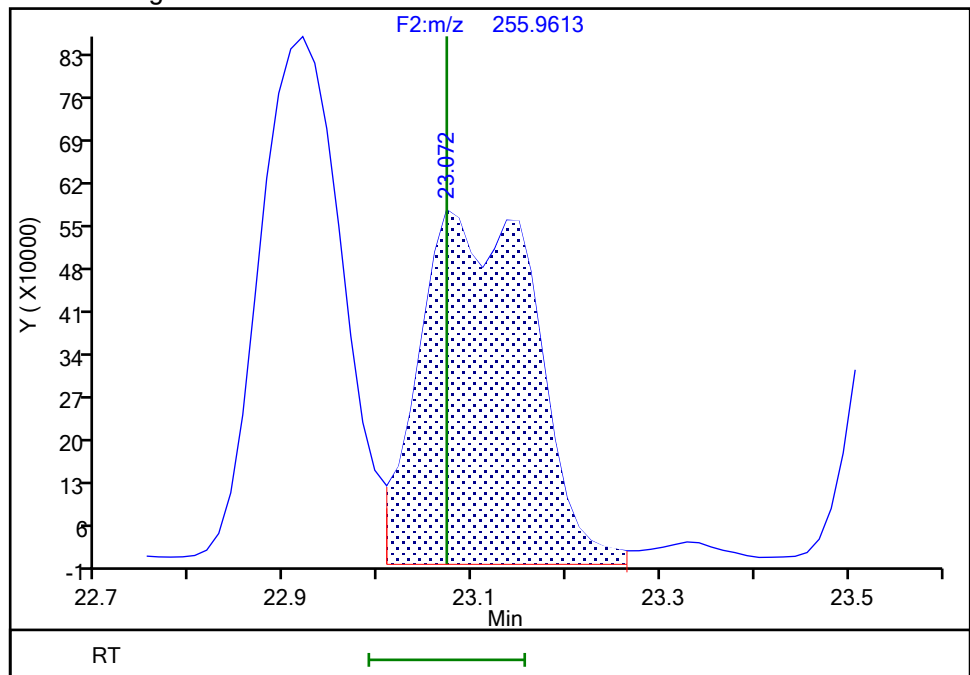
RT: 23.07
Area: 2463946
Amount: 52.159027
Amount Units: pg/ul

Processing Integration Results



RT: 23.07
Area: 4887833
Amount: 103.1544
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:50:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

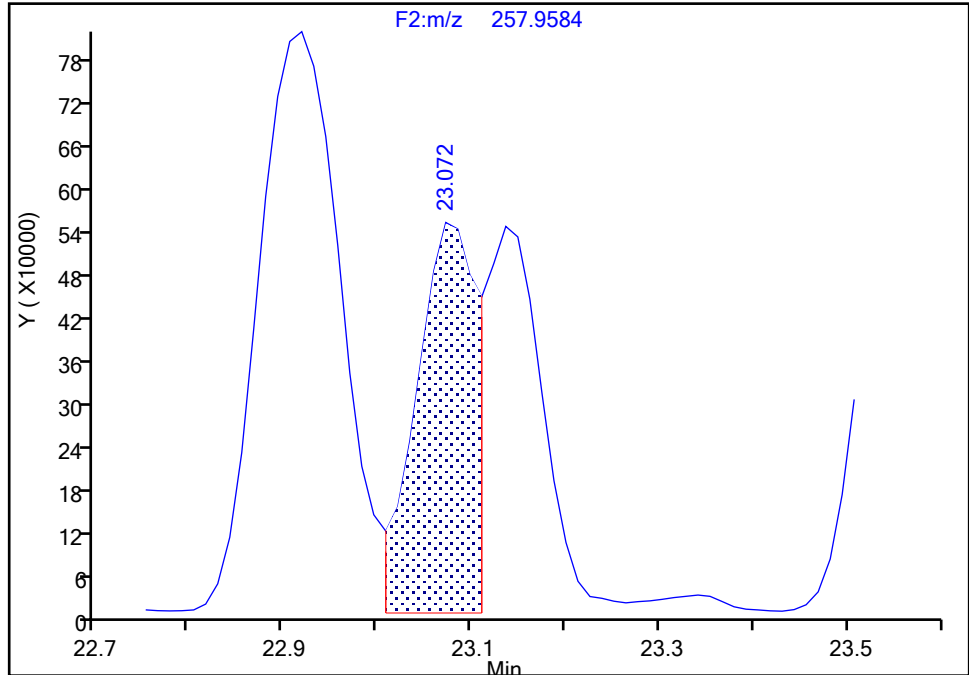
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

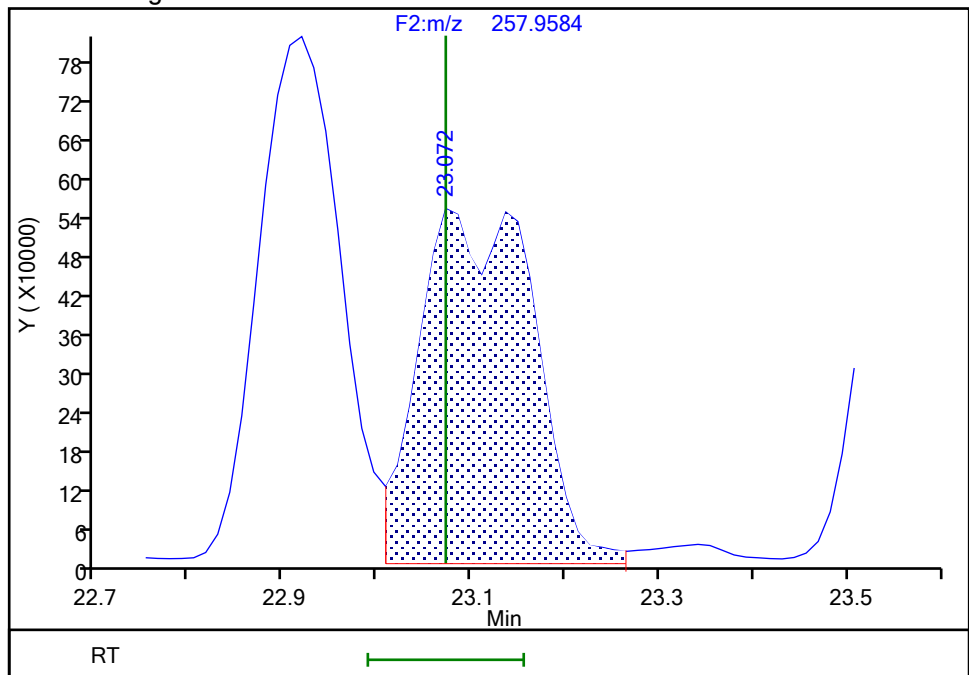
RT: 23.07
Area: 2345225
Amount: 52.159027
Amount Units: pg/ul

Processing Integration Results



RT: 23.07
Area: 4623221
Amount: 103.1544
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:50:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2687 of 3050

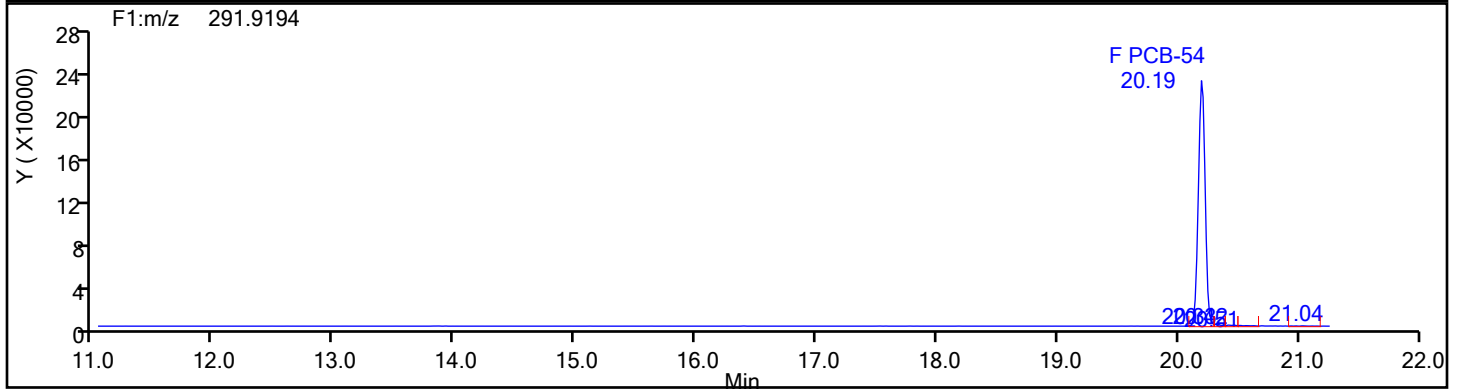
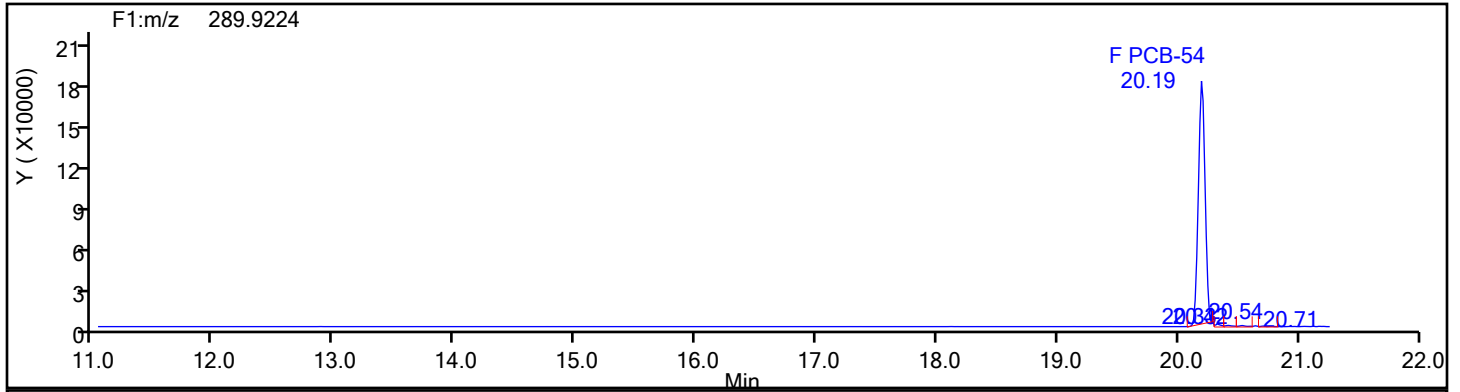
BASFWHC-McIntosh-010688

9/6/2024

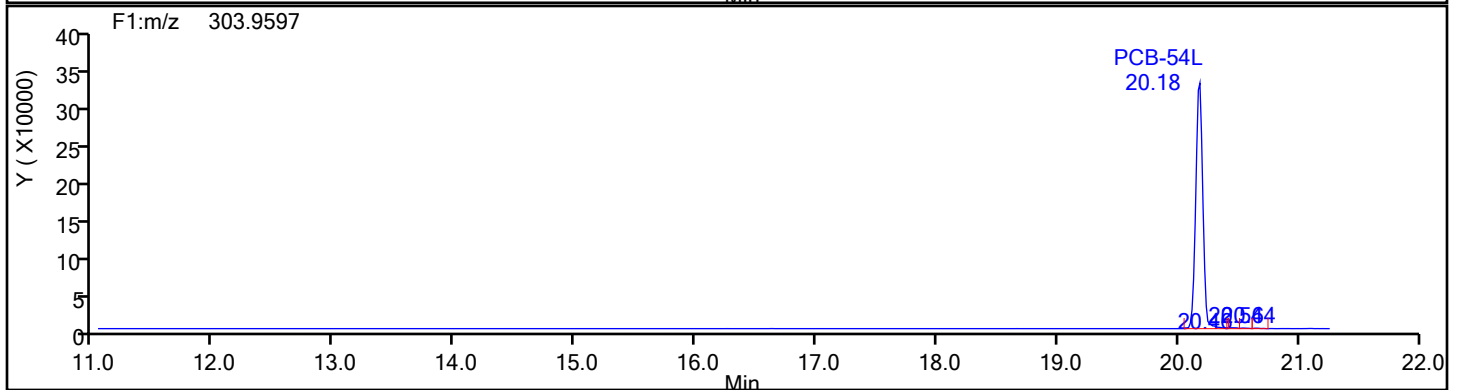
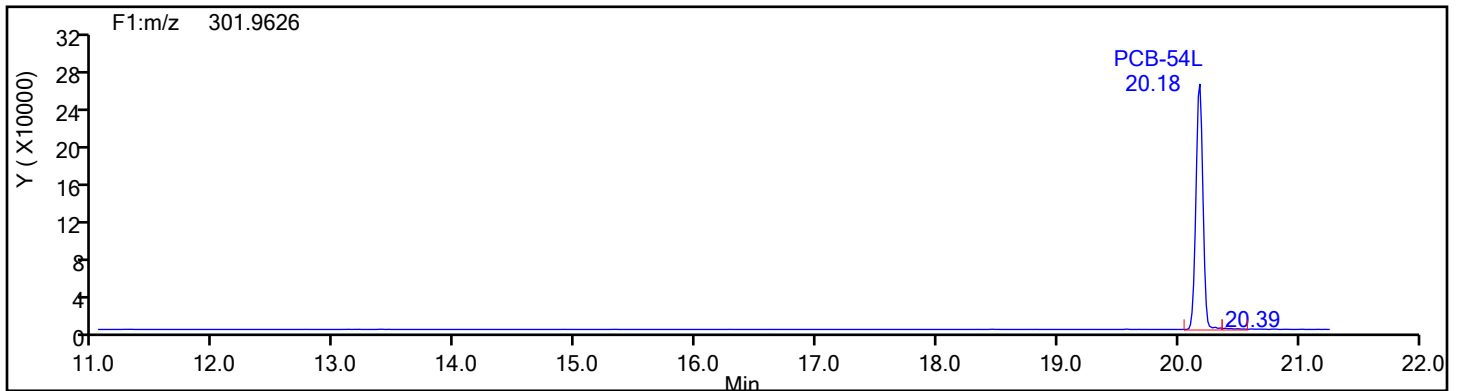
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Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

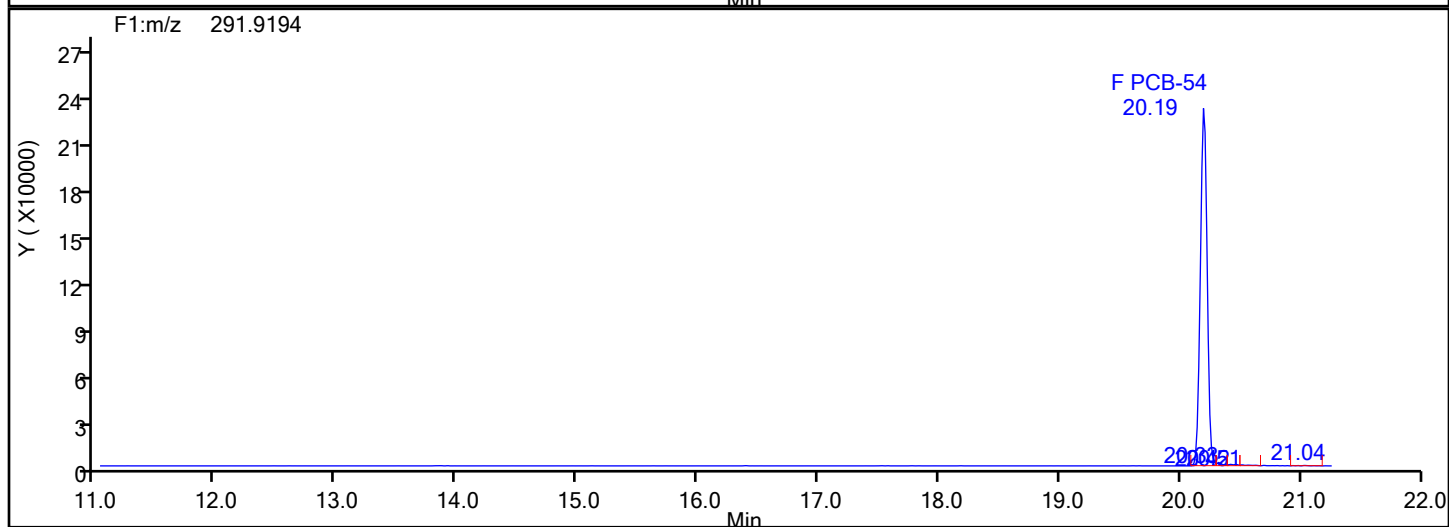
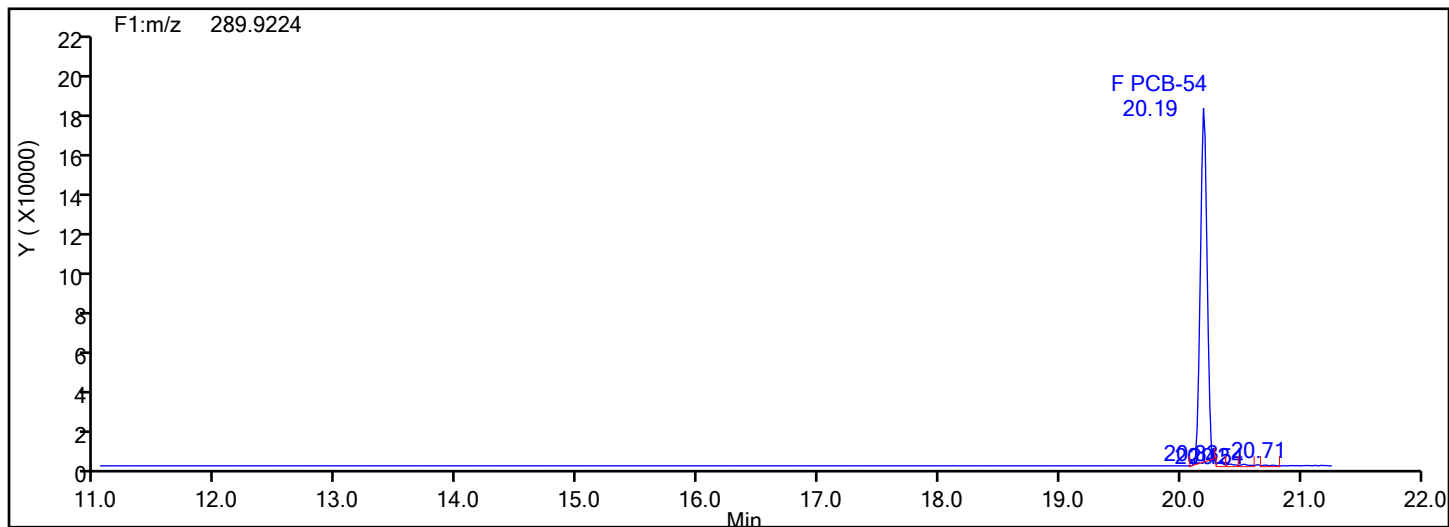
Worklist#: 88747

Sample Line#: 1

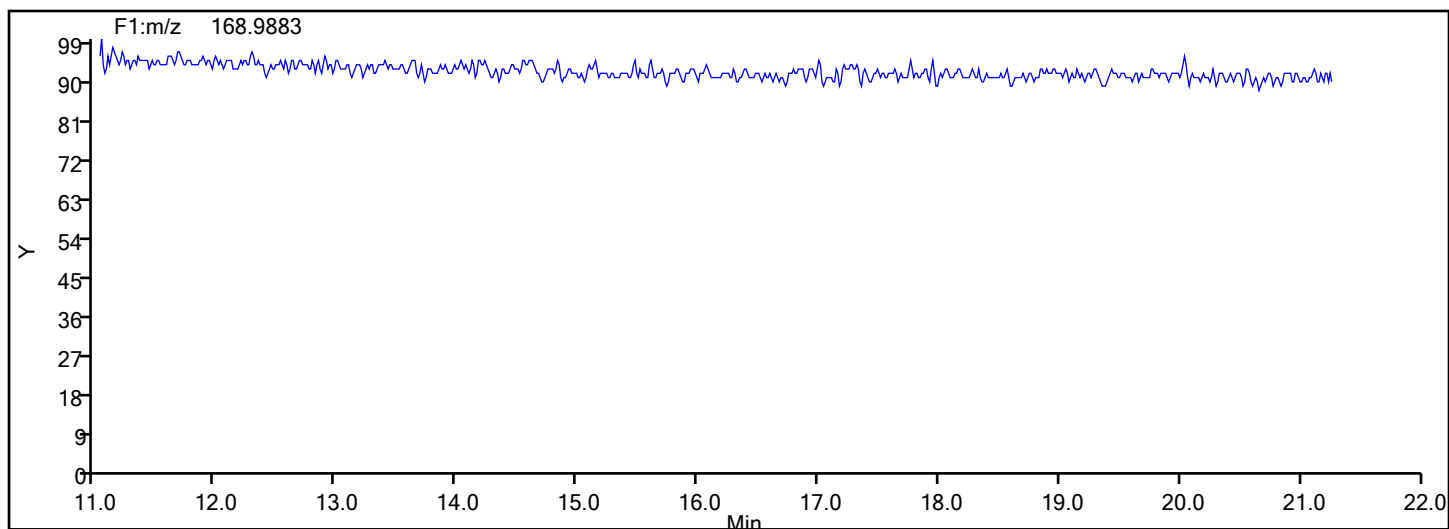
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

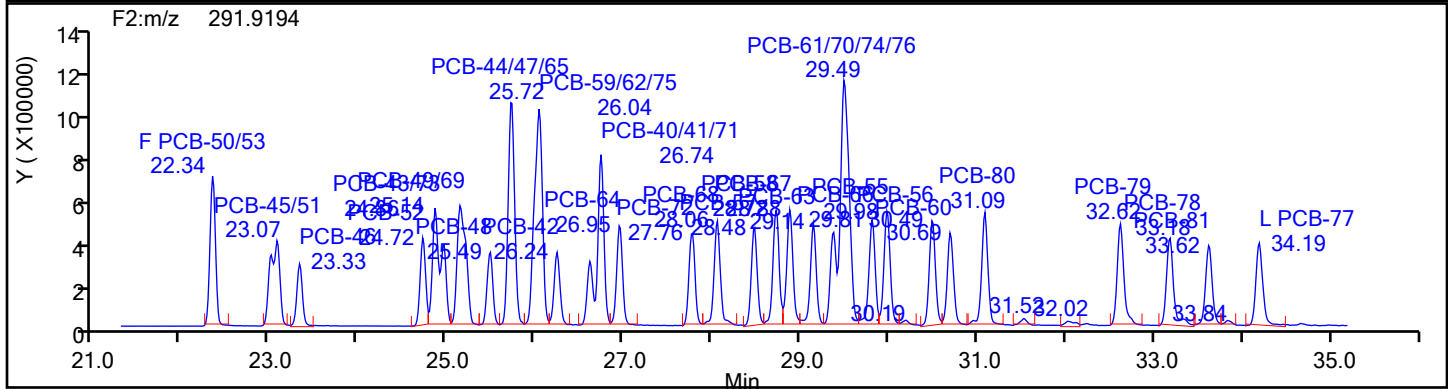
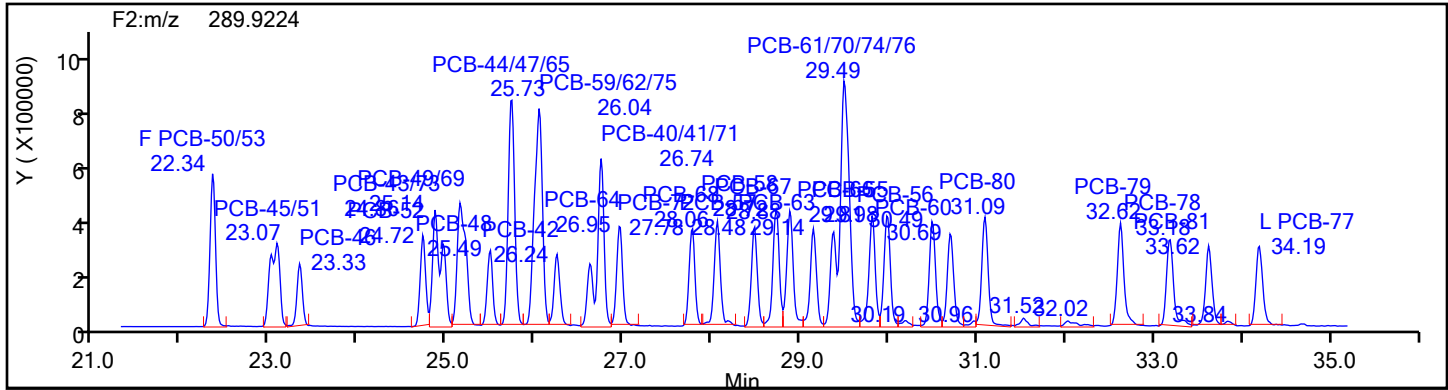
Worklist#: 88747

Sample Line#: 1

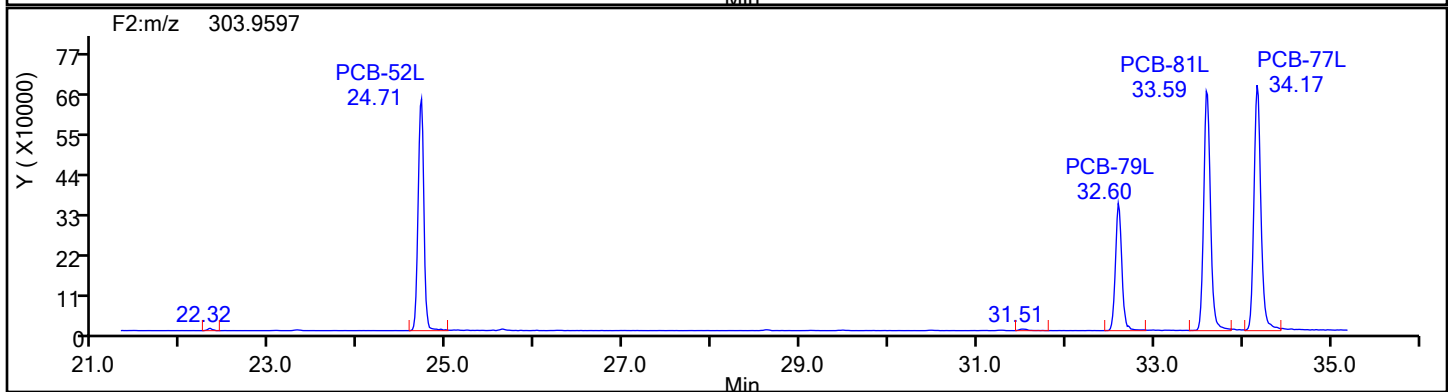
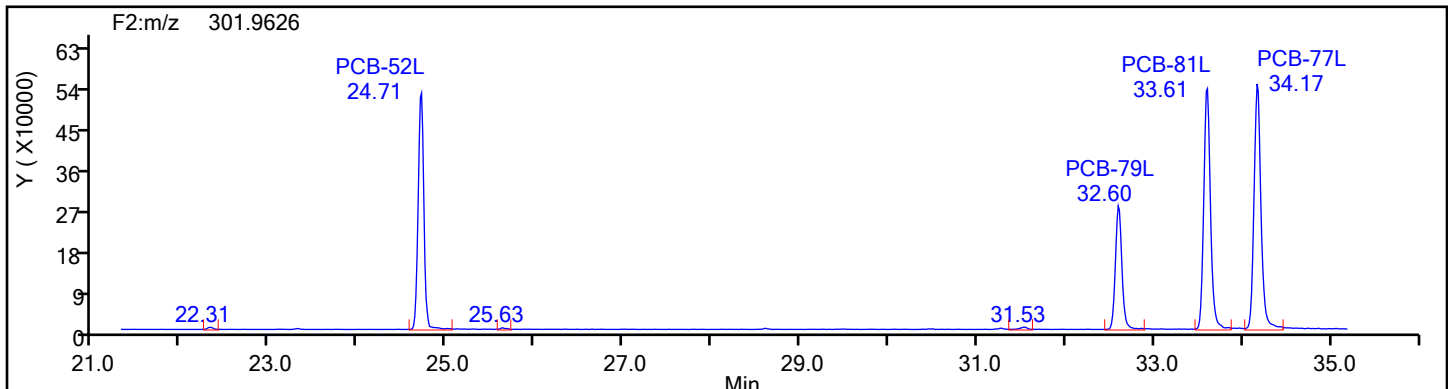
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

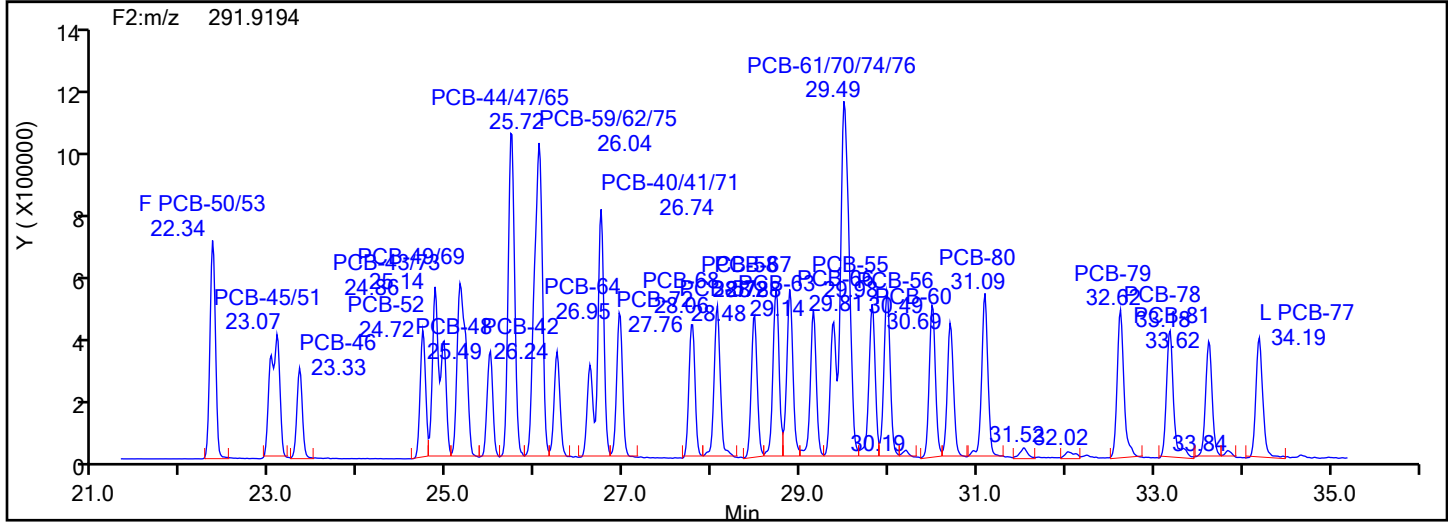
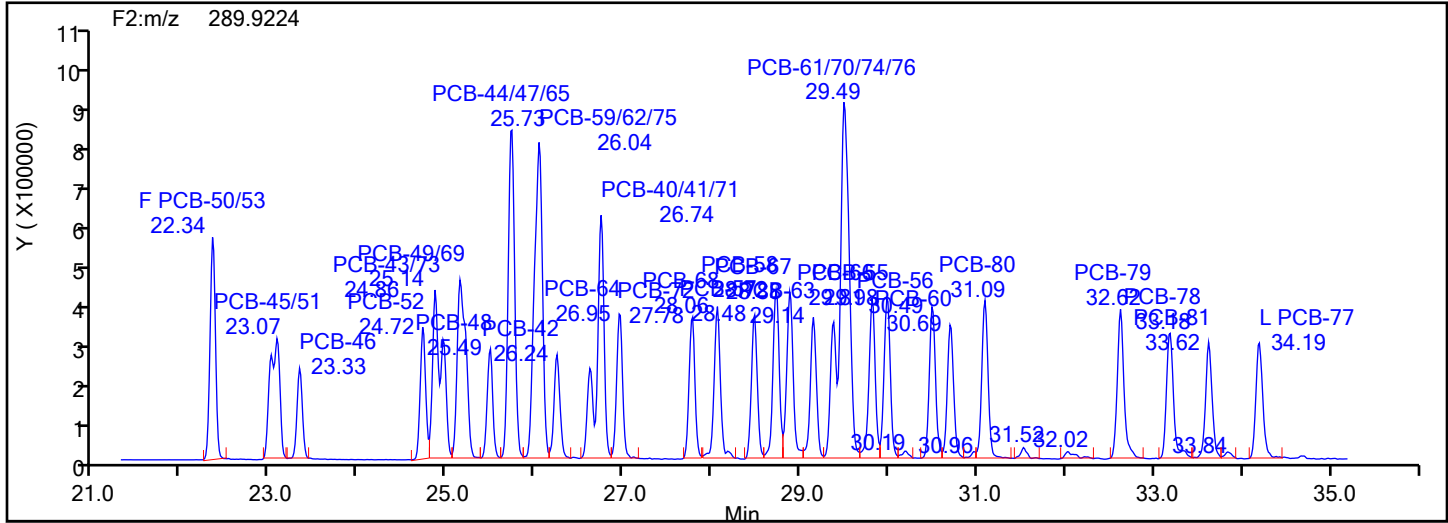
Worklist#: 88747

Sample Line#: 1

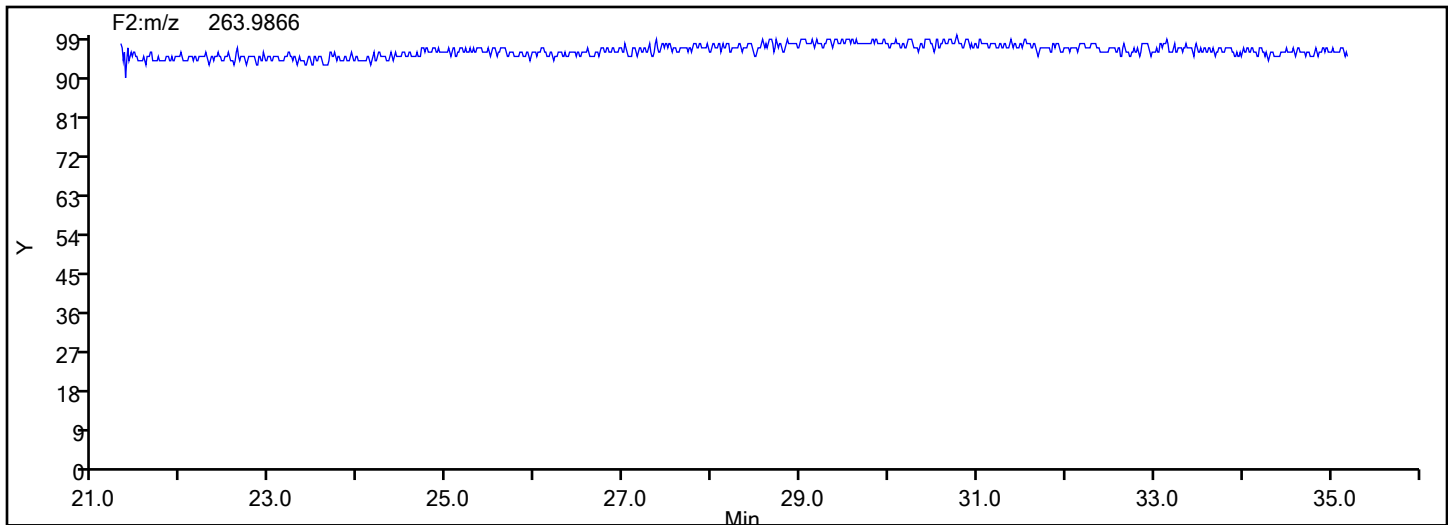
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

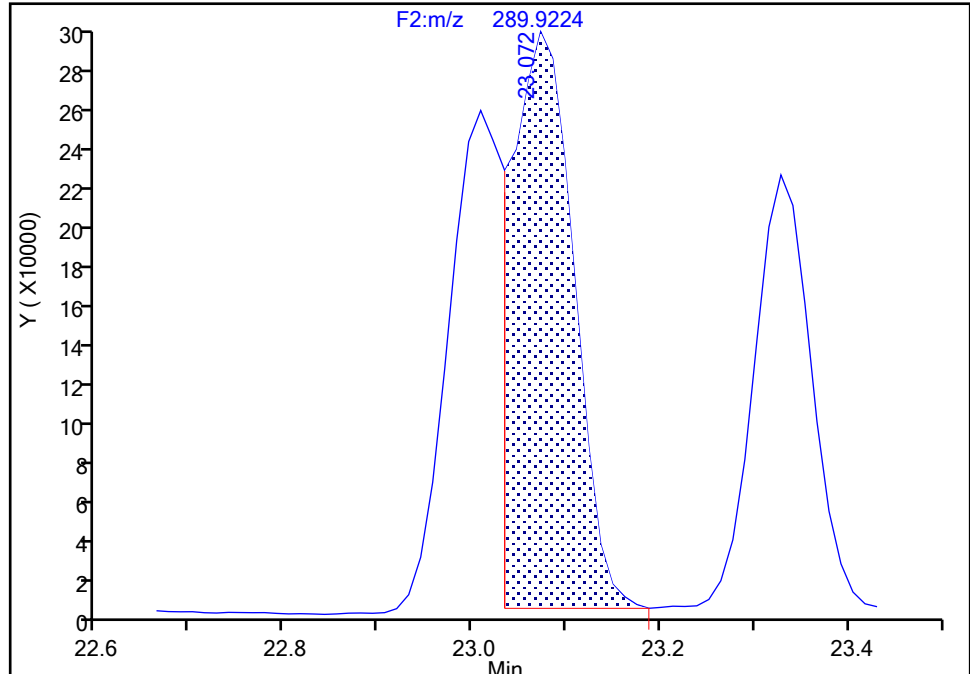
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

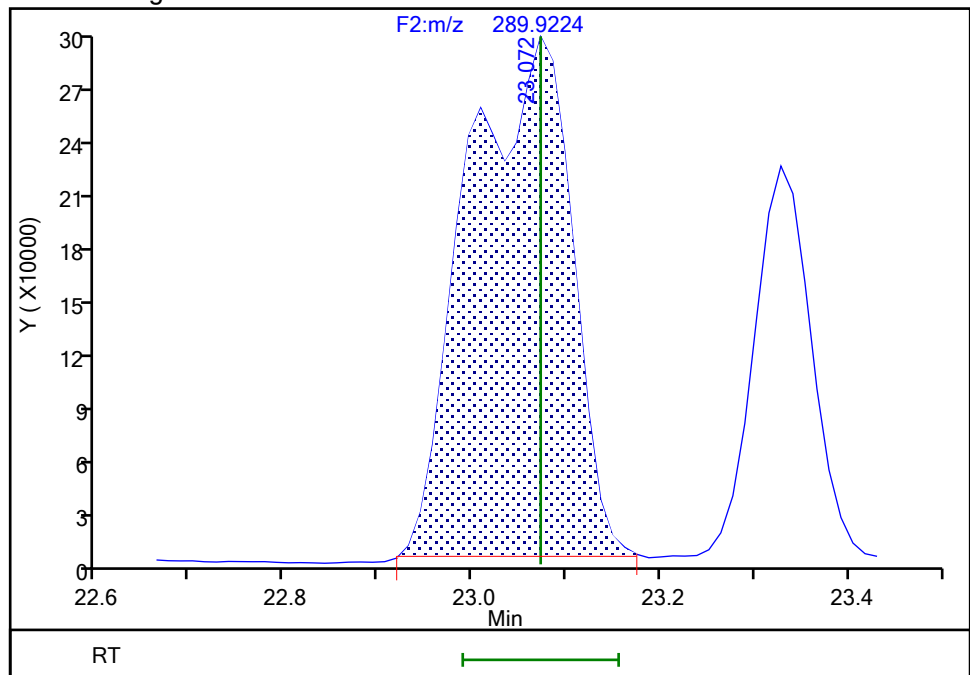
RT: 23.07
Area: 1304043
Amount: 54.049475
Amount Units: pg/ul

Processing Integration Results



RT: 23.07
Area: 2257964
Amount: 93.245440
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:50:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

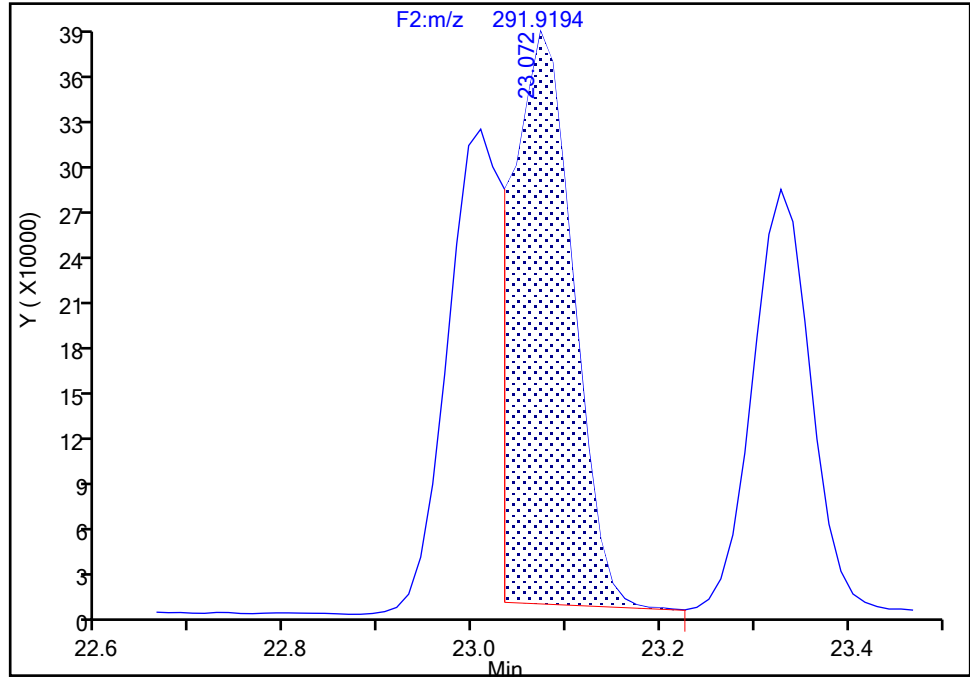
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

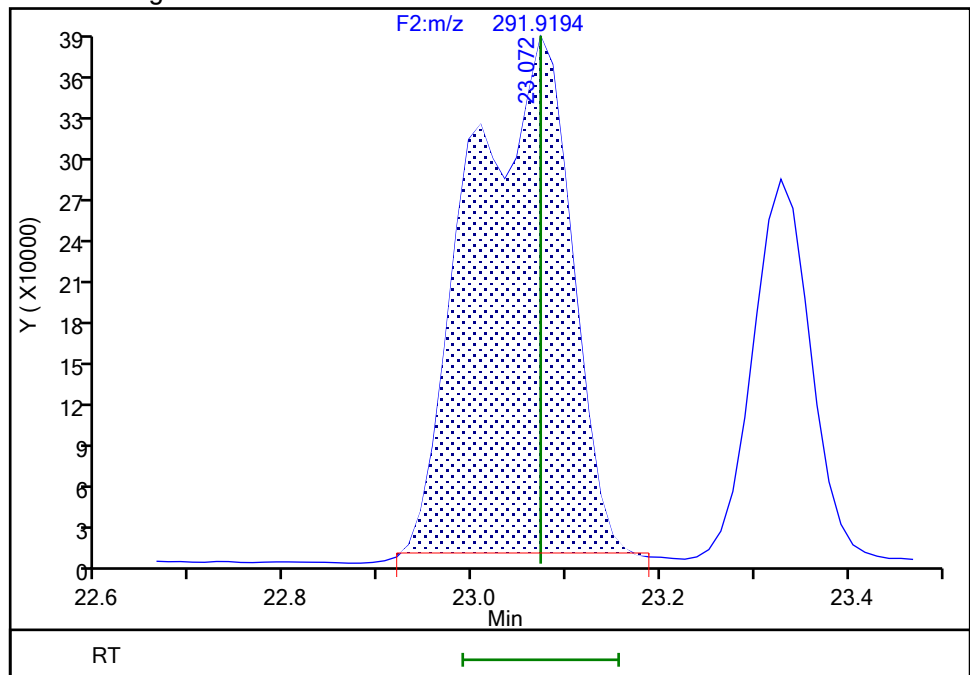
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Amount: 54.049475
Amount Units: pg/ul

Processing Integration Results



RT: 23.07
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Amount: 93.245440
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:50:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2693 of 3050

BASFWHC-McIntosh-010694

9/6/2024

4:11:20 PM

Eurofins Knoxville

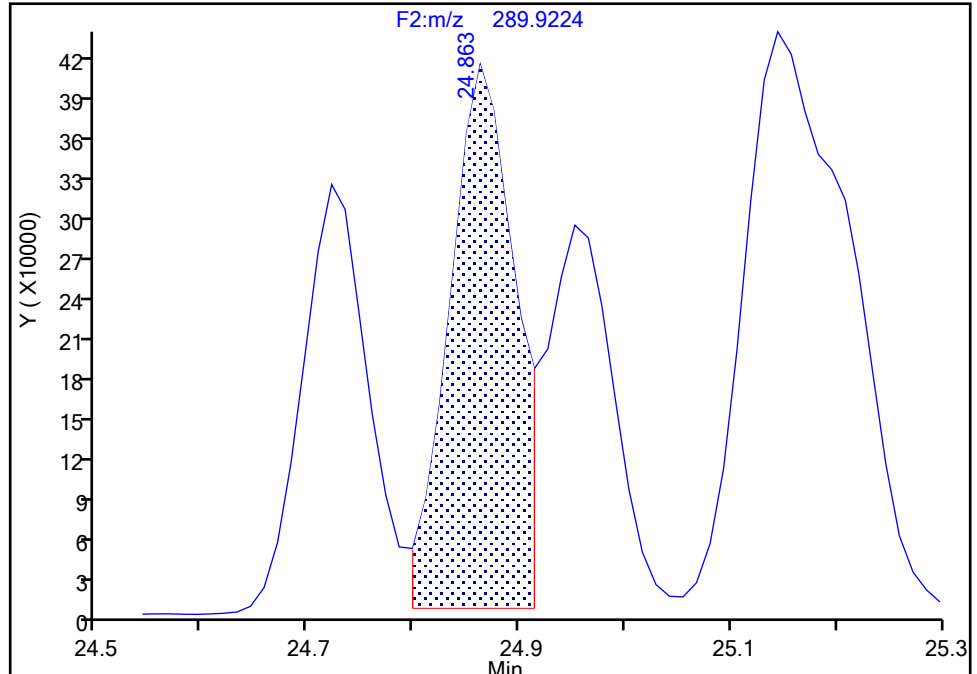
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

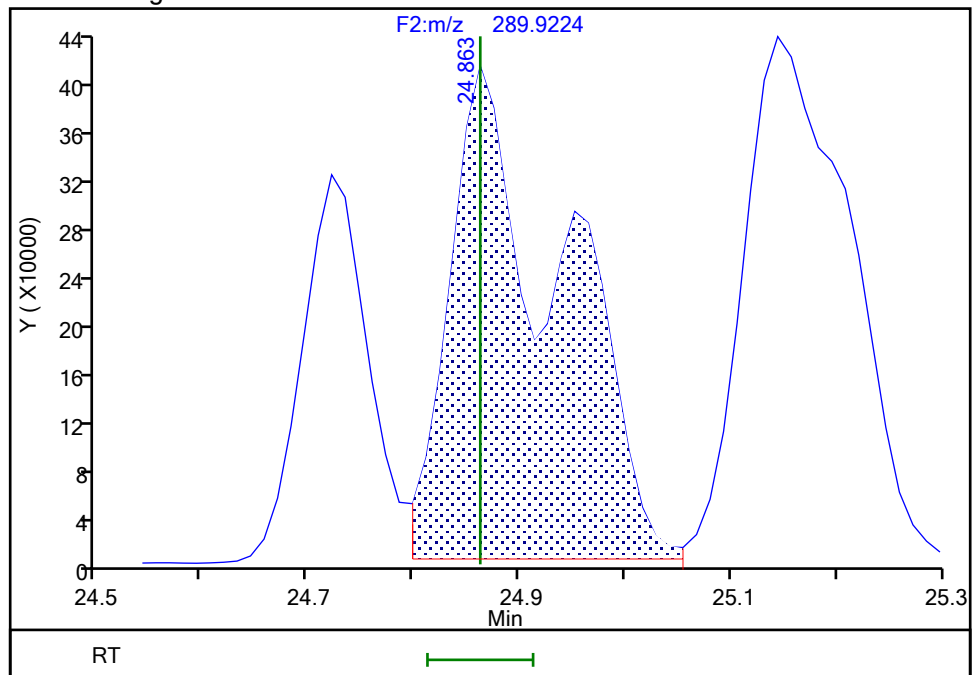
RT: 24.86
Area: 1746342
Amount: 59.214098
Amount Units: pg/ul

Processing Integration Results



RT: 24.86
Area: 3028560
Amount: 101.4824
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:51:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

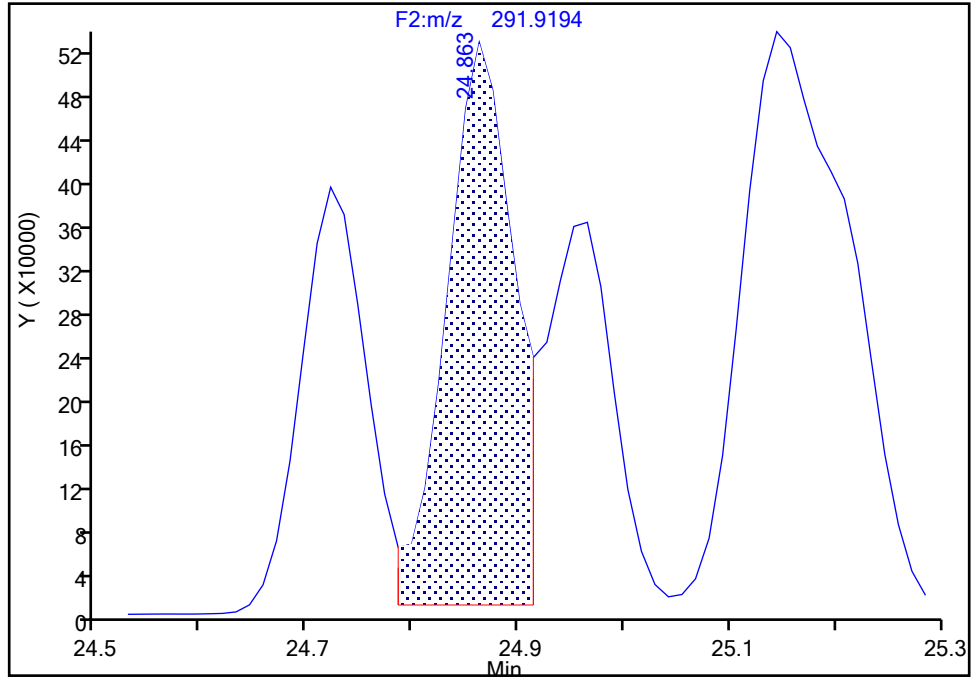
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

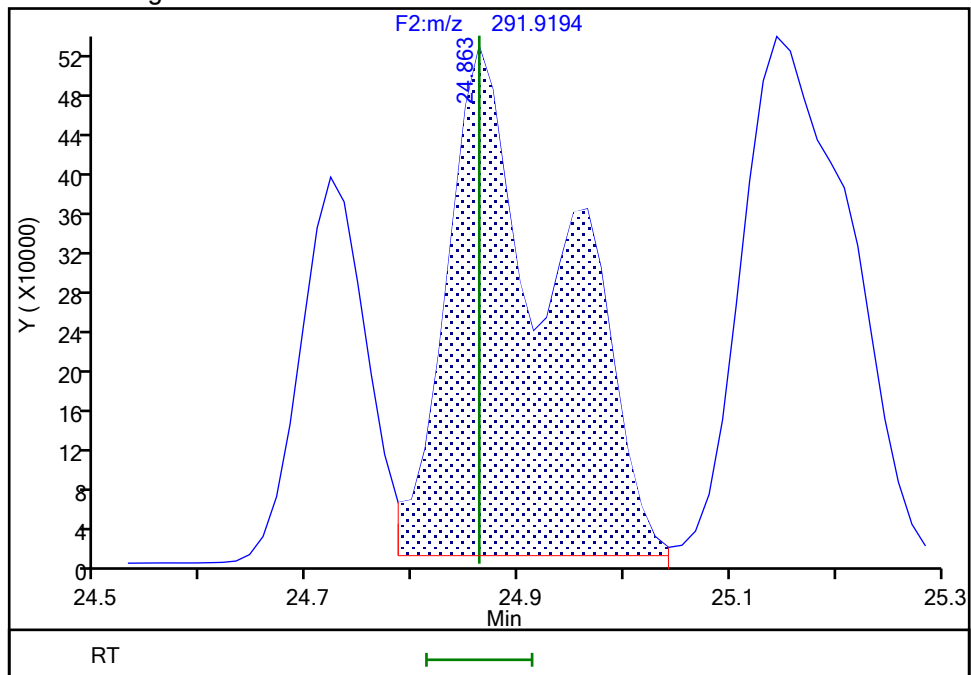
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Area: 2262821
Amount: 59.214098
Amount Units: pg/ul

Processing Integration Results



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Amount: 101.4824
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:51:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2695 of 3050

BASFWC-McIntosh-010696

9/6/2024

4:11:20 PM

Eurofins Knoxville

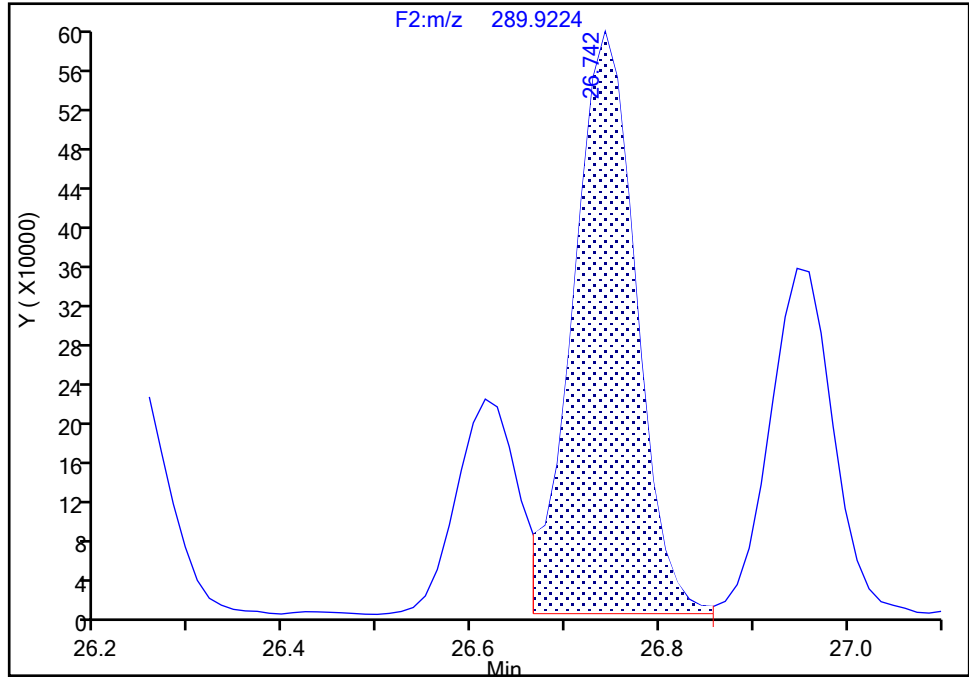
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

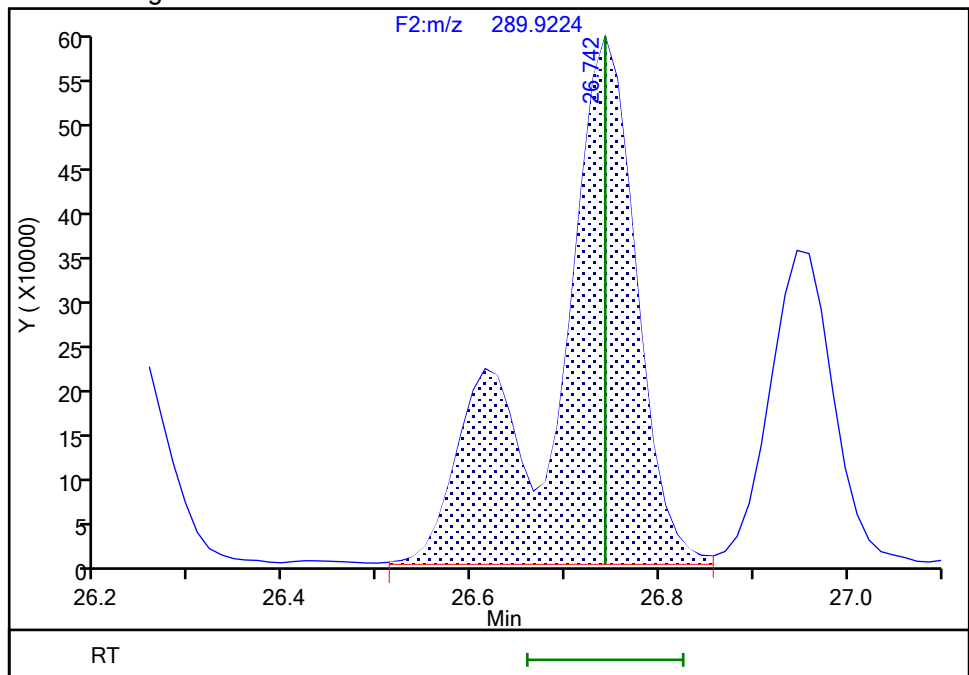
RT: 26.74
Area: 2768666
Amount: 107.1774
Amount Units: pg/ul

Processing Integration Results



RT: 26.74
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Amount: 145.3265
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:51:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

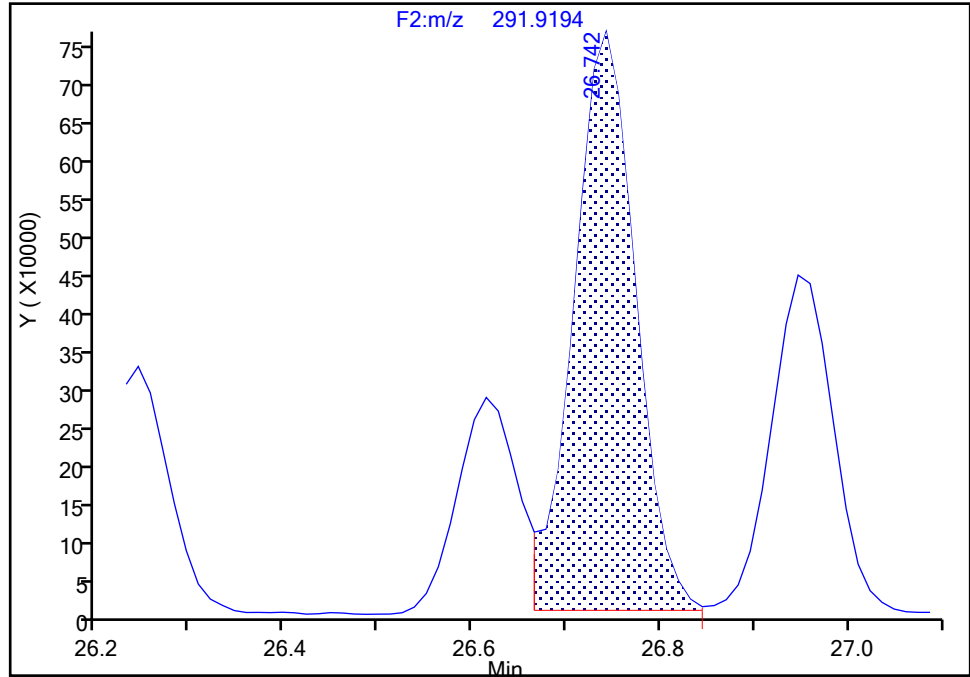
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

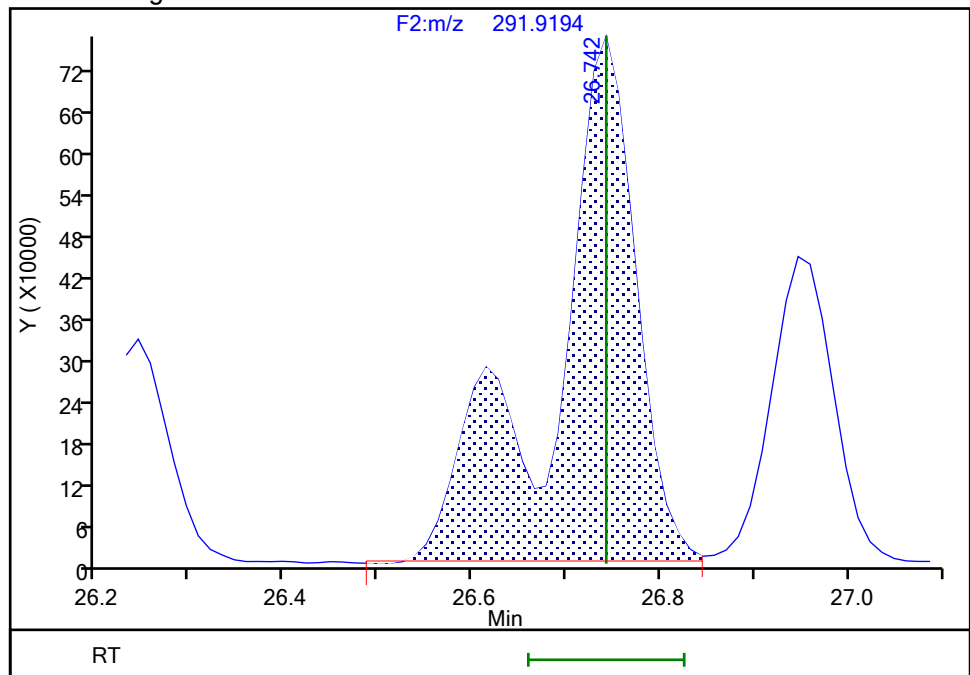
RT: 26.74
Area: 3455557
Amount: 107.1774
Amount Units: pg/ul

Processing Integration Results



RT: 26.74
Area: 4694983
Amount: 145.3265
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:51:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2697 of 3050

BASFWHC-McIntosh-010698

9/6/2024

4:11:20 PM

Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

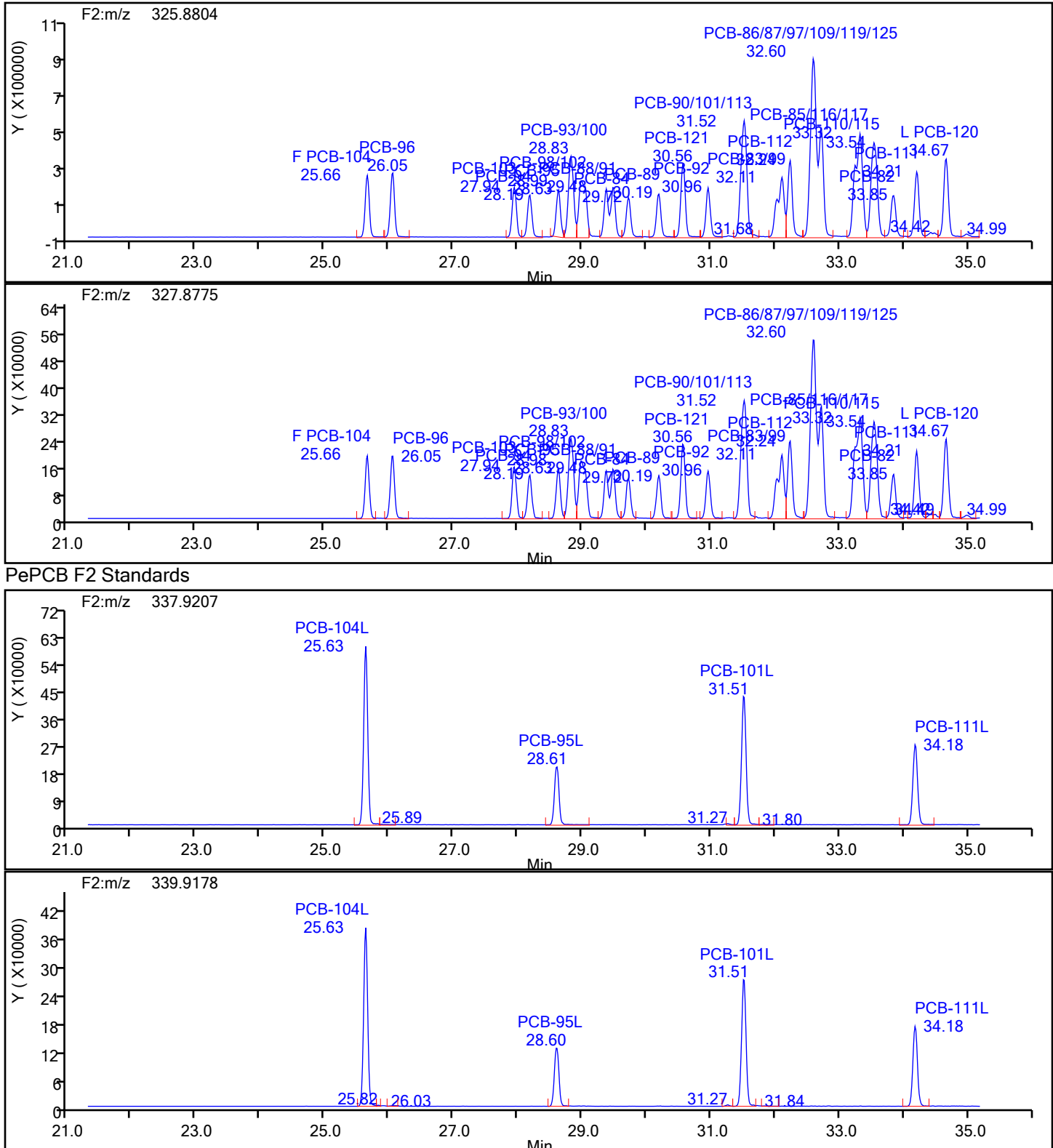
Worklist#: 88747

Sample Line#: 1

Column Type: SPB-Octyl

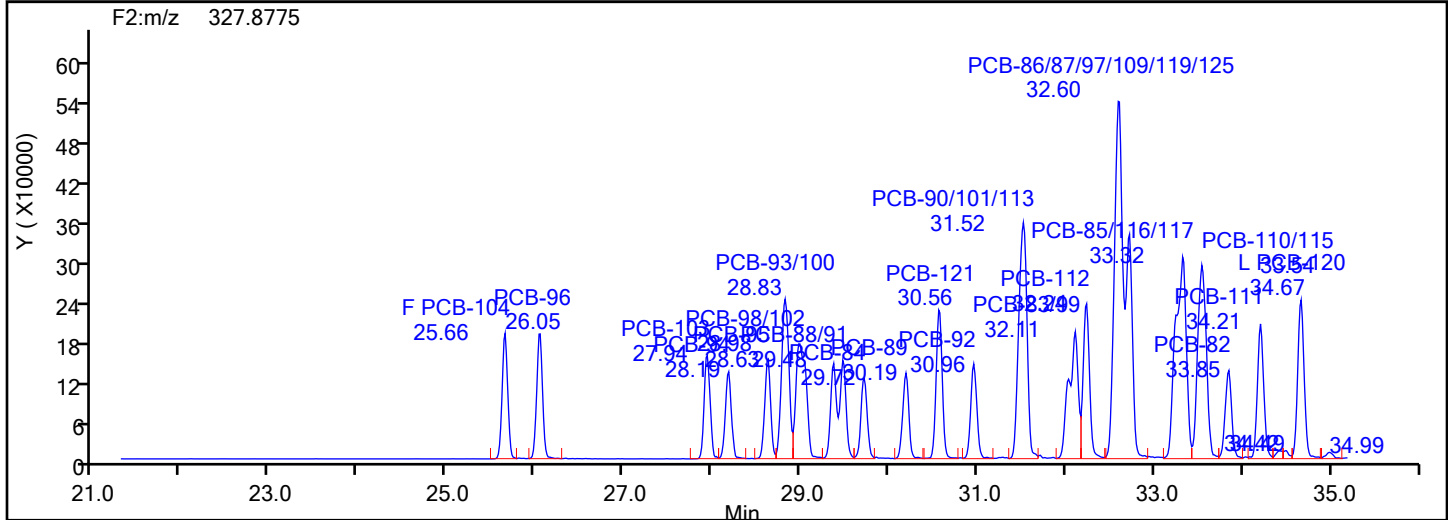
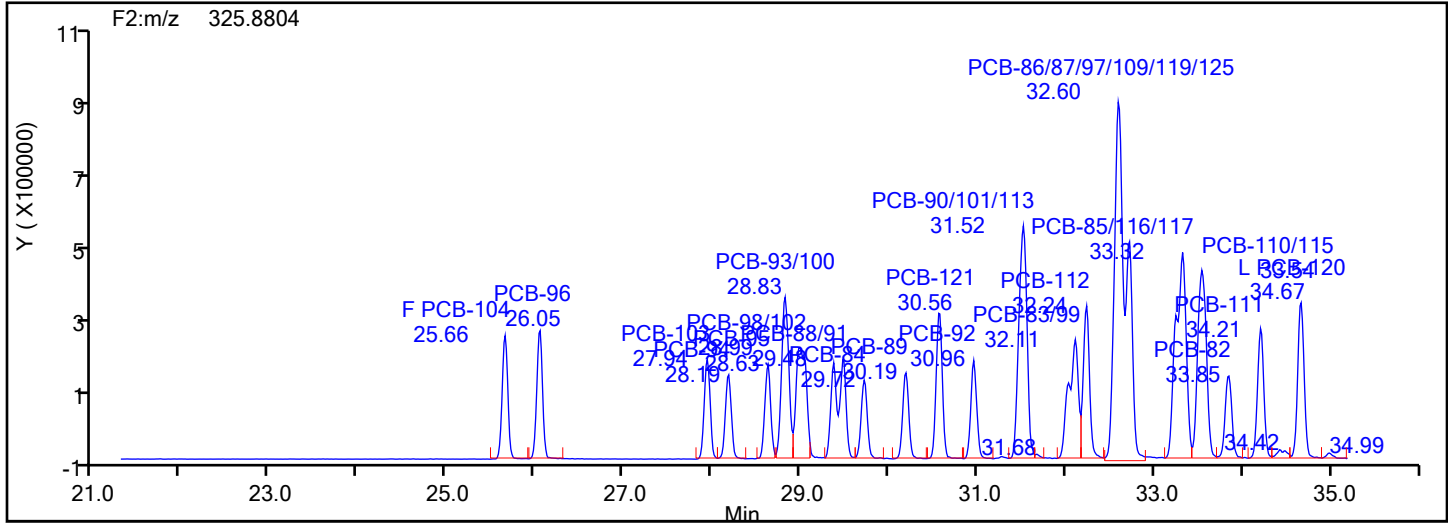
Column Dia: 0.25 mm

PePCB F2

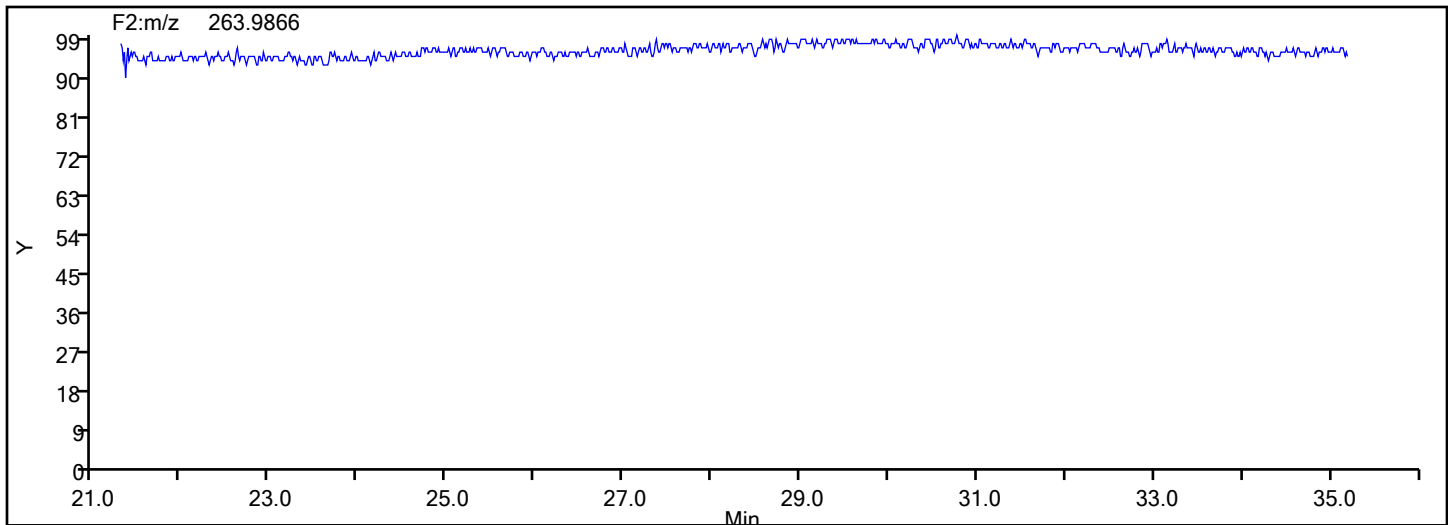


Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

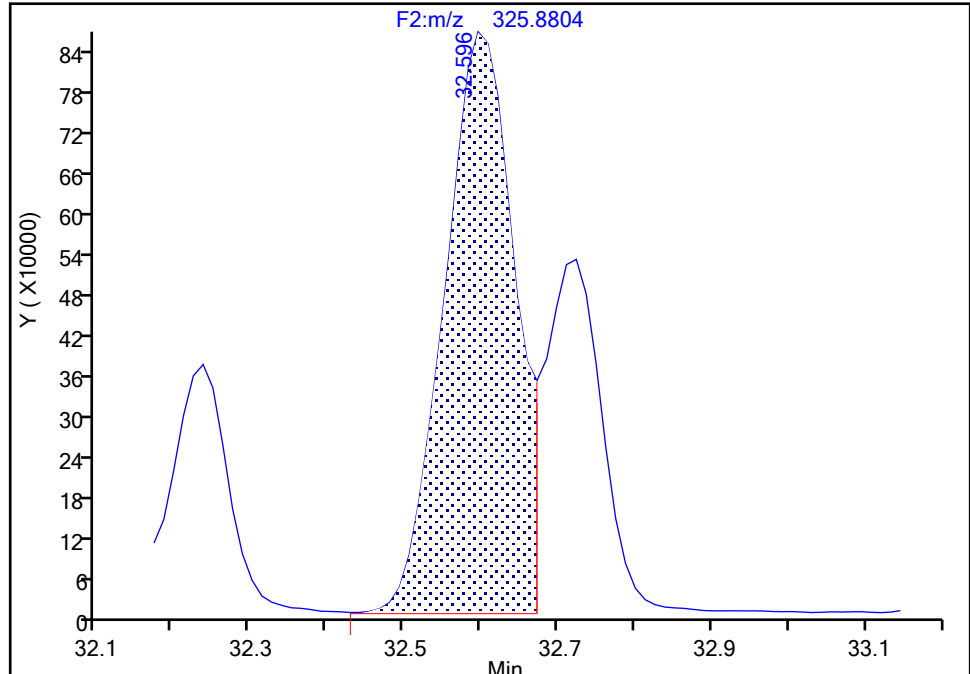
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

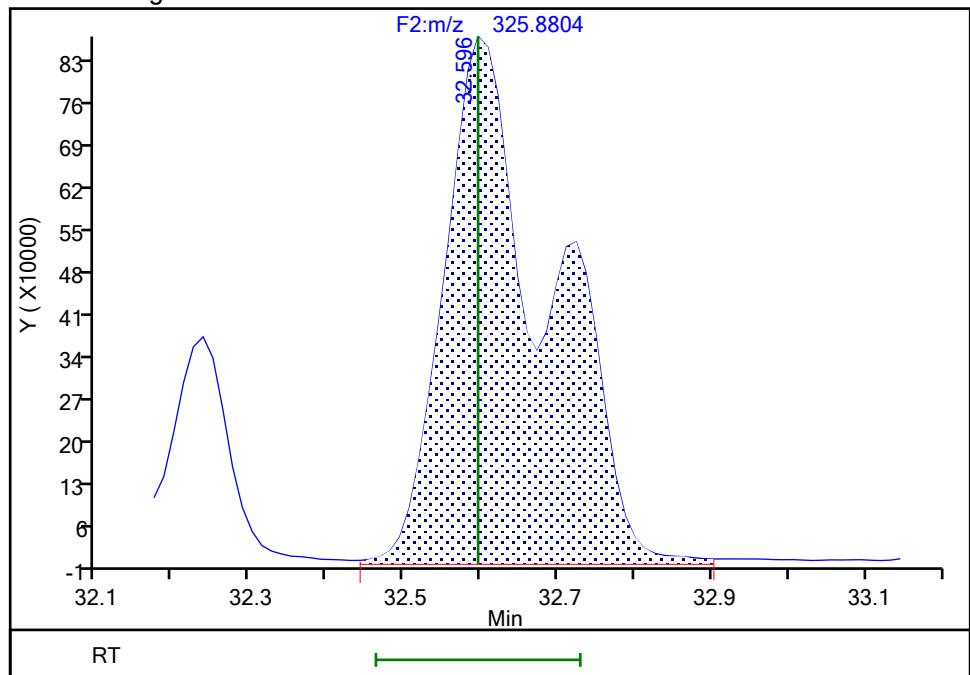
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Area: 5485149
Amount: 198.1663
Amount Units: pg/ul

Processing Integration Results



RT: 32.60
Area: 8215337
Amount: 296.5275
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:52:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

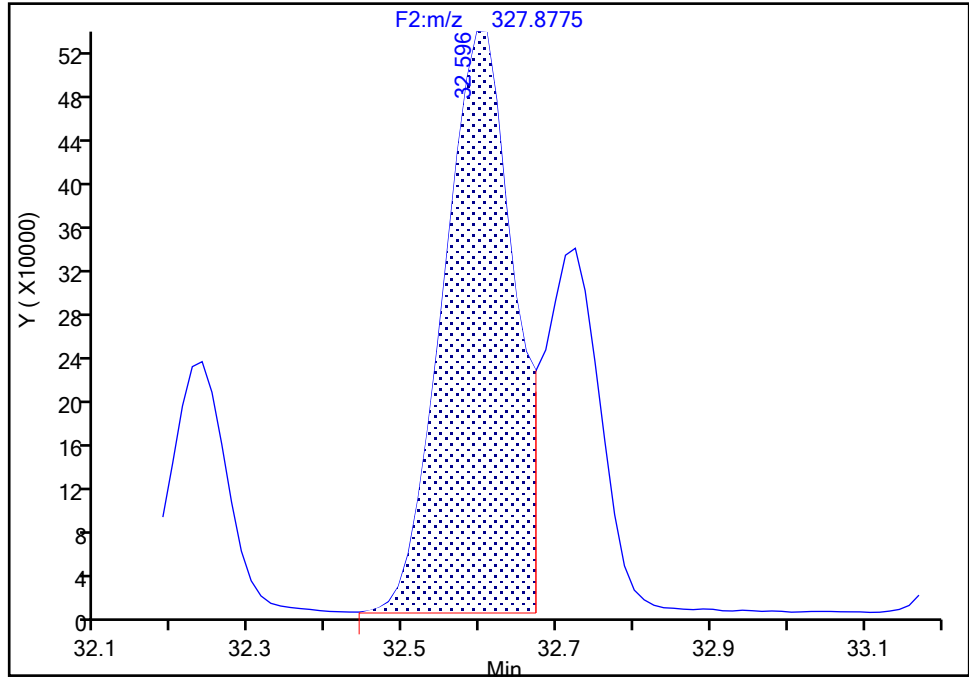
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

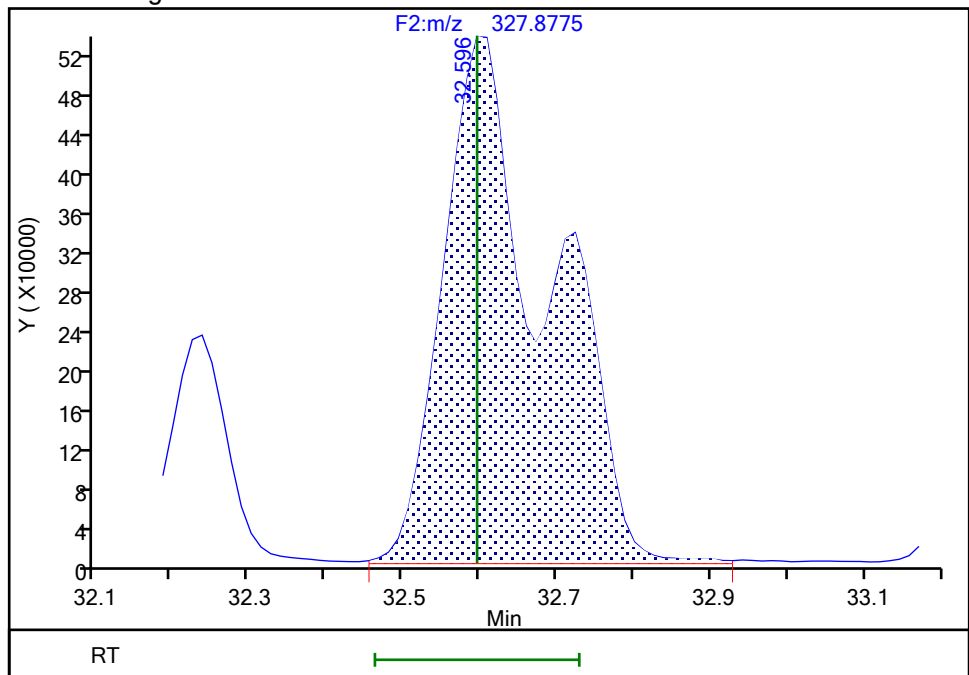
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Amount: 198.1663
Amount Units: pg/ul

Processing Integration Results



RT: 32.60
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Amount: 296.5275
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:52:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2701 of 3050

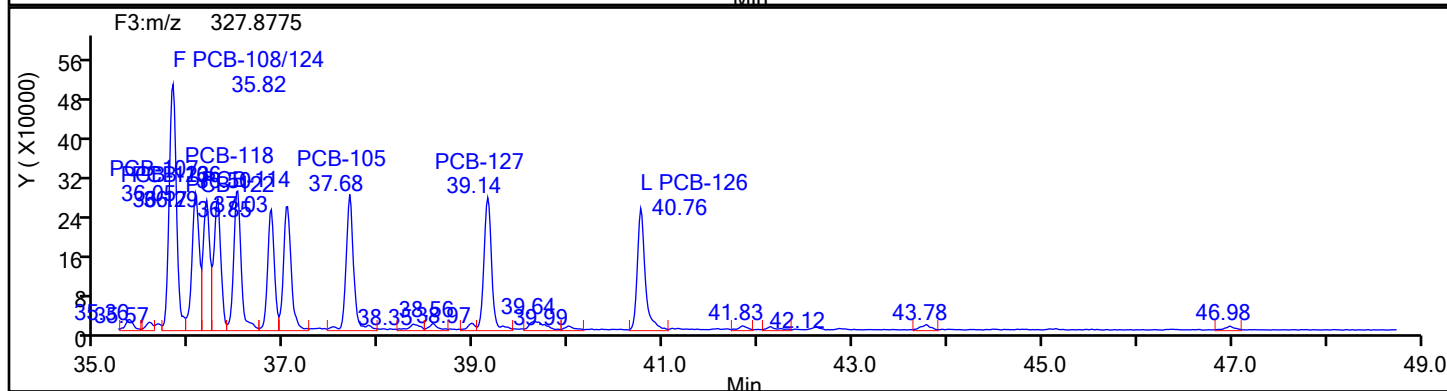
BASFWC-McIntosh-010702

9/6/2024

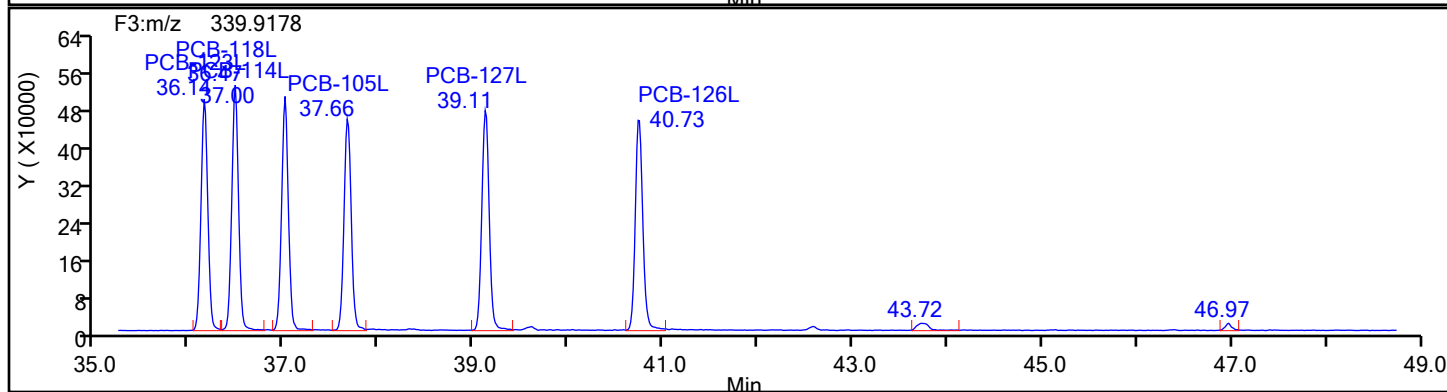
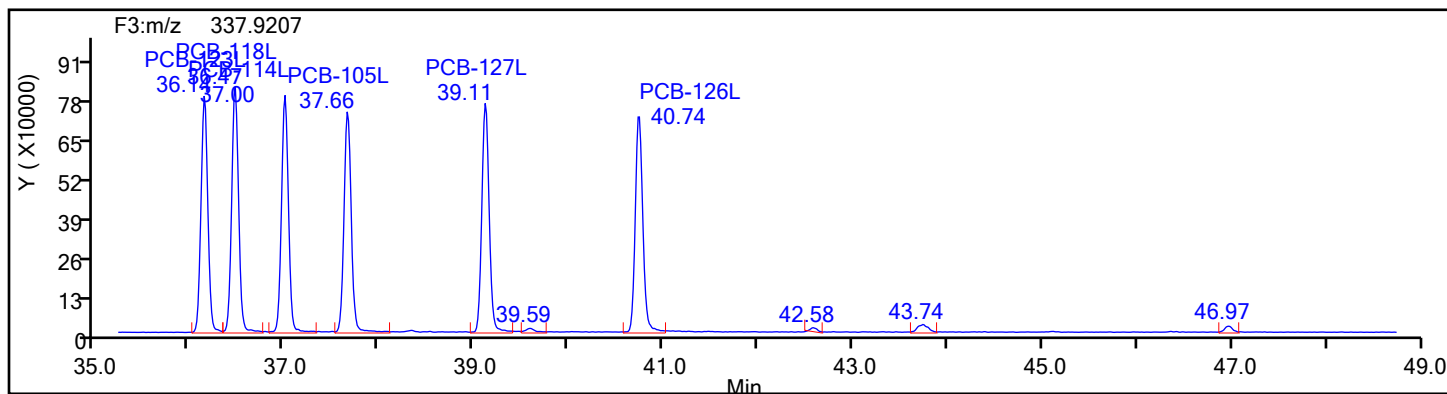
4:11:20 PM

Column Dia: 0.25 mm

Column Dia: 0.25 mm



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

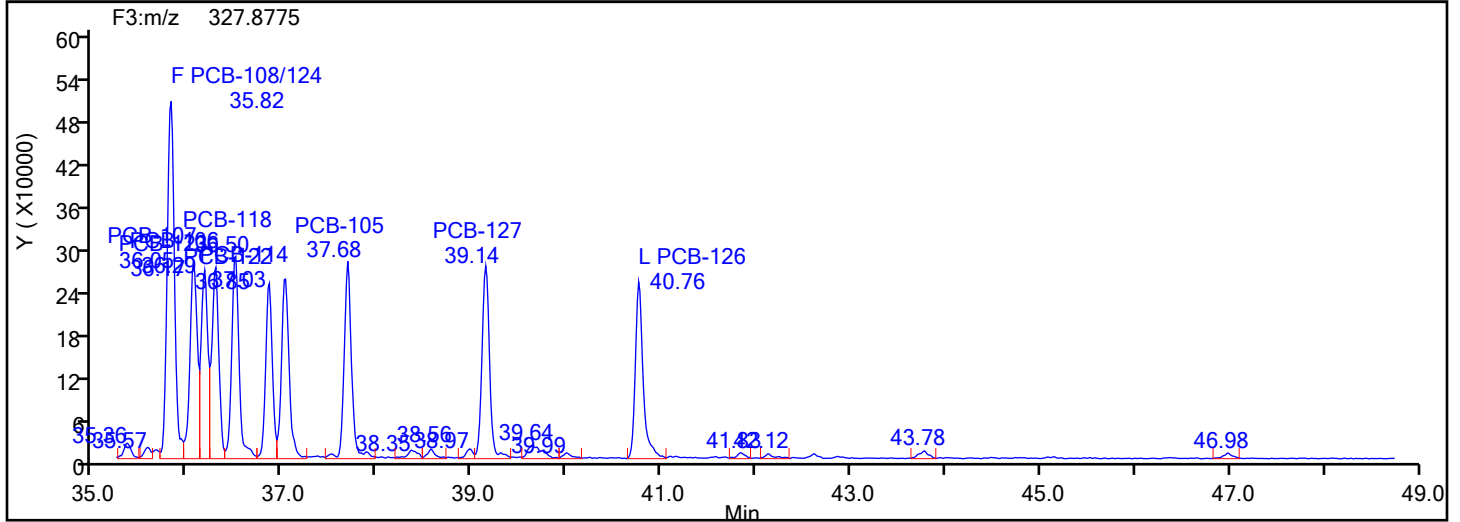
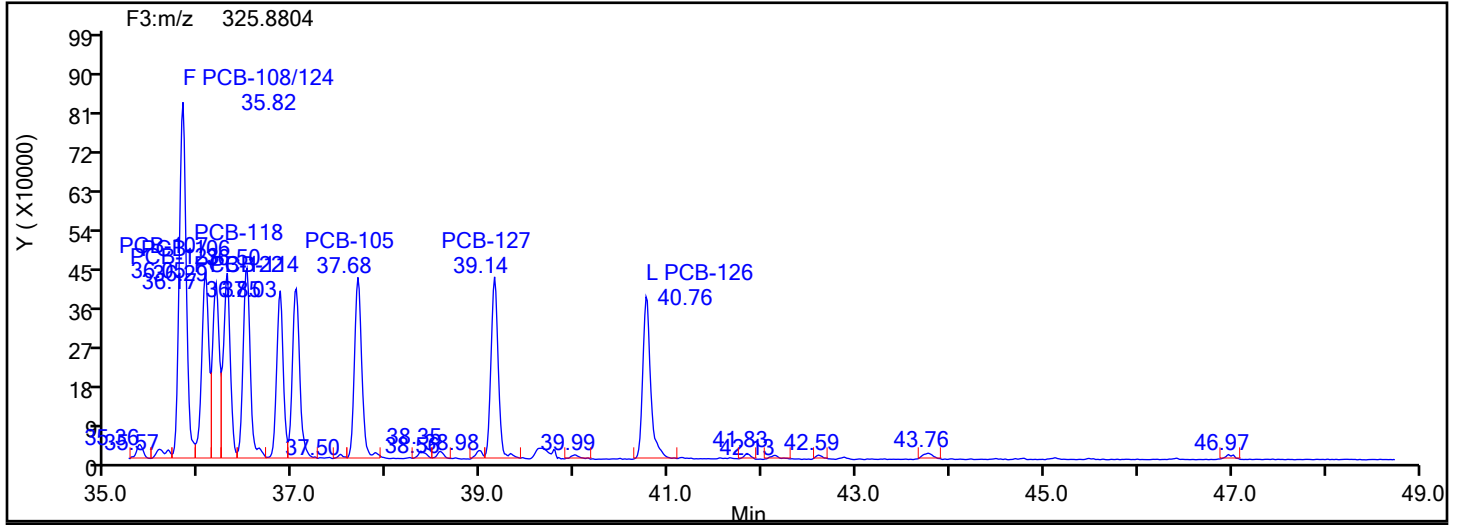
Worklist#: 88747

Sample Line#: 1

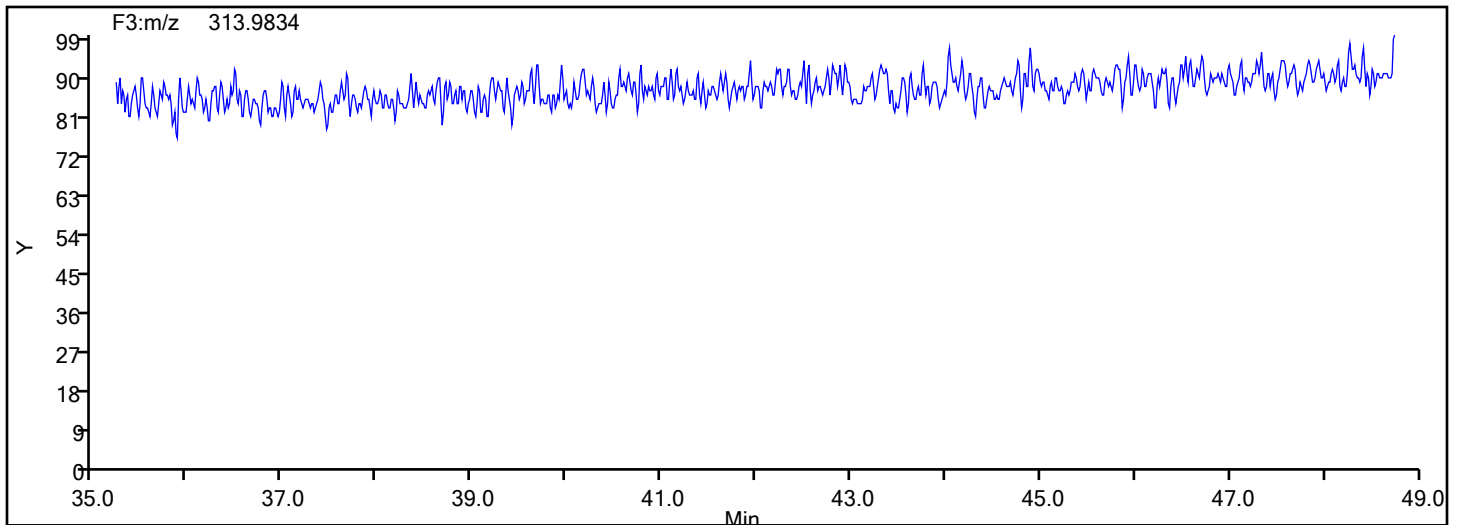
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

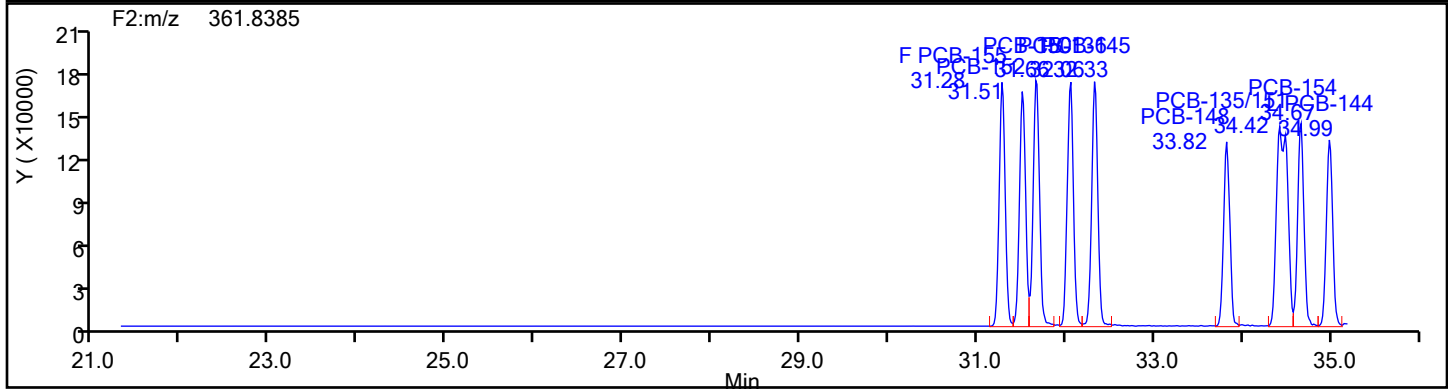
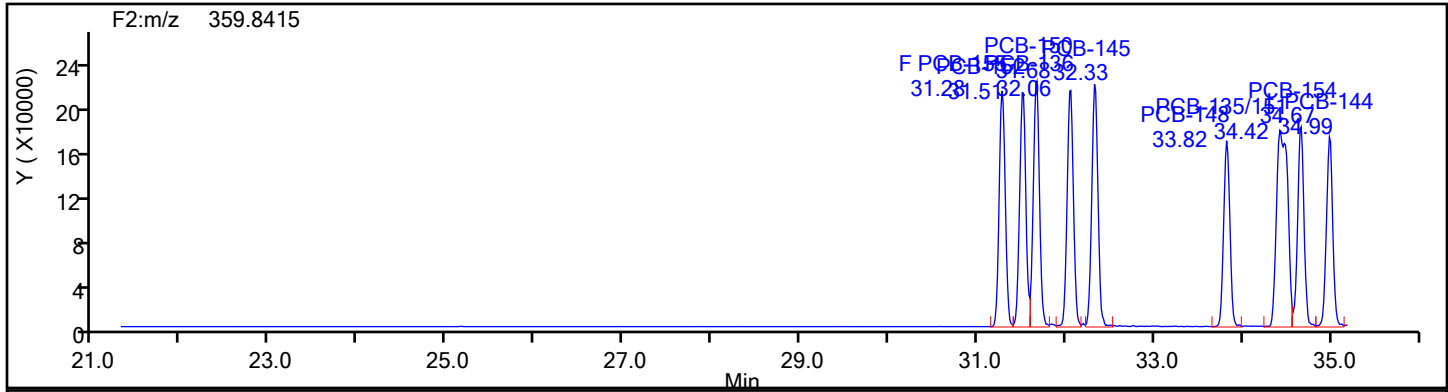


PePCB F3 Lock Mass

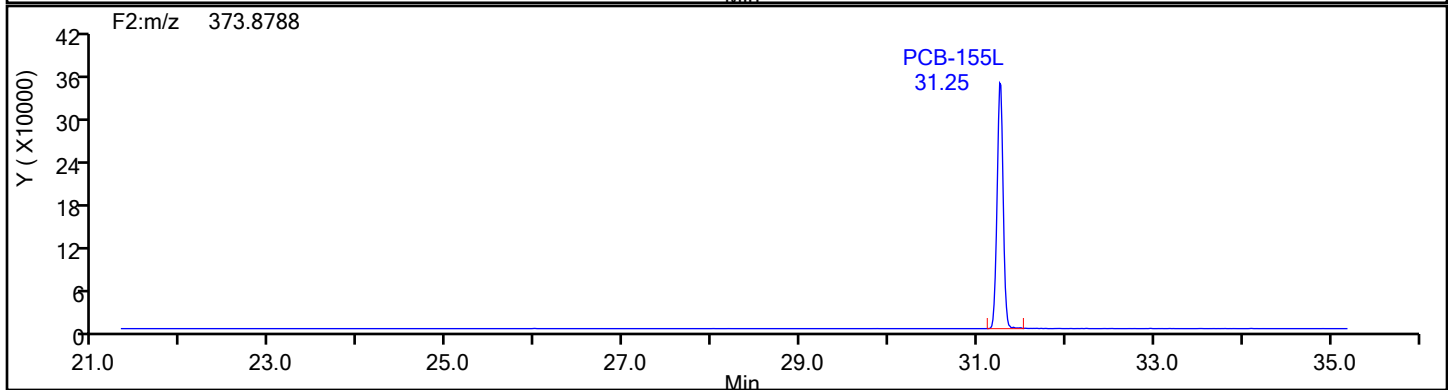
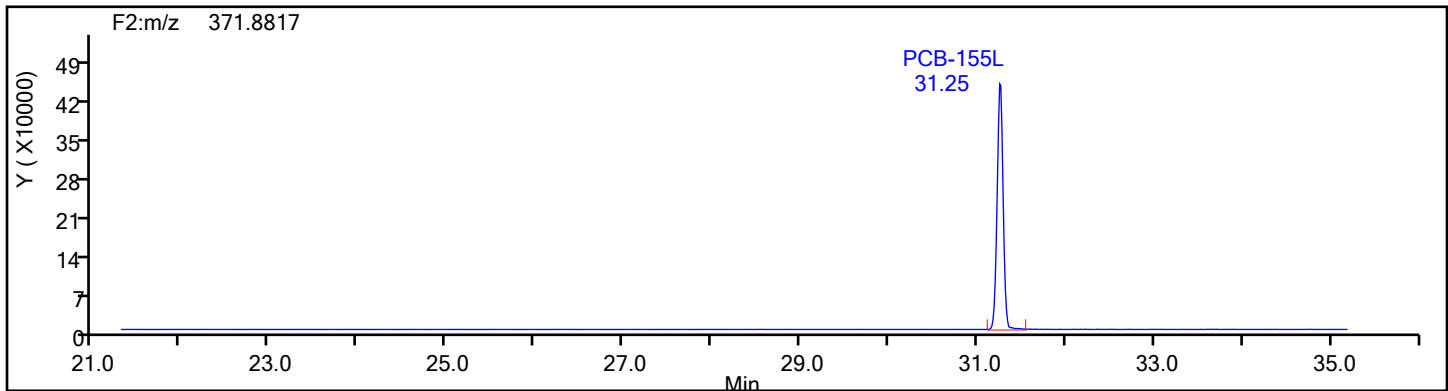


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2

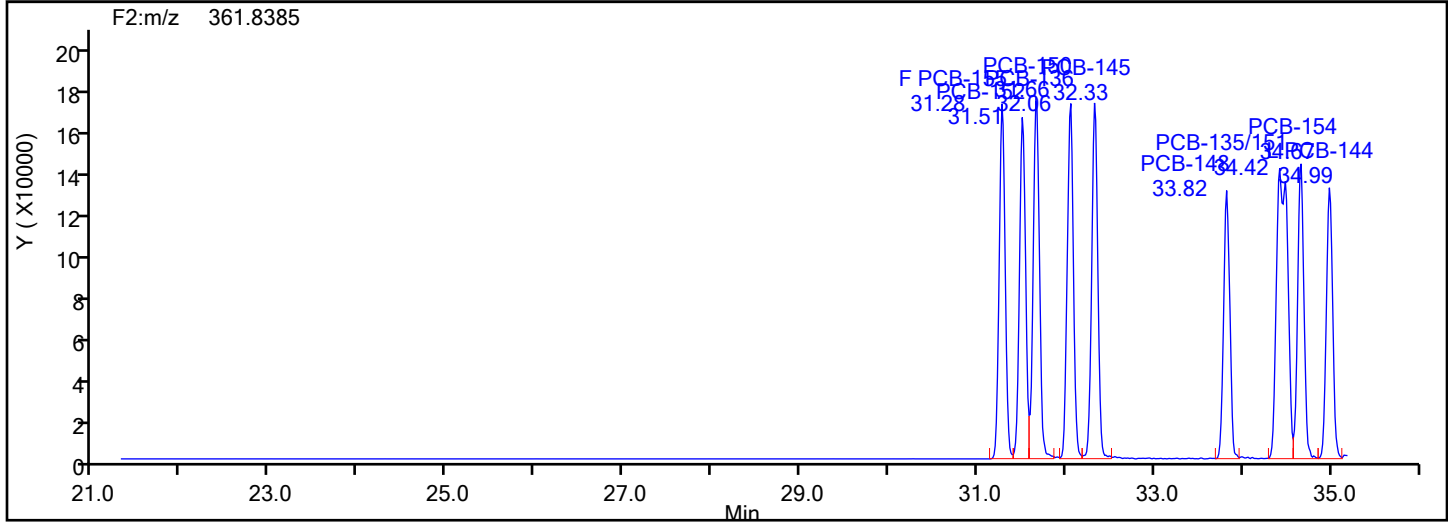
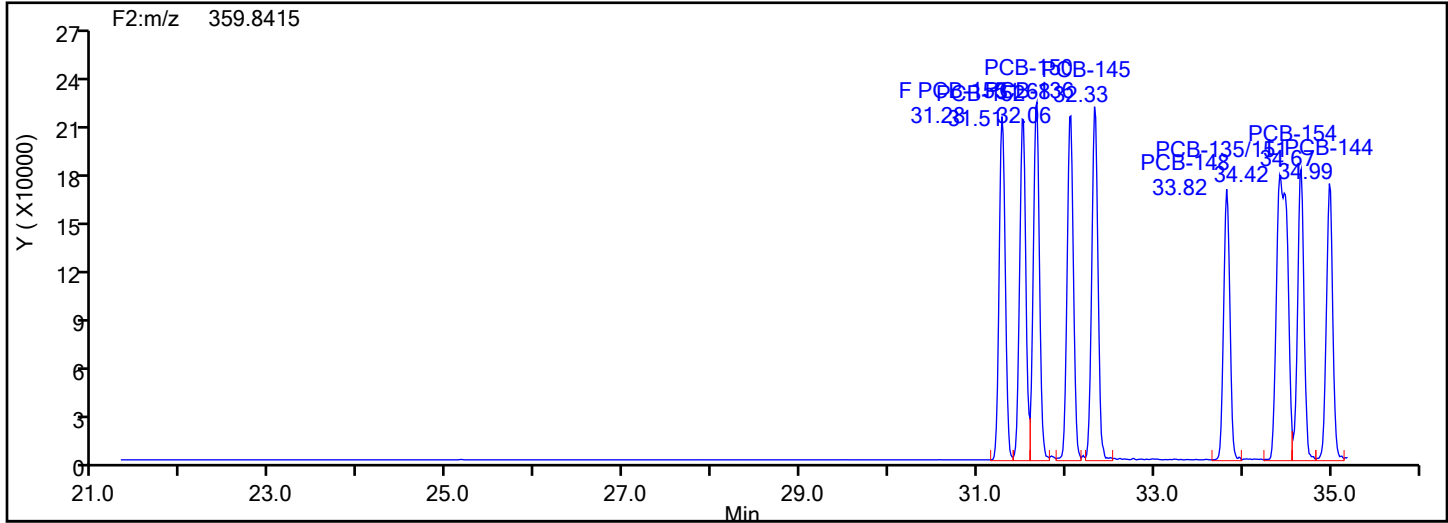


HxPCB F2 Standards

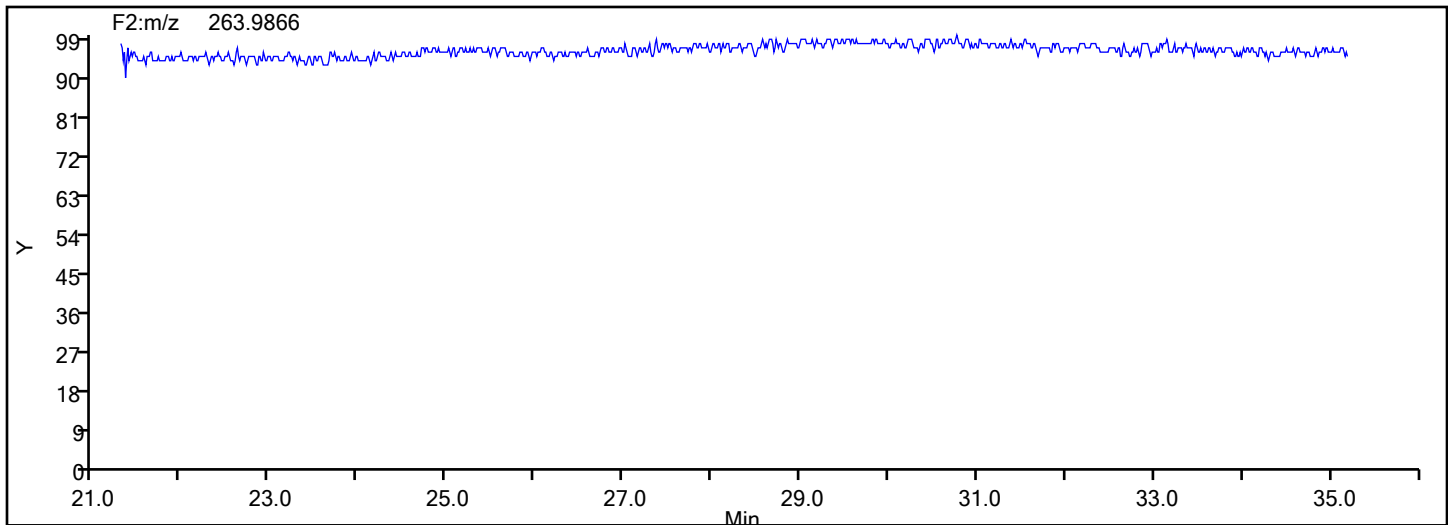


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

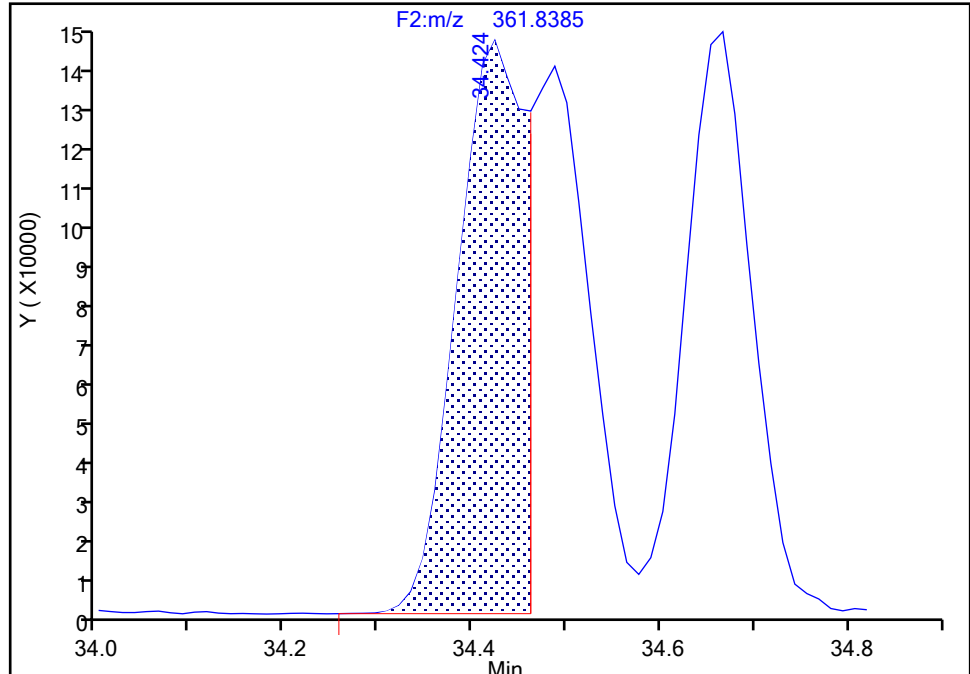
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

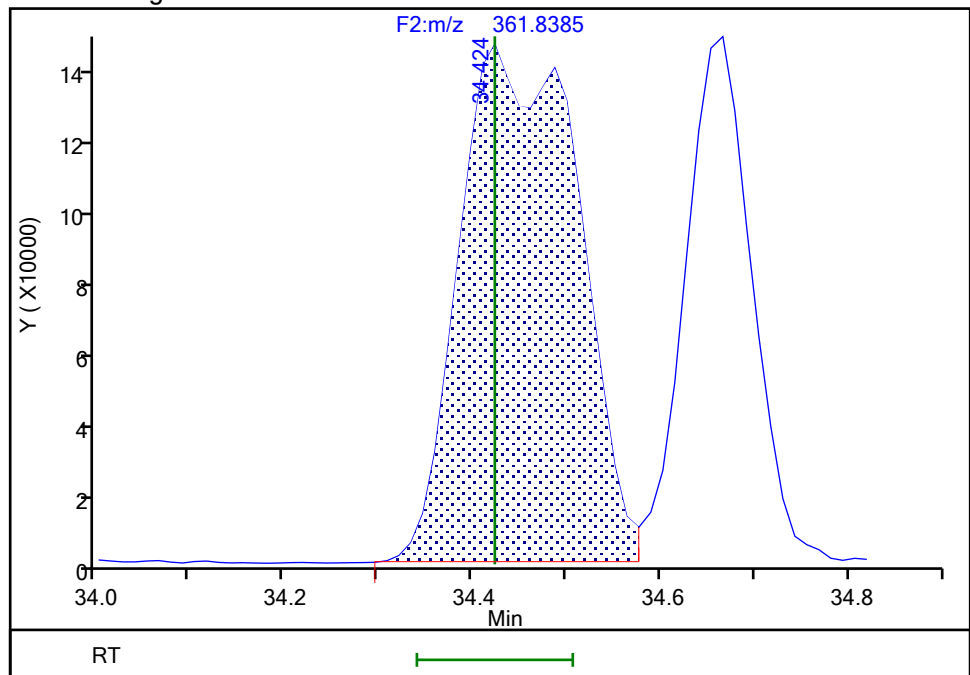
RT: 34.42
Area: 695848
Amount: 83.609960
Amount Units: pg/ul

Processing Integration Results



RT: 34.42
Area: 1249054
Amount: 103.9169
Amount Units: pg/ul

Manual Integration Results



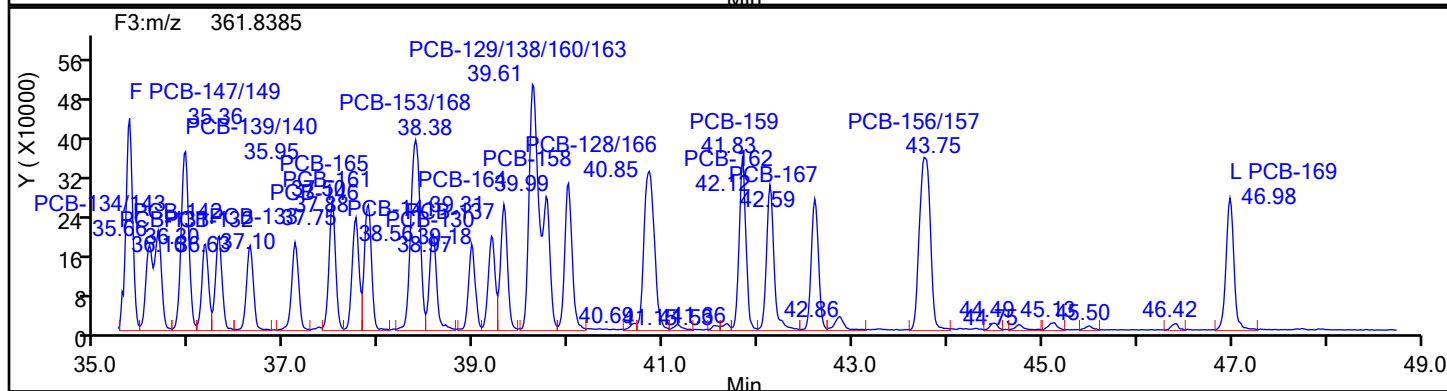
Reviewer: F9EE, 15-Jul-2024 13:52:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

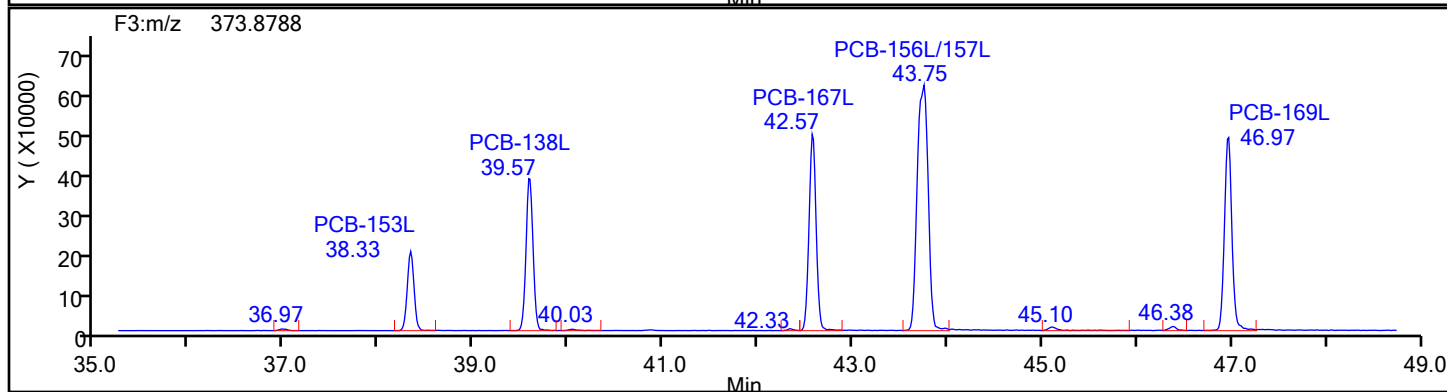
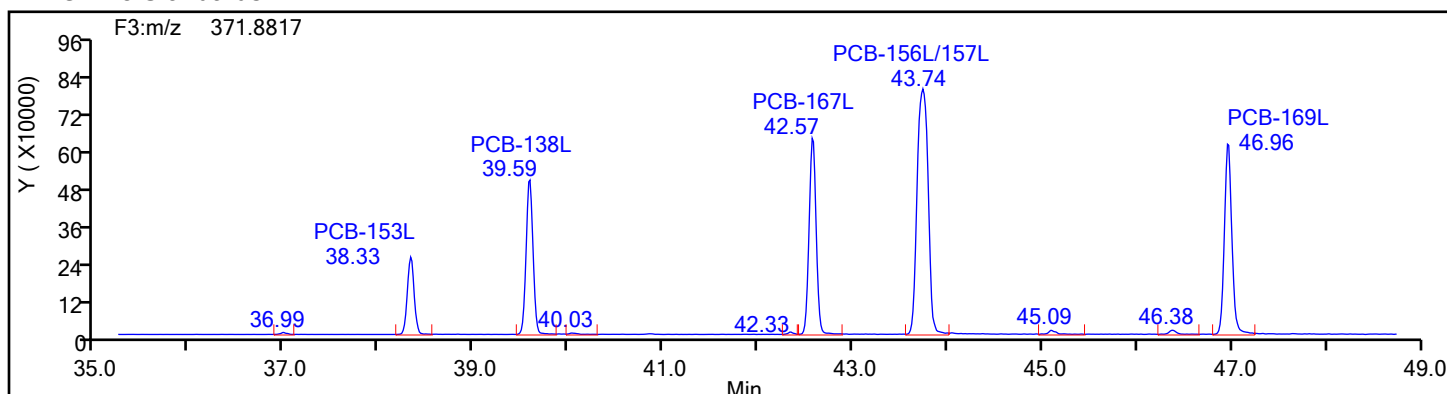
Audit Reason: Incomplete Integration

Chrom Revision: 2.3 26-Jun-2024 16:13:32

HxPCB F3



HxCPCB F3 Standards



Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

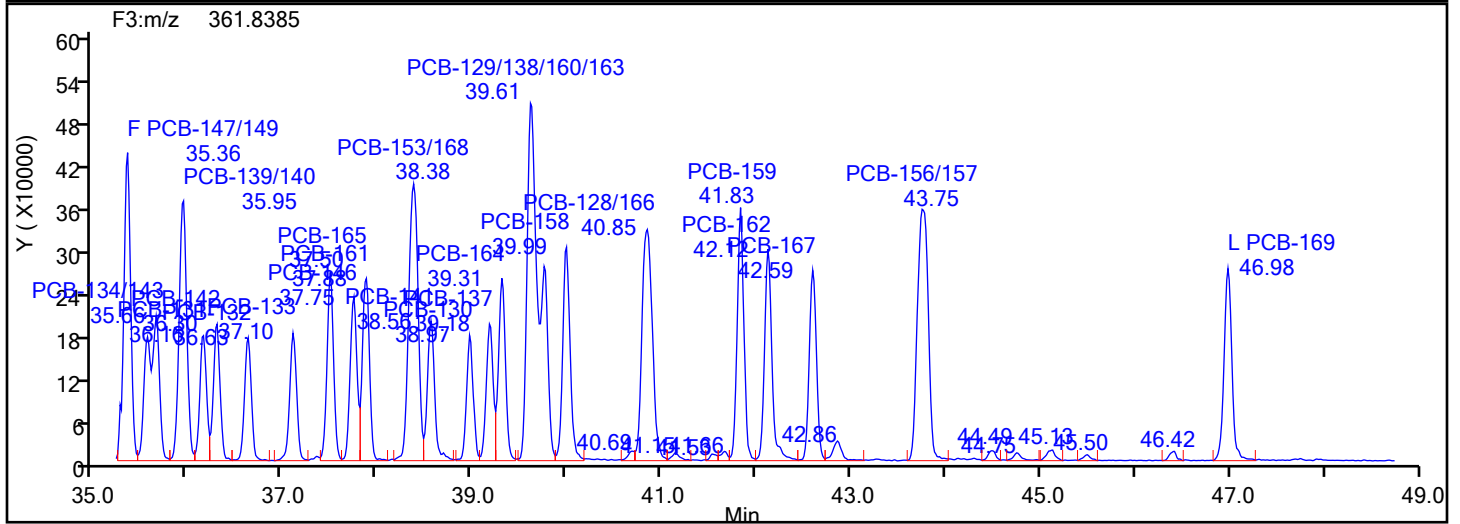
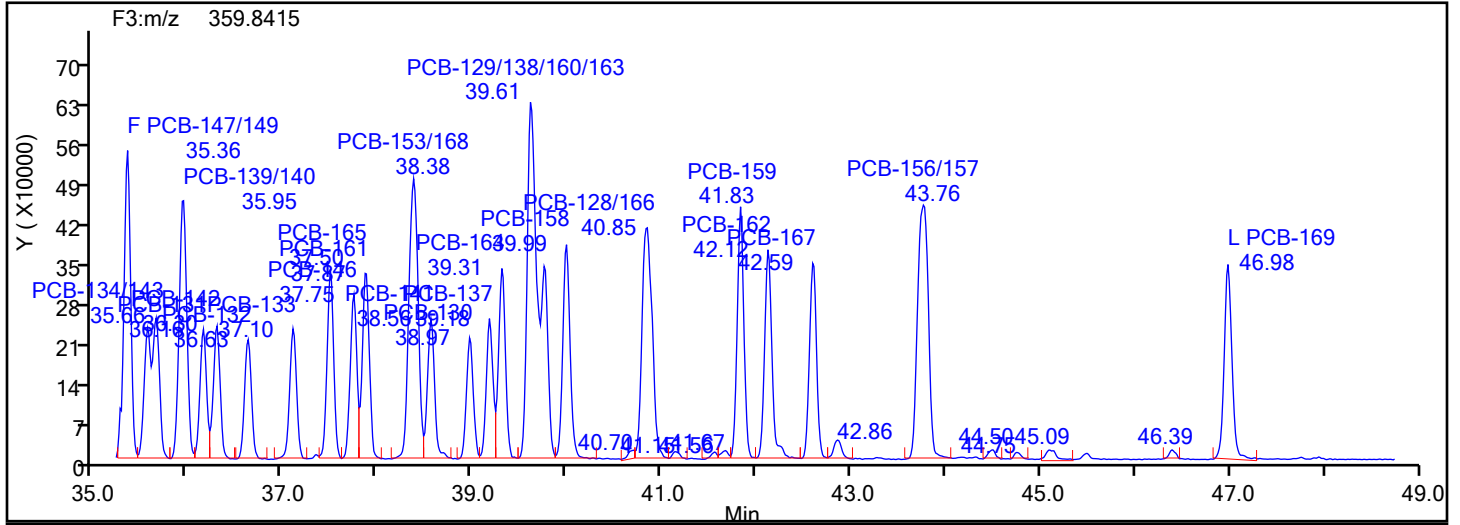
Worklist#: 88747

Sample Line#: 1

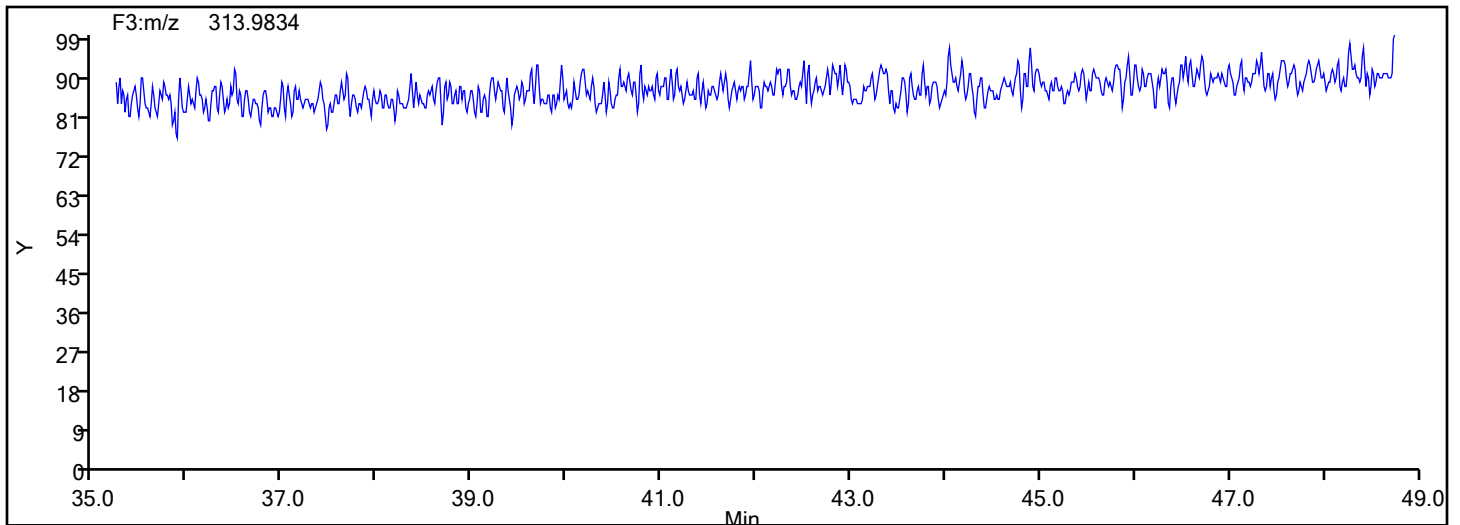
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

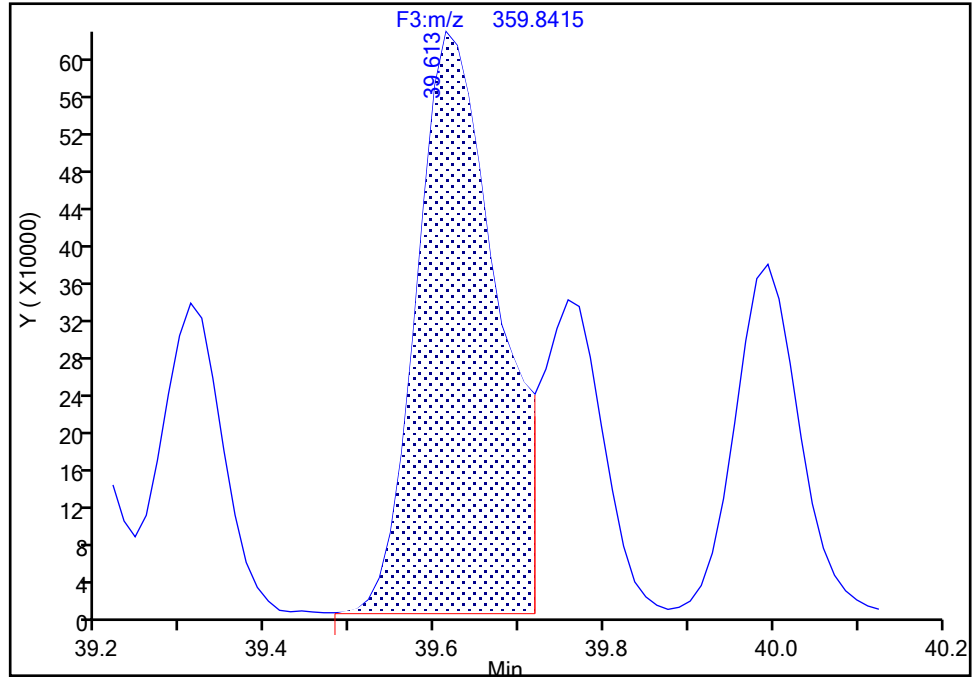
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

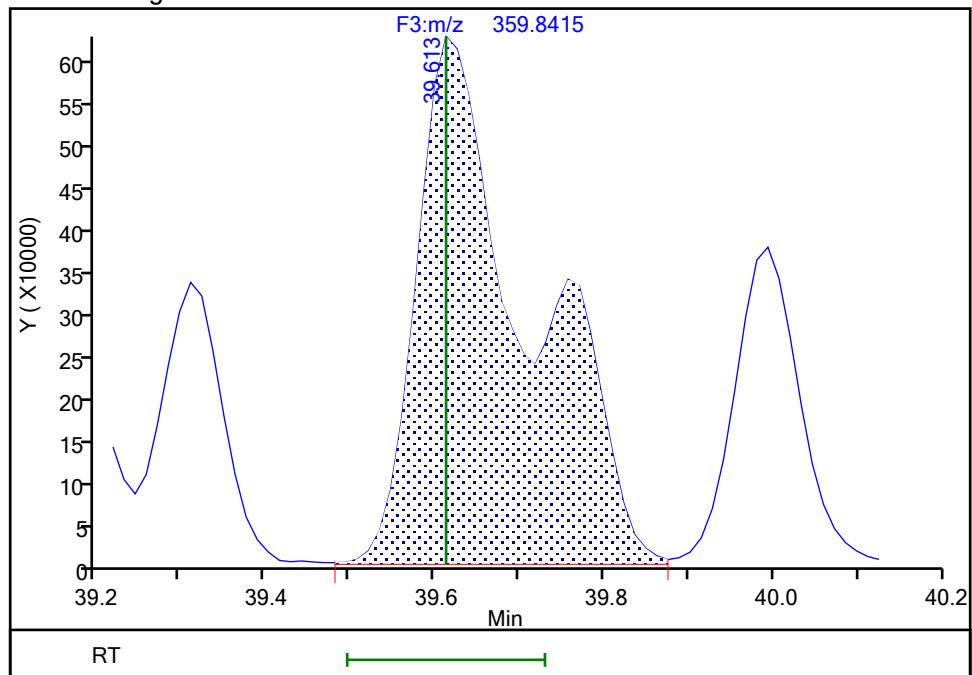
RT: 39.61
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Amount: 132.0987
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
Area: 5781725
Amount: 188.3000
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:53:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

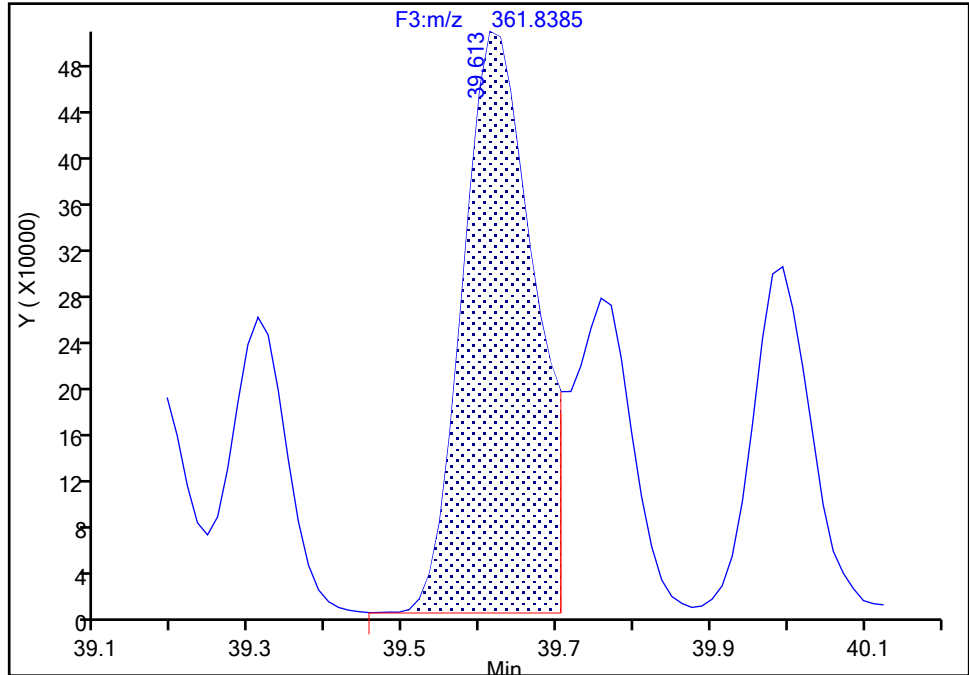
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

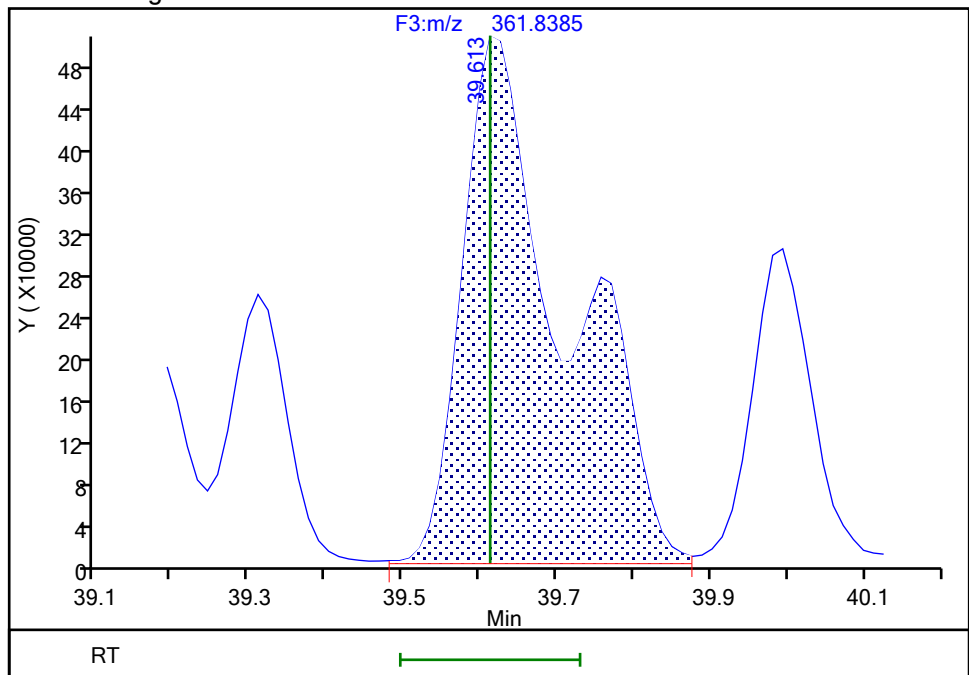
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Area: 3201327
Amount: 132.0987
Amount Units: pg/ul

Processing Integration Results



RT: 39.61
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Amount: 188.3000
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:53:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2710 of 3050

BASFHWC-McIntosh-010711

9/6/2024

4:11:20 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

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Injection Vol: 1.0 ul

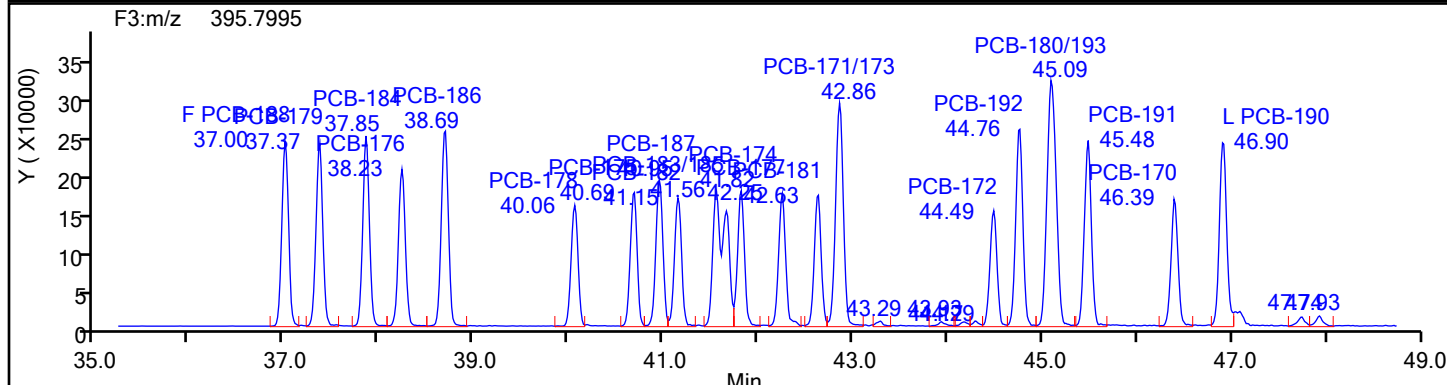
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

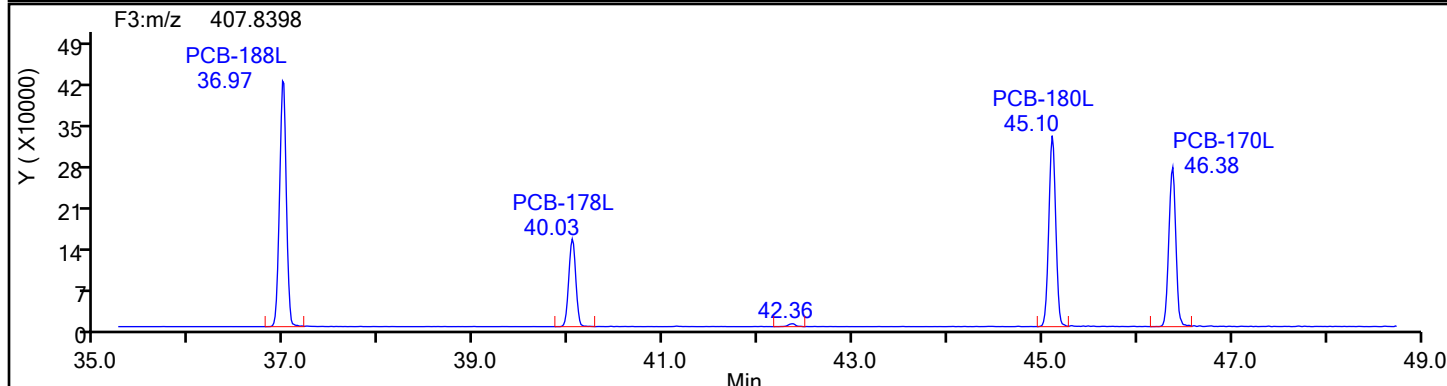
Sample Line#: 1

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

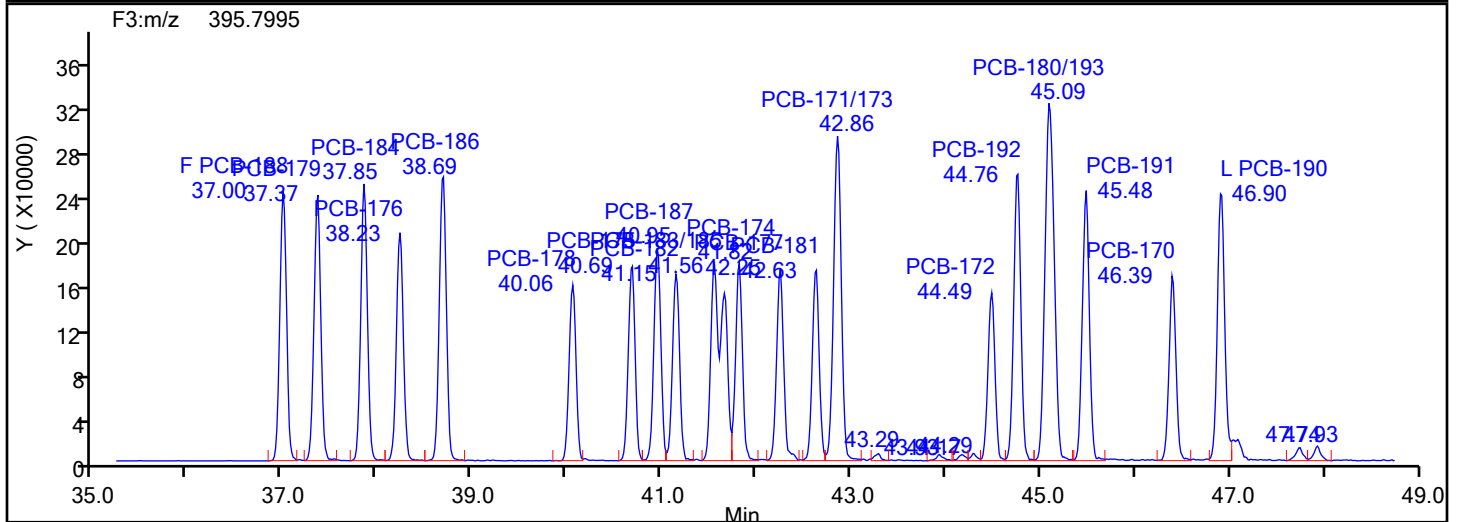
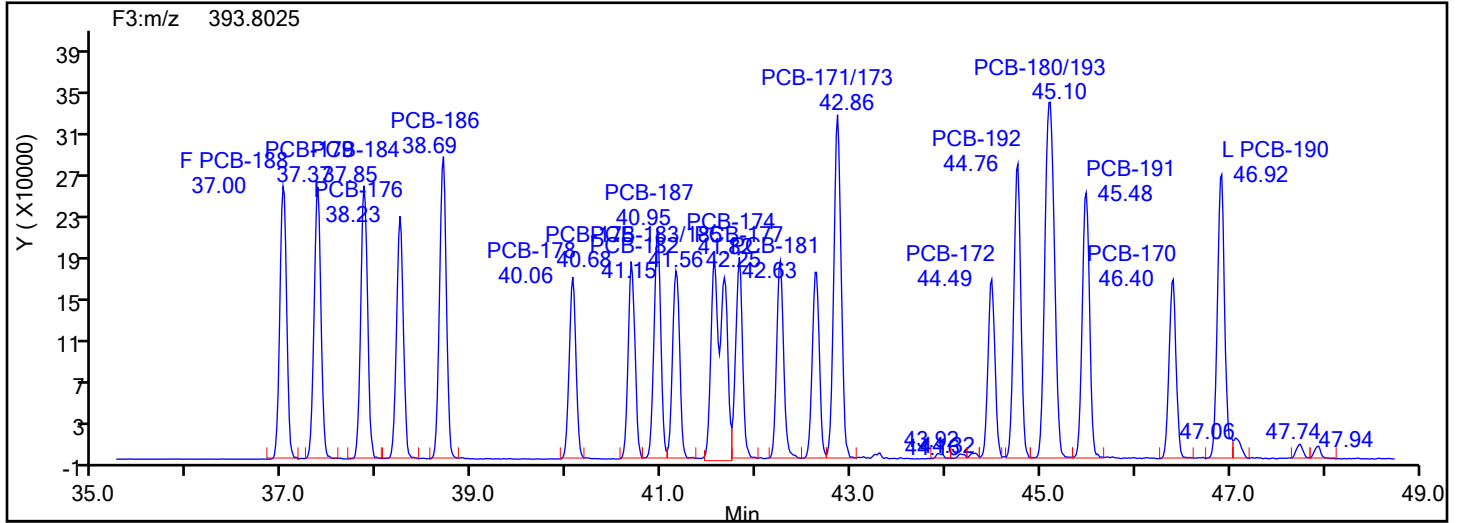
Worklist#: 88747

Sample Line#: 1

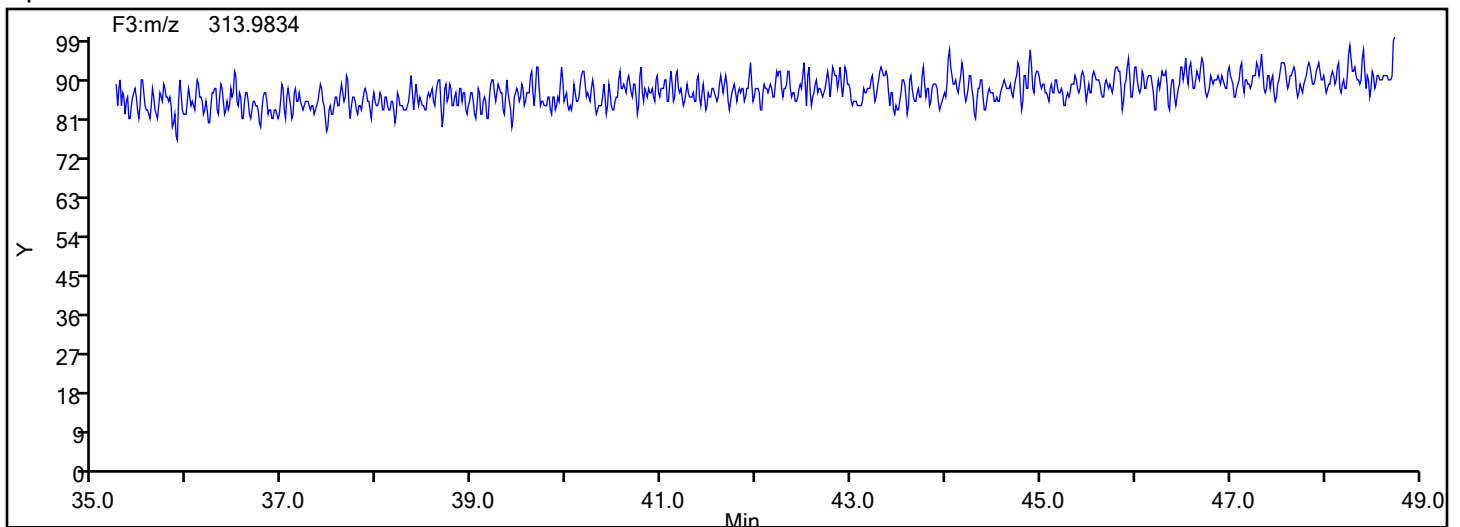
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

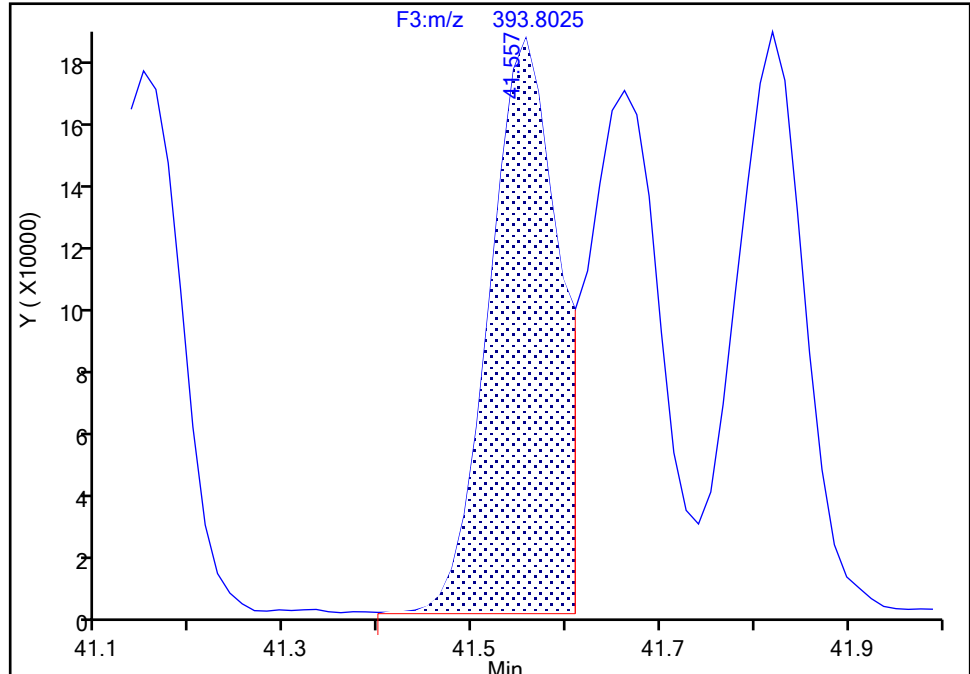
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

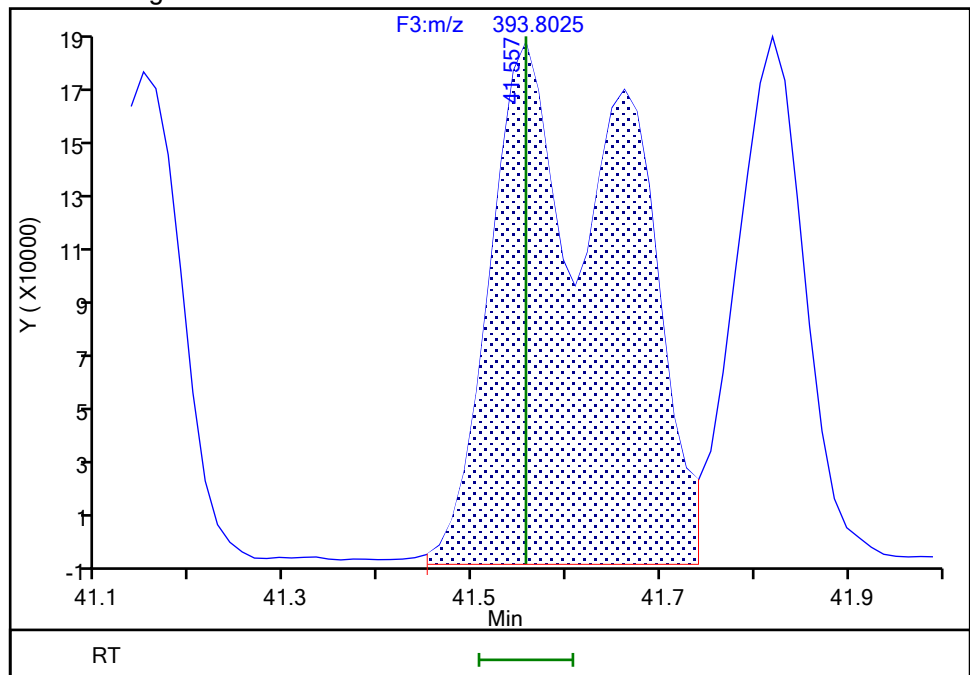
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Amount: 51.547291
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1827264
Amount: 98.480827
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:53:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville

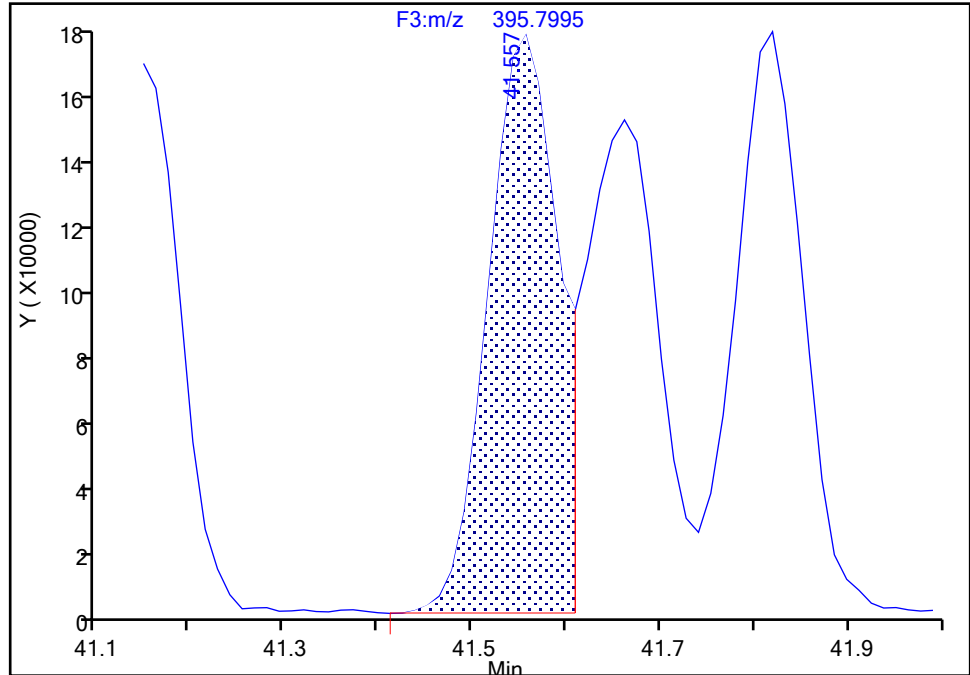
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Injection Date: 15-Jul-2024 12:43:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

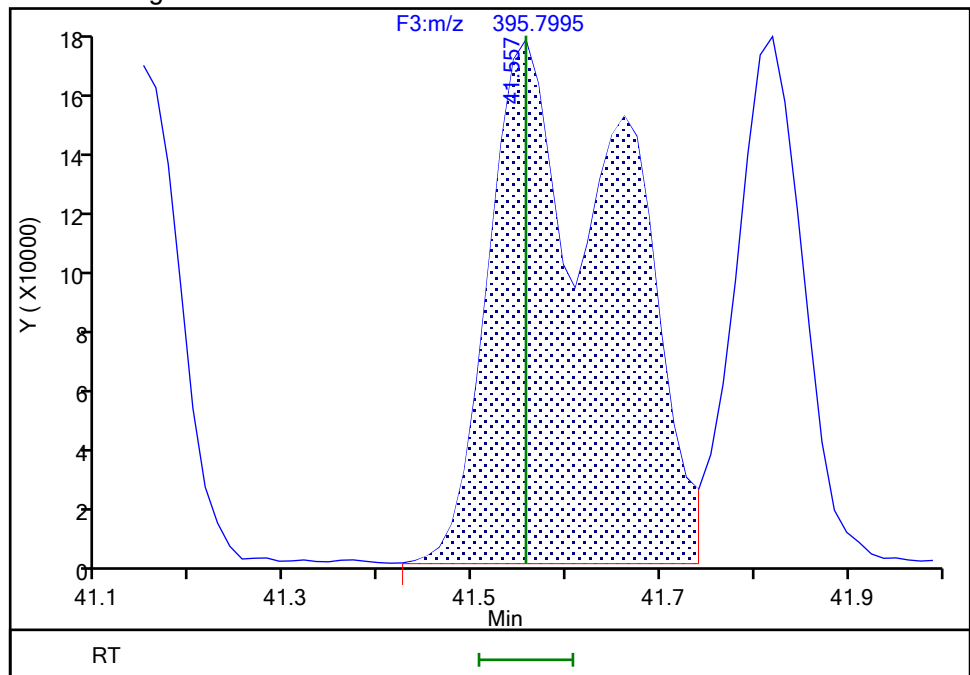
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Amount: 51.547291
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1702054
Amount: 98.480827
Amount Units: pg/ul

Manual Integration Results



Reviewer: F9EE, 15-Jul-2024 13:54:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Page 2714 of 3050

BASFHCW-McIntosh-010715
9/6/2024

4:11:20 PM

Eurofins Knoxville

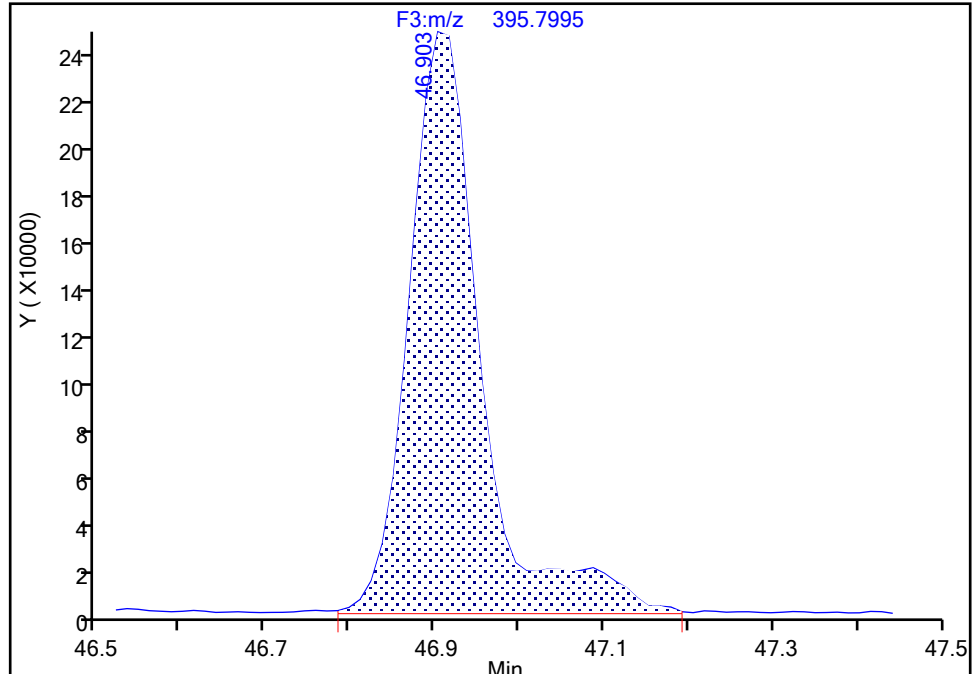
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Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-190, CAS: 41411-64-7

Signal: 2

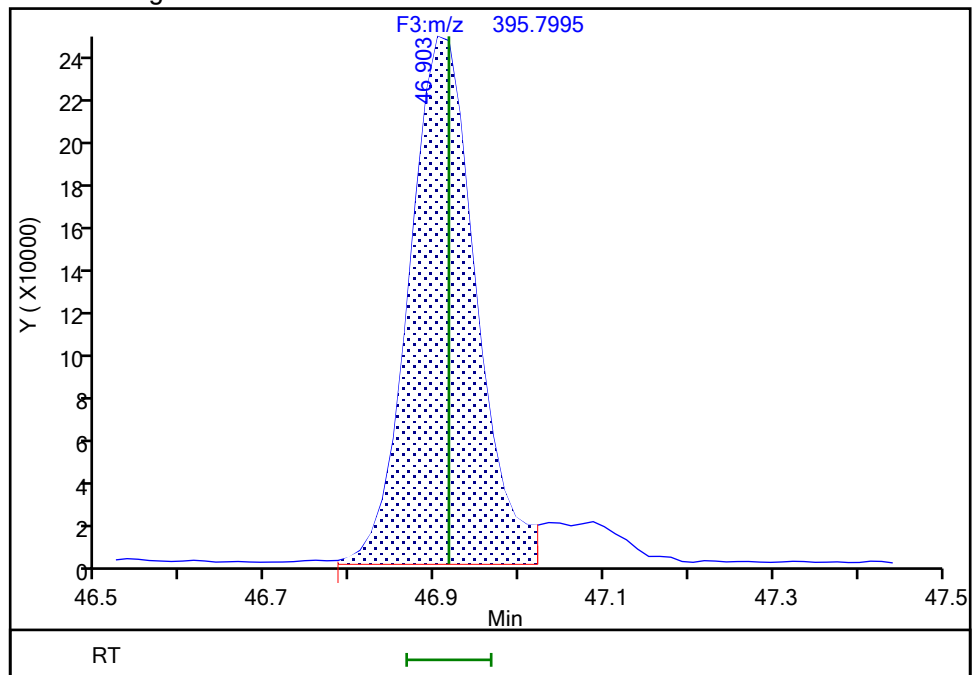
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Area: 1445451
Amount: 59.407581
Amount Units: pg/ul

Processing Integration Results



RT: 46.90
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Amount Units: pg/ul

Manual Integration Results



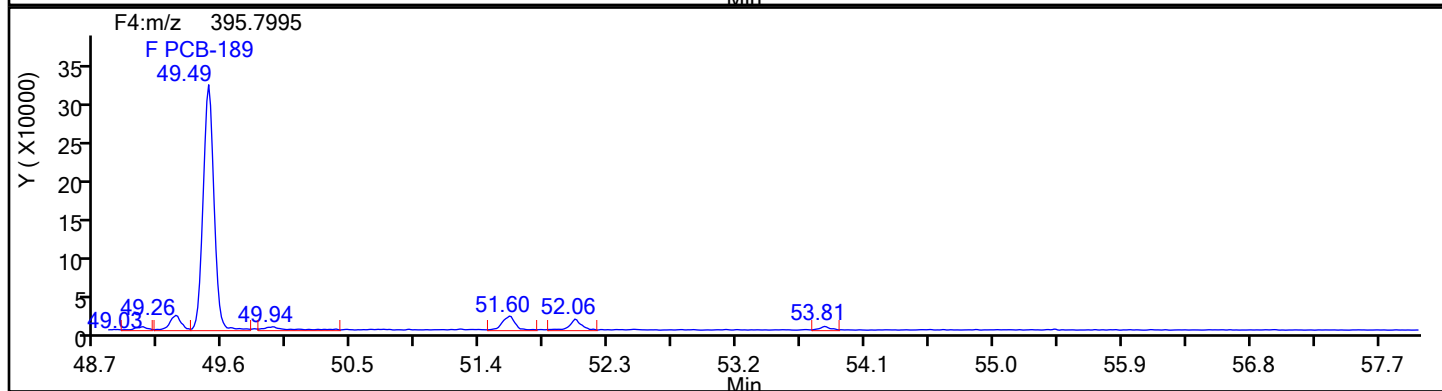
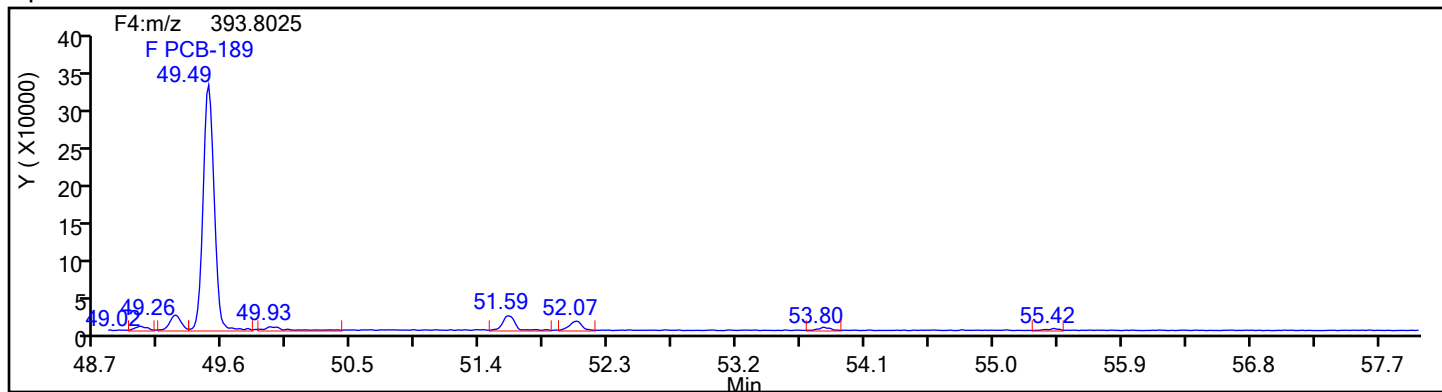
Reviewer: F9EE, 15-Jul-2024 13:54:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

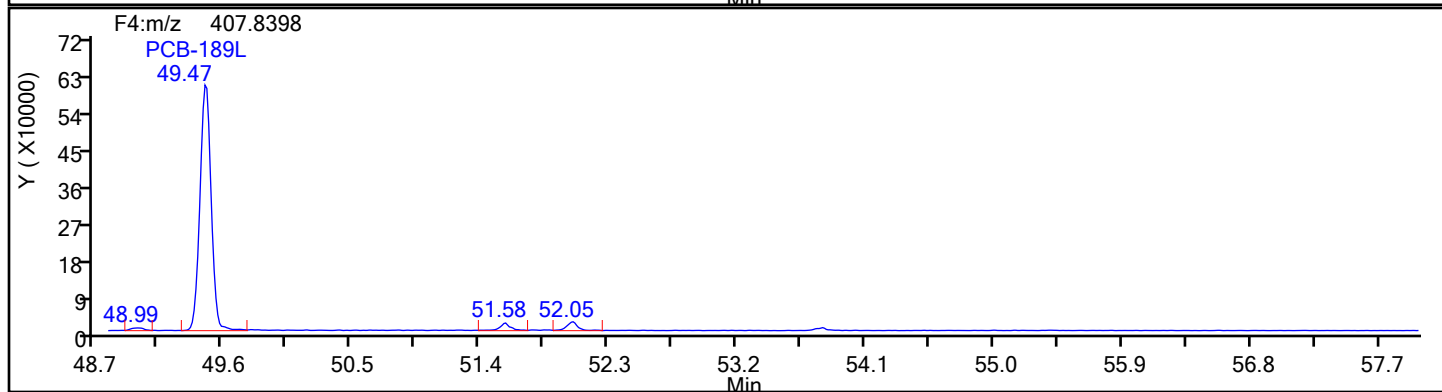
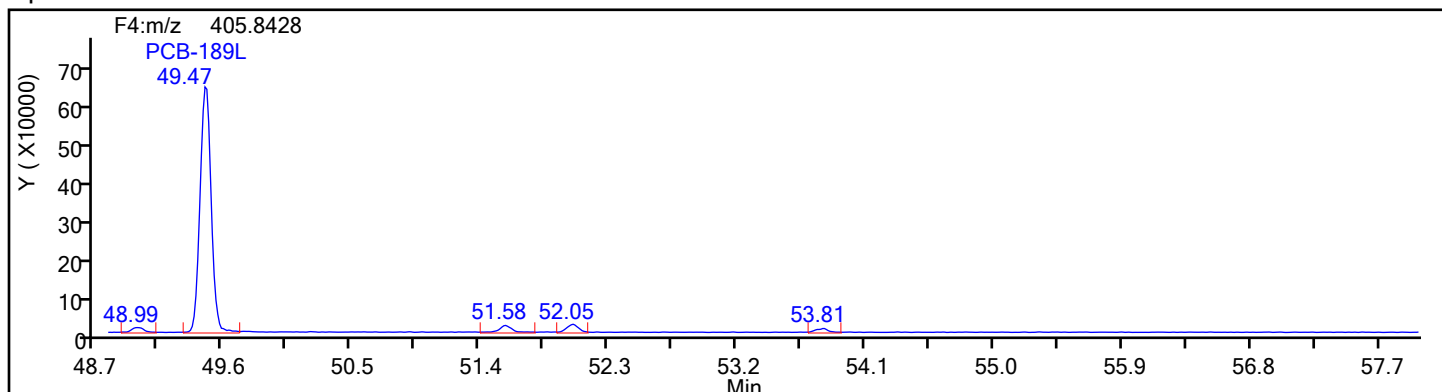
Audit Reason: Incomplete Integration

Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

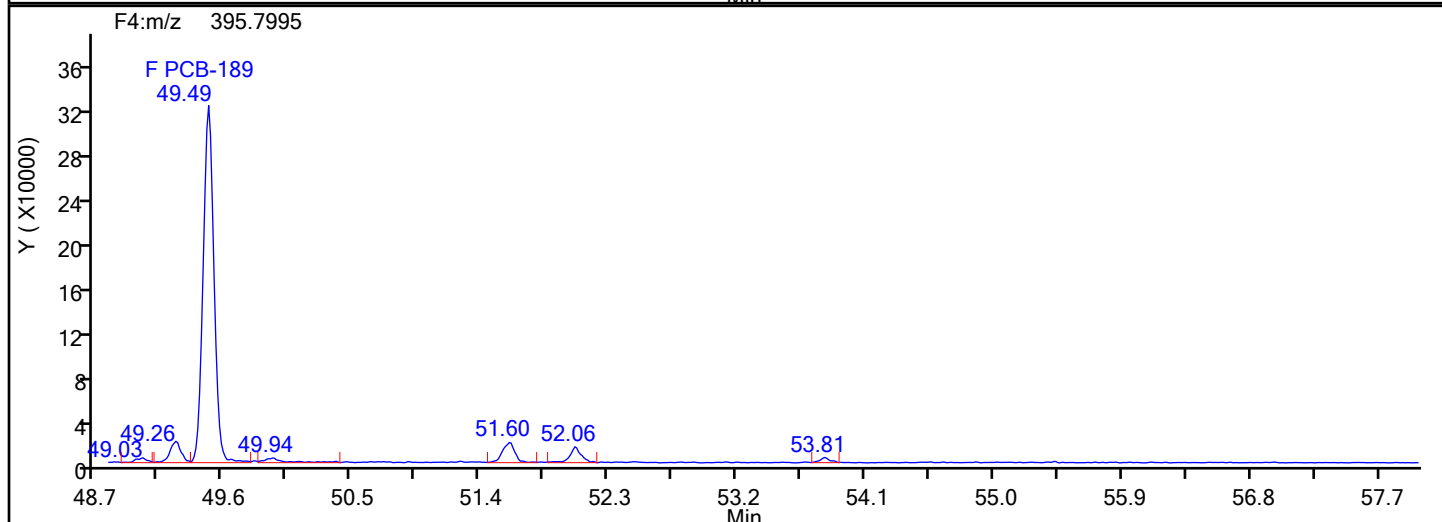
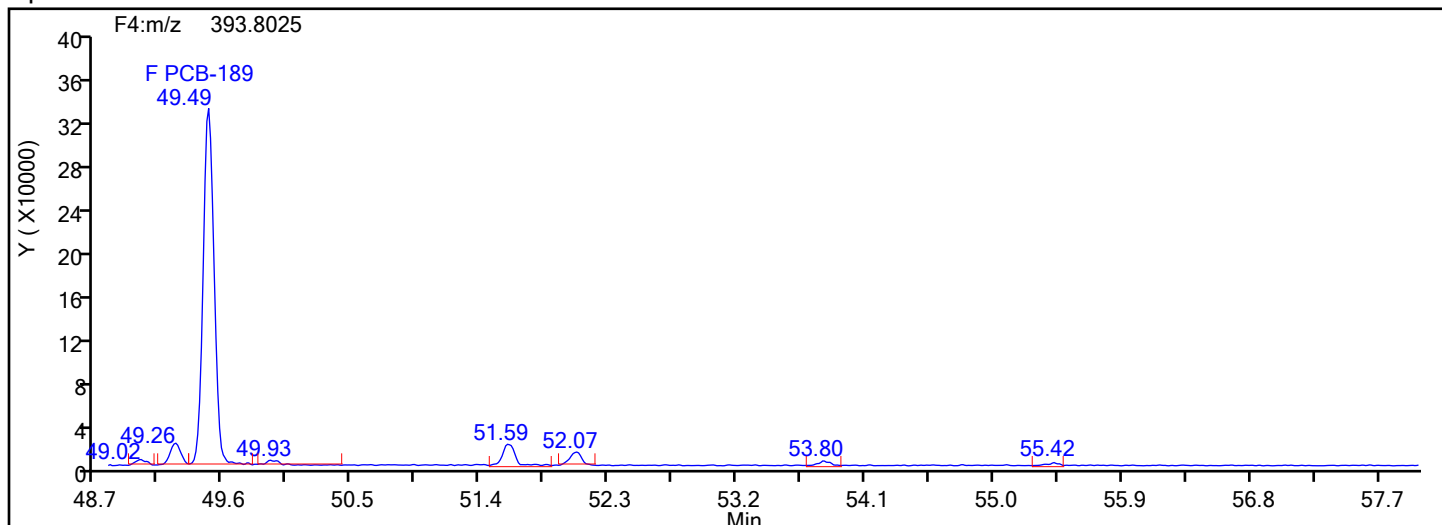
Worklist#: 88747

Sample Line#: 1

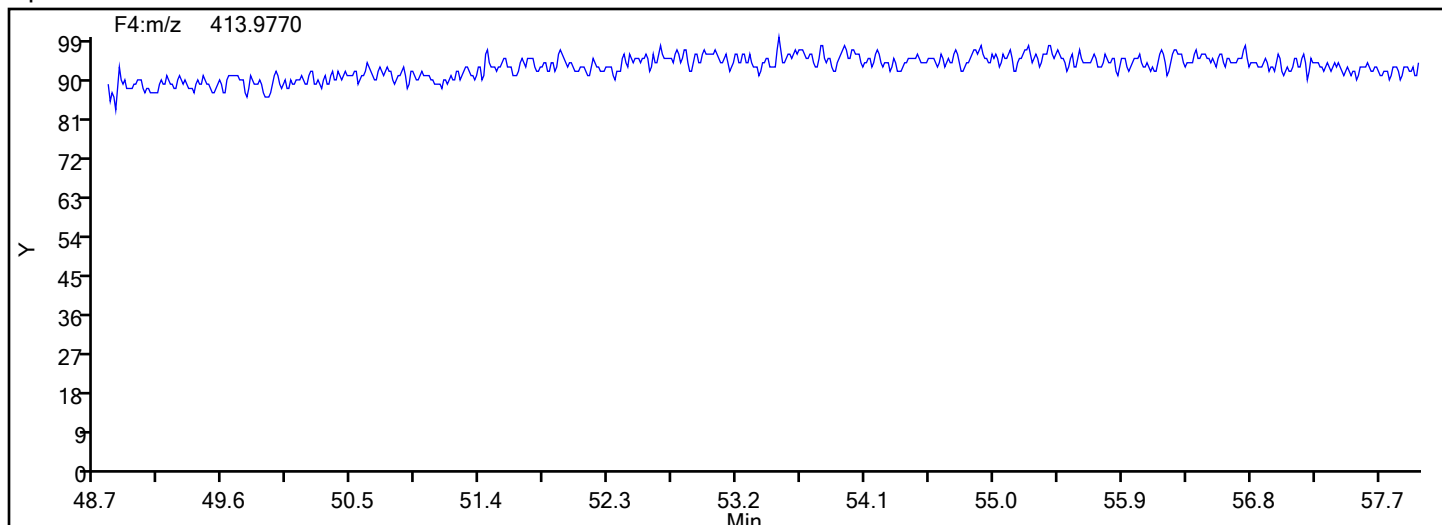
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

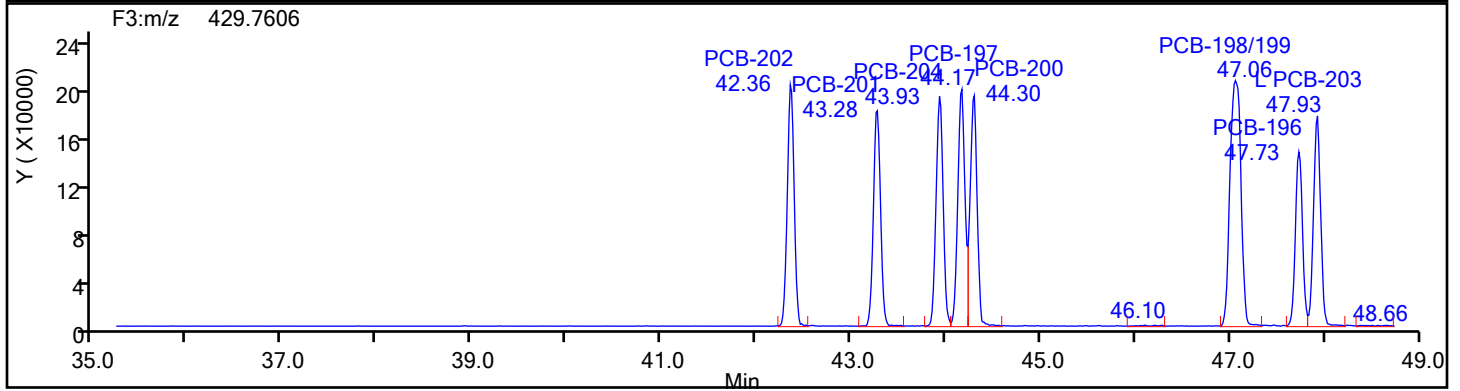
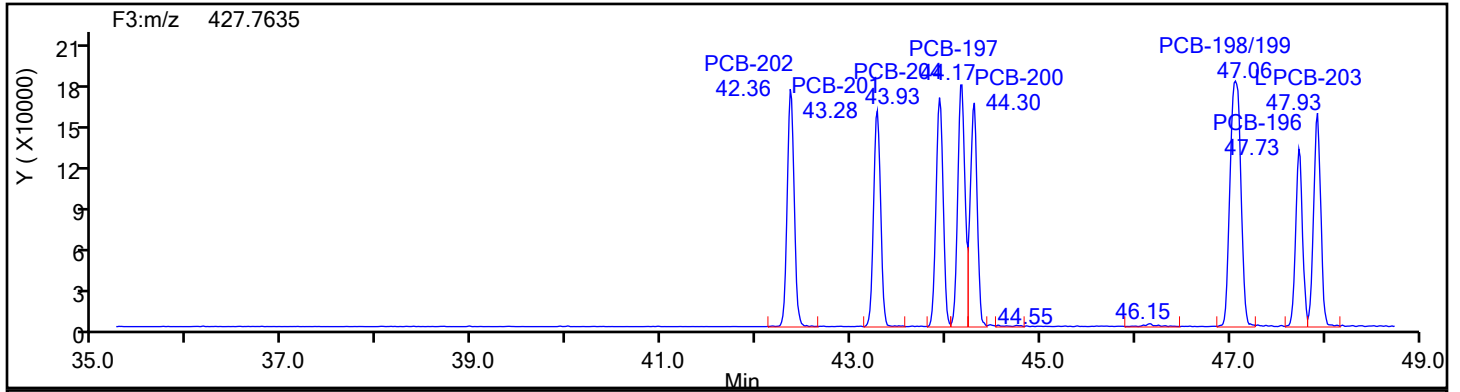
Worklist#: 88747

Sample Line#: 1

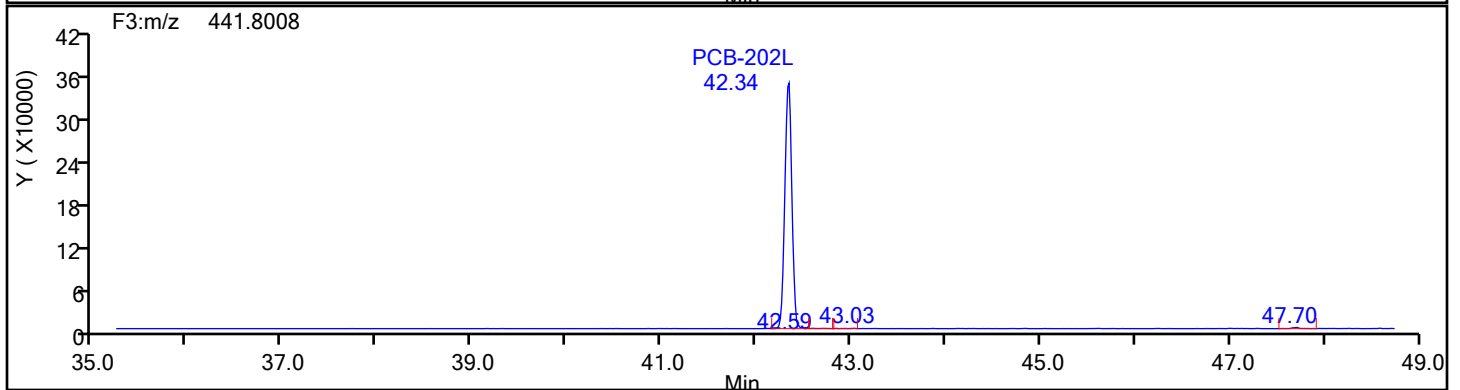
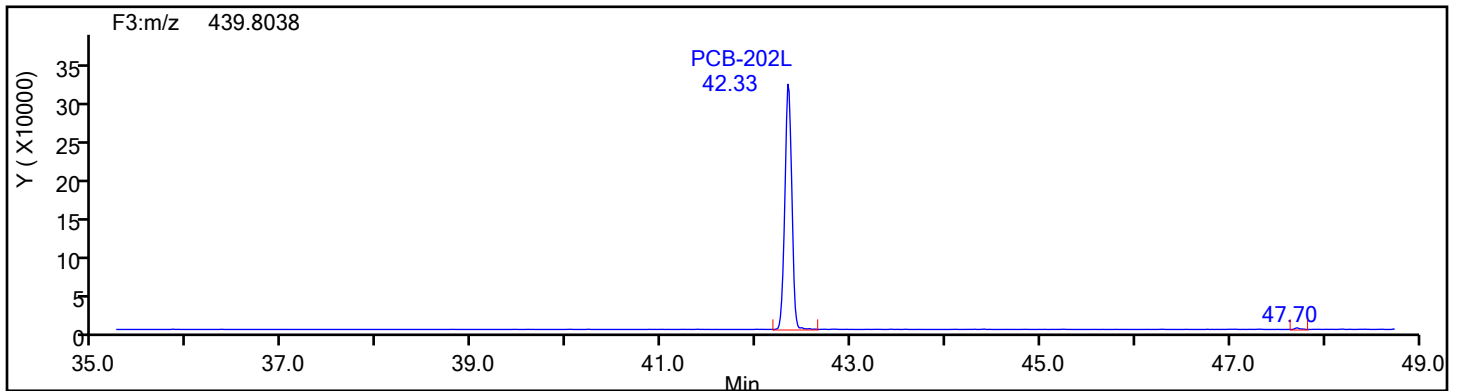
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

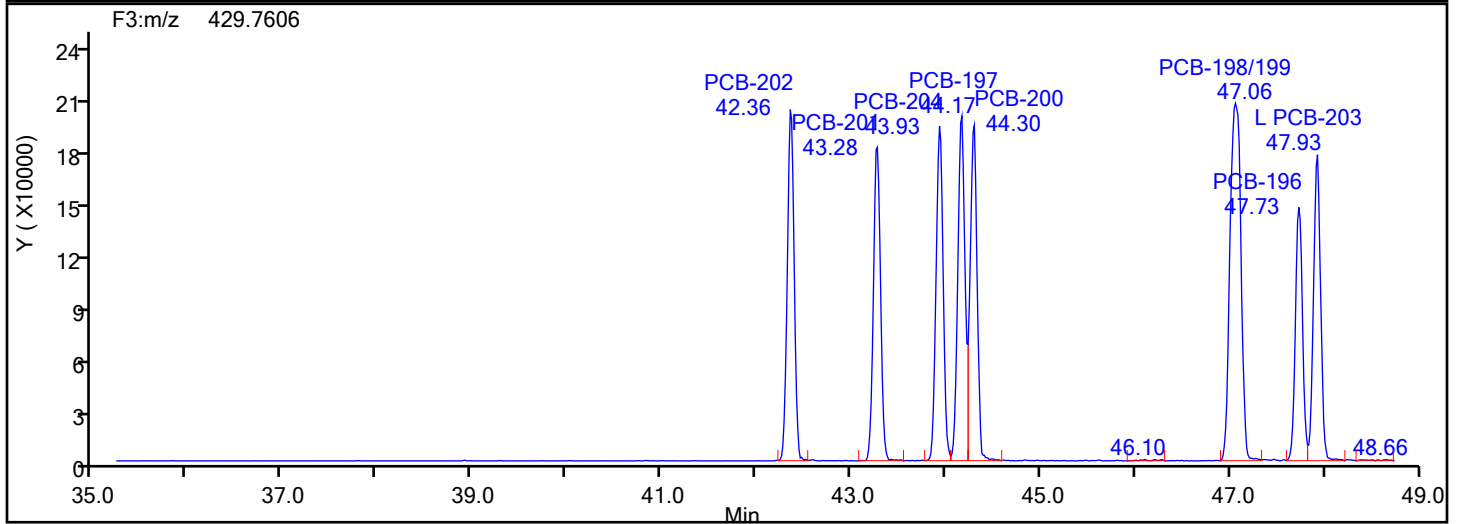
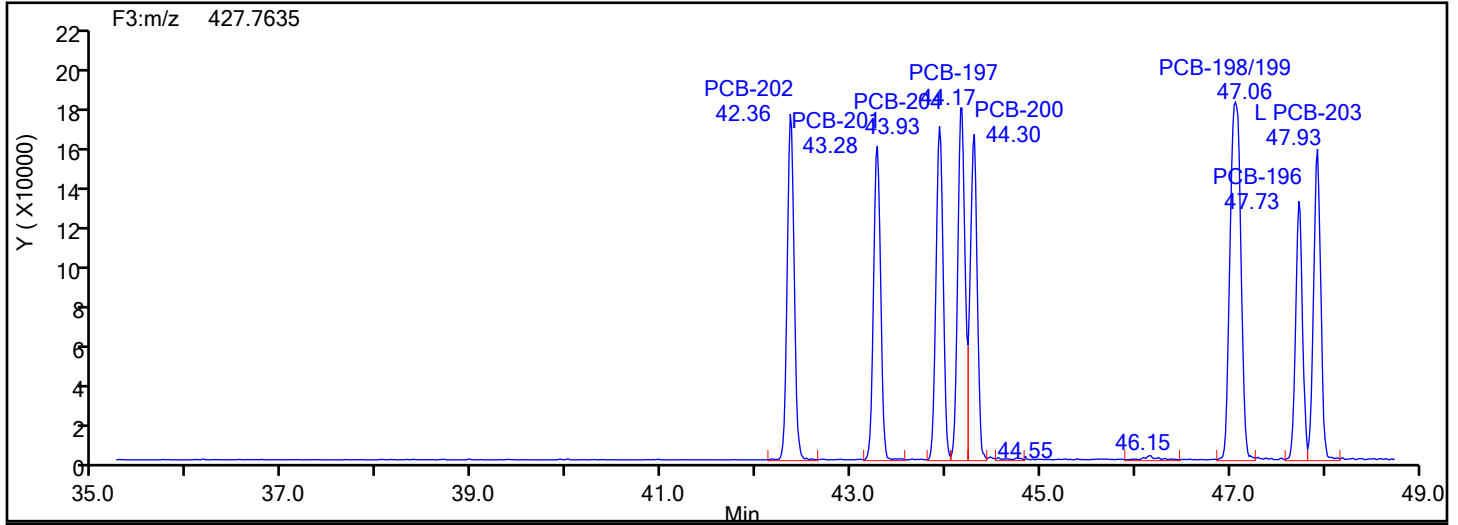


OcPCB F3 Standards

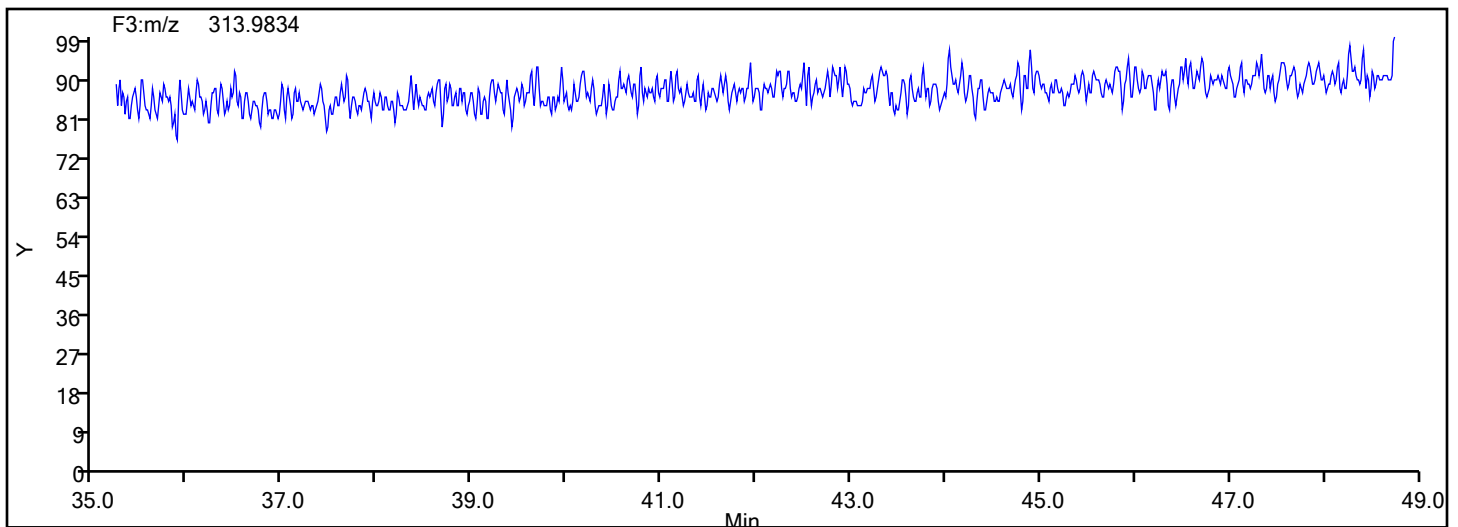


Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

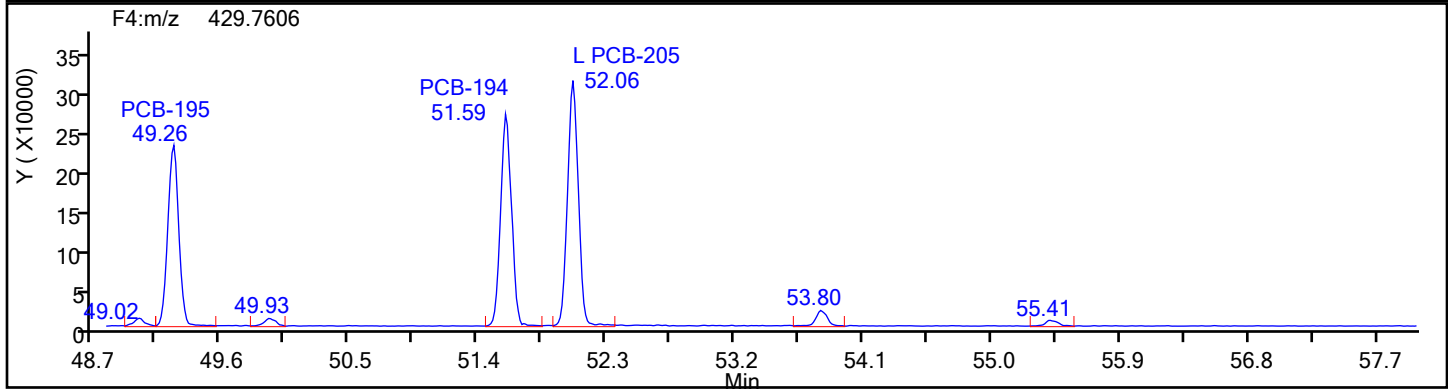
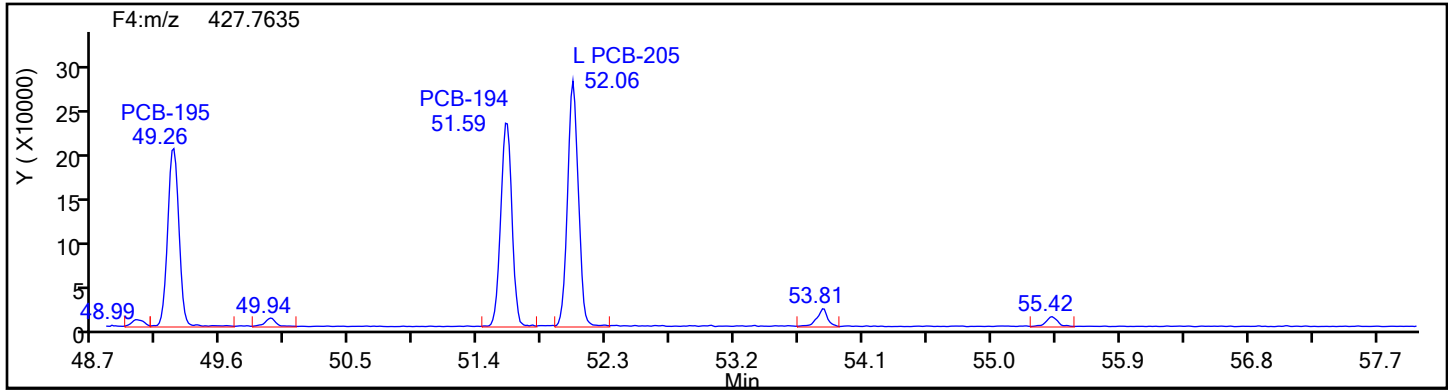
Worklist#: 88747

Sample Line#: 1

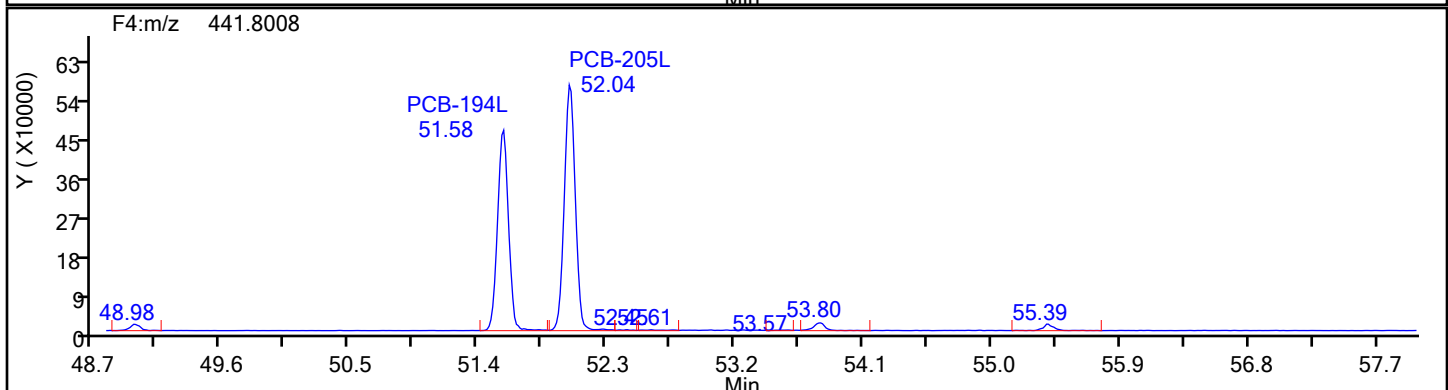
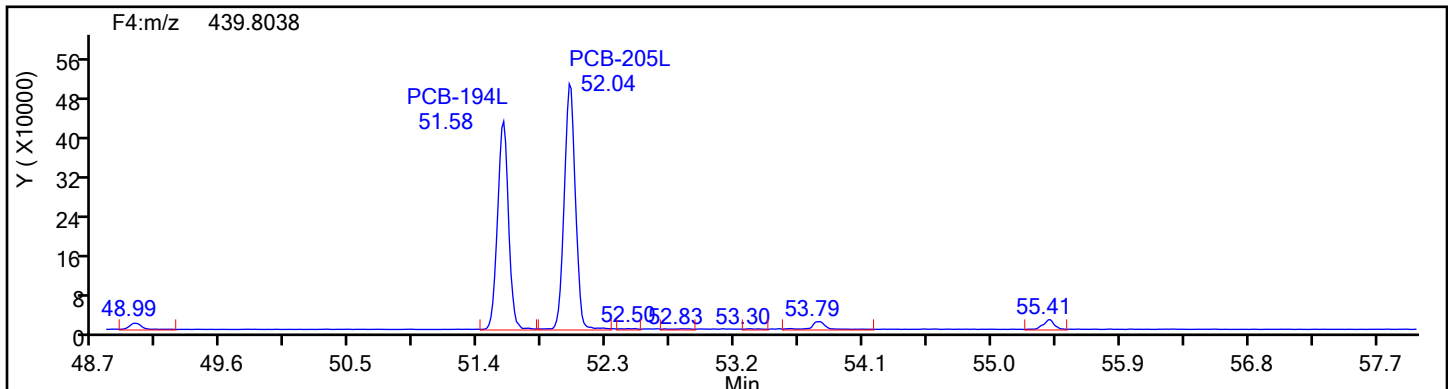
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

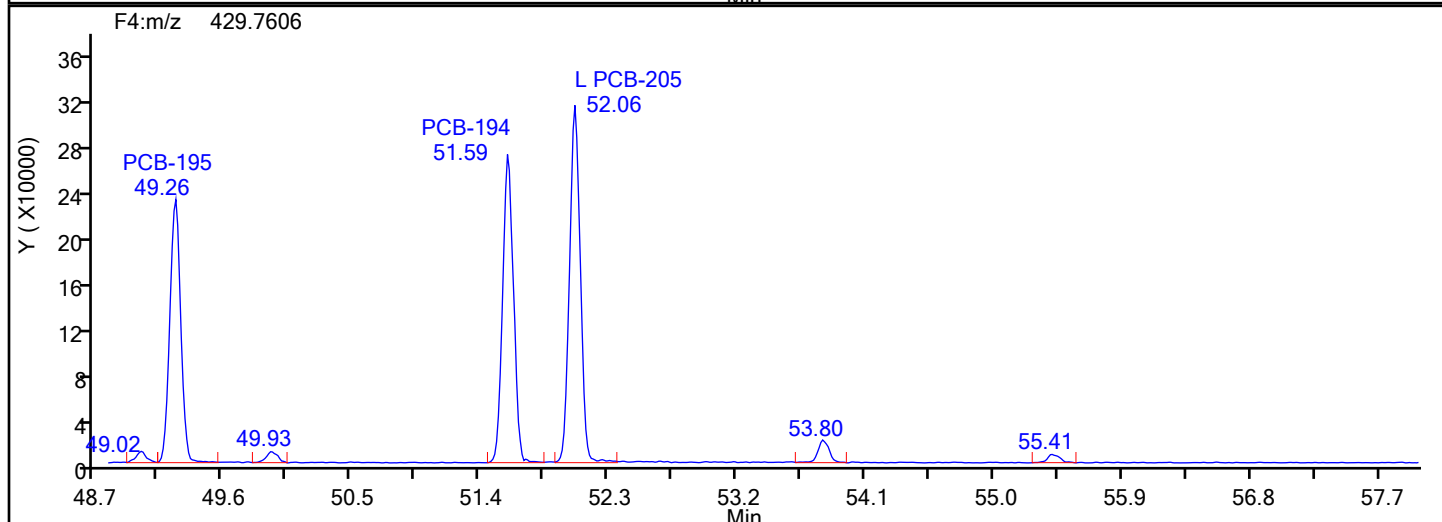
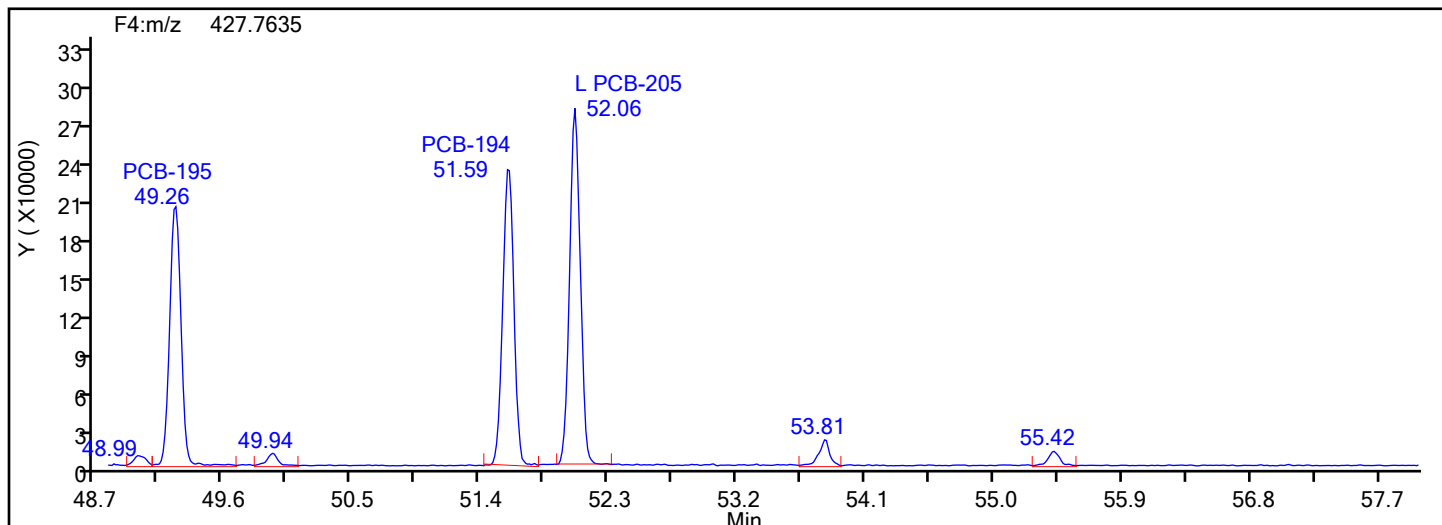
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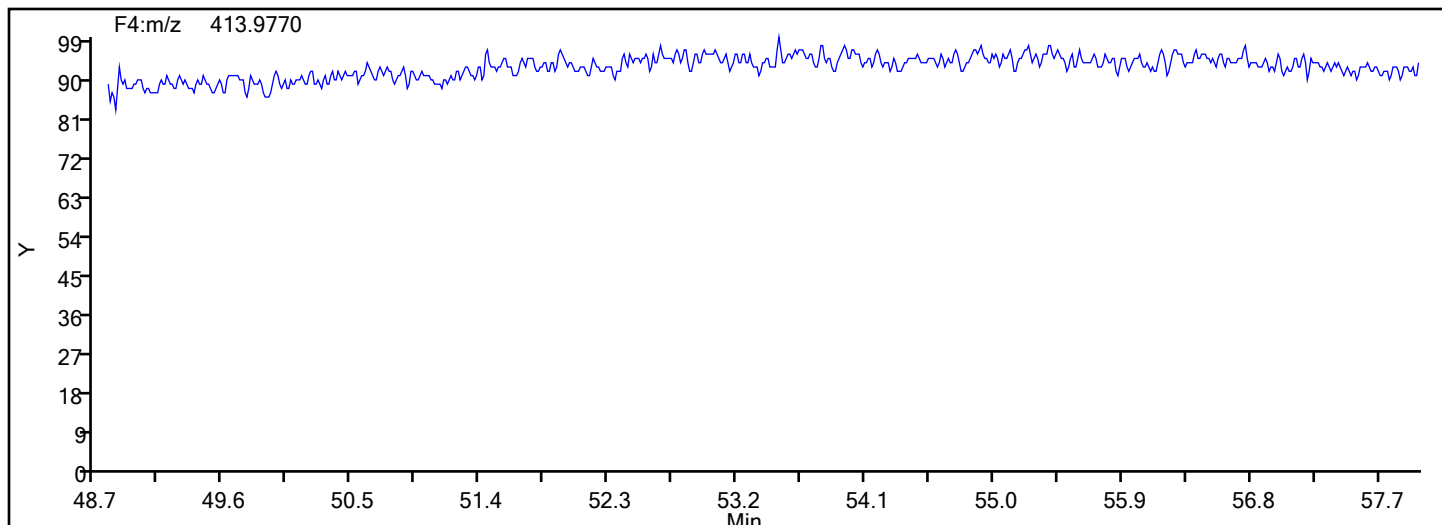
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

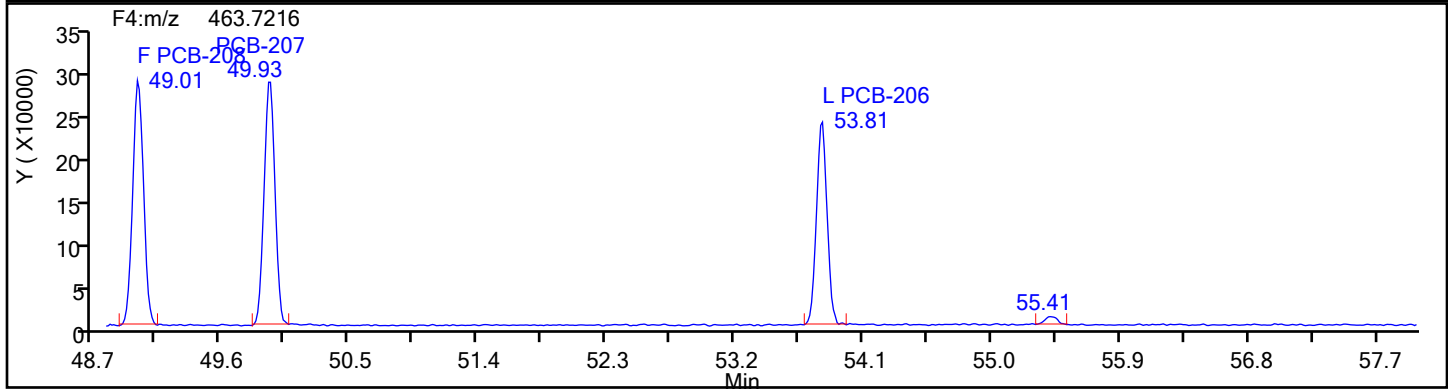
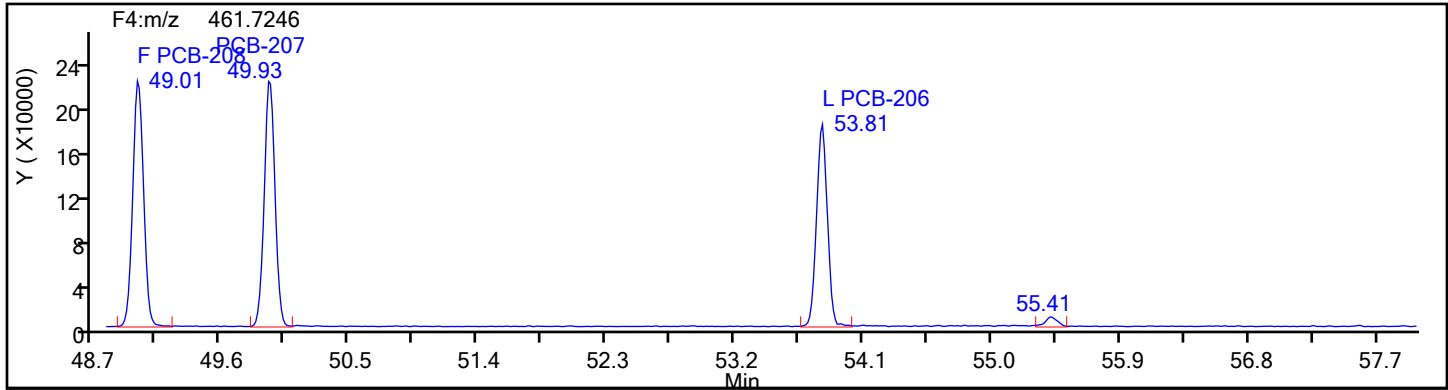


OcPCB F4 Lock Mass

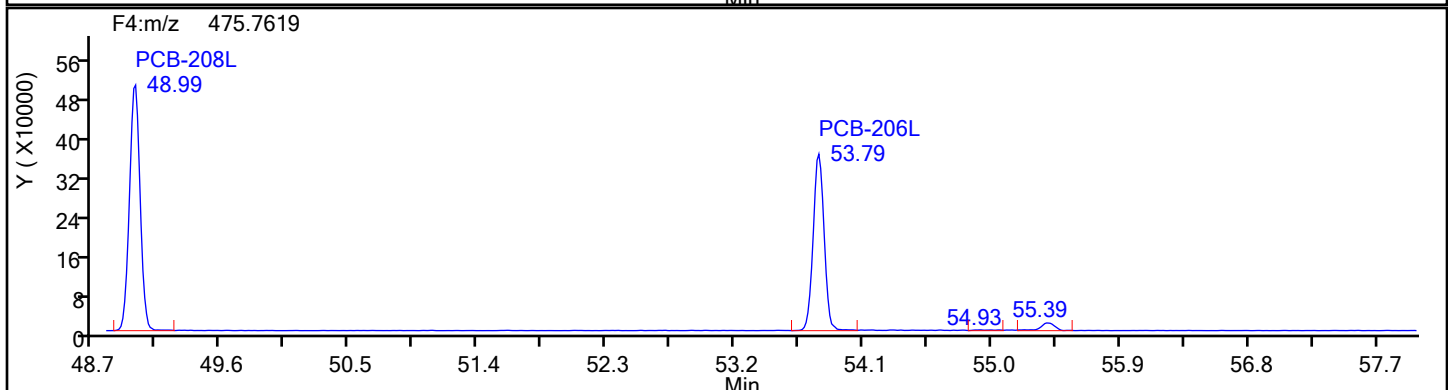
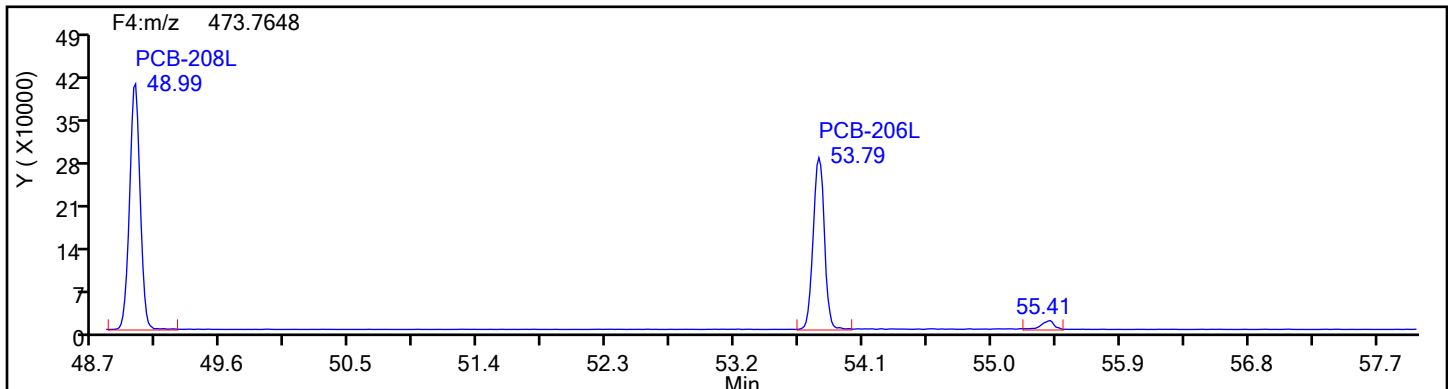


Eurofins Knoxville

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Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

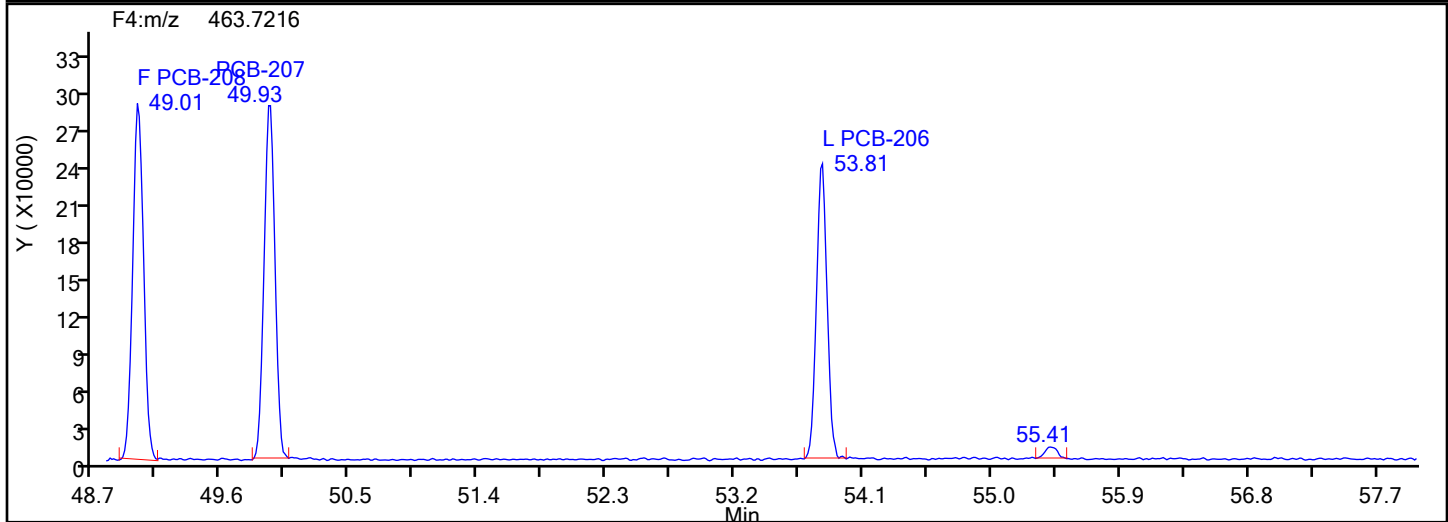
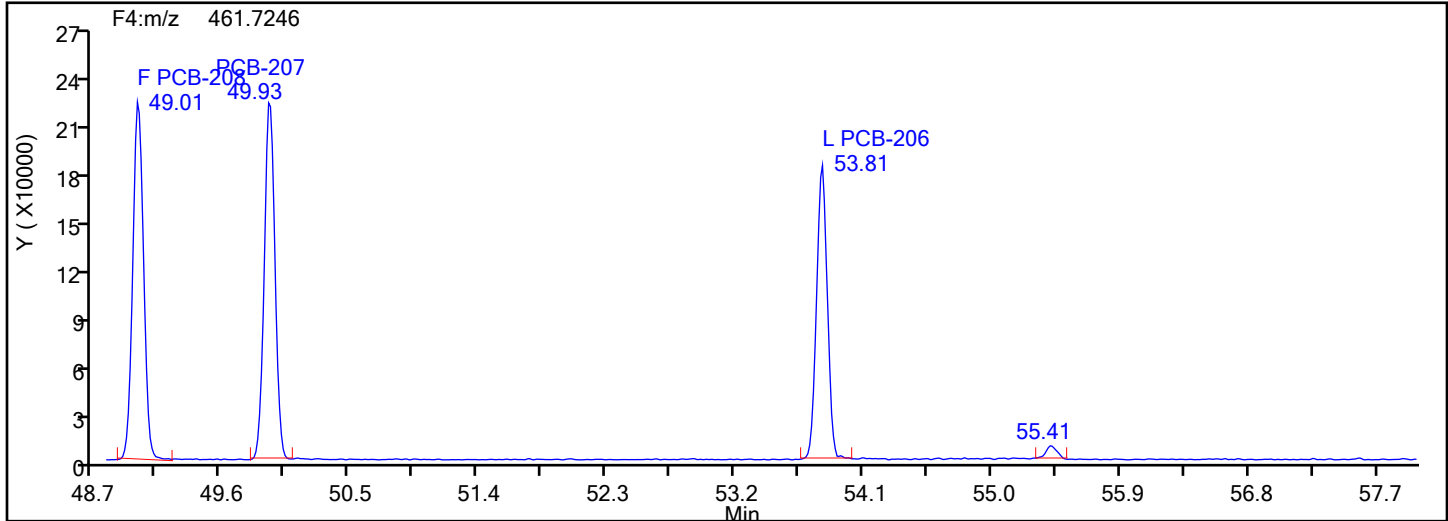
Worklist#: 88747

Sample Line#: 1

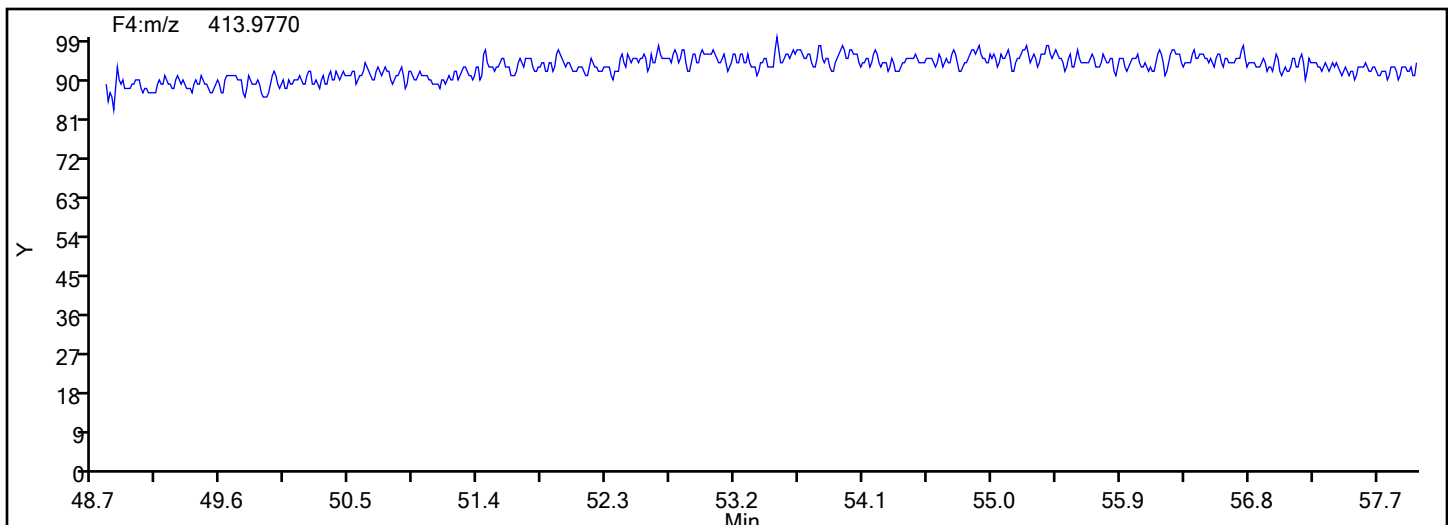
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

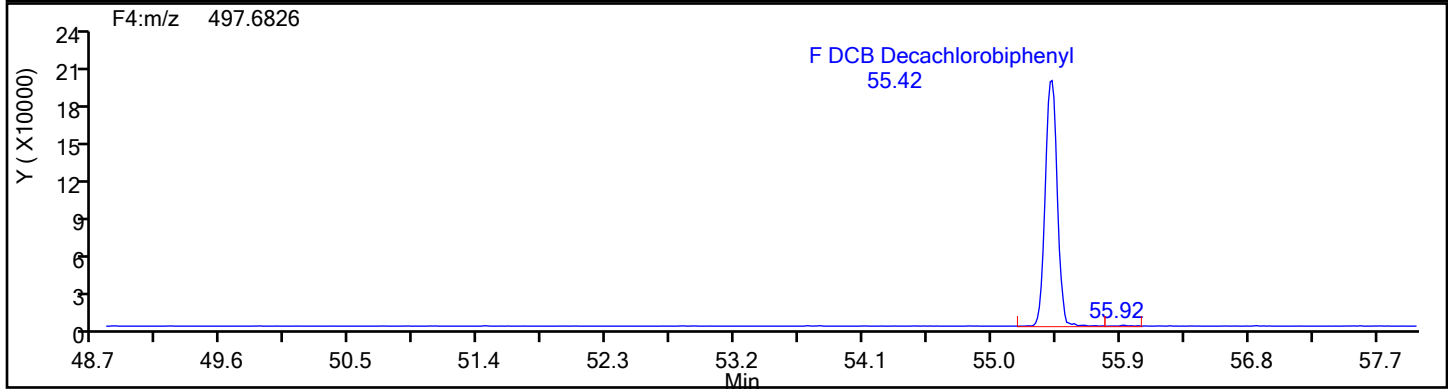
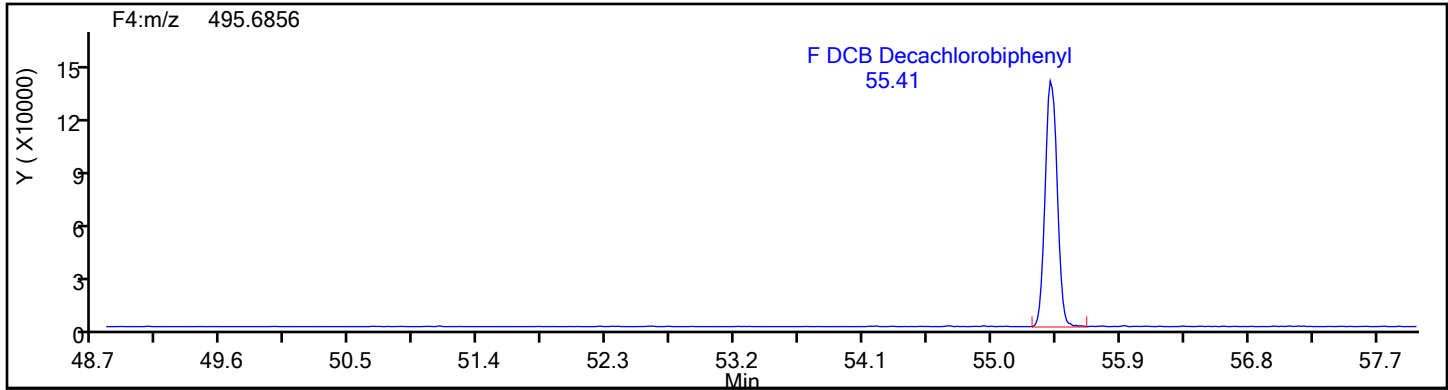


NoPCB F4 Lock Mass

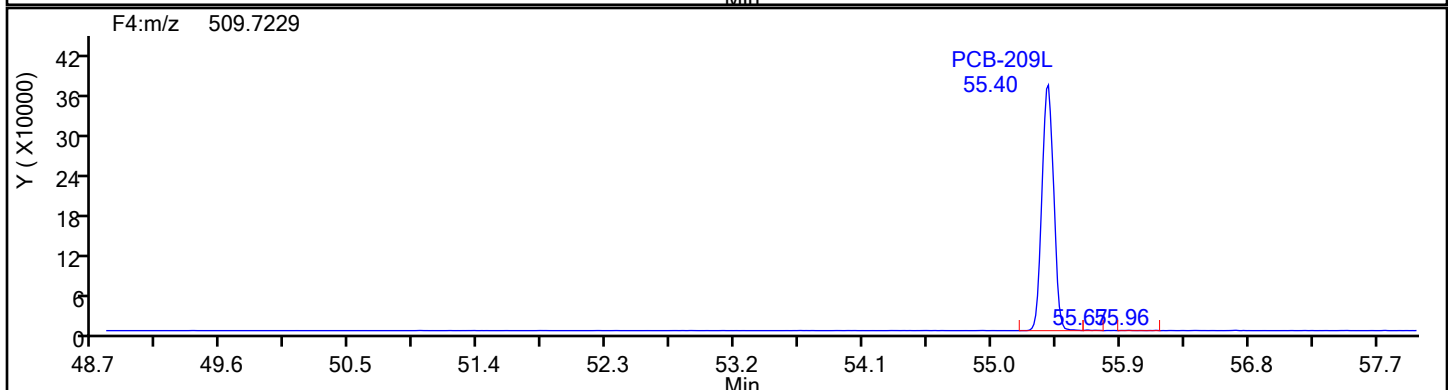
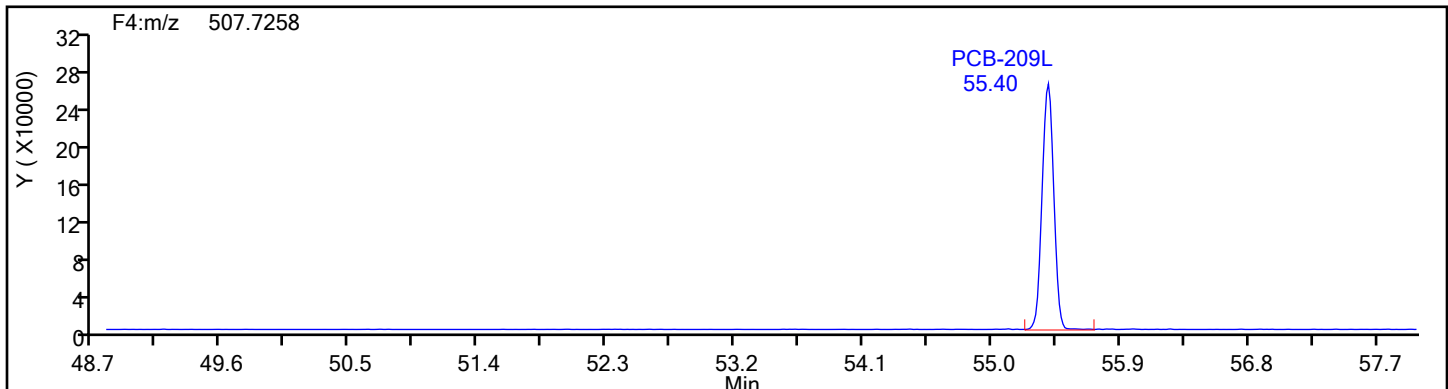


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d
Injection Date: 15-Jul-2024 12:43:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\d2240715c1a.d

Injection Date: 15-Jul-2024 12:43:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

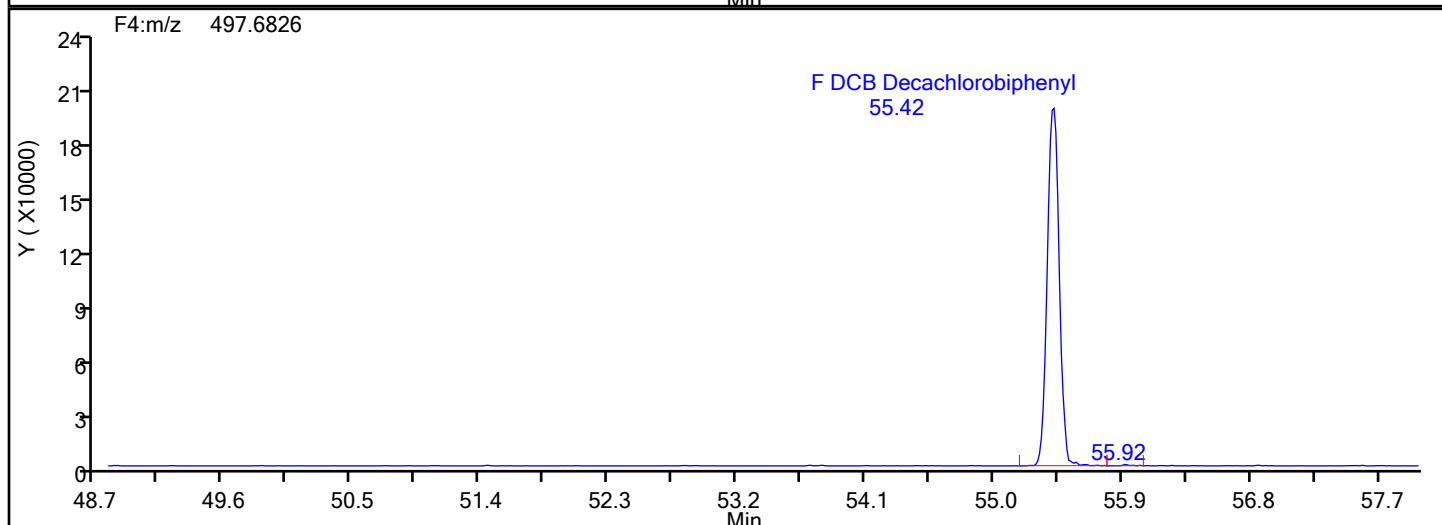
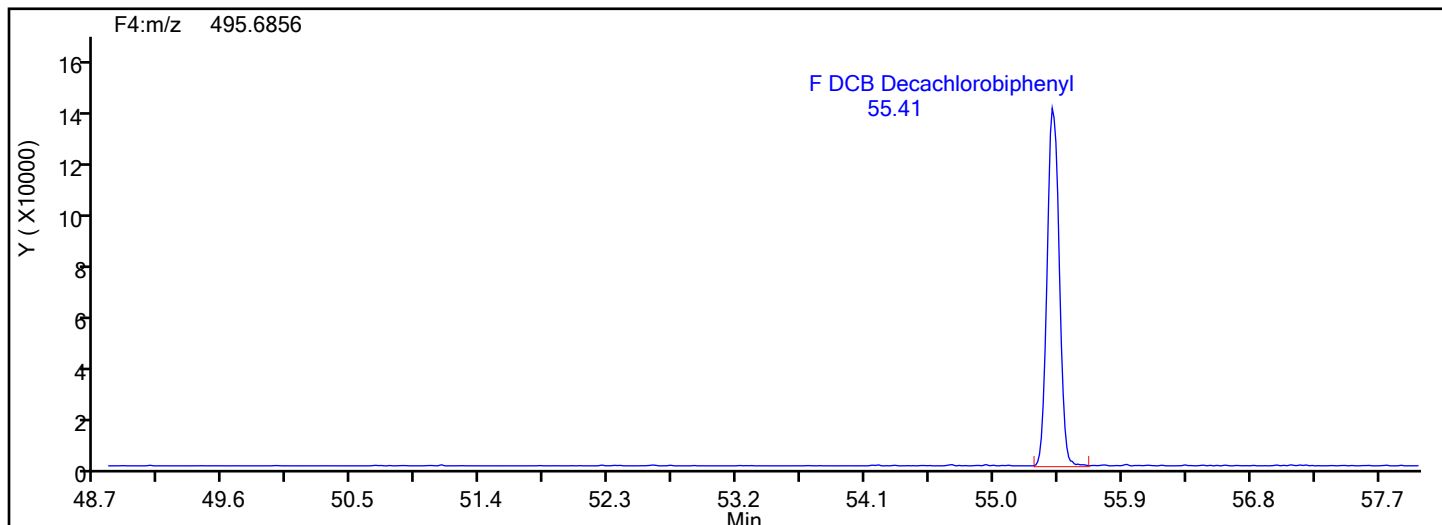
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Sample Line#: 1

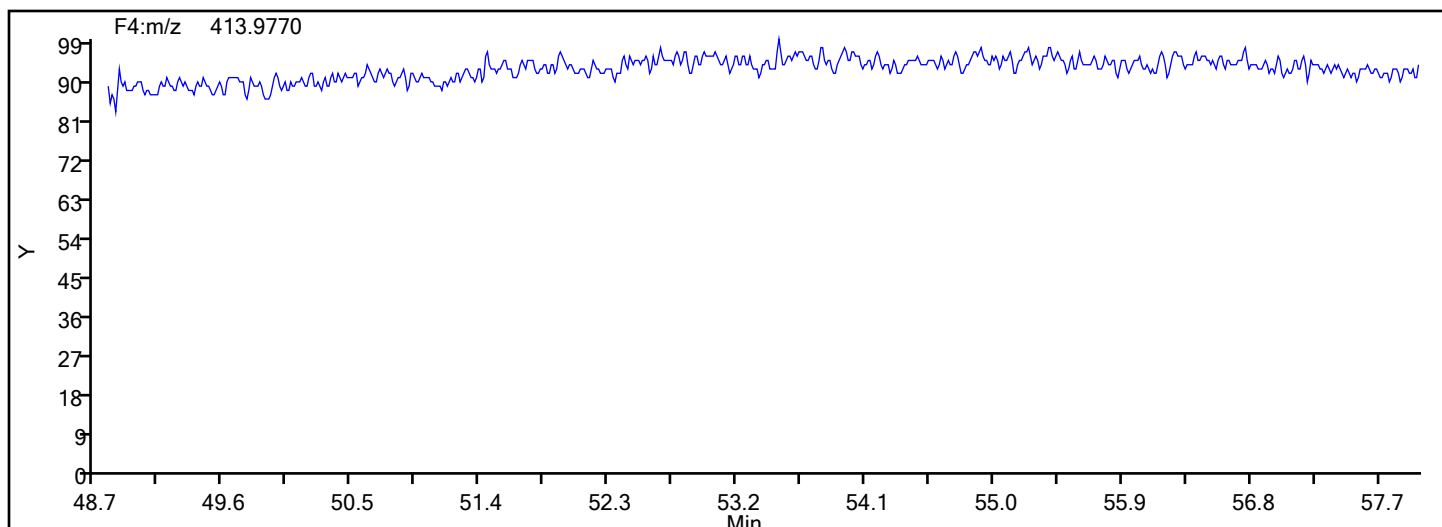
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.231		50.5	50.0	1.0	25.0
PCB-2	AveID	1.181	1.179		49.9	50.0	-0.1	25.0
PCB-3	AveID	1.221	1.245		51.0	50.0	2.0	25.0
PCB-4	AveID	1.282	1.296		50.6	50.0	1.1	25.0
PCB-10	AveID	1.315	1.412		53.7	50.0	7.4	25.0
PCB-9	AveID	1.422	1.480		52.0	50.0	4.1	25.0
PCB-7	AveID	1.413	1.458		51.6	50.0	3.2	25.0
PCB-6	AveID	1.542	1.608		52.2	50.0	4.3	25.0
PCB-5	AveID	1.339	1.369		51.1	50.0	2.2	25.0
PCB-8	AveID	1.589	1.712		53.9	50.0	7.8	25.0
PCB-19	AveID	1.281	1.277		49.9	50.0	-0.3	25.0
PCB-14	AveID	1.402	1.438		51.3	50.0	2.5	25.0
PCB-18	AveID	1.765	1.737		98.4	100	-1.6	25.0
PCB-18/30	AveID	1.765	1.737		98.4	100	-1.6	25.0
PCB-30	AveID	1.765	1.737		98.4	100	-1.6	25.0
PCB-11	AveID	1.295	1.362		52.6	50.0	5.1	25.0
PCB-17	AveID	1.243	1.232		49.6	50.0	-0.9	25.0
PCB-12	AveID	1.336	1.363		102	100	2.1	25.0
PCB-12/13	AveID	1.336	1.363		102	100	2.1	25.0
PCB-13	AveID	1.336	1.363		102	100	2.1	25.0
PCB-27	AveID	1.833	1.791		48.9	50.0	-2.3	25.0
PCB-24	AveID	1.678	1.684		50.2	50.0	0.4	25.0
PCB-16	AveID	1.129	1.154		51.2	50.0	2.3	25.0
PCB-15	AveID	1.290	1.310		50.8	50.0	1.5	25.0
PCB-54	AveID	1.273	1.312		51.5	50.0	3.0	25.0
PCB-32	AveID	1.832	1.856		50.7	50.0	1.3	25.0
PCB-34	AveID	1.128	1.163		51.6	50.0	3.2	25.0
PCB-23	AveID	1.081	1.172		54.2	50.0	8.4	25.0
PCB-26	AveID	1.125	1.153		102	100	2.4	25.0
PCB-26/29	AveID	1.125	1.153		102	100	2.4	25.0
PCB-29	AveID	1.125	1.153		102	100	2.4	25.0
PCB-25	AveID	1.273	1.339		52.6	50.0	5.2	25.0
PCB-50	AveID	0.8578	0.7958		92.8	100	-7.2	25.0
PCB-50/53	AveID	0.8578	0.7958		92.8	100	-7.2	25.0
PCB-53	AveID	0.8578	0.7958		92.8	100	-7.2	25.0
PCB-31	AveID	1.153	1.231		53.4	50.0	6.8	25.0
PCB-20	AveID	1.172	1.188		101	100	1.4	25.0
PCB-20/28	AveID	1.172	1.188		101	100	1.4	25.0
PCB-28	AveID	1.172	1.188		101	100	1.4	25.0
PCB-21	AveID	1.075	1.125		105	100	4.7	25.0
PCB-21/33	AveID	1.075	1.125		105	100	4.7	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.125		105	100	4.7	25.0
PCB-45	AveID	0.8264	0.8218		99.4	100	-0.6	25.0
PCB-45/51	AveID	0.8264	0.8218		99.4	100	-0.6	25.0
PCB-51	AveID	0.8264	0.8218		99.4	100	-0.6	25.0
PCB-46	AveID	0.7101	0.6962		49.0	50.0	-2.0	25.0
PCB-22	AveID	1.193	1.257		52.7	50.0	5.4	25.0
PCB-52	AveID	0.9194	0.9141		49.7	50.0	-0.6	25.0
PCB-43	AveID	1.033	1.028		99.5	100	-0.5	25.0
PCB-43/73	AveID	1.033	1.028		99.5	100	-0.5	25.0
PCB-73	AveID	1.033	1.028		99.5	100	-0.5	25.0
PCB-36	AveID	1.107	1.120		50.6	50.0	1.2	25.0
PCB-49	AveID	1.069	1.010		94.5	100	-5.5	25.0
PCB-49/69	AveID	1.069	1.010		94.5	100	-5.5	25.0
PCB-69	AveID	1.069	1.010		94.5	100	-5.5	25.0
PCB-39	AveID	1.158	1.200		51.8	50.0	3.6	25.0
PCB-48	AveID	0.8399	0.8133		48.4	50.0	-3.2	25.0
PCB-104	AveID	1.009	0.9920		49.2	50.0	-1.7	25.0
PCB-44	AveID	0.9731	0.9375		145	150	-3.7	25.0
PCB-44/47/65	AveID	0.9731	0.9375		145	150	-3.7	25.0
PCB-47	AveID	0.9731	0.9375		145	150	-3.7	25.0
PCB-65	AveID	0.9731	0.9375		145	150	-3.7	25.0
PCB-38	AveID	1.084	1.097		50.6	50.0	1.1	25.0
PCB-59	AveID	1.185	1.138		144	150	-4.0	25.0
PCB-59/62/75	AveID	1.185	1.138		144	150	-4.0	25.0
PCB-62	AveID	1.185	1.138		144	150	-4.0	25.0
PCB-75	AveID	1.185	1.138		144	150	-4.0	25.0
PCB-96	AveID	1.094	1.029		47.0	50.0	-5.9	25.0
PCB-42	AveID	0.8097	0.8171		50.5	50.0	0.9	25.0
PCB-35	AveID	1.130	1.186		52.5	50.0	5.0	25.0
PCB-40	AveID	0.8863	0.8434		143	150	-4.8	25.0
PCB-40/41/71	AveID	0.8863	0.8434		143	150	-4.8	25.0
PCB-41	AveID	0.8863	0.8434		143	150	-4.8	25.0
PCB-71	AveID	0.8863	0.8434		143	150	-4.8	25.0
PCB-37	AveID	1.144	1.150		50.3	50.0	0.6	25.0
PCB-64	AveID	1.178	1.123		47.7	50.0	-4.6	25.0
PCB-72	AveID	1.094	1.096		50.1	50.0	0.2	25.0
PCB-103	AveID	0.8741	0.8703		49.8	50.0	-0.4	25.0
PCB-68	AveID	1.253	1.306		52.1	50.0	4.2	25.0
PCB-94	AveID	0.7640	0.7191		47.1	50.0	-5.9	25.0
PCB-57	AveID	1.082	1.088		50.3	50.0	0.6	25.0
PCB-95	AveID	0.8033	0.8033		50.0	50.0	0.0	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.346		50.8	50.0	1.5	25.0
PCB-100	AveID	0.8429	0.7961		94.5	100	-5.5	25.0
PCB-93	AveID	0.8429	0.7961		94.5	100	-5.5	25.0
PCB-93/100	AveID	0.8429	0.7961		94.5	100	-5.5	25.0
PCB-67	AveID	1.423	1.366		48.0	50.0	-4.0	25.0
PCB-102	AveID	0.8262	0.8170		98.9	100	-1.1	25.0
PCB-98	AveID	0.8262	0.8170		98.9	100	-1.1	25.0
PCB-98/102	AveID	0.8262	0.8170		98.9	100	-1.1	25.0
PCB-63	AveID	1.124	1.107		49.3	50.0	-1.5	25.0
PCB-88	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-88/91	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-91	AveID	0.8013	0.7885		98.4	100	-1.6	25.0
PCB-61	AveID	1.261	1.220		194	200	-3.2	25.0
PCB-61/70/74/76	AveID	1.261	1.220		194	200	-3.2	25.0
PCB-70	AveID	1.261	1.220		194	200	-3.2	25.0
PCB-74	AveID	1.261	1.220		194	200	-3.2	25.0
PCB-76	AveID	1.261	1.220		194	200	-3.2	25.0
PCB-84	AveID	0.7299	0.7124		48.8	50.0	-2.4	25.0
PCB-66	AveID	1.258	1.307		52.0	50.0	3.9	25.0
PCB-55	AveID	1.324	1.351		51.1	50.0	2.1	25.0
PCB-89	AveID	0.7798	0.7319		46.9	50.0	-6.1	25.0
PCB-56	AveID	1.233	1.214		49.2	50.0	-1.6	25.0
PCB-121	AveID	1.296	1.265		48.8	50.0	-2.5	25.0
PCB-60	AveID	1.123	1.061		47.2	50.0	-5.5	25.0
PCB-92	AveID	0.8546	0.8395		49.1	50.0	-1.8	25.0
PCB-80	AveID	1.324	1.328		50.1	50.0	0.3	25.0
PCB-155	AveID	0.9444	0.9934		52.6	50.0	5.2	25.0
PCB-101	AveID	0.9550	0.9406		148	150	-1.5	25.0
PCB-113	AveID	0.9550	0.9406		148	150	-1.5	25.0
PCB-152	AveID	0.9895	0.998		50.4	50.0	0.9	25.0
PCB-90	AveID	0.9550	0.9406		148	150	-1.5	25.0
PCB-90/101/113	AveID	0.9550	0.9406		148	150	-1.5	25.0
PCB-150	AveID	1.013	1.055		52.1	50.0	4.2	25.0
PCB-136	AveID	1.012	1.056		52.2	50.0	4.4	25.0
PCB-83	AveID	0.8385	0.8188		97.7	100	-2.3	25.0
PCB-83/99	AveID	0.8385	0.8188		97.7	100	-2.3	25.0
PCB-99	AveID	0.8385	0.8188		97.7	100	-2.3	25.0
PCB-112	AveID	1.411	1.354		48.0	50.0	-4.0	25.0
PCB-145	AveID	0.9685	0.999		51.6	50.0	3.2	25.0
PCB-109	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-119	AveID	1.047	0.995		285	300	-5.0	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-86	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-86/87/97/109/119/125	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-87	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-97	AveID	1.047	0.995		285	300	-5.0	25.0
PCB-79	AveID	1.437	1.339		46.6	50.0	-6.8	25.0
PCB-78	AveID	1.162	1.188		51.1	50.0	2.3	25.0
PCB-116	AveID	1.041	1.010		146	150	-3.0	25.0
PCB-117	AveID	1.041	1.010		146	150	-3.0	25.0
PCB-85	AveID	1.041	1.010		146	150	-3.0	25.0
PCB-85/116/117	AveID	1.041	1.010		146	150	-3.0	25.0
PCB-110	AveID	1.192	1.164		97.7	100	-2.3	25.0
PCB-110/115	AveID	1.192	1.164		97.7	100	-2.3	25.0
PCB-115	AveID	1.192	1.164		97.7	100	-2.3	25.0
PCB-81	AveID	1.080	1.012		46.8	50.0	-6.3	25.0
PCB-148	AveID	0.7603	0.7803		51.3	50.0	2.6	25.0
PCB-82	AveID	0.8303	0.8198		49.4	50.0	-1.3	25.0
PCB-111	AveID	1.213	1.174		48.4	50.0	-3.2	25.0
PCB-77	AveID	1.084	1.052		48.5	50.0	-3.0	25.0
PCB-135	AveID	0.7256	0.7682		106	100	5.9	25.0
PCB-135/151	AveID	0.7256	0.7682		106	100	5.9	25.0
PCB-151	AveID	0.7256	0.7682		106	100	5.9	25.0
PCB-120	AveID	1.476	1.420		48.1	50.0	-3.8	25.0
PCB-154	AveID	0.8129	0.8586		52.8	50.0	5.6	25.0
PCB-144	AveID	0.7852	0.8088		51.5	50.0	3.0	25.0
PCB-147	AveID	0.8950	0.8544		95.5	100	-4.5	25.0
PCB-147/149	AveID	0.8950	0.8544		95.5	100	-4.5	25.0
PCB-149	AveID	0.8950	0.8544		95.5	100	-4.5	25.0
PCB-134	AveID	0.7967	0.7576		95.1	100	-4.9	25.0
PCB-134/143	AveID	0.7967	0.7576		95.1	100	-4.9	25.0
PCB-143	AveID	0.7967	0.7576		95.1	100	-4.9	25.0
PCB-108	AveID	1.141	1.066		93.5	100	-6.5	25.0
PCB-108/124	AveID	1.141	1.066		93.5	100	-6.5	25.0
PCB-124	AveID	1.141	1.066		93.5	100	-6.5	25.0
PCB-139	AveID	0.8769	0.8199		93.5	100	-6.5	25.0
PCB-139/140	AveID	0.8769	0.8199		93.5	100	-6.5	25.0
PCB-140	AveID	0.8769	0.8199		93.5	100	-6.5	25.0
PCB-107	AveID	1.212	1.216		50.2	50.0	0.3	25.0
PCB-131	AveID	0.7503	0.7111		47.4	50.0	-5.2	25.0
PCB-123	AveID	1.072	1.018		47.5	50.0	-5.1	25.0
PCB-106	AveID	1.084	1.111		51.3	50.0	2.5	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7411		49.4	50.0	-1.3	25.0
PCB-118	AveID	1.206	1.191		49.4	50.0	-1.2	25.0
PCB-132	AveID	0.7489	0.7005		46.8	50.0	-6.5	25.0
PCB-122	AveID	0.9567	0.9575		50.0	50.0	0.0	25.0
PCB-188	AveID	1.135	1.148		50.6	50.0	1.1	25.0
PCB-114	AveID	1.084	1.089		50.2	50.0	0.5	25.0
PCB-133	AveID	0.8096	0.7338		45.3	50.0	-9.4	25.0
PCB-179	AveID	1.428	1.419		49.7	50.0	-0.6	25.0
PCB-165	AveID	1.025	1.001		48.8	50.0	-2.3	25.0
PCB-105	AveID	1.188	1.201		50.6	50.0	1.1	25.0
PCB-146	AveID	0.9637	0.9154		47.5	50.0	-5.0	25.0
PCB-184	AveID	1.367	1.349		49.4	50.0	-1.3	25.0
PCB-161	AveID	1.129	1.065		47.2	50.0	-5.6	25.0
PCB-176	AveID	1.233	1.246		50.5	50.0	1.1	25.0
PCB-153	AveID	1.094	1.066		97.4	100	-2.6	25.0
PCB-153/168	AveID	1.094	1.066		97.4	100	-2.6	25.0
PCB-168	AveID	1.094	1.066		97.4	100	-2.6	25.0
PCB-141	AveID	0.8755	0.8426		48.1	50.0	-3.8	25.0
PCB-186	AveID	1.474	1.553		52.7	50.0	5.4	25.0
PCB-130	AveID	0.7051	0.6689		47.4	50.0	-5.1	25.0
PCB-127	AveID	1.139	1.165		51.1	50.0	2.2	25.0
PCB-137	AveID	0.7767	0.7603		49.0	50.0	-2.1	25.0
PCB-164	AveID	1.038	1.037		49.9	50.0	-0.1	25.0
PCB-129	AveID	0.9464	0.9120		193	200	-3.6	25.0
PCB-129/138/160/163	AveID	0.9464	0.9120		193	200	-3.6	25.0
PCB-138	AveID	0.9464	0.9120		193	200	-3.6	25.0
PCB-160	AveID	0.9464	0.9120		193	200	-3.6	25.0
PCB-163	AveID	0.9464	0.9120		193	200	-3.6	25.0
PCB-158	AveID	1.311	1.234		47.1	50.0	-5.9	25.0
PCB-178	AveID	0.8946	0.8889		49.7	50.0	-0.6	25.0
PCB-175	AveID	0.9524	0.9386		49.3	50.0	-1.4	25.0
PCB-126	AveID	1.098	1.125		51.2	50.0	2.5	25.0
PCB-128	AveID	0.9829	0.9403		95.7	100	-4.3	25.0
PCB-128/166	AveID	0.9829	0.9403		95.7	100	-4.3	25.0
PCB-166	AveID	0.9829	0.9403		95.7	100	-4.3	25.0
PCB-187	AveID	1.102	1.117		50.7	50.0	1.4	25.0
PCB-182	AveID	0.9247	0.9713		52.5	50.0	5.0	25.0
PCB-183	AveID	0.9825	0.9456		96.2	100	-3.8	25.0
PCB-183/185	AveID	0.9825	0.9456		96.2	100	-3.8	25.0
PCB-185	AveID	0.9825	0.9456		96.2	100	-3.8	25.0
PCB-174	AveID	0.9642	0.9799		50.8	50.0	1.6	25.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.337		48.2	50.0	-3.5	25.0
PCB-162	AveID	1.257	1.210		48.1	50.0	-3.8	25.0
PCB-177	AveID	0.9773	0.9716		49.7	50.0	-0.6	25.0
PCB-202	AveID	1.036	1.046		50.5	50.0	1.0	25.0
PCB-167	AveID	1.116	1.121		50.3	50.0	0.5	25.0
PCB-181	AveID	0.9505	0.9699		51.0	50.0	2.0	25.0
PCB-171	AveID	0.9336	0.9006		96.5	100	-3.5	25.0
PCB-171/173	AveID	0.9336	0.9006		96.5	100	-3.5	25.0
PCB-173	AveID	0.9336	0.9006		96.5	100	-3.5	25.0
PCB-201	AveID	0.9754	1.017		52.1	50.0	4.3	25.0
PCB-156	AveID	1.110	1.130		102	100	1.8	25.0
PCB-156/157	AveID	1.110	1.130		102	100	1.8	25.0
PCB-157	AveID	1.110	1.130		102	100	1.8	25.0
PCB-204	AveID	1.049	1.087		51.8	50.0	3.6	25.0
PCB-197	AveID	1.146	1.151		50.2	50.0	0.5	25.0
PCB-200	AveID	1.007	1.078		53.5	50.0	7.1	25.0
PCB-172	AveID	0.8519	0.8672		50.9	50.0	1.8	25.0
PCB-192	AveID	1.346	1.481		55.0	50.0	10.0	25.0
PCB-180	AveID	1.168	1.214		104	100	4.0	25.0
PCB-180/193	AveID	1.168	1.214		104	100	4.0	25.0
PCB-193	AveID	1.168	1.214		104	100	4.0	25.0
PCB-191	AveID	1.289	1.431		55.5	50.0	11.0	25.0
PCB-170	AveID	1.187	1.157		48.8	50.0	-2.4	25.0
PCB-190	AveID	1.332	1.599		60.0	50.0	20.0	25.0
PCB-169	AveID	1.163	1.147		49.3	50.0	-1.4	25.0
PCB-198	AveID	0.8698	0.9267		107	100	6.5	25.0
PCB-198/199	AveID	0.8698	0.9267		107	100	6.5	25.0
PCB-199	AveID	0.8698	0.9267		107	100	6.5	25.0
PCB-196	AveID	0.7806	0.8479		54.3	50.0	8.6	25.0
PCB-203	AveID	0.9292	1.058		56.9	50.0	13.8	25.0
PCB-208	AveID	1.137	1.109		48.8	50.0	-2.5	25.0
PCB-195	AveID	0.8263	0.8035		48.6	50.0	-2.8	25.0
PCB-189	AveID	0.9633	1.002		52.0	50.0	4.0	25.0
PCB-207	AveID	1.376	1.304		47.4	50.0	-5.2	25.0
PCB-194	AveID	0.9735	0.9368		48.1	50.0	-3.8	25.0
PCB-205	AveID	1.088	1.082		49.7	50.0	-0.5	25.0
PCB-206	AveID	1.335	1.247		46.7	50.0	-6.5	25.0
PCB-209	AveID	1.100	1.123		51.0	50.0	2.1	25.0
PCB-1L	Ave	1.611	1.656		103	100	2.8	30.0
PCB-3L	Ave	1.589	1.580		99.5	100	-0.5	30.0
PCB-4L	Ave	0.6475	0.6460		99.8	100	-0.2	30.0

FORM VII
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Lab Sample ID: WDMCCV 140-88780/1 Calibration Date: 07/16/2024 00:00
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13
Lab File ID: d2240715c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6264		99.7	100	-0.3	30.0
PCB-15L	Ave	1.079	1.030		95.5	100	-4.5	30.0
PCB-54L	Ave	0.5562	0.6172		111	100	11.0	30.0
PCB-104L	Ave	1.216	1.293		106	100	6.3	30.0
PCB-37L	Ave	0.8749	0.8689		99.3	100	-0.7	30.0
PCB-155L	Ave	1.085	1.094		101	100	0.8	30.0
PCB-81L	Ave	1.247	1.229		98.5	100	-1.5	30.0
PCB-77L	Ave	1.321	1.290		97.6	100	-2.4	30.0
PCB-123L	Ave	0.9731	0.9762		100	100	0.3	30.0
PCB-118L	Ave	1.010	1.025		101	100	1.4	30.0
PCB-188L	Ave	1.313	1.273		96.9	100	-3.1	30.0
PCB-114L	Ave	0.9949	1.012		102	100	1.7	30.0
PCB-105L	Ave	0.9514	0.996		105	100	4.7	30.0
PCB-126L	Ave	0.9439	0.9612		102	100	1.8	30.0
PCB-202L	Ave	0.9818	0.9562		97.4	100	-2.6	30.0
PCB-167L	Ave	1.257	1.271		101	100	1.1	30.0
PCB-156L	Ave	1.211	1.253		207	200	3.5	30.0
PCB-156L/157L	Ave	1.211	1.253		207	200	3.5	30.0
PCB-157L	Ave	1.211	1.253		207	200	3.5	30.0
PCB-170L	Ave	0.8362	0.8809		105	100	5.3	30.0
PCB-169L	Ave	1.244	1.356		109	100	9.0	30.0
PCB-208L	Ave	0.9576	0.9684		101	100	1.1	30.0
PCB-189L	Ave	1.441	1.482		103	100	2.8	30.0
PCB-205L	Ave	1.179	1.226		104	100	4.0	30.0
PCB-206L	Ave	0.6947	0.7418		107	100	6.8	30.0
PCB-209L	Ave	0.6669	0.7999		120	100	19.9	30.0
PCB-8L	AveID	1.207	1.148		47.6	50.0	-4.8	25.0
PCB-28L	Ave	1.049	1.013		48.2	50.0	-3.5	30.0
PCB-95L	AveID	0.7218	0.6918		47.9	50.0	-4.2	25.0
PCB-79L	AveID	1.002	0.9892		49.4	50.0	-1.3	25.0
PCB-111L	Ave	1.370	1.285		46.9	50.0	-6.2	30.0
PCB-153L	AveID	0.9169	0.8205		44.7	50.0	-10.5	25.0
PCB-178L	Ave	1.031	0.9244		44.8	50.0	-10.4	30.0

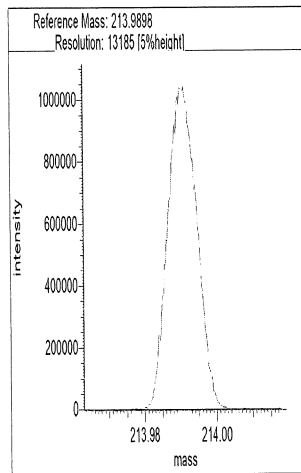
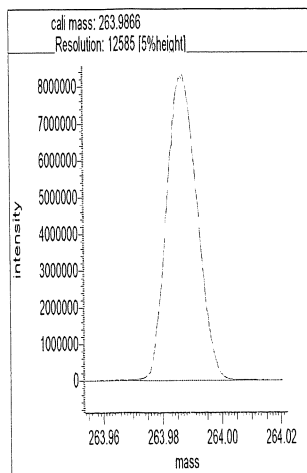
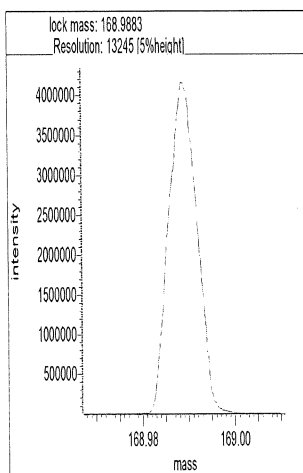
Resolution Check Report (DFS SN: 3190)

Date: 15 Jul 2024 23:40
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

d2240715r4

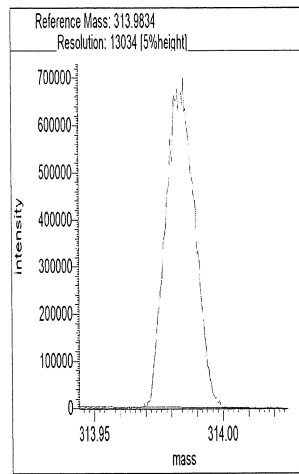
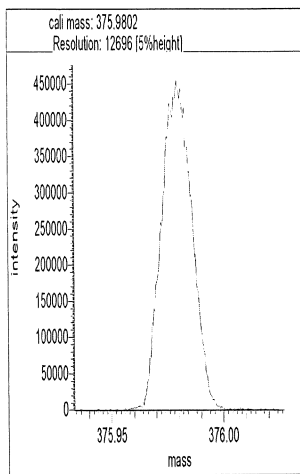
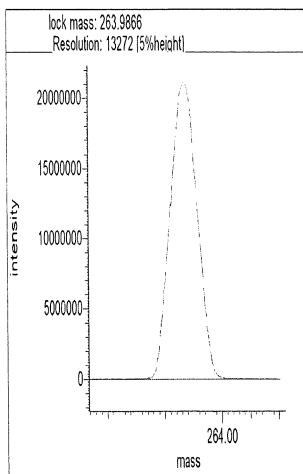
Segment 1

Lock mass 168.9883 [m/z] Resolution: 13245 [5%height]
Cali. mass 263.9866 [m/z] Resolution: 12585 [5%height]
Ref. mass 213.9898 [m/z] Resolution: 13185 [5%height]



Segment 2

Lock mass 263.9866 [m/z] Resolution: 13272 [5%height]
Cali. mass 375.9802 [m/z] Resolution: 12696 [5%height]
Ref. mass 313.9834 [m/z] Resolution: 13034 [5%height]

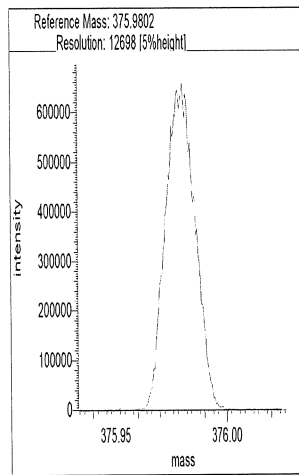
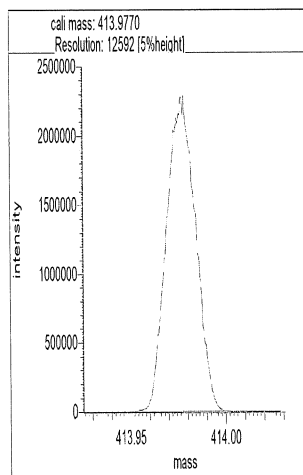
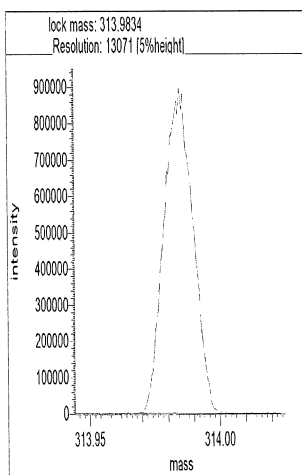


Segment 3

Lock mass 313.9834 [m/z] Resolution: 13071 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 12592 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 12698 [5%height]

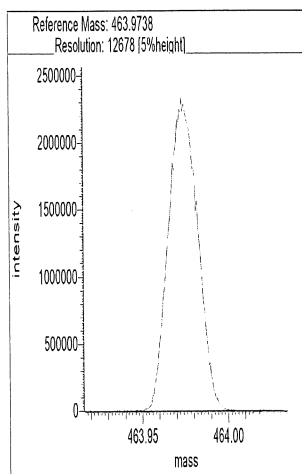
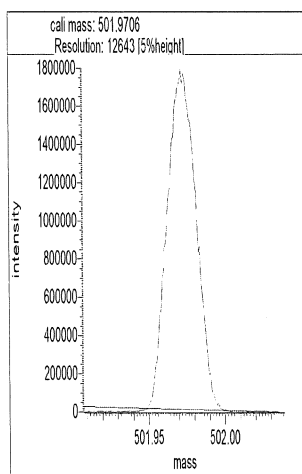
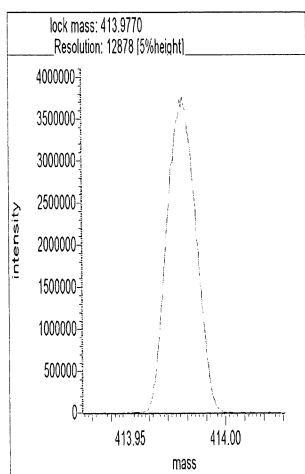


Segment 4

Lock mass 413.9770 [m/z] Resolution: 12878 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12643 [5%height]


Ref. mass 463.9738 [m/z] Resolution: 12678 [5%height]



Reports

23:48:40: Peak matching procedure started
23:48:40:
23:48:41: Reference mass: 168.98827
23:48:41: Sample mass: 214.0
23:48:42:
23:48:42: Finding reference mass
23:48:43: Finding sample mass
23:48:44:
23:48:50: [1] 213.9905 amu, mean: 213.9905
23:48:53: [2] 213.9905 amu, mean: 213.9905 SD: 0.00 mmu or: 0.00 ppm
23:48:56: [3] 213.9905 amu, mean: 213.9905 SD: 0.03 mmu or: 0.14 ppm
23:48:59: [4] 213.9904 amu, mean: 213.9905 SD: 0.04 mmu or: 0.20 ppm
23:49:00:
23:49:00: Stop requested. Please wait for procedure to finish.
23:49:00:
23:49:03:
23:49:03: Peakmatching stopped


Signature

 7-15-24

Reports

23:49:27: Peak matching procedure started
23:49:27:
23:49:28: Reference mass: 213.98975
23:49:28: Sample mass: 264.0
23:49:29:
23:49:29: Finding reference mass
23:49:30: Finding sample mass
23:49:31:
23:49:36: [1] 263.9873 amu, mean: 263.9873
23:49:39: [2] 263.9871 amu, mean: 263.9872 SD: 0.14 mmu or: 0.52 ppm
23:49:43: [3] 263.9875 amu, mean: 263.9873 SD: 0.20 mmu or: 0.75 ppm
23:49:46: [4] 263.9872 amu, mean: 263.9873 SD: 0.18 mmu or: 0.67 ppm
23:49:46:
23:49:46: Stop requested. Please wait for procedure to finish.
23:49:46:
23:49:49:
23:49:50: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:10: Peak matching procedure started
23:50:10:
23:50:11: Reference mass: 263.98656
23:50:11: Sample mass: 314.0
23:50:12:
23:50:12: Finding reference mass
23:50:13: Finding sample mass
23:50:14:
23:50:20: [1] 313.9848 amu, mean: 313.9848
23:50:23: [2] 313.9847 amu, mean: 313.9847 SD: 0.06 mmu or: 0.19 ppm
23:50:26: [3] 313.9848 amu, mean: 313.9847 SD: 0.05 mmu or: 0.15 ppm
23:50:29: [4] 313.9847 amu, mean: 313.9847 SD: 0.05 mmu or: 0.15 ppm
23:50:30:
23:50:30: Stop requested. Please wait for procedure to finish.
23:50:30:
23:50:32:
23:50:33: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:55: Peak matching procedure started
23:50:55:
23:50:56: Reference mass: 313.98336
23:50:56: Sample mass: 376.0
23:50:57:
23:50:57: Finding reference mass
23:50:58: Finding sample mass
23:50:59:
23:51:04: [1] 375.9806 amu, mean: 375.9806
23:51:08: [2] 375.9814 amu, mean: 375.9810 SD: 0.54 mmu or: 1.44 ppm
23:51:11: [3] 375.9817 amu, mean: 375.9812 SD: 0.55 mmu or: 1.45 ppm
23:51:14: [4] 375.9815 amu, mean: 375.9813 SD: 0.47 mmu or: 1.25 ppm
23:51:15:
23:51:15: Stop requested. Please wait for procedure to finish.
23:51:15:
23:51:17:
23:51:18: Peakmatching stopped


Signature

 7-15-24

Reports

23:50:55: Peak matching procedure started
23:50:55:
23:50:56: Reference mass: 313.98336
23:50:56: Sample mass: 376.0
23:50:57:
23:50:57: Finding reference mass
23:50:58: Finding sample mass
23:50:59:
23:51:04: [1] 375.9806 amu, mean: 375.9806
23:51:08: [2] 375.9814 amu, mean: 375.9810 SD: 0.54 mmu or: 1.44 ppm
23:51:11: [3] 375.9817 amu, mean: 375.9812 SD: 0.55 mmu or: 1.45 ppm
23:51:14: [4] 375.9815 amu, mean: 375.9813 SD: 0.47 mmu or: 1.25 ppm
23:51:15:
23:51:15: Stop requested. Please wait for procedure to finish.
23:51:15:
23:51:17:
23:51:18: Peakmatching stopped

Signature

 7-15-24

Reports

23:51:47: Peak matching procedure started
23:51:47:
23:51:48: Reference mass: 375.98017
23:51:48: Sample mass: 414.0
23:51:49:
23:51:49: Finding reference mass
23:51:50: Finding sample mass
23:51:51:
23:51:56: [1] 413.9775 amu, mean: 413.9775
23:52:00: [2] 413.9769 amu, mean: 413.9772 SD: 0.47 mmu or: 1.15 ppm
23:52:03: [3] 413.9773 amu, mean: 413.9772 SD: 0.34 mmu or: 0.82 ppm
23:52:06: [4] 413.9779 amu, mean: 413.9774 SD: 0.43 mmu or: 1.03 ppm
23:52:07:
23:52:07: Stop requested. Please wait for procedure to finish.
23:52:07:
23:52:09: [5] 413.9774 amu, mean: 413.9774 SD: 0.37 mmu or: 0.89 ppm
23:52:11:
23:52:11: Peakmatching stopped

Signature

A handwritten signature in black ink, appearing to be 'L 7-15-24'.

Reports

23:52:34: Peak matching procedure started
23:52:34:
23:52:35: Reference mass: 413.97698
23:52:35: Sample mass: 464.0
23:52:36:
23:52:36: Finding reference mass
23:52:37: Finding sample mass
23:52:38:
23:52:44: [1] 463.9747 amu, mean: 463.9747
23:52:47: [2] 463.9746 amu, mean: 463.9746 SD: 0.02 mmu or: 0.04 ppm
23:52:50: [3] 463.9744 amu, mean: 463.9745 SD: 0.16 mmu or: 0.35 ppm
23:52:53: [4] 463.9742 amu, mean: 463.9745 SD: 0.22 mmu or: 0.46 ppm
23:52:53:
23:52:53: Stop requested. Please wait for procedure to finish.
23:52:53:
23:52:56:
23:52:57: Peakmatching stopped


Signature

Handwritten signature in black ink, appearing to be "L 7.15.24".

Reports

23:53:23: Peak matching procedure started
23:53:23:
23:53:24: Reference mass: 463.97378
23:53:24: Sample mass: 502.0
23:53:25:
23:53:25: Finding reference mass
23:53:26: Finding sample mass
23:53:27:
23:53:32: [1] 501.9702 amu, mean: 501.9702
23:53:36: [2] 501.9704 amu, mean: 501.9703 SD: 0.18 mmu or: 0.36 ppm
23:53:39: [3] 501.9703 amu, mean: 501.9703 SD: 0.13 mmu or: 0.26 ppm
23:53:42: [4] 501.9700 amu, mean: 501.9702 SD: 0.17 mmu or: 0.34 ppm
23:53:43:
23:53:43: Stop requested. Please wait for procedure to finish.
23:53:43:
23:53:45:
23:53:46: Peakmatching stopped

Signature

 7-15-24

Resolution Check Report (DFS SN: 3190)

Date: 16 Jul 2024 11:10
MID Experiment: ResCheck_1668
Target Resolution: 10000
Resolution Warning : 10000
Resolution Error : 10000
Reference: FC43KnxPCB.lua
Status: RESOLUTION PASSED

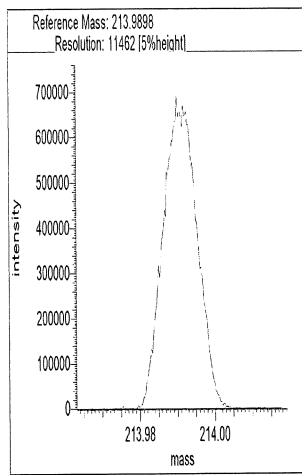
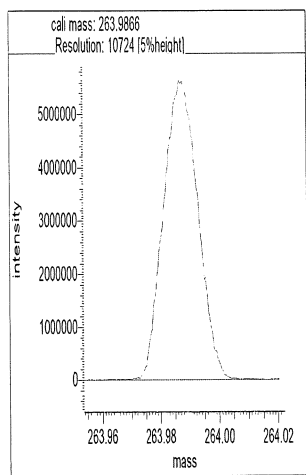
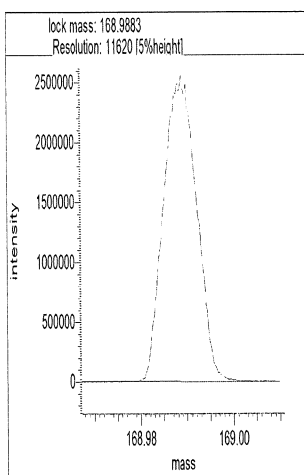
d2240716r1

Segment 1

Lock mass 168.9883 [m/z] Resolution: 11620 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10724 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 11462 [5%height]

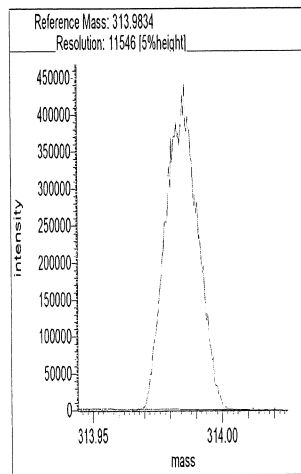
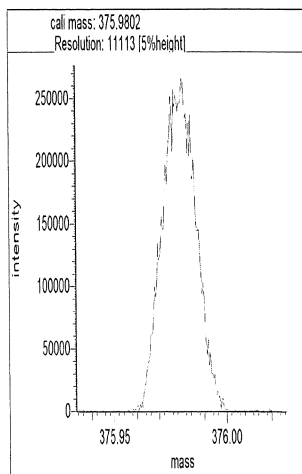
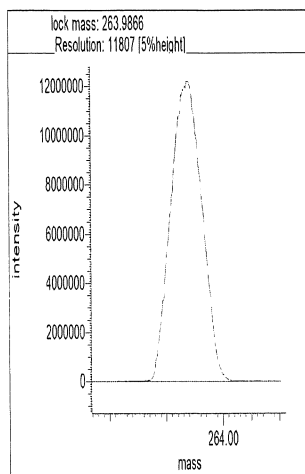


Segment 2

Lock mass 263.9866 [m/z] Resolution: 11807 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 11113 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 11546 [5%height]

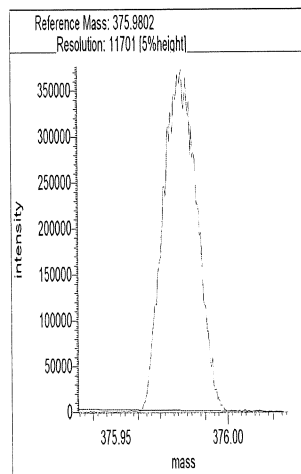
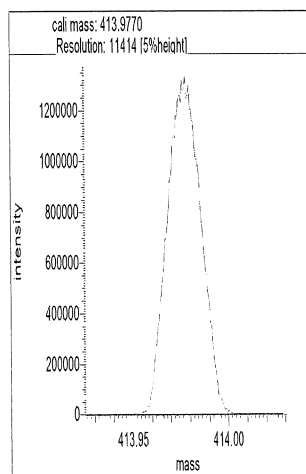
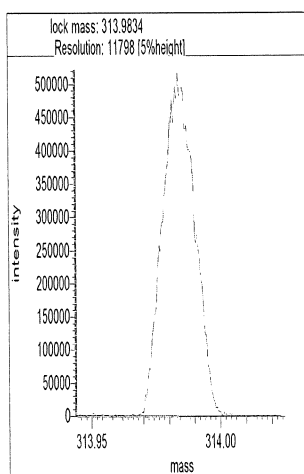


Segment 3

Lock mass 313.9834 [m/z] Resolution: 11798 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11414 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11701 [5%height]

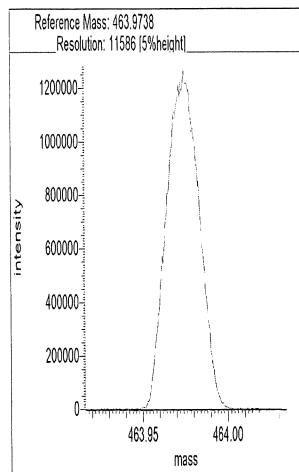
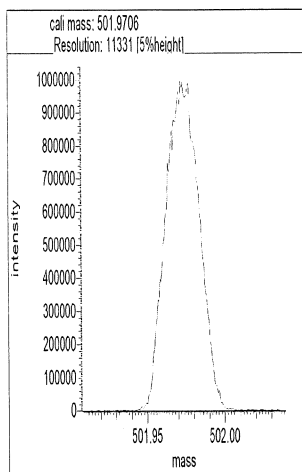
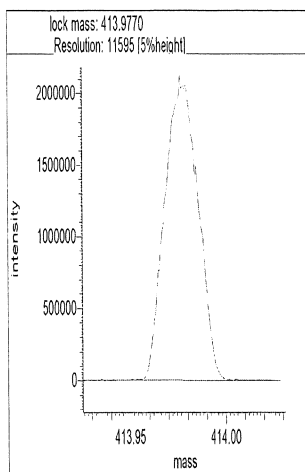


Segment 4

Lock mass 413.9770 [m/z] Resolution: 11595 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11331 [5%height]

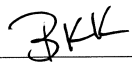
Ref. mass 463.9738 [m/z] Resolution: 11586 [5%height]



Reports

11:19:46: Peak matching procedure started
11:19:46:
11:19:47: Reference mass: 168.98827
11:19:47: Sample mass: 214.0
11:19:48:
11:19:48: Finding reference mass
11:19:49: Finding sample mass
11:19:50:
11:19:55: [1] 213.9902 amu, mean: 213.9902
11:19:59: [2] 213.9902 amu, mean: 213.9902 SD: 0.05 mmu or: 0.22 ppm
11:20:02: [3] 213.9903 amu, mean: 213.9902 SD: 0.06 mmu or: 0.27 ppm
11:20:05: [4] 213.9905 amu, mean: 213.9903 SD: 0.15 mmu or: 0.69 ppm
11:20:06:
11:20:06: Stop requested. Please wait for procedure to finish.
11:20:06:
11:20:08: [5] 213.9903 amu, mean: 213.9903 SD: 0.13 mmu or: 0.60 ppm
11:20:10:
11:20:10: Peakmatching stopped

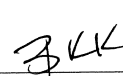
Signature

 7/16/24

Reports

11:20:21: Peak matching procedure started
11:20:22:
11:20:22: Reference mass: 213.98975
11:20:23: Sample mass: 264.0
11:20:23:
11:20:24: Finding reference mass
11:20:25: Finding sample mass
11:20:25:
11:20:31: [1] 263.9870 amu, mean: 263.9870
11:20:34: [2] 263.9872 amu, mean: 263.9871 SD: 0.15 mmu or: 0.56 ppm
11:20:37: [3] 263.9876 amu, mean: 263.9873 SD: 0.33 mmu or: 1.25 ppm
11:20:41: [4] 263.9875 amu, mean: 263.9873 SD: 0.30 mmu or: 1.15 ppm
11:20:41:
11:20:41: Stop requested. Please wait for procedure to finish.
11:20:41:
11:20:44:
11:20:44: Peakmatching stopped


Signature

 7/16/24

Reports

11:21:00: Peak matching procedure started
11:21:00:
11:21:01: Reference mass: 263.98656
11:21:01: Sample mass: 314.0
11:21:02:
11:21:02: Finding reference mass
11:21:04: Finding sample mass
11:21:04:
11:21:10: [1] 313.9848 amu, mean: 313.9848
11:21:13: [2] 313.9847 amu, mean: 313.9848 SD: 0.02 mmu or: 0.08 ppm
11:21:16: [3] 313.9842 amu, mean: 313.9846 SD: 0.34 mmu or: 1.08 ppm
11:21:19: [4] 313.9846 amu, mean: 313.9846 SD: 0.28 mmu or: 0.89 ppm
11:21:20:
11:21:20: Stop requested. Please wait for procedure to finish.
11:21:20:
11:21:22:
11:21:23: Peakmatching stopped


Signature

 7/16/24

Reports

11:21:35: Peak matching procedure started
11:21:35:
11:21:36: Reference mass: 313.98336
11:21:36: Sample mass: 376.0
11:21:37:
11:21:37: Finding reference mass
11:21:38: Finding sample mass
11:21:39:
11:21:45: [1] 375.9817 amu, mean: 375.9817
11:21:48: [2] 375.9811 amu, mean: 375.9814 SD: 0.39 mmu or: 1.03 ppm
11:21:51: [3] 375.9803 amu, mean: 375.9810 SD: 0.69 mmu or: 1.84 ppm
11:21:54: [4] 375.9816 amu, mean: 375.9812 SD: 0.63 mmu or: 1.69 ppm
11:21:55:
11:21:55: Stop requested. Please wait for procedure to finish.
11:21:55:
11:21:58:
11:21:58: Peakmatching stopped

Signature

 7/16/24

Reports

11:21:35: Peak matching procedure started
11:21:35:
11:21:36: Reference mass: 313.98336
11:21:36: Sample mass: 376.0
11:21:37:
11:21:37: Finding reference mass
11:21:38: Finding sample mass
11:21:39:
11:21:45: [1] 375.9817 amu, mean: 375.9817
11:21:48: [2] 375.9811 amu, mean: 375.9814 SD: 0.39 mmu or: 1.03 ppm
11:21:51: [3] 375.9803 amu, mean: 375.9810 SD: 0.69 mmu or: 1.84 ppm
11:21:54: [4] 375.9816 amu, mean: 375.9812 SD: 0.63 mmu or: 1.69 ppm
11:21:55:
11:21:55: Stop requested. Please wait for procedure to finish.
11:21:55:
11:21:58:
11:21:58: Peakmatching stopped

Signature

BKK 7/16/24

Reports

11:22:15: Peak matching procedure started
11:22:15:
11:22:16: Reference mass: 375.98017
11:22:16: Sample mass: 414.0
11:22:17:
11:22:17: Finding reference mass
11:22:18: Finding sample mass
11:22:19:
11:22:25: [1] 413.9776 amu, mean: 413.9776 SD: 0.05 mmu or: 0.12 ppm
11:22:28: [2] 413.9777 amu, mean: 413.9776 SD: 0.06 mmu or: 0.15 ppm
11:22:31: [3] 413.9775 amu, mean: 413.9776 SD: 0.06 mmu or: 0.15 ppm
11:22:34: [4] 413.9775 amu, mean: 413.9776 SD: 0.06 mmu or: 0.15 ppm
11:22:35:
11:22:35: Stop requested. Please wait for procedure to finish.
11:22:35:
11:22:37:
11:22:38: Peakmatching stopped

Signature

 7/16/24

Reports

11:22:50: Peak matching procedure started
11:22:51:
11:22:51: Reference mass: 413.97698
11:22:52: Sample mass: 464.0
11:22:52:
11:22:53: Finding reference mass
11:22:54: Finding sample mass
11:22:54:
11:23:00: [1] 463.9739 amu, mean: 463.9739
11:23:03: [2] 463.9742 amu, mean: 463.9740 SD: 0.22 mmu or: 0.48 ppm
11:23:06: [3] 463.9741 amu, mean: 463.9741 SD: 0.16 mmu or: 0.35 ppm
11:23:10: [4] 463.9743 amu, mean: 463.9741 SD: 0.18 mmu or: 0.40 ppm
11:23:10:
11:23:10: Stop requested. Please wait for procedure to finish.
11:23:10:
11:23:13:
11:23:13: Peakmatching stopped

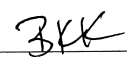
Signature

BKX 7/16/24

Reports

11:23:24: Peak matching procedure started
11:23:25:
11:23:25: Reference mass: 463.97378
11:23:26: Sample mass: 502.0
11:23:26:
11:23:27: Finding reference mass
11:23:28: Finding sample mass
11:23:28:
11:23:34: [1] 501.9705 amu, mean: 501.9705
11:23:37: [2] 501.9711 amu, mean: 501.9708 SD: 0.43 mmu or: 0.86 ppm
11:23:40: [3] 501.9705 amu, mean: 501.9707 SD: 0.37 mmu or: 0.73 ppm
11:23:44: [4] 501.9702 amu, mean: 501.9706 SD: 0.40 mmu or: 0.79 ppm
11:23:45:
11:23:45: Stop requested. Please wait for procedure to finish.
11:23:45:
11:23:47:
11:23:47: Peakmatching stopped

Signature

 7/16/24

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 16-Jul-2024 00:00:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 02:04:41 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 16-Jul-2024 02:04:41

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					151.4	151.4	0.1325	0.1325		
D PCB-1L	11:39	8785809	3.18	1.6108	102.8	102.8	0.2332	0.2332	103	
D PCB-3L	13:47	8386625	3.20	1.5891	99.5	99.5	0.2364	0.2364	99.45	
PCB-1	11:39	5409641	3.13	1.2191	50.5	50.5	0.1145	0.1145	101	
PCB-2	13:37	5061780	3.20	1.1805	49.9	49.9	0.1339	0.1339	99.88	
PCB-3	13:48	5218634	3.07	1.2206	51.0	51.0	0.1493	0.1493	102	
S Total Dichlorobiphenyls					621.6	621.6	0.0764	0.0764		
D PCB-4L	14:02	3427741	1.62	0.6475	99.8	99.8	0.1290	0.1290	99.75	
* PCB-9L	15:59	5306496	1.59		100.0	100.0				
\$ PCB-8L	16:49	2552791	1.68	1.2066	47.6	47.6	0.0900	0.0900	95.16	
D PCB-15L	19:53	5464951	1.62	1.0789	95.5	95.5	0.0774	0.0774	95.45	
PCB-4	14:03	2221001	1.59	1.2818	50.5	50.5	0.0864	0.0864	101	
PCB-10	14:13	3140028	1.62	1.3149	53.7	53.7	0.0800	0.0800	107	
PCB-9	15:59	3290642	1.64	1.4224	52.0	52.0	0.0739	0.0739	104	
PCB-7	16:09	3241403	1.64	1.4134	51.6	51.6	0.0744	0.0744	103	
PCB-6	16:24	3575552	1.62	1.5421	52.1	52.1	0.0682	0.0682	104	
PCB-5	16:43	3043056	1.61	1.3395	51.1	51.1	0.0785	0.0785	102	
PCB-8	16:50	3806976	1.59	1.5889	53.9	53.9	0.0662	0.0662	108	
PCB-14	18:26	3196269	1.64	1.4025	51.3	51.3	0.0750	0.0750	103	
PCB-11	19:17	3027110	1.63	1.2951	52.6	52.6	0.0812	0.0812	105	
PCB-12	19:35	6062228	1.62	1.3358	102.1	102.1	0.0787	0.0787	102	
PCB-13 (C12)	19:35	6062228	1.62	1.3358	102.1	102.1	0.0787	0.0787	102	
PCB-15	19:54	3578374	1.60	1.2903	50.7	50.7	0.0775	0.0775	101	
S Total Trichlorobiphenyls					1227.3	1227.3	0.5384	0.5384		
D PCB-19L	17:07	2142556	1.08	0.6285	99.7	99.7	0.4584	0.4584	99.66	
* PCB-32L	20:20	3420386	1.09		100.0	100.0				
* PCB-31L	22:35	7800568	1.06		100.0	100.0				
\$ PCB-28L	22:53	3949259	1.10	1.0494	48.2	48.2	0.1285	0.1285	96.49	
D PCB-37L	26:53	6777736	1.06	0.8749	99.3	99.3	0.1541	0.1541	99.31	
PCB-19	17:08	1368379	1.06	1.2809	49.9	49.9	0.0543	0.0543	99.72	
PCB-18	18:55	3721690	1.07	1.7652	98.4	98.4	0.0394	0.0394	98.40	
PCB-30 (C18)	18:55	3721690	1.07	1.7652	98.4	98.4	0.0394	0.0394	98.40	
PCB-17	19:24	1320107	1.02	1.2430	49.6	49.6	0.0559	0.0559	99.14	
PCB-27	19:37	1918614	1.07	1.8327	48.9	48.9	0.0379	0.0379	97.72	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:44	1804293	1.07	1.6777	50.2	50.2	0.0414	0.0414	100	
PCB-16	19:52	1236776	1.06	1.1286	51.1	51.1	0.0616	0.0616	102	
PCB-32	20:22	1988382	1.07	1.8324	50.6	50.6	0.0379	0.0379	101	
PCB-34	21:36	3942744	1.07	1.1277	51.6	51.6	0.8103	0.8103	103	
PCB-23	21:45	3972150	1.04	1.0813	54.2	54.2	0.8451	0.8451	108	
PCB-26	22:04	7812065	1.06	1.1255	102.4	102.4	0.8119	0.8119	102	
PCB-29 (C26)	22:04	7812065	1.06	1.1255	102.4	102.4	0.8119	0.8119	102	
PCB-25	22:18	4536813	1.03	1.2728	52.6	52.6	0.7179	0.7179	105	
PCB-31	22:37	4172208	1.07	1.1532	53.4	53.4	0.7924	0.7924	107	
PCB-20	22:55	8053930	1.06	1.1718	101.4	101.4	0.7798	0.7798	101	
PCB-28 (C20)	22:55	8053930	1.06	1.1718	101.4	101.4	0.7798	0.7798	101	
PCB-21	23:05	7625763	1.05	1.0746	104.7	104.7	0.8504	0.8504	105	M
PCB-33 (C21)	23:05	7625763	1.05	1.0746	104.7	104.7	0.8504	0.8504	105	M
PCB-22	23:33	4261270	1.07	1.1932	52.7	52.7	0.7658	0.7658	105	
PCB-36	25:05	3795639	1.02	1.1071	50.6	50.6	0.8254	0.8254	101	
PCB-39	25:27	4065293	1.04	1.1581	51.8	51.8	0.7890	0.7890	104	
PCB-38	26:01	3716690	1.06	1.0843	50.6	50.6	0.8427	0.8427	101	
PCB-35	26:30	4018181	1.05	1.1297	52.5	52.5	0.8089	0.8089	105	
PCB-37	26:54	3896695	1.05	1.1435	50.3	50.3	0.7991	0.7991	101	
S Total Tetrachlorobiphenyls					2050.9	2050.9	0.4402	0.4402		
D PCB-54L	20:11	2110940	0.83	0.5562	111.0	111.0	0.0422	0.0422	111	
* PCB-52L	24:42	4196383	0.81		100.0	100.0				
\$ PCB-79L	32:36	2613286	0.81	1.0018	49.4	49.4	0.3406	0.3406	98.74	
D PCB-81L	33:36	5155279	0.80	1.2470	98.5	98.5	0.2818	0.2818	98.52	
D PCB-77L	34:11	5411498	0.82	1.3212	97.6	97.6	0.2660	0.2660	97.61	
PCB-54	20:12	1384834	0.78	1.2733	51.5	51.5	0.0270	0.0270	103	
PCB-50	22:21	4204725	0.79	0.8578	92.8	92.8	0.5660	0.5660	92.78	
PCB-53 (C50)	22:21	4204725	0.79	0.8578	92.8	92.8	0.5660	0.5660	92.78	
PCB-45	23:05	4342024	0.80	0.8264	99.4	99.4	0.5875	0.5875	99.44	M
PCB-51 (C45)	23:05	4342024	0.80	0.8264	99.4	99.4	0.5875	0.5875	99.44	M
PCB-46	23:20	1839098	0.81	0.7101	49.0	49.0	0.6838	0.6838	98.04	
PCB-52	24:44	2414904	0.80	0.9194	49.7	49.7	0.5281	0.5281	99.43	
PCB-43	24:52	5430327	0.81	1.0333	99.5	99.5	0.4699	0.4699	99.46	M
PCB-73 (C43)	24:52	5430327	0.81	1.0333	99.5	99.5	0.4699	0.4699	99.46	M
PCB-49	25:09	5334308	0.78	1.0685	94.5	94.5	0.4544	0.4544	94.49	
PCB-69 (C49)	25:09	5334308	0.78	1.0685	94.5	94.5	0.4544	0.4544	94.49	
PCB-48	25:29	2148586	0.81	0.8399	48.4	48.4	0.5781	0.5781	96.84	
PCB-44	25:44	7429782	0.80	0.9731	144.5	144.5	0.4990	0.4990	96.34	
PCB-47 (C44)	25:44	7429782	0.80	0.9731	144.5	144.5	0.4990	0.4990	96.34	
PCB-65 (C44)	25:44	7429782	0.80	0.9731	144.5	144.5	0.4990	0.4990	96.34	
PCB-59	26:03	9015938	0.79	1.1853	144.0	144.0	0.4096	0.4096	95.98	
PCB-62 (C59)	26:03	9015938	0.79	1.1853	144.0	144.0	0.4096	0.4096	95.98	
PCB-75 (C59)	26:03	9015938	0.79	1.1853	144.0	144.0	0.4096	0.4096	95.98	
PCB-42	26:15	2158614	0.81	0.8097	50.5	50.5	0.5997	0.5997	101	
PCB-40	26:45	6684343	0.76	0.8863	142.7	142.7	0.5478	0.5478	95.16	M
PCB-41 (C40)	26:45	6684343	0.76	0.8863	142.7	142.7	0.5478	0.5478	95.16	M
PCB-71 (C40)	26:45	6684343	0.76	0.8863	142.7	142.7	0.5478	0.5478	95.16	M
PCB-64	26:57	2967298	0.79	1.1776	47.7	47.7	0.4123	0.4123	95.39	
PCB-72	27:46	2895436	0.79	1.0943	50.1	50.1	0.4437	0.4437	100	
PCB-68	28:04	3449047	0.79	1.2533	52.1	52.1	0.3874	0.3874	104	
PCB-57	28:29	2873866	0.79	1.0818	50.3	50.3	0.4488	0.4488	101	
PCB-58	28:44	3555404	0.80	1.3253	50.8	50.8	0.3663	0.3663	102	
PCB-67	28:53	3609770	0.84	1.4230	48.0	48.0	0.3412	0.3412	96.02	
PCB-63	29:09	2924612	0.80	1.1240	49.2	49.2	0.4320	0.4320	98.50	
PCB-61	29:30	12894847	0.80	1.2612	193.5	193.5	0.3850	0.3850	96.76	M
PCB-70 (C61)	29:30	12894847	0.80	1.2612	193.5	193.5	0.3850	0.3850	96.76	M
PCB-74 (C61)	29:30	12894847	0.80	1.2612	193.5	193.5	0.3850	0.3850	96.76	M
PCB-76 (C61)	29:30	12894847	0.80	1.2612	193.5	193.5	0.3850	0.3850	96.76	M
PCB-66	29:49	3453591	0.79	1.2583	52.0	52.0	0.3859	0.3859	104	
PCB-55	29:59	3569865	0.80	1.3236	51.0	51.0	0.3668	0.3668	102	
PCB-56	30:30	3207170	0.80	1.2334	49.2	49.2	0.3937	0.3937	98.43	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42	2802941	0.82	1.1230	47.2	47.2	0.4323	0.4323	94.48	
PCB-80	31:06	3507194	0.82	1.3243	50.1	50.1	0.3666	0.3666	100	
PCB-79	32:38	3537155	0.78	1.4368	46.6	46.6	0.3379	0.3379	93.19	
PCB-78	33:11	3139470	0.79	1.1618	51.1	51.1	0.4179	0.4179	102	
PCB-81	33:38	2607673	0.82	1.0802	46.8	46.8	0.4485	0.4485	93.65	
PCB-77	34:12	2845193	0.81	1.0836	48.5	48.5	0.4491	0.4491	97.04	
S Total Pentachlorobiphenyls					2240.9	2240.9	0.2262	0.2262		
D PCB-104L	25:38	3658630	1.60	1.2161	106.3	106.3	0.0752	0.0752	106	
\$ PCB-95L	28:36	1265505	1.69	0.7218	47.9	47.9	0.0954	0.0954	95.84	
* PCB-101L	31:31	2829519	1.64		100.0	100.0				
\$ PCB-111L	34:11	1818403	1.67	1.3699	46.9	46.9	0.0668	0.0668	93.83	
D PCB-123L	36:09	5008102	1.56	0.9731	100.3	100.3	1.101	1.101	100	
D PCB-118L	36:29	5257296	1.60	1.0102	101.4	101.4	1.060	1.060	101	
D PCB-114L	37:00	5192266	1.56	0.9949	101.7	101.7	1.077	1.077	102	
D PCB-105L	37:41	5109664	1.60	0.9514	104.7	104.7	1.126	1.126	105	
* PCB-127L	39:07	5130113	1.62		100.0	100.0				
D PCB-126L	40:45	4931191	1.60	0.9439	101.8	101.8	1.135	1.135	102	
PCB-104	25:40	1814734	1.62	1.0087	49.2	49.2	0.0573	0.0573	98.35	
PCB-96	26:03	1882519	1.58	1.0940	47.0	47.0	0.0528	0.0528	94.07	
PCB-103	27:57	1591994	1.64	0.8741	49.8	49.8	0.0661	0.0661	99.56	
PCB-94	28:11	1315447	1.67	0.7640	47.1	47.1	0.0756	0.0756	94.12	
PCB-95	28:38	1469428	1.56	0.8033	50.0	50.0	0.0720	0.0720	100	
PCB-93	28:50	2912715	1.55	0.8429	94.5	94.5	0.0686	0.0686	94.45	
PCB-100 (C93)	28:50	2912715	1.55	0.8429	94.5	94.5	0.0686	0.0686	94.45	
PCB-98	28:59	2989056	1.60	0.8262	98.9	98.9	0.0700	0.0700	98.89	M
PCB-102 (C98)	28:59	2989056	1.60	0.8262	98.9	98.9	0.0700	0.0700	98.89	M
PCB-88	29:29	2884774	1.60	0.8013	98.4	98.4	0.0721	0.0721	98.40	
PCB-91 (C88)	29:29	2884774	1.60	0.8013	98.4	98.4	0.0721	0.0721	98.40	
PCB-84	29:44	1303149	1.53	0.7299	48.8	48.8	0.0792	0.0792	97.59	
PCB-89	30:11	1338846	1.56	0.7798	46.9	46.9	0.0741	0.0741	93.85	
PCB-121	30:34	2313332	1.58	1.2964	48.8	48.8	0.0446	0.0446	97.55	
PCB-92	30:58	1535756	1.60	0.8546	49.1	49.1	0.0676	0.0676	98.24	
PCB-90	31:31	5162150	1.60	0.9550	147.7	147.7	0.0605	0.0605	98.50	
PCB-101 (C90)	31:31	5162150	1.60	0.9550	147.7	147.7	0.0605	0.0605	98.50	
PCB-113 (C90)	31:31	5162150	1.60	0.9550	147.7	147.7	0.0605	0.0605	98.50	
PCB-83	32:07	2995713	1.62	0.8385	97.7	97.7	0.0689	0.0689	97.65	
PCB-99 (C83)	32:07	2995713	1.62	0.8385	97.7	97.7	0.0689	0.0689	97.65	
PCB-112	32:14	2477372	1.60	1.4111	48.0	48.0	0.0410	0.0410	95.97	
PCB-86	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-87 (C86)	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-97 (C86)	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-109 (C86)	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-119 (C86)	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-125 (C86)	32:36	10921542	1.58	1.0473	285.0	285.0	0.0552	0.0552	95.01	M
PCB-85	33:19	5542435	1.61	1.0408	145.6	145.6	0.0555	0.0555	97.03	
PCB-116 (C85)	33:19	5542435	1.61	1.0408	145.6	145.6	0.0555	0.0555	97.03	
PCB-117 (C85)	33:19	5542435	1.61	1.0408	145.6	145.6	0.0555	0.0555	97.03	
PCB-110	33:33	4259781	1.58	1.1919	97.7	97.7	0.0485	0.0485	97.69	
PCB-115 (C110)	33:33	4259781	1.58	1.1919	97.7	97.7	0.0485	0.0485	97.69	
PCB-82	33:51	1499633	1.54	0.8303	49.4	49.4	0.0696	0.0696	98.73	
PCB-111	34:12	2147597	1.58	1.2125	48.4	48.4	0.0477	0.0477	96.82	
PCB-120	34:40	2597065	1.60	1.4762	48.1	48.1	0.0392	0.0392	96.17	
PCB-108	35:49	5438629	1.57	1.1405	93.5	93.5	0.5582	0.5582	93.51	
PCB-124 (C108)	35:49	5438629	1.57	1.1405	93.5	93.5	0.5582	0.5582	93.51	
PCB-107	36:04	3101045	1.62	1.2121	50.2	50.2	0.5252	0.5252	100	
PCB-123	36:11	2548720	1.61	1.0722	47.5	47.5	0.5868	0.5868	94.93	
PCB-106	36:18	2832861	1.56	1.0839	51.2	51.2	0.5873	0.5873	102	
PCB-118	36:30	3129626	1.64	1.2055	49.4	49.4	0.5171	0.5171	98.76	
PCB-122	36:52	2441558	1.58	0.9567	50.0	50.0	0.6654	0.6654	100	
PCB-114	37:02	2827623	1.60	1.0842	50.2	50.2	0.5645	0.5645	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41	3069534	1.60	1.1879	50.6	50.6	0.5361	0.5361	101	
PCB-127	39:09	2970444	1.62	1.1394	51.1	51.1	0.5588	0.5588	102	
PCB-126	40:47	2772924	1.58	1.0976	51.2	51.2	0.6257	0.6257	102	
S Total Hexachlorobiphenyls					2061.8	2061.8	0.2750	0.2750		
D PCB-155L	31:16	3095877	1.27	1.0851	100.8	100.8	0.0330	0.0330	101	
\$ PCB-153L	38:20	1829646	1.31	0.9169	44.7	44.7	0.5849	0.5849	89.49	
* PCB-138L	39:36	3475565	1.31		100.0	100.0				
D PCB-167L	42:35	4418332	1.26	1.2572	101.1	101.1	0.4278	0.4278	101	
D PCB-156L	43:44	8707776	1.27	1.2106	207.0	207.0	0.4442	0.4442	103	
D PCB-157L (C156L)	43:44	8707776	1.27	1.2106	207.0	207.0	0.4442	0.4442	103	
D PCB-169L	46:58	4712160	1.28	1.2439	109.0	109.0	0.4324	0.4324	109	
PCB-155	31:17	1537697	1.28	0.9444	52.6	52.6	0.0258	0.0258	105	
PCB-152	31:31	1545060	1.30	0.9895	50.4	50.4	0.0246	0.0246	101	
PCB-150	31:40	1633683	1.31	1.0132	52.1	52.1	0.0240	0.0240	104	
PCB-136	32:03	1634496	1.29	1.0116	52.2	52.2	0.0241	0.0241	104	
PCB-145	32:20	1546432	1.30	0.9685	51.6	51.6	0.0252	0.0252	103	
PCB-148	33:50	1207823	1.29	0.7603	51.3	51.3	0.0320	0.0320	103	
PCB-135	34:26	2378405	1.28	0.7256	105.9	105.9	0.0336	0.0336	106	M
PCB-151 (C135)	34:26	2378405	1.28	0.7256	105.9	105.9	0.0336	0.0336	106	M
PCB-154	34:41	1329124	1.28	0.8129	52.8	52.8	0.0300	0.0300	106	
PCB-144	35:00	1251999	1.26	0.7852	51.5	51.5	0.0310	0.0310	103	
PCB-147	35:22	3810436	1.27	0.8950	95.5	95.5	0.3928	0.3928	95.47	
PCB-149 (C147)	35:22	3810436	1.27	0.8950	95.5	95.5	0.3928	0.3928	95.47	
PCB-134	35:40	3378385	1.28	0.7967	95.1	95.1	0.4413	0.4413	95.09	
PCB-143 (C134)	35:40	3378385	1.28	0.7967	95.1	95.1	0.4413	0.4413	95.09	
PCB-139	35:57	3656511	1.25	0.8769	93.5	93.5	0.4009	0.4009	93.51	
PCB-140 (C139)	35:57	3656511	1.25	0.8769	93.5	93.5	0.4009	0.4009	93.51	
PCB-131	36:10	1585663	1.31	0.7503	47.4	47.4	0.4685	0.4685	94.78	
PCB-142	36:19	1652420	1.26	0.7507	49.4	49.4	0.4683	0.4683	98.72	
PCB-132	36:38	1561911	1.27	0.7489	46.8	46.8	0.4694	0.4694	93.53	
PCB-133	37:07	1636177	1.24	0.8096	45.3	45.3	0.4342	0.4342	90.64	
PCB-165	37:30	2231719	1.28	1.0247	48.8	48.8	0.3431	0.3431	97.67	
PCB-146	37:45	2041160	1.27	0.9637	47.5	47.5	0.3648	0.3648	94.99	
PCB-161	37:53	2375641	1.27	1.1288	47.2	47.2	0.3114	0.3114	94.39	
PCB-153	38:23	4752269	1.27	1.0938	97.4	97.4	0.3214	0.3214	97.43	
PCB-168 (C153)	38:23	4752269	1.27	1.0938	97.4	97.4	0.3214	0.3214	97.43	
PCB-141	38:34	1878911	1.29	0.8755	48.1	48.1	0.4015	0.4015	96.24	
PCB-130	38:59	1491517	1.28	0.7051	47.4	47.4	0.4986	0.4986	94.87	
PCB-137	39:11	1695260	1.26	0.7767	48.9	48.9	0.4526	0.4526	97.89	
PCB-164	39:19	2312231	1.29	1.0382	49.9	49.9	0.3386	0.3386	99.88	
PCB-129	39:38	8134150	1.25	0.9464	192.7	192.7	0.3714	0.3714	96.36	M
PCB-138 (C129)	39:38	8134150	1.25	0.9464	192.7	192.7	0.3714	0.3714	96.36	M
PCB-160 (C129)	39:38	8134150	1.25	0.9464	192.7	192.7	0.3714	0.3714	96.36	M
PCB-163 (C129)	39:38	8134150	1.25	0.9464	192.7	192.7	0.3714	0.3714	96.36	M
PCB-158	40:00	2751036	1.32	1.3110	47.1	47.1	0.2681	0.2681	94.11	
PCB-128	40:51	4193279	1.26	0.9829	95.7	95.7	0.3576	0.3576	95.66	
PCB-166 (C128)	40:51	4193279	1.26	0.9829	95.7	95.7	0.3576	0.3576	95.66	
PCB-159	41:50	2980131	1.27	1.3856	48.2	48.2	0.2537	0.2537	96.46	
PCB-162	42:08	2697051	1.26	1.2571	48.1	48.1	0.2796	0.2796	96.22	
PCB-167	42:36	2477365	1.26	1.1159	50.2	50.2	0.2614	0.2614	100	
PCB-156	43:46	4919293	1.26	1.1104	101.8	101.8	0.3963	0.3963	102	
PCB-157 (C156)	43:46	4919293	1.26	1.1104	101.8	101.8	0.3963	0.3963	102	
PCB-169	46:59	2702707	1.28	1.1628	49.3	49.3	0.2525	0.2525	98.65	
S Total Heptachlorobiphenyls					1225.5	1225.5	0.0103	0.0103		
D PCB-188L	36:59	3390130	1.06	1.3133	96.9	96.9	0.0127	0.0127	96.89	
\$ PCB-178L	40:02	1231310	1.04	1.0313	44.8	44.8	0.0162	0.0162	89.63	
* PCB-180L	45:07	2664074	1.06		100.0	100.0				
D PCB-170L	46:23	2346714	1.10	0.8362	105.3	105.3	0.0200	0.0200	105	
D PCB-189L	49:29	5463221	1.05	1.4414	102.8	102.8	1.167	1.167	103	
PCB-188	37:01	1945901	1.07	1.1350	50.6	50.6	0.003308	0.003308	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:22	2034946	1.09	1.4276	49.7	49.7	0.003156	0.003156	99.39	
PCB-184	37:52	1935304	1.06	1.3672	49.3	49.3	0.003295	0.003295	98.70	
PCB-176	38:14	1787358	1.08	1.2331	50.5	50.5	0.003654	0.003654	101	
PCB-186	38:42	2227363	1.10	1.4737	52.7	52.7	0.003057	0.003057	105	
PCB-178	40:04	1274935	1.04	0.8946	49.7	49.7	0.005036	0.005036	99.37	
PCB-175	40:42	1346186	1.08	0.9524	49.3	49.3	0.004731	0.004731	98.55	
PCB-187	40:58	1601655	1.04	1.1018	50.7	50.7	0.004089	0.004089	101	
PCB-182	41:09	1392983	1.03	0.9247	52.5	52.5	0.004872	0.004872	105	
PCB-183	41:34	2712373	1.08	0.9825	96.2	96.2	0.004586	0.004586	96.24	Ma
PCB-185 (C183)	41:34	2712373	1.08	0.9825	96.2	96.2	0.004586	0.004586	96.24	Ma
PCB-174	41:50	1405349	1.08	0.9642	50.8	50.8	0.004673	0.004673	102	
PCB-177	42:16	1393503	1.03	0.9773	49.7	49.7	0.004610	0.004610	99.42	
PCB-181	42:39	1390976	1.02	0.9505	51.0	51.0	0.004740	0.004740	102	
PCB-171	42:52	2583300	1.07	0.9336	96.5	96.5	0.004826	0.004826	96.46	
PCB-173 (C171)	42:52	2583300	1.07	0.9336	96.5	96.5	0.004826	0.004826	96.46	
PCB-172	44:30	1243748	1.03	0.8519	50.9	50.9	0.005289	0.005289	102	
PCB-192	44:45	2124057	1.06	1.3459	55.0	55.0	0.003348	0.003348	110	
PCB-180	45:06	3482237	1.06	1.1676	104.0	104.0	0.003859	0.003859	104	
PCB-193 (C180)	45:06	3482237	1.06	1.1676	104.0	104.0	0.003859	0.003859	104	
PCB-191	45:30	2052872	1.06	1.2891	55.5	55.5	0.003495	0.003495	111	
PCB-170	46:25	1358113	1.13	1.1865	48.8	48.8	0.004746	0.004746	97.55	
PCB-190	46:55	2293240	1.06	1.3322	60.0	60.0	0.003382	0.003382	120	
PCB-189	49:30	2737735	1.06	0.9633	52.0	52.0	0.1343	0.1343	104	
S Total Octachlorobiphenyls					622.4	622.4	0.0892	0.0892		
D PCB-202L	42:20	2547263	0.90	0.9818	97.4	97.4	0.0160	0.0160	97.39	
* PCB-194L	51:35	3687038	0.90		100.0	100.0				
D PCB-205L	52:03	4520876	0.91	1.1786	104.0	104.0	0.0570	0.0570	104	
PCB-202	42:23	1332186	0.93	1.0359	50.5	50.5	0.0641	0.0641	101	
PCB-201	43:17	1295351	0.92	0.9754	52.1	52.1	0.0681	0.0681	104	
PCB-204	43:57	1383815	0.89	1.0485	51.8	51.8	0.0633	0.0633	104	
PCB-197	44:11	1466446	0.87	1.1458	50.2	50.2	0.0579	0.0579	100	
PCB-200	44:19	1373229	0.91	1.0072	53.5	53.5	0.0659	0.0659	107	
PCB-198	47:04	2360611	0.91	0.8698	106.5	106.5	0.0763	0.0763	107	
PCB-199 (C198)	47:04	2360611	0.91	0.8698	106.5	106.5	0.0763	0.0763	107	
PCB-196	47:44	1079920	0.92	0.7806	54.3	54.3	0.0850	0.0850	109	
PCB-203	47:56	1347113	0.94	0.9292	56.9	56.9	0.0714	0.0714	114	
PCB-195	49:16	1816292	0.91	0.8263	48.6	48.6	0.1645	0.1645	97.24	
PCB-194	51:36	2117468	0.89	0.9735	48.1	48.1	0.1396	0.1396	96.22	
PCB-205	52:04	2446117	0.92	1.0878	49.7	49.7	0.1249	0.1249	99.48	
S Total Nonachlorobiphenyls					142.9	142.9	0.2510	0.2510		
D PCB-208L	49:00	3570516	0.77	0.9576	101.1	101.1	0.2298	0.2298	101	
D PCB-206L	53:48	2734864	0.80	0.6947	106.8	106.8	0.3167	0.3167	107	
PCB-208	49:02	1980639	0.80	1.1374	48.8	48.8	0.2451	0.2451	97.54	
PCB-207	49:57	2056242	0.79	1.3756	47.4	47.4	0.2311	0.2311	94.83	
PCB-206	53:49	1705864	0.78	1.3346	46.7	46.7	0.2770	0.2770	93.47	
D PCB-209L	55:24	2949328	0.70	0.6669	119.9	119.9	0.0798	0.0798	120	
DCB Decachlorobiphenyl	55:26	1656000	0.74	1.1004	51.0	51.0	0.0521	0.0521	102	
S Polychlorinated biphenyls, Total					10244	10244	0.2176	0.2176		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Lims ID: WDMCCV
Client ID:
Sample Type: WDMCCV
Inject. Date: 16-Jul-2024 00:00:00 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Xcalibur_System Instrument ID: D2D
Sublist: chrom-PCBs_D2D*sub2
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 16-Jul-2024 02:04:41 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 16-Jul-2024 02:04:41

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:39	0	0.729	6684937	2409996	1416	3540	1702		
202.0766	11:38	11:39	-1	0.728	2100872	771898	833	2082	927	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:47	0	0.863	6388223	1849499	1416	3540	1306		
202.0766	13:47	13:47	0	0.863	1998402	586883	833	2082	705	3.20(2.66-3.60)	
PCB-1											
188.0393	11:39	11:39	0	1.000	4099961	1505680	1322	3305	1139		
190.0363	11:39	11:39	0	1.000	1309680	483207	454	1135	1064	3.13(2.66-3.60)	
PCB-2											
188.0393	13:37	13:37	0	0.988	3855967	1196567	1322	3305	905		
190.0363	13:37	13:37	0	0.988	1205813	371235	454	1135	818	3.20(2.66-3.60)	
PCB-3											
188.0393	13:48	13:48	0	1.001	3937506	1129350	1322	3305	854		
190.0363	13:48	13:48	0	1.001	1281128	362148	454	1135	798	3.07(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.878	2117014	673532	383	957	1759		
236.0376	14:02	14:02	0	0.878	1310727	418458	117	292	3577	1.62(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		3255515	922799	383	957	2409		
236.0376	15:59	15:59	0		2050981	573598	117	292	4903	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:49	16:49	0	1.199	1598509	416637	383	957	1088		
236.0376	16:48	16:49	-1	1.198	954282	246466	117	292	2107	1.68(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:53	0	1.244	3376421	741407	383	957	1936		
236.0376	19:53	19:53	0	1.244	2088530	468454	117	292	4004	1.62(1.33-1.79)	
PCB-4											
222.0003	14:03	14:03	0	1.001	1363904	439589	154	385	2854		
223.9974	14:03	14:03	0	1.001	857097	269141	330	825	816	1.59(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	1943765	596256	154	385	3872		
223.9974	14:13	14:13	0	1.013	1196263	360919	330	825	1094	1.62(1.33-1.79)	
PCB-9											
222.0003	15:59	15:59	0	1.140	2045985	592227	154	385	3846		
223.9974	15:59	15:59	0	1.140	1244657	352114	330	825	1067	1.64(1.33-1.79)	
PCB-7											
222.0003	16:09	16:09	0	1.151	2015294	542937	154	385	3526		
223.9974	16:09	16:09	0	1.151	1226109	327015	330	825	991	1.64(1.33-1.79)	
PCB-6											
222.0003	16:24	16:24	0	1.169	2211240	575946	154	385	3740		
223.9974	16:24	16:24	0	1.169	1364312	354791	330	825	1075	1.62(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.191	1875583	511919	154	385	3324		
223.9974	16:42	16:43	-1	1.190	1167473	313197	330	825	949	1.61(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	0	1.200	2338741	587559	154	385	3815		
223.9974	16:50	16:50	0	1.200	1468235	369921	330	825	1121	1.59(1.33-1.79)	
PCB-14											
222.0003	18:26	18:26	0	0.927	1983506	467748	154	385	3037		
223.9974	18:26	18:26	0	0.927	1212763	291537	330	825	883	1.64(1.33-1.79)	
PCB-11											
222.0003	19:17	19:17	0	0.970	1874102	404897	154	385	2629		
223.9974	19:17	19:17	0	0.970	1153008	249351	330	825	756	1.63(1.33-1.79)	
PCB-12											
222.0003	19:35	19:35	0	0.985	3744774	604138	154	385	3923		
223.9974	19:35	19:35	-1	0.985	2317454	374570	330	825	1135	1.62(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:35	0	0.985	3744774	604138	154	385	3923		
223.9974	19:35	19:35	-1	0.985	2317454	374570	330	825	1135	1.62(1.33-1.79)	
PCB-15											
222.0003	19:54	19:54	0	1.001	2200184	456001	154	385	2961		
223.9974	19:54	19:54	0	1.001	1378190	285412	330	825	865	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:07	17:07	0	0.842	1111972	299903	417	1042	719		
269.9986	17:07	17:07	0	0.842	1030584	282735	525	1312	539	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:20	20:20	0		1779930	423390	417	1042	1015		
269.9986	20:20	20:20	0		1640456	393957	525	1312	750	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:35	22:35	0		4006753	902140	631	1577	1430		
269.9986	22:35	22:35	0		3793815	860649	320	800	2690	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:53	22:53	0	1.013	2065438	443323	631	1577	703		
269.9986	22:53	22:53	0	1.013	1883821	400809	320	800	1253	1.10(0.88-1.20)	
PCB-37L											
268.0016	26:53	26:53	0	1.190	3488942	657346	631	1577	1042		
269.9986	26:53	26:53	0	1.190	3288794	626000	320	800	1956	1.06(0.88-1.20)	
PCB-19											
255.9613	17:08	17:08	0	1.001	702638	187020	96	240	1948		
257.9584	17:08	17:08	0	1.001	665741	179417	66	165	2718	1.06(0.88-1.20)	
PCB-18											
255.9613	18:55	18:55	0	1.105	1924478	306852	96	240	3196		
257.9584	18:55	18:55	0	1.105	1797212	288531	66	165	4372	1.07(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:55	18:55	0	1.105	1924478	306852	96	240	3196		
257.9584	18:55	18:55	0	1.105	1797212	288531	66	165	4372	1.07(0.88-1.20)	
PCB-17											
255.9613	19:24	19:24	0	1.133	667898	164973	96	240	1718		
257.9584	19:24	19:24	0	1.133	652209	159204	66	165	2412	1.02(0.88-1.20)	
PCB-27											
255.9613	19:37	19:37	0	1.146	992492	250515	96	240	2610		
257.9584	19:37	19:37	0	1.146	926122	229183	66	165	3472	1.07(0.88-1.20)	
PCB-24											
255.9613	19:44	19:44	0	1.153	934296	234413	96	240	2442		
257.9584	19:44	19:44	0	1.153	869997	216488	66	165	3280	1.07(0.88-1.20)	
PCB-16											
255.9613	19:52	19:52	0	1.160	636514	147502	96	240	1536		
257.9584	19:51	19:52	-1	1.160	600262	140547	66	165	2130	1.06(0.88-1.20)	
PCB-32											
255.9613	20:22	20:22	0	1.190	1028241	248651	96	240	2590		
257.9584	20:22	20:22	0	1.190	960141	238195	66	165	3609	1.07(0.88-1.20)	
PCB-34											
255.9613	21:36	21:36	0	1.262	2039218	483757	1768	4420	274		
257.9584	21:36	21:36	0	1.262	1903526	441878	2923	7307	151	1.07(0.88-1.20)	
PCB-23											
255.9613	21:45	21:45	0	1.271	2028787	459330	1768	4420	260		
257.9584	21:45	21:45	0	1.271	1943363	431670	2923	7307	148	1.04(0.88-1.20)	
PCB-26											
255.9613	22:04	22:04	0	1.289	4017955	866836	1768	4420	490		
257.9584	22:04	22:04	0	1.289	3794110	805279	2923	7307	275	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:04	22:04	0	1.289	4017955	866836	1768	4420	490		
257.9584	22:04	22:04	0	1.289	3794110	805279	2923	7307	275	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:18	22:18	0	0.830	2300301	476104	1768	4420	269		
257.9584	22:18	22:18	0	0.830	2236512	451787	2923	7307	155	1.03(0.88-1.20)	
PCB-31											
255.9613	22:37	22:37	0	0.841	2153635	481771	1768	4420	272		
257.9584	22:37	22:37	0	0.841	2018573	450780	2923	7307	154	1.07(0.88-1.20)	
PCB-20											
255.9613	22:55	22:55	0	0.853	4146153	695873	1768	4420	394		
257.9584	22:55	22:55	0	0.853	3907777	649449	2923	7307	222	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:55	22:55	0	0.853	4146153	695873	1768	4420	394		
257.9584	22:55	22:55	0	0.853	3907777	649449	2923	7307	222	1.06(0.88-1.20)	
PCB-21											
255.9613	23:05	23:05	0	0.859	3903530	460209	1768	4420	260		M
257.9584	23:09	23:05	4	0.861	3722233	434256	2923	7307	149	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:05	23:05	0	0.859	3903530	460209	1768	4420	260		M
257.9584	23:09	23:05	4	0.861	3722233	434256	2923	7307	149	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:33	23:33	0	0.876	2198134	469404	1768	4420	266		
257.9584	23:33	23:33	0	0.876	2063136	456564	2923	7307	156	1.07(0.88-1.20)	
PCB-36											
255.9613	25:05	25:05	0	0.933	1916204	380901	1768	4420	215		
257.9584	25:05	25:05	0	0.933	1879435	364894	2923	7307	125	1.02(0.88-1.20)	
PCB-39											
255.9613	25:27	25:27	0	0.947	2072107	406622	1768	4420	230		
257.9584	25:27	25:27	0	0.947	1993186	385780	2923	7307	132	1.04(0.88-1.20)	
PCB-38											
255.9613	26:01	26:01	0	0.968	1912033	375305	1768	4420	212		
257.9584	26:01	26:01	0	0.968	1804657	359203	2923	7307	123	1.06(0.88-1.20)	
PCB-35											
255.9613	26:30	26:30	0	0.986	2057644	375905	1768	4420	213		
257.9584	26:30	26:30	0	0.986	1960537	355272	2923	7307	122	1.05(0.88-1.20)	
PCB-37											
255.9613	26:54	26:54	0	1.001	1992144	366930	1768	4420	208		
257.9584	26:54	26:54	0	1.001	1904551	337950	2923	7307	116	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:11	20:11	0	0.817	957924	233802	73	182	3203		
303.9597	20:11	20:11	0	0.817	1153016	288808	4	10	72202	0.83(0.65-0.89)	
PCB-52L											
301.9626	24:42	24:42	0		1879028	420587	529	1322	795		
303.9597	24:42	24:42	0		2317355	522652	797	1992	656	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:36	32:36	0	0.970	1170965	219869	529	1322	416		
303.9597	32:36	32:36	0	0.970	1442321	273465	797	1992	343	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:36	33:36	0	1.360	2295565	435137	529	1322	823		
303.9597	33:36	33:36	0	1.360	2859714	538580	797	1992	676	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:11	34:11	0	1.383	2444038	435042	529	1322	822		
303.9597	34:11	34:11	0	1.383	2967460	534263	797	1992	670	0.82(0.65-0.89)	
PCB-54											
289.9224	20:12	20:12	0	1.000	604876	152446	6	15	25408		
291.9194	20:12	20:12	0	1.000	779958	190862	66	165	2892	0.78(0.65-0.89)	
PCB-50											
289.9224	22:21	22:21	0	1.108	1853785	427677	711	1777	602		
291.9194	22:21	22:21	0	1.108	2350940	546868	1176	2940	465	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:21	22:21	0	1.108	1853785	427677	711	1777	602		
291.9194	22:21	22:21	0	1.108	2350940	546868	1176	2940	465	0.79(0.65-0.89)	
PCB-45											
289.9224	23:05	23:05	0	1.144	1925401	253103	711	1777	356		M
291.9194	23:05	23:05	0	1.144	2416623	322116	1176	2940	274	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:05	23:05	0	1.144	1925401	253103	711	1777	356		M
291.9194	23:05	23:05	0	1.144	2416623	322116	1176	2940	274	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:20	23:20	0	1.156	820233	185217	711	1777	261		
291.9194	23:20	23:20	0	1.156	1018865	230713	1176	2940	196	0.81(0.65-0.89)	
PCB-52											
289.9224	24:44	24:44	0	1.226	1069584	245010	711	1777	345		
291.9194	24:44	24:44	0	1.226	1345320	310910	1176	2940	264	0.80(0.65-0.89)	
PCB-43											
289.9224	24:52	24:52	0	1.233	2427804	326616	711	1777	459		M
291.9194	24:52	24:52	0	1.233	3002523	411370	1176	2940	350	0.81(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:52	24:52	0	1.233	2427804	326616	711	1777	459		M
291.9194	24:52	24:52	0	1.233	3002523	411370	1176	2940	350	0.81(0.65-0.89)	M
PCB-49											
289.9224	25:09	25:09	0	1.246	2343696	328318	711	1777	462		
291.9194	25:09	25:09	0	1.246	2990612	409201	1176	2940	348	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:09	25:09	0	1.246	2343696	328318	711	1777	462		
291.9194	25:09	25:09	0	1.246	2990612	409201	1176	2940	348	0.78(0.65-0.89)	
PCB-48											
289.9224	25:29	25:29	0	1.263	962302	218018	711	1777	307		
291.9194	25:29	25:29	0	1.263	1186284	257945	1176	2940	219	0.81(0.65-0.89)	
PCB-44											
289.9224	25:44	25:44	0	1.275	3293966	640267	711	1777	901		
291.9194	25:44	25:44	0	1.275	4135816	802229	1176	2940	682	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:44	25:44	0	1.275	3293966	640267	711	1777	901		
291.9194	25:44	25:44	0	1.275	4135816	802229	1176	2940	682	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:44	25:44	0	1.275	3293966	640267	711	1777	901		
291.9194	25:44	25:44	0	1.275	4135816	802229	1176	2940	682	0.80(0.65-0.89)	
PCB-59											
289.9224	26:03	26:03	0	1.291	3979504	618434	711	1777	870		
291.9194	26:03	26:03	0	1.291	5036434	774698	1176	2940	659	0.79(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:03	26:03	0	1.291	3979504	618434	711	1777	870		
291.9194	26:03	26:03	0	1.291	5036434	774698	1176	2940	659	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:03	26:03	0	1.291	3979504	618434	711	1777	870		
291.9194	26:03	26:03	0	1.291	5036434	774698	1176	2940	659	0.79(0.65-0.89)	
PCB-42											
289.9224	26:15	26:15	0	1.301	964132	206265	711	1777	290		
291.9194	26:15	26:15	0	1.301	1194482	258780	1176	2940	220	0.81(0.65-0.89)	
PCB-40											
289.9224	26:45	26:45	0	1.326	2884357	460067	711	1777	647		M
291.9194	26:45	26:45	0	1.326	3799986	603934	1176	2940	514	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:45	26:45	0	1.326	2884357	460067	711	1777	647		M
291.9194	26:45	26:45	0	1.326	3799986	603934	1176	2940	514	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:45	26:45	0	1.326	2884357	460067	711	1777	647		M
291.9194	26:45	26:45	0	1.326	3799986	603934	1176	2940	514	0.76(0.65-0.89)	M
PCB-64											
289.9224	26:57	26:57	0	1.336	1308837	267480	711	1777	376		
291.9194	26:57	26:57	0	1.336	1658461	350454	1176	2940	298	0.79(0.65-0.89)	
PCB-72											
289.9224	27:46	27:46	0	0.827	1273682	276658	711	1777	389		
291.9194	27:46	27:46	0	0.827	1621754	350897	1176	2940	298	0.79(0.65-0.89)	
PCB-68											
289.9224	28:04	28:04	0	0.835	1525442	302398	711	1777	425		
291.9194	28:03	28:04	-1	0.835	1923605	369144	1176	2940	314	0.79(0.65-0.89)	
PCB-57											
289.9224	28:29	28:29	0	0.847	1267898	252136	711	1777	355		
291.9194	28:29	28:29	0	0.847	1605968	329465	1176	2940	280	0.79(0.65-0.89)	
PCB-58											
289.9224	28:44	28:44	0	0.855	1575393	329693	711	1777	464		
291.9194	28:44	28:44	0	0.855	1980011	392330	1176	2940	334	0.80(0.65-0.89)	
PCB-67											
289.9224	28:53	28:53	0	0.860	1644281	304799	711	1777	429		
291.9194	28:53	28:53	0	0.860	1965489	393610	1176	2940	335	0.84(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:09	29:09	0	0.868	1297967	266810	711	1777	375		
291.9194	29:09	29:09	0	0.868	1626645	330093	1176	2940	281	0.80(0.65-0.89)	
PCB-61											
289.9224	29:30	29:30	0	0.878	5735194	665151	711	1777	936		M
291.9194	29:30	29:30	0	0.878	7159653	829476	1176	2940	705	0.80(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:30	29:30	0	0.878	5735194	665151	711	1777	936		M
291.9194	29:30	29:30	0	0.878	7159653	829476	1176	2940	705	0.80(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:30	29:30	0	0.878	5735194	665151	711	1777	936		M
291.9194	29:30	29:30	0	0.878	7159653	829476	1176	2940	705	0.80(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:30	29:30	0	0.878	5735194	665151	711	1777	936		M
291.9194	29:30	29:30	0	0.878	7159653	829476	1176	2940	705	0.80(0.65-0.89)	M
PCB-66											
289.9224	29:49	29:49	0	0.887	1520463	296941	711	1777	418		
291.9194	29:49	29:49	0	0.887	1933128	380551	1176	2940	324	0.79(0.65-0.89)	
PCB-55											
289.9224	29:59	29:59	0	0.892	1590727	326812	711	1777	460		
291.9194	29:59	29:59	0	0.892	1979138	404249	1176	2940	344	0.80(0.65-0.89)	
PCB-56											
289.9224	30:30	30:30	0	0.908	1426965	287222	711	1777	404		
291.9194	30:30	30:30	0	0.908	1780205	355759	1176	2940	303	0.80(0.65-0.89)	
PCB-60											
289.9224	30:42	30:42	0	0.914	1264748	255623	711	1777	360		
291.9194	30:42	30:42	0	0.914	1538193	318880	1176	2940	271	0.82(0.65-0.89)	
PCB-80											
289.9224	31:06	31:06	0	0.925	1581570	306675	711	1777	431		
291.9194	31:05	31:06	-1	0.925	1925624	375815	1176	2940	320	0.82(0.65-0.89)	
PCB-79											
289.9224	32:38	32:38	0	0.971	1548399	275775	711	1777	388		
291.9194	32:38	32:38	0	0.971	1988756	351717	1176	2940	299	0.78(0.65-0.89)	
PCB-78											
289.9224	33:11	33:11	0	0.987	1384468	250799	711	1777	353		
291.9194	33:11	33:11	0	0.987	1755002	318280	1176	2940	271	0.79(0.65-0.89)	
PCB-81											
289.9224	33:38	33:38	0	1.001	1175317	223410	711	1777	314		
291.9194	33:38	33:38	0	1.001	1432356	270865	1176	2940	230	0.82(0.65-0.89)	
PCB-77											
289.9224	34:12	34:12	0	1.001	1274618	223698	711	1777	315		
291.9194	34:12	34:12	0	1.001	1570575	281611	1176	2940	239	0.81(0.65-0.89)	
PCB-104L											
337.9207	25:38	25:38	0	0.813	2249012	480178	163	407	2946		
339.9178	25:38	25:38	0	0.813	1409618	307062	54	135	5686	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:36	28:36	0	1.116	795600	165651	163	407	1016		
339.9178	28:36	28:36	0	1.116	469905	98232	54	135	1819	1.69(1.32-1.78)	
PCB-101L											
337.9207	31:31	31:31	0		1756109	370266	163	407	2272		
339.9178	31:31	31:31	0		1073410	222325	54	135	4117	1.64(1.32-1.78)	
PCB-111L											
337.9207	34:11	34:11	0	1.085	1136871	230287	163	407	1413		
339.9178	34:11	34:11	0	1.085	681532	139516	54	135	2584	1.67(1.32-1.78)	
PCB-123L											
337.9207	36:09	36:09	0	1.147	3053091	600193	2260	5650	266		
339.9178	36:09	36:09	0	1.147	1955011	387865	1730	4325	224	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:29	36:29	0	1.157	3236496	610898	2260	5650	270		
339.9178	36:29	36:29	0	1.157	2020800	386429	1730	4325	223	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:00	37:00	0	1.174	3165137	616904	2260	5650	273		
339.9178	37:00	37:00	0	1.174	2027129	398882	1730	4325	231	1.56(1.32-1.78)	
PCB-105L											
337.9207	37:41	37:41	0	1.195	3142346	598540	2260	5650	265		
339.9178	37:40	37:41	-1	1.195	1967318	377734	1730	4325	218	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:07	39:07	0		3168500	571174	2260	5650	253		
339.9178	39:07	39:07	0		1961613	359960	1730	4325	208	1.62(1.32-1.78)	
PCB-126L											
337.9207	40:45	40:45	0	1.293	3035864	552945	2260	5650	245		
339.9178	40:45	40:45	0	1.293	1895327	352327	1730	4325	204	1.60(1.32-1.78)	
PCB-104											
325.8804	25:40	25:40	0	1.001	1121617	242276	171	427	1417		
327.8775	25:39	25:40	-1	1.000	693117	151861	11	27	13806	1.62(1.32-1.78)	
PCB-96											
325.8804	26:03	26:03	0	1.016	1152886	249725	171	427	1460		
327.8775	26:03	26:03	0	1.016	729633	160964	11	27	14633	1.58(1.32-1.78)	
PCB-103											
325.8804	27:57	27:57	0	1.090	987901	205505	171	427	1202		
327.8775	27:57	27:57	0	1.090	604093	126819	11	27	11529	1.64(1.32-1.78)	
PCB-94											
325.8804	28:11	28:11	0	1.099	823291	176989	171	427	1035		
327.8775	28:11	28:11	0	1.099	492156	105997	11	27	9636	1.67(1.32-1.78)	
PCB-95											
325.8804	28:38	28:38	0	1.117	895546	196192	171	427	1147		
327.8775	28:38	28:38	0	1.117	573882	123048	11	27	11186	1.56(1.32-1.78)	
PCB-93											
325.8804	28:50	28:50	0	1.125	1771507	300773	171	427	1759		
327.8775	28:49	28:50	-1	1.124	1141208	186572	11	27	16961	1.55(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:50	28:50	0	1.125	1771507	300773	171	427	1759		
327.8775	28:49	28:50	-1	1.124	1141208	186572	11	27	16961	1.55(1.32-1.78)	
PCB-98											
325.8804	28:59	28:59	0	1.131	1837210	226694	171	427	1326		M
327.8775	28:59	28:59	0	1.131	1151846	142009	11	27	12910	1.60(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:59	28:59	0	1.131	1837210	226694	171	427	1326		M
327.8775	28:59	28:59	0	1.131	1151846	142009	11	27	12910	1.60(1.32-1.78)	M
PCB-88											
325.8804	29:29	29:29	0	1.150	1773832	191351	171	427	1119		
327.8775	29:29	29:29	0	1.150	1110942	123559	11	27	11233	1.60(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:29	29:29	0	1.150	1773832	191351	171	427	1119		
327.8775	29:29	29:29	0	1.150	1110942	123559	11	27	11233	1.60(1.32-1.78)	
PCB-84											
325.8804	29:44	29:44	0	1.160	787816	157398	171	427	920		
327.8775	29:44	29:44	0	1.160	515333	104456	11	27	9496	1.53(1.32-1.78)	
PCB-89											
325.8804	30:11	30:11	0	1.177	816875	165325	171	427	967		
327.8775	30:11	30:11	0	1.177	521971	107135	11	27	9740	1.56(1.32-1.78)	
PCB-121											
325.8804	30:34	30:34	0	1.192	1415235	287410	171	427	1681		
327.8775	30:34	30:34	0	1.192	898097	187456	11	27	17041	1.58(1.32-1.78)	
PCB-92											
325.8804	30:58	30:58	0	0.857	944947	185240	171	427	1083		
327.8775	30:58	30:58	0	0.857	590809	118588	11	27	10781	1.60(1.32-1.78)	
PCB-90											
325.8804	31:31	31:31	0	1.229	3177552	474172	171	427	2773		
327.8775	31:31	31:31	0	1.229	1984598	296077	11	27	26916	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:31	31:31	0	1.229	3177552	474172	171	427	2773		
327.8775	31:31	31:31	0	1.229	1984598	296077	11	27	26916	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:31	31:31	0	1.229	3177552	474172	171	427	2773		
327.8775	31:31	31:31	0	1.229	1984598	296077	11	27	26916	1.60(1.32-1.78)	
PCB-83											
325.8804	32:07	32:07	0	1.253	1853328	246941	171	427	1444		
327.8775	32:07	32:07	0	1.253	1142385	144263	11	27	13115	1.62(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:07	32:07	0	1.253	1853328	246941	171	427	1444		
327.8775	32:07	32:07	0	1.253	1142385	144263	11	27	13115	1.62(1.32-1.78)	
PCB-112											
325.8804	32:14	32:14	0	1.257	1524879	290992	171	427	1702		
327.8775	32:14	32:14	0	1.257	952493	187609	11	27	17055	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:36	32:36	0	1.272	6691523	710451	171	427	4155		M
327.8775	32:36	32:36	0	1.272	4230019	442134	11	27	40194	1.58(1.32-1.78)	M
PCB-85											
325.8804	33:19	33:19	0	1.300	3419747	383398	171	427	2242		
327.8775	33:20	33:19	1	1.300	2122688	246860	11	27	22442	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:19	33:19	0	1.300	3419747	383398	171	427	2242		
327.8775	33:20	33:19	1	1.300	2122688	246860	11	27	22442	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:19	33:19	0	1.300	3419747	383398	171	427	2242		
327.8775	33:20	33:19	1	1.300	2122688	246860	11	27	22442	1.61(1.32-1.78)	
PCB-110											
325.8804	33:33	33:33	0	1.309	2611596	382123	171	427	2235		
327.8775	33:33	33:33	0	1.309	1648185	233556	11	27	21232	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:33	33:33	0	1.309	2611596	382123	171	427	2235		
327.8775	33:33	33:33	0	1.309	1648185	233556	11	27	21232	1.58(1.32-1.78)	
PCB-82											
325.8804	33:51	33:51	0	1.320	908150	172910	171	427	1011		
327.8775	33:51	33:51	0	1.320	591483	110282	11	27	10026	1.54(1.32-1.78)	
PCB-111											
325.8804	34:12	34:12	0	1.334	1316185	258721	171	427	1513		
327.8775	34:13	34:12	1	1.335	831412	168426	11	27	15311	1.58(1.32-1.78)	
PCB-120											
325.8804	34:40	34:40	0	1.352	1598987	318472	171	427	1862		
327.8775	34:40	34:40	0	1.352	998078	192084	11	27	17462	1.60(1.32-1.78)	
PCB-108											
325.8804	35:49	35:49	0	1.397	3321045	619505	1329	3322	466		
327.8775	35:49	35:49	0	1.397	2117584	401077	1158	2895	346	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:49	35:49	0	1.397	3321045	619505	1329	3322	466		
327.8775	35:49	35:49	0	1.397	2117584	401077	1158	2895	346	1.57(1.32-1.78)	
PCB-107											
325.8804	36:04	36:04	0	1.407	1916439	348244	1329	3322	262		
327.8775	36:04	36:04	0	1.407	1184606	212329	1158	2895	183	1.62(1.32-1.78)	
PCB-123											
325.8804	36:11	36:11	0	1.001	1571017	329405	1329	3322	248		
327.8775	36:11	36:11	0	1.001	977703	201525	1158	2895	174	1.61(1.32-1.78)	
PCB-106											
325.8804	36:18	36:18	0	1.004	1727501	313390	1329	3322	236		
327.8775	36:18	36:18	0	1.004	1105360	204959	1158	2895	177	1.56(1.32-1.78)	
PCB-118											
325.8804	36:30	36:30	0	1.001	1944376	348434	1329	3322	262		
327.8775	36:30	36:30	-1	1.000	1185250	218196	1158	2895	188	1.64(1.32-1.78)	
PCB-122											
325.8804	36:52	36:52	0	1.010	1496488	287743	1329	3322	217		
327.8775	36:52	36:52	0	1.010	945070	186853	1158	2895	161	1.58(1.32-1.78)	
PCB-114											
325.8804	37:02	37:02	0	1.001	1740614	294117	1329	3322	221		
327.8775	37:02	37:02	0	1.001	1087009	194110	1158	2895	168	1.60(1.32-1.78)	
PCB-105											
325.8804	37:41	37:41	0	1.000	1887682	350633	1329	3322	264		
327.8775	37:41	37:41	0	1.000	1181852	214117	1158	2895	185	1.60(1.32-1.78)	
PCB-127											
325.8804	39:09	39:09	0	1.039	1837295	319354	1329	3322	240		
327.8775	39:09	39:09	0	1.039	1133149	198635	1158	2895	172	1.62(1.32-1.78)	
PCB-126											
325.8804	40:47	40:47	0	1.001	1699484	275082	1329	3322	207		
327.8775	40:46	40:47	-1	1.000	1073440	173122	1158	2895	150	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:16	31:16	0	0.790	1732054	371190	43	107	8632		
373.8788	31:16	31:16	0	0.790	1363823	285540	42	105	6799	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:20	38:20	0	0.900	1035931	204169	805	2012	254		
373.8788	38:20	38:20	0	0.900	793715	158223	681	1702	232	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:36	39:36	0		1973184	394684	805	2012	490		
373.8788	39:36	39:36	0		1502381	296089	681	1702	435	1.31(1.05-1.43)	
PCB-167L											
371.8817	42:35	42:35	0	1.076	2466258	465704	805	2012	579		
373.8788	42:35	42:35	-1	1.075	1952074	369080	681	1702	542	1.26(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:44	0	1.105	4864904	620777	805	2012	771		
373.8788	43:44	43:44	0	1.105	3842872	485910	681	1702	714	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:44	43:44	0	1.105	4864904	620777	805	2012	771		
373.8788	43:44	43:44	0	1.105	3842872	485910	681	1702	714	1.27(1.05-1.43)	
PCB-169L											
371.8817	46:58	46:58	0	1.186	2644656	468816	805	2012	582		
373.8788	46:59	46:58	1	1.187	2067504	360396	681	1702	529	1.28(1.05-1.43)	
PCB-155											
359.8415	31:17	31:17	0	1.001	864532	189242	14	35	13517		
361.8385	31:17	31:17	0	1.001	673165	144217	50	125	2884	1.28(1.05-1.43)	
PCB-152											
359.8415	31:31	31:31	0	1.008	871888	181773	14	35	12984		
361.8385	31:31	31:31	0	1.008	673172	137129	50	125	2743	1.30(1.05-1.43)	
PCB-150											
359.8415	31:40	31:40	0	1.013	925534	186507	14	35	13322		
361.8385	31:40	31:40	0	1.013	708149	150539	50	125	3011	1.31(1.05-1.43)	
PCB-136											
359.8415	32:03	32:03	0	1.025	920296	183593	14	35	13114		
361.8385	32:03	32:03	0	1.025	714200	140725	50	125	2815	1.29(1.05-1.43)	
PCB-145											
359.8415	32:20	32:20	0	1.034	873634	177838	14	35	12703		
361.8385	32:20	32:20	0	1.034	672798	134304	50	125	2686	1.30(1.05-1.43)	
PCB-148											
359.8415	33:50	33:50	0	1.082	681328	134776	14	35	9627		
361.8385	33:50	33:50	0	1.082	526495	106967	50	125	2139	1.29(1.05-1.43)	
PCB-135											
359.8415	34:26	34:26	0	1.101	1336956	146883	14	35	10492		M
361.8385	34:26	34:26	0	1.101	1041449	117353	50	125	2347	1.28(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:26	34:26	0	1.101	1336956	146883	14	35	10492		M
361.8385	34:26	34:26	0	1.101	1041449	117353	50	125	2347	1.28(1.05-1.43)	M
PCB-154											
359.8415	34:41	34:41	0	1.109	746737	143010	14	35	10215		
361.8385	34:41	34:41	0	1.109	582387	117315	50	125	2346	1.28(1.05-1.43)	
PCB-144											
359.8415	35:00	35:00	0	1.119	698839	136223	14	35	9730		
361.8385	35:00	35:00	0	1.119	553160	108734	50	125	2175	1.26(1.05-1.43)	
PCB-147											
359.8415	35:22	35:22	0	1.131	2134160	409765	454	1135	903		
361.8385	35:22	35:22	0	1.131	1676276	317942	520	1300	611	1.27(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:22	35:22	0	1.131	2134160	409765	454	1135	903		
361.8385	35:22	35:22	0	1.131	1676276	317942	520	1300	611	1.27(1.05-1.43)	
PCB-134											
359.8415	35:40	35:40	0	1.141	1898702	207696	454	1135	457		
361.8385	35:40	35:40	0	1.141	1479683	162151	520	1300	312	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:40	35:40	0	1.141	1898702	207696	454	1135	457		
361.8385	35:40	35:40	0	1.141	1479683	162151	520	1300	312	1.28(1.05-1.43)	
PCB-139											
359.8415	35:57	35:57	0	1.150	2033970	361028	454	1135	795		
361.8385	35:57	35:57	0	1.150	1622541	284039	520	1300	546	1.25(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:57	35:57	0	1.150	2033970	361028	454	1135	795		
361.8385	35:57	35:57	0	1.150	1622541	284039	520	1300	546	1.25(1.05-1.43)	
PCB-131											
359.8415	36:10	36:10	0	1.157	899926	181529	454	1135	400		
361.8385	36:10	36:10	0	1.157	685737	143881	520	1300	277	1.31(1.05-1.43)	
PCB-142											
359.8415	36:19	36:19	0	1.161	921810	180820	454	1135	398		
361.8385	36:19	36:19	0	1.161	730610	142184	520	1300	273	1.26(1.05-1.43)	
PCB-132											
359.8415	36:38	36:38	0	1.172	874823	165995	454	1135	366		
361.8385	36:38	36:38	0	1.172	687088	134876	520	1300	259	1.27(1.05-1.43)	
PCB-133											
359.8415	37:07	37:07	0	1.187	906082	175426	454	1135	386		
361.8385	37:07	37:07	0	1.187	730095	139028	520	1300	267	1.24(1.05-1.43)	
PCB-165											
359.8415	37:30	37:30	0	0.881	1253691	246705	454	1135	543		
361.8385	37:30	37:30	0	0.881	978028	186864	520	1300	359	1.28(1.05-1.43)	
PCB-146											
359.8415	37:45	37:45	0	0.886	1142924	223252	454	1135	492		
361.8385	37:45	37:45	0	0.886	898236	175159	520	1300	337	1.27(1.05-1.43)	
PCB-161											
359.8415	37:53	37:53	0	0.890	1327435	267845	454	1135	590		
361.8385	37:53	37:53	0	0.890	1048206	215818	520	1300	415	1.27(1.05-1.43)	
PCB-153											
359.8415	38:23	38:23	0	0.901	2654876	393247	454	1135	866		
361.8385	38:23	38:23	0	0.901	2097393	298640	520	1300	574	1.27(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:23	38:23	0	0.901	2654876	393247	454	1135	866		
361.8385	38:23	38:23	0	0.901	2097393	298640	520	1300	574	1.27(1.05-1.43)	
PCB-141											
359.8415	38:34	38:34	0	0.906	1057958	192154	454	1135	423		
361.8385	38:34	38:34	0	0.906	820953	139897	520	1300	269	1.29(1.05-1.43)	
PCB-130											
359.8415	38:59	38:59	0	0.915	838682	166042	454	1135	366		
361.8385	38:59	38:59	0	0.915	652835	130036	520	1300	250	1.28(1.05-1.43)	
PCB-137											
359.8415	39:11	39:11	0	0.920	944651	187073	454	1135	412		
361.8385	39:11	39:11	0	0.920	750609	142330	520	1300	274	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:19	39:19	0	0.923	1301988	252351	454	1135	556		
361.8385	39:19	39:19	0	0.923	1010243	194772	520	1300	375	1.29(1.05-1.43)	
PCB-129											
359.8415	39:38	39:38	0	0.931	4518314	498362	454	1135	1098		M
361.8385	39:38	39:38	0	0.931	3615836	390735	520	1300	751	1.25(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:38	39:38	0	0.931	4518314	498362	454	1135	1098		M
361.8385	39:38	39:38	0	0.931	3615836	390735	520	1300	751	1.25(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:38	39:38	0	0.931	4518314	498362	454	1135	1098		M
361.8385	39:38	39:38	0	0.931	3615836	390735	520	1300	751	1.25(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:38	39:38	0	0.931	4518314	498362	454	1135	1098		M
361.8385	39:38	39:38	0	0.931	3615836	390735	520	1300	751	1.25(1.05-1.43)	M
PCB-158											
359.8415	40:00	40:00	0	0.939	1566084	294553	454	1135	649		
361.8385	40:00	40:00	0	0.939	1184952	224429	520	1300	432	1.32(1.05-1.43)	
PCB-128											
359.8415	40:51	40:51	0	0.959	2339660	297598	454	1135	656		
361.8385	40:51	40:51	0	0.959	1853619	244050	520	1300	469	1.26(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:51	40:51	0	0.959	2339660	297598	454	1135	656		
361.8385	40:51	40:51	0	0.959	1853619	244050	520	1300	469	1.26(1.05-1.43)	
PCB-159											
359.8415	41:50	41:50	0	0.982	1668418	325473	454	1135	717		
361.8385	41:50	41:50	0	0.982	1311713	256598	520	1300	493	1.27(1.05-1.43)	
PCB-162											
359.8415	42:08	42:08	0	0.989	1505411	272771	454	1135	601		
361.8385	42:08	42:08	0	0.989	1191640	222552	520	1300	428	1.26(1.05-1.43)	
PCB-167											
359.8415	42:36	42:36	0	1.000	1379556	265971	454	1135	586		
361.8385	42:36	42:36	0	1.000	1097809	212468	520	1300	409	1.26(1.05-1.43)	
PCB-156											
359.8415	43:46	43:46	0	1.001	2740074	342871	454	1135	755		
361.8385	43:46	43:46	0	1.001	2179219	272602	520	1300	524	1.26(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:46	43:46	0	1.001	2740074	342871	454	1135	755		
361.8385	43:46	43:46	0	1.001	2179219	272602	520	1300	524	1.26(1.05-1.43)	
PCB-169											
359.8415	46:59	46:59	0	1.001	1518319	259936	454	1135	573		
361.8385	46:59	46:59	0	1.001	1184388	199489	520	1300	384	1.28(1.05-1.43)	
PCB-188L											
405.8428	36:59	36:59	0	0.820	1742255	338302	32	80	10572		
407.8398	36:59	36:59	0	0.820	1647875	327554	2	5	163777	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:02	40:02	0	0.888	626970	117880	32	80	3684		
407.8398	40:02	40:02	0	0.888	604340	119476	2	5	59738	1.04(0.89-1.21)	
PCB-180L											
405.8428	45:07	45:07	0		1369453	264708	32	80	8272		
407.8398	45:07	45:07	0		1294621	243980	2	5	121990	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:23	46:23	0	1.028	1229686	234447	32	80	7326		
407.8398	46:23	46:23	0	1.028	1117028	209485	2	5	104743	1.10(0.89-1.21)	
PCB-189L											
405.8428	49:29	49:29	0	1.097	2804409	532071	2725	6812	195		
407.8398	49:29	49:29	0	1.097	2658812	495797	1955	4887	254	1.05(0.89-1.21)	
PCB-188											
393.8025	37:01	37:01	0	1.001	1003640	196036	8	20	24505		
395.7995	37:00	37:01	-1	1.001	942261	187252	2	5	93626	1.07(0.89-1.21)	
PCB-179											
393.8025	37:22	37:22	0	1.011	1062180	214385	8	20	26798		
395.7995	37:22	37:22	0	1.011	972766	191848	2	5	95924	1.09(0.89-1.21)	
PCB-184											
393.8025	37:52	37:52	0	1.024	993924	202447	8	20	25306		
395.7995	37:52	37:52	0	1.024	941380	188861	2	5	94431	1.06(0.89-1.21)	
PCB-176											
393.8025	38:14	38:14	0	1.034	926985	188674	8	20	23584		
395.7995	38:14	38:14	0	1.034	860373	178139	2	5	89070	1.08(0.89-1.21)	
PCB-186											
393.8025	38:42	38:42	0	1.047	1164686	235440	8	20	29430		
395.7995	38:42	38:42	0	1.047	1062677	210355	2	5	105178	1.10(0.89-1.21)	
PCB-178											
393.8025	40:04	40:04	0	1.083	650709	130861	8	20	16358		
395.7995	40:04	40:04	0	1.083	624226	126659	2	5	63330	1.04(0.89-1.21)	
PCB-175											
393.8025	40:42	40:42	0	1.101	700007	140984	8	20	17623		
395.7995	40:42	40:42	0	1.101	646179	126253	2	5	63127	1.08(0.89-1.21)	
PCB-187											
393.8025	40:58	40:58	0	1.108	818298	161223	8	20	20153		
395.7995	40:58	40:58	0	1.108	783357	159242	2	5	79621	1.04(0.89-1.21)	
PCB-182											
393.8025	41:09	41:09	0	1.113	706603	140234	8	20	17529		
395.7995	41:09	41:09	0	1.113	686380	134303	2	5	67152	1.03(0.89-1.21)	
PCB-183											
393.8025	41:34	41:34	0	1.124	1409473	146268	8	20	18284		Ma
395.7995	41:34	41:34	0	1.124	1302900	139634	2	5	69817	1.08(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:34	41:34	0	1.124	1409473	146268	8	20	18284		Ma
395.7995	41:34	41:34	0	1.124	1302900	139634	2	5	69817	1.08(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:50	41:50	0	1.131	731239	136981	8	20	17123		
395.7995	41:50	41:50	0	1.131	674110	126880	2	5	63440	1.08(0.89-1.21)	
PCB-177											
393.8025	42:16	42:16	0	1.143	707564	131893	8	20	16487		
395.7995	42:16	42:16	0	1.143	685939	118984	2	5	59492	1.03(0.89-1.21)	
PCB-181											
393.8025	42:39	42:39	0	1.153	703391	134717	8	20	16840		
395.7995	42:39	42:39	0	1.153	687585	134362	2	5	67181	1.02(0.89-1.21)	
PCB-171											
393.8025	42:52	42:52	0	1.159	1335994	237305	8	20	29663		
395.7995	42:52	42:52	0	1.159	1247306	218019	2	5	109010	1.07(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:52	42:52	0	1.159	1335994	237305	8	20	29663		
395.7995	42:52	42:52	0	1.159	1247306	218019	2	5	109010	1.07(0.89-1.21)	
PCB-172											
393.8025	44:30	44:30	0	0.899	631912	117834	8	20	14729		
395.7995	44:30	44:30	0	0.899	611836	124687	2	5	62344	1.03(0.89-1.21)	
PCB-192											
393.8025	44:45	44:45	0	0.905	1094269	212167	8	20	26521		
395.7995	44:46	44:45	1	0.905	1029788	189417	2	5	94709	1.06(0.89-1.21)	
PCB-180											
393.8025	45:06	45:06	0	0.912	1793852	253450	8	20	31681		
395.7995	45:07	45:06	1	0.912	1688385	240480	2	5	120240	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:06	45:06	0	0.912	1793852	253450	8	20	31681		
395.7995	45:07	45:06	1	0.912	1688385	240480	2	5	120240	1.06(0.89-1.21)	
PCB-191											
393.8025	45:30	45:30	0	0.919	1056067	205691	8	20	25711		
395.7995	45:30	45:30	0	0.919	996805	188009	2	5	94005	1.06(0.89-1.21)	
PCB-170											
393.8025	46:25	46:25	0	0.938	719128	132750	8	20	16594		
395.7995	46:25	46:25	0	0.938	638985	123911	2	5	61956	1.13(0.89-1.21)	
PCB-190											
393.8025	46:55	46:55	0	0.948	1179173	203999	8	20	25500		
395.7995	46:55	46:55	0	0.948	1114067	192014	2	5	96007	1.06(0.89-1.21)	
PCB-189											
393.8025	49:30	49:30	0	1.001	1411108	253373	298	745	850		
395.7995	49:30	49:30	0	1.001	1326627	246546	234	585	1054	1.06(0.89-1.21)	
PCB-202L											
439.8038	42:20	42:20	0	0.821	1207614	234498	11	27	21318		
441.8008	42:21	42:20	1	0.821	1339649	255021	21	52	12144	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:35	51:35	0		1746656	334203	52	130	6427		
441.8008	51:34	51:35	-1		1940382	361144	135	337	2675	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:03	52:03	0	1.009	2151467	403851	52	130	7766		
441.8008	52:03	52:03	0	1.009	2369409	442300	135	337	3276	0.91(0.76-1.02)	
PCB-202											
427.7635	42:23	42:23	0	1.001	643309	126546	99	247	1278		
429.7606	42:23	42:23	0	1.001	688877	138049	31	77	4453	0.93(0.76-1.02)	
PCB-201											
427.7635	43:17	43:17	0	1.022	620421	119602	99	247	1208		
429.7606	43:17	43:17	0	1.022	674930	130052	31	77	4195	0.92(0.76-1.02)	
PCB-204											
427.7635	43:57	43:57	0	1.038	653141	132813	99	247	1342		
429.7606	43:57	43:57	0	1.038	730674	142654	31	77	4602	0.89(0.76-1.02)	
PCB-197											
427.7635	44:11	44:11	0	1.043	684104	129010	99	247	1303		
429.7606	44:11	44:11	0	1.043	782342	154591	31	77	4987	0.87(0.76-1.02)	
PCB-200											
427.7635	44:19	44:19	0	1.047	652920	124224	99	247	1255		
429.7606	44:18	44:19	-1	1.046	720309	140986	31	77	4548	0.91(0.76-1.02)	
PCB-198											
427.7635	47:04	47:04	0	1.112	1127657	140563	99	247	1420		
429.7606	47:05	47:04	1	1.112	1232954	150759	31	77	4863	0.91(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:04	47:04	0	1.112	1127657	140563	99	247	1420		
429.7606	47:05	47:04	1	1.112	1232954	150759	31	77	4863	0.91(0.76-1.02)	
PCB-196											
427.7635	47:44	47:44	0	0.917	516294	100462	99	247	1015		
429.7606	47:44	47:44	0	0.917	563626	108191	31	77	3490	0.92(0.76-1.02)	
PCB-203											
427.7635	47:56	47:56	0	0.921	654340	124285	99	247	1255		
429.7606	47:56	47:56	0	0.921	692773	134944	31	77	4353	0.94(0.76-1.02)	
PCB-195											
427.7635	49:16	49:16	0	0.947	865770	165629	246	615	673		
429.7606	49:16	49:16	0	0.947	950522	173919	214	535	813	0.91(0.76-1.02)	
PCB-194											
427.7635	51:36	51:36	0	0.991	998588	182583	246	615	742		
429.7606	51:36	51:36	0	0.991	1118880	210000	214	535	981	0.89(0.76-1.02)	
PCB-205											
427.7635	52:04	52:04	0	1.000	1169488	221632	246	615	901		
429.7606	52:04	52:04	0	1.000	1276629	238723	214	535	1116	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:00	49:00	0	0.950	1558087	298827	321	802	931		
475.7619	49:00	49:00	0	0.950	2012429	393418	291	727	1352	0.77(0.65-0.89)	
PCB-206L											
473.7648	53:48	53:48	0	1.043	1218714	240130	321	802	748		
475.7619	53:48	53:48	0	1.043	1516150	282035	291	727	969	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:02	49:02	0	1.001	881345	171344	225	562	762		
463.7216	49:01	49:02	-1	1.000	1099294	210643	547	1367	385	0.80(0.65-0.89)	
PCB-207											
461.7246	49:57	49:57	0	1.019	905447	170863	225	562	759		
463.7216	49:56	49:57	-1	1.019	1150795	220896	547	1367	404	0.79(0.65-0.89)	
PCB-206											
461.7246	53:49	53:49	0	1.000	744816	134269	225	562	597		
463.7216	53:49	53:49	0	1.000	961048	181543	547	1367	332	0.78(0.65-0.89)	
PCB-209L											
507.7258	55:24	55:24	0	1.074	1214082	216052	79	197	2735		
509.7229	55:25	55:24	1	1.074	1735246	310652	69	172	4502	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:26	55:26	0	1.001	704264	126213	57	142	2214		
497.6826	55:26	55:26	0	1.001	951736	167589	64	160	2619	0.74(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61CV1668CS3_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
 Lims ID: WDMCCV
 Client ID:
 Sample Type: WDMCCV
 Inject. Date: 16-Jul-2024 00:00:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Xcalibur_System Instrument ID: D2D
 Sublist: chrom-PCBs_D2D*sub2
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 16-Jul-2024 02:04:41 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1621

First Level Reviewer: V4XA Date: 16-Jul-2024 02:04:41

Start Cal Date: 31-May-2024 14:36:00

End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:39	5	15	0.7253	0.7285	0.717 - 0.7472
PCB-3L		13:43	13:47	4	15	0.8606	0.8626	0.849 - 0.8798
PCB-1	L	11:35	11:39	4		1.0011	1.0000	0.995 - 1.0085
PCB-2		13:34	13:37	3		0.9885	0.9876	0.985 - 0.9925
PCB-3	L	13:44	13:48	4		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	14:02	3	15	0.8771	0.8782	0.865 - 0.8956
PCB-9L		15:57	15:59	2		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:49	2		1.1991	1.1986	1.192 - 1.1989
PCB-15L		19:52	19:53	1	15	1.2459	1.2443	1.233 - 1.2530
PCB-4	L	14:00	14:03	3		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:13	3		1.0132	1.0131	1.010 - 1.0168
PCB-9		15:58	15:59	2		1.1421	1.1396	1.135 - 1.1415
PCB-7		16:08	16:09	2		1.1534	1.1508	1.147 - 1.1538
PCB-6		16:22	16:24	2		1.1703	1.1686	1.164 - 1.1706
PCB-5		16:41	16:43	2		1.1929	1.1911	1.186 - 1.1926
PCB-8		16:48	16:50	2		1.2013	1.1995	1.194 - 1.2008
PCB-14		18:26	18:26	1		0.9278	0.9273	0.926 - 0.9305
PCB-11		19:16	19:17	1		0.9702	0.9696	0.968 - 0.9725
PCB-12/13		19:34	19:35	2		0.9848	0.9855	0.983 - 0.9875
PCB-15	L	19:53	19:54	1		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:07	2	15	0.8402	0.8417	0.831 - 0.8547
PCB-32L		20:20	20:20	1		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:35	-1		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:53	-2		1.0130	1.0130	1.006 - 1.0201
PCB-37L		26:54	26:53	-1	15	1.1902	1.1902	1.178 - 1.1995

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-19	L	17:06	17:08	2		1.0008	1.0008	0.996 - 1.0058
PCB-18/30		18:57	18:55	-1		1.1085	1.1052	1.104 - 1.1093
PCB-17		19:23	19:24	1		1.1347	1.1328	1.129 - 1.1352
PCB-27		19:37	19:37	1		1.1478	1.1459	1.141 - 1.1471
PCB-24		19:44	19:44	1		1.1547	1.1528	1.148 - 1.1542
PCB-16		19:51	19:52	1		1.1617	1.1605	1.156 - 1.1621
PCB-32		20:22	20:22	1		1.1917	1.1897	1.185 - 1.1908
PCB-34		21:37	21:36	-1		1.2654	1.2618	1.257 - 1.2623
PCB-23		21:47	21:45	-1		1.2744	1.2708	1.266 - 1.2715
PCB-26/29		22:06	22:04	-1		1.2931	1.2895	1.282 - 1.2915
PCB-25		22:19	22:18	0		0.8293	0.8297	0.829 - 0.8325
PCB-31		22:38	22:37	-1		0.8412	0.8411	0.840 - 0.8438
PCB-20/28		22:56	22:55	-1		0.8526	0.8526	0.851 - 0.8568
PCB-21/33		23:06	23:05	-1		0.8588	0.8587	0.858 - 0.8637
PCB-22		23:33	23:33	0		0.8754	0.8759	0.875 - 0.8786
PCB-36		25:07	25:05	-2		0.9334	0.9329	0.932 - 0.9352
PCB-39		25:28	25:27	-1		0.9467	0.9467	0.945 - 0.9483
PCB-38		26:03	26:01	-2		0.9681	0.9677	0.966 - 0.9695
PCB-35		26:31	26:30	-1		0.9857	0.9857	0.984 - 0.9875
PCB-37	L	26:55	26:54	0		1.0005	1.0010	0.999 - 1.0024
PCB-54L		20:10	20:11	1	15	0.8149	0.8168	0.811 - 0.8247
PCB-52L		24:45	24:42	-2		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:36	-4		0.9707	0.9703	0.969 - 0.9718
PCB-81L		33:40	33:36	-3	15	1.3604	1.3601	1.351 - 1.3641
PCB-77L		34:13	34:11	-2	15	1.3832	1.3834	1.373 - 1.3867
PCB-54	L	20:12	20:12	1		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:21	-1		1.1097	1.1077	1.102 - 1.1106
PCB-45/51		23:06	23:05	-1		1.1459	1.1438	1.137 - 1.1453
PCB-46		23:20	23:20	1		1.1573	1.1565	1.153 - 1.1576
PCB-52		24:46	24:44	-2		1.2284	1.2256	1.222 - 1.2263
PCB-43/73		24:55	24:52	-2		1.2353	1.2325	1.230 - 1.2346
PCB-49/69		25:12	25:09	-3		1.2499	1.2464	1.242 - 1.2499
PCB-48		25:32	25:29	-3		1.2665	1.2629	1.259 - 1.2636
PCB-44/47/65		25:47	25:44	-3		1.2785	1.2750	1.269 - 1.2770
PCB-59/62/75		26:05	26:03	-1		1.2931	1.2908	1.284 - 1.2919
PCB-42		26:17	26:15	-1		1.3033	*1.3009	1.296 - 1.3007
PCB-40/41/71		26:47	26:45	-1		1.3280	*1.3256	1.317 - 1.3250
PCB-64		27:00	26:57	-2		1.3388	*1.3358	1.331 - 1.3355
PCB-72		27:50	27:46	-4		0.8271	0.8265	0.826 - 0.8291
PCB-68		28:07	28:04	-3		0.8354	0.8353	0.835 - 0.8375
PCB-57		28:33	28:29	-4		0.8480	0.8474	0.847 - 0.8500
PCB-58		28:47	28:44	-3		0.8552	0.8550	0.854 - 0.8574
PCB-67		28:57	28:53	-4		0.8601	0.8596	0.859 - 0.8620
PCB-63		29:13	29:09	-3		0.8677	0.8676	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:30	-3		0.8780	0.8779	0.875 - 0.8810
PCB-66		29:52	29:49	-3		0.8875	0.8874	0.886 - 0.8894

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-55		30:02	29:59	-2		0.8920	0.8923	0.891 - 0.8943
PCB-56		30:32	30:30	-2		0.9072	0.9075	0.907 - 0.9098
PCB-60		30:45	30:42	-3		0.9137	0.9136	0.913 - 0.9158
PCB-80		31:10	31:06	-4		0.9259	0.9254	0.924 - 0.9268
PCB-79		32:42	32:38	-4		0.9715	0.9711	0.970 - 0.9726
PCB-78		33:15	33:11	-4		0.9878	0.9874	0.986 - 0.9890
PCB-81	T	33:41	33:38	-3		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:12	-2		1.0007	1.0007	0.999 - 1.0019
PCB-104L		25:42	25:38	-3	15	0.8129	0.8134	0.810 - 0.8199
PCB-95L		28:40	28:36	-3		1.1155	1.1157	1.112 - 1.1179
PCB-101L		31:36	31:31	-4		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:11	-6		1.0850	1.0848	1.079 - 1.0891
PCB-123L		36:15	36:09	-5	15	1.1469	1.1470	1.141 - 1.1511
PCB-118L		36:34	36:29	-5	15	1.1573	1.1575	1.151 - 1.1614
PCB-114L		37:06	37:00	-5	15	1.1739	1.1742	1.168 - 1.1780
PCB-105L		37:44	37:41	-3	15	1.1943	1.1954	1.188 - 1.1989
PCB-127L		39:13	39:07	-5		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:45	-4	15	1.2917	1.2930	1.285 - 1.2956
PCB-104	L	25:42	25:40	-2		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:03	-1		1.0149	1.0160	1.013 - 1.0195
PCB-103		28:01	27:57	-4		1.0907	1.0902	1.087 - 1.0912
PCB-94		28:14	28:11	-3		1.0991	1.0992	1.097 - 1.1003
PCB-95		28:41	28:38	-3		1.1165	1.1167	1.113 - 1.1193
PCB-93/100		28:54	28:50	-4		1.1250	1.1246	1.120 - 1.1267
PCB-98/102		29:03	28:59	-4		1.1310	1.1306	1.127 - 1.1336
PCB-88/91		29:33	29:29	-3		1.1499	1.1501	1.143 - 1.1505
PCB-84		29:46	29:44	-1		1.1584	1.1595	1.157 - 1.1603
PCB-89		30:15	30:11	-3		1.1773	1.1775	1.175 - 1.1786
PCB-121		30:40	30:34	-5		1.1937	*1.1925	1.188 - 1.1922
PCB-92		31:02	30:58	-4		0.8564	0.8566	0.856 - 0.8589
PCB-90/101/113		31:37	31:31	-5		1.2306	1.2294	1.224 - 1.2307
PCB-83/99		32:12	32:07	-4		1.2535	*1.2528	1.245 - 1.2525
PCB-112		32:19	32:14	-5		1.2580	1.2573	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:36	-5		1.2724	1.2718	1.265 - 1.2756
PCB-85/116/117		33:25	33:19	-5		1.3008	1.2997	1.293 - 1.3007
PCB-110/115		33:36	33:33	-2		1.3078	1.3086	1.303 - 1.3092
PCB-82		33:54	33:51	-3		1.3198	*1.3201	1.316 - 1.3194
PCB-111		34:19	34:12	-6		1.3357	*1.3341	1.329 - 1.3330
PCB-120		34:46	34:40	-5		1.3531	*1.3520	1.348 - 1.3514
PCB-108/124		35:54	35:49	-4		1.3975	*1.3973	1.390 - 1.3967
PCB-107		36:09	36:04	-5		1.4072	*1.4065	1.401 - 1.4049
PCB-123	T	36:16	36:11	-5		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:18	-4		1.0036	1.0040	1.003 - 1.0057
PCB-118	T	36:35	36:30	-4		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:52	-4		1.0101	1.0105	1.009 - 1.0117
PCB-114	T	37:07	37:02	-4		1.0004	1.0007	0.999 - 1.0018

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-105	T	37:46	37:41	-4		1.0007	1.0003	0.999 - 1.0018
PCB-127		39:14	39:09	-5		1.0397	1.0391	1.037 - 1.0399
PCB-126	T/L	40:51	40:47	-4		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:16	-6	15	0.7904	0.7895	0.787 - 0.7951
PCB-153L		38:27	38:20	-7		0.9005	0.9000	0.899 - 0.9028
PCB-138L		39:41	39:36	-5		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:35	-6	15	1.0759	1.0757	1.071 - 1.0792
PCB-156L/157L		43:51	43:44	-7	15	1.1050	1.1046	1.100 - 1.1084
PCB-169L		47:05	46:58	-6	15	1.1862	1.1862	1.184 - 1.1864
PCB-155	L	31:24	31:17	-6		1.0008	1.0008	0.998 - 1.0031
PCB-152		31:35	31:31	-4		1.0069	1.0082	1.006 - 1.0096
PCB-150		31:45	31:40	-4		1.0122	1.0131	1.011 - 1.0144
PCB-136		32:07	32:03	-3		1.0236	1.0254	1.024 - 1.0268
PCB-145		32:24	32:20	-4		1.0330	1.0344	1.033 - 1.0358
PCB-148		33:56	33:50	-5		1.0816	1.0822	1.080 - 1.0830
PCB-135/151		34:31	34:26	-5		1.1004	1.1014	1.099 - 1.1038
PCB-154		34:46	34:41	-5		1.1085	1.1092	1.106 - 1.1107
PCB-144		35:05	35:00	-5		1.1183	1.1194	1.117 - 1.1199
PCB-147/149		35:27	35:22	-5		1.1301	1.1312	1.127 - 1.1326
PCB-134/143		35:45	35:40	-4		1.1394	1.1409	1.136 - 1.1409
PCB-139/140		36:03	35:57	-5		1.1490	1.1501	1.146 - 1.1515
PCB-131		36:15	36:10	-4		1.1553	1.1568	1.154 - 1.1571
PCB-142		36:23	36:19	-4		1.1599	1.1615	1.159 - 1.1621
PCB-132		36:42	36:38	-3		1.1700	1.1720	1.168 - 1.1728
PCB-133		37:13	37:07	-6		1.1863	1.1871	1.184 - 1.1872
PCB-165		37:37	37:30	-6		0.8808	0.8806	0.880 - 0.8825
PCB-146		37:52	37:45	-6		0.8867	0.8864	0.886 - 0.8882
PCB-161		37:59	37:53	-6		0.8897	0.8895	0.889 - 0.8914
PCB-153/168		38:29	38:23	-6		0.9014	0.9012	0.900 - 0.9040
PCB-141		38:40	38:34	-5		0.9054	0.9056	0.905 - 0.9075
PCB-130		39:04	38:59	-4		0.9150	0.9154	0.915 - 0.9172
PCB-137		39:18	39:11	-6		0.9202	0.9201	0.920 - 0.9224
PCB-164		39:25	39:19	-5		0.9230	0.9232	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:38	-5		0.9304	0.9306	0.930 - 0.9349
PCB-158		40:06	40:00	-6		0.9393	0.9392	0.939 - 0.9409
PCB-128/166		40:57	40:51	-6		0.9590	0.9590	0.958 - 0.9617
PCB-159		41:58	41:50	-7		0.9828	0.9824	0.982 - 0.9839
PCB-162		42:15	42:08	-7		0.9895	0.9892	0.988 - 0.9907
PCB-167	T	42:43	42:36	-7		1.0006	1.0003	0.999 - 1.0016
PCB-156/157	T	43:53	43:46	-6		1.0006	1.0009	0.999 - 1.0025
PCB-169	T/L	47:06	46:59	-6		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	36:59	-6	15	0.8198	0.8197	0.817 - 0.8243
PCB-178L		40:09	40:02	-6		0.8875	0.8875	0.884 - 0.8916
PCB-180L		45:15	45:07	-8		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:23	-6	15	1.0276	1.0282	1.024 - 1.0317
PCB-189L		49:37	49:29	-8	15	1.0965	1.0967	1.093 - 1.1000

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-188	L	37:07	37:01	-6		1.0007	1.0011	1.000 - 1.0022
PCB-179		37:27	37:22	-4		1.0096	1.0107	1.009 - 1.0115
PCB-184		37:59	37:52	-7		1.0241	1.0238	1.023 - 1.0254
PCB-176		38:20	38:14	-5		1.0333	1.0341	1.033 - 1.0351
PCB-186		38:48	38:42	-5		1.0457	1.0465	1.045 - 1.0476
PCB-178		40:10	40:04	-6		1.0830	1.0835	1.081 - 1.0837
PCB-175		40:48	40:42	-6		1.1000	1.1006	1.098 - 1.1008
PCB-187		41:05	40:58	-7		1.1074	1.1077	1.106 - 1.1082
PCB-182		41:17	41:09	-7		1.1127	1.1130	1.111 - 1.1137
PCB-183/185		41:42	41:34	-7		1.1241	1.1240	1.123 - 1.1260
PCB-174		41:56	41:50	-6		1.1305	1.1311	1.129 - 1.1313
PCB-177		42:22	42:16	-6		1.1422	1.1429	1.140 - 1.1430
PCB-181		42:45	42:39	-6		1.1524	1.1532	1.151 - 1.1535
PCB-171/173		42:58	42:52	-6		1.1585	1.1592	1.156 - 1.1602
PCB-172		44:37	44:30	-7		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:45	-8		0.9049	0.9046	0.904 - 0.9060
PCB-180/193		45:14	45:06	-8		0.9117	0.9115	0.911 - 0.9130
PCB-191		45:37	45:30	-7		0.9194	0.9195	0.919 - 0.9209
PCB-170		46:31	46:25	-6		0.9377	0.9381	0.937 - 0.9392
PCB-190		47:02	46:55	-7		0.9481	0.9482	0.948 - 0.9496
PCB-189	T/L	49:38	49:30	-7		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:20	-7	15	0.8211	0.8207	0.819 - 0.8249
PCB-194L		51:43	51:35	-7		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:03	-8	15	1.0092	1.0089	1.004 - 1.0138
PCB-202	L	42:29	42:23	-6		1.0006	1.0009	0.999 - 1.0027
PCB-201		43:24	43:17	-7		1.0223	1.0224	1.020 - 1.0237
PCB-204		44:05	43:57	-7		1.0381	1.0382	1.036 - 1.0388
PCB-197		44:19	44:11	-8		1.0437	1.0435	1.042 - 1.0445
PCB-200		44:25	44:19	-6		1.0462	1.0466	1.045 - 1.0473
PCB-198/199		47:12	47:04	-7		1.1115	1.1117	1.109 - 1.1132
PCB-196		47:53	47:44	-8		0.9175	0.9172	0.917 - 0.9189
PCB-203		48:05	47:56	-8		0.9212	0.9210	0.921 - 0.9226
PCB-195		49:24	49:16	-7		0.9465	0.9467	0.946 - 0.9481
PCB-194		51:44	51:36	-8		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:04	-8		1.0005	1.0005	0.999 - 1.0013
PCB-208L		49:08	49:00	-8	15	0.9503	0.9499	0.947 - 0.9534
PCB-206L		53:56	53:48	-8	15	1.0431	1.0429	1.038 - 1.0472
PCB-208	L	49:10	49:02	-8		1.0005	1.0005	0.999 - 1.0013
PCB-207		50:05	49:57	-8		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:49	-8		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:24	-10	15	1.0748	1.0739	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:26	-9		1.0002	1.0007	0.999 - 1.0012

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

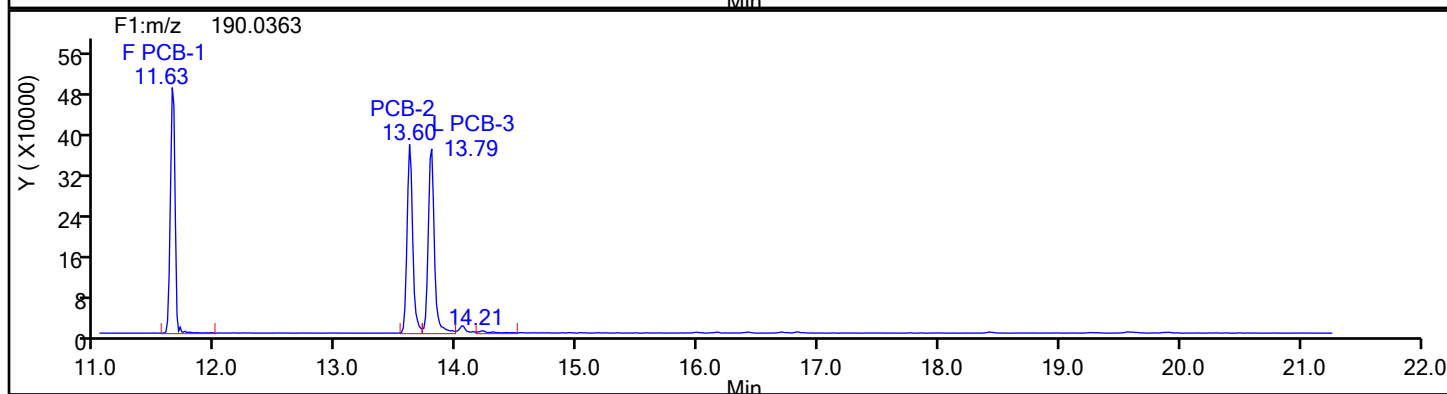
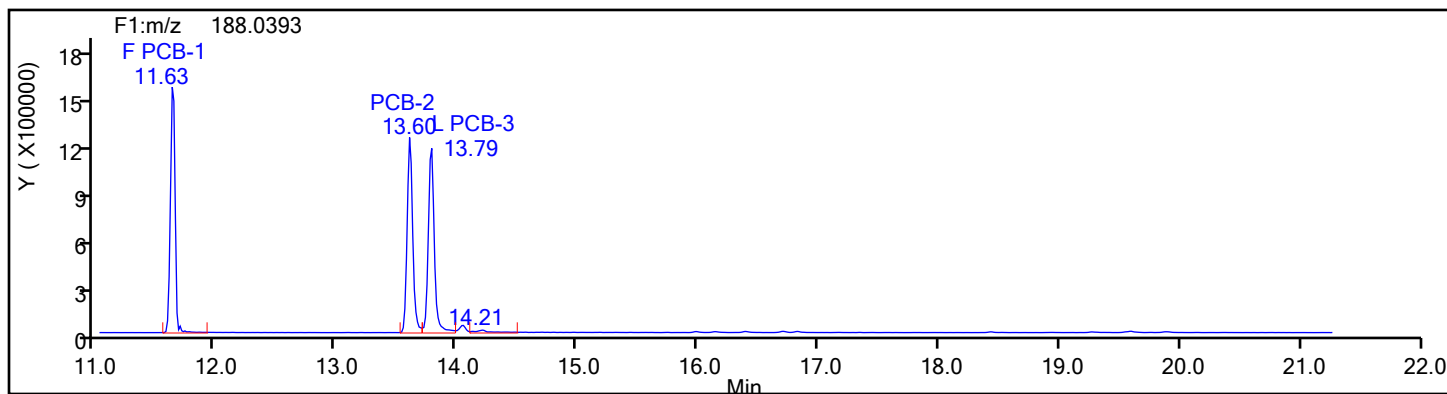
Worklist#: 88780

Sample Line#: 1

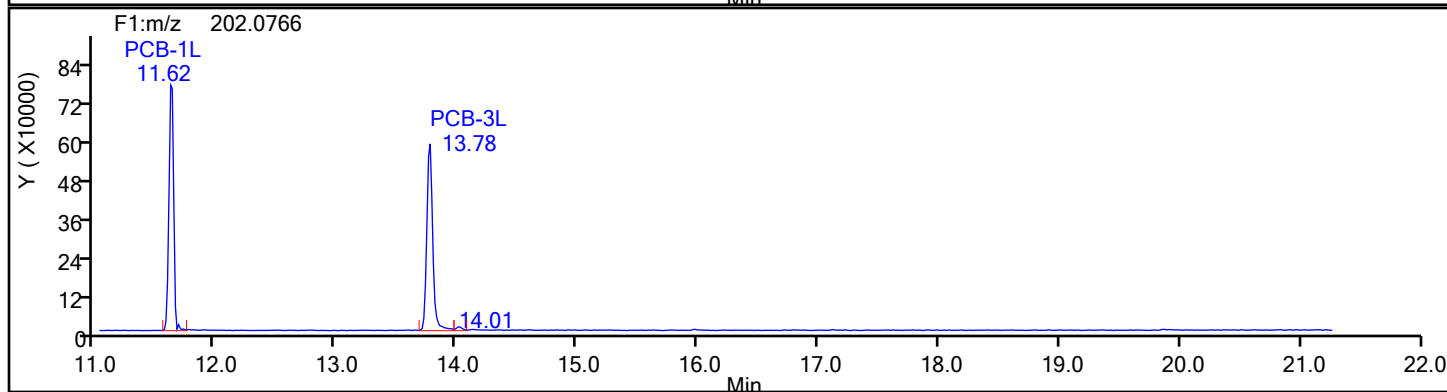
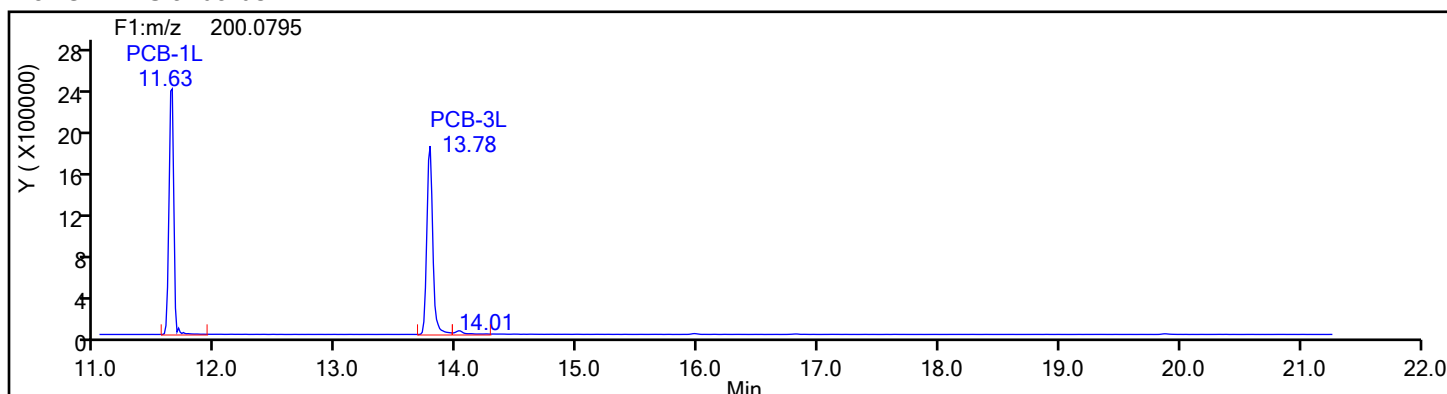
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

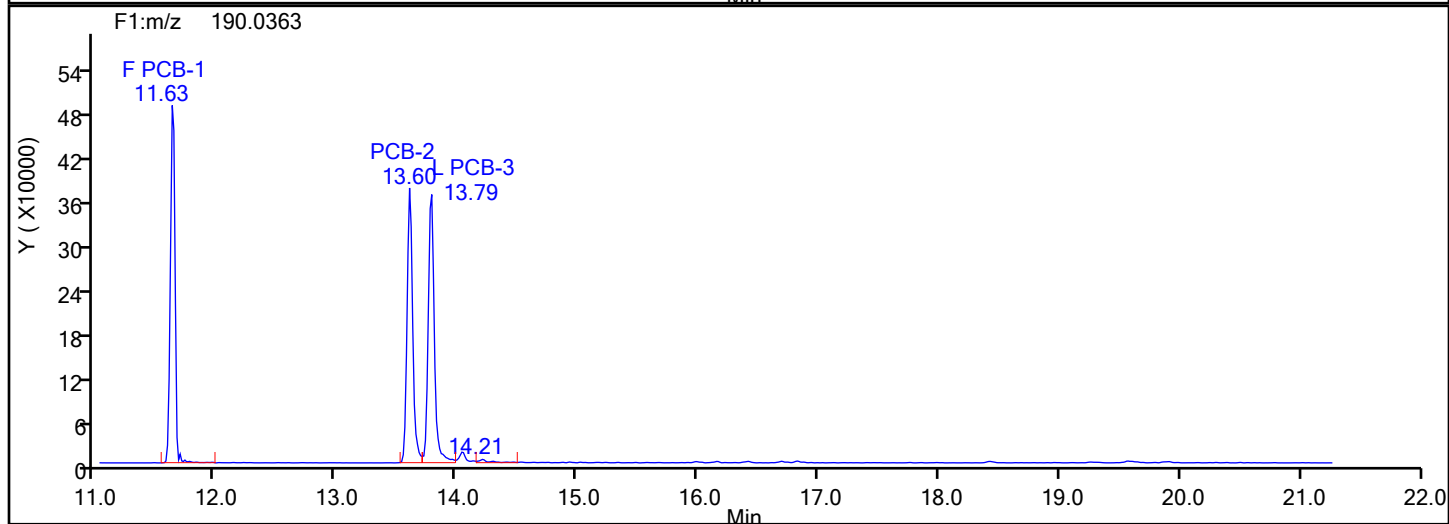
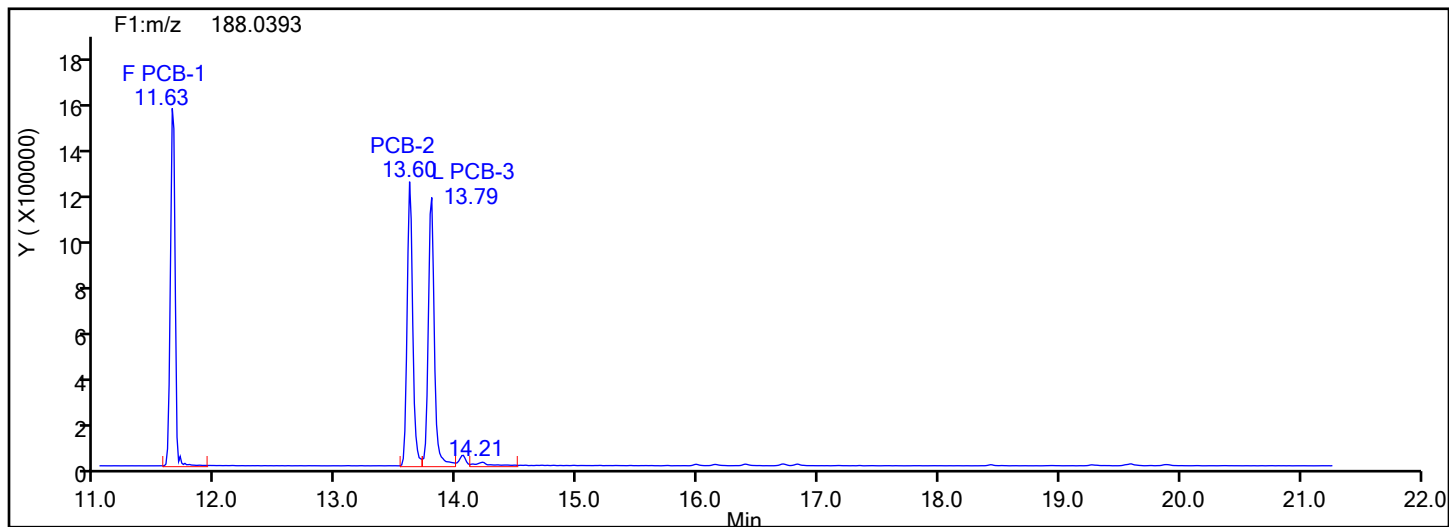
Worklist#: 88780

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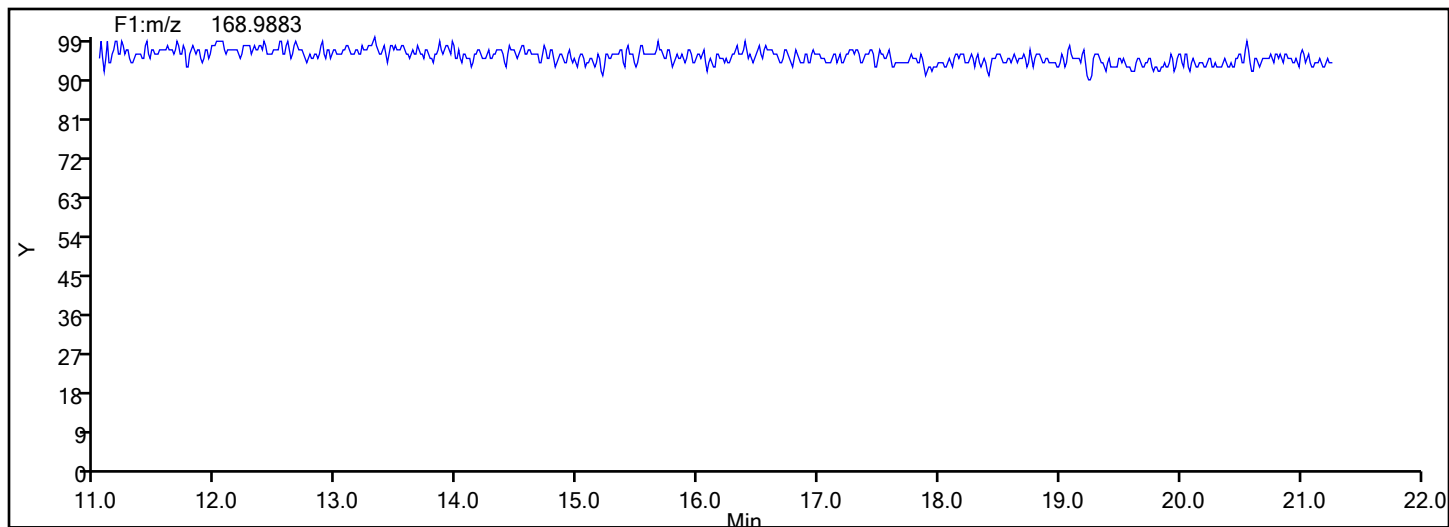
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

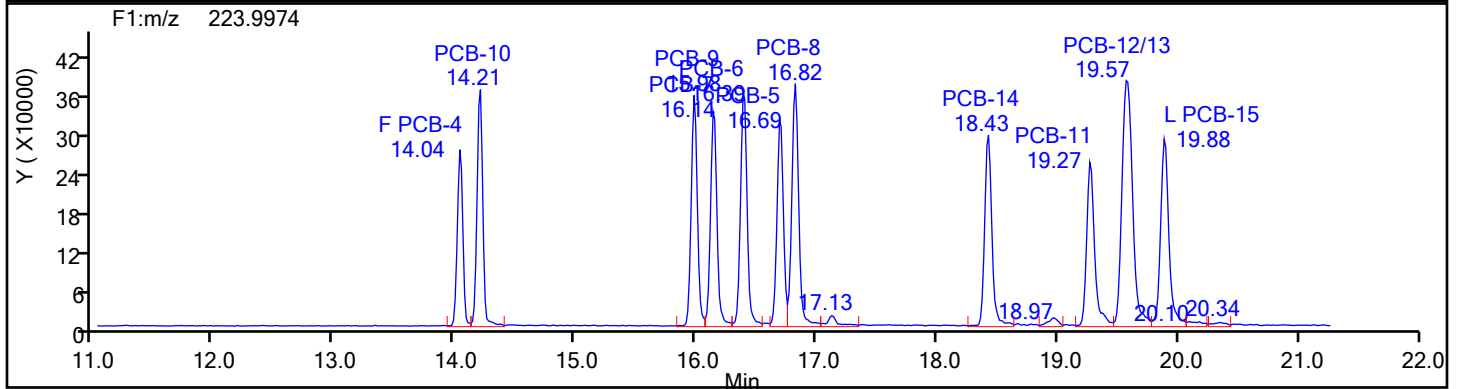
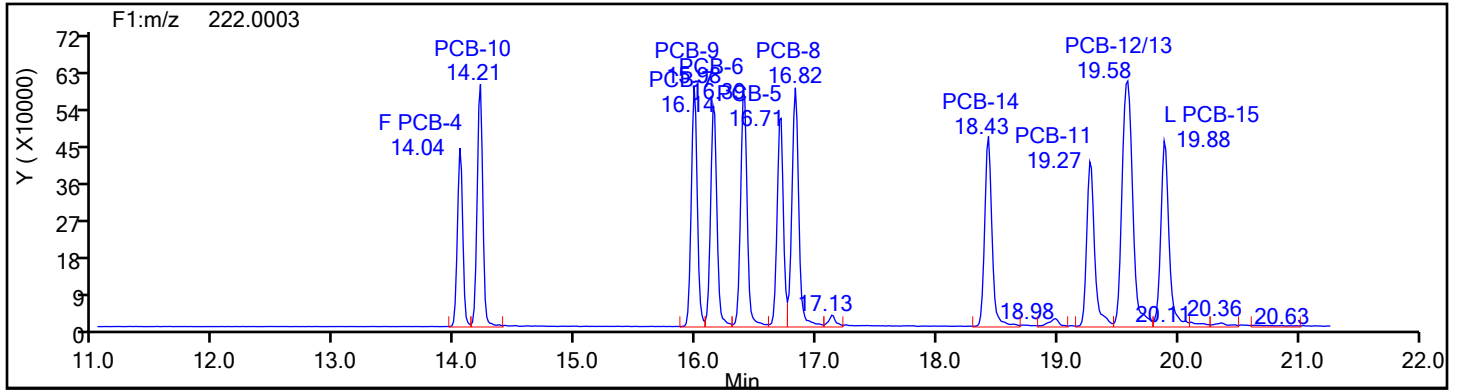
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Sample Line#: 1

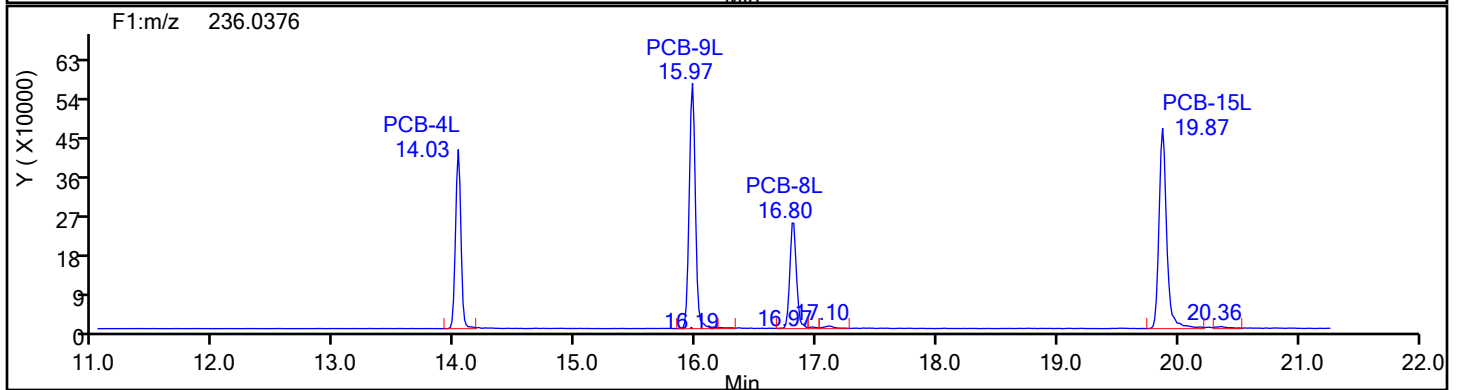
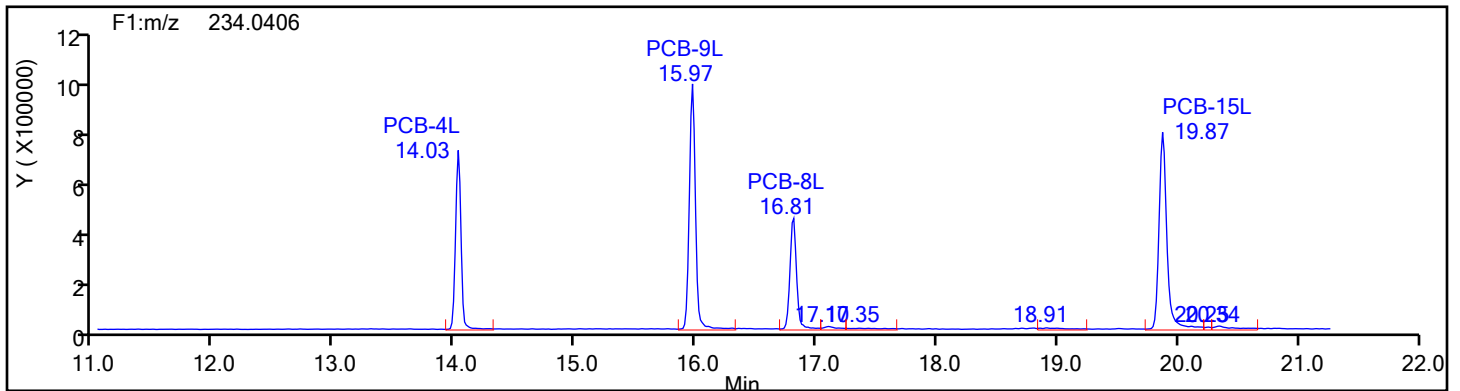
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

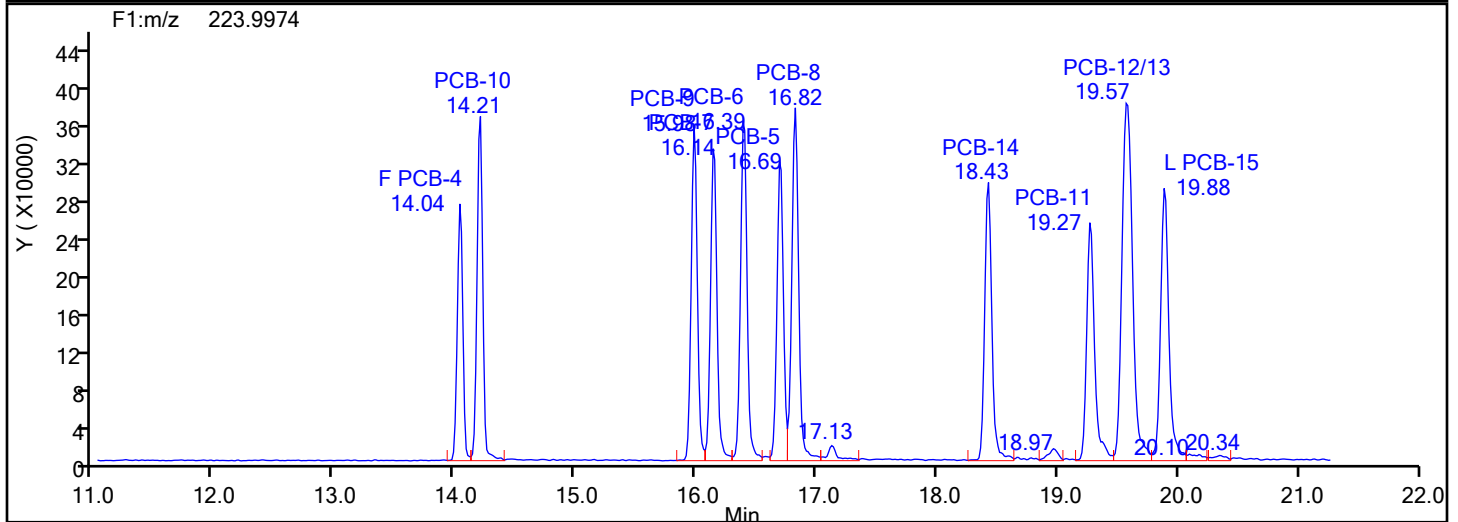
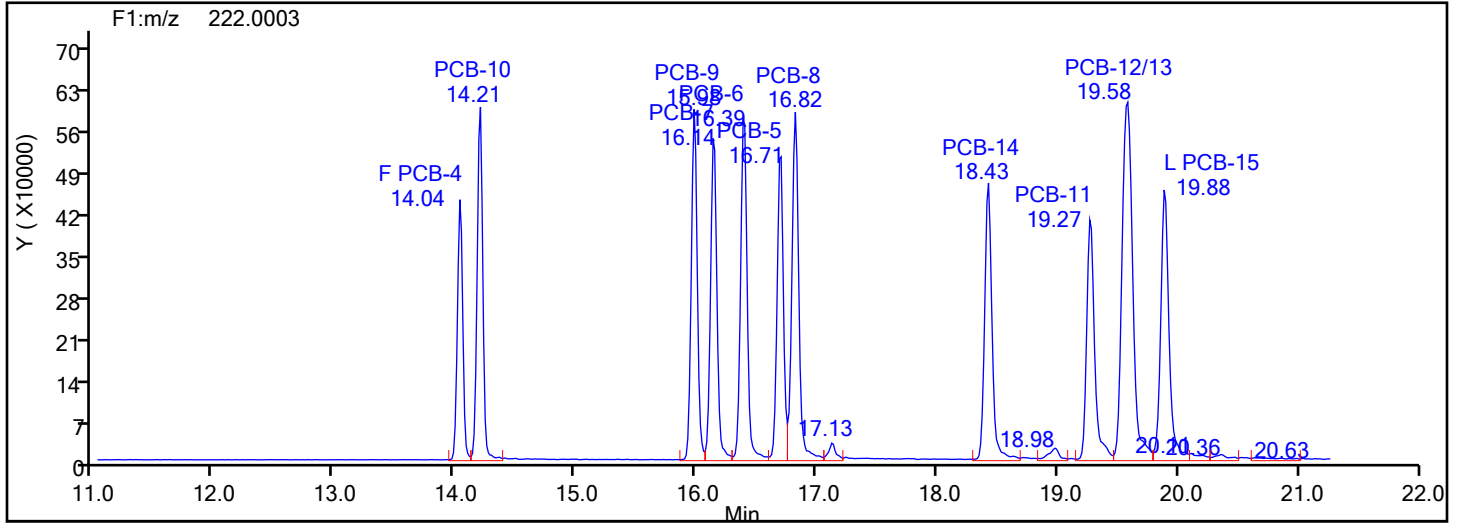


DiPCB F1 Standards

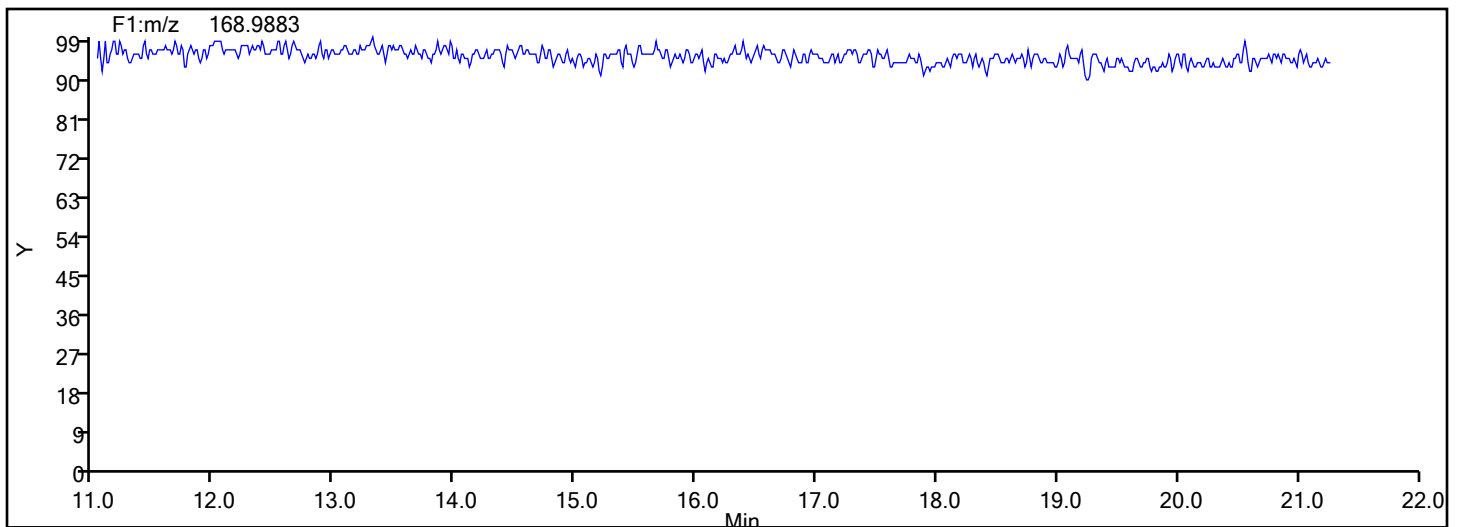


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
DiPCB F1

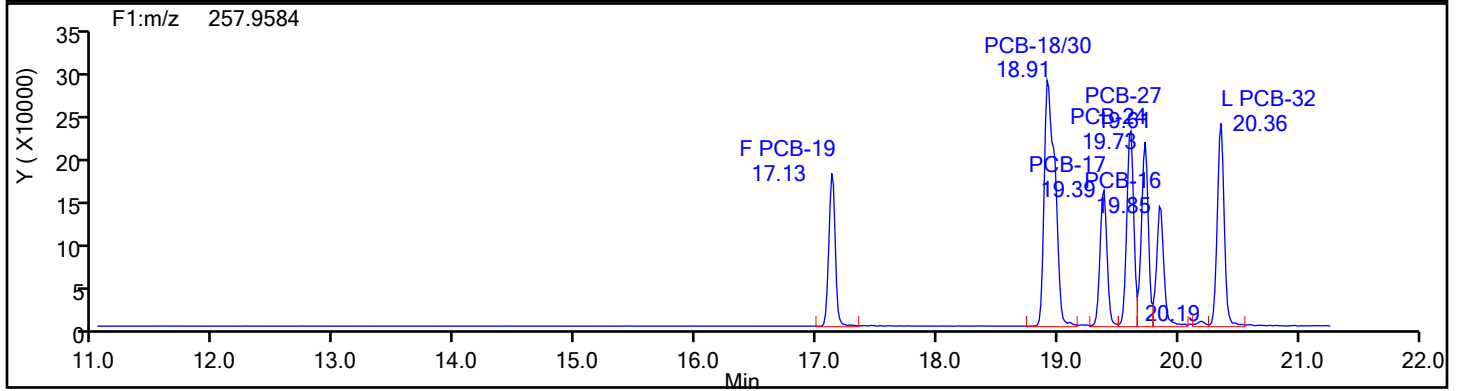
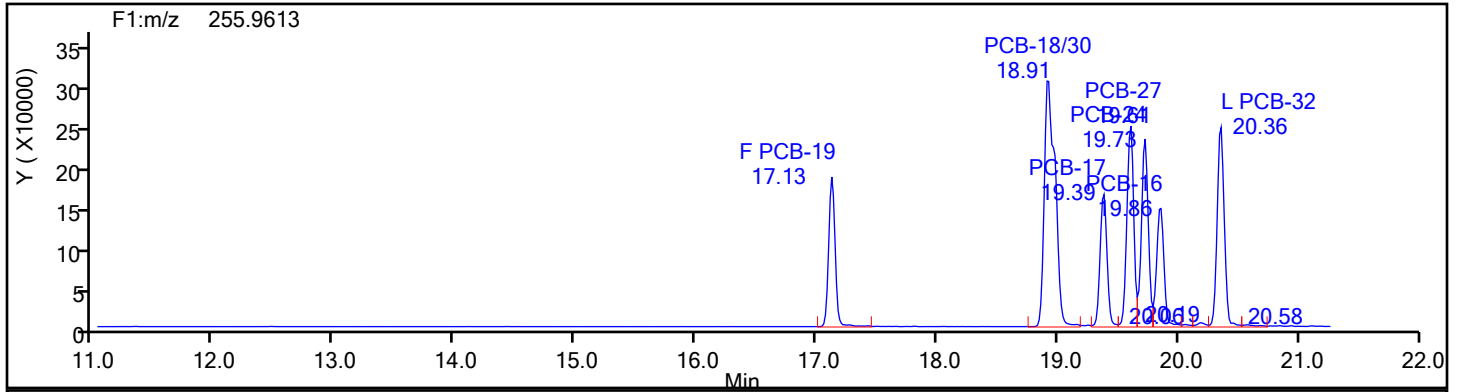


DiPCB F1 Lock Mass

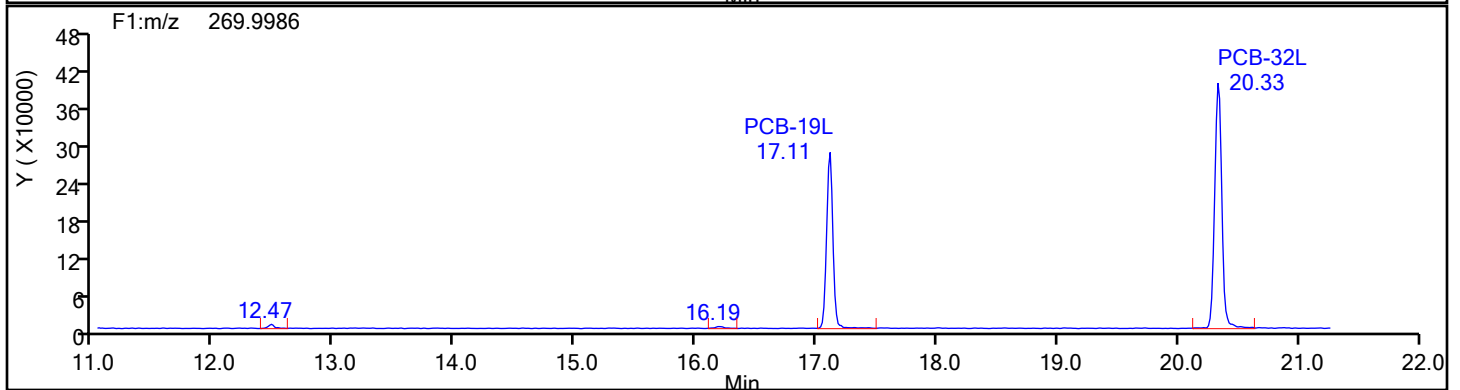
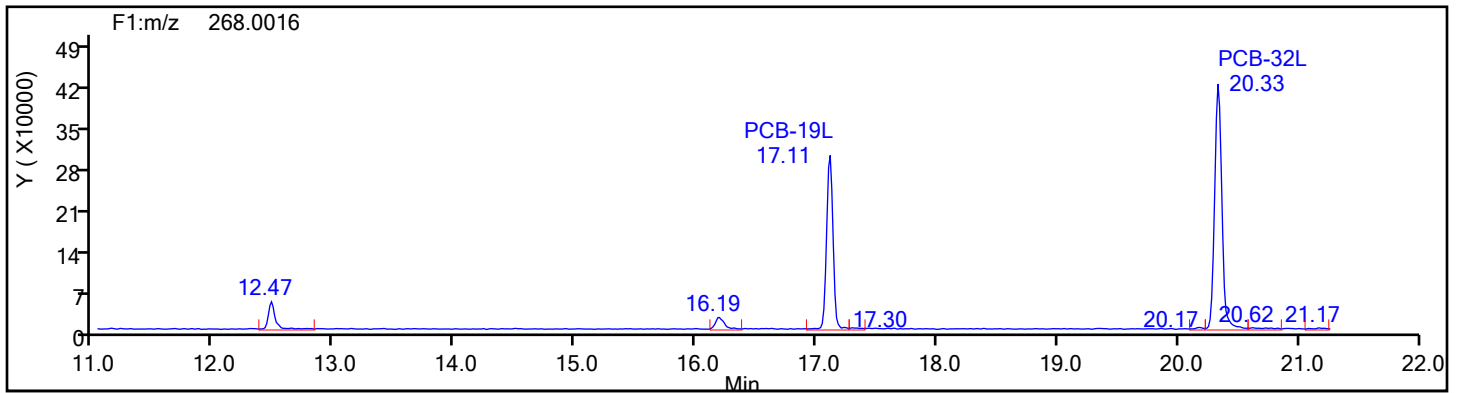


Eurofins Knoxville

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Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

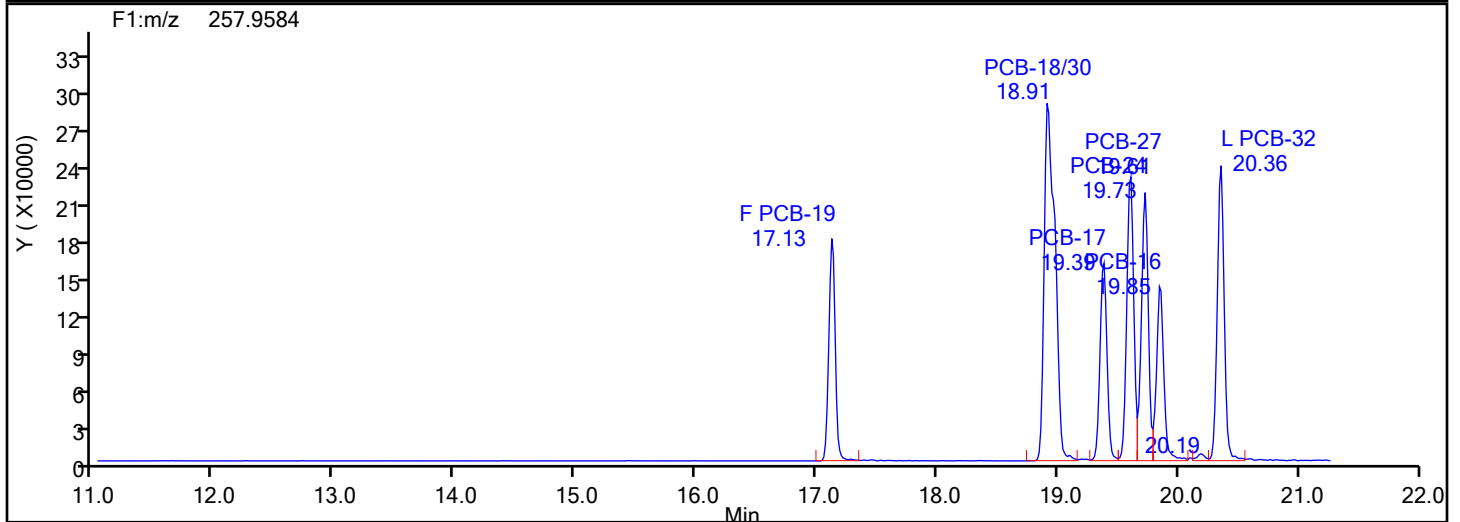
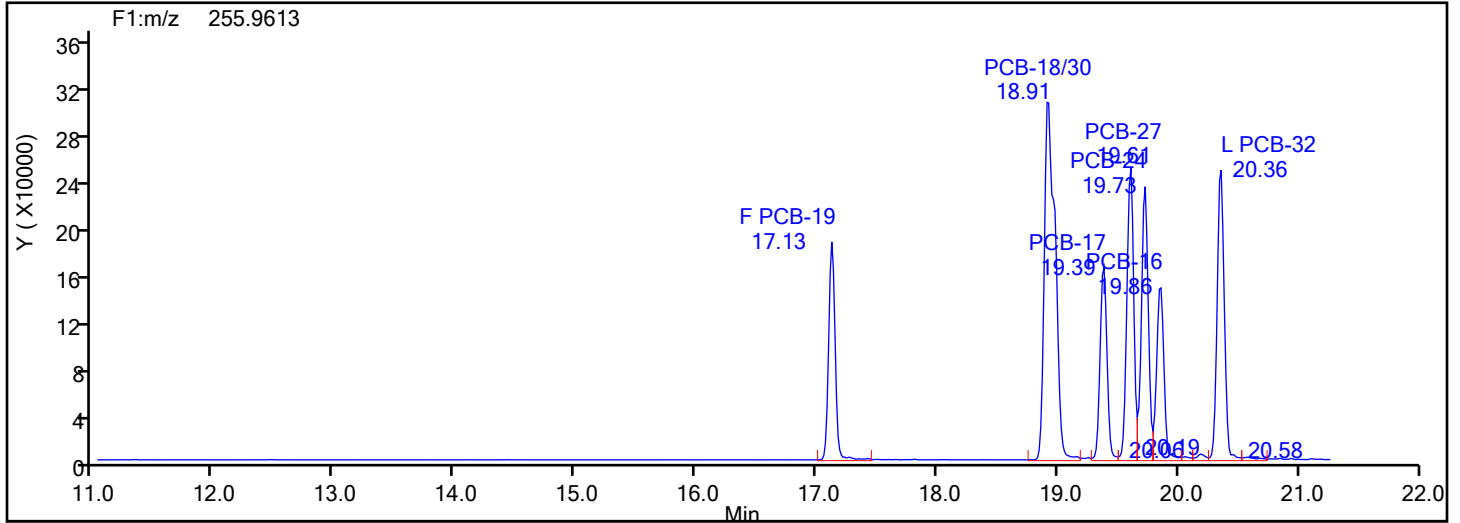
Worklist#: 88780

Sample Line#: 1

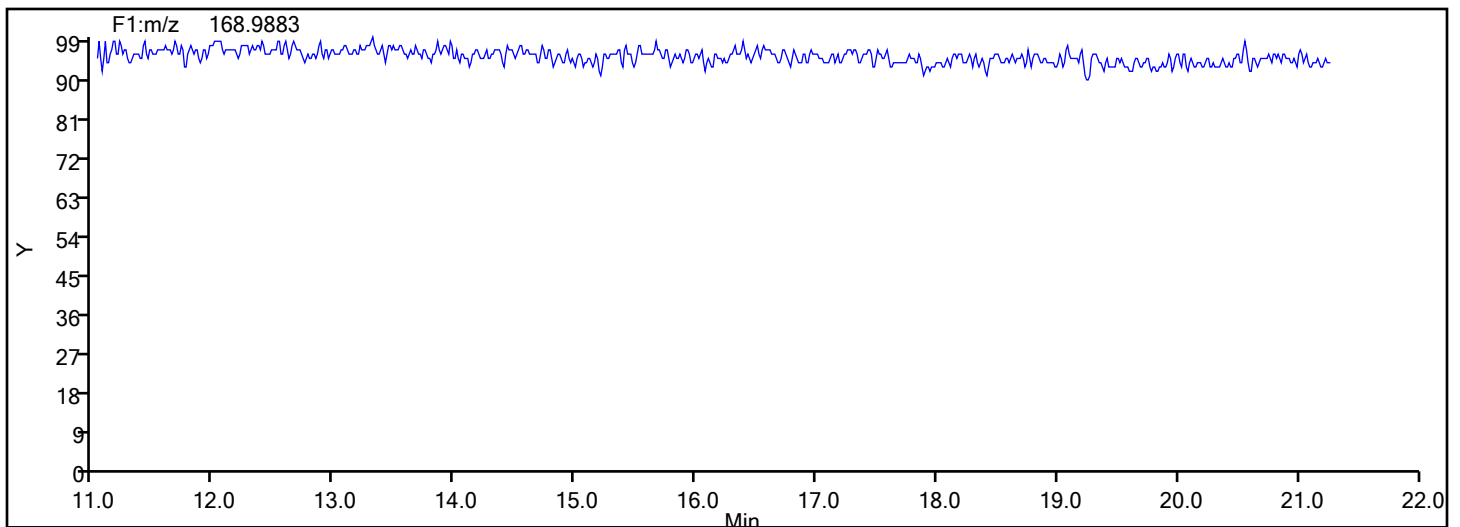
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

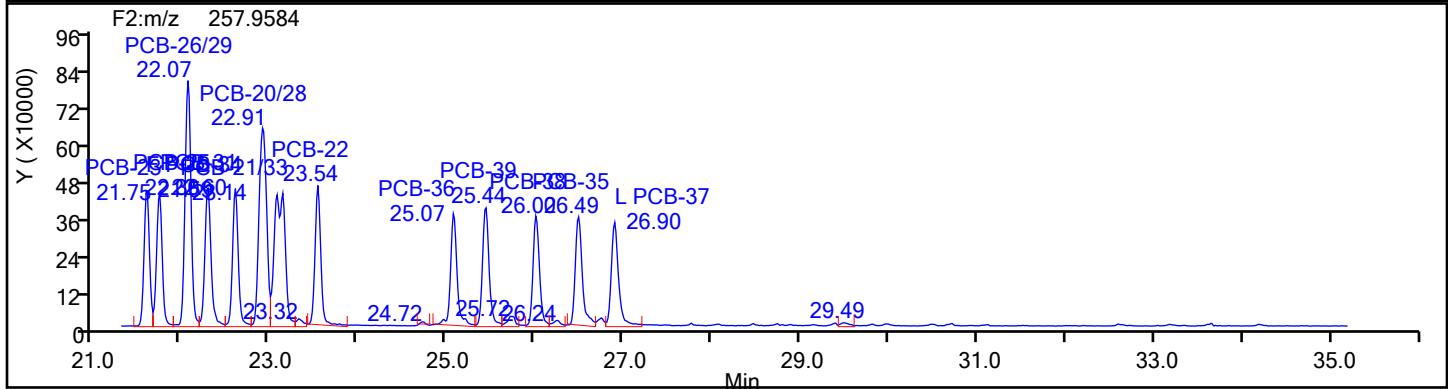
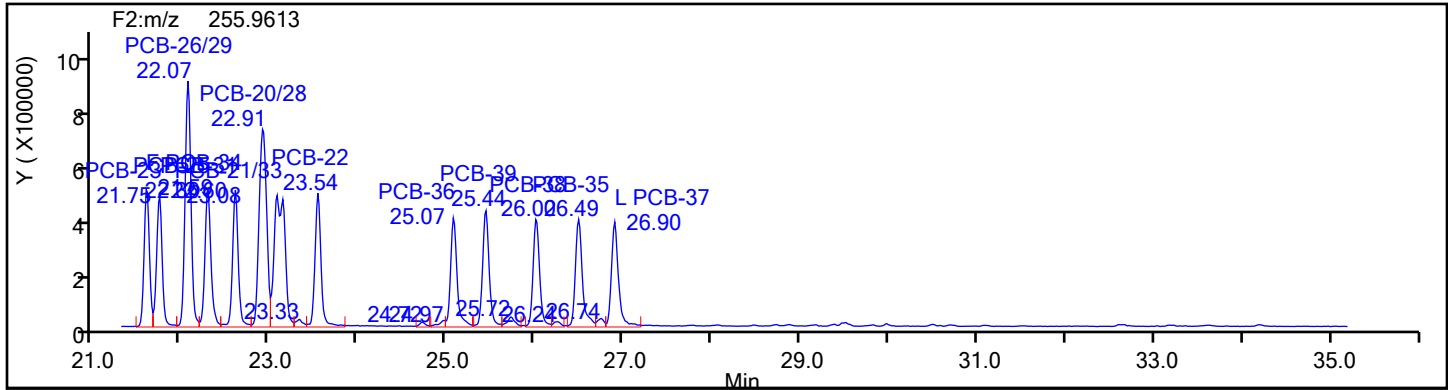
Worklist#: 88780

Sample Line#: 1

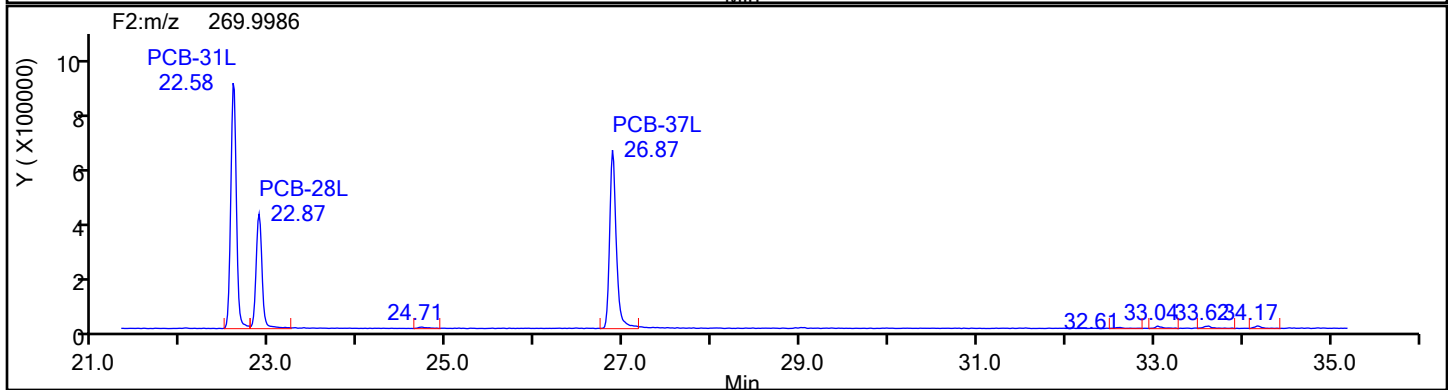
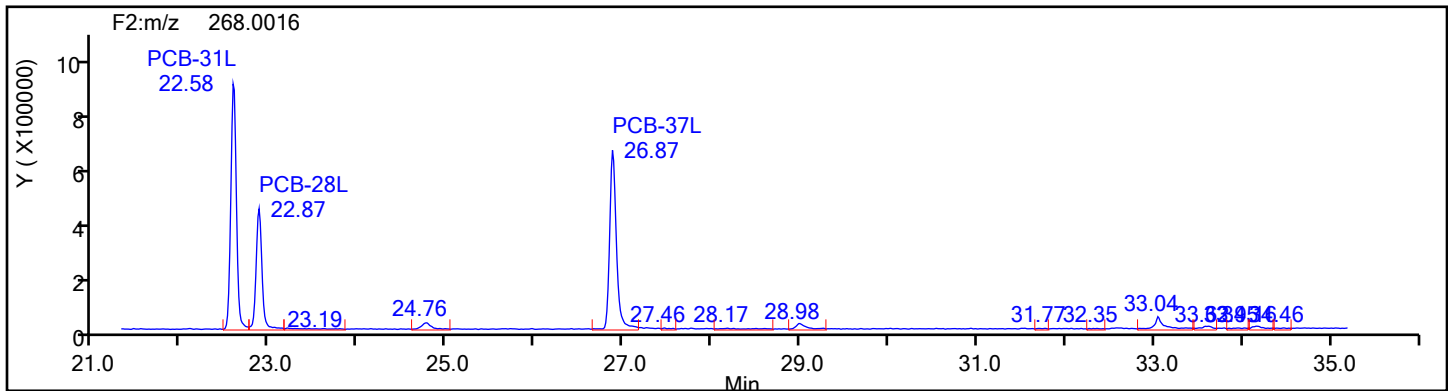
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

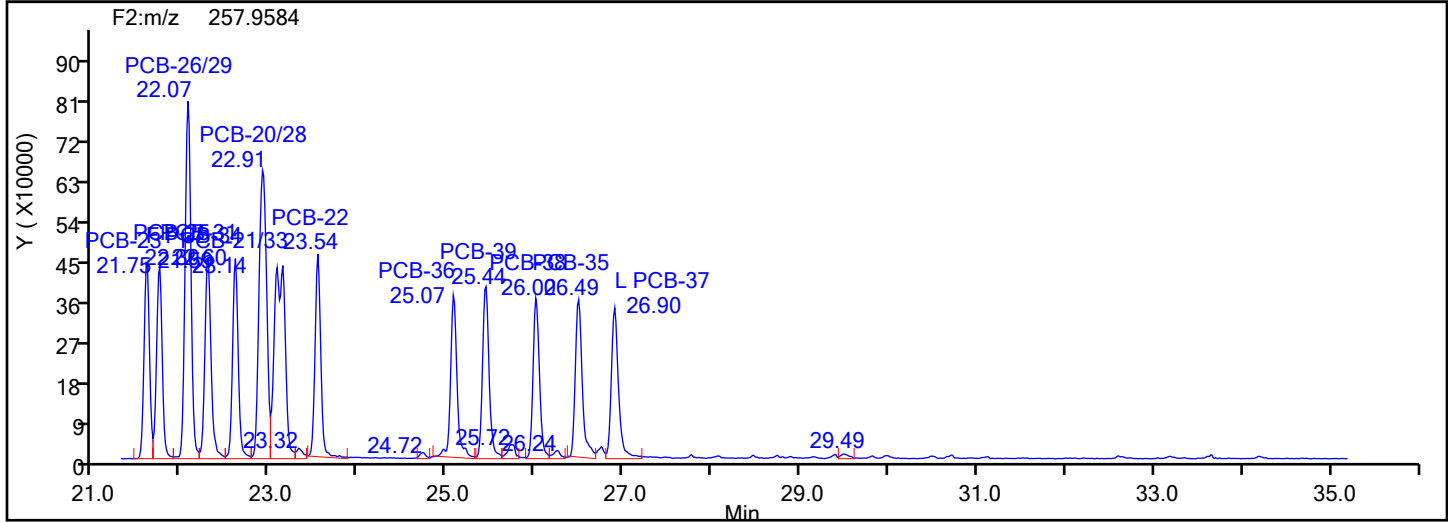
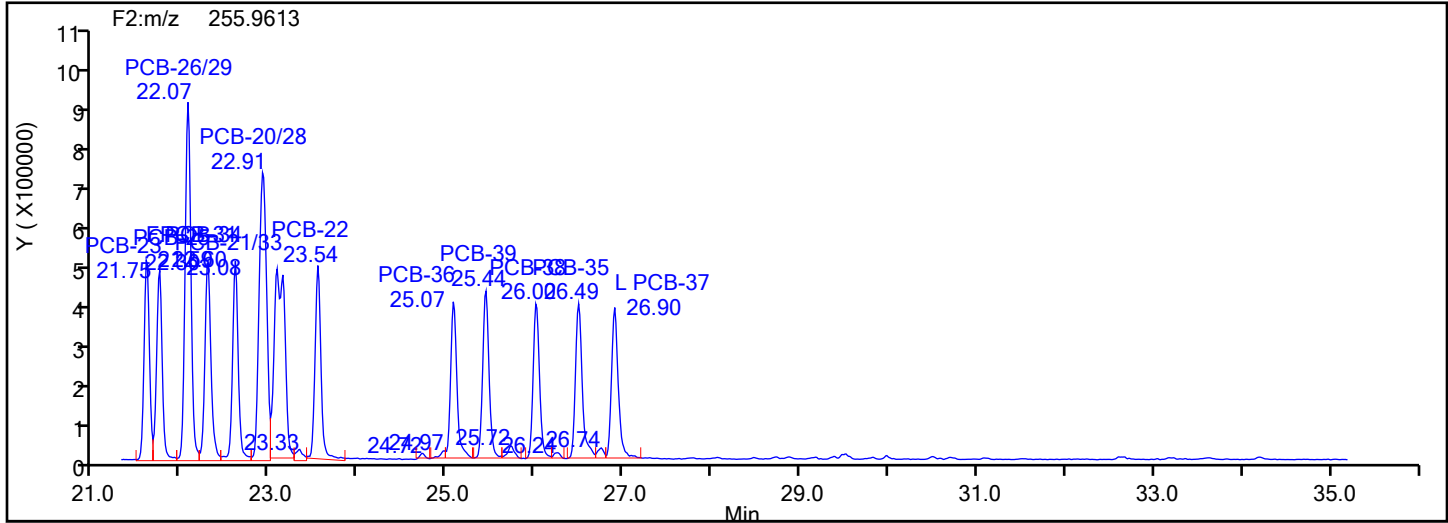
Worklist#: 88780

Sample Line#: 1

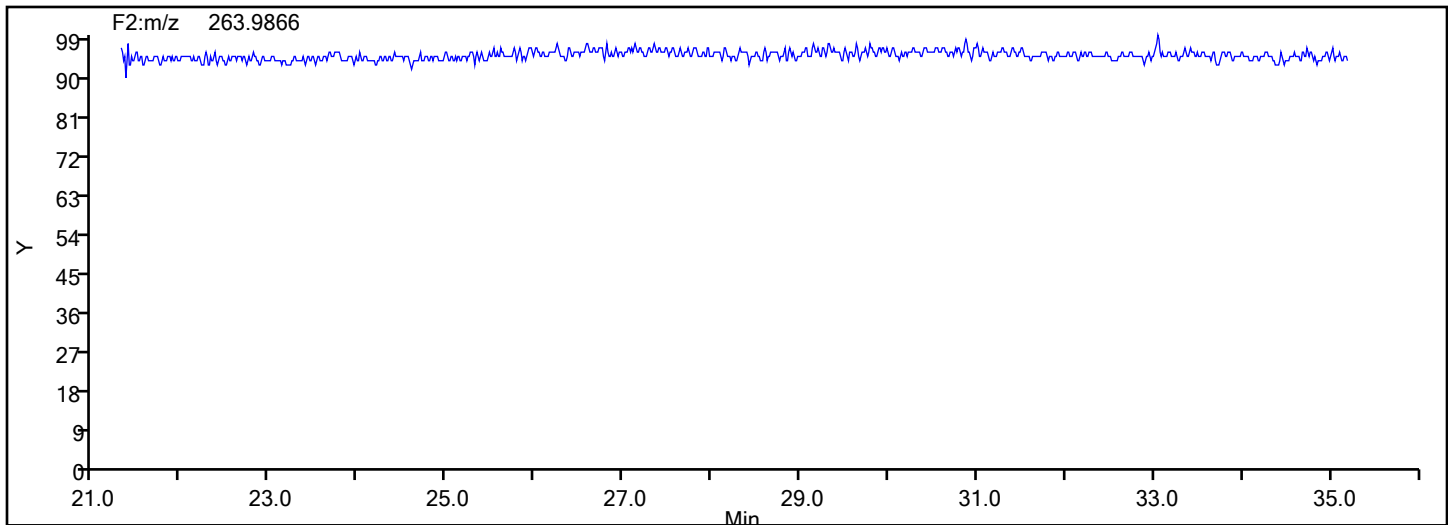
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

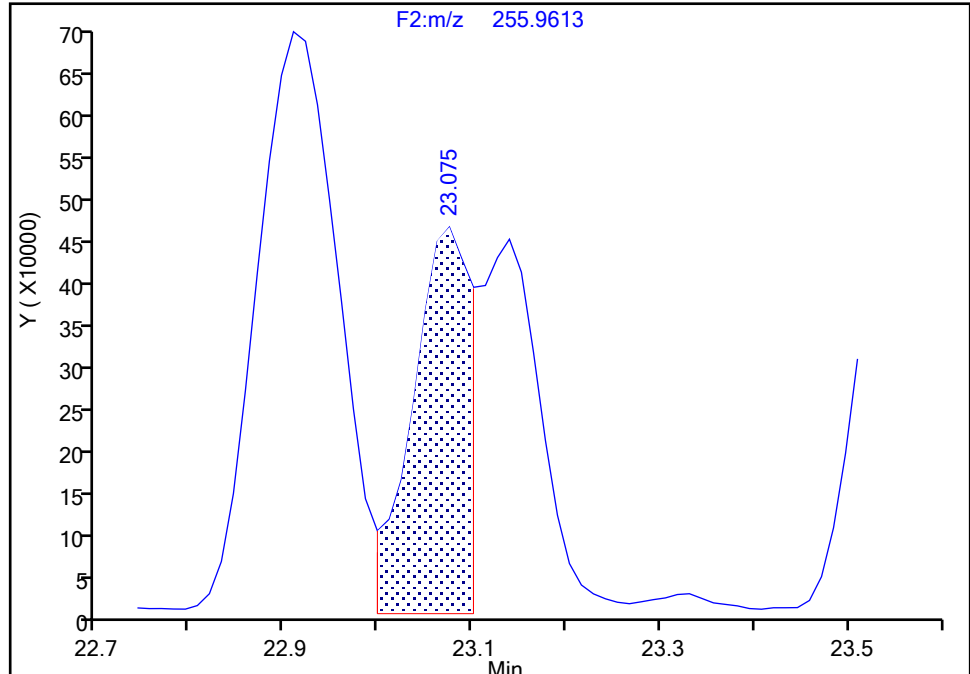
Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 1

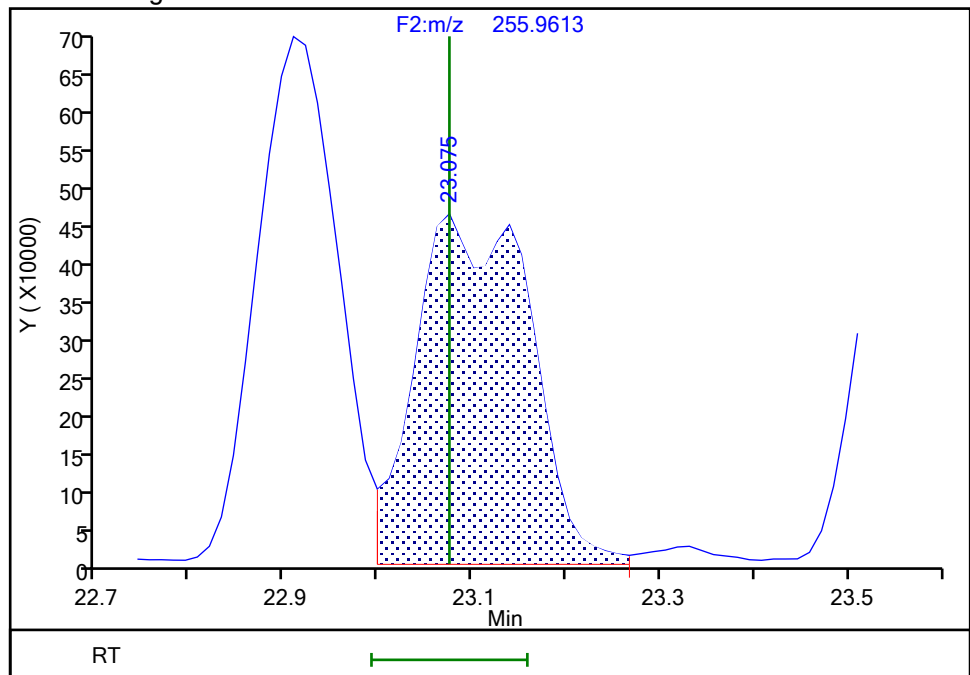
RT: 23.08
Area: 1893959
Amount: 50.491385
Amount Units: pg/ul

Processing Integration Results



RT: 23.08
Area: 3903530
Amount: 104.7027
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:58:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

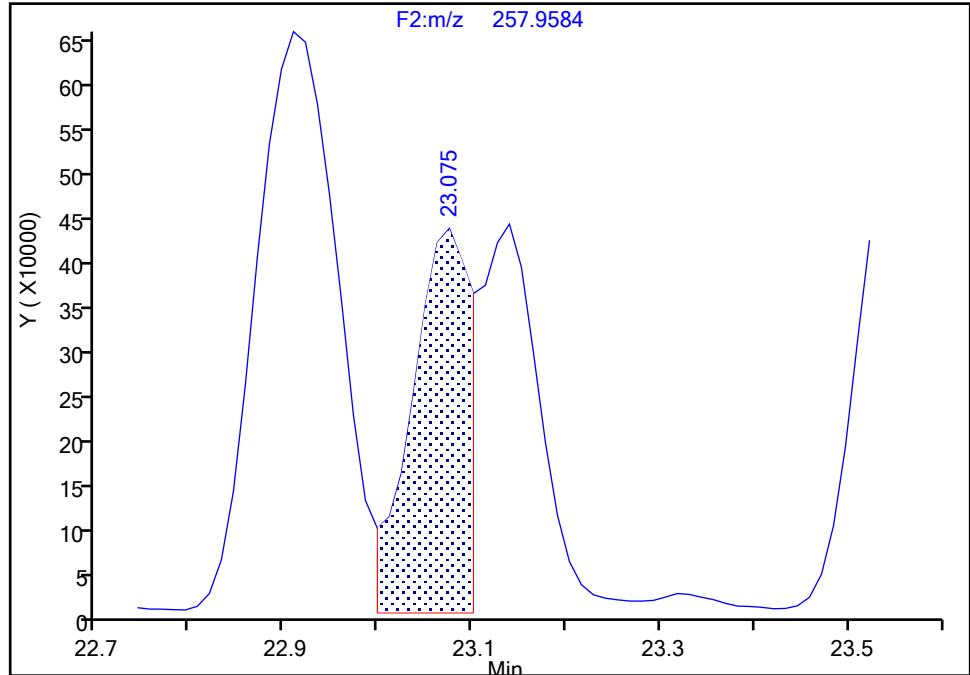
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-21/33, CAS: STL01800

Signal: 2

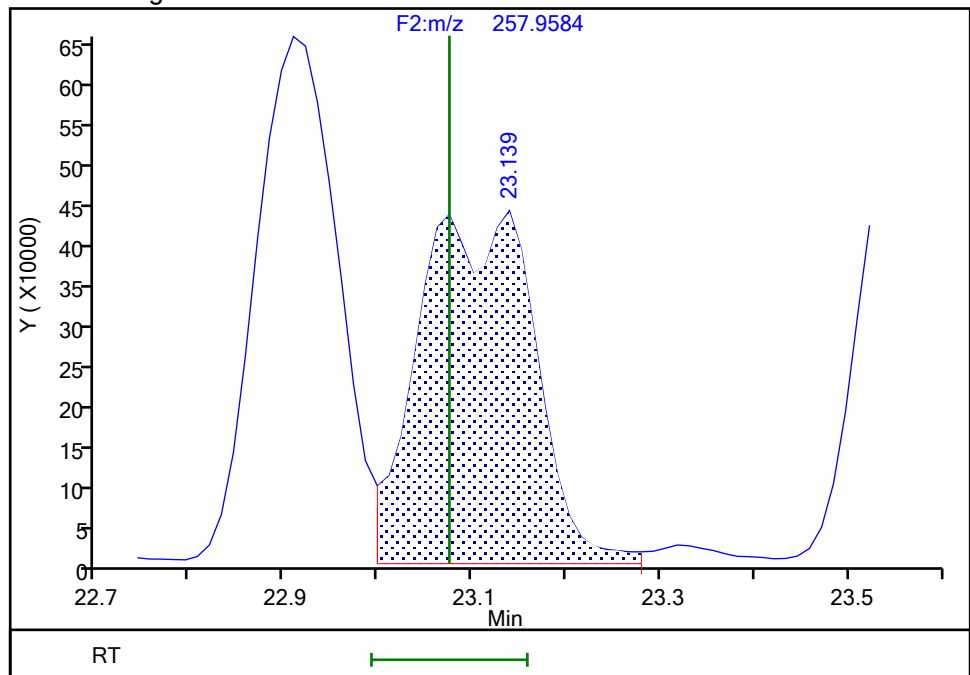
RT: 23.08
Area: 1783455
Amount: 50.491385
Amount Units: pg/ul

Processing Integration Results



RT: 23.14
Area: 3722233
Amount: 104.7027
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:58:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2792 of 3050

BASFWHC-McIntosh-010793

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

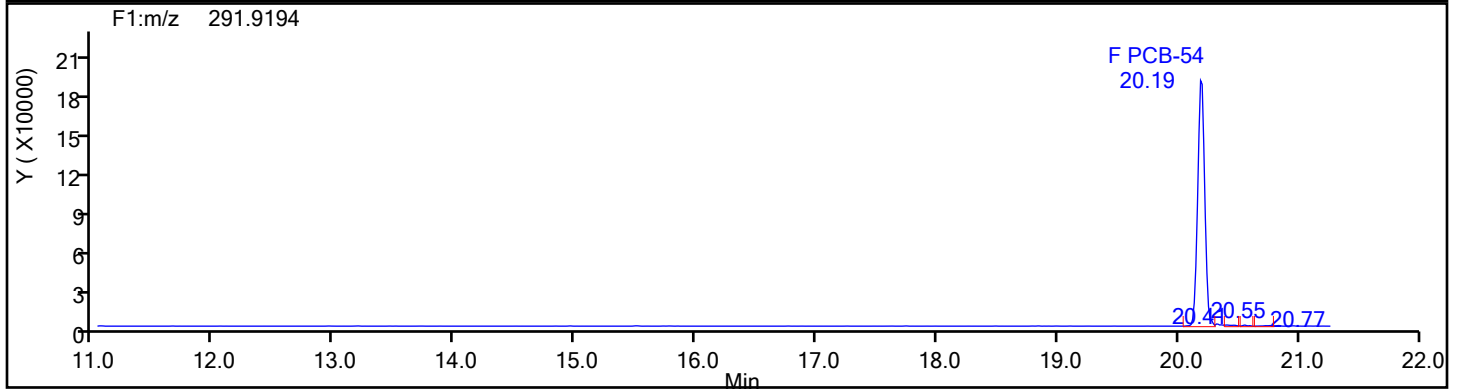
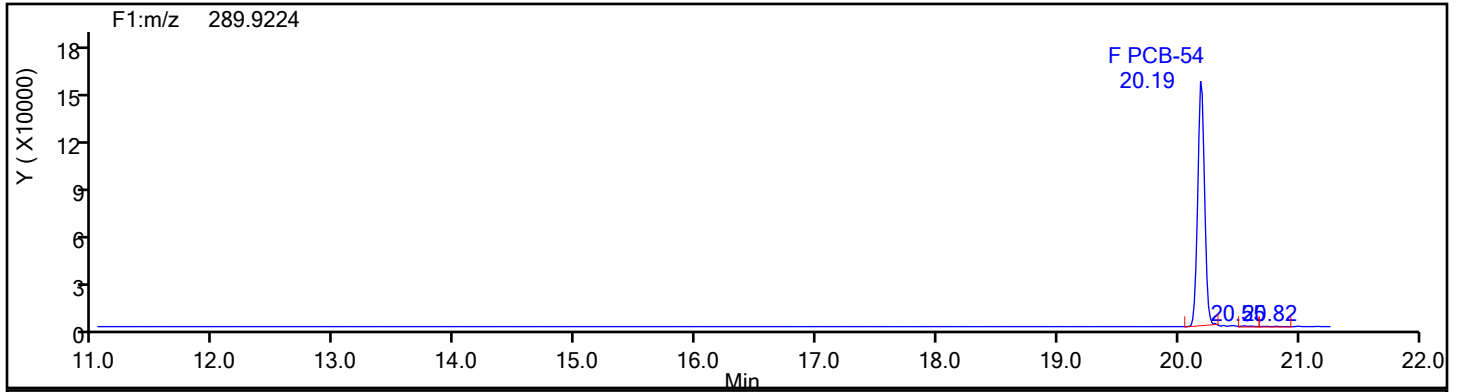
Worklist#: 88780

Sample Line#: 1

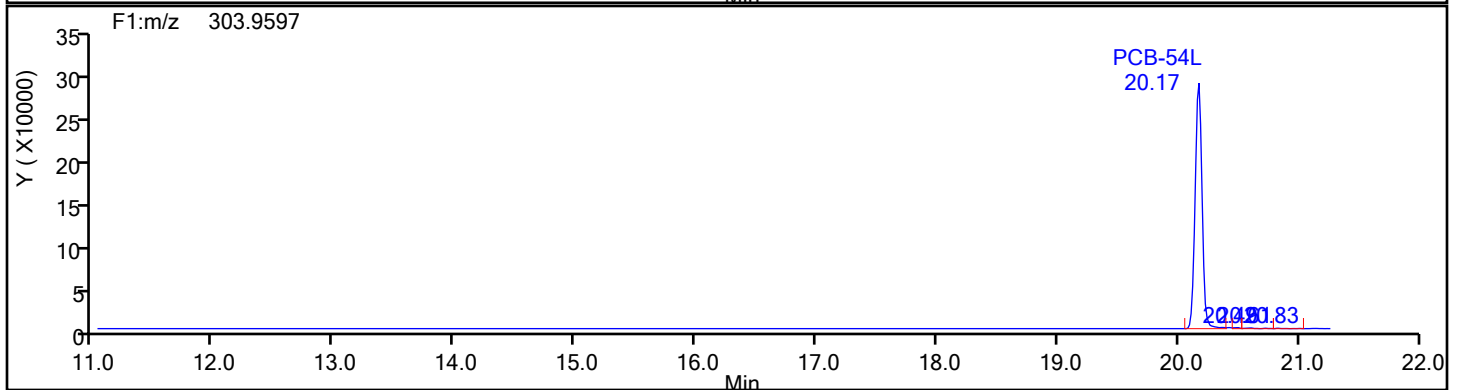
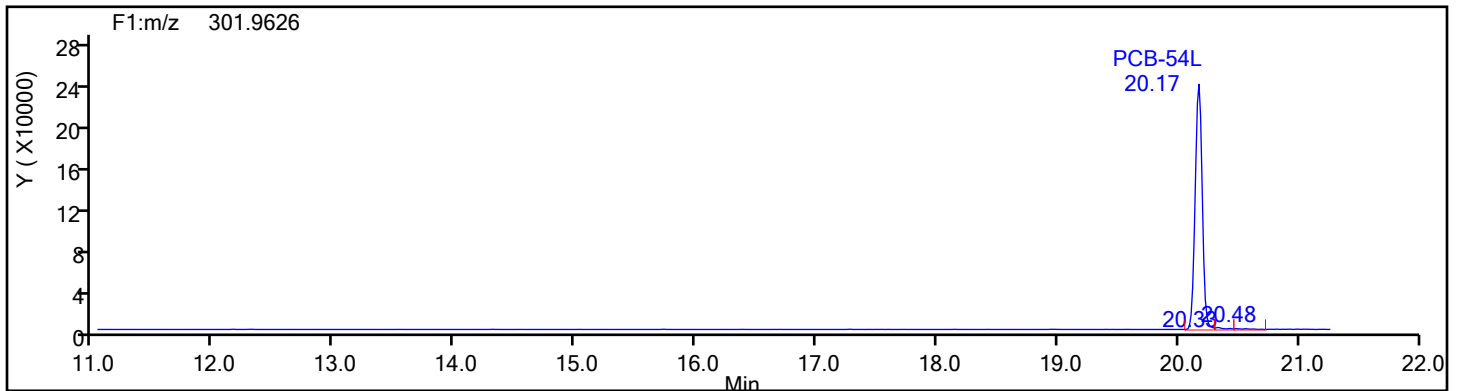
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

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Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

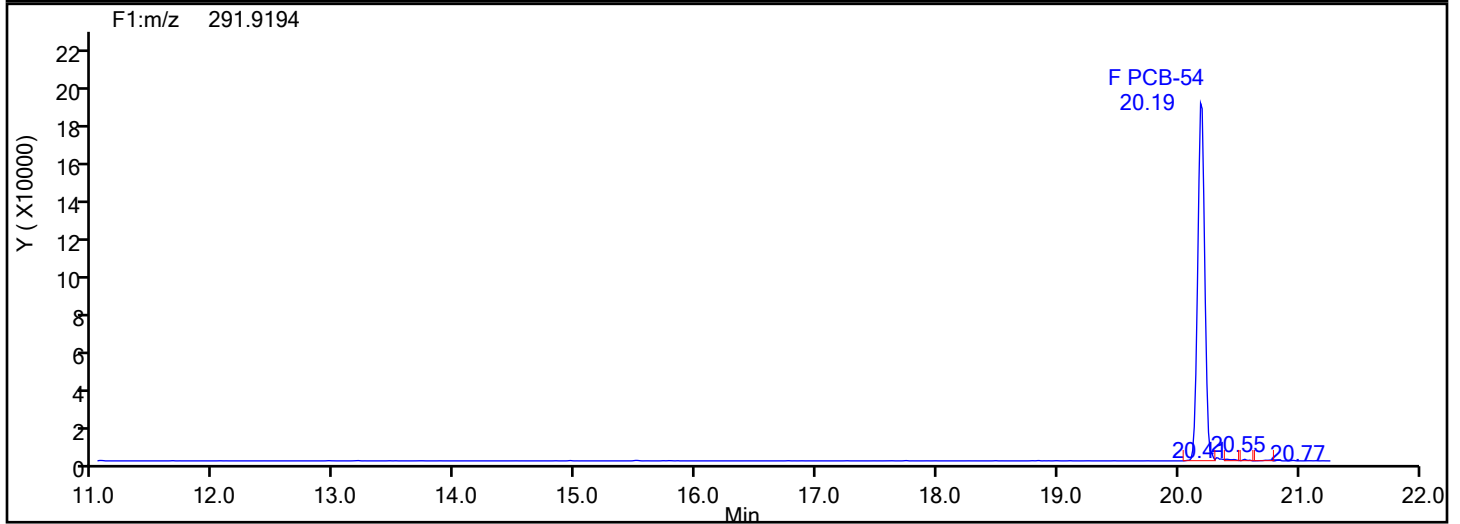
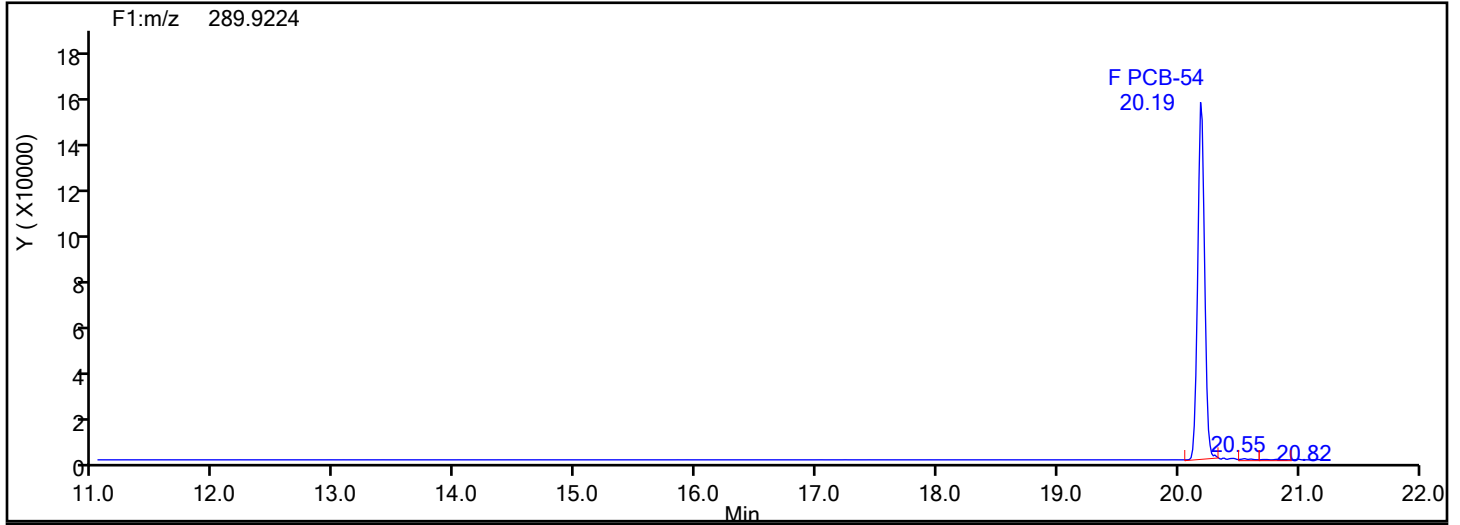
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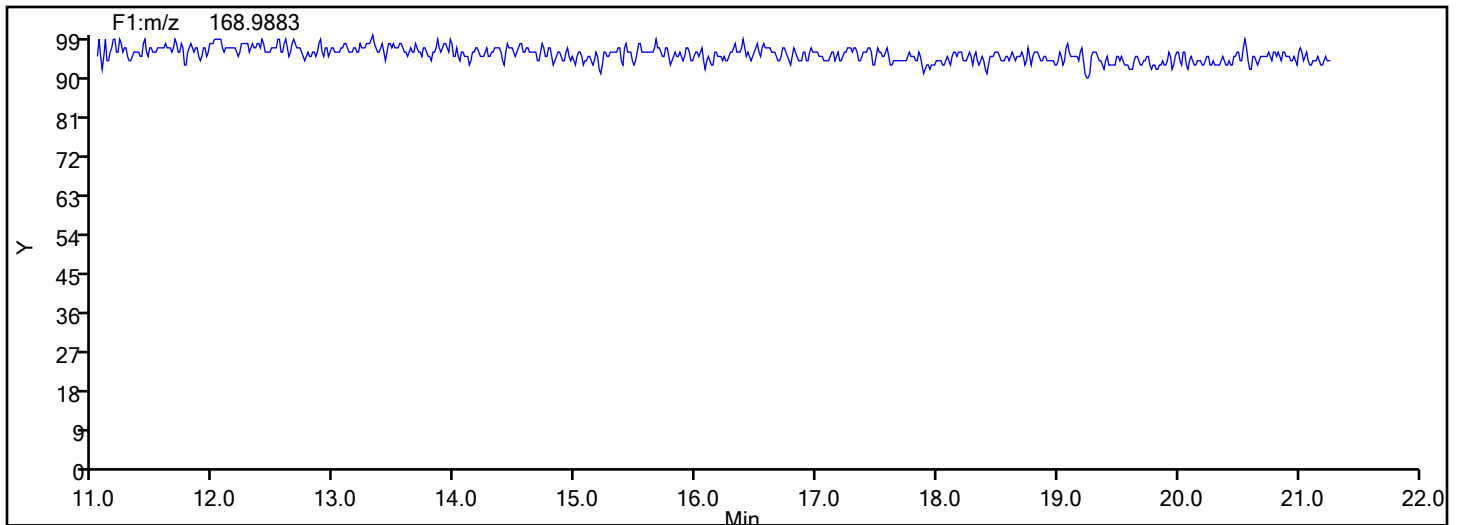
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

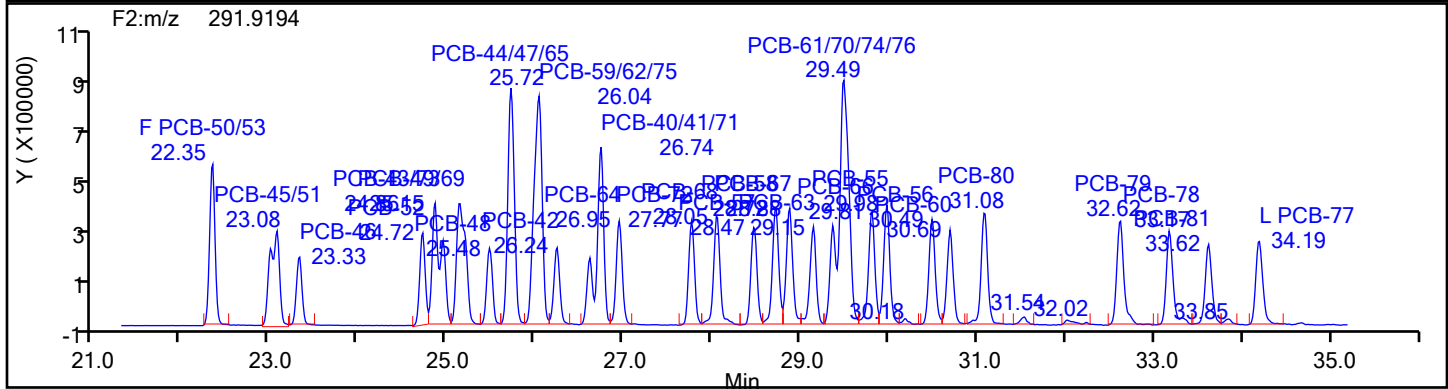
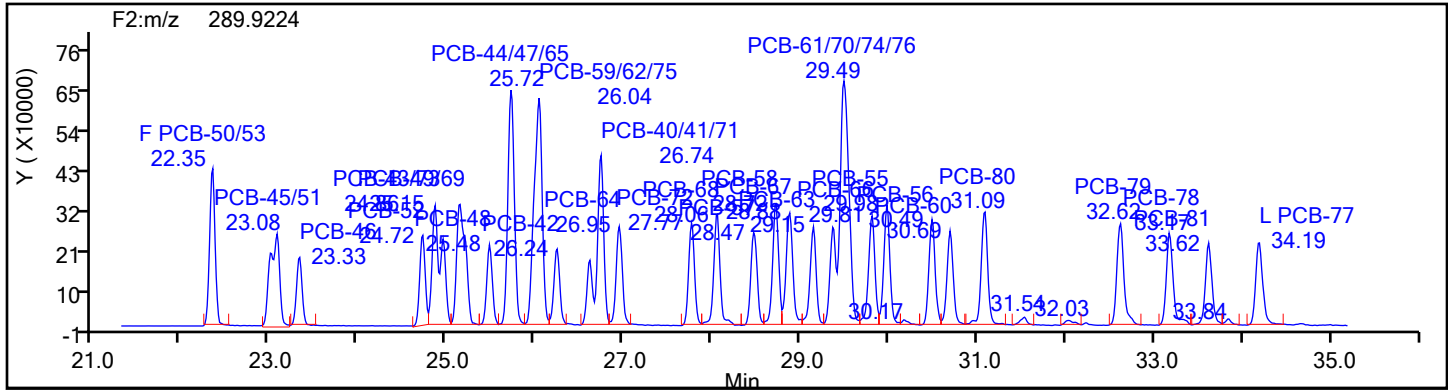
Worklist#: 88780

Sample Line#: 1

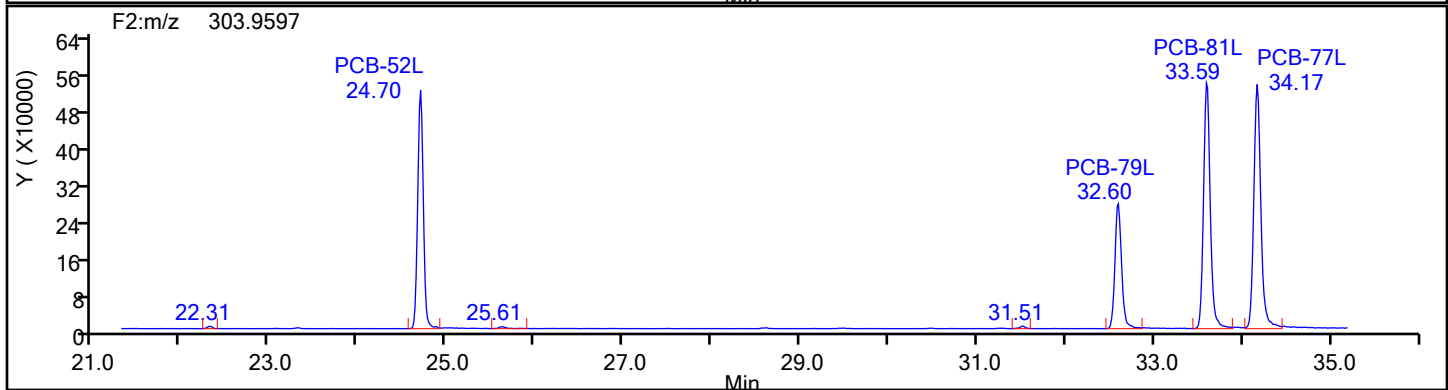
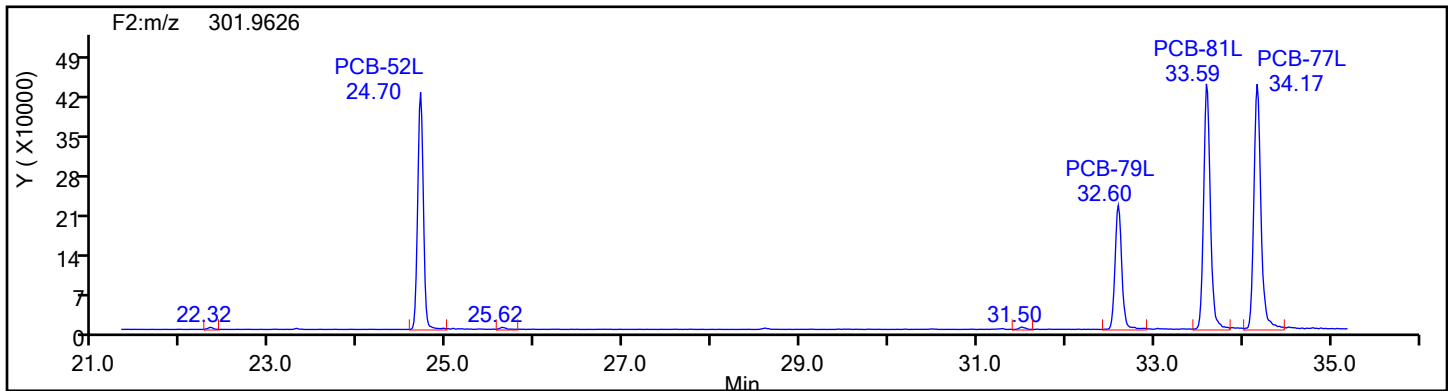
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

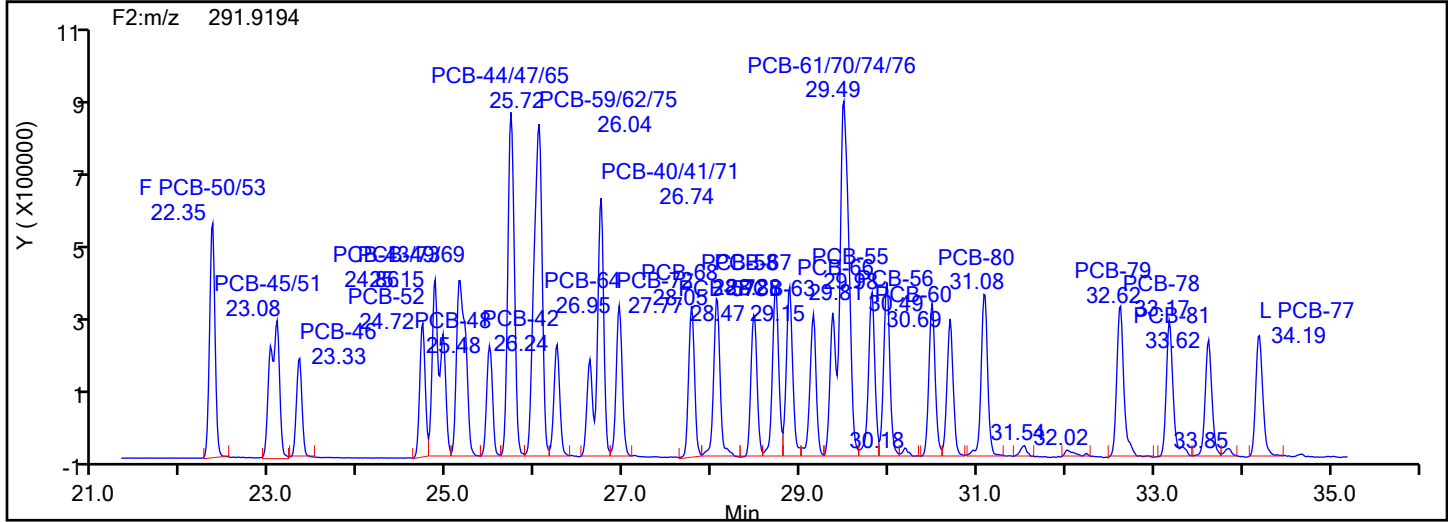
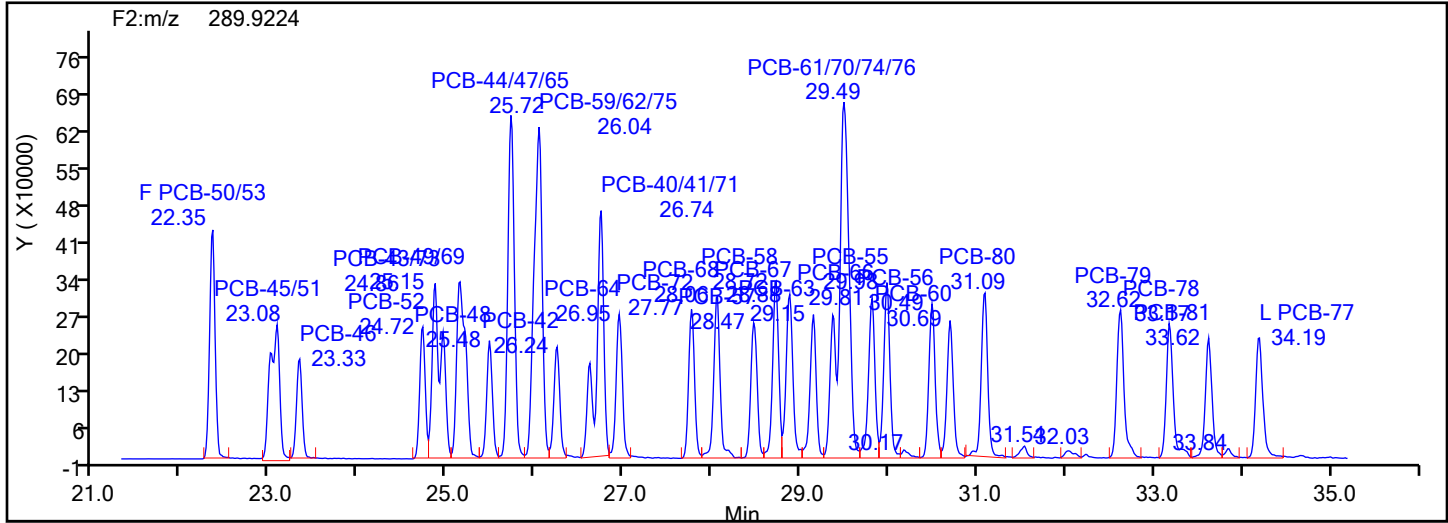
Worklist#: 88780

Sample Line#: 1

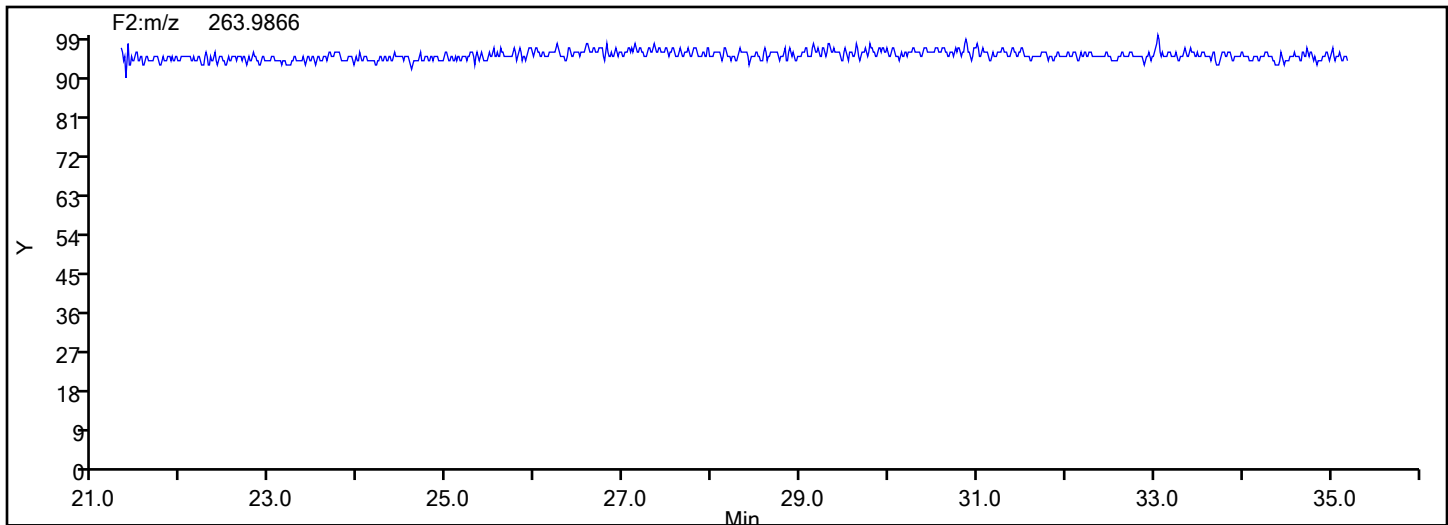
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

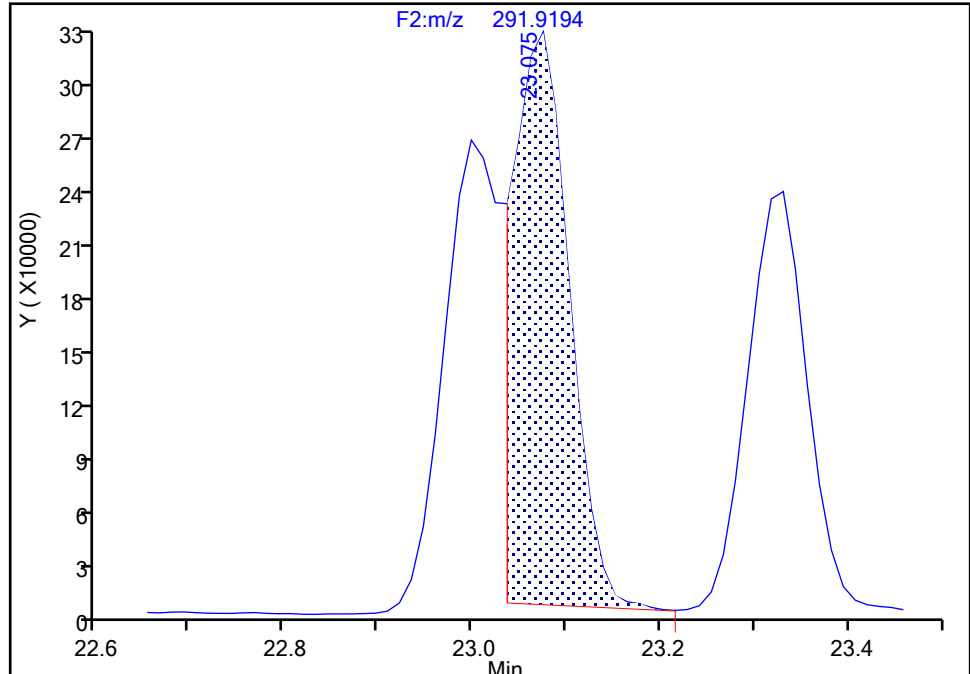
Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 2

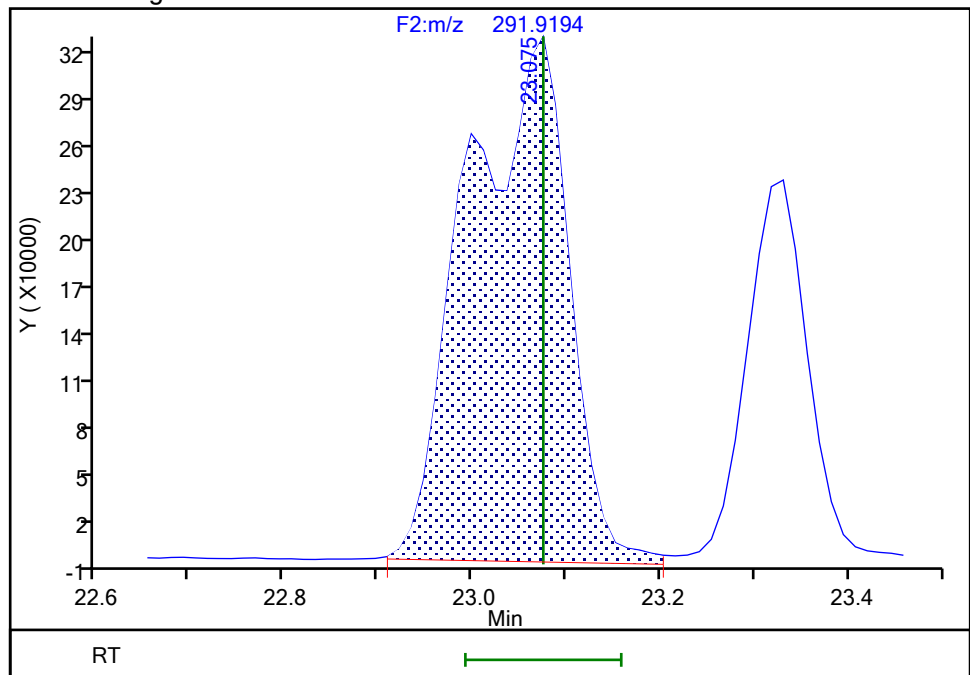
RT: 23.08
Area: 1263951
Amount: 52.089043
Amount Units: pg/ul

Processing Integration Results



RT: 23.08
Area: 2416623
Amount: 99.442828
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:59:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

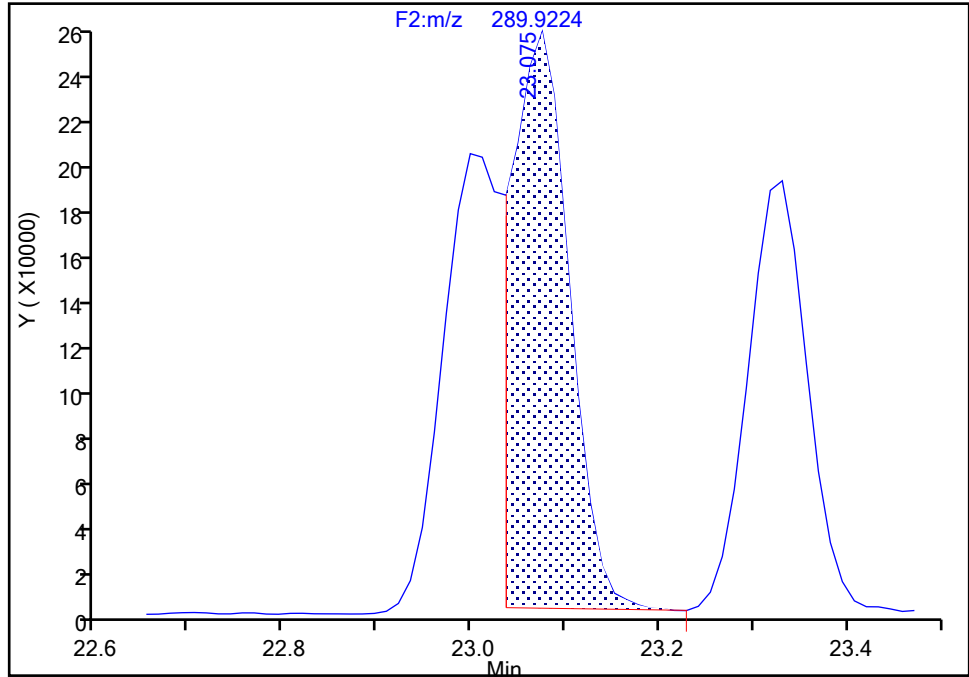
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-45/51, CAS: STL01804

Signal: 1

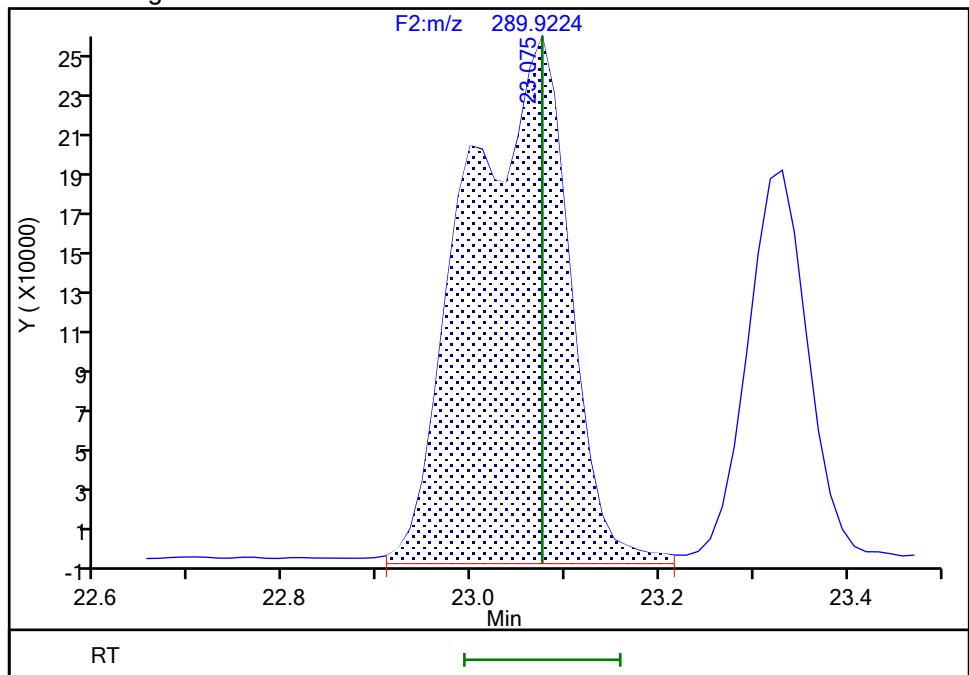
RT: 23.08
Area: 1010440
Amount: 52.089043
Amount Units: pg/ul

Processing Integration Results



RT: 23.08
Area: 1925401
Amount: 99.442828
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:59:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 2798 of 3050BASFWHC-McIntosh-010799
9/6/2024
4:11:20 PM

Eurofins Knoxville

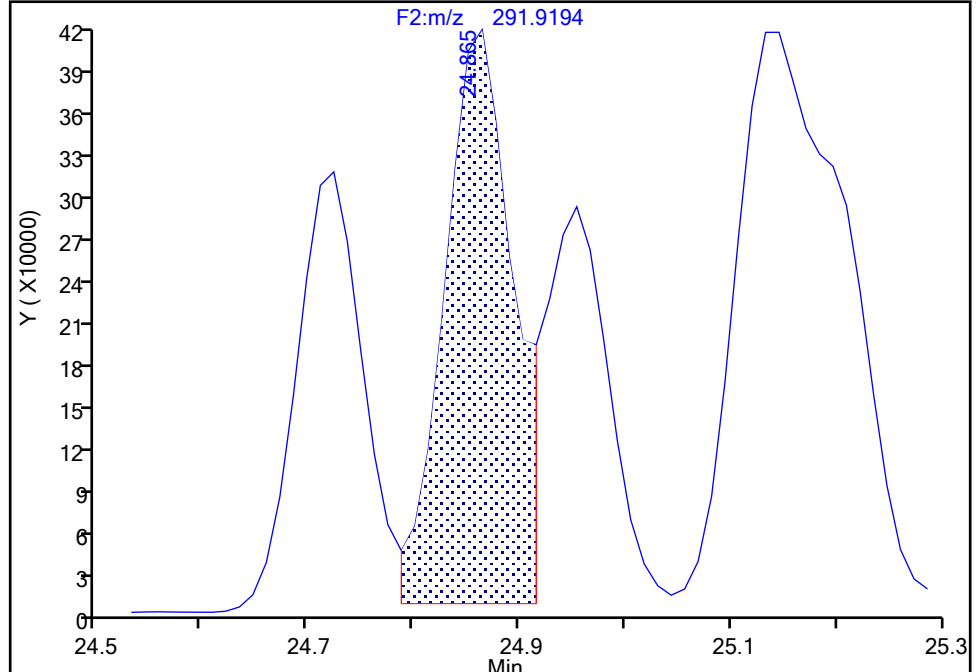
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 2

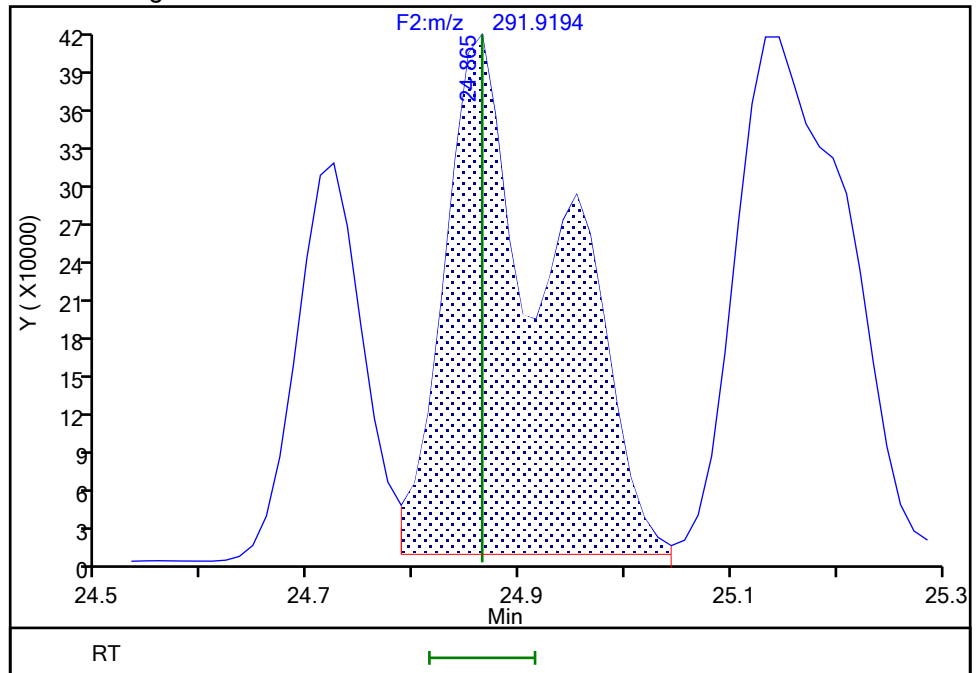
RT: 24.86
Area: 1821972
Amount: 60.034459
Amount Units: pg/ul

Processing Integration Results



RT: 24.86
Area: 3002523
Amount: 99.464381
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:59:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

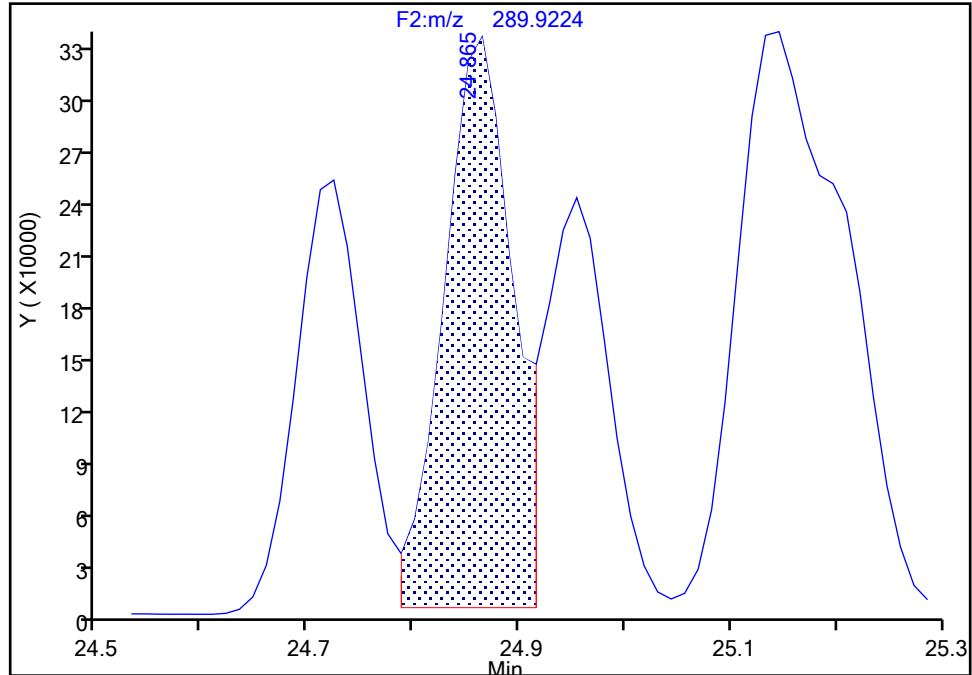
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-43/73, CAS: STL02293

Signal: 1

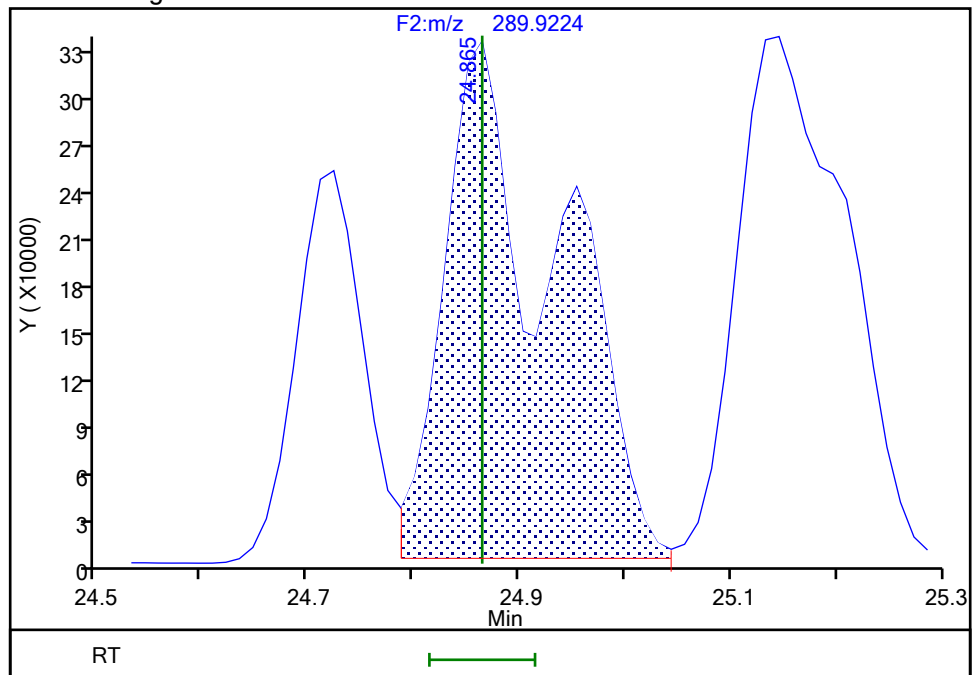
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Area: 1455651
Amount: 60.034459
Amount Units: pg/ul

Processing Integration Results



RT: 24.86
Area: 2427804
Amount: 99.464381
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:59:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2800 of 3050

BASFWHC-McIntosh-010801

9/6/2024

4:11:20 PM

Eurofins Knoxville

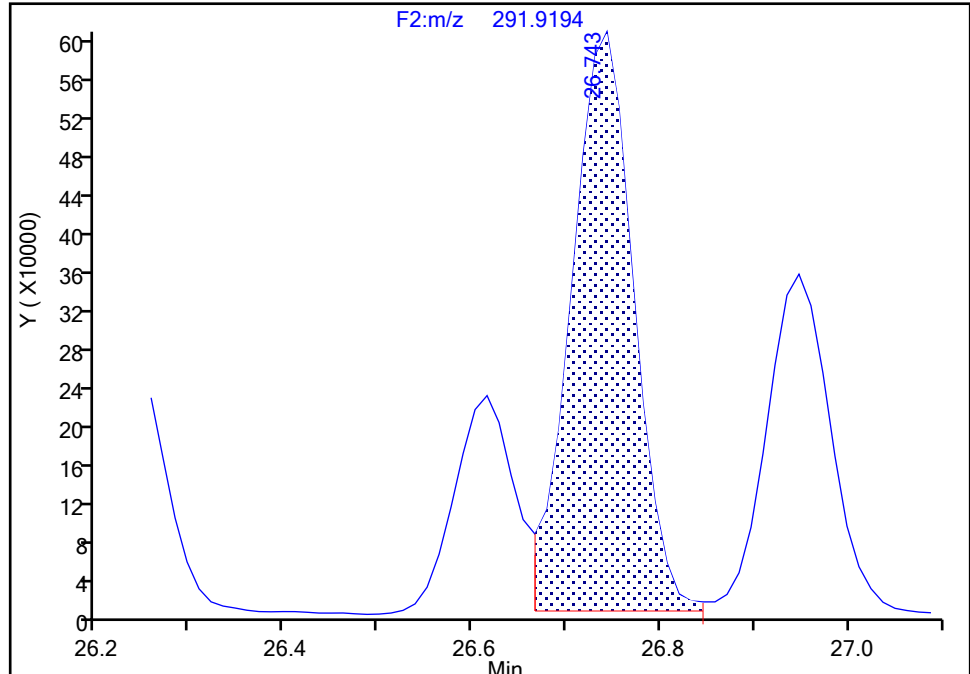
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 2

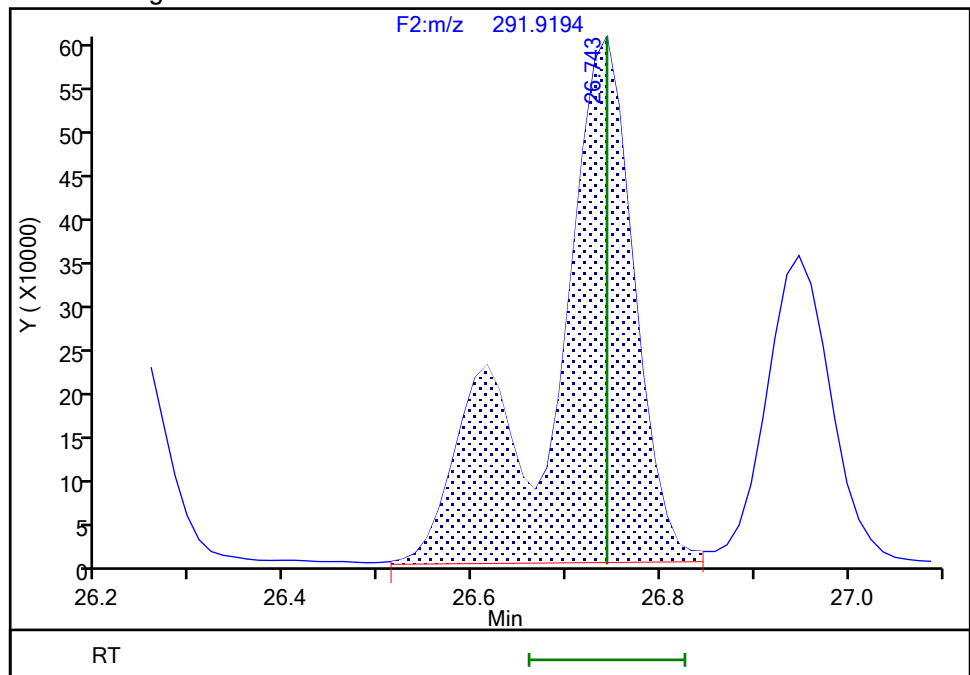
RT: 26.74
Area: 2770123
Amount: 104.9473
Amount Units: pg/ul

Processing Integration Results



RT: 26.74
Area: 3799986
Amount: 142.7405
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 01:59:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

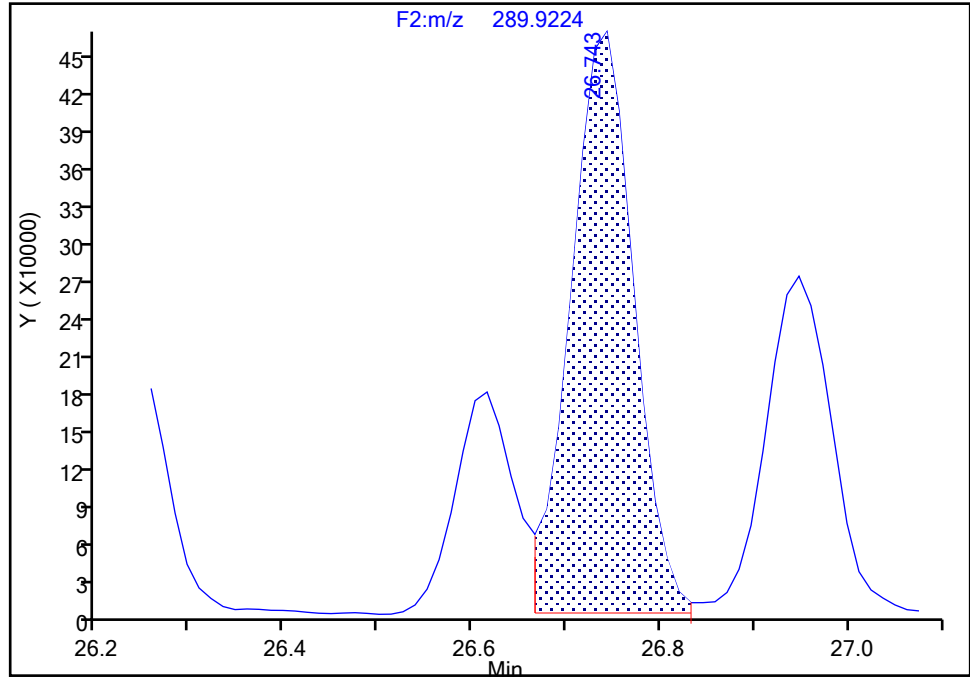
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-40/41/71, CAS: STL02292

Signal: 1

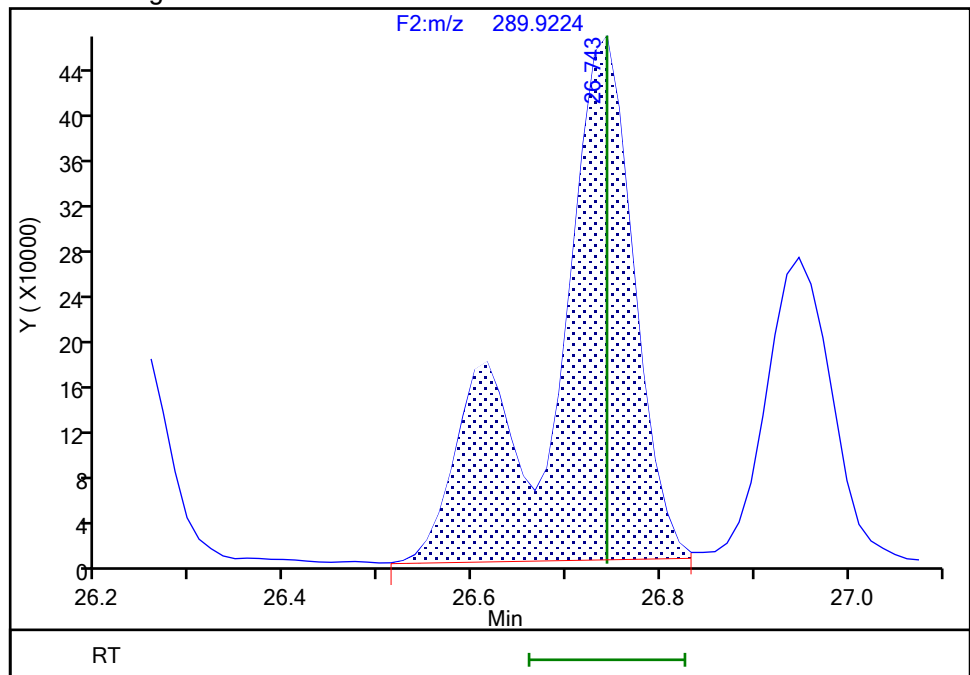
RT: 26.74
Area: 2144415
Amount: 104.9473
Amount Units: pg/ul

Processing Integration Results



RT: 26.74
Area: 2884357
Amount: 142.7405
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:00:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2802 of 3050

BASFWHC-McIntosh-010803

9/6/2024

4:11:20 PM

Eurofins Knoxville

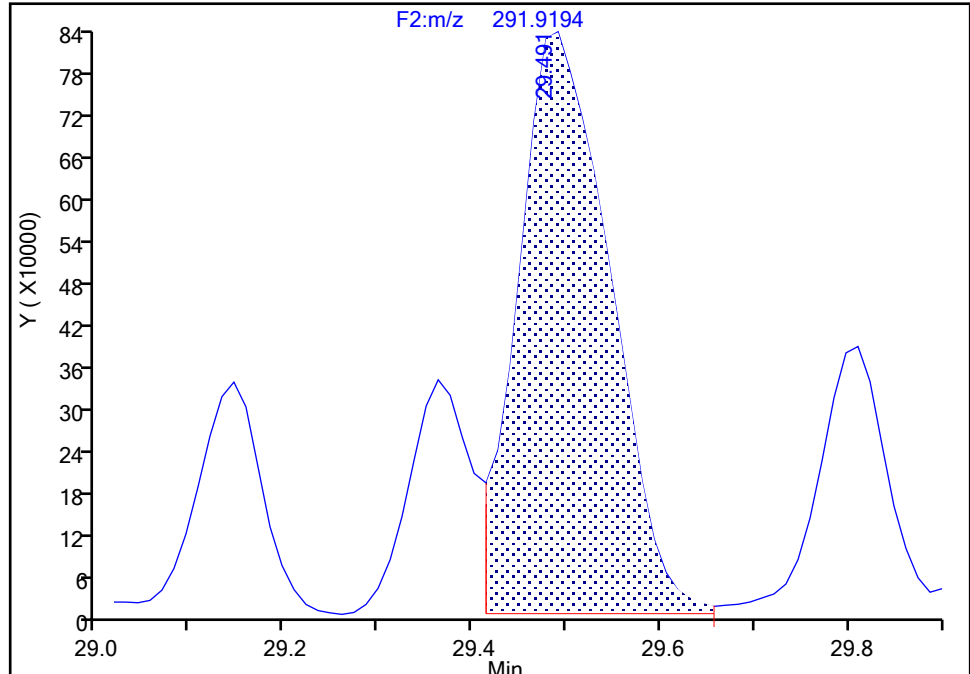
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-61/70/74/76, CAS: STL01808

Signal: 2

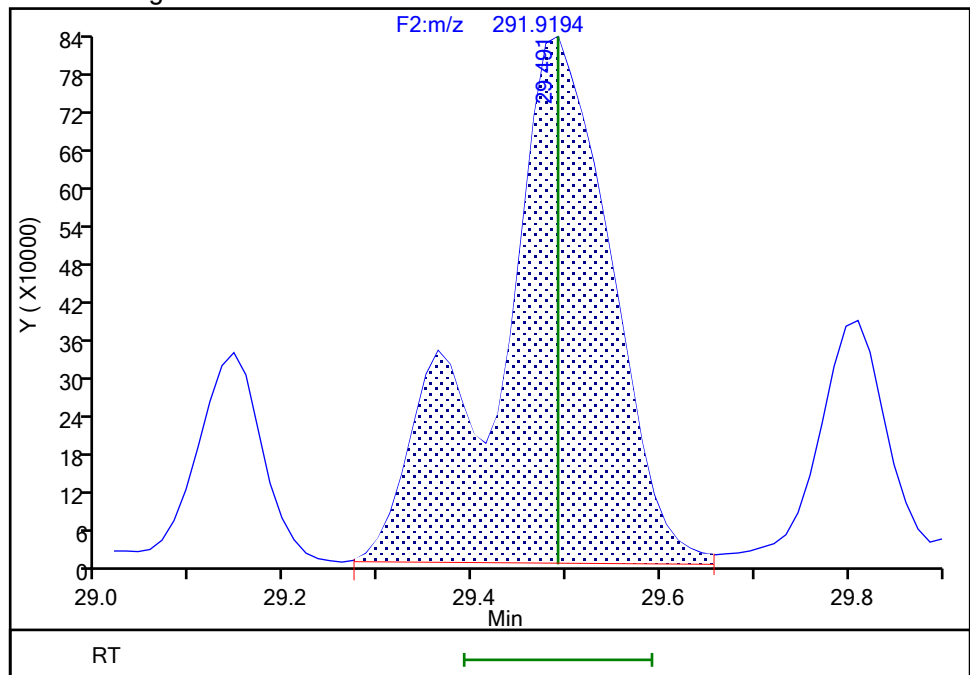
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Area: 5619592
Amount: 170.3988
Amount Units: pg/ul

Processing Integration Results



RT: 29.49
Area: 7159653
Amount: 193.5101
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:00:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 26-Jun-2024 16:13:32

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Injection Vol: 1.0 ul

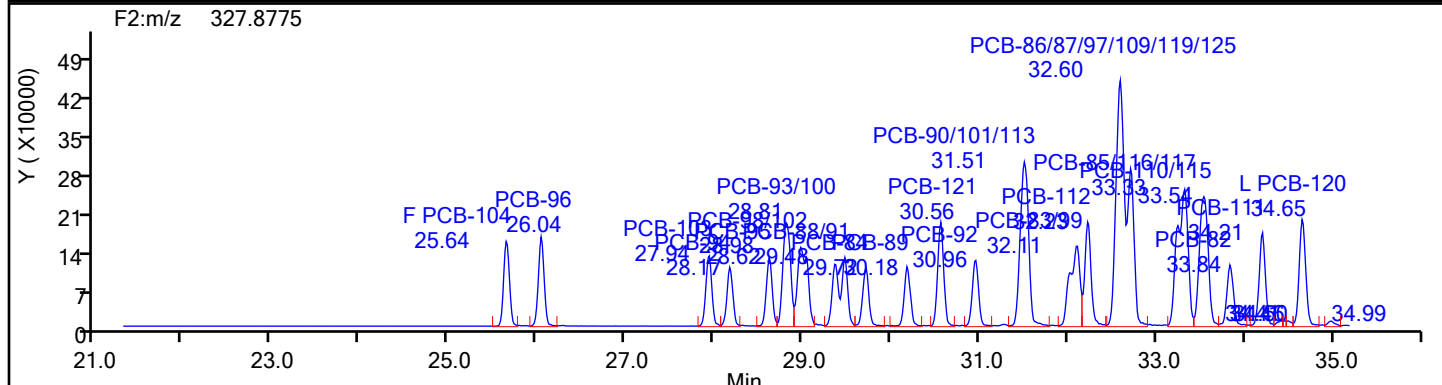
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

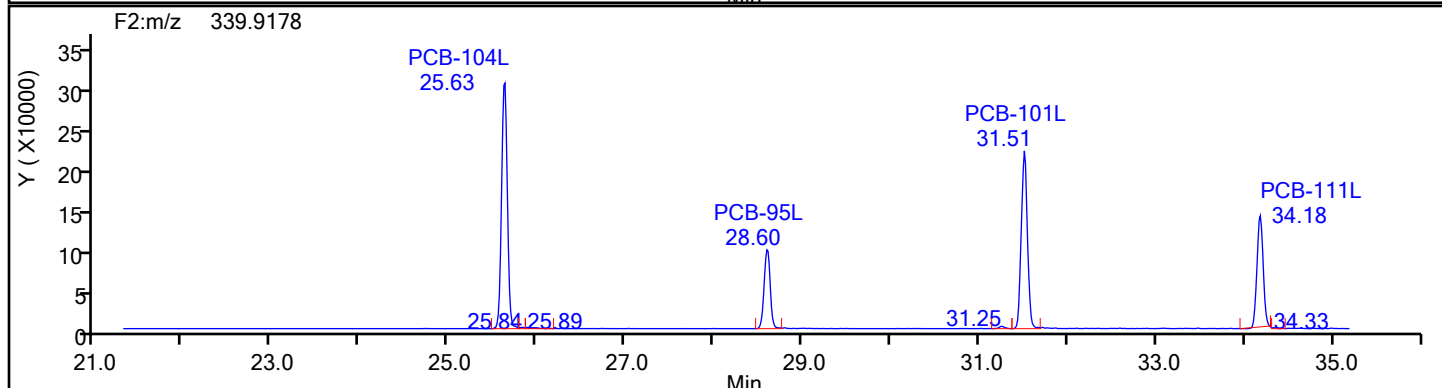
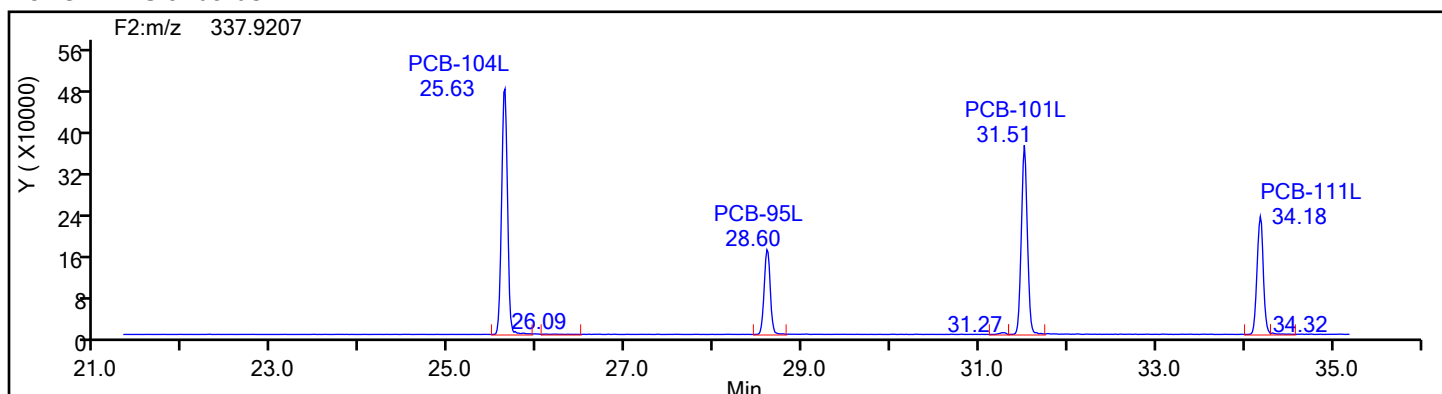
Sample Line#: 1

Column Dia: 0.25 mm

PePCB F2

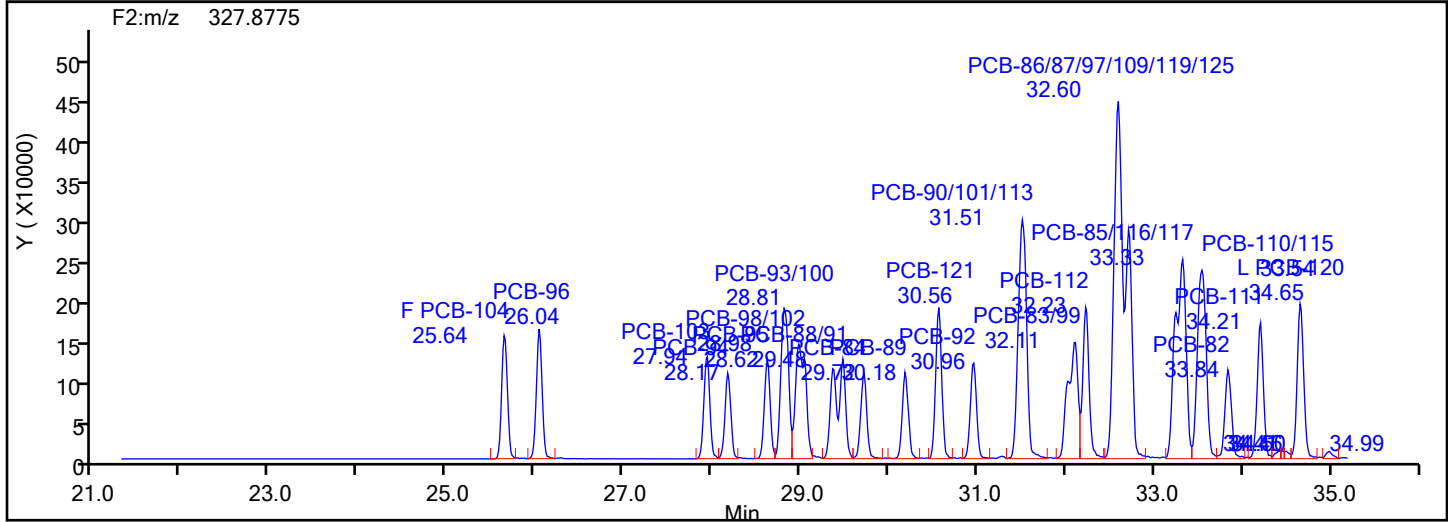
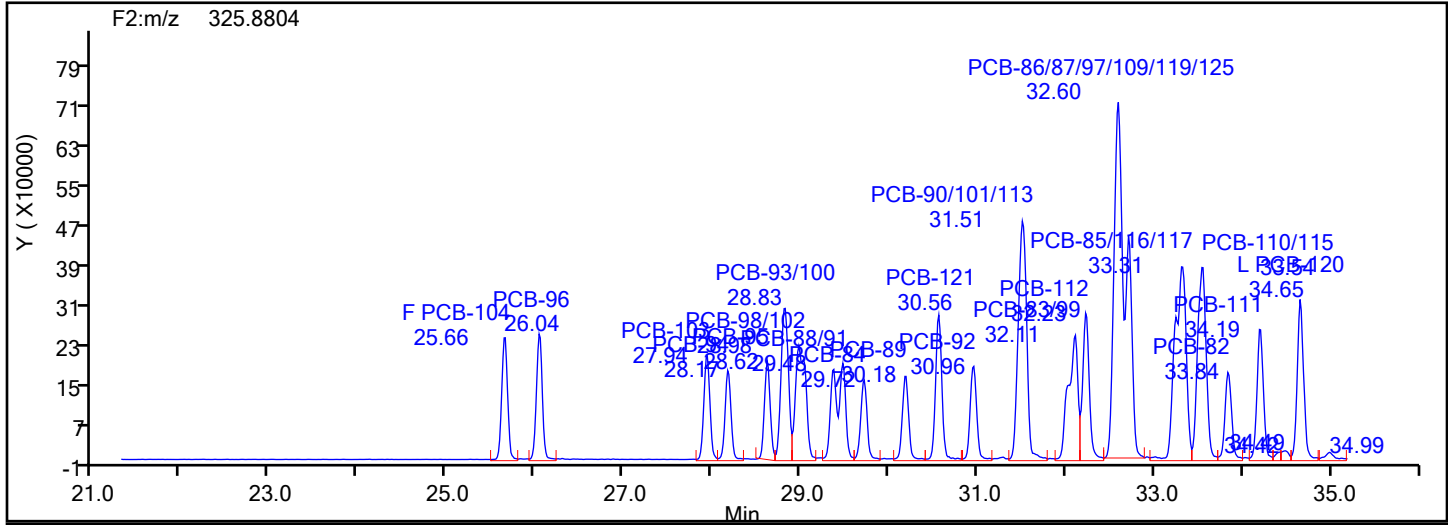


PePCB F2 Standards

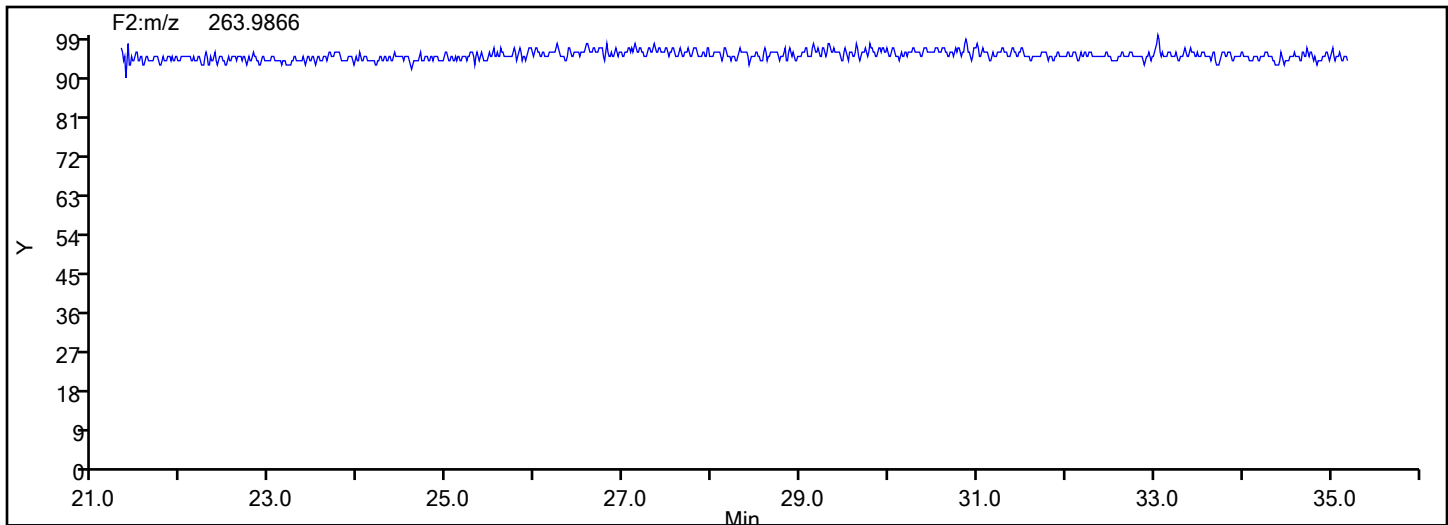


Eurofins Knoxville

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Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

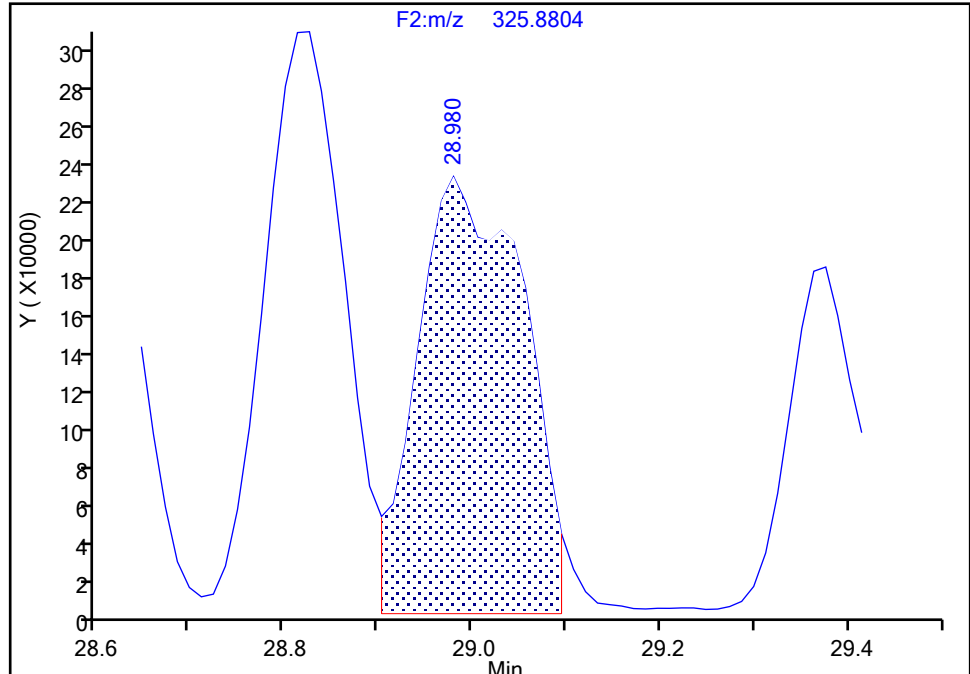
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-98/102, CAS: STL01843

Signal: 1

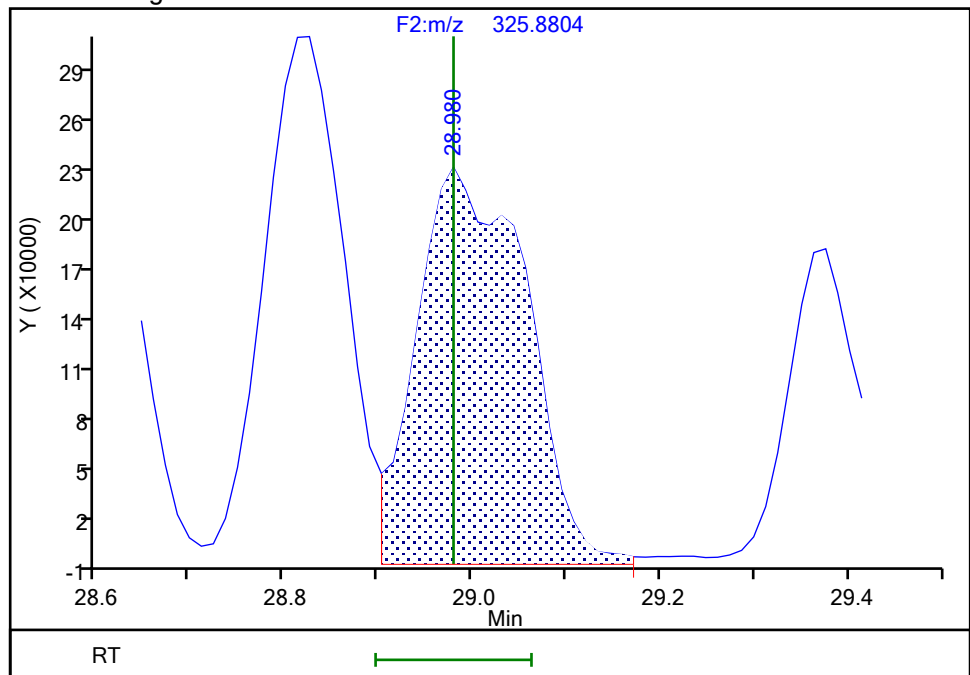
RT: 28.98
Area: 1770546
Amount: 96.684480
Amount Units: pg/ul

Processing Integration Results



RT: 28.98
Area: 1837210
Amount: 98.889993
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:00:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

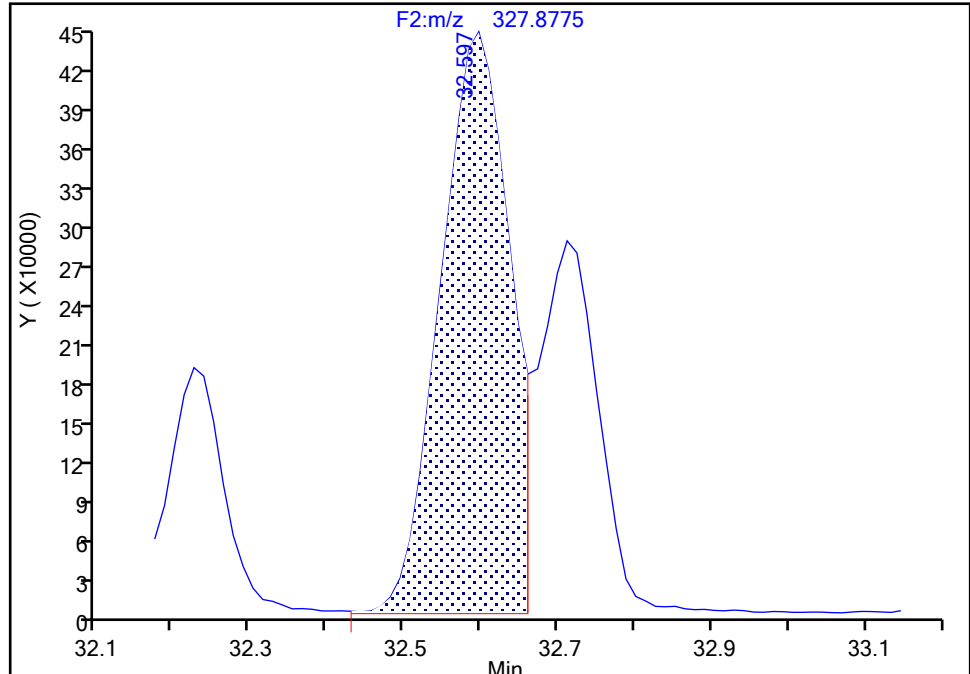
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

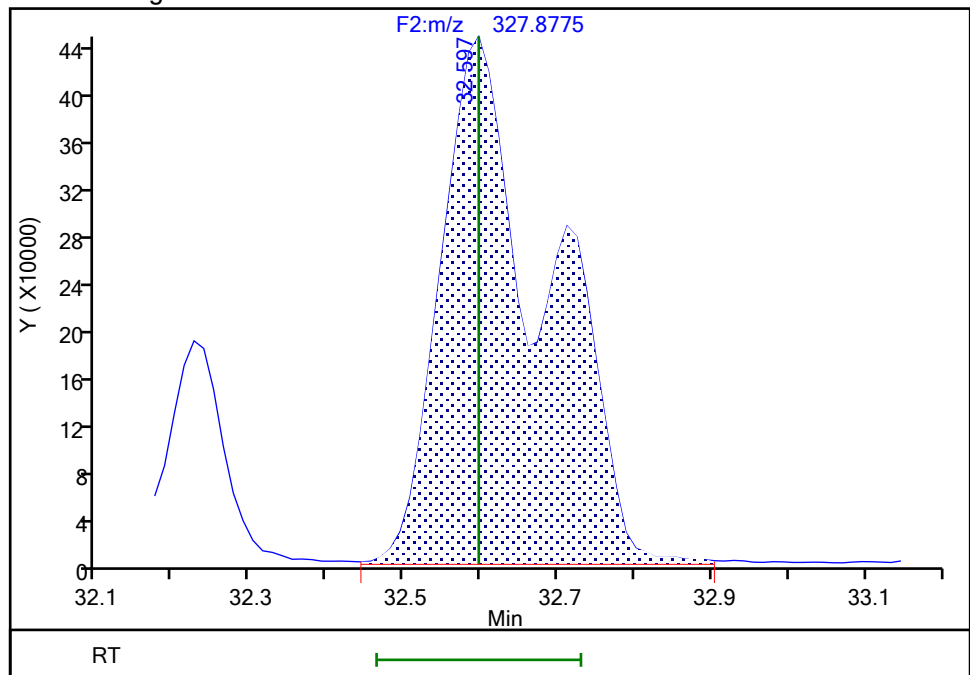
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Area: 2739552
Amount: 185.4421
Amount Units: pg/ul

Processing Integration Results



RT: 32.60
Area: 4230019
Amount: 285.0396
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:00:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

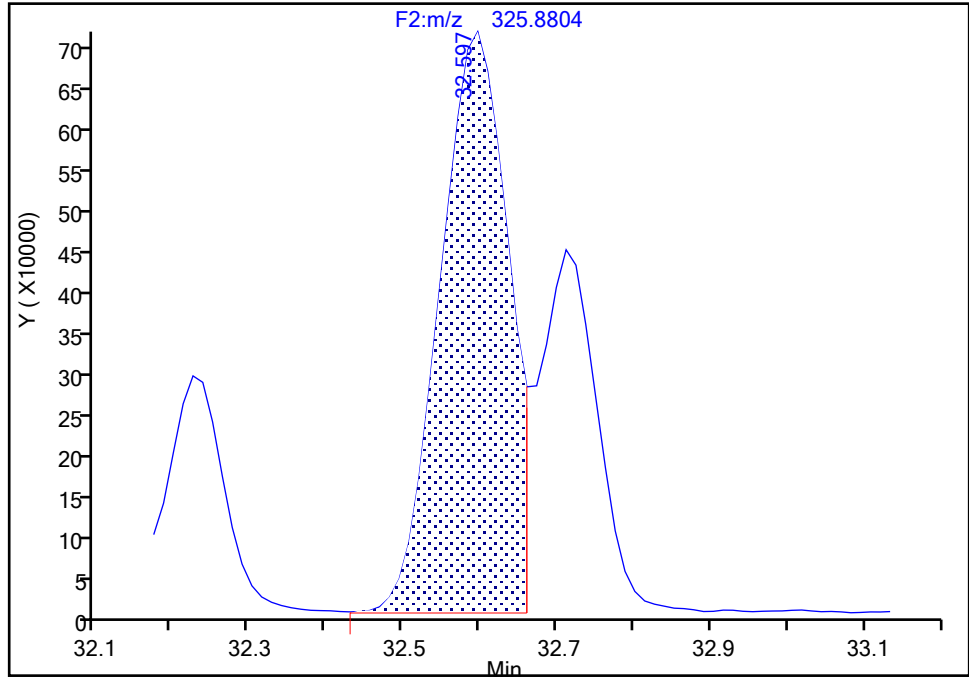
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

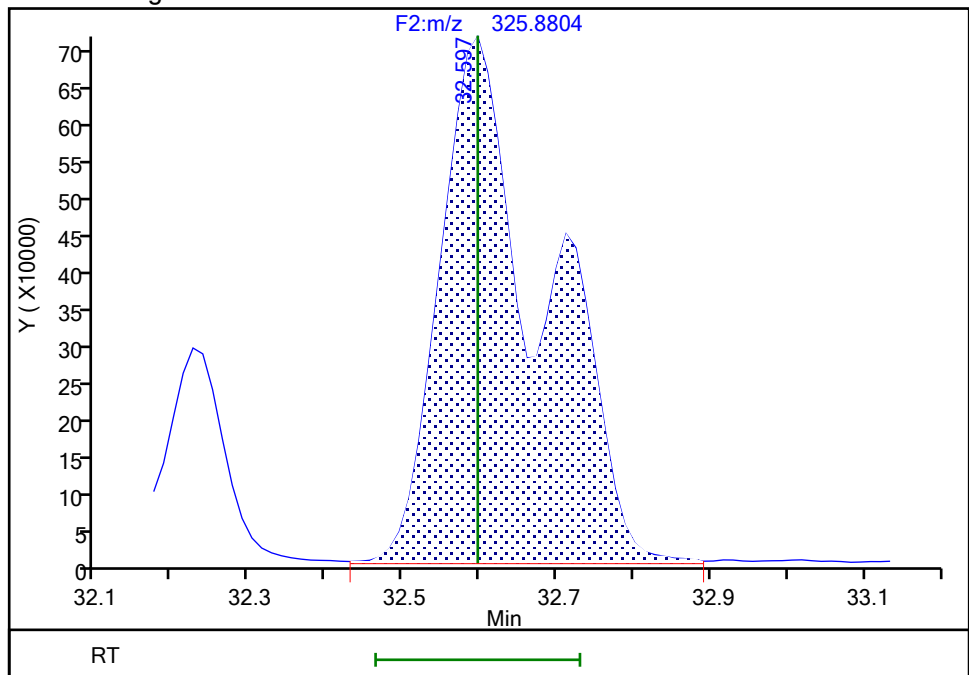
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Area: 4365827
Amount: 185.4421
Amount Units: pg/ul

Processing Integration Results



RT: 32.60
Area: 6691523
Amount: 285.0396
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:00:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 2808 of 3050BASFHCW-McIntosh-010809
9/6/2024
4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

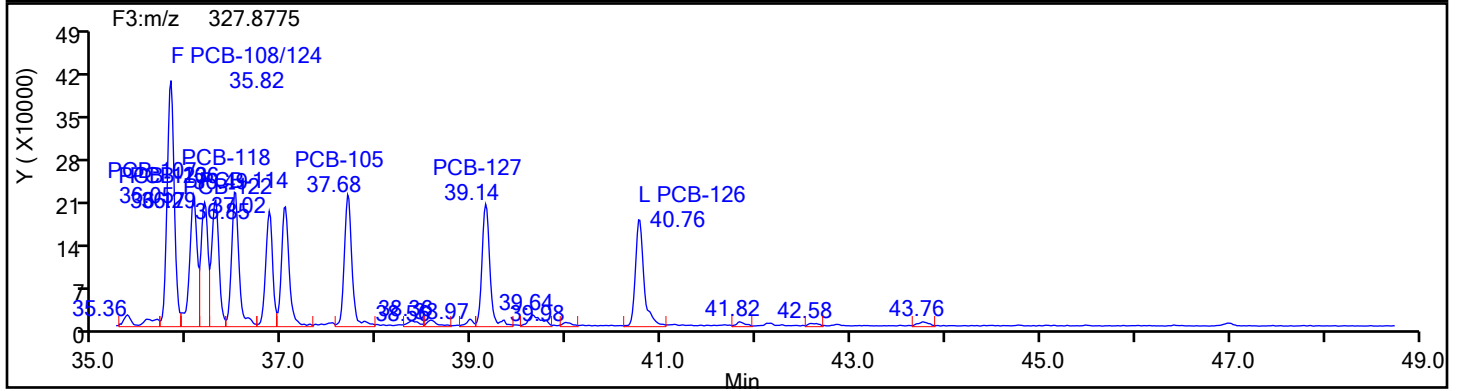
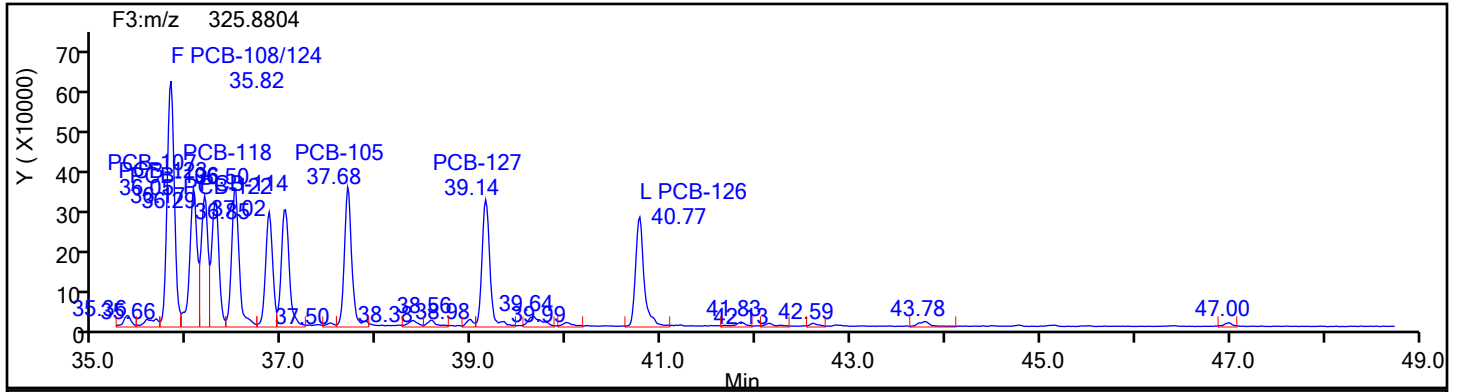
Worklist#: 88780

Sample Line#: 1

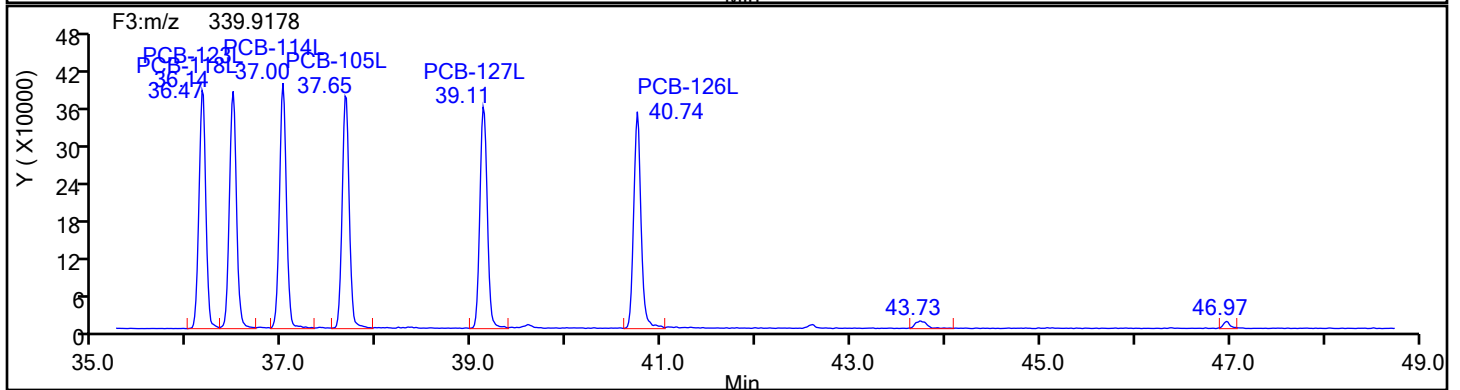
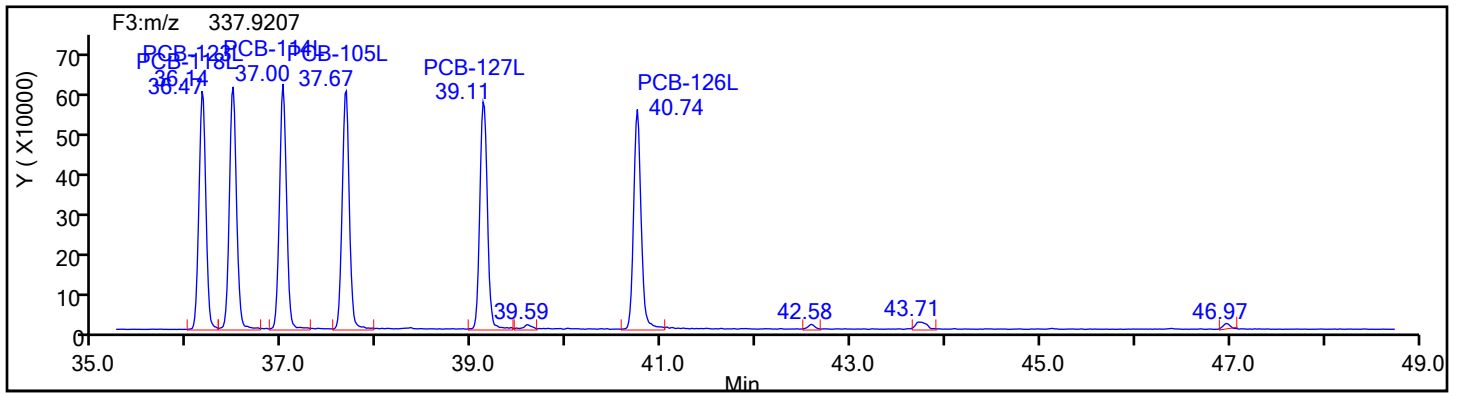
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

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Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

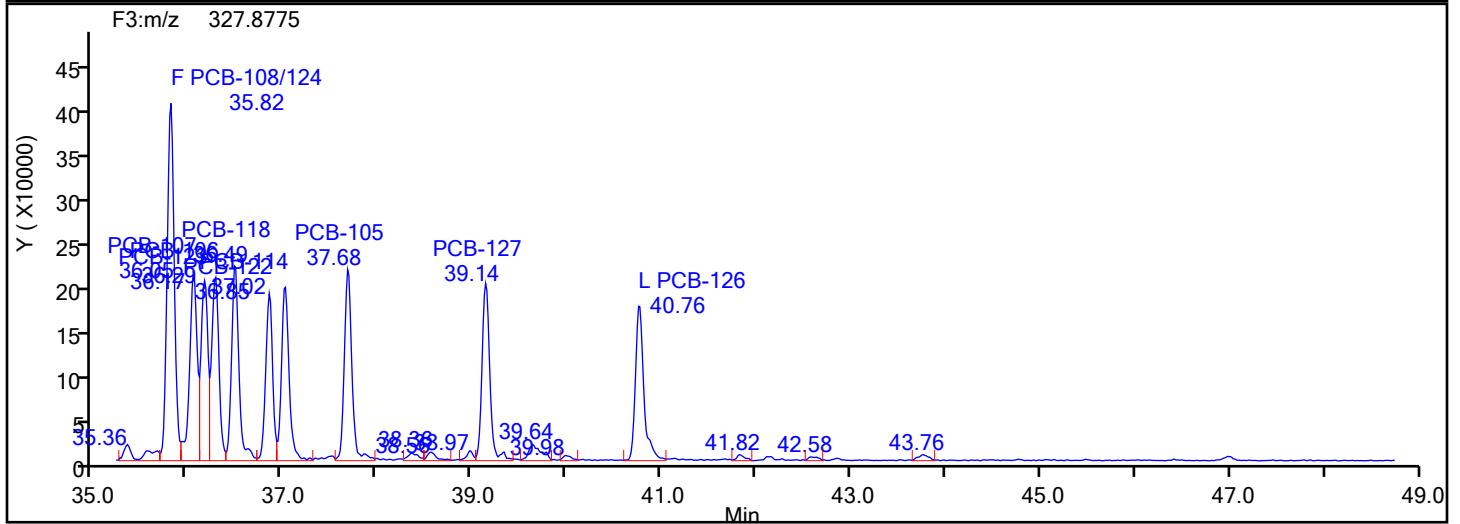
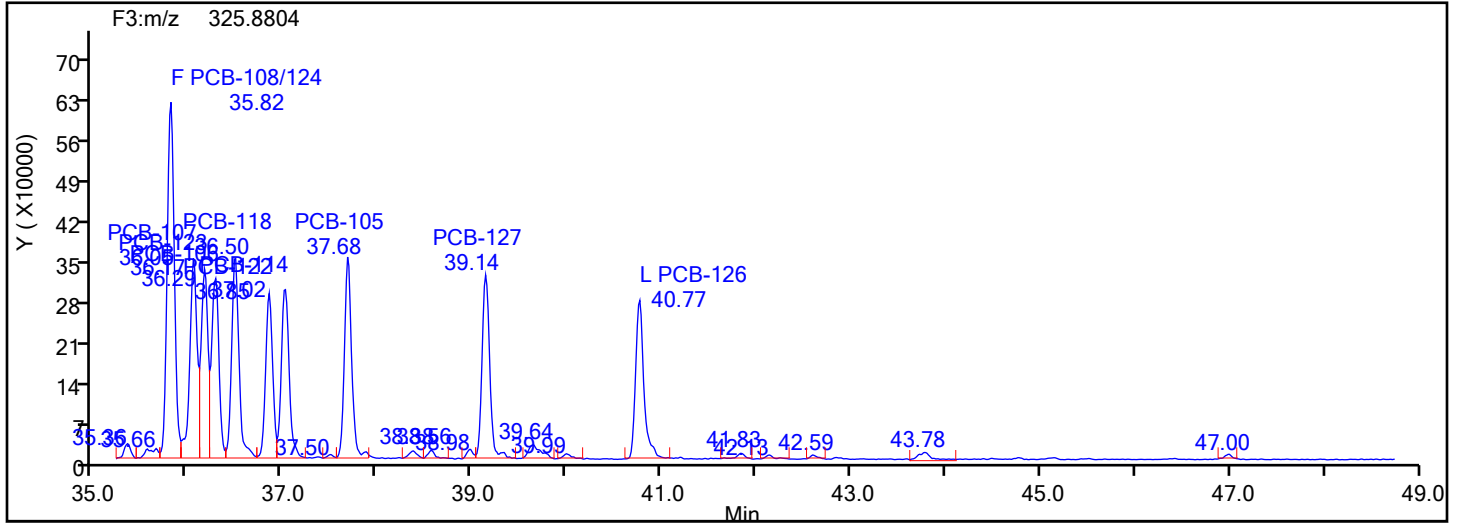
Worklist#: 88780

Sample Line#: 1

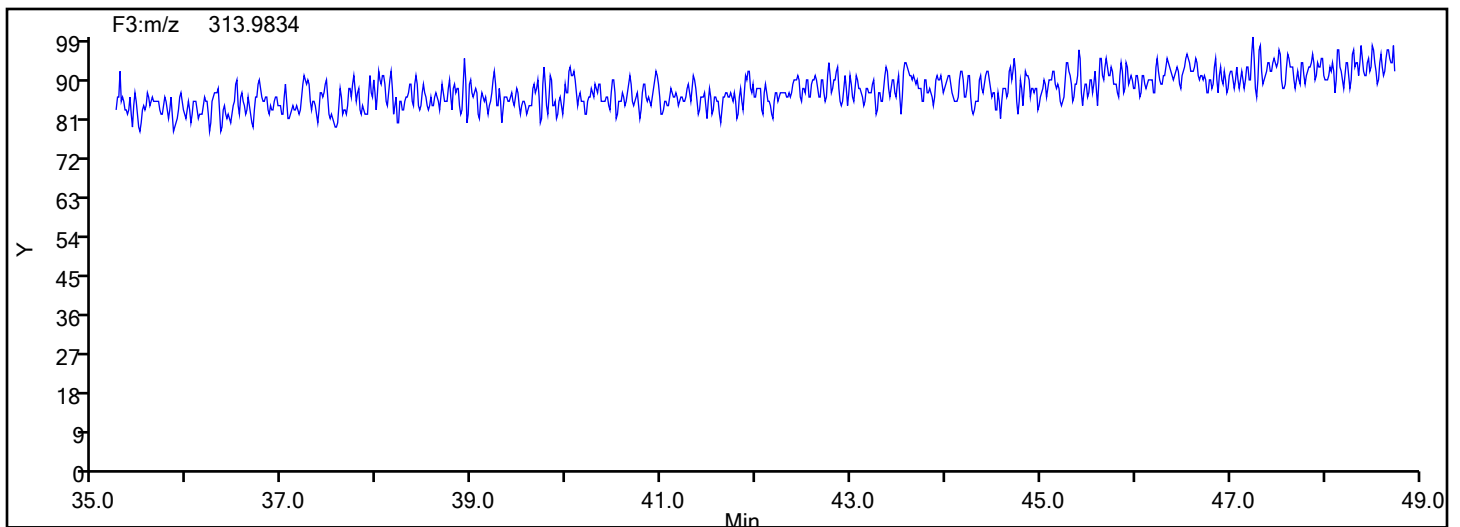
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

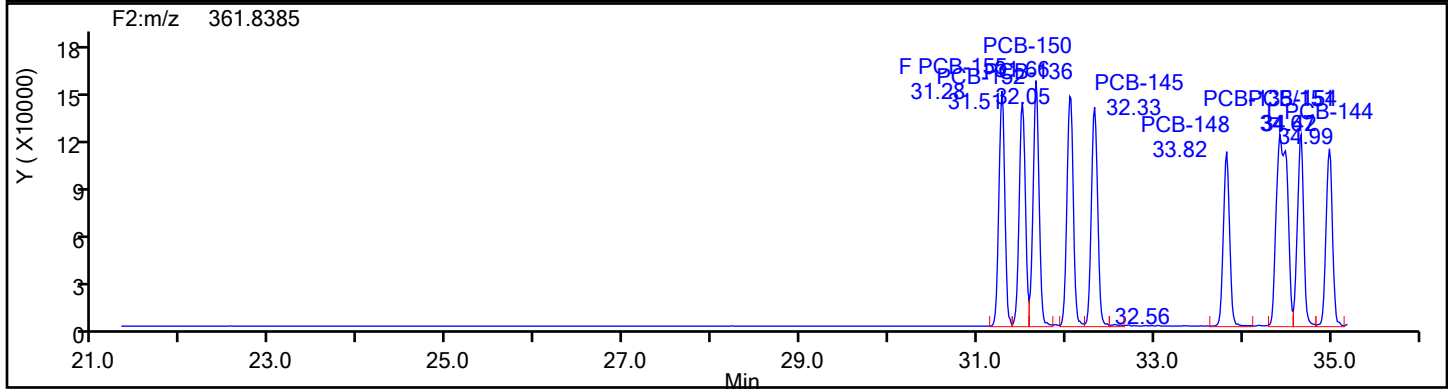
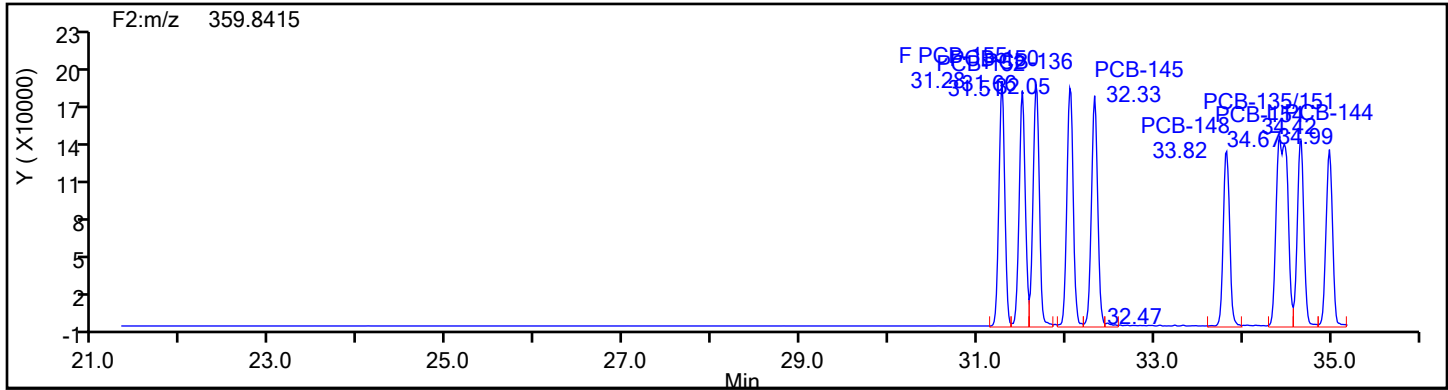
Worklist#: 88780

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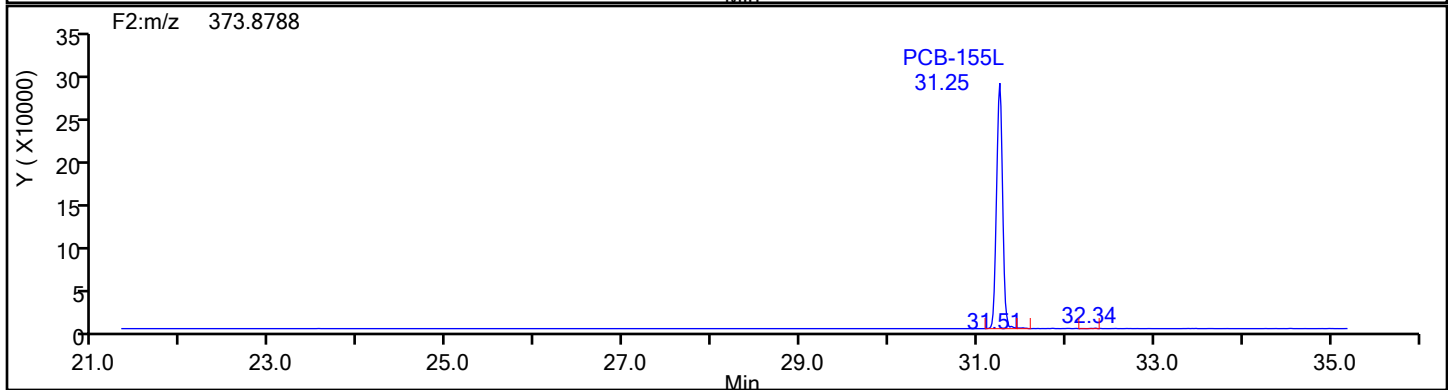
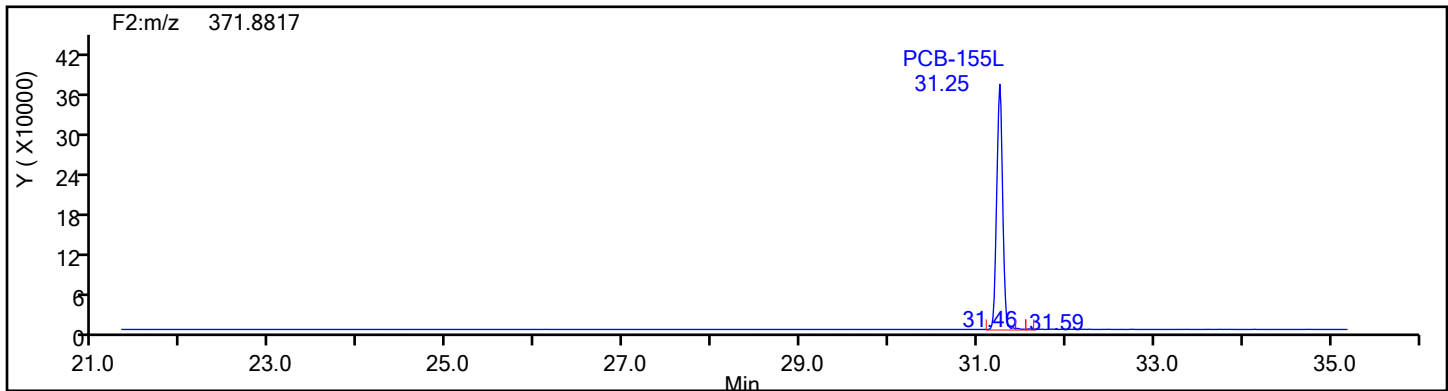
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

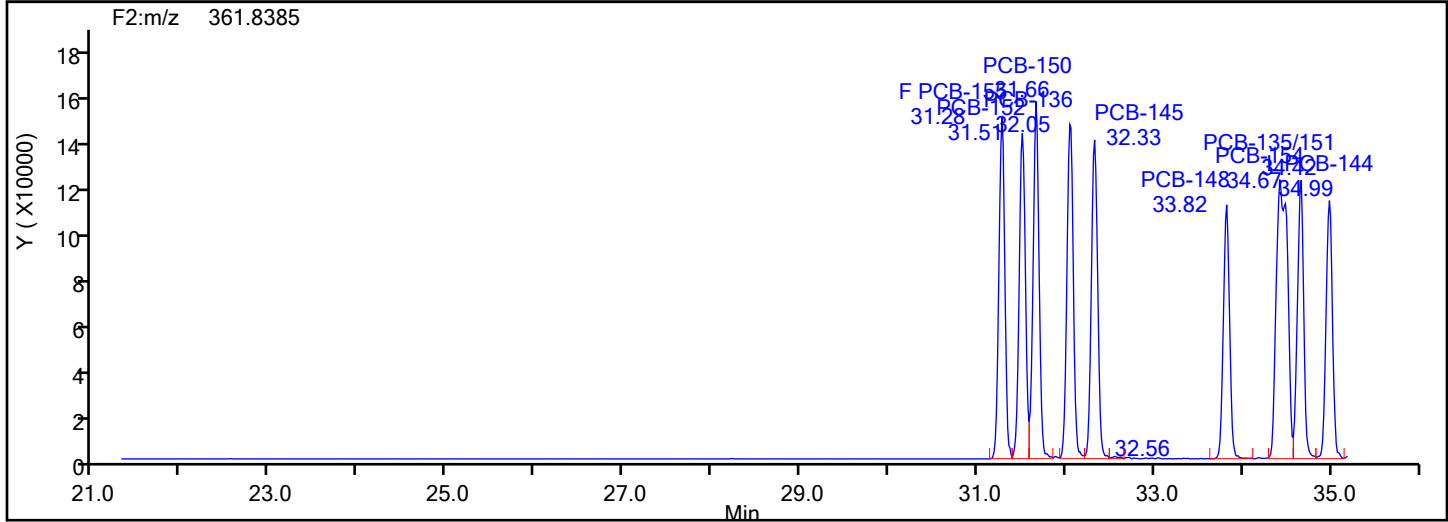
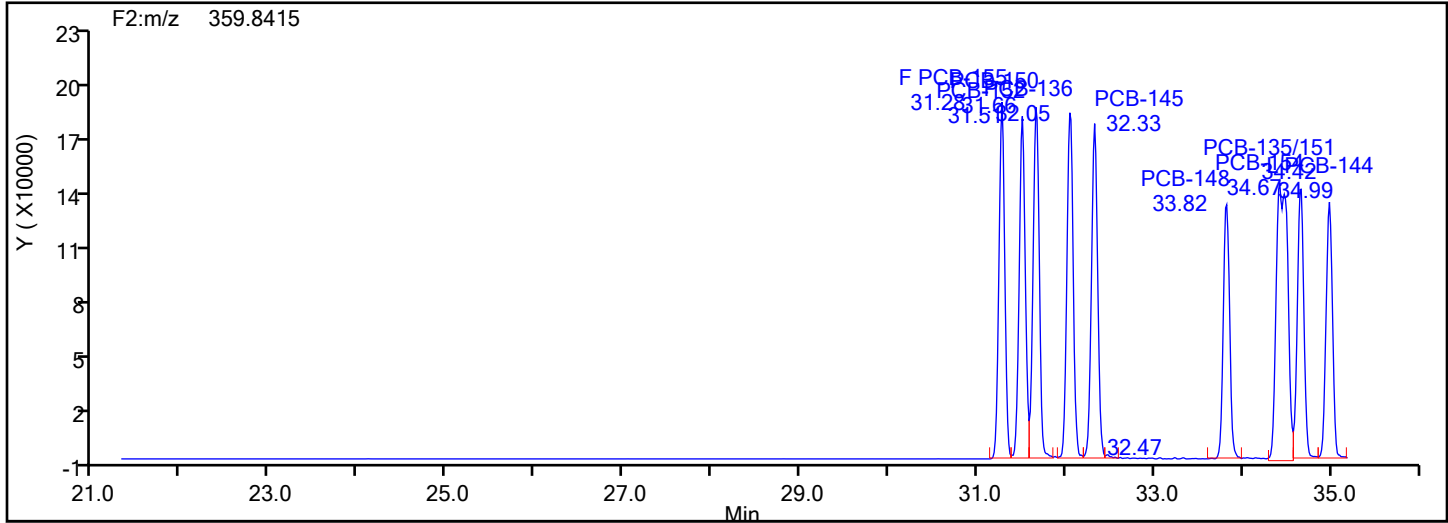
Worklist#: 88780

Sample Line#: 1

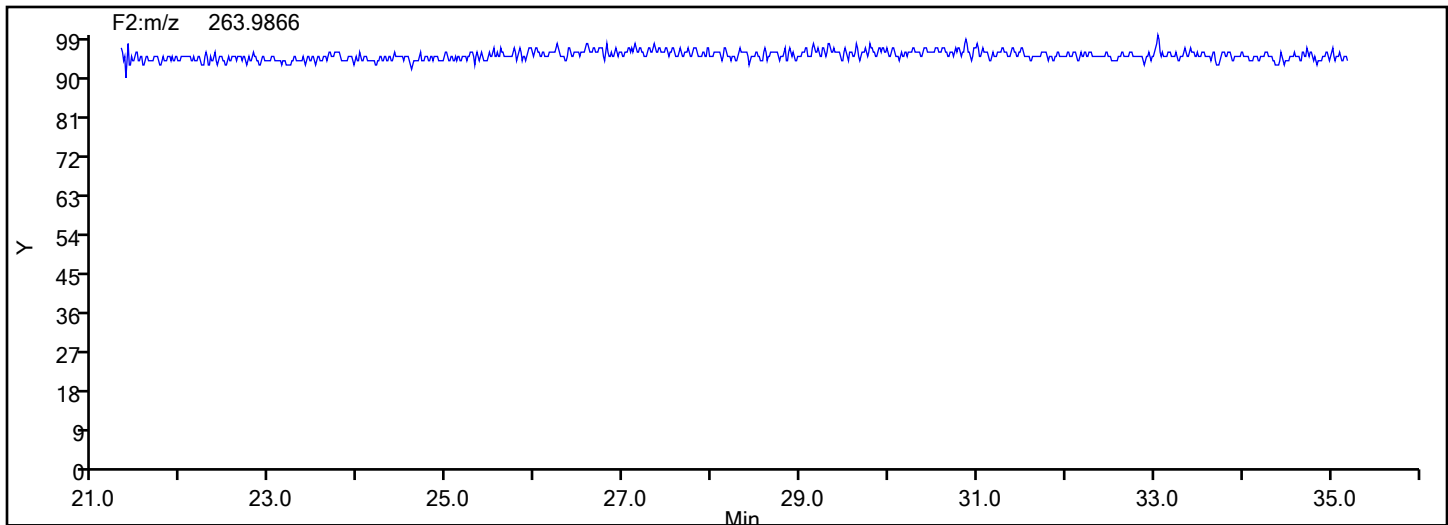
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

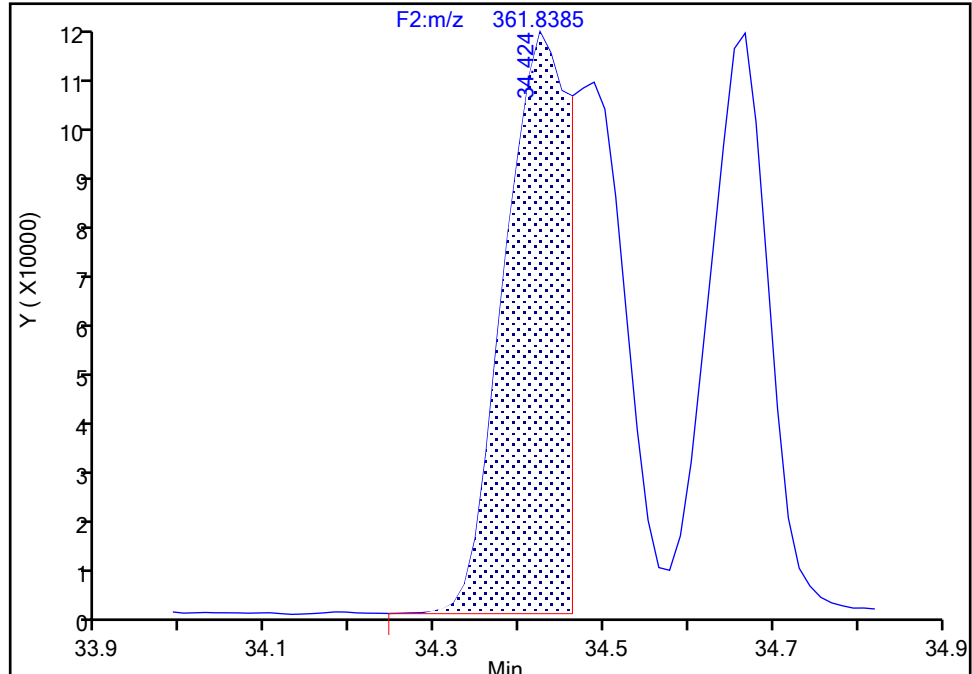
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector: F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 2

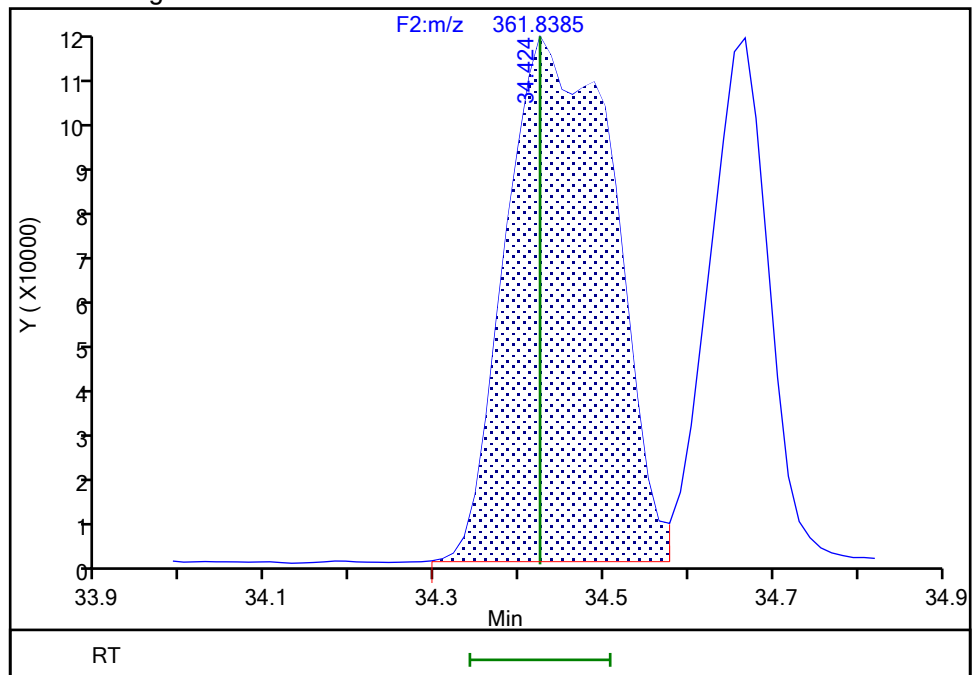
RT: 34.42
Area: 599613
Amount: 55.467513
Amount Units: pg/ul

Processing Integration Results



RT: 34.42
Area: 1041449
Amount: 105.8828
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:01:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

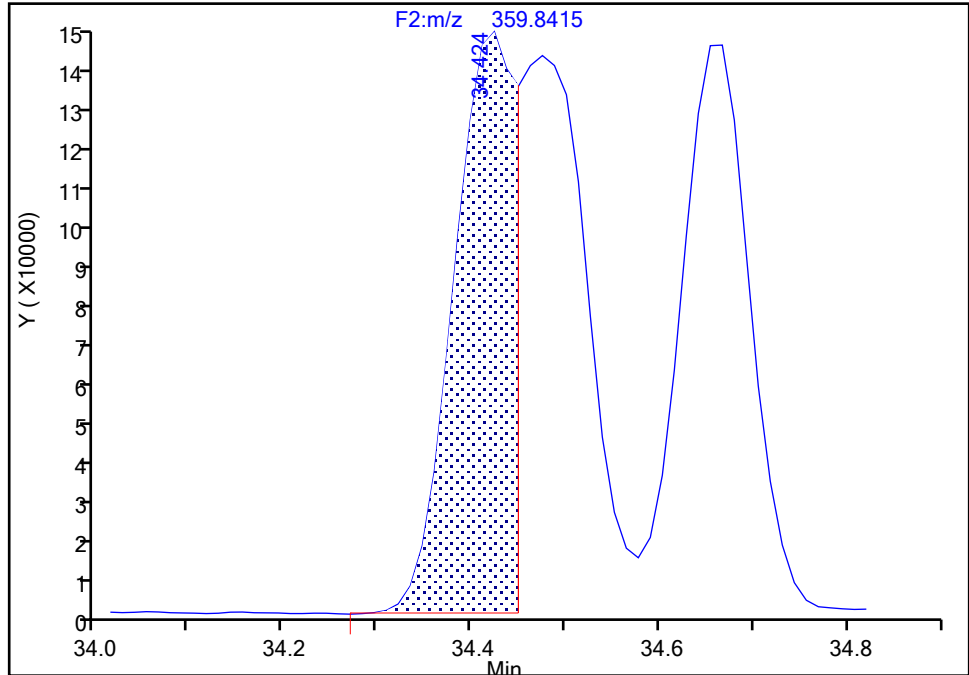
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F2(21.81 :35.54)

PCB-135/151, CAS: STL01819

Signal: 1

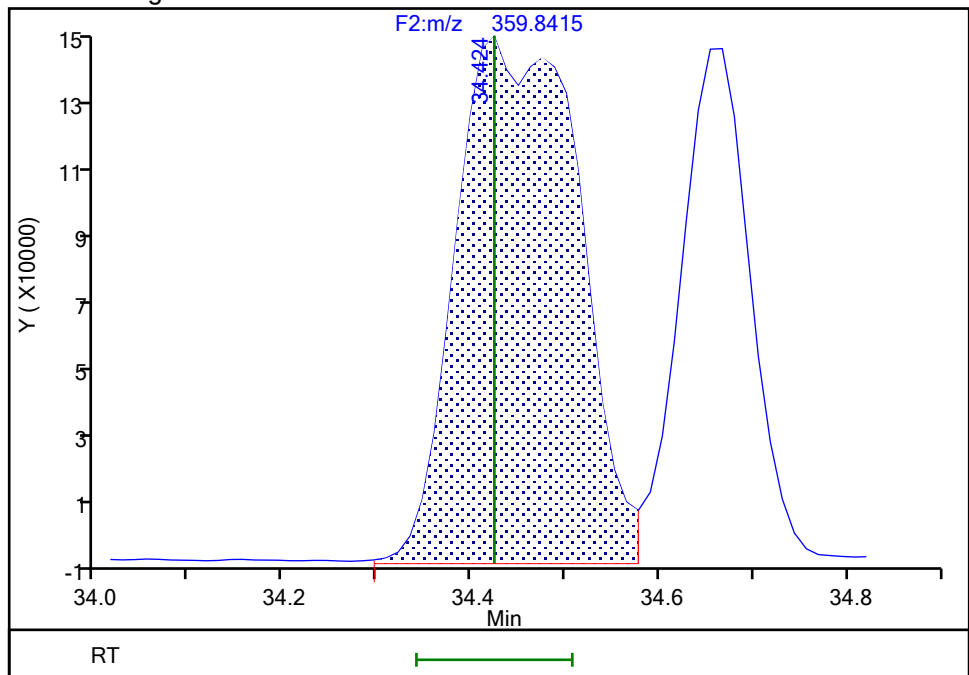
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Area: 646333
Amount: 55.467513
Amount Units: pg/ul

Processing Integration Results



RT: 34.42
Area: 1336956
Amount: 105.8828
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:01:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline
Page 2814 of 3050BASFWHC-McIntosh-010815
9/6/2024
4:11:20 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Vol: 1.0 ul

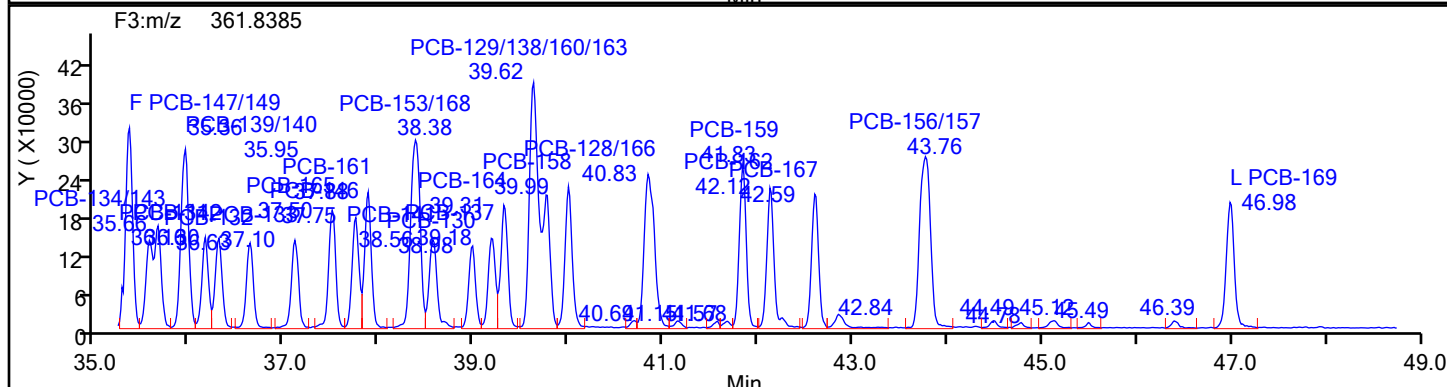
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

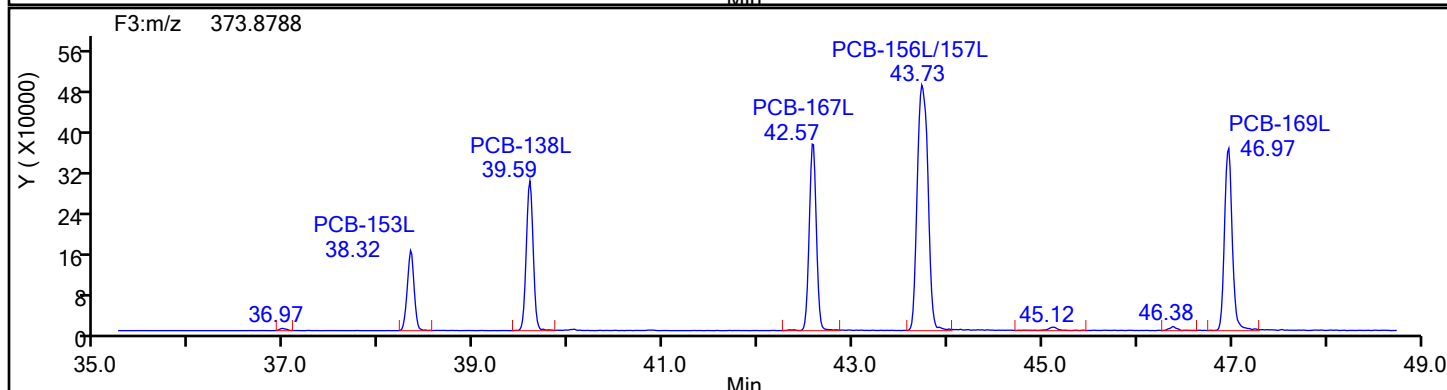
Sample Line#: 1

Column Dia: 0.25 mm

HxPCB F3



HxCPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

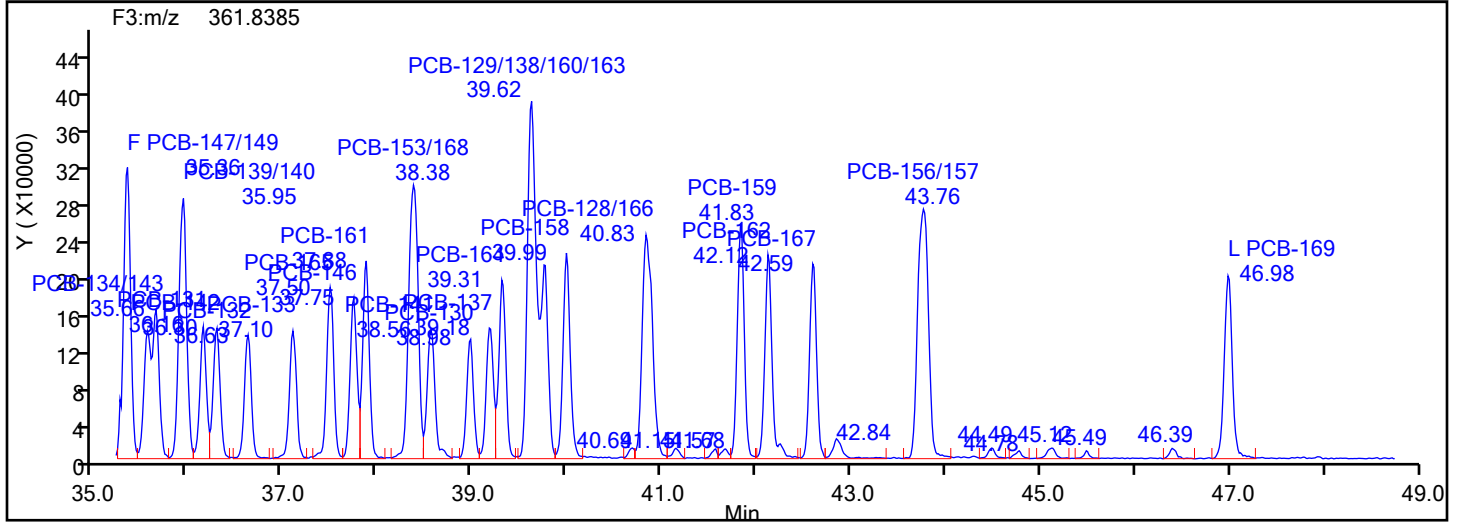
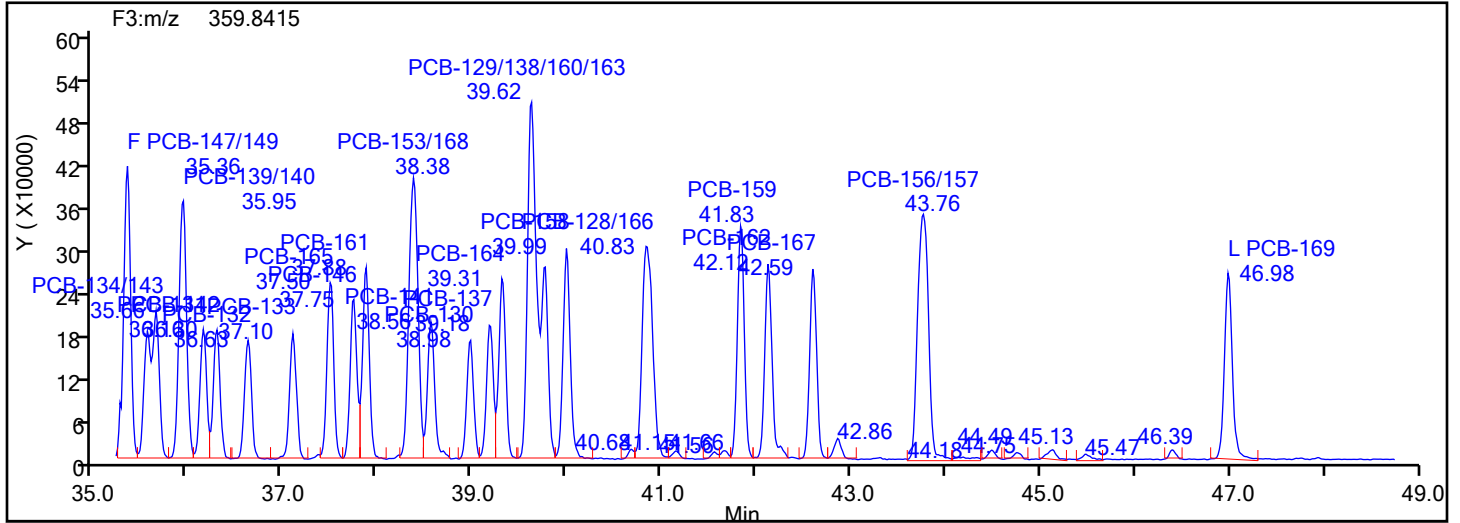
Worklist#: 88780

Sample Line#: 1

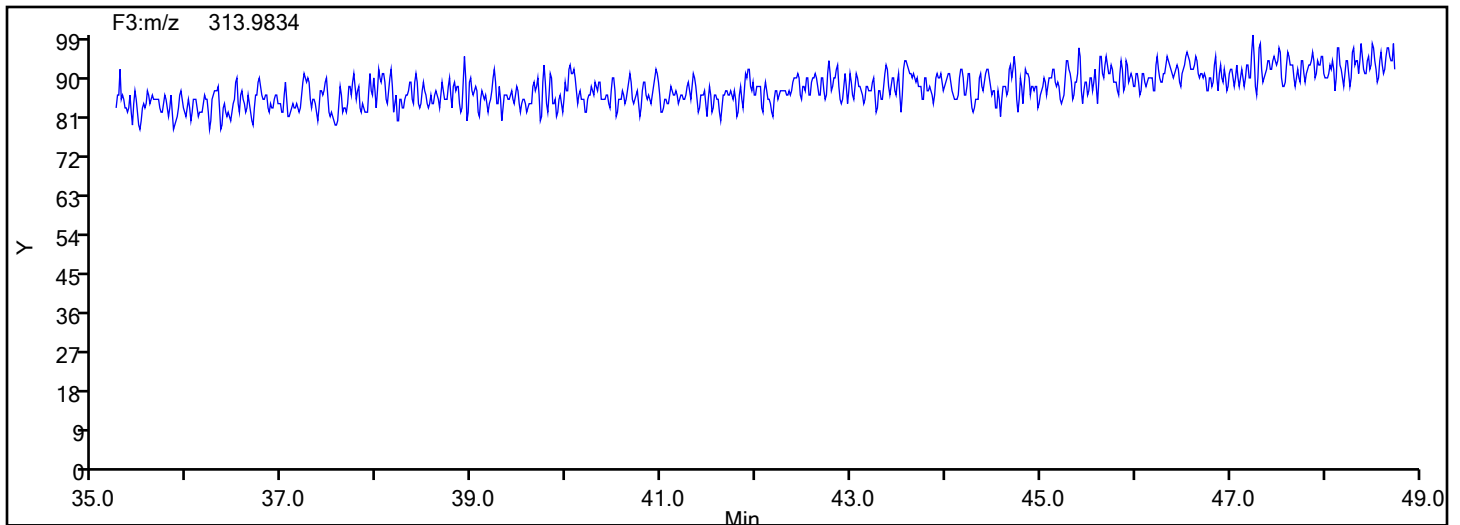
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

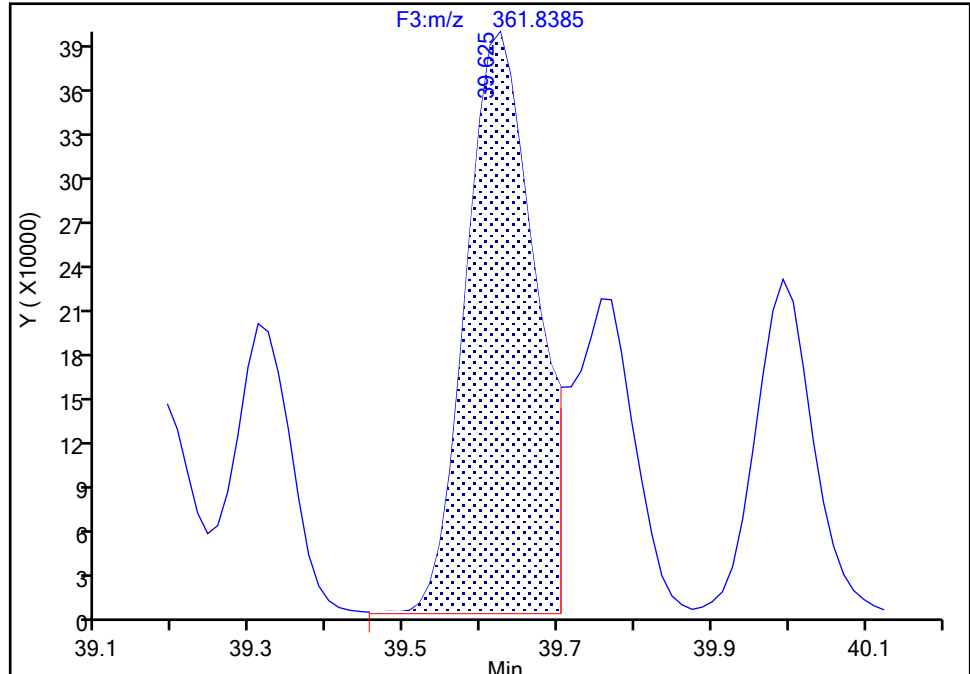
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

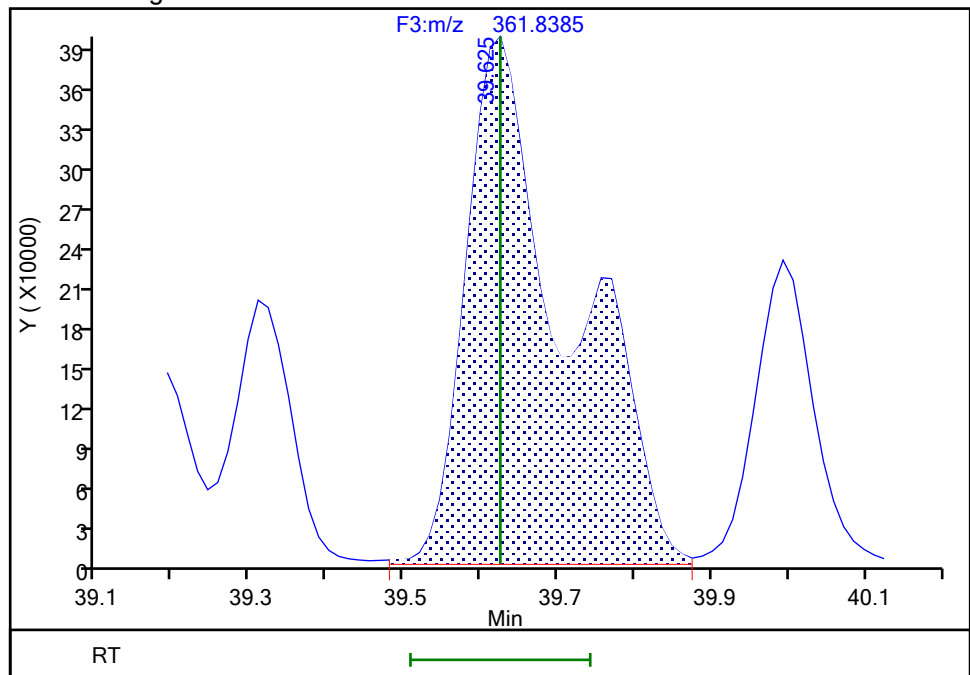
RT: 39.62
Area: 2430624
Amount: 133.6266
Amount Units: pg/ul

Processing Integration Results



RT: 39.62
Area: 3615836
Amount: 192.7273
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:01:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

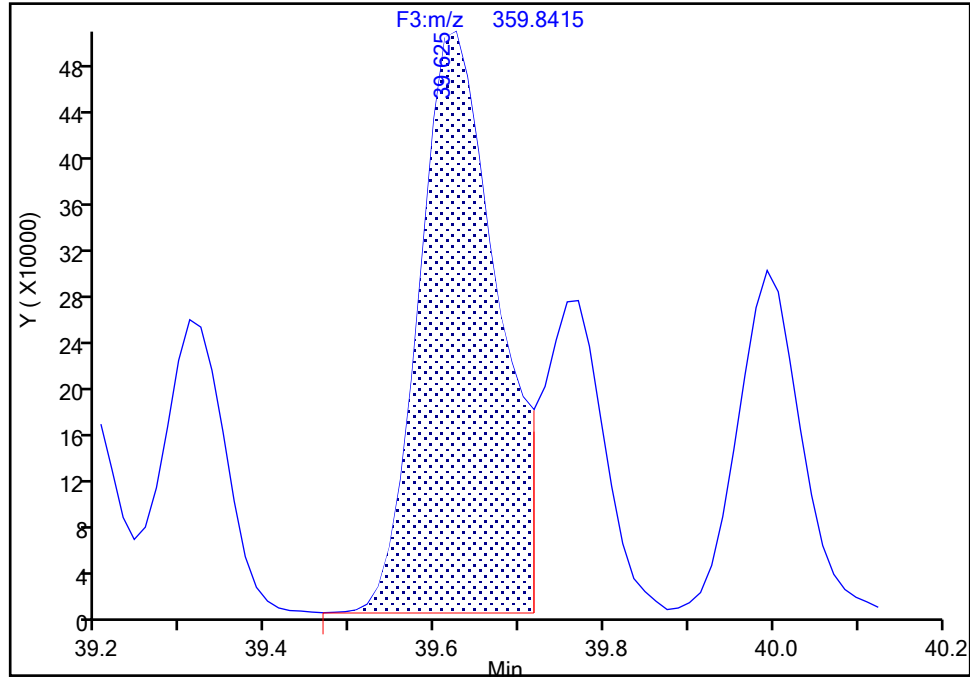
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

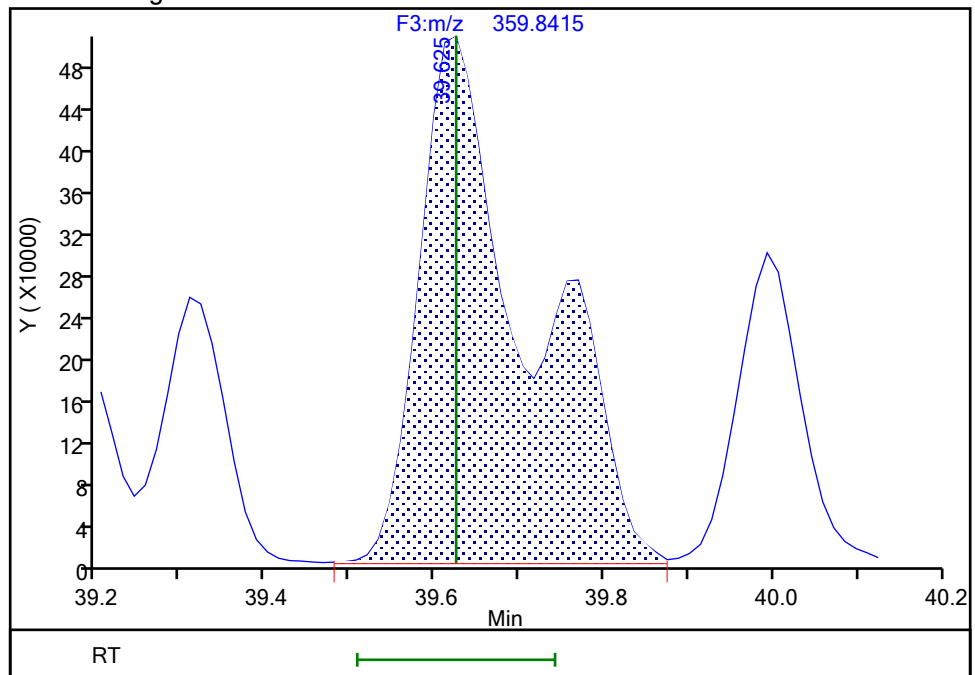
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Area: 3209154
Amount: 133.6266
Amount Units: pg/ul

Processing Integration Results



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Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:01:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2818 of 3050

BASFWHC-McIntosh-010819

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

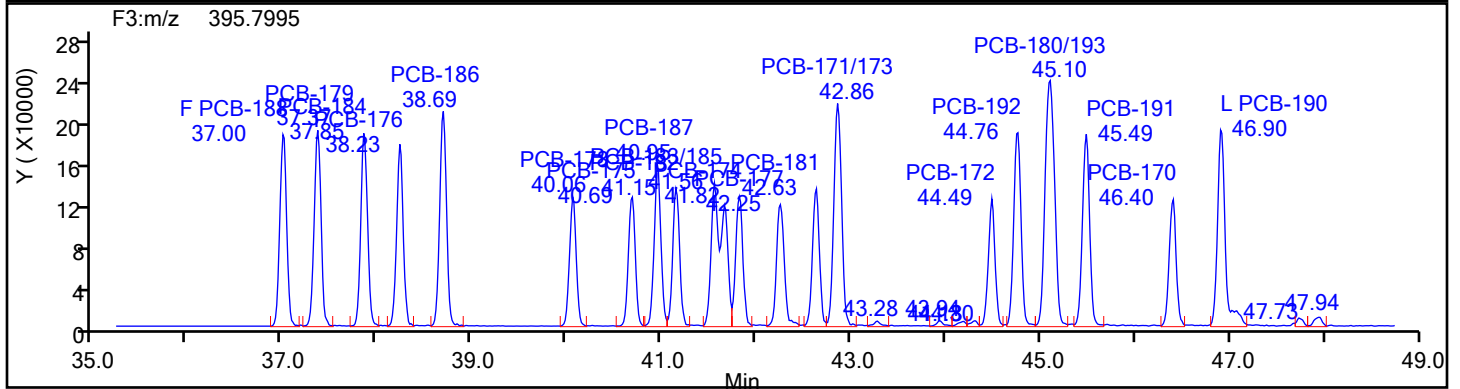
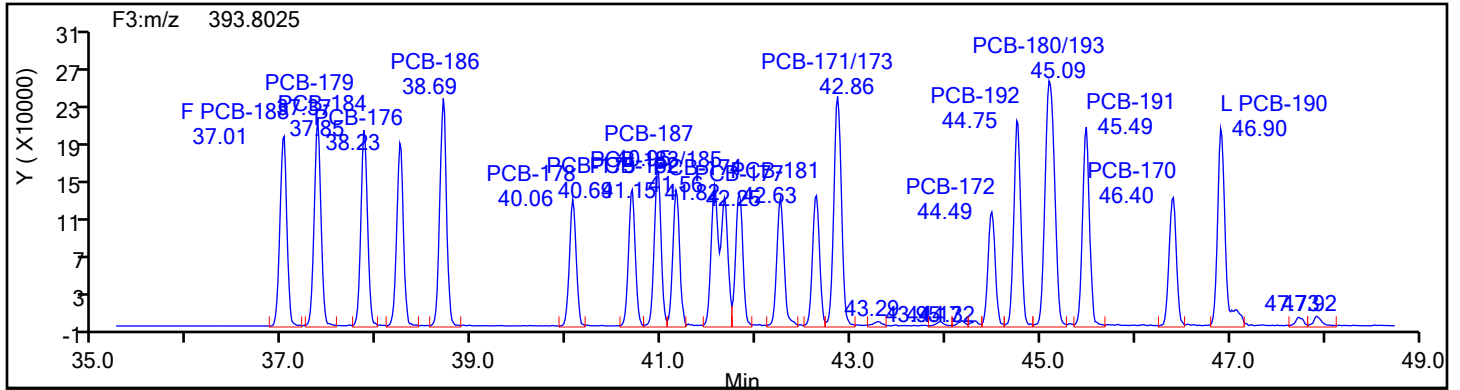
Worklist#: 88780

Sample Line#: 1

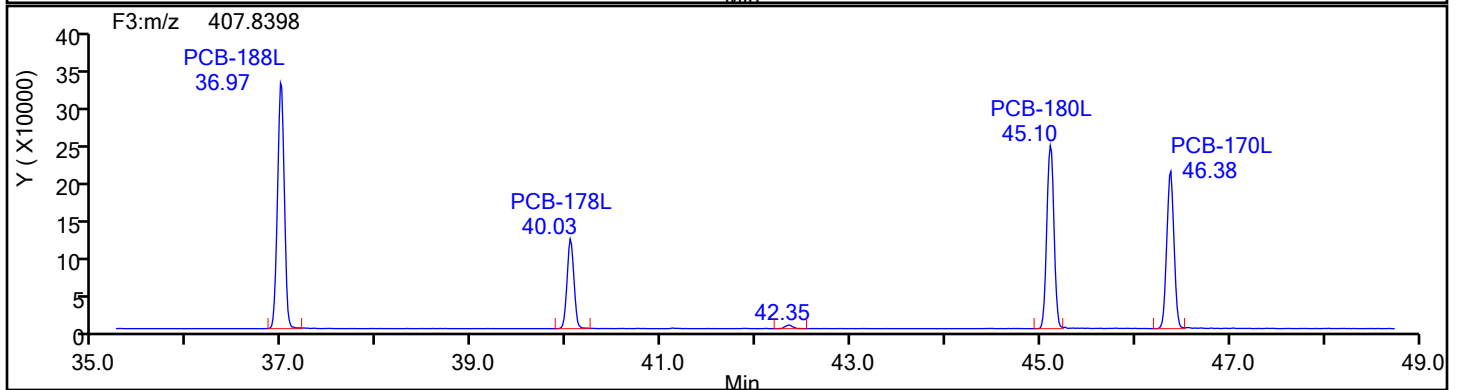
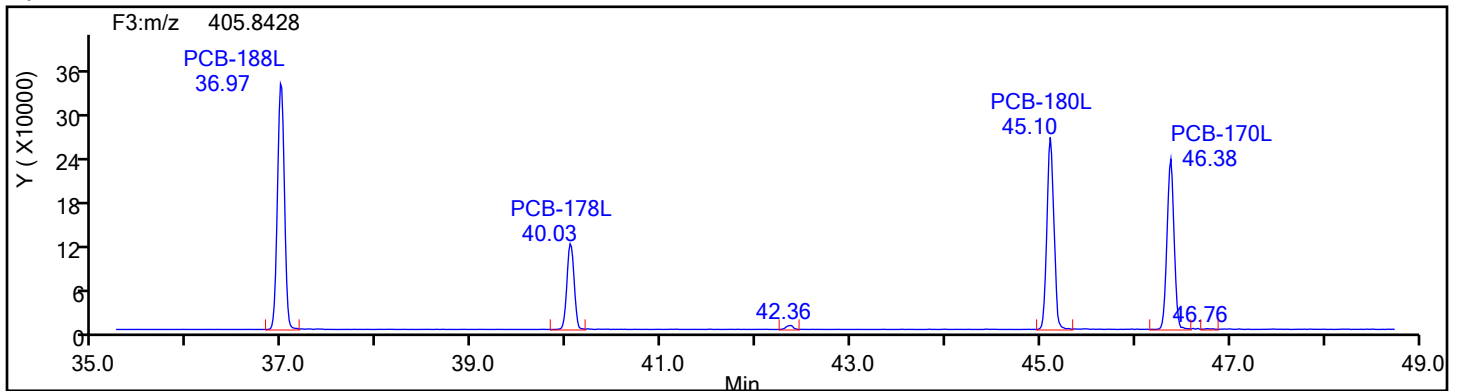
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

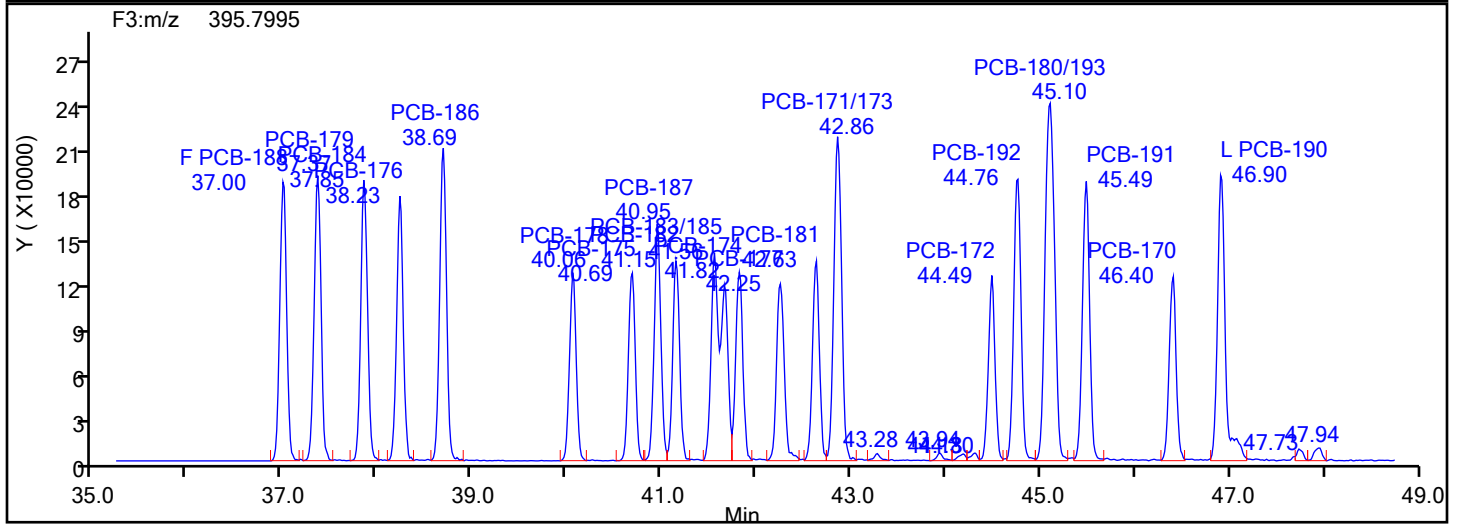
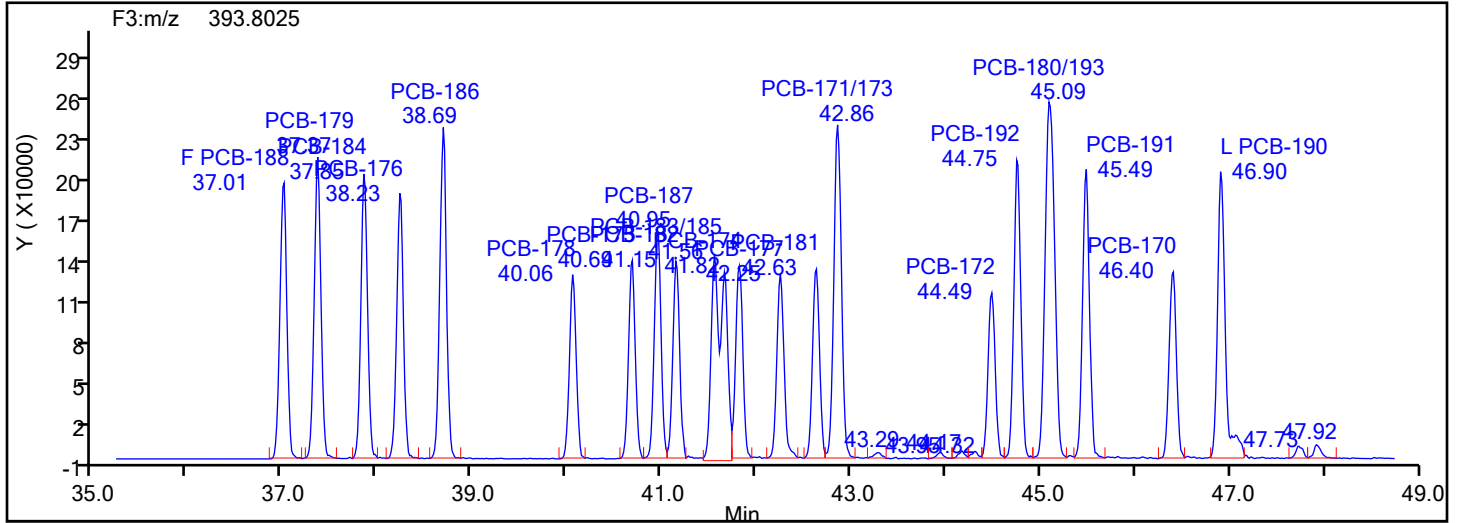
Worklist#: 88780

Sample Line#: 1

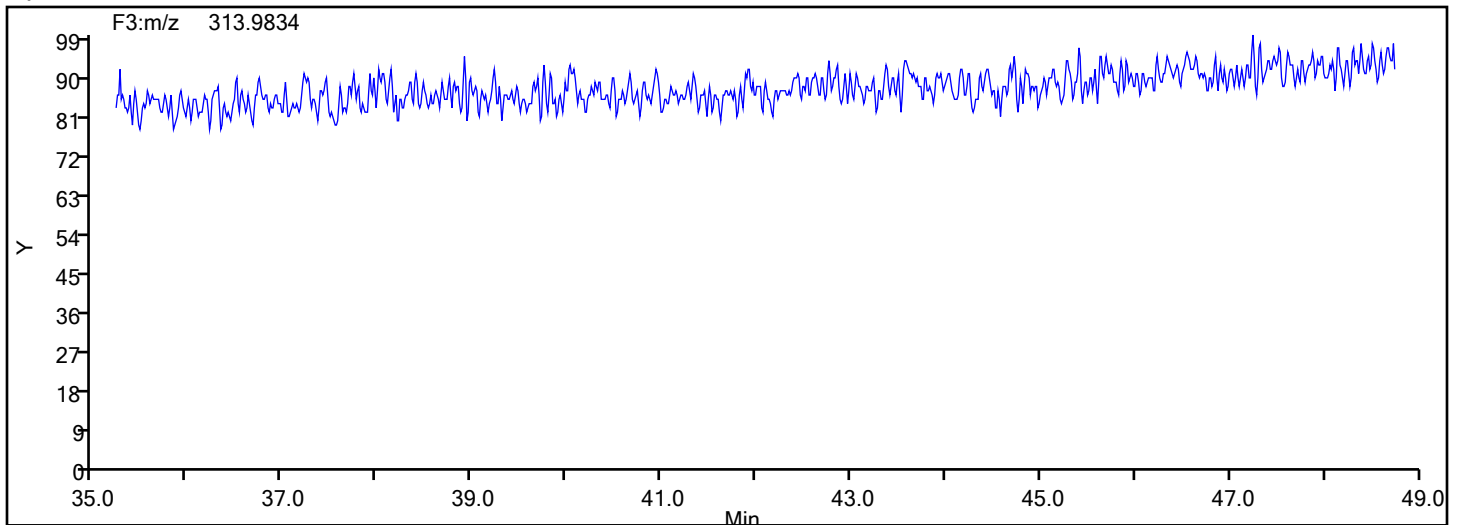
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

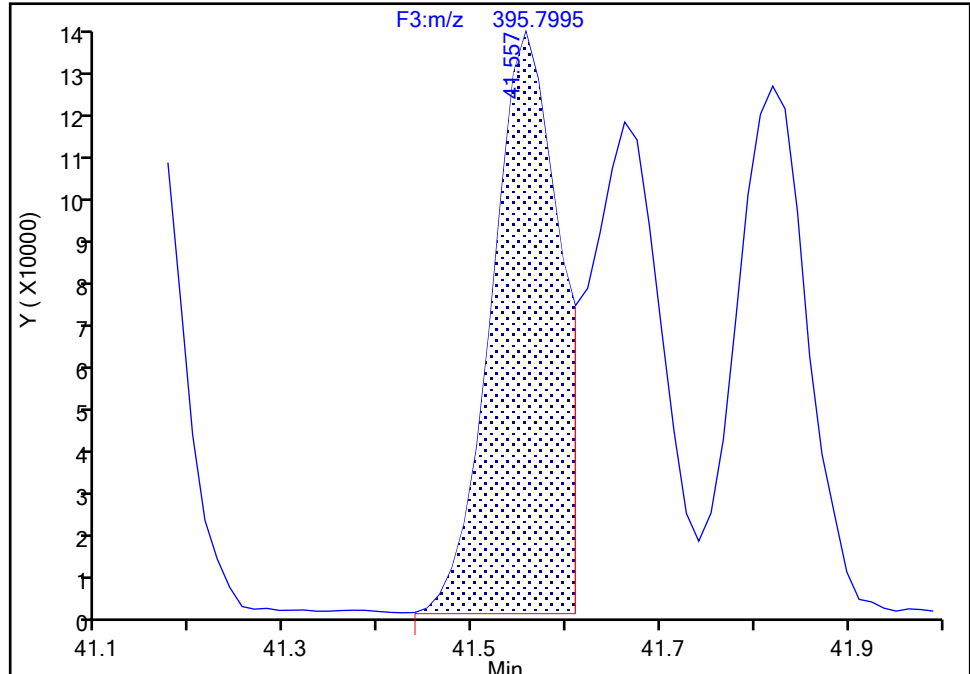
F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

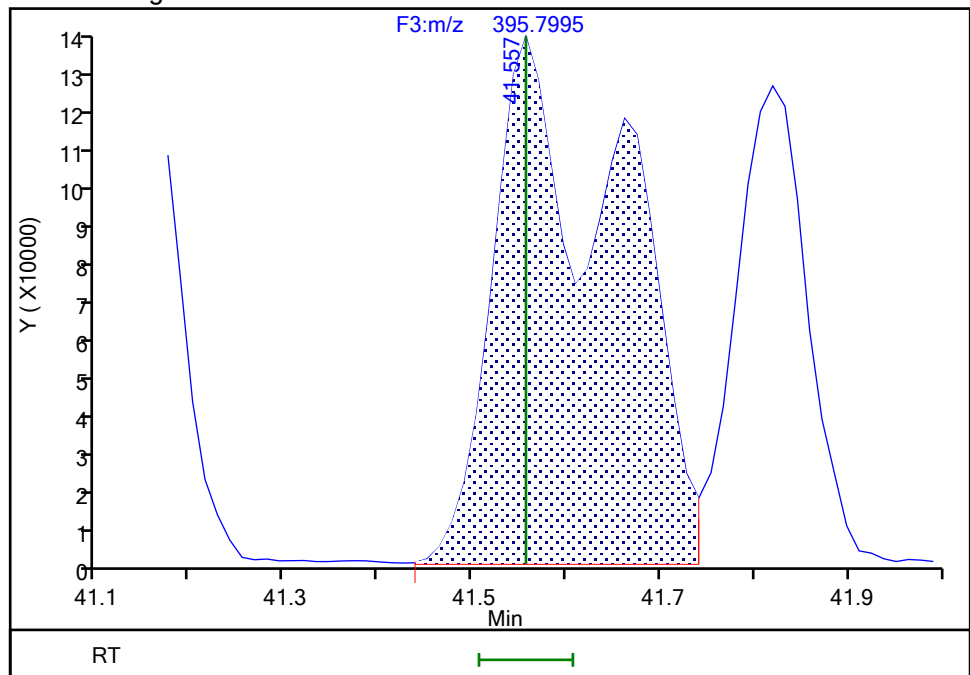
RT: 41.56
Area: 689870
Amount: 50.008921
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1302900
Amount: 96.244627
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:02:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

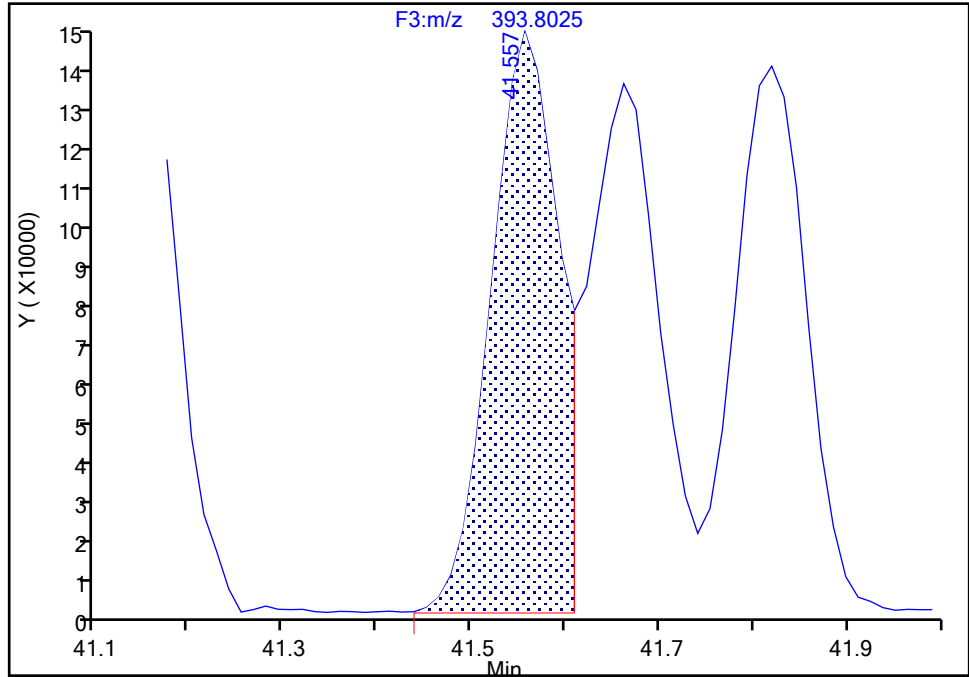
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

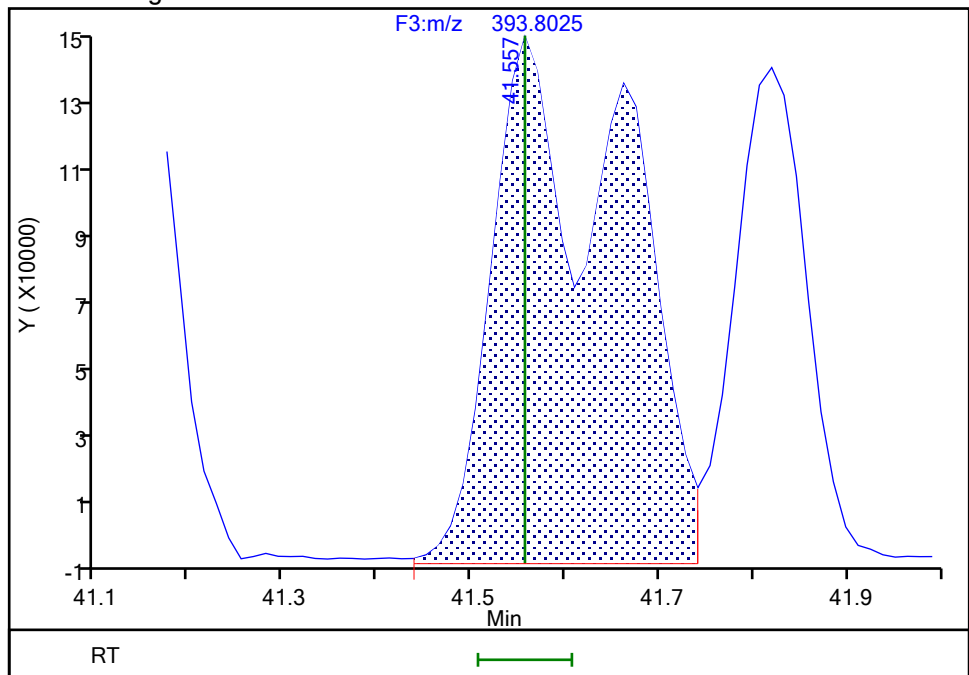
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Area: 719485
Amount: 50.008921
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1409473
Amount: 96.244627
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:02:39 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2822 of 3050

BASFWHC-McIntosh-010823

9/6/2024

4:11:20 PM

Eurofins Knoxville

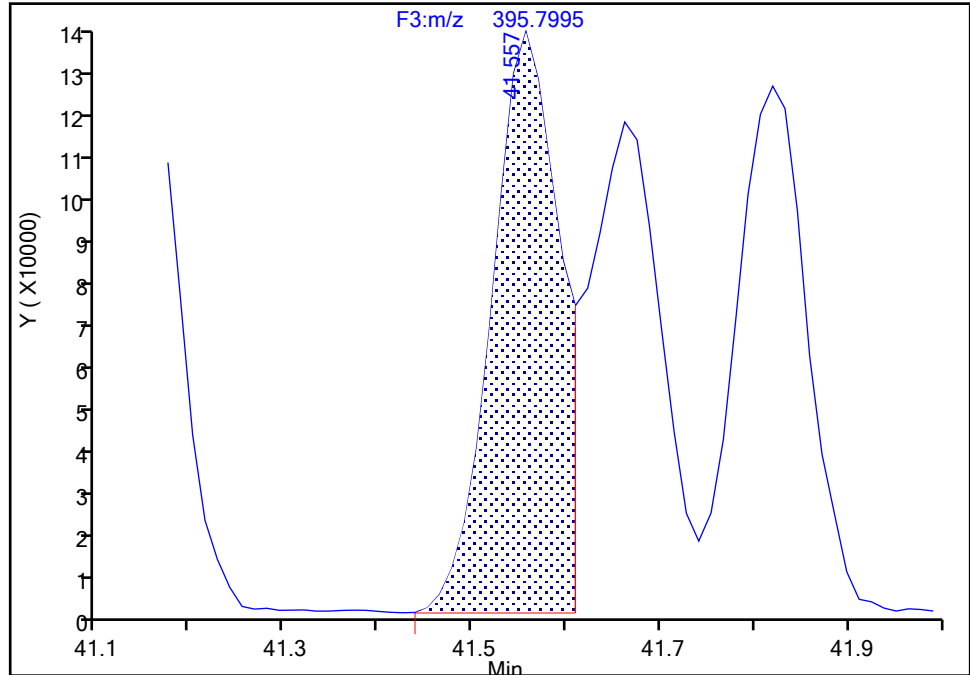
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 2

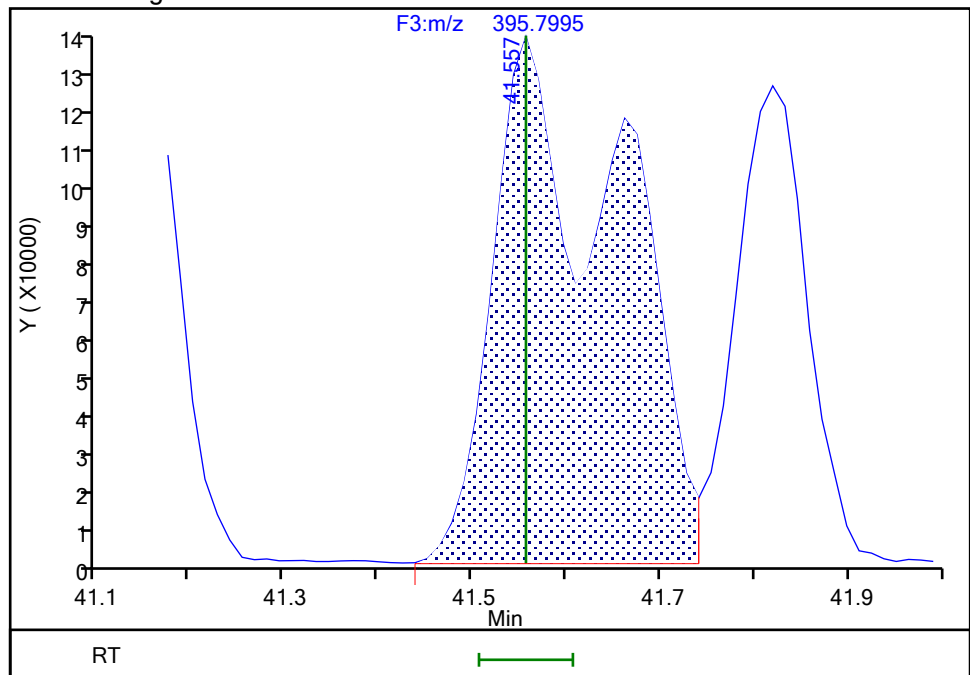
RT: 41.56
Area: 689870
Amount: 50.008921
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1302900
Amount: 96.244627
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:02:39 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2823 of 3050

BASFWC-McIntosh-010824

9/6/2024

4:11:20 PM

Eurofins Knoxville

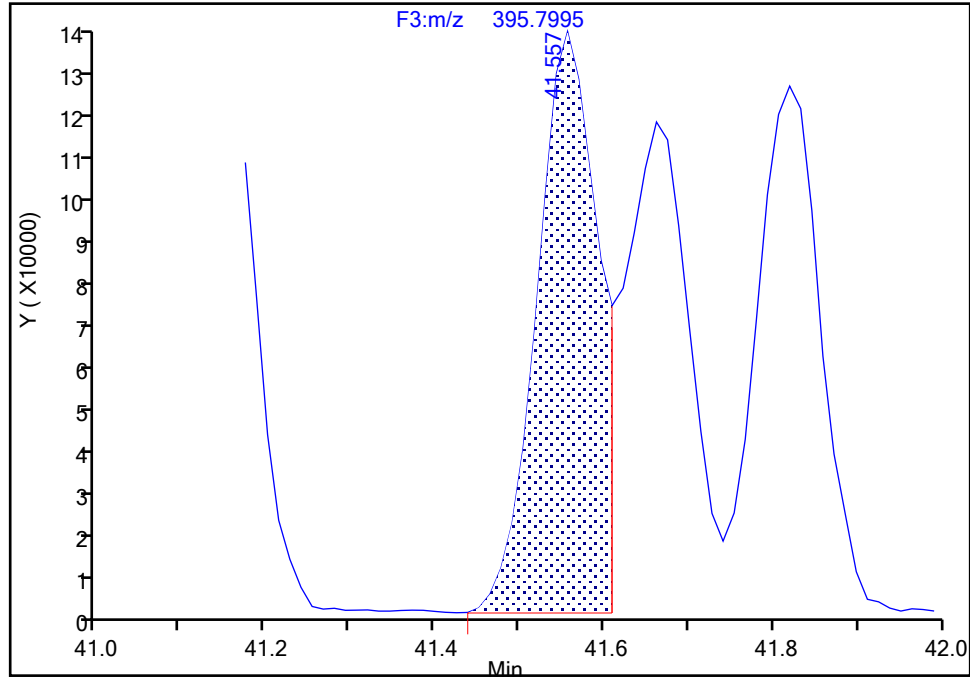
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 3

RT: 41.56
Area: 1409355
Amount: 50.008921
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 41.56
Area: 2712373
Amount: 96.244627
Amount Units: pg/ul

Reviewer: V4XA, 16-Jul-2024 02:02:39 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

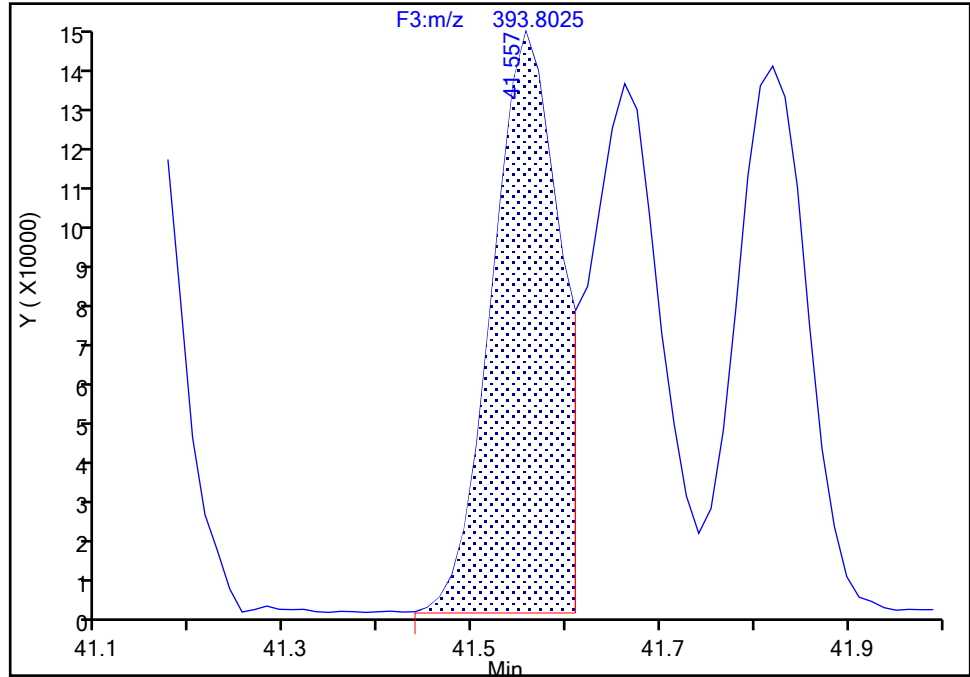
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Injection Date: 16-Jul-2024 00:00:00 Instrument ID: D2D
Lims ID: WDMCCV
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-183/185, CAS: STL02297

Signal: 1

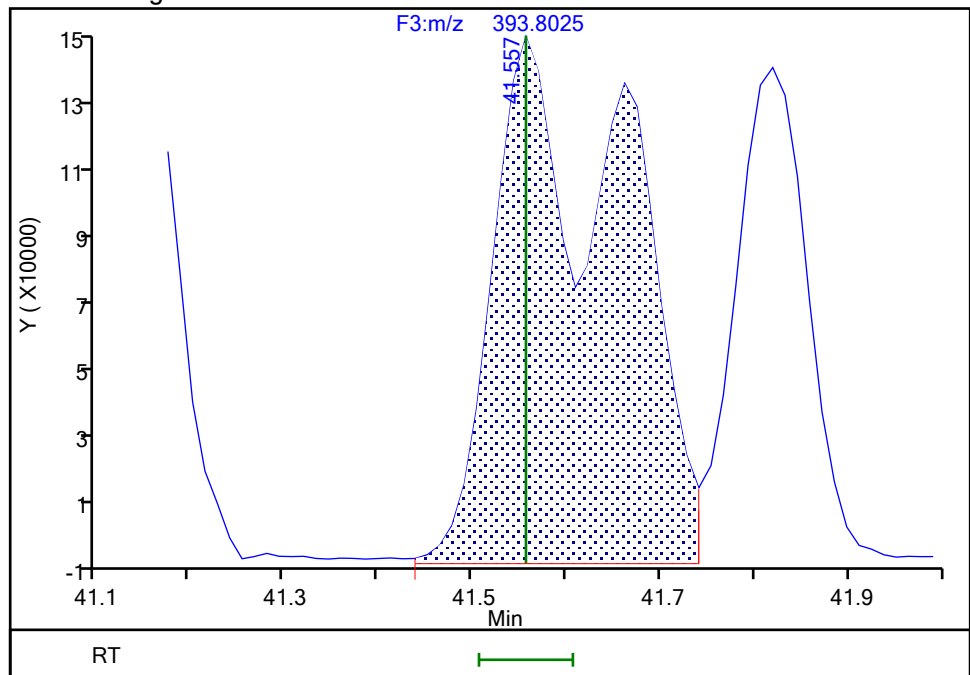
RT: 41.56
Area: 719485
Amount: 50.008921
Amount Units: pg/ul

Processing Integration Results



RT: 41.56
Area: 1409473
Amount: 96.244627
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 16-Jul-2024 02:02:41 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

Page 2825 of 3050

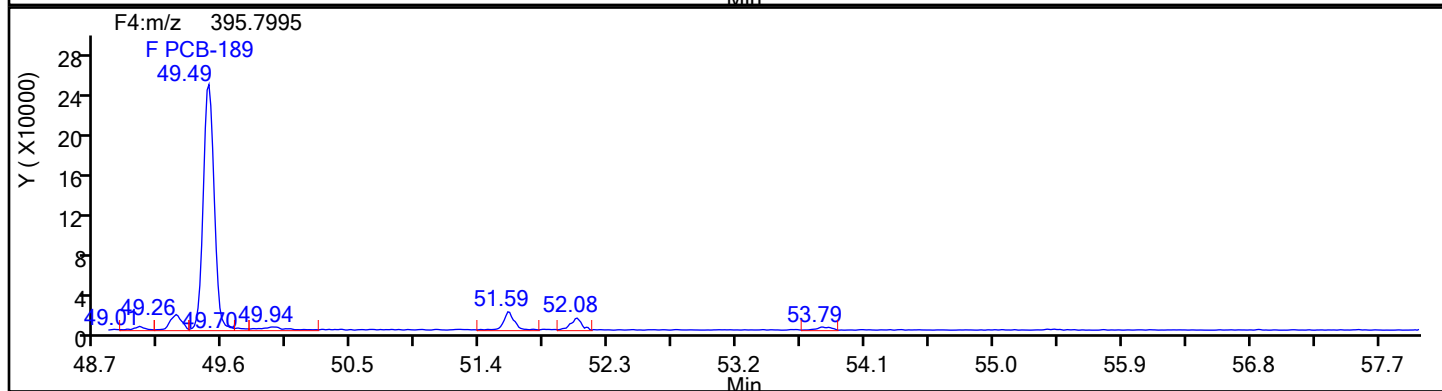
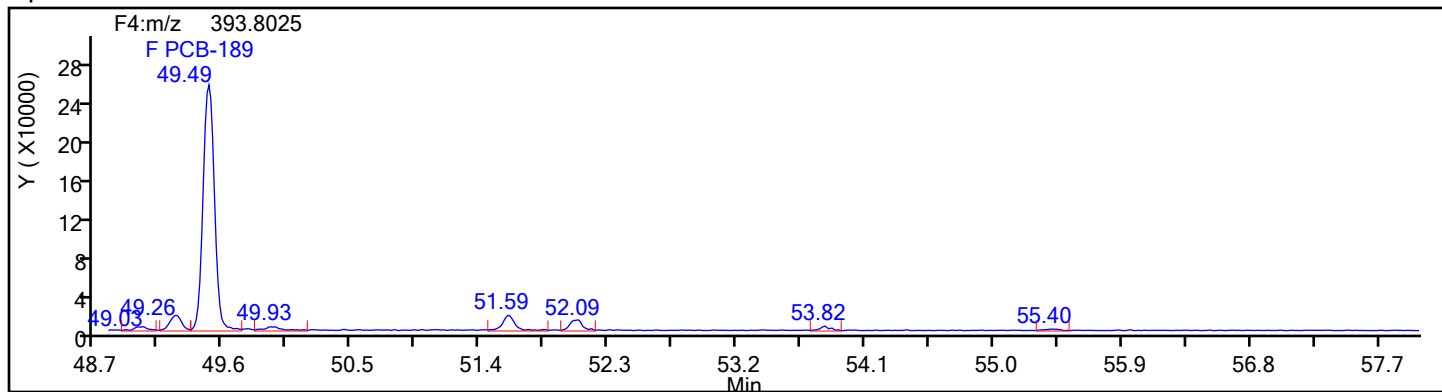
BASFWHC-McIntosh-010826

9/6/2024

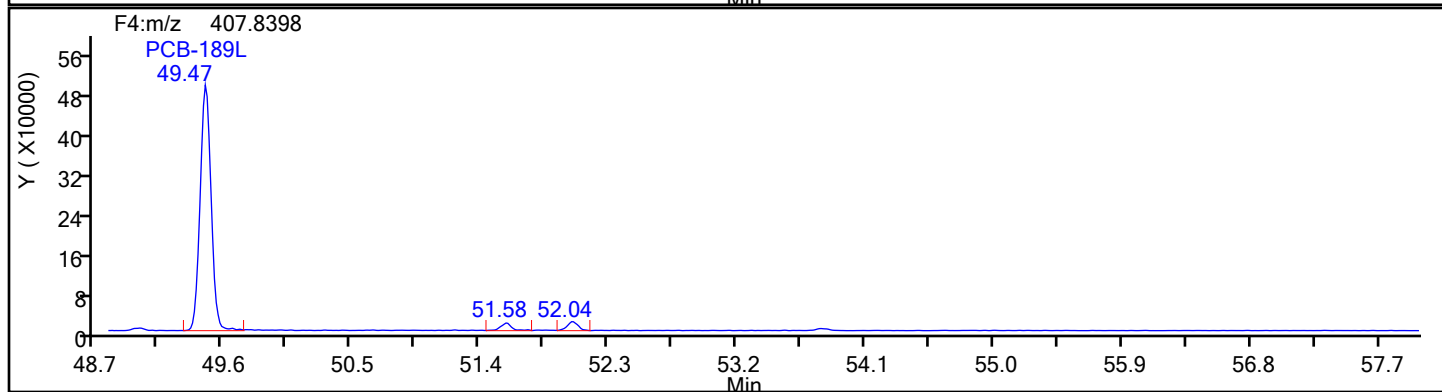
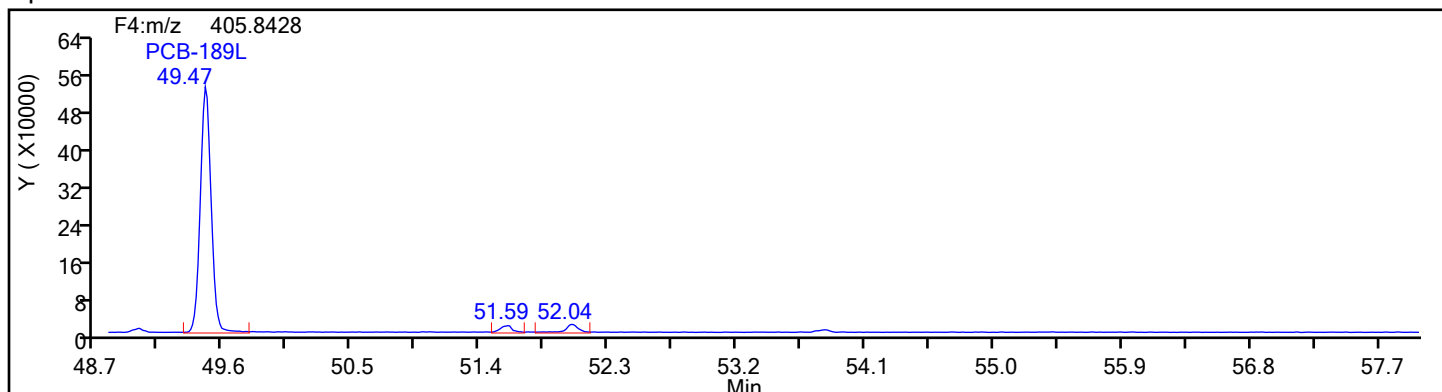
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Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

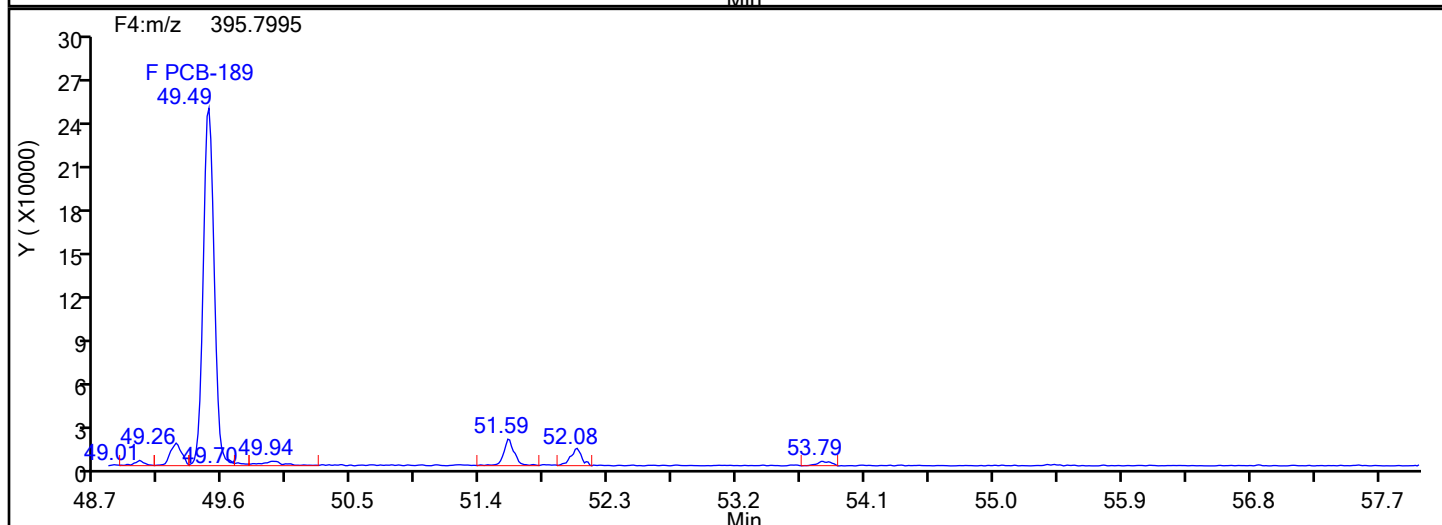
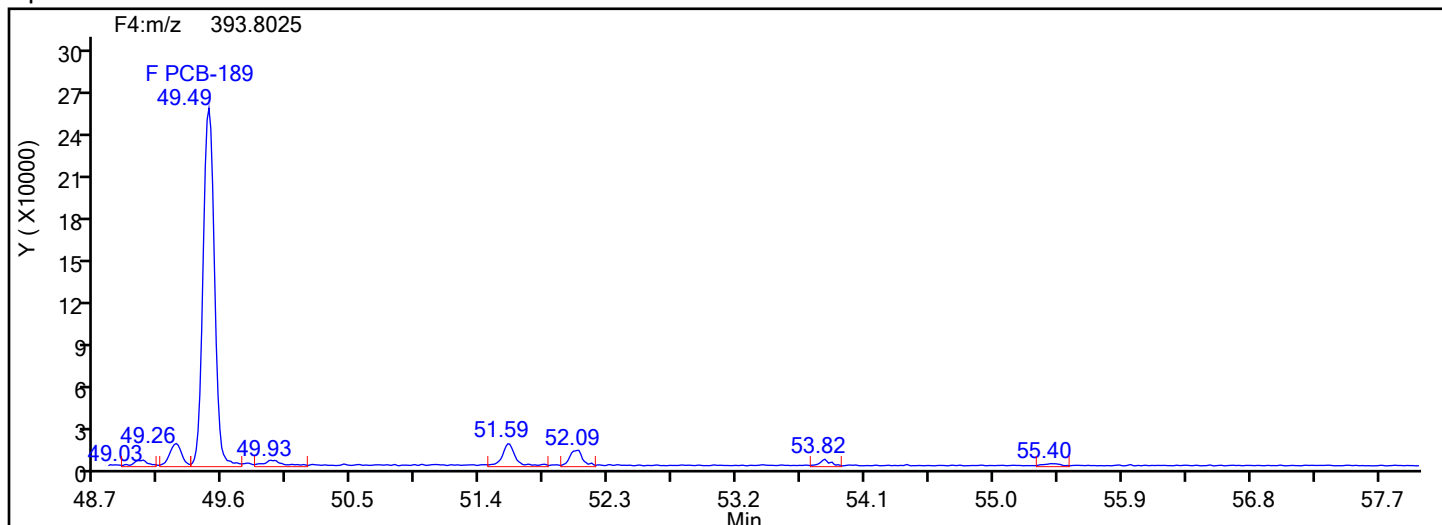
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Sample Line#: 1

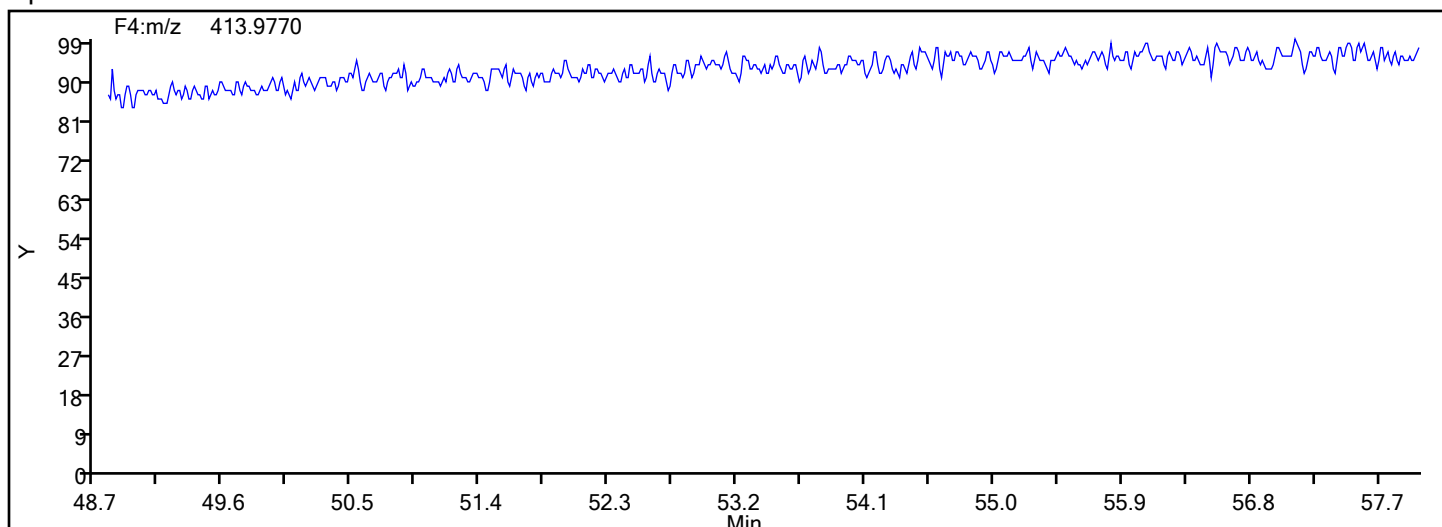
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

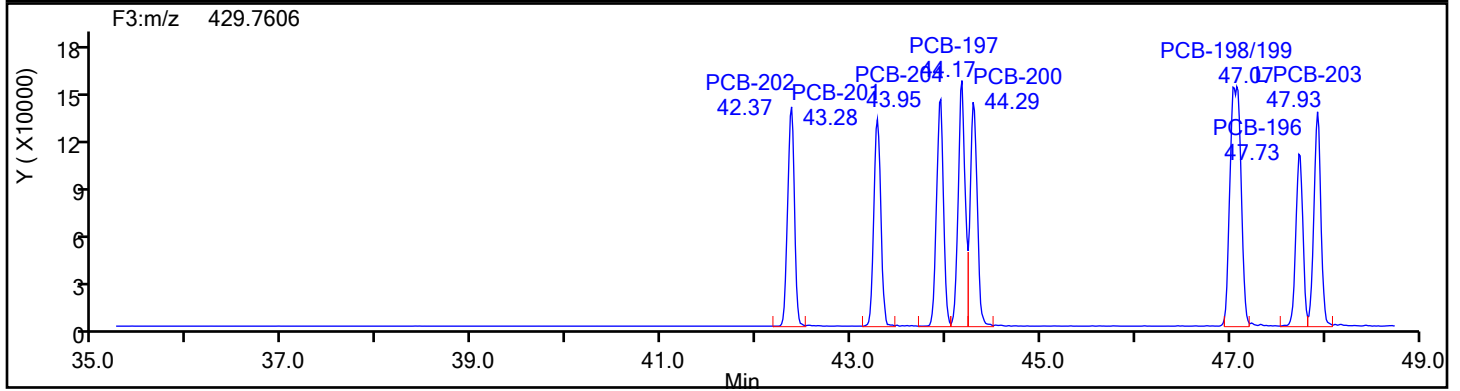
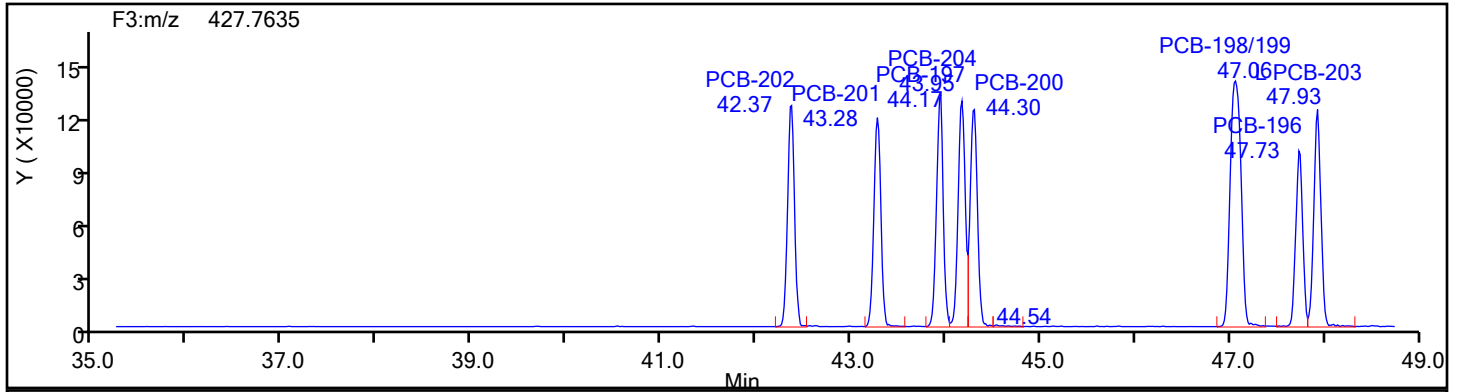
Worklist#: 88780

Sample Line#: 1

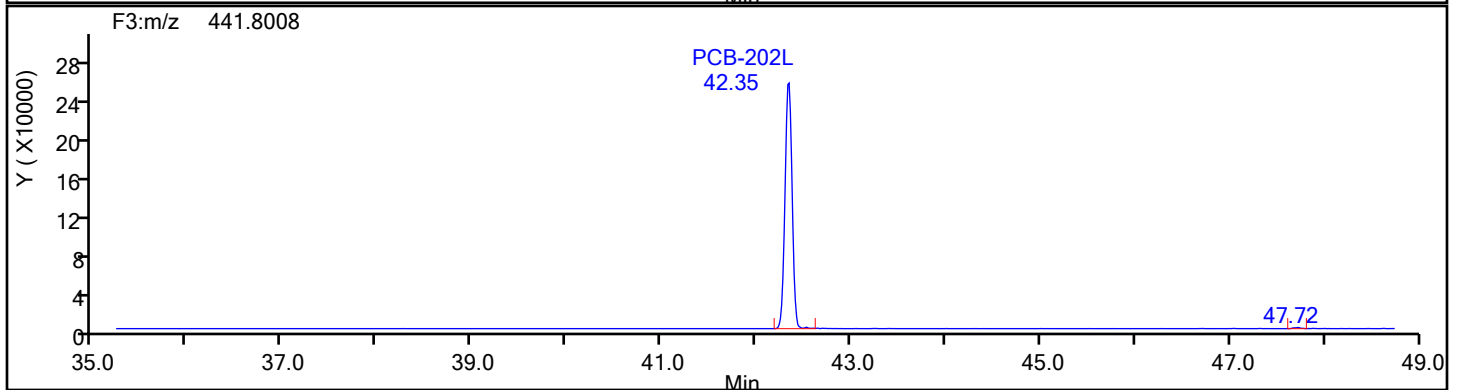
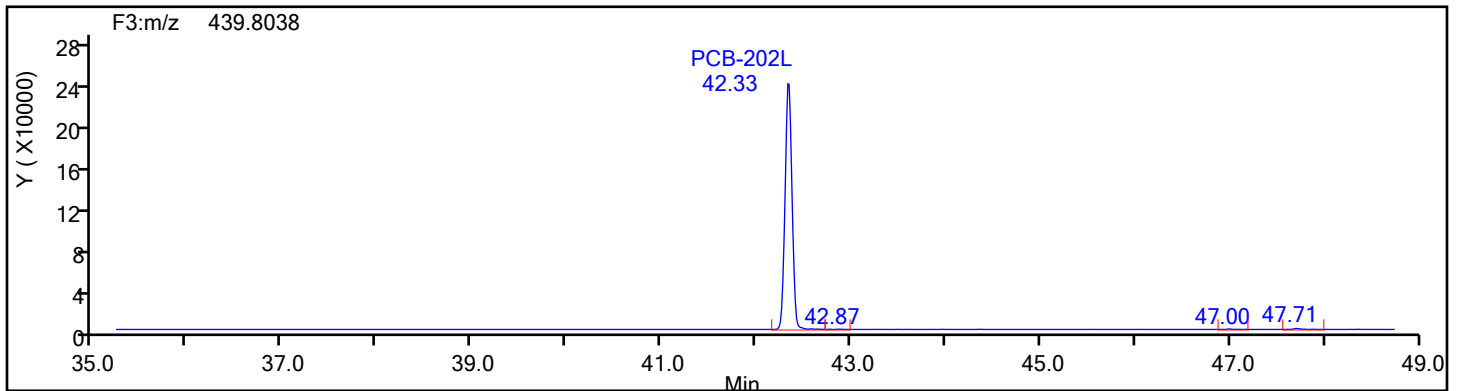
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

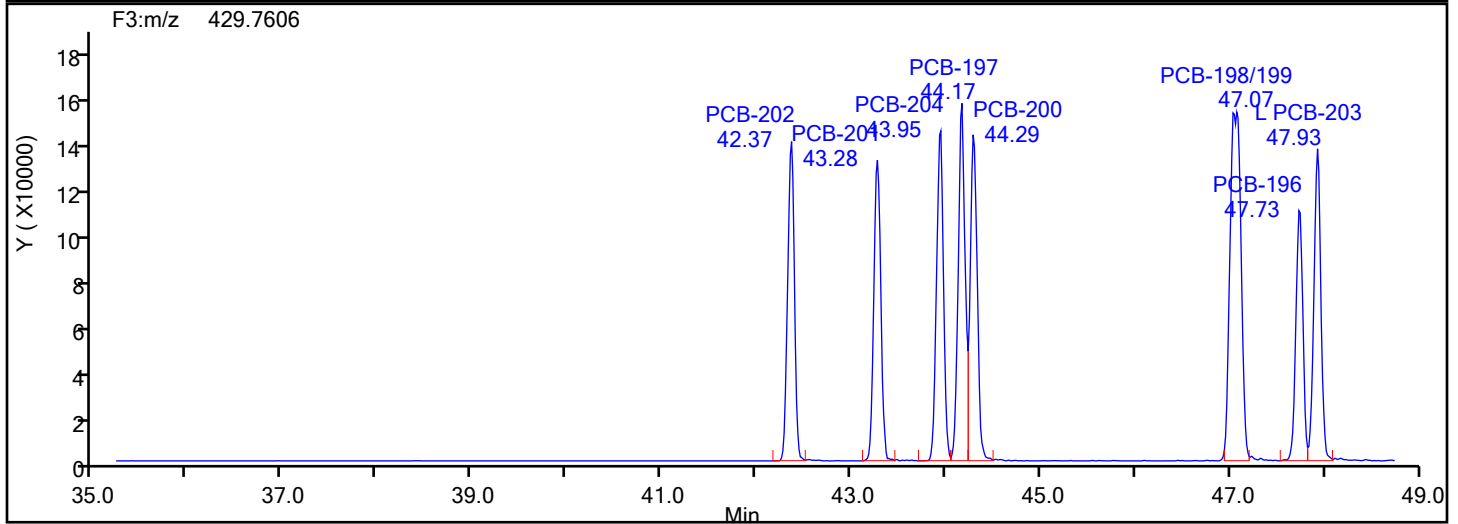
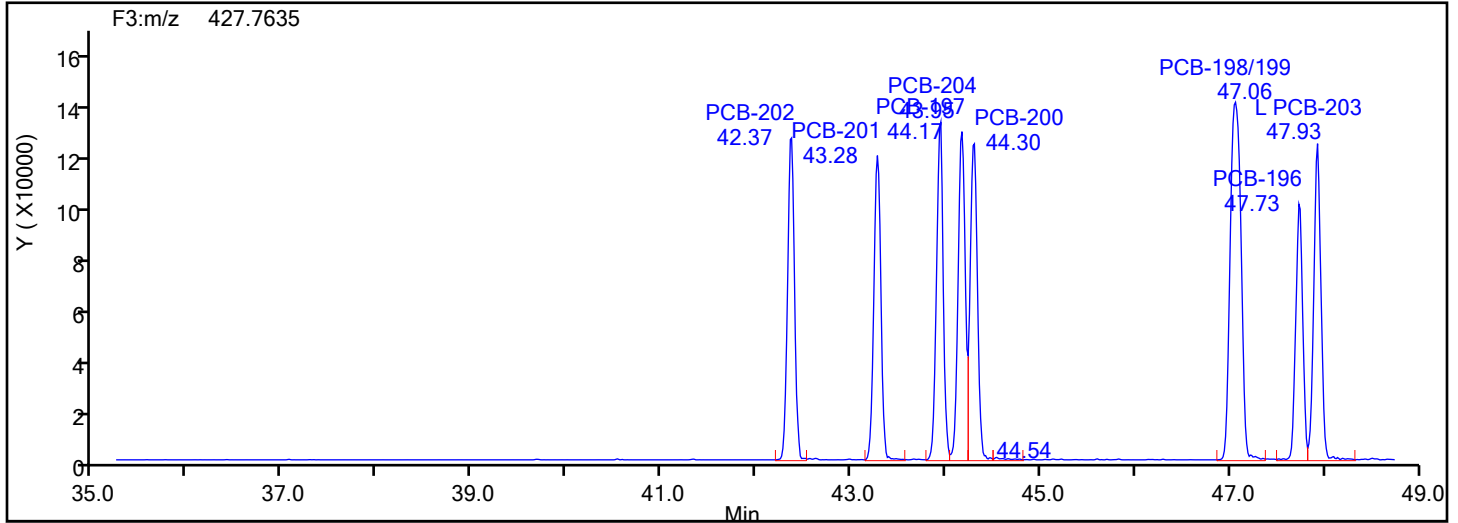


OcPCB F3 Standards

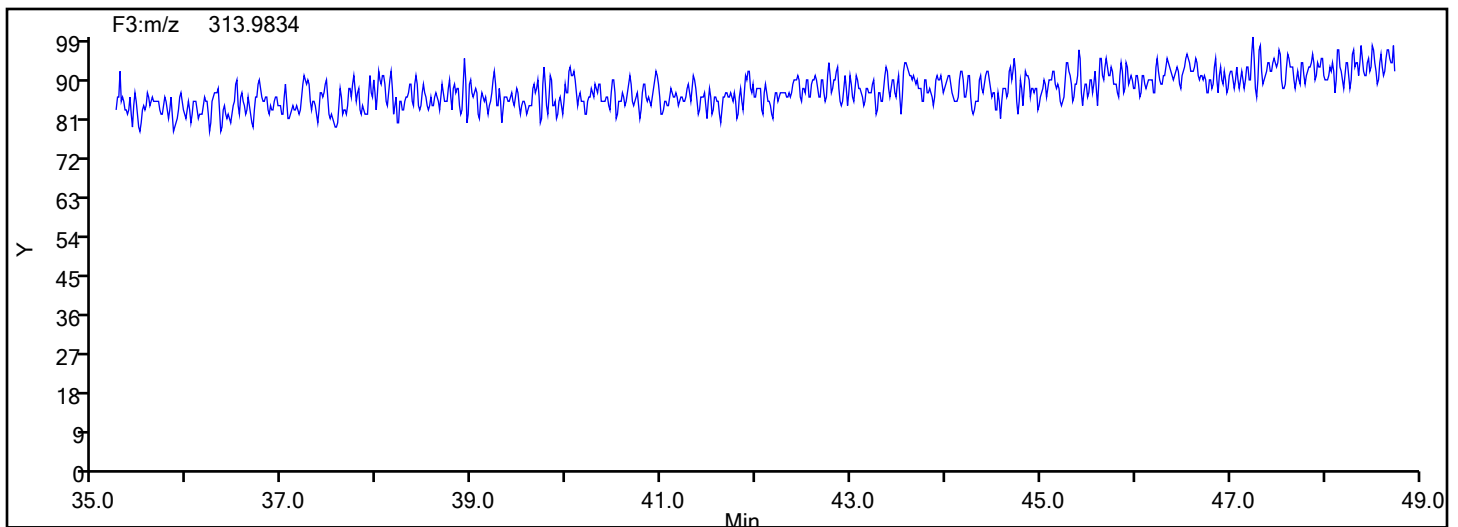


Eurofins Knoxville

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Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

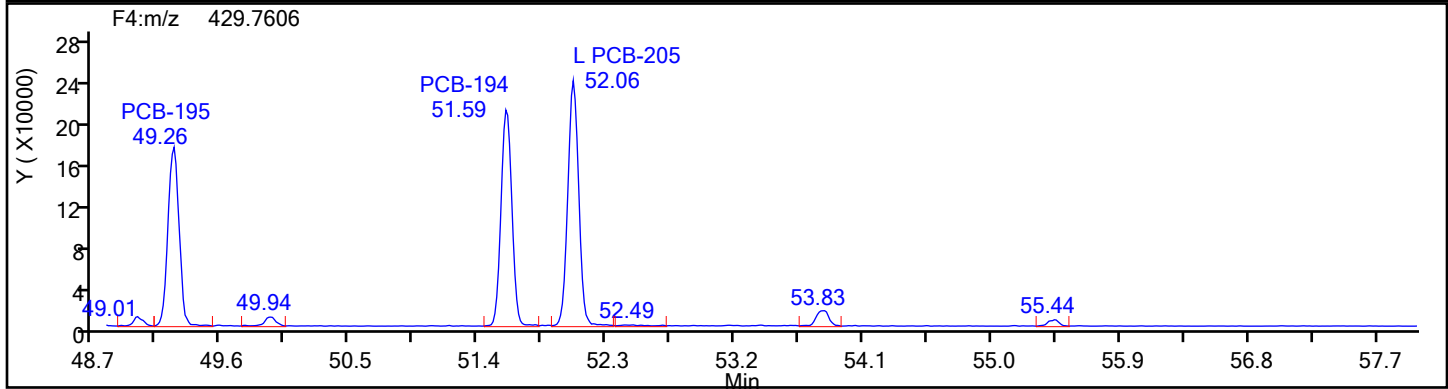
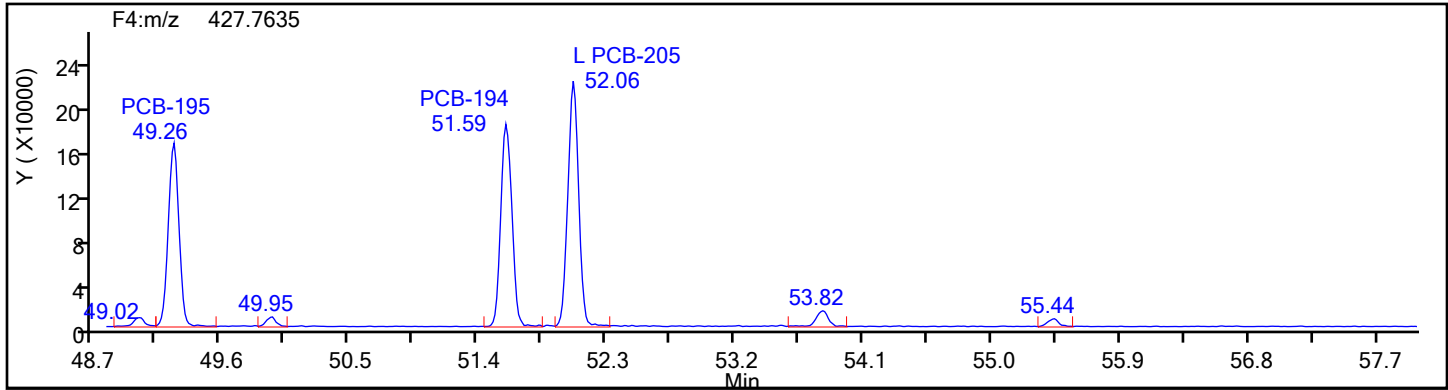
Worklist#: 88780

Sample Line#: 1

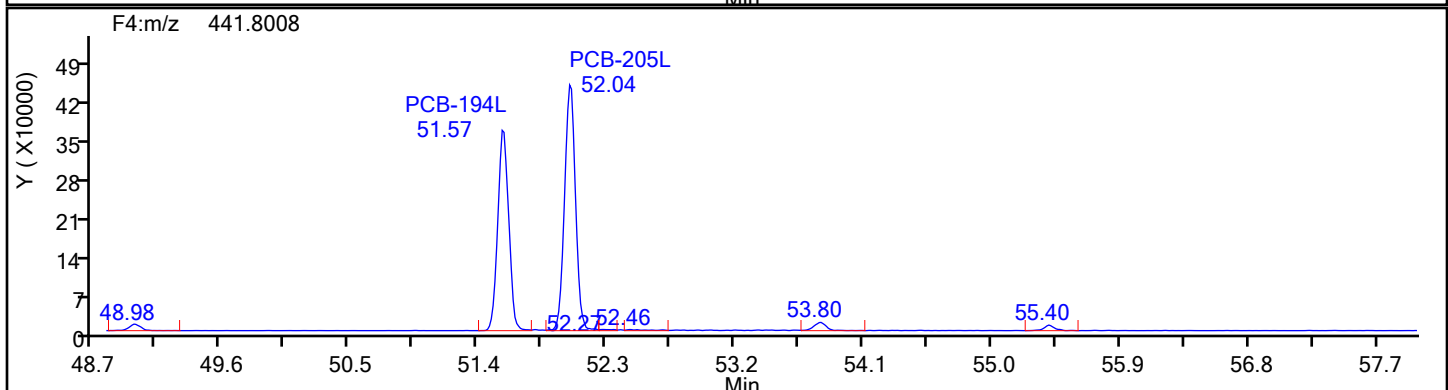
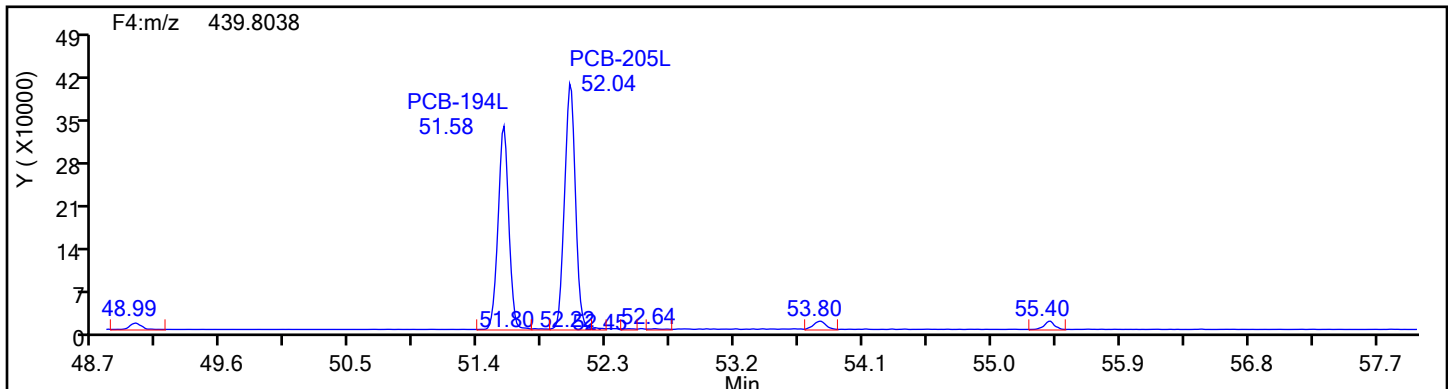
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

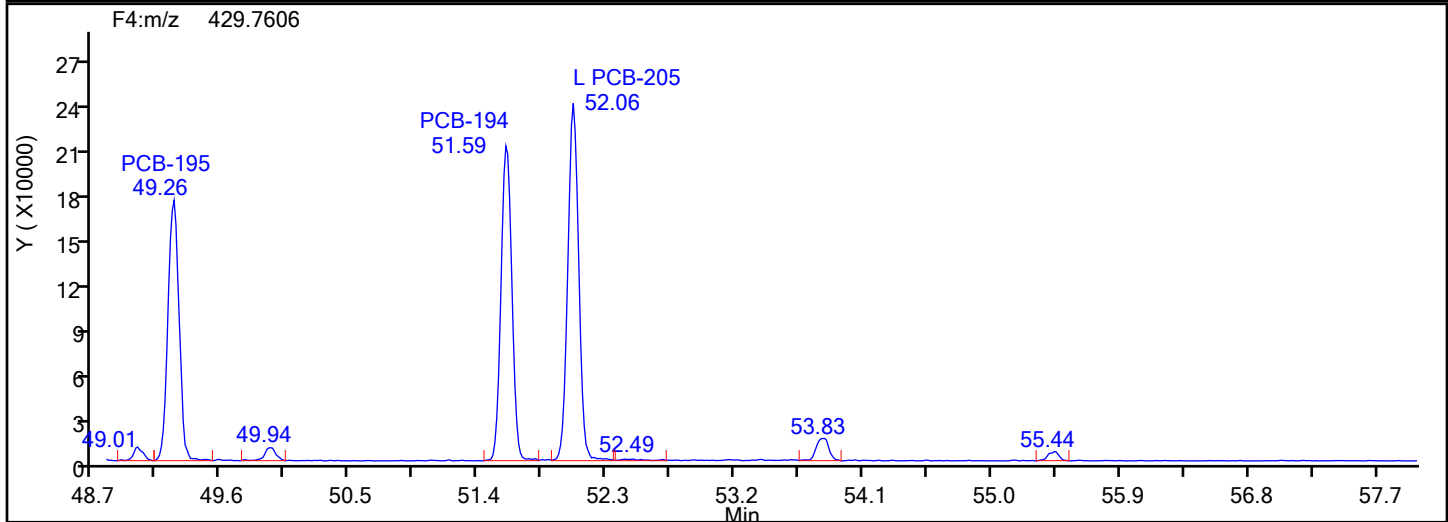
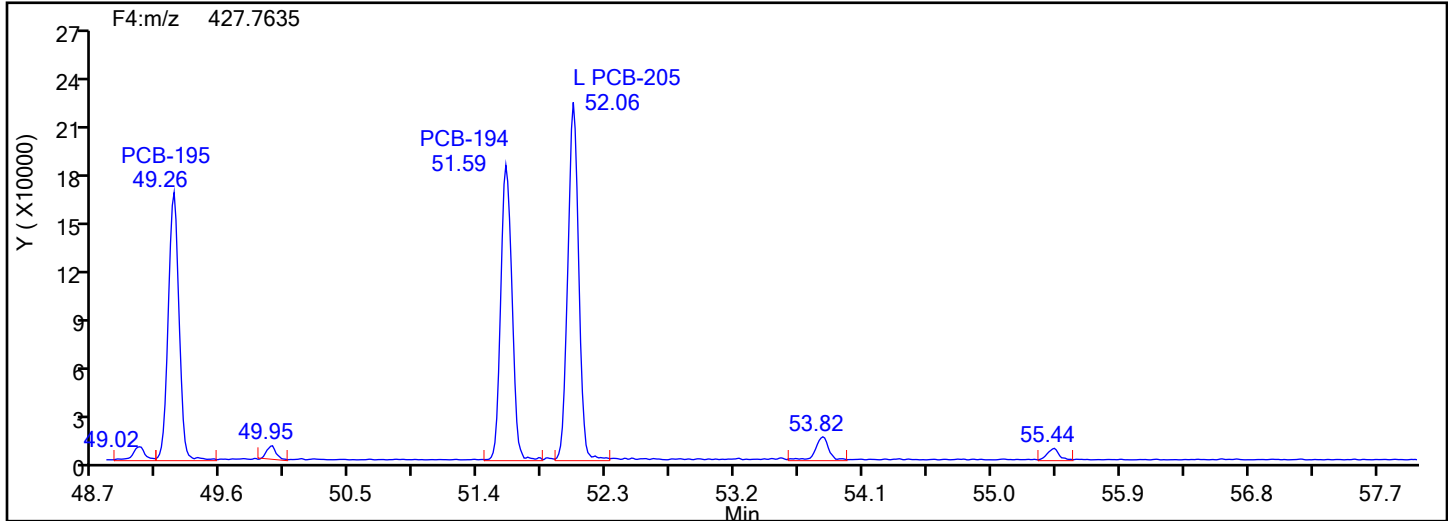


OcPCB F4 Standards

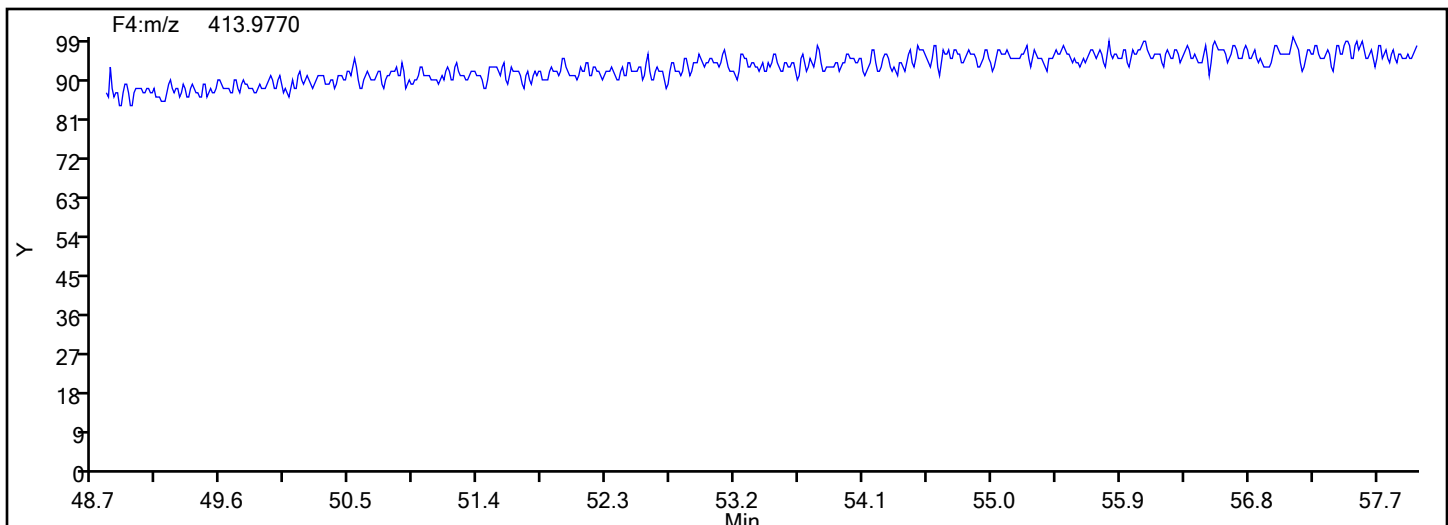


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
OcPCB F4

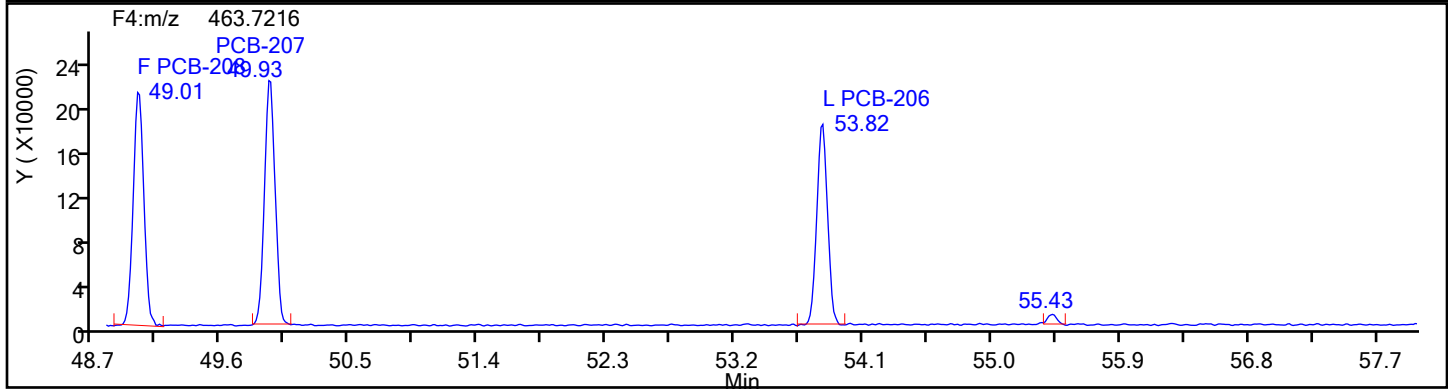
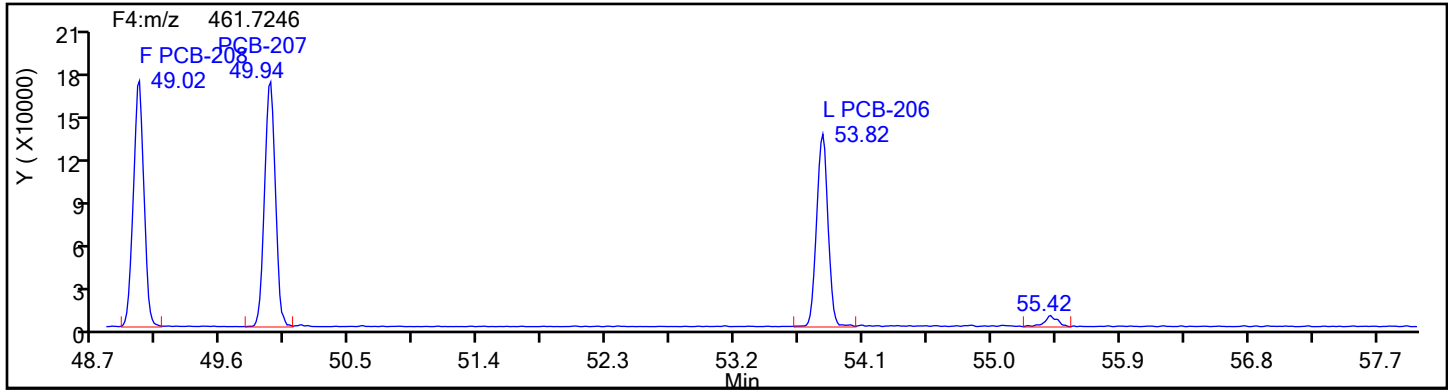


OcPCB F4 Lock Mass

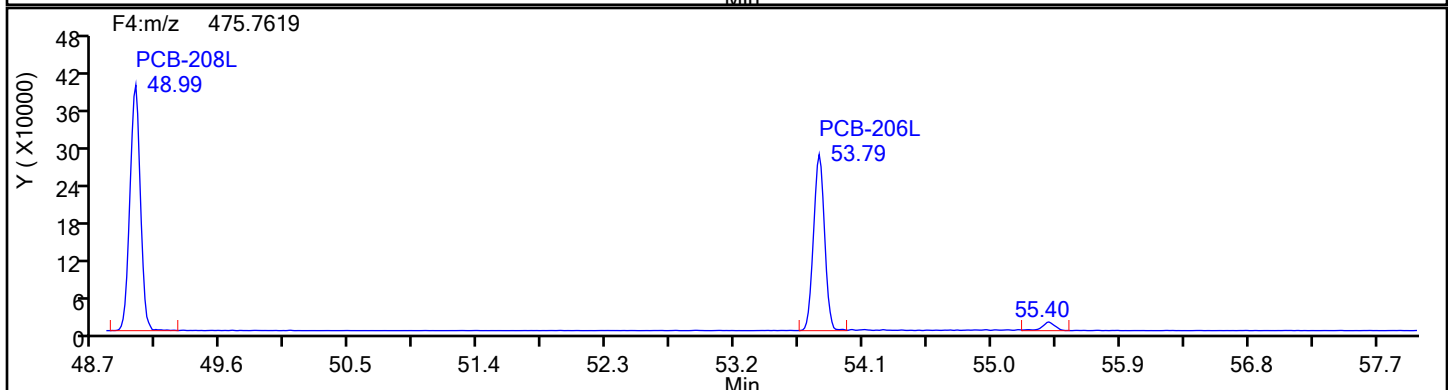
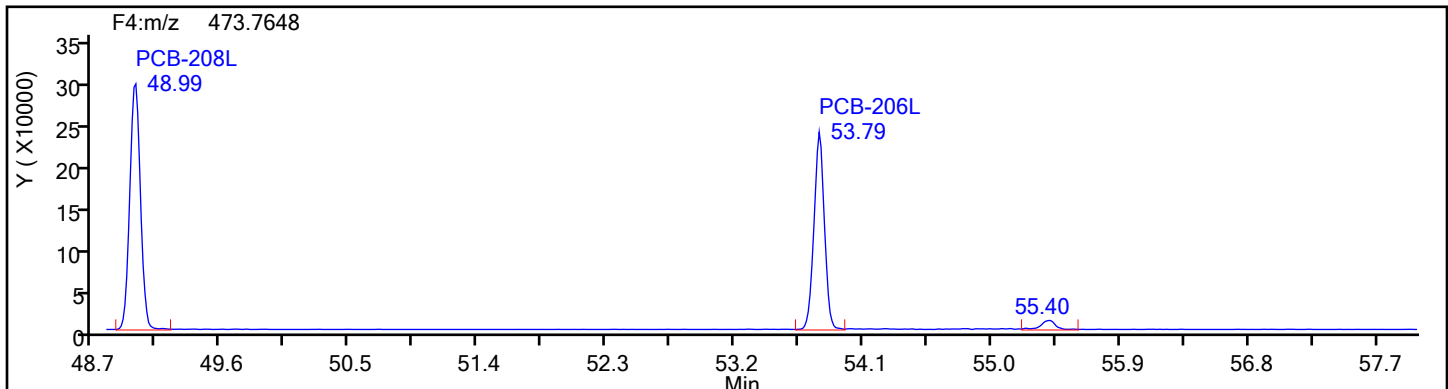


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

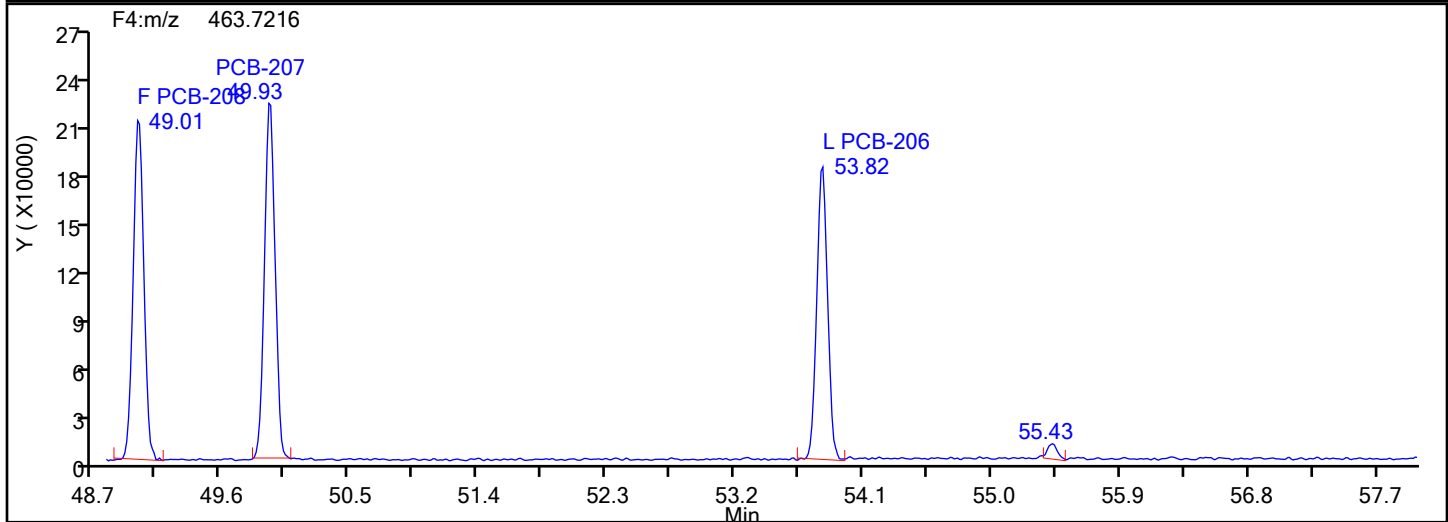
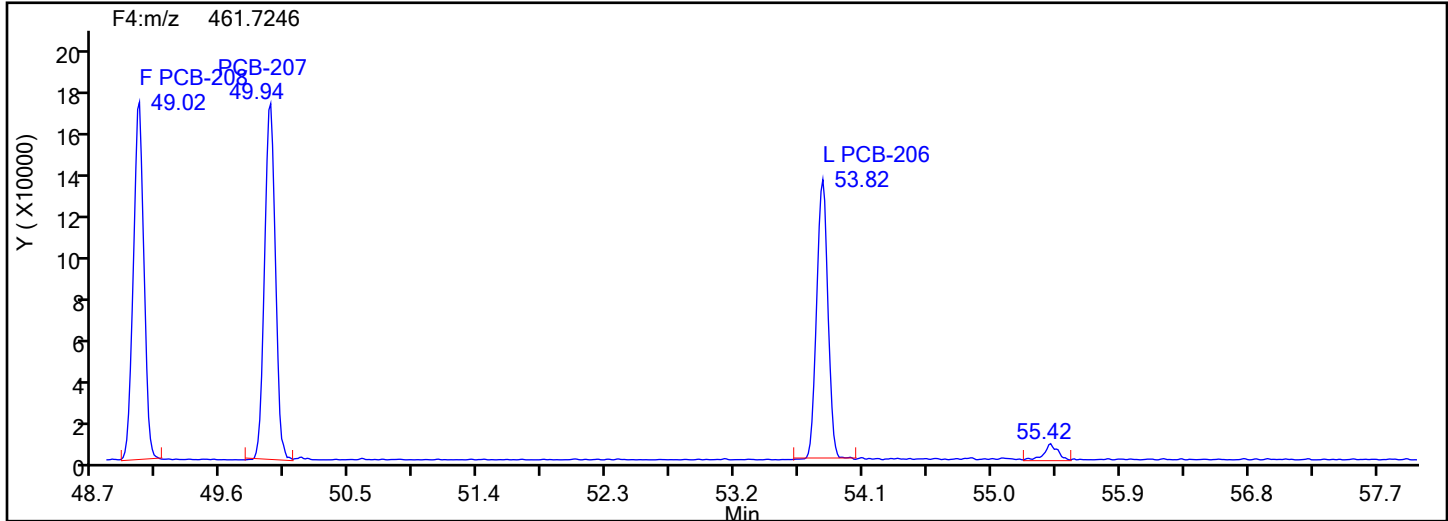
Worklist#: 88780

Sample Line#: 1

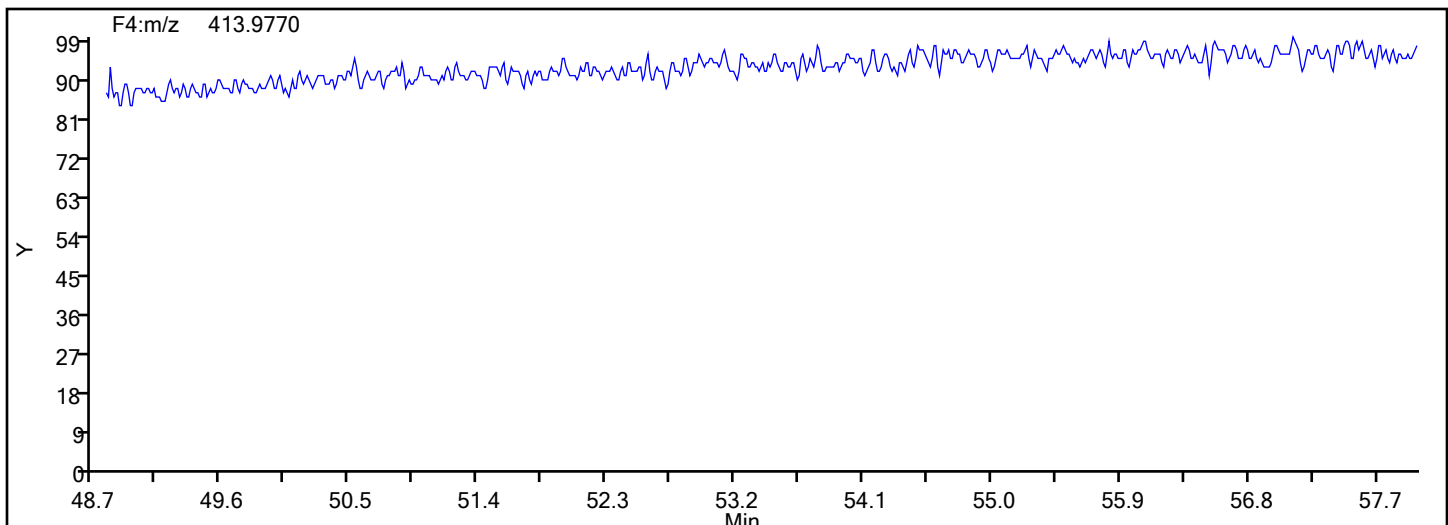
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

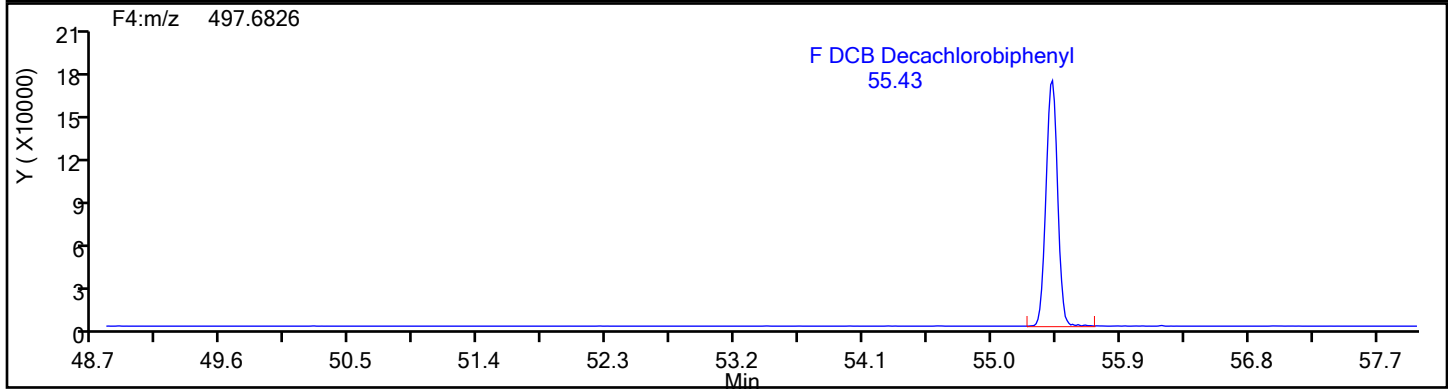
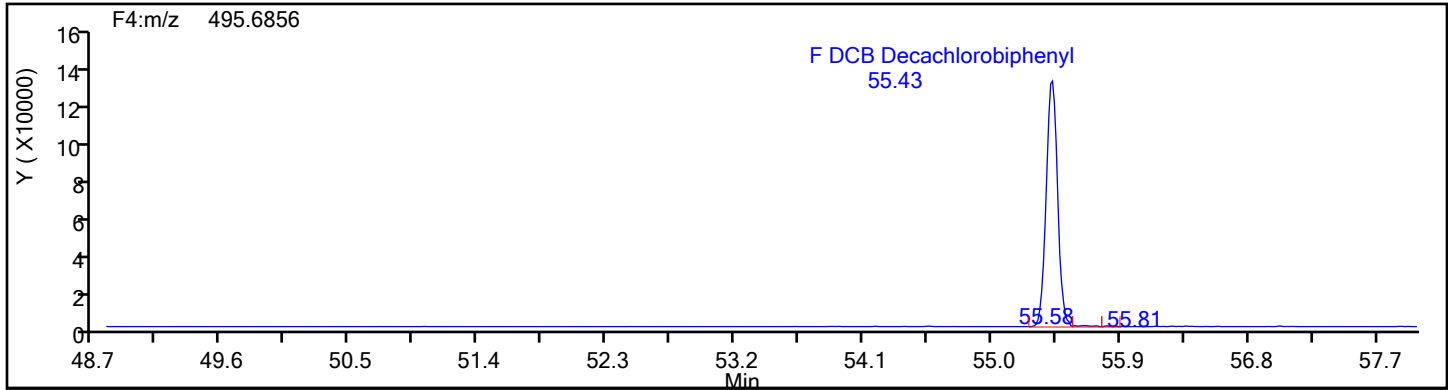


NoPCB F4 Lock Mass

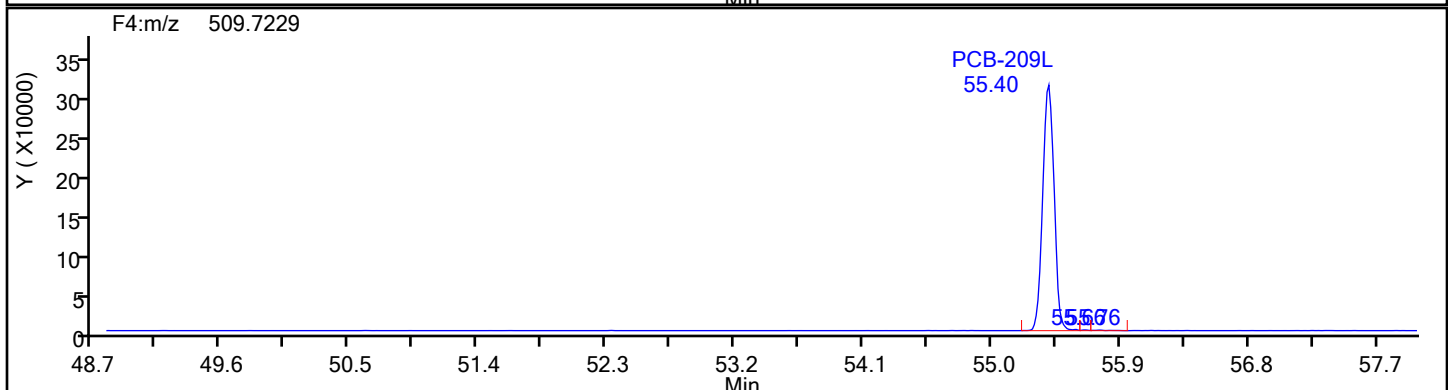
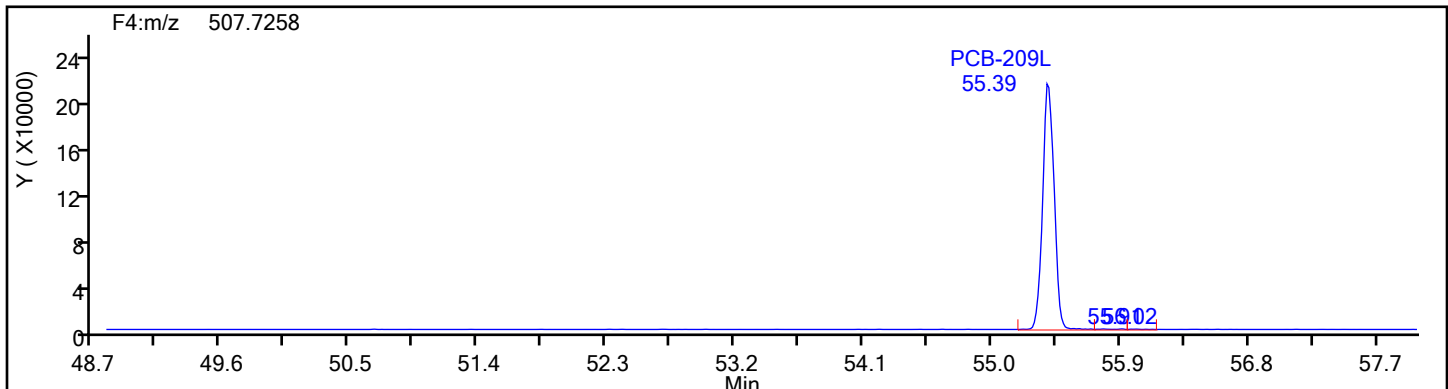


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d
Injection Date: 16-Jul-2024 00:00:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88780 Sample Line#: 1
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33514.b\d2240715c2a.d

Injection Date: 16-Jul-2024 00:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

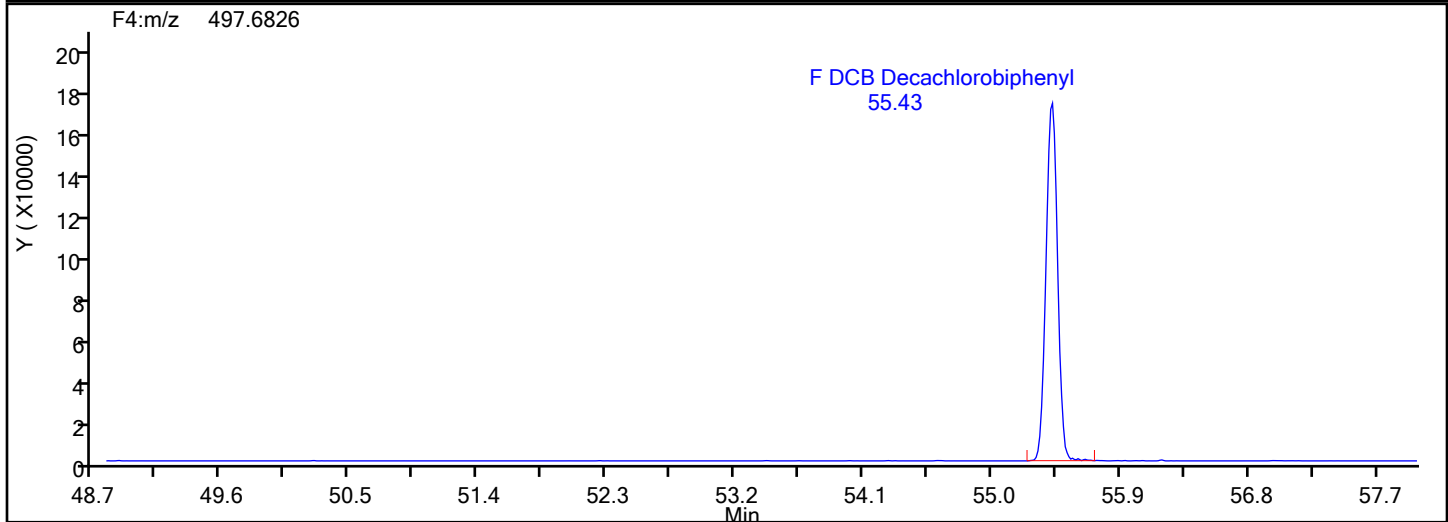
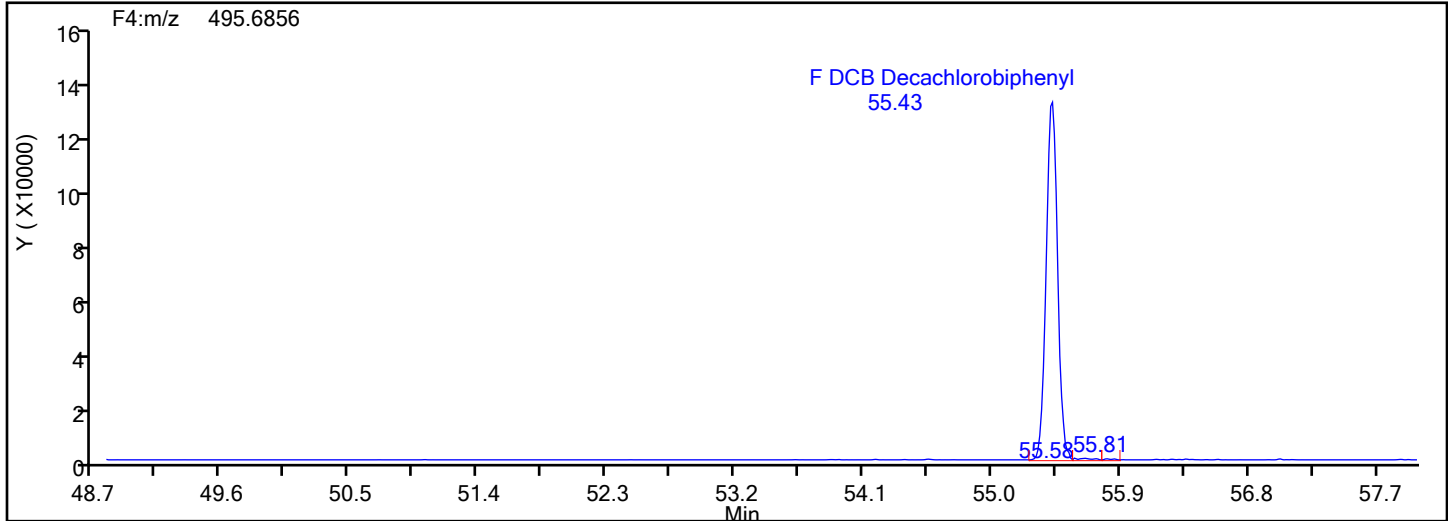
Worklist#: 88780

Sample Line#: 1

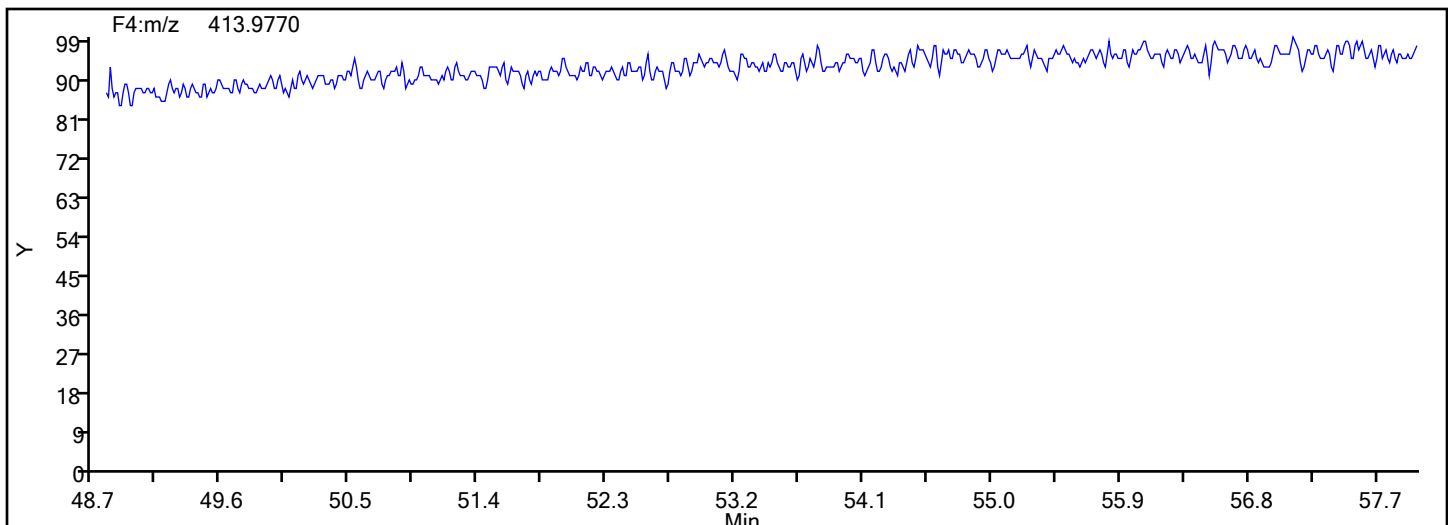
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-88193/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8819321-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 16:31</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	ND		0.600	0.132	0.0112
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00504
7012-37-5	PCB-28	0.03705	J C20 q	0.600	0.252	0.0106
41464-39-5	PCB-44	0.04942	J C	0.900	0.390	0.0120
35693-99-3	PCB-52	ND		0.300	0.132	0.0127
32598-10-0	PCB-66	ND		0.300	0.120	0.00925
32598-13-3	PCB-77	ND		0.300	0.126	0.0106
70362-50-4	PCB-81	ND		0.300	0.0960	0.0110
37680-73-2	PCB-101	ND	C90	0.900	0.390	0.0101
32598-14-4	PCB-105	ND		0.300	0.102	0.0141
74472-37-0	PCB-114	ND		0.300	0.165	0.0149
31508-00-6	PCB-118	ND		0.300	0.183	0.0133
65510-44-3	PCB-123	ND		0.300	0.171	0.0154
57465-28-8	PCB-126	ND		0.300	0.123	0.0156
38380-07-3	PCB-128	0.005771	J C q	0.600	0.204	0.00396
35065-28-2	PCB-138	ND	C129	1.20	0.510	0.00411
35065-27-1	PCB-153	0.005324	J C q	0.600	0.249	0.00356
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00443
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00443
52663-72-6	PCB-167	ND		0.300	0.180	0.00289
32774-16-6	PCB-169	ND		0.300	0.123	0.00276
35065-30-6	PCB-170	ND		0.300	0.132	0.00421
35065-29-3	PCB-180	ND	C	0.600	0.204	0.00338
52663-68-0	PCB-187	ND		0.300	0.126	0.00358
39635-31-9	PCB-189	ND		0.300	0.147	0.00459
52663-78-2	PCB-195	ND		0.300	0.159	0.00414
40186-72-9	PCB-206	ND		0.300	0.171	0.0152
2051-24-3	PCB-209	ND		0.300	0.138	0.00132

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-88193/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8819321-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 16:31</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	69		20-145
208263-77-8	PCB-3L	76		20-145
234432-86-1	PCB-4L	66		20-145
208263-67-6	PCB-15L	72		20-145
234432-87-2	PCB-19L	69		20-145
208263-79-0	PCB-37L	75		20-145
234432-88-3	PCB-54L	80		20-145
105600-23-5	PCB-77L	80		20-145
208461-24-9	PCB-81L	80		20-145
234432-89-4	PCB-104L	80		20-145
208263-62-1	PCB-105L	87		20-145
208263-63-2	PCB-114L	82		20-145
104130-40-7	PCB-118L	83		20-145
208263-64-3	PCB-123L	82		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	77		20-145
208263-68-7	PCB-156L	88	C	20-145
235416-30-5	PCB-157L	88	C156	20-145
208263-69-8	PCB-167L	83		20-145
208263-70-1	PCB-169L	90		20-145
160901-80-4	PCB-170L	86		20-145
234432-91-8	PCB-188L	80		20-145
208263-73-4	PCB-189L	88		20-145
105600-26-8	PCB-202L	81		20-145
234446-64-1	PCB-205L	91		20-145
208263-75-6	PCB-206L	93		20-145
234432-92-9	PCB-208L	90		20-145
105600-27-9	PCB-209L	102		20-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 140-88193/21-B
Matrix: Air Lab File ID: mb140-8819321-b.d
Analysis Method: 23 Date Collected: _____
Extract. Method: Combined Prep Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1 (Sample) Date Analyzed: 07/15/2024 16:31
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 88747 Units: ng/Sample
Preparation Batch No.: 88193 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		20-130
235416-29-2	PCB-111L	73		20-130
232919-67-4	PCB-178L	75		20-130

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Lims ID: MB 140-88193/21-B
Client ID:
Sample Type: MB
Inject. Date: 15-Jul-2024 16:31:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:54:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:54:51

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.0621	0.0528	0.0180	0.0180		RQ
D PCB-1L	11:36	6154647	3.21	1.6108	69.4	69.4	0.2671	0.2671	69.39	
D PCB-3L	13:44	6623594	3.16	1.5891	75.7	75.7	0.2707	0.2707	75.70	
PCB-1	11:37	3965	3.13	1.2191	0.0621	0.0528	0.0163	0.0163		RQM
PCB-2	13:38						0.0183	0.0183		
PCB-3	13:48						0.0194	0.0194		
S Total Dichlorobiphenyls					0.2312	0.2115	0.0433	0.0433		RQ
D PCB-4L	13:59	2356262	1.57	0.6475	66.1	66.1	0.1607	0.1607	66.09	
* PCB-9L	15:56	5505948	1.62		100.0	100.0				
\$ PCB-8L	16:50						0.1593	0.1593		
D PCB-15L	19:51	4250121	1.63	1.0789	71.5	71.5	0.0964	0.0964	71.54	
PCB-4	14:04						0.0514	0.0514		
PCB-10	14:13						0.0453	0.0453		
PCB-9	16:00						0.0419	0.0419		
PCB-7	16:10						0.0421	0.0421		
PCB-6	16:25						0.0386	0.0386		
PCB-5	16:43						0.0444	0.0444		
PCB-8	16:50						0.0375	0.0375		
PCB-14	18:27						0.0425	0.0425		
PCB-11	19:14	9049	1.56	1.2951	0.2312	0.2115	0.0460	0.0460		RQM
PCB-12	19:35						0.0446	0.0446		
PCB-13 (C12)	19:35						0.0446	0.0446		
PCB-15	19:54						0.0421	0.0421		
S Total Trichlorobiphenyls					0.2990	0.2766	0.0306	0.0306		RQ
D PCB-19L	17:04	1527593	1.06	0.6285	68.6	68.6	0.6416	0.6416	68.61	
* PCB-32L	20:18	3542426	1.08		100.0	100.0				
* PCB-31L	22:33	8504651	1.05		100.0	100.0				
\$ PCB-28L	22:51	6430642	1.06	1.0494	72.1	72.1	0.1582	0.1582	72.05	
D PCB-37L	26:51	5610313	1.06	0.8749	75.4	75.4	0.1898	0.1898	75.40	
PCB-19	17:06						0.0232	0.0232		RQU
PCB-18	18:56						0.0168	0.0168		
PCB-30 (C18)	18:56						0.0168	0.0168		
PCB-17	19:24						0.0239	0.0239		
PCB-27	19:37						0.0162	0.0162		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:45						0.0177	0.0177		
PCB-16	19:52						0.0263	0.0263		
PCB-32	20:17	2326	0.97	1.8324	0.0831	0.0831	0.0162	0.0162		M
PCB-34	21:37						0.0366	0.0366		
PCB-23	21:45						0.0381	0.0381		
PCB-26	22:05						0.0367	0.0367		
PCB-29 (C26)	22:05						0.0367	0.0367		
PCB-25	22:18						0.0324	0.0324		
PCB-31	22:36	4530	0.92	1.1532	0.0700	0.0700	0.0358	0.0358		M
PCB-20	22:52	8120	1.04	1.1718	0.1459	0.1235	0.0352	0.0352		RQ
PCB-28 (C20)	22:52	8120	1.04	1.1718	0.1459	0.1235	0.0352	0.0352		RQ
PCB-21	23:05						0.0384	0.0384		
PCB-33 (C21)	23:05						0.0384	0.0384		
PCB-22	23:33						0.0346	0.0346		
PCB-36	25:05						0.0373	0.0373		
PCB-39	25:27						0.0356	0.0356		
PCB-38	26:01						0.0380	0.0380		
PCB-35	26:30						0.0365	0.0365		
PCB-37	26:54						0.0361	0.0361		
S Total Tetrachlorobiphenyls					0.1647	0.1647	0.0354	0.0354		
D PCB-54L	20:09	1584258	0.84	0.5562	80.4	80.4	0.1020	0.1020	80.40	M
* PCB-52L	24:40	4465558	0.81		100.0	100.0				
\$ PCB-79L	32:36						0.1427	0.1427		
D PCB-81L	33:34	4433863	0.80	1.2470	79.6	79.6	0.0939	0.0939	79.63	
D PCB-77L	34:09	4706621	0.81	1.3212	79.8	79.8	0.0886	0.0886	79.78	
PCB-54	20:12						0.007079	0.007079		
PCB-50	22:21						0.0452	0.0452		
PCB-53 (C50)	22:21						0.0452	0.0452		
PCB-45	23:05						0.0470	0.0470		
PCB-51 (C45)	23:05						0.0470	0.0470		
PCB-46	23:20						0.0547	0.0547		
PCB-52	24:44						0.0422	0.0422		
PCB-43	24:52						0.0376	0.0376		
PCB-73 (C43)	24:52						0.0376	0.0376		
PCB-49	25:09						0.0363	0.0363		
PCB-69 (C49)	25:09						0.0363	0.0363		
PCB-48	25:30						0.0462	0.0462		
PCB-44	25:43	7326	0.85	0.9731	0.1647	0.1647	0.0399	0.0399		
PCB-47 (C44)	25:43	7326	0.85	0.9731	0.1647	0.1647	0.0399	0.0399		
PCB-65 (C44)	25:43	7326	0.85	0.9731	0.1647	0.1647	0.0399	0.0399		
PCB-59	26:03						0.0327	0.0327		
PCB-62 (C59)	26:03						0.0327	0.0327		
PCB-75 (C59)	26:03						0.0327	0.0327		
PCB-42	26:15						0.0479	0.0479		
PCB-40	26:45						0.0438	0.0438		
PCB-41 (C40)	26:45						0.0438	0.0438		
PCB-71 (C40)	26:45						0.0438	0.0438		
PCB-64	26:57						0.0330	0.0330		
PCB-72	27:47						0.0355	0.0355		
PCB-68	28:04						0.0310	0.0310		
PCB-57	28:29						0.0359	0.0359		
PCB-58	28:44						0.0293	0.0293		
PCB-67	28:53						0.0273	0.0273		
PCB-63	29:09						0.0345	0.0345		
PCB-61	29:30						0.0308	0.0308		
PCB-70 (C61)	29:30						0.0308	0.0308		
PCB-74 (C61)	29:30						0.0308	0.0308		
PCB-76 (C61)	29:30						0.0308	0.0308		
PCB-66	29:49						0.0308	0.0308		
PCB-55	29:59						0.0293	0.0293		
PCB-56	30:30						0.0315	0.0315		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:42						0.0346	0.0346		
PCB-80	31:06						0.0293	0.0293		
PCB-79	32:38						0.0270	0.0270		
PCB-78	33:12						0.0334	0.0334		
PCB-81	33:38						0.0366	0.0366		
PCB-77	34:12						0.0352	0.0352		
S Total Pentachlorobiphenyls					0.1536	0.0838	0.0391	0.0391		RQ
D PCB-104L	25:36	2919740	1.62	1.2161	79.9	79.9	0.0625	0.0625	79.87	
\$ PCB-95L	28:37						0.0997	0.0997		
* PCB-101L	31:29	3006037	1.60		100.0	100.0				
\$ PCB-111L	34:09	3021586	1.56	1.3699	73.4	73.4	0.0555	0.0555	73.38	
D PCB-123L	36:07	4334760	1.57	0.9731	81.8	81.8	1.559	1.559	81.77	
D PCB-118L	36:26	4567477	1.57	1.0102	83.0	83.0	1.502	1.502	83.01	
D PCB-114L	36:59	4444892	1.61	0.9949	82.0	82.0	1.525	1.525	82.02	
D PCB-105L	37:38	4492167	1.63	0.9514	86.7	86.7	1.595	1.595	86.68	
* PCB-127L	39:06	5447154	1.57		100.0	100.0				
D PCB-126L	40:43	4522703	1.57	0.9439	88.0	88.0	1.608	1.608	87.97	
PCB-104	25:40						0.0320	0.0320		
PCB-96	26:04						0.0295	0.0295		
PCB-103	27:57						0.0369	0.0369		
PCB-94	28:12						0.0422	0.0422		
PCB-95	28:39						0.0402	0.0402		
PCB-93	28:50						0.0383	0.0383		
PCB-100 (C93)	28:50						0.0383	0.0383		
PCB-98	29:00						0.0391	0.0391		
PCB-102 (C98)	29:00						0.0391	0.0391		
PCB-88	29:29						0.0403	0.0403		
PCB-91 (C88)	29:29						0.0403	0.0403		
PCB-84	29:44						0.0442	0.0442		
PCB-89	30:12						0.0414	0.0414		
PCB-121	30:34						0.0249	0.0249		
PCB-92	30:58						0.0378	0.0378		
PCB-90	31:30	810	1.55	0.9550	0.0753	0.0290	0.0338	0.0338		RQ
PCB-101 (C90)	31:30	810	1.55	0.9550	0.0753	0.0290	0.0338	0.0338		RQ
PCB-113 (C90)	31:30	810	1.55	0.9550	0.0753	0.0290	0.0338	0.0338		RQ
PCB-83	32:07						0.0385	0.0385		
PCB-99 (C83)	32:07						0.0385	0.0385		
PCB-112	32:15						0.0229	0.0229		
PCB-86	32:36						0.0308	0.0308		
PCB-87 (C86)	32:36						0.0308	0.0308		
PCB-97 (C86)	32:36						0.0308	0.0308		
PCB-109 (C86)	32:36						0.0308	0.0308		
PCB-119 (C86)	32:36						0.0308	0.0308		
PCB-125 (C86)	32:36						0.0308	0.0308		
PCB-85	33:20						0.0310	0.0310		
PCB-116 (C85)	33:20						0.0310	0.0310		
PCB-117 (C85)	33:20						0.0310	0.0310		
PCB-110	33:33						0.0271	0.0271		
PCB-115 (C110)	33:33						0.0271	0.0271		
PCB-82	33:49	1328	1.55	0.8303	0.0783	0.0548	0.0389	0.0389		RQ
PCB-111	34:13						0.0266	0.0266		
PCB-120	34:40						0.0219	0.0219		
PCB-108	35:49						0.0483	0.0483		
PCB-124 (C108)	35:49						0.0483	0.0483		
PCB-107	36:04						0.0454	0.0454		
PCB-123	36:11						0.0513	0.0513		
PCB-106	36:18						0.0508	0.0508		
PCB-118	36:30						0.0445	0.0445		
PCB-122	36:52						0.0576	0.0576		
PCB-114	37:02						0.0495	0.0495		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:41						0.0471	0.0471		
PCB-127	39:09						0.0483	0.0483		
PCB-126	40:46						0.0521	0.0521		
S Total Hexachlorobiphenyls					0.2287	0.1553	0.0120	0.0120		RQ
D PCB-155L	31:14	2500592	1.26	1.0851	76.7	76.7	0.0348	0.0348	76.66	
\$ PCB-153L	38:17	66340	1.42	0.9169	1.814	1.814	0.8203	0.8203		
* PCB-138L	39:34	3720867	1.25		100.0	100.0				
\$ PCB-159L	41:56						1.218	1.218		
D PCB-167L	42:33	3900119	1.28	1.2572	83.4	83.4	0.5111	0.5111	83.37	
D PCB-156L	43:43	7896028	1.31	1.2106	175.3	175.3	0.5308	0.5308	87.65	
D PCB-157L (C156L)	43:43	7896028	1.31	1.2106	175.3	175.3	0.5308	0.5308	87.65	
D PCB-169L	46:56	4154839	1.24	1.2439	89.8	89.8	0.5166	0.5166	89.77	
PCB-155	31:17						0.007090	0.007090		
PCB-152	31:31						0.006767	0.006767		
PCB-150	31:41						0.006609	0.006609		
PCB-136	32:04						0.006619	0.006619		
PCB-145	32:20						0.006914	0.006914		
PCB-148	33:50						0.008807	0.008807		
PCB-135	34:26						0.009229	0.009229		
PCB-151 (C135)	34:26						0.009229	0.009229		
PCB-154	34:40						0.008237	0.008237		
PCB-144	35:00						0.008528	0.008528		
PCB-147	35:19	1625	1.24	0.8950	0.0739	0.0455	0.0145	0.0145		RQ
PCB-149 (C147)	35:19	1625	1.24	0.8950	0.0739	0.0455	0.0145	0.0145		RQ
PCB-134	35:40						0.0163	0.0163		
PCB-143 (C134)	35:40						0.0163	0.0163		
PCB-139	35:57						0.0148	0.0148		
PCB-140 (C139)	35:57						0.0148	0.0148		
PCB-131	36:10						0.0173	0.0173		
PCB-142	36:19						0.0173	0.0173		
PCB-132	36:37	1455	1.37	0.7489	0.0487	0.0487	0.0173	0.0173		
PCB-133	37:07						0.0160	0.0160		
PCB-165	37:30						0.0127	0.0127		
PCB-146	37:45						0.0135	0.0135		
PCB-161	37:52						0.0115	0.0115		
PCB-153	38:21	774	1.24	1.0938	0.0315	0.0177	0.0119	0.0119		RQM
PCB-168 (C153)	38:21	774	1.24	1.0938	0.0315	0.0177	0.0119	0.0119		RQM
PCB-141	38:34						0.0148	0.0148		
PCB-130	38:59						0.0184	0.0184		
PCB-137	39:11						0.0167	0.0167		
PCB-164	39:17	515	1.24	1.0382	0.0315	0.0124	0.0125	0.0125		RQM
PCB-129	39:37						0.0137	0.0137		
PCB-138 (C129)	39:37						0.0137	0.0137		
PCB-160 (C129)	39:37						0.0137	0.0137		
PCB-163 (C129)	39:37						0.0137	0.0137		
PCB-158	40:00						0.009898	0.009898		
PCB-128	40:51	754	1.24	0.9829	0.0288	0.0192	0.0132	0.0132		RQ
PCB-166 (C128)	40:51	754	1.24	0.9829	0.0288	0.0192	0.0132	0.0132		RQ
PCB-159	41:50	641	1.24	1.3856	0.0142	0.0116	0.009365	0.009365		RQ
PCB-162	42:08						0.0103	0.0103		
PCB-167	42:36						0.009637	0.009637		
PCB-156	43:46						0.0148	0.0148		
PCB-157 (C156)	43:46						0.0148	0.0148		
PCB-169	46:59						0.009208	0.009208		
S Total Heptachlorobiphenyls					0.0381	0.0341	0.0122	0.0122		RQ
D PCB-188L	36:57	2969658	1.06	1.3133	80.2	80.2	0.0406	0.0406	80.21	
\$ PCB-178L	40:01	2183302	1.11	1.0313	75.1	75.1	0.0517	0.0517	75.10	
* PCB-180L	45:05	2818911	1.09		100.0	100.0				
D PCB-170L	46:21	2033255	1.08	0.8362	86.3	86.3	0.0638	0.0638	86.26	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-189L	49:27	4804531	1.04	1.4414	87.9	87.9	0.2095	0.2095	87.87	
PCB-188	37:00						0.009565	0.009565		
PCB-179	37:23						0.009211	0.009211		
PCB-184	37:52						0.009618	0.009618		
PCB-176	38:15						0.0107	0.0107		
PCB-186	38:42						0.008922	0.008922		
PCB-178	40:04						0.0147	0.0147		
PCB-175	40:41						0.0138	0.0138		
PCB-187	40:58						0.0119	0.0119		
PCB-182	41:09						0.0142	0.0142		
PCB-183	41:31						0.0134	0.0134		RQU
PCB-185 (C183)	41:31						0.0134	0.0134		RQU
PCB-174	41:50						0.0136	0.0136		
PCB-177	42:16						0.0135	0.0135		
PCB-181	42:39						0.0138	0.0138		
PCB-171	42:52						0.0141	0.0141		
PCB-173 (C171)	42:52						0.0141	0.0141		
PCB-172	44:30						0.0154	0.0154		
PCB-192	44:46	1148	1.05	1.3459	0.0381	0.0341	0.009770	0.009770		RQ
PCB-180	45:07						0.0113	0.0113		
PCB-193 (C180)	45:07						0.0113	0.0113		
PCB-191	45:30						0.0102	0.0102		
PCB-170	46:25						0.0140	0.0140		
PCB-190	46:55						0.009870	0.009870		
PCB-189	49:30						0.0153	0.0153		
S Total Octachlorobiphenyls					0.0199	0.009168	0.008479	0.008479		RQ
D PCB-202L	42:19	2236094	0.91	0.9818	80.8	80.8	0.0172	0.0172	80.79	
* PCB-194L	51:33	3793364	0.91		100.0	100.0				
D PCB-205L	52:01	4051127	0.91	1.1786	90.6	90.6	0.0477	0.0477	90.62	
PCB-202	42:22						0.006650	0.006650		
PCB-201	43:17						0.007063	0.007063		
PCB-204	43:57						0.006570	0.006570		
PCB-197	44:11						0.006012	0.006012		
PCB-200	44:19						0.006840	0.006840		
PCB-198	47:04						0.007920	0.007920		
PCB-199 (C198)	47:04						0.007920	0.007920		
PCB-196	47:44						0.008825	0.008825		
PCB-203	47:56						0.007414	0.007414		
PCB-195	49:16						0.0138	0.0138		
PCB-194	51:36						0.0117	0.0117		
PCB-205	52:04	404	0.89	1.0878	0.0199	0.009168	0.0105	0.0105		RQ
S Total Nonachlorobiphenyls							0.0508	0.0508		
D PCB-208L	48:58	3272639	0.82	0.9576	90.1	90.1	0.1423	0.1423	90.09	
D PCB-206L	53:46	2450870	0.81	0.6947	93.0	93.0	0.1961	0.1961	93.00	
PCB-208	49:01						0.0458	0.0458		
PCB-207	49:56						0.0428	0.0428		
PCB-206	53:49						0.0508	0.0508		
D PCB-209L	55:22	2582380	0.72	0.6669	102.1	102.1	0.0673	0.0673	102	
DCB Decachlorobiphenyl	55:25						0.004412	0.004412		
S Polychlorinated biphenyls, Total					1.135		0.0263	0.0263		RQ
PCB-28L (PRC)	0.0						0.0	0.0		
PCB-47L (PRC)	0.0						0.0	0.0		
PCB-8L (PRC)	0.0						0.0	0.0		
PCB-141L (PRC)	0.0						0.0	0.0		
PCB-111L (PRC)	0.0						0.0	0.0		
PCB-70L (PRC)	0.0						0.0	0.0		
PCB-182L (PRC)	0.0						0.0	0.0		
PCB-80L (PRC)	0.0						0.0	0.0		

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Lims ID: MB 140-88193/21-B
Client ID:
Sample Type: MB
Inject. Date: 15-Jul-2024 16:31:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:54:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:54:51

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-3	0.728	4693001	1803061	1310	3275	1376		
202.0766	11:36	11:36	-3	0.728	1461646	567359	1307	3267	434	3.21(2.66-3.60)	
PCB-3L											
200.0795	13:44	13:44	-3	0.862	5029876	1514116	1310	3275	1156		
202.0766	13:44	13:44	-3	0.862	1593718	467628	1307	3267	358	3.16(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	-3	1.002	3005	1015	106	265	10		RQM
190.0363	11:35	11:37	-5	0.999	1655	473	82	205	6	1.82(2.66-3.60)	M
Empc Correction					960	324	82	205	4		
PCB-2											
188.0393	13:35						106	265			
190.0363	13:35						82	205			
PCB-3											
188.0393	13:46						106	265			
190.0363	13:46						82	205			
PCB-4L											
234.0406	13:59	13:59	-3	0.878	1440555	453498	484	1210	937		
236.0376	13:59	13:59	-3	0.878	915707	290065	149	372	1947	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:59	-3		3406952	940864	484	1210	1944		
236.0376	15:56	15:59	-3		2098996	579790	149	372	3891	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:45						484	1210			
236.0376	16:45						149	372			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:51	19:49	-3	1.246	2635154	554283	484	1210	1145		
236.0376	19:51	19:49	-3	1.246	1614967	348245	149	372	2337	1.63(1.33-1.79)	
PCB-4											
222.0003	14:01						64	160			
223.9974	14:01						132	330			
PCB-10											
222.0003	14:10						64	160			
223.9974	14:10						132	330			
PCB-9											
222.0003	15:56						64	160			
223.9974	15:56						132	330			
PCB-7											
222.0003	16:06						64	160			
223.9974	16:06						132	330			
PCB-6											
222.0003	16:21						64	160			
223.9974	16:21						132	330			
PCB-5											
222.0003	16:39						64	160			
223.9974	16:39						132	330			
PCB-8											
222.0003	16:46						64	160			
223.9974	16:46						132	330			
PCB-14											
222.0003	18:24						64	160			
223.9974	18:24						132	330			
PCB-11											
222.0003	19:14	19:14	-3	0.970	6354	1685	64	160	26		RQM
	Empc Correction				5514	1438	64	160	22		M
223.9974	19:13	19:14	-3	0.969	3535	922	132	330	7	1.80(1.33-1.79)	
PCB-12											
222.0003	19:32						64	160			
223.9974	19:32						132	330			
PCB-13 (C12)											
222.0003	19:32						64	160			
223.9974	19:32						132	330			
PCB-15											
222.0003	19:51						64	160			
223.9974	19:51						132	330			
PCB-19L											
268.0016	17:04	17:05	-3	0.841	787072	210200	738	1845	285		
269.9986	17:04	17:05	-3	0.841	740521	201110	646	1615	311	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:18	20:21	-3		1839131	443316	738	1845	601		
269.9986	20:18	20:21	-3		1703295	414689	646	1615	642	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:33	22:36	-3		4358926	923541	779	1947	1186		
269.9986	22:33	22:36	-3		4145725	893318	428	1070	2087	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:51	22:50	-2	1.013	3307002	702215	779	1947	901		
269.9986	22:51	22:50	-2	1.013	3123640	654214	428	1070	1529	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:51	26:50	-3	1.190	2888266	487353	779	1947	626		
269.9986	26:51	26:50	-3	1.190	2722047	470222	428	1070	1099	1.06(0.88-1.20)	
PCB-19											
255.9613	17:05						31	77			RQU
257.9584	17:05						18	45			
PCB-18											
255.9613	18:52						31	77			
257.9584	18:52						18	45			
PCB-30 (C18)											
255.9613	18:52						31	77			
257.9584	18:52						18	45			
PCB-17											
255.9613	19:20						31	77			
257.9584	19:20						18	45			
PCB-27											
255.9613	19:33						31	77			
257.9584	19:33						18	45			
PCB-24											
255.9613	19:41						31	77			
257.9584	19:41						18	45			
PCB-16											
255.9613	19:48						31	77			
257.9584	19:48						18	45			
PCB-32											
255.9613	20:17	20:17	-6	1.188	1144	302	31	77	10		M
257.9584	20:20	20:17	-2	1.192	1182	392	18	45	22	0.97(0.88-1.20)	M
PCB-34											
255.9613	21:32						53	132			
257.9584	21:32						105	262			
PCB-23											
255.9613	21:41						53	132			
257.9584	21:41						105	262			
PCB-26											
255.9613	22:01						53	132			
257.9584	22:01						105	262			
PCB-29 (C26)											
255.9613	22:01						53	132			
257.9584	22:01						105	262			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:16						53	132			
257.9584	22:16						105	262			
PCB-31											
255.9613	22:36	22:35	-1	0.842	2169	619	53	132	12		M
257.9584	22:35	22:35	-2	0.841	2361	457	105	262	4	0.92(0.88-1.20)	M
PCB-20											
255.9613	22:52	22:54	-4	0.851	4140	751	53	132	14		RQ
257.9584	22:52	22:54	-3	0.852	5452	1121	105	262	11	0.76(0.88-1.20)	
	Empc Correction				3980	722	105	262	7		
PCB-28 (C20)											
255.9613	22:52	22:54	-4	0.851	4140	751	53	132	14		RQ
257.9584	22:52	22:54	-3	0.852	5452	1121	105	262	11	0.76(0.88-1.20)	
	Empc Correction				3980	722	105	262	7		
PCB-21											
255.9613	23:03						53	132			
257.9584	23:03						105	262			
PCB-33 (C21)											
255.9613	23:03						53	132			
257.9584	23:03						105	262			
PCB-22											
255.9613	23:31						53	132			
257.9584	23:31						105	262			
PCB-36											
255.9613	25:03						53	132			
257.9584	25:03						105	262			
PCB-39											
255.9613	25:24						53	132			
257.9584	25:24						105	262			
PCB-38											
255.9613	25:59						53	132			
257.9584	25:59						105	262			
PCB-35											
255.9613	26:28						53	132			
257.9584	26:28						105	262			
PCB-37											
255.9613	26:52						53	132			
257.9584	26:52						105	262			
PCB-54L											
301.9626	20:09	20:09	-3	0.816	722561	177952	139	347	1280		M
303.9597	20:09	20:09	-3	0.816	861697	210335	56	140	3756	0.84(0.65-0.89)	M
PCB-52L											
301.9626	24:40	24:43	-3		1997013	435130	255	637	1706		
303.9597	24:40	24:43	-3		2468545	555527	209	522	2658	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:34						255	637			
303.9597	32:34						209	522			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:34	33:33	-3	1.361	1973854	358903	255	637	1407		
303.9597	33:35	33:33	-2	1.361	2460009	438348	209	522	2097	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:07	-2	1.384	2111248	369280	255	637	1448		
303.9597	34:09	34:07	-2	1.384	2595373	456788	209	522	2186	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12						5	12			
291.9194	20:12						9	22			
PCB-50											
289.9224	22:17						27	67			
291.9194	22:17						99	247			
PCB-53 (C50)											
289.9224	22:17						27	67			
291.9194	22:17						99	247			
PCB-45											
289.9224	23:03						27	67			
291.9194	23:03						99	247			
PCB-51 (C45)											
289.9224	23:03						27	67			
291.9194	23:03						99	247			
PCB-46											
289.9224	23:17						27	67			
291.9194	23:17						99	247			
PCB-52											
289.9224	24:40						27	67			
291.9194	24:40						99	247			
PCB-43											
289.9224	24:49						27	67			
291.9194	24:49						99	247			
PCB-73 (C43)											
289.9224	24:49						27	67			
291.9194	24:49						99	247			
PCB-49											
289.9224	25:06						27	67			
291.9194	25:06						99	247			
PCB-69 (C49)											
289.9224	25:06						27	67			
291.9194	25:06						99	247			
PCB-48											
289.9224	25:26						27	67			
291.9194	25:26						99	247			
PCB-44											
289.9224	25:43	25:40	-2	1.276	3363	597	27	67	22		
291.9194	25:41	25:40	-3	1.275	3963	724	99	247	7	0.85(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:43	25:40	-2	1.276	3363	597	27	67	22		
291.9194	25:41	25:40	-3	1.275	3963	724	99	247	7	0.85(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:43	25:40	-2	1.276	3363	597	27	67	22		
291.9194	25:41	25:40	-3	1.275	3963	724	99	247	7	0.85(0.65-0.89)	
PCB-59											
289.9224	25:59						27	67			
291.9194	25:59						99	247			
PCB-62 (C59)											
289.9224	25:59						27	67			
291.9194	25:59						99	247			
PCB-75 (C59)											
289.9224	25:59						27	67			
291.9194	25:59						99	247			
PCB-42											
289.9224	26:12						27	67			
291.9194	26:12						99	247			
PCB-40											
289.9224	26:41						27	67			
291.9194	26:41						99	247			
PCB-41 (C40)											
289.9224	26:41						27	67			
291.9194	26:41						99	247			
PCB-71 (C40)											
289.9224	26:41						27	67			
291.9194	26:41						99	247			
PCB-64											
289.9224	26:54						27	67			
291.9194	26:54						99	247			
PCB-72											
289.9224	27:45						27	67			
291.9194	27:45						99	247			
PCB-68											
289.9224	28:02						27	67			
291.9194	28:02						99	247			
PCB-57											
289.9224	28:27						27	67			
291.9194	28:27						99	247			
PCB-58											
289.9224	28:42						27	67			
291.9194	28:42						99	247			
PCB-67											
289.9224	28:51						27	67			
291.9194	28:51						99	247			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:07						27	67			
291.9194	29:07						99	247			
PCB-61											
289.9224	29:28						27	67			
291.9194	29:28						99	247			
PCB-70 (C61)											
289.9224	29:28						27	67			
291.9194	29:28						99	247			
PCB-74 (C61)											
289.9224	29:28						27	67			
291.9194	29:28						99	247			
PCB-76 (C61)											
289.9224	29:28						27	67			
291.9194	29:28						99	247			
PCB-66											
289.9224	29:47						27	67			
291.9194	29:47						99	247			
PCB-55											
289.9224	29:57						27	67			
291.9194	29:57						99	247			
PCB-56											
289.9224	30:27						27	67			
291.9194	30:27						99	247			
PCB-60											
289.9224	30:40						27	67			
291.9194	30:40						99	247			
PCB-80											
289.9224	31:04						27	67			
291.9194	31:04						99	247			
PCB-79											
289.9224	32:36						27	67			
291.9194	32:36						99	247			
PCB-78											
289.9224	33:09						27	67			
291.9194	33:09						99	247			
PCB-81											
289.9224	33:35						27	67			
291.9194	33:35						99	247			
PCB-77											
289.9224	34:11						27	67			
291.9194	34:11						99	247			
PCB-104L											
337.9207	25:36	25:37	-3	0.813	1805404	385963	137	342	2817		
339.9178	25:36	25:37	-3	0.813	1114336	249127	46	115	5416	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:34						137	342			
339.9178	28:34						46	115			
PCB-101L											
337.9207	31:29	31:31	-2		1851281	364791	137	342	2663		
339.9178	31:29	31:31	-2		1154756	236569	46	115	5143	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:09	34:09	-2	1.085	1842320	371752	137	342	2714		
339.9178	34:09	34:09	-2	1.085	1179266	233904	46	115	5085	1.56(1.32-1.78)	
PCB-123L											
337.9207	36:07	36:07	-2	1.147	2646887	513631	4505	11262	114		
339.9178	36:07	36:07	-2	1.147	1687873	325787	1639	4097	199	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:26	36:27	-3	1.157	2791285	521932	4505	11262	116		
339.9178	36:26	36:27	-3	1.157	1776192	339643	1639	4097	207	1.57(1.32-1.78)	
PCB-114L											
337.9207	36:59	36:58	-2	1.174	2741218	531244	4505	11262	118		
339.9178	36:59	36:58	-2	1.174	1703674	329198	1639	4097	201	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:37	-2	1.195	2784965	510655	4505	11262	113		
339.9178	37:38	37:37	-2	1.195	1707202	314977	1639	4097	192	1.63(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-2		3327234	620806	4505	11262	138		
339.9178	39:06	39:07	-2		2119920	391402	1639	4097	239	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:42	-2	1.293	2763225	495937	4505	11262	110		
339.9178	40:43	40:42	-2	1.293	1759478	312548	1639	4097	191	1.57(1.32-1.78)	
PCB-104											
325.8804	25:37						69	172			
327.8775	25:37						13	32			
PCB-96											
325.8804	26:01						69	172			
327.8775	26:01						13	32			
PCB-103											
325.8804	27:54						69	172			
327.8775	27:54						13	32			
PCB-94											
325.8804	28:09						69	172			
327.8775	28:09						13	32			
PCB-95											
325.8804	28:36						69	172			
327.8775	28:36						13	32			
PCB-93											
325.8804	28:47						69	172			
327.8775	28:47						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:47						69	172			
327.8775	28:47						13	32			
PCB-98											
325.8804	28:57						69	172			
327.8775	28:57						13	32			
PCB-102 (C98)											
325.8804	28:57						69	172			
327.8775	28:57						13	32			
PCB-88											
325.8804	29:26						69	172			
327.8775	29:26						13	32			
PCB-91 (C88)											
325.8804	29:26						69	172			
327.8775	29:26						13	32			
PCB-84											
325.8804	29:41						69	172			
327.8775	29:41						13	32			
PCB-89											
325.8804	30:09						69	172			
327.8775	30:09						13	32			
PCB-121											
325.8804	30:31						69	172			
327.8775	30:31						13	32			
PCB-92											
325.8804	30:57						69	172			
327.8775	30:57						13	32			
PCB-90											
325.8804	31:30	31:28	-2	1.231	1781	316	69	172	5		RQ
	Empc Correction				492	170	69	172	2		
327.8775	31:29	31:28	-3	1.230	318	110	13	32	8	5.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:30	31:28	-2	1.231	1781	316	69	172	5		RQ
	Empc Correction				492	170	69	172	2		
327.8775	31:29	31:28	-3	1.230	318	110	13	32	8	5.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:30	31:28	-2	1.231	1781	316	69	172	5		RQ
	Empc Correction				492	170	69	172	2		
327.8775	31:29	31:28	-3	1.230	318	110	13	32	8	5.60(1.32-1.78)	
PCB-83											
325.8804	32:04						69	172			
327.8775	32:04						13	32			
PCB-99 (C83)											
325.8804	32:04						69	172			
327.8775	32:04						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-112											
325.8804	32:11						69	172			
327.8775	32:11						13	32			
PCB-86											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-87 (C86)											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-97 (C86)											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-109 (C86)											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-119 (C86)											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-125 (C86)											
325.8804	32:35						69	172			
327.8775	32:35						13	32			
PCB-85											
325.8804	33:16						69	172			
327.8775	33:16						13	32			
PCB-116 (C85)											
325.8804	33:16						69	172			
327.8775	33:16						13	32			
PCB-117 (C85)											
325.8804	33:16						69	172			
327.8775	33:16						13	32			
PCB-110											
325.8804	33:29						69	172			
327.8775	33:29						13	32			
PCB-115 (C110)											
325.8804	33:29						69	172			
327.8775	33:29						13	32			
PCB-82											
325.8804	33:49	33:48	-3	1.321	1378	452	69	172	7		RQ
	Empc Correction				807	305	69	172	4		
327.8775	33:49	33:48	-2	1.322	521	197	13	32	15	2.64(1.32-1.78)	
PCB-111											
325.8804	34:09						69	172			
327.8775	34:09						13	32			
PCB-120											
325.8804	34:37						69	172			
327.8775	34:37						13	32			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-108											
325.8804	35:46						137	342			
327.8775	35:46						48	120			
PCB-124 (C108)											
325.8804	35:46						137	342			
327.8775	35:46						48	120			
PCB-107											
325.8804	36:00						137	342			
327.8775	36:00						48	120			
PCB-123											
325.8804	36:09						137	342			
327.8775	36:09						48	120			
PCB-106											
325.8804	36:16						137	342			
327.8775	36:16						48	120			
PCB-118											
325.8804	36:28						137	342			
327.8775	36:28						48	120			
PCB-122											
325.8804	36:49						137	342			
327.8775	36:49						48	120			
PCB-114											
325.8804	37:00						137	342			
327.8775	37:00						48	120			
PCB-105											
325.8804	37:40						137	342			
327.8775	37:40						48	120			
PCB-127											
325.8804	39:07						137	342			
327.8775	39:07						48	120			
PCB-126											
325.8804	40:44						137	342			
327.8775	40:44						48	120			
PCB-155L											
371.8817	31:14	31:14	-2	0.789	1394426	292602	43	107	6805		
373.8788	31:14	31:14	-2	0.789	1106166	230089	48	120	4794	1.26(1.05-1.43)	
PCB-153L											
371.8817	38:17	38:19	-3	0.900	38979	7565	795	1987	10		
373.8788	38:17	38:19	-3	0.900	27361	5494	1060	2650	5	1.42(1.05-1.43)	
PCB-138L											
371.8817	39:34	39:36	-2		2068162	400504	795	1987	504		
373.8788	39:33	39:36	-3		1652705	321054	1060	2650	303	1.25(1.05-1.43)	
PCB-159L											
371.8817	41:55						795	1987			
373.8788	41:55						1060	2650			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167L											
371.8817	42:33	42:32	-2	1.075	2190712	423649	795	1987	533		
373.8788	42:33	42:32	-2	1.075	1709407	320297	1060	2650	302	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:43	43:42	-2	1.105	4476040	561809	795	1987	707		
373.8788	43:43	43:42	-2	1.105	3419988	413024	1060	2650	390	1.31(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:43	43:42	-2	1.105	4476040	561809	795	1987	707		
373.8788	43:43	43:42	-2	1.105	3419988	413024	1060	2650	390	1.31(1.05-1.43)	
PCB-169L											
371.8817	46:56	46:55	-2	1.186	2300926	422216	795	1987	531		
373.8788	46:56	46:55	-2	1.186	1853913	324965	1060	2650	307	1.24(1.05-1.43)	
PCB-155											
359.8415	31:15						9	22			
361.8385	31:15						5	12			
PCB-152											
359.8415	31:29						9	22			
361.8385	31:29						5	12			
PCB-150											
359.8415	31:39						9	22			
361.8385	31:39						5	12			
PCB-136											
359.8415	32:02						9	22			
361.8385	32:02						5	12			
PCB-145											
359.8415	32:18						9	22			
361.8385	32:18						5	12			
PCB-148											
359.8415	33:48						9	22			
361.8385	33:48						5	12			
PCB-135											
359.8415	34:29						9	22			
361.8385	34:29						5	12			
PCB-151 (C135)											
359.8415	34:29						9	22			
361.8385	34:29						5	12			
PCB-154											
359.8415	34:38						9	22			
361.8385	34:38						5	12			
PCB-144											
359.8415	34:57						9	22			
361.8385	34:57						5	12			
PCB-147											
359.8415	35:19	35:20	-3	1.131	900	330	21	52	16		RQ
361.8385	35:19	35:20	-3	1.131	1739	648	11	27	59	0.52(1.05-1.43)	
	Empc Correction				725	266	11	27	24		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-149 (C147)											RQ
359.8415	35:19	35:20	-3	1.131	900	330	21	52	16		
361.8385	35:19	35:20	-3	1.131	1739	648	11	27	59	0.52(1.05-1.43)	
Empc Correction					725	266	11	27	24		
PCB-134											
359.8415	35:38						21	52			
361.8385	35:38						11	27			
PCB-143 (C134)											
359.8415	35:38						21	52			
361.8385	35:38						11	27			
PCB-139											
359.8415	35:55						21	52			
361.8385	35:55						11	27			
PCB-140 (C139)											
359.8415	35:55						21	52			
361.8385	35:55						11	27			
PCB-131											
359.8415	36:08						21	52			
361.8385	36:08						11	27			
PCB-142											
359.8415	36:16						21	52			
361.8385	36:16						11	27			
PCB-132											
359.8415	36:37	36:36	-2	1.172	841	245	21	52	12		
361.8385	36:37	36:36	-1	1.173	614	164	11	27	15	1.37(1.05-1.43)	
PCB-133											
359.8415	37:04						21	52			
361.8385	37:04						11	27			
PCB-165											
359.8415	37:29						21	52			
361.8385	37:29						11	27			
PCB-146											
359.8415	37:44						21	52			
361.8385	37:44						11	27			
PCB-161											
359.8415	37:51						21	52			
361.8385	37:51						11	27			
PCB-153											RQM
359.8415	38:21	38:21	-2	0.901	429	209	21	52	10		M
361.8385	38:21	38:21	-2	0.901	947	299	11	27	27	0.45(1.05-1.43)	M
Empc Correction					345	168	11	27	15		
PCB-168 (C153)											RQM
359.8415	38:21	38:21	-2	0.901	429	209	21	52	10		M
361.8385	38:21	38:21	-2	0.901	947	299	11	27	27	0.45(1.05-1.43)	M
Empc Correction					345	168	11	27	15		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-141											
359.8415	38:33						21	52			
361.8385	38:33						11	27			
PCB-130											
359.8415	38:58						21	52			
361.8385	38:58						11	27			
PCB-137											
359.8415	39:10						21	52			
361.8385	39:10						11	27			
PCB-164											
359.8415	39:17	39:17	-2	0.923	1074	411	21	52	20		RQM
	Empc Correction				285	158	21	52	8		M
361.8385	39:18	39:17	-1	0.924	230	128	11	27	12	4.67(1.05-1.43)	
PCB-129											
359.8415	39:36						21	52			
361.8385	39:36						11	27			
PCB-138 (C129)											
359.8415	39:36						21	52			
361.8385	39:36						11	27			
PCB-160 (C129)											
359.8415	39:36						21	52			
361.8385	39:36						11	27			
PCB-163 (C129)											
359.8415	39:36						21	52			
361.8385	39:36						11	27			
PCB-158											
359.8415	39:59						21	52			
361.8385	39:59						11	27			
PCB-128											
359.8415	40:51	40:50	0	0.960	790	203	21	52	10		RQ
	Empc Correction				417	169	21	52	8		
361.8385	40:52	40:50	1	0.960	337	137	11	27	12	2.34(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:51	40:50	0	0.960	790	203	21	52	10		RQ
	Empc Correction				417	169	21	52	8		
361.8385	40:52	40:50	1	0.960	337	137	11	27	12	2.34(1.05-1.43)	
PCB-159											
359.8415	41:50	41:49	0	0.983	355	144	21	52	7		RQ
361.8385	41:49	41:49	-1	0.983	431	133	11	27	12	0.82(1.05-1.43)	
	Empc Correction				286	116	11	27	11		
PCB-162											
359.8415	42:06						21	52			
361.8385	42:06						11	27			
PCB-167											
359.8415	42:34						21	52			
361.8385	42:34						11	27			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156											
359.8415	43:45						21	52			
361.8385	43:45						11	27			
PCB-157 (C156)											
359.8415	43:45						21	52			
361.8385	43:45						11	27			
PCB-169											
359.8415	46:58						21	52			
361.8385	46:58						11	27			
PCB-188L											
405.8428	36:57	36:57	-2	0.820	1530832	309964	112	280	2768		
407.8398	36:57	36:57	-2	0.820	1438826	288777	4	10	72194	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:01	-2	0.887	1146296	223958	112	280	2000		
407.8398	40:01	40:01	-2	0.887	1037006	202811	4	10	50703	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:05	45:07	-2		1467396	283995	112	280	2536		
407.8398	45:05	45:07	-2		1351515	259544	4	10	64886	1.09(0.89-1.21)	
PCB-170L											
405.8428	46:21	46:21	-2	1.028	1054620	201427	112	280	1798		
407.8398	46:21	46:21	-2	1.028	978635	188498	4	10	47125	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:27	49:27	-2	1.097	2443997	454833	522	1305	871		
407.8398	49:27	49:27	-2	1.097	2360534	427294	331	827	1291	1.04(0.89-1.21)	
PCB-188											
393.8025	36:59						24	60			
395.7995	36:59						2	5			
PCB-179											
393.8025	37:21						24	60			
395.7995	37:21						2	5			
PCB-184											
393.8025	37:50						24	60			
395.7995	37:50						2	5			
PCB-176											
393.8025	38:13						24	60			
395.7995	38:13						2	5			
PCB-186											
393.8025	38:40						24	60			
395.7995	38:40						2	5			
PCB-178											
393.8025	40:02						24	60			
395.7995	40:02						2	5			
PCB-175											
393.8025	40:39						24	60			
395.7995	40:39						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-187											
393.8025	40:56						24	60			
395.7995	40:56						2	5			
PCB-182											
393.8025	41:07						24	60			
395.7995	41:07						2	5			
PCB-183											
393.8025	41:32						24	60			RQU
395.7995	41:32						2	5			
PCB-185 (C183)											
393.8025	41:32						24	60			RQU
395.7995	41:32						2	5			
PCB-174											
393.8025	41:48						24	60			
395.7995	41:48						2	5			
PCB-177											
393.8025	42:14						24	60			
395.7995	42:14						2	5			
PCB-181											
393.8025	42:36						24	60			
395.7995	42:36						2	5			
PCB-171											
393.8025	42:50						24	60			
395.7995	42:50						2	5			
PCB-173 (C171)											
393.8025	42:50						24	60			
395.7995	42:50						2	5			
PCB-172											
393.8025	44:28						24	60			
395.7995	44:28						2	5			
PCB-192											
393.8025	44:46	44:45	0	0.905	588	235	24	60	10		RQ
395.7995	44:45	44:45	-1	0.905	695	354	2	5	177	0.85(0.89-1.21)	
Empc Correction					560	223	2	5	112		
PCB-180											
393.8025	45:05						24	60			
395.7995	45:05						2	5			
PCB-193 (C180)											
393.8025	45:05						24	60			
395.7995	45:05						2	5			
PCB-191											
393.8025	45:28						24	60			
395.7995	45:28						2	5			
PCB-170											
393.8025	46:23						24	60			
395.7995	46:23						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-190											
393.8025	46:54						24	60			
395.7995	46:54						2	5			
PCB-189											
393.8025	49:28						32	80			
395.7995	49:28						20	50			
PCB-202L											
439.8038	42:19	42:18	-2	0.821	1065455	206518	18	45	11473		
441.8008	42:19	42:18	-2	0.821	1170639	228966	19	47	12051	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:35	-2		1811631	342683	84	210	4080		
441.8008	51:33	51:35	-2		1981733	363474	75	187	4846	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:01	52:00	-2	1.009	1926371	370374	84	210	4409		
441.8008	52:01	52:00	-2	1.009	2124756	393073	75	187	5241	0.91(0.76-1.02)	
PCB-202											
427.7635	42:20						10	25			
429.7606	42:20						2	5			
PCB-201											
427.7635	43:15						10	25			
429.7606	43:15						2	5			
PCB-204											
427.7635	43:55						10	25			
429.7606	43:55						2	5			
PCB-197											
427.7635	44:09						10	25			
429.7606	44:09						2	5			
PCB-200											
427.7635	44:17						10	25			
429.7606	44:17						2	5			
PCB-198											
427.7635	47:02						10	25			
429.7606	47:02						2	5			
PCB-199 (C198)											
427.7635	47:02						10	25			
429.7606	47:02						2	5			
PCB-196											
427.7635	47:43						10	25			
429.7606	47:43						2	5			
PCB-203											
427.7635	47:55						10	25			
429.7606	47:55						2	5			
PCB-195											
427.7635	49:15						29	72			
429.7606	49:15						6	15			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194											
427.7635	51:34						29	72			
429.7606	51:34						6	15			
PCB-205											
427.7635	52:04	52:03	0	1.001	662	347	29	72	12		RQ
	Empc Correction				190	62	29	72	2		
429.7606	52:02	52:03	-2	1.000	214	70	6	15	12	3.09(0.76-1.02)	
PCB-208L											
473.7648	48:58	48:58	-2	0.950	1472003	274199	194	485	1413		
475.7619	48:58	48:58	-2	0.950	1800636	334376	191	477	1751	0.82(0.65-0.89)	
PCB-206L											
473.7648	53:46	53:45	-2	1.043	1095691	213307	194	485	1100		
475.7619	53:46	53:45	-2	1.043	1355179	254231	191	477	1331	0.81(0.65-0.89)	
PCB-208											
461.7246	48:59						47	117			
463.7216	48:59						80	200			
PCB-207											
461.7246	49:54						47	117			
463.7216	49:54						80	200			
PCB-206											
461.7246	53:48						47	117			
463.7216	53:48						80	200			
PCB-209L											
507.7258	55:22	55:22	-2	1.074	1085323	188634	57	142	3309		
509.7229	55:23	55:22	-2	1.074	1497057	264493	70	175	3778	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:23						7	17			
497.6826	55:23						2	5			
PCB-28L (PRC)											
0.0											
PCB-47L (PRC)											
0.0											
PCB-8L (PRC)											
0.0											
PCB-141L (PRC)											
0.0											
PCB-111L (PRC)											
0.0											
PCB-70L (PRC)											
0.0											
PCB-182L (PRC)											
0.0											
PCB-80L (PRC)											
0.0											

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

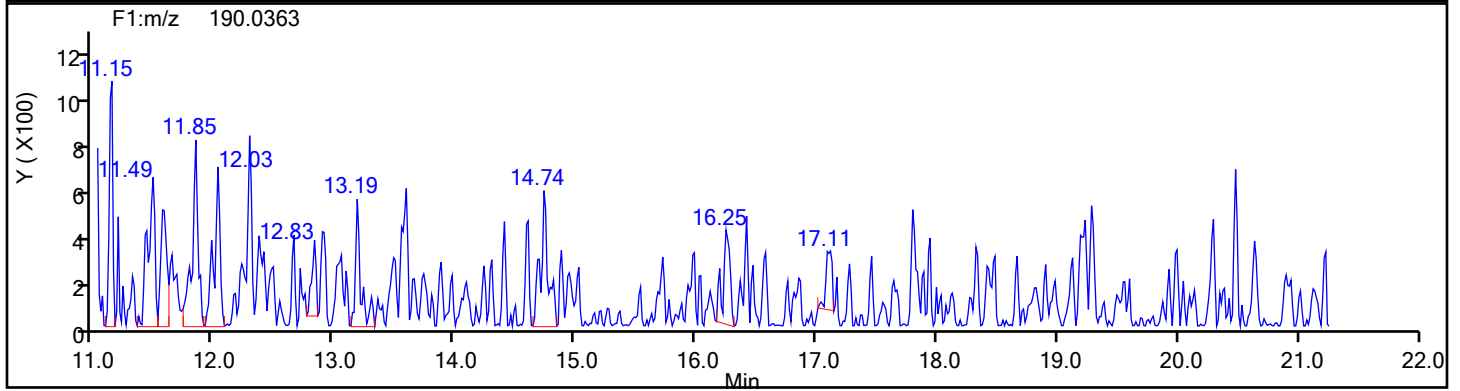
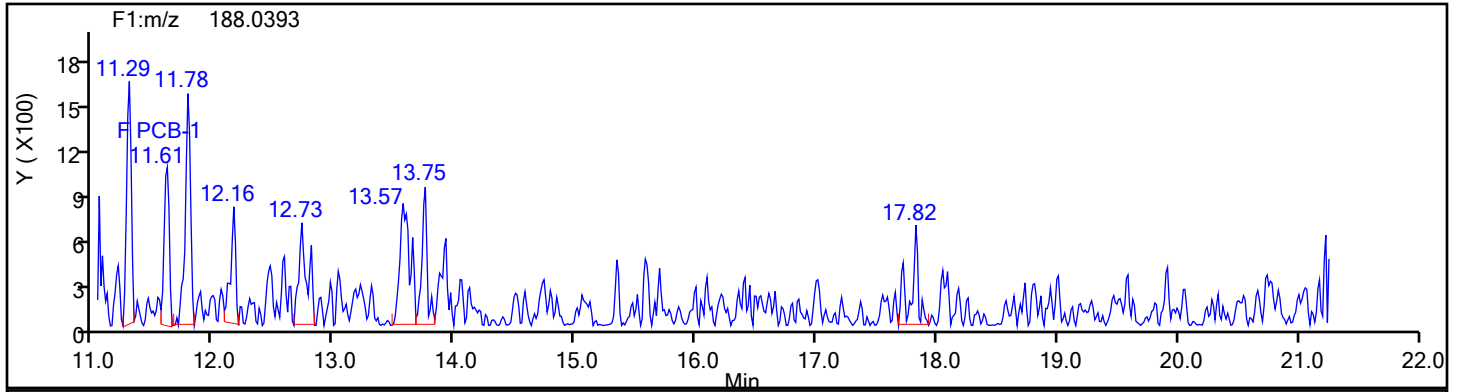
Worklist#: 88747

Sample Line#: 8

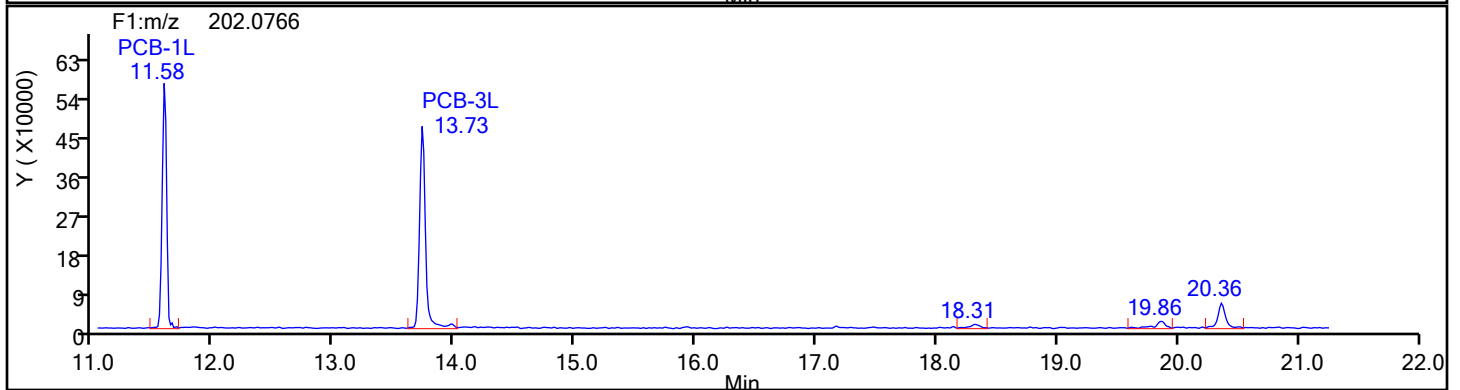
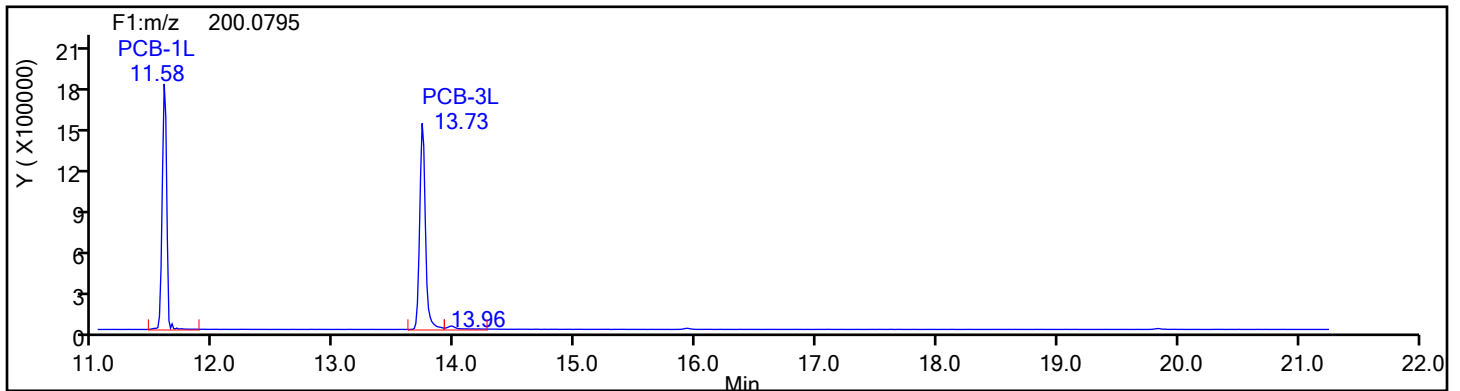
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

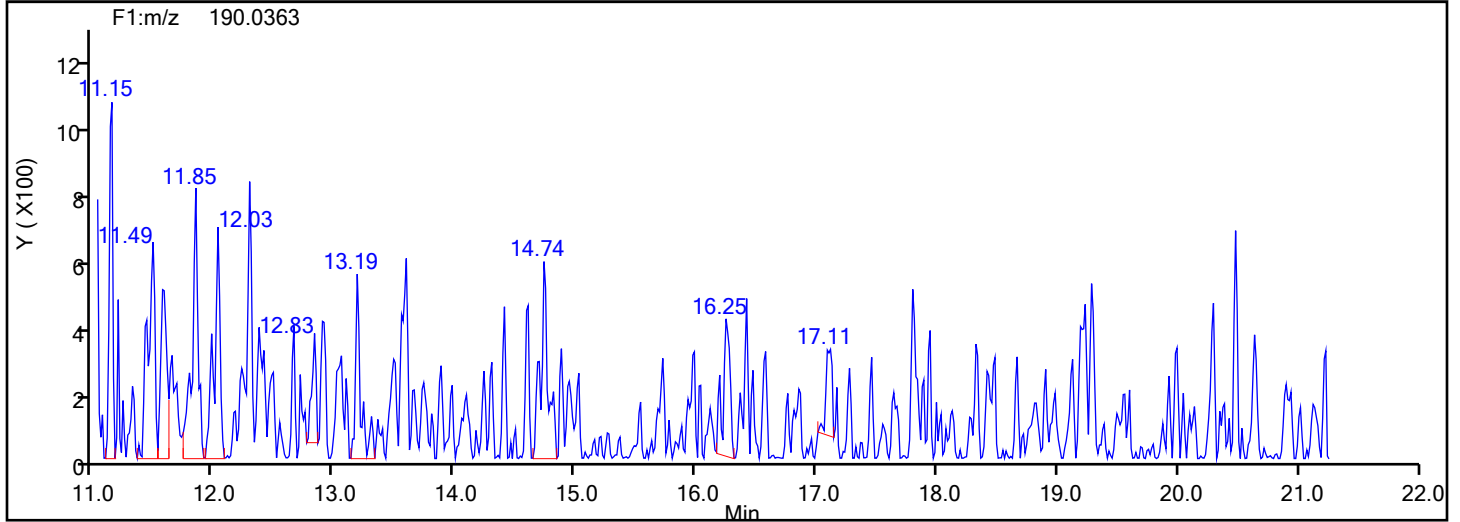
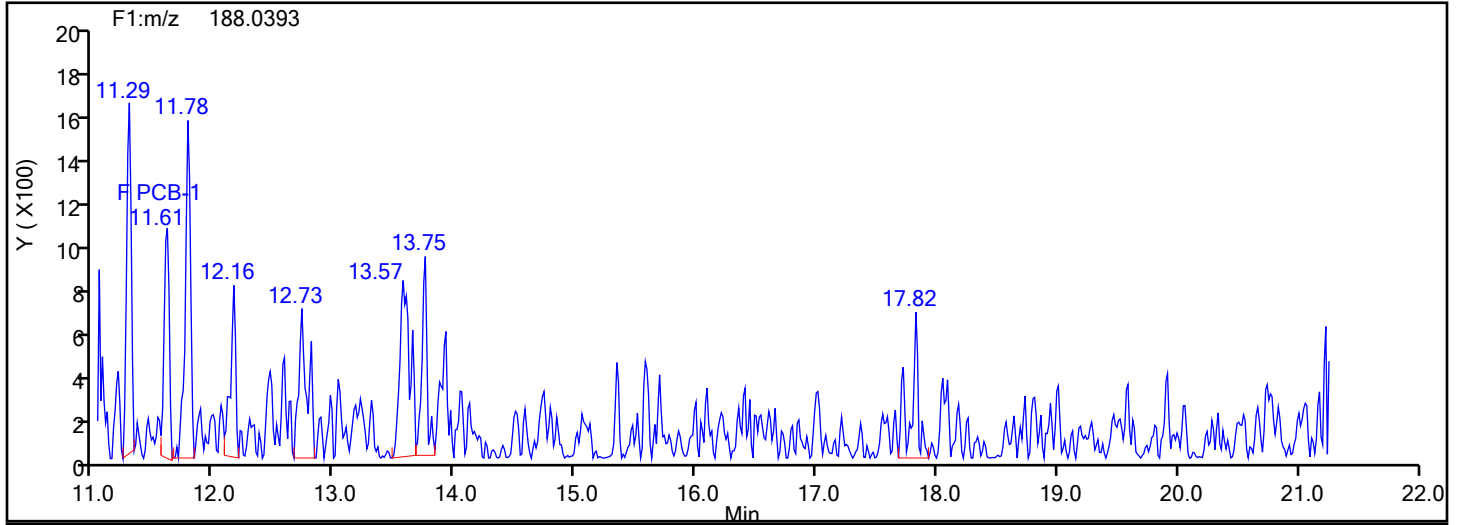
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Sample Line#: 8

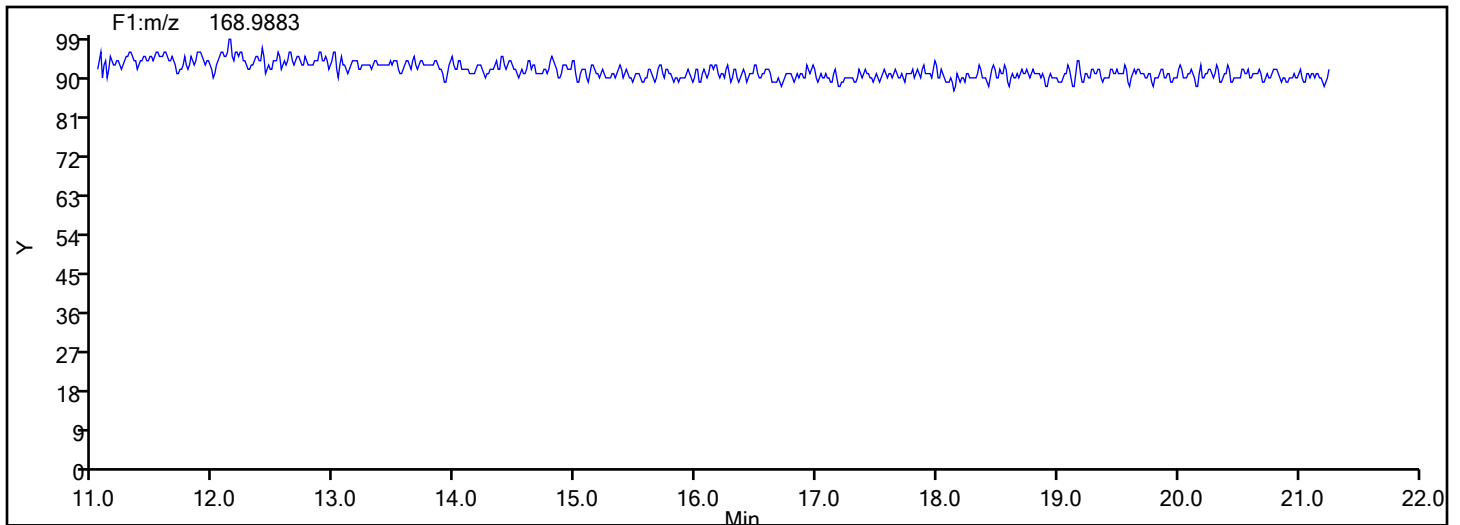
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Instrument ID: D2D

Lims ID: MB 140-88193/21-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

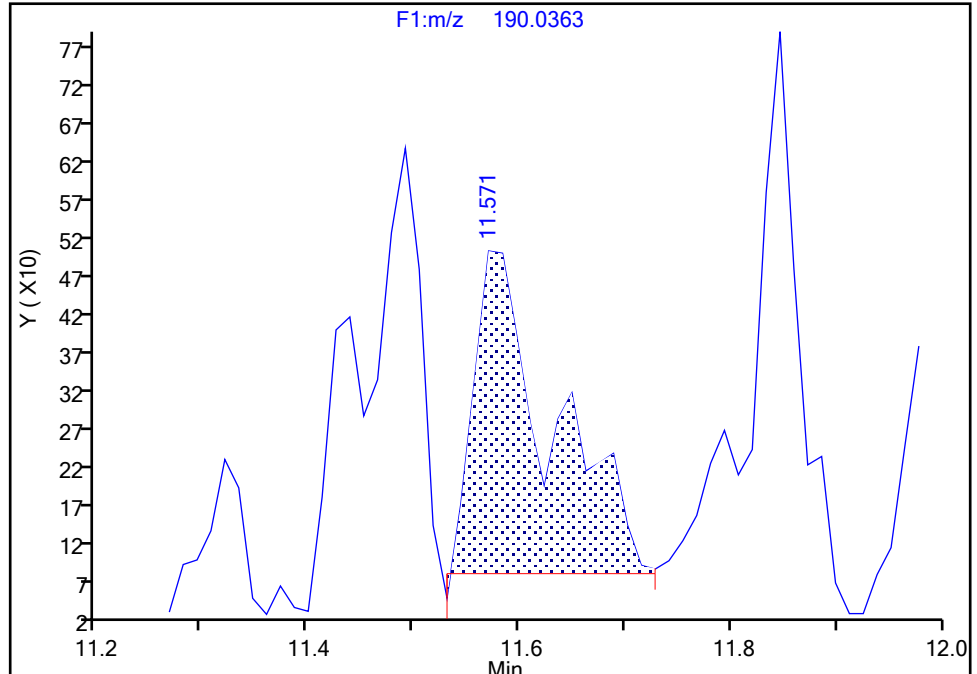
F1(11.07 :21.70)

PCB-1, CAS: 2051-60-7

Signal: 2

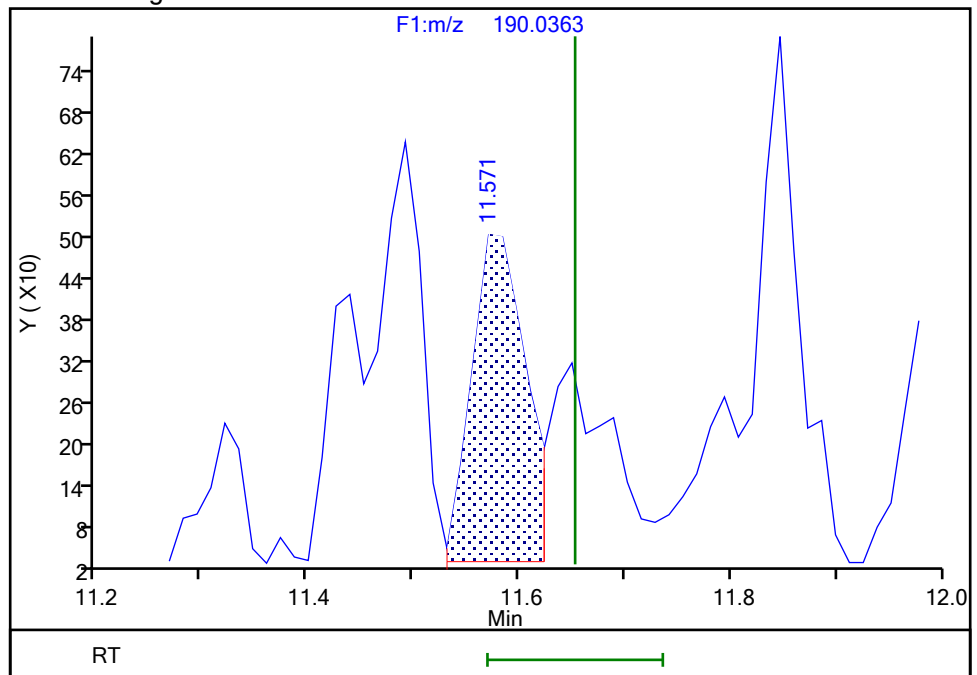
RT: 11.57
Area: 2175
Amount: 0.069396
Amount Units: pg/ul

Processing Integration Results



RT: 11.57
Area: 1655
Amount: 0.062106
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:49:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Instrument ID: D2D

Lims ID: MB 140-88193/21-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

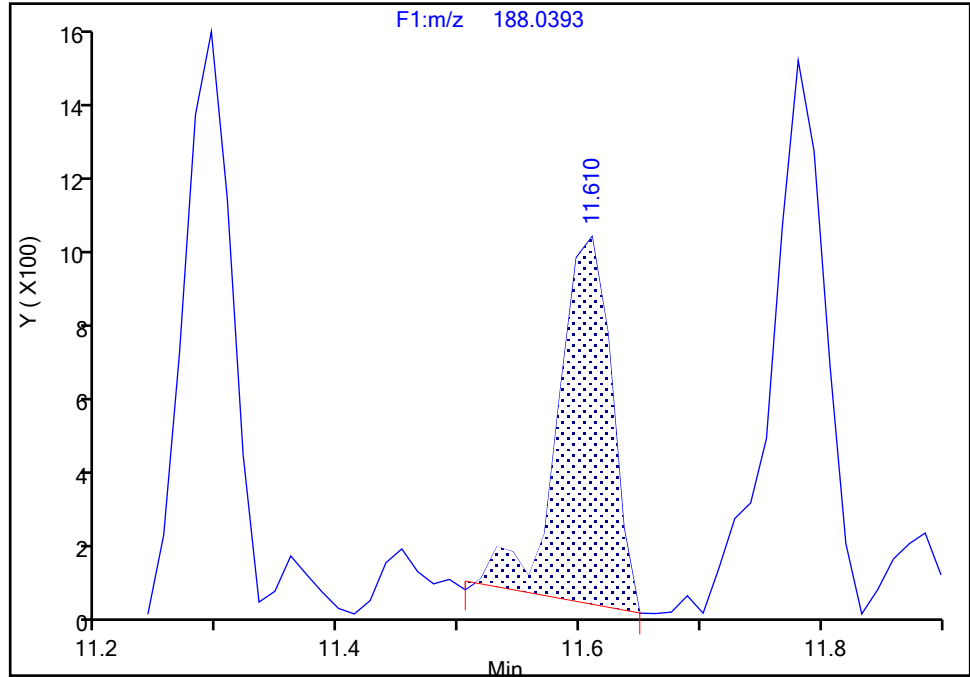
F1(11.07 :21.70)

PCB-1, CAS: 2051-60-7

Signal: 1

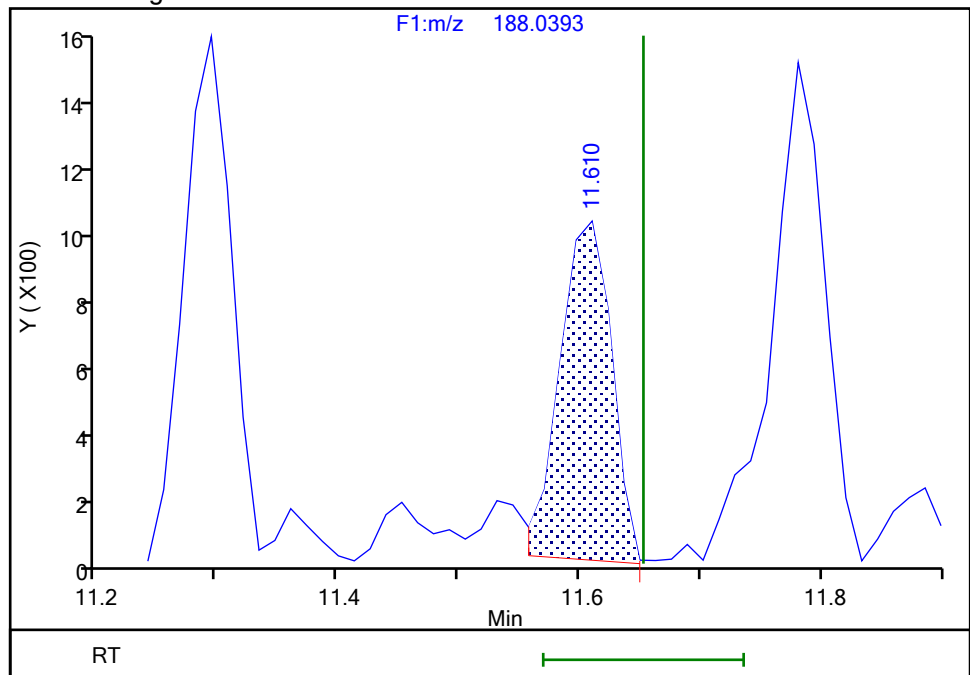
RT: 11.61
Area: 3032
Amount: 0.069396
Amount Units: pg/ul

Processing Integration Results



RT: 11.61
Area: 3005
Amount: 0.062106
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:49:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2867 of 3050

BASFWC-McIntosh-010868

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

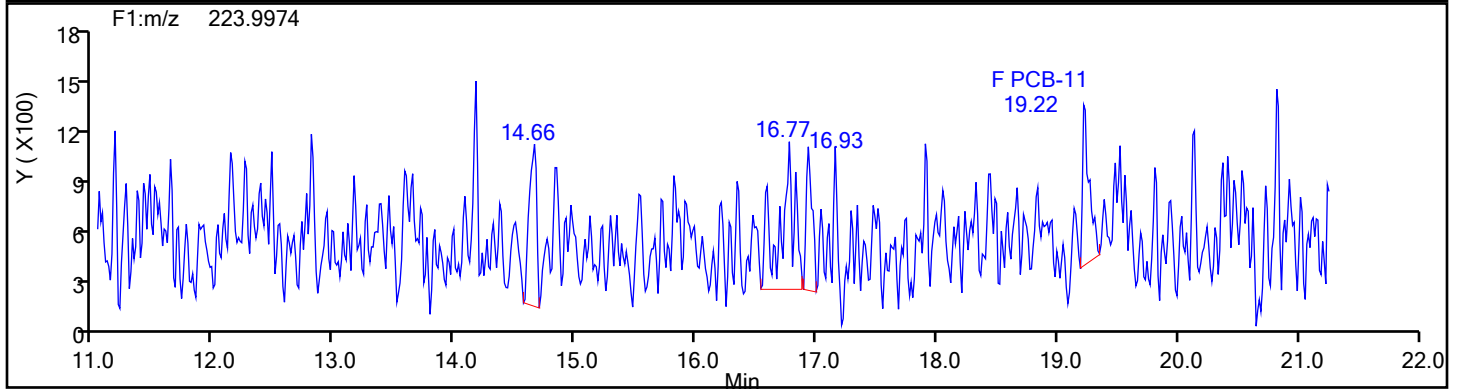
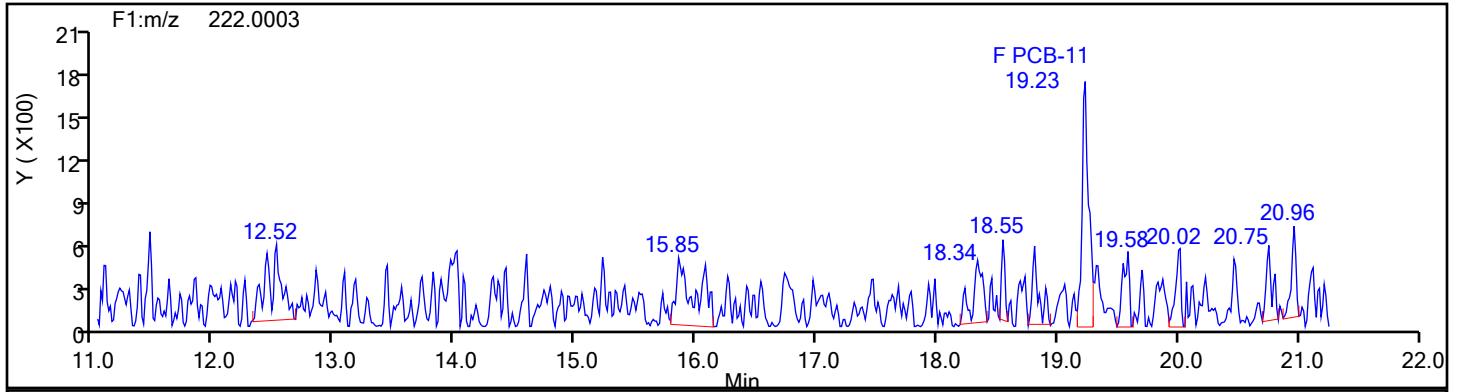
Worklist#: 88747

Sample Line#: 8

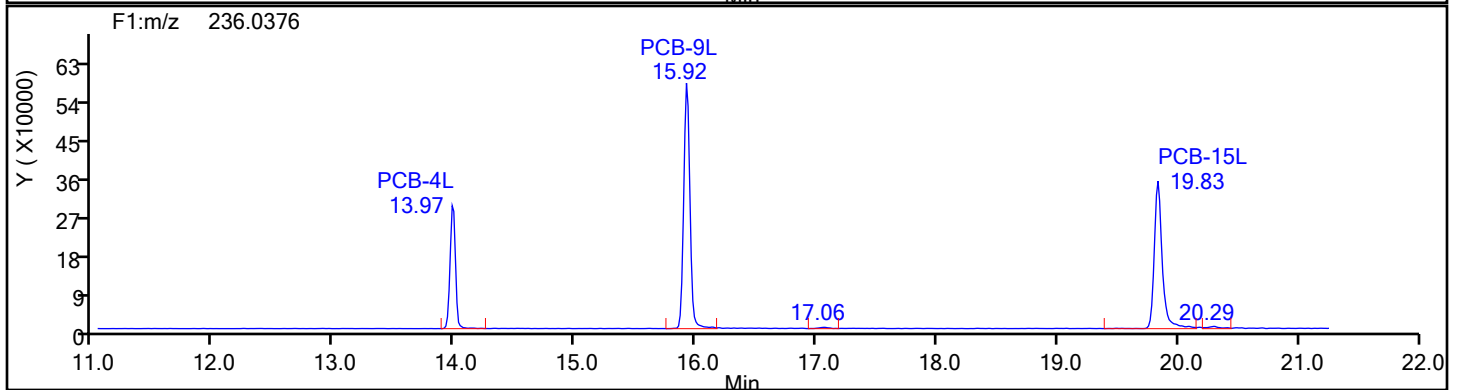
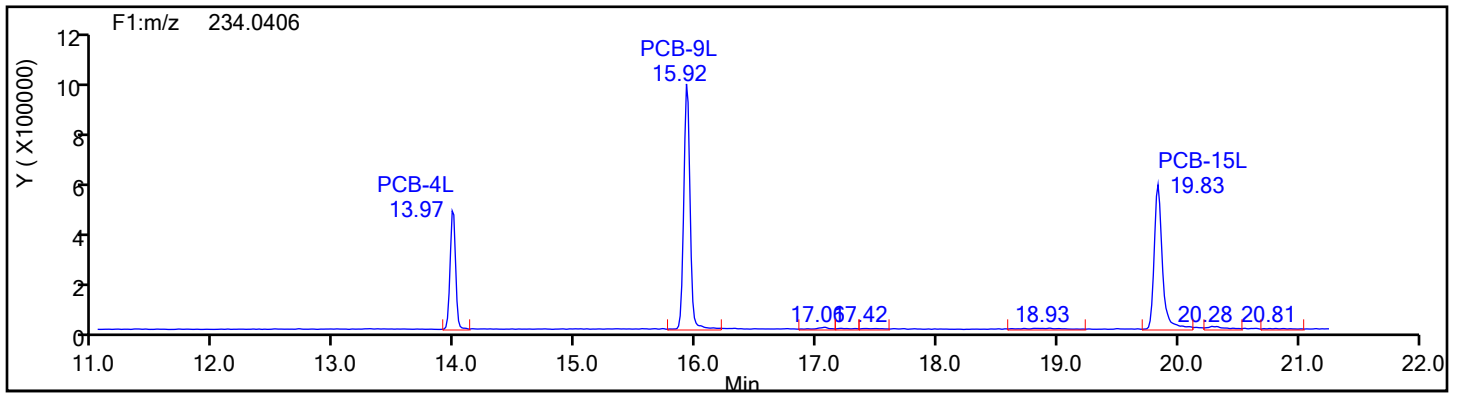
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

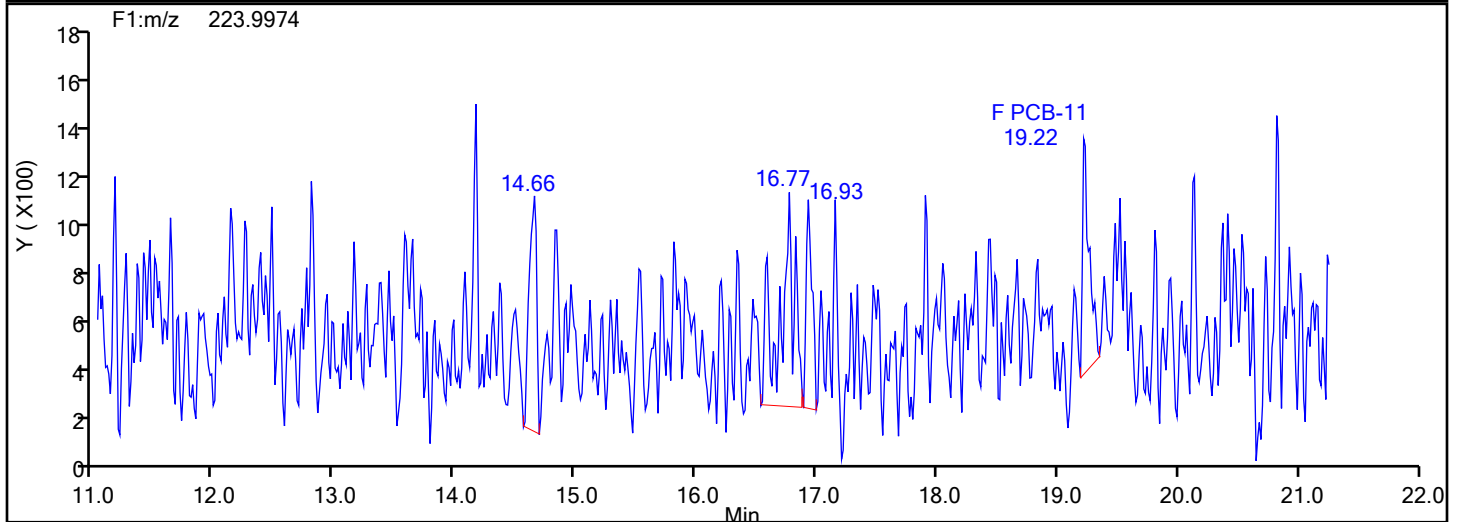
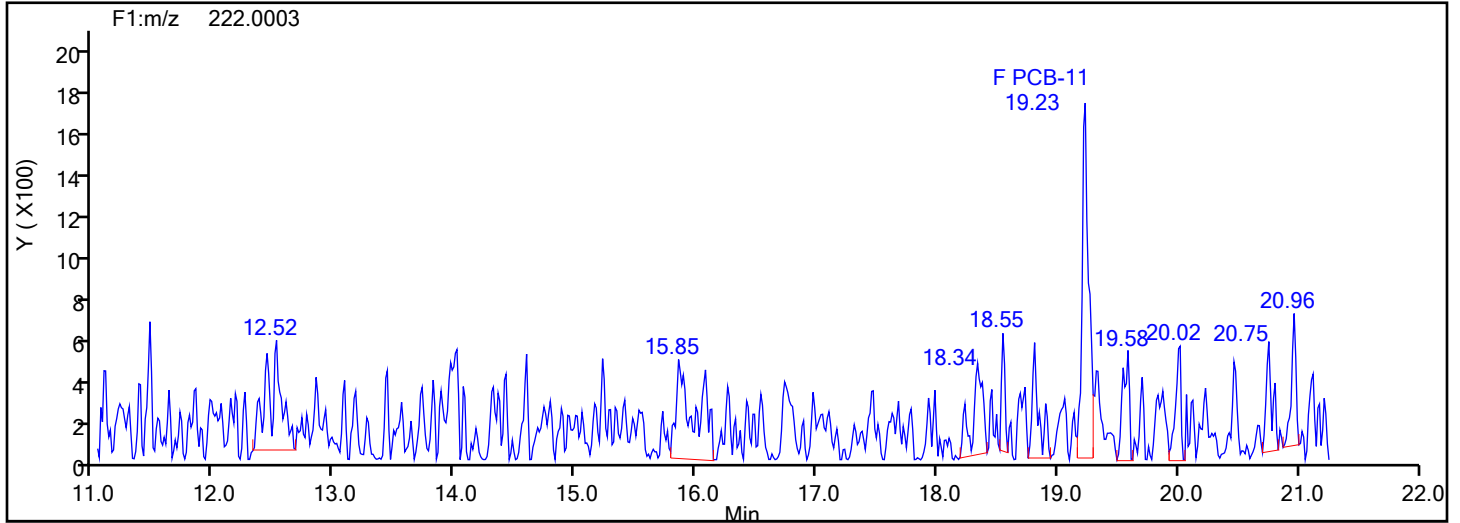
Worklist#: 88747

Sample Line#: 8

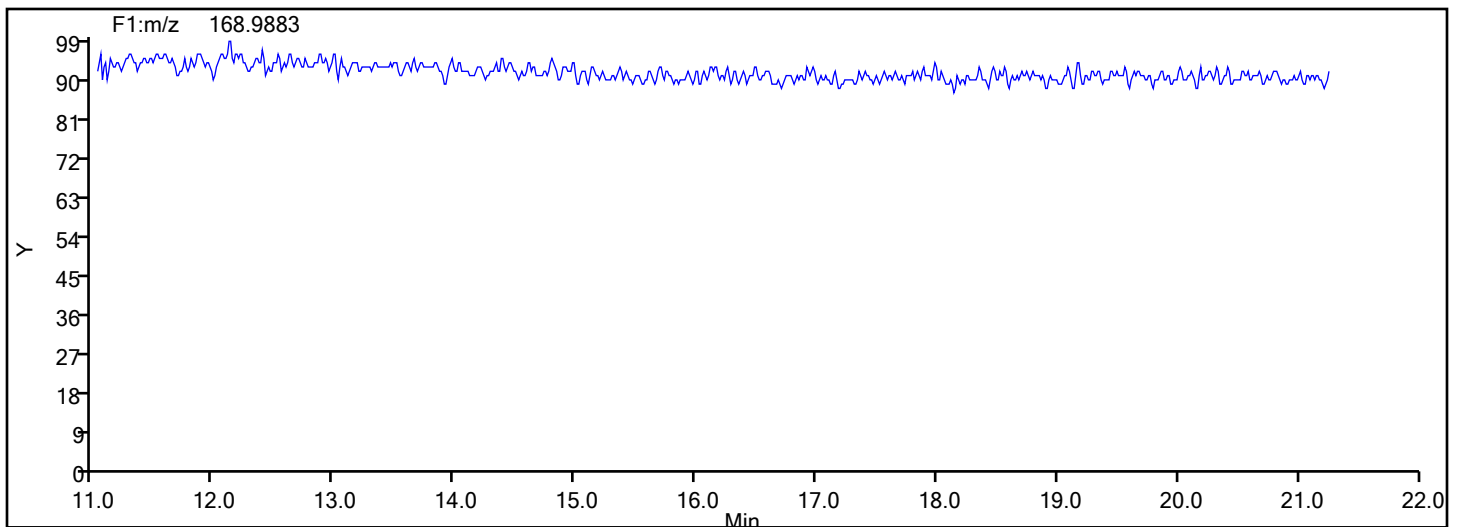
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

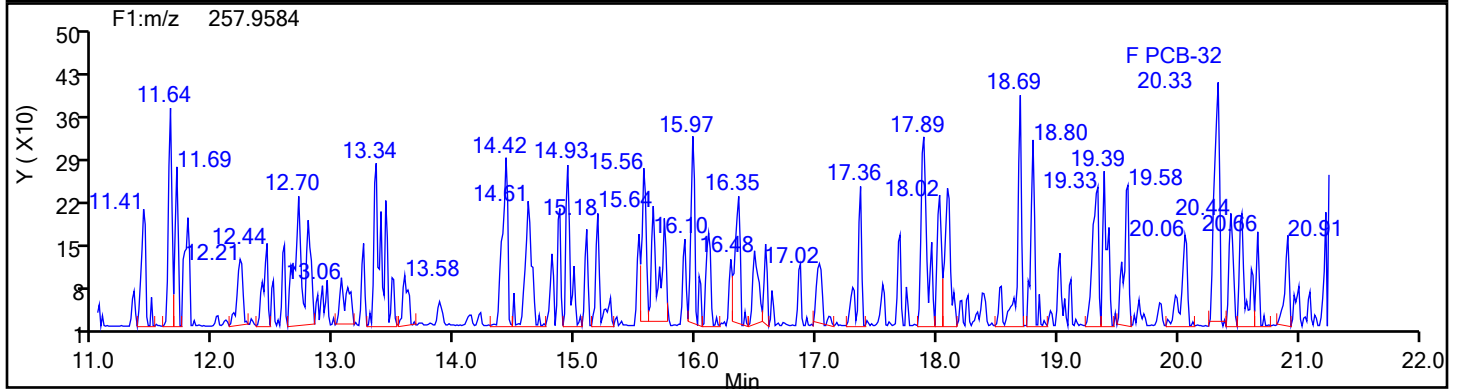
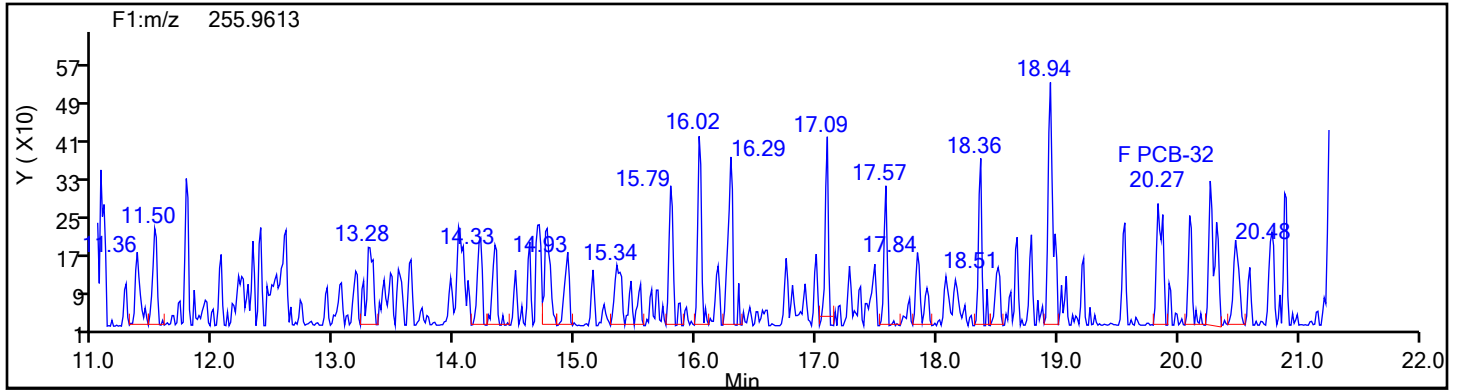
Worklist#: 88747

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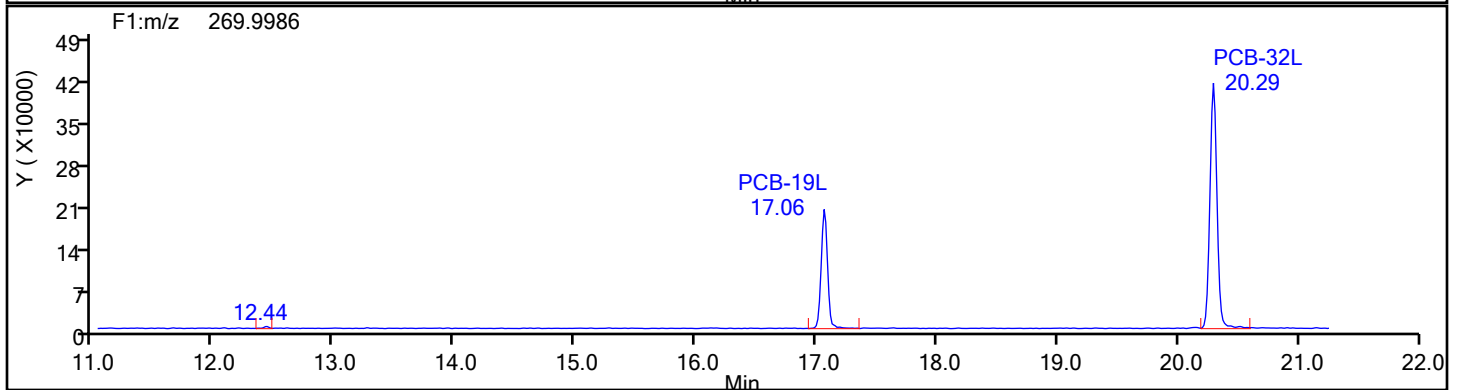
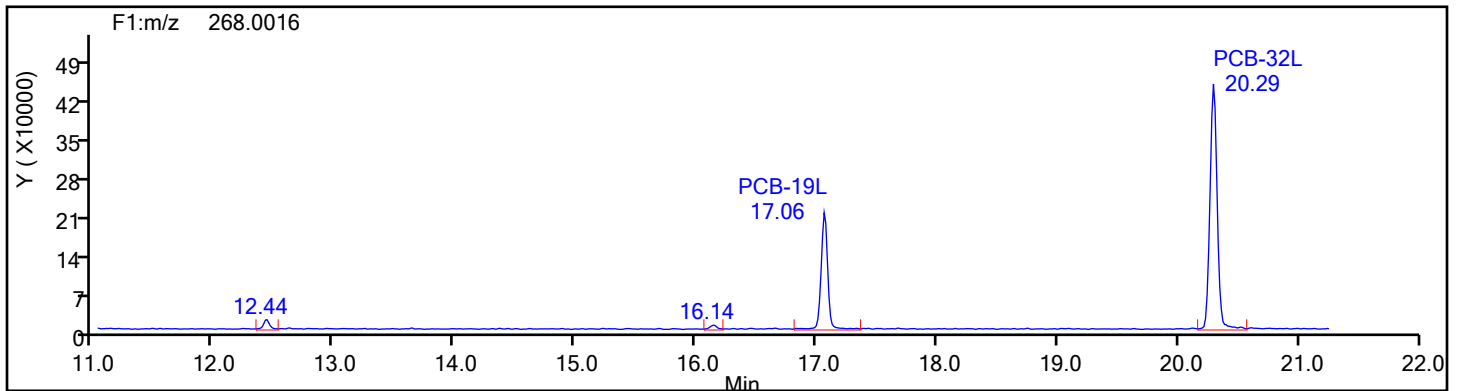
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

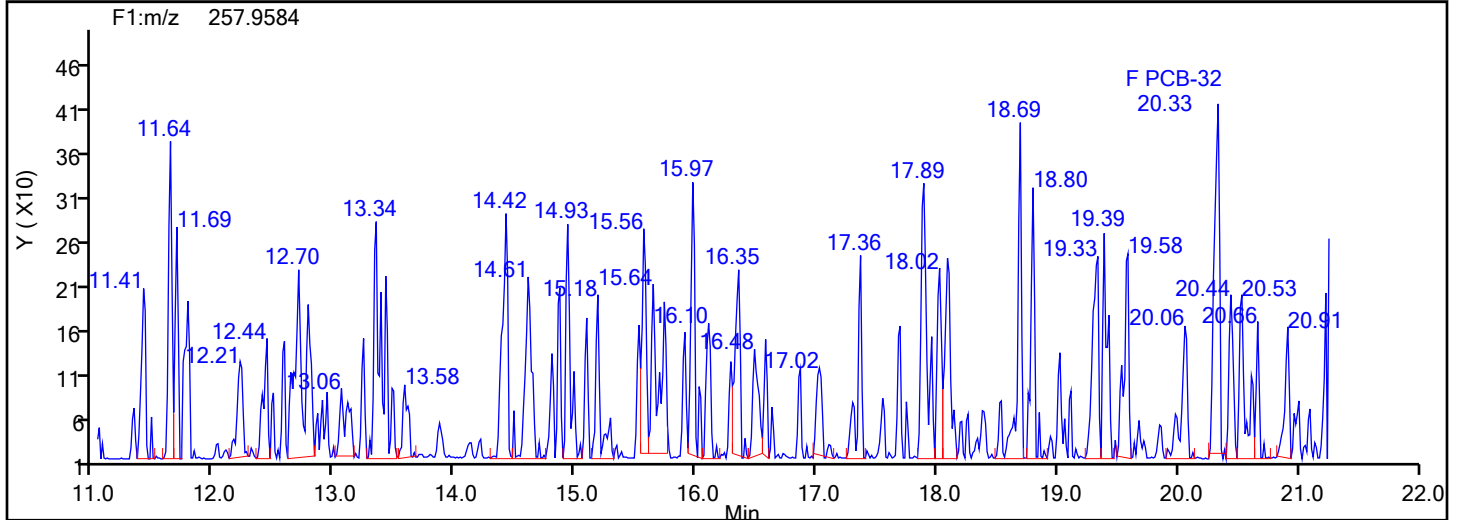
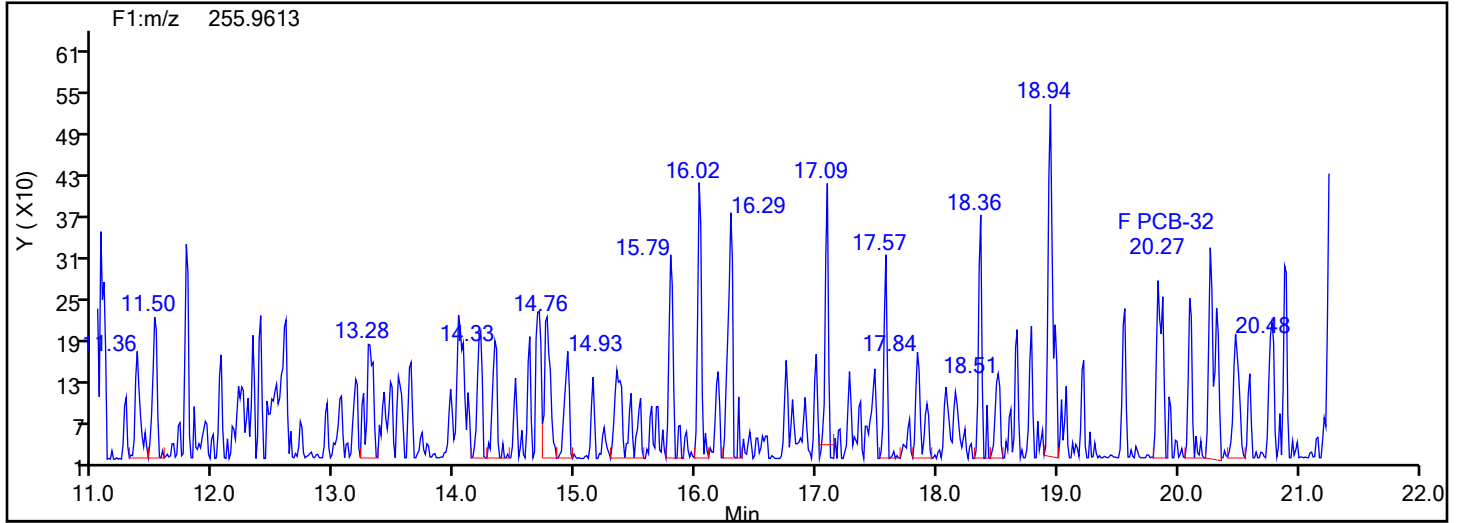
Worklist#: 88747

Sample Line#: 8

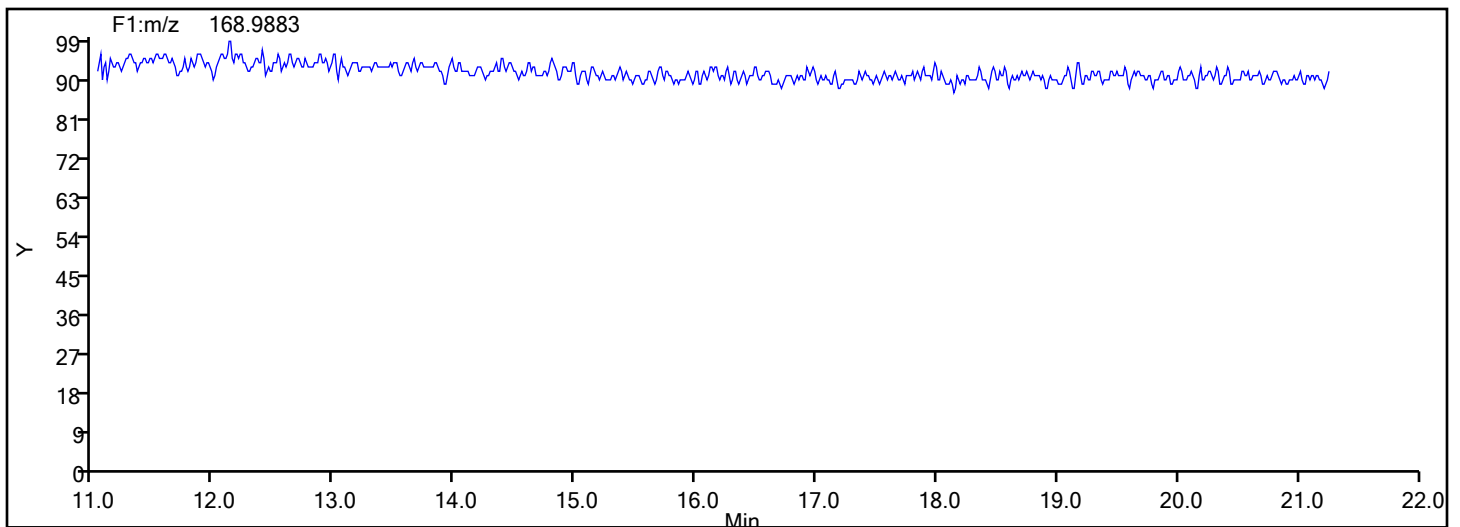
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

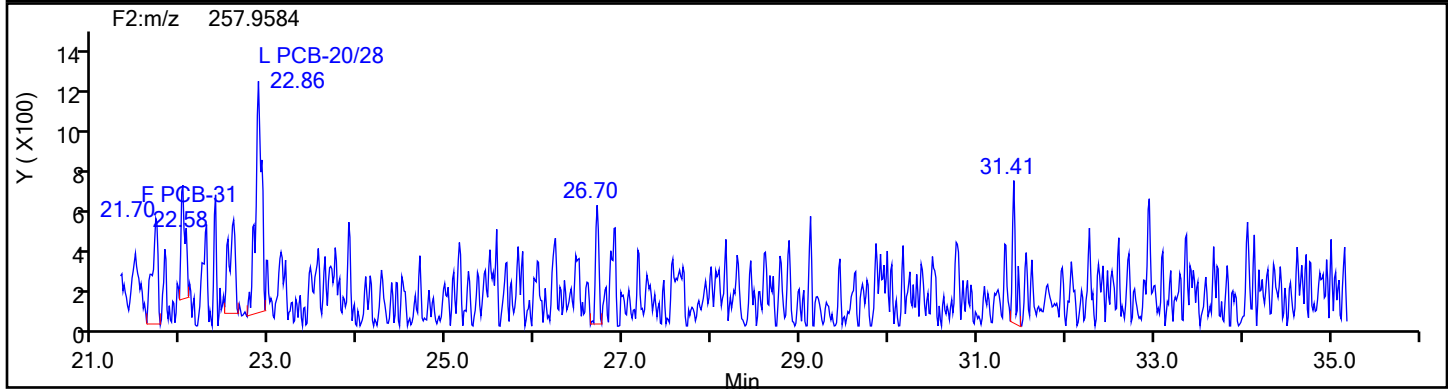
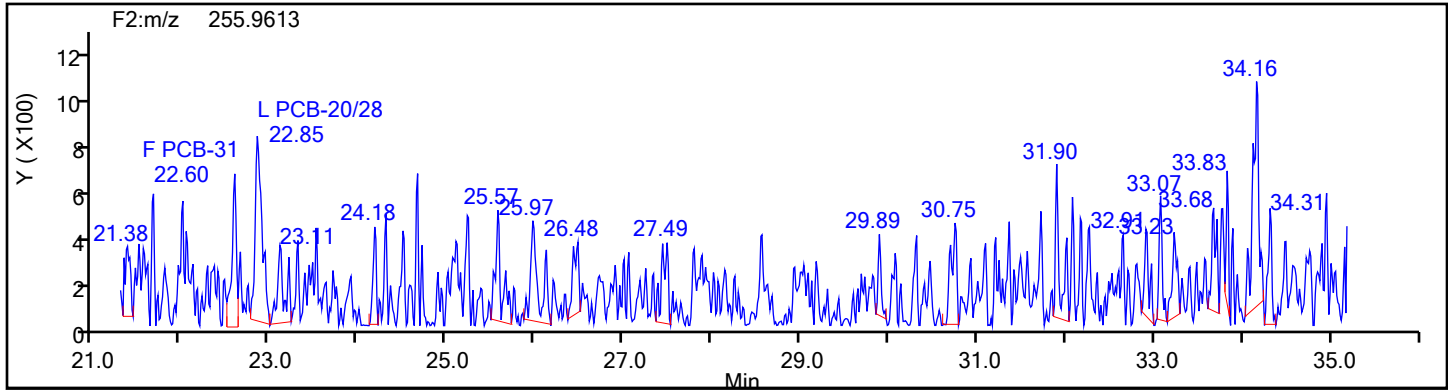
Worklist#: 88747

Sample Line#: 8

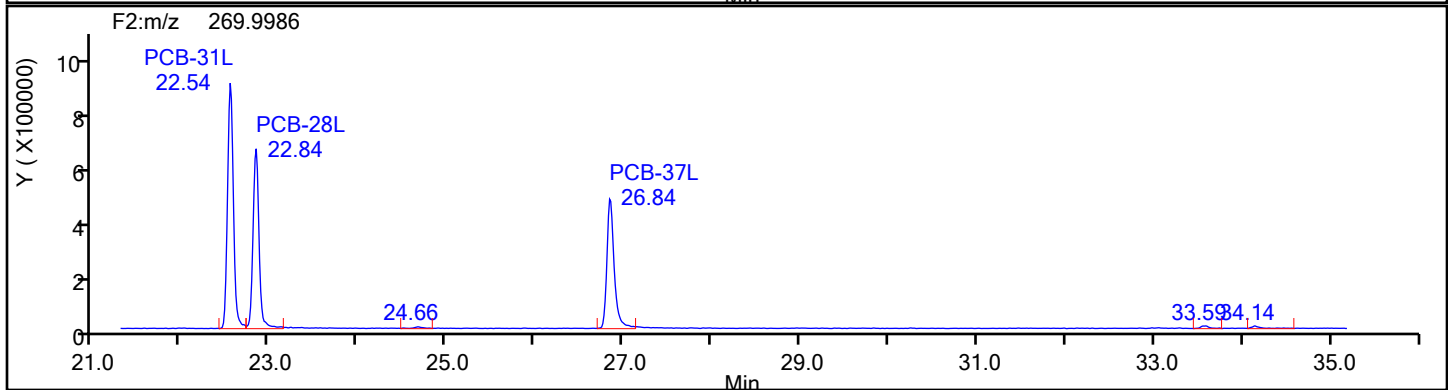
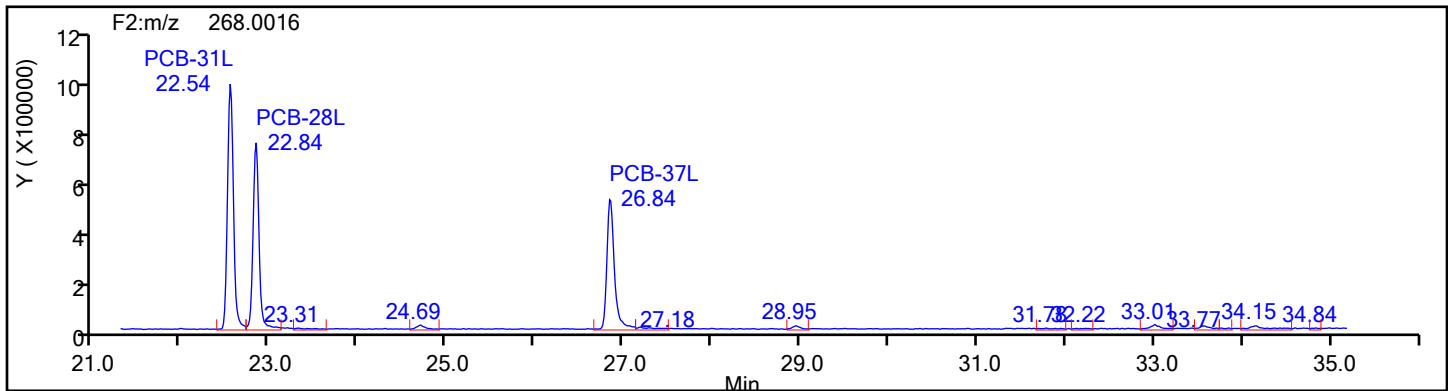
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

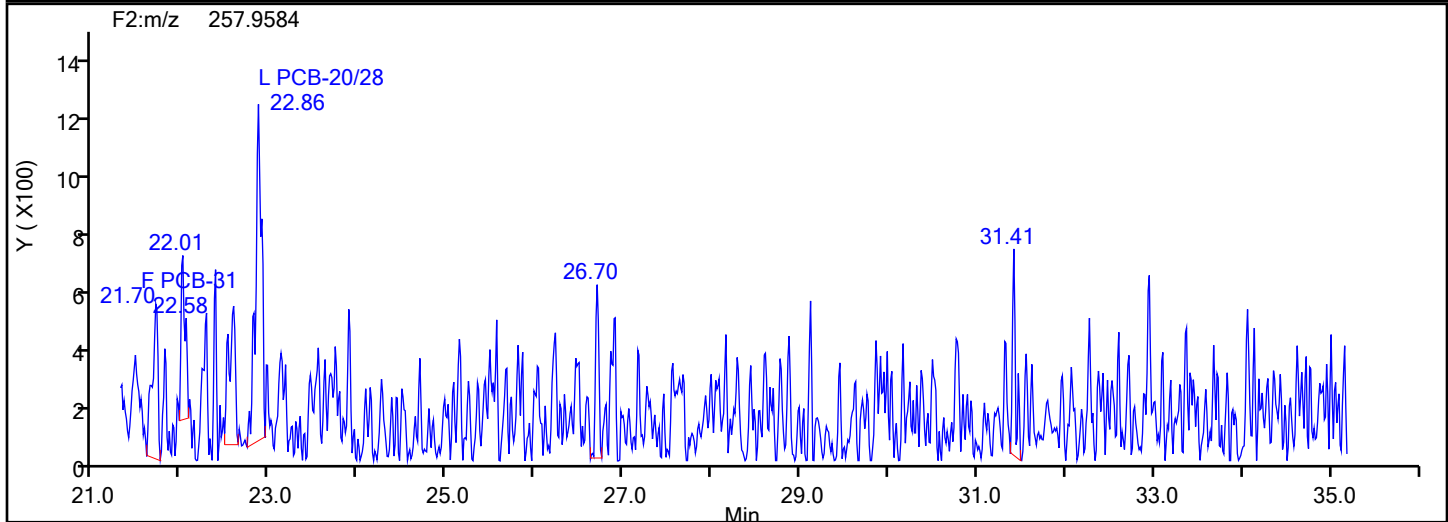
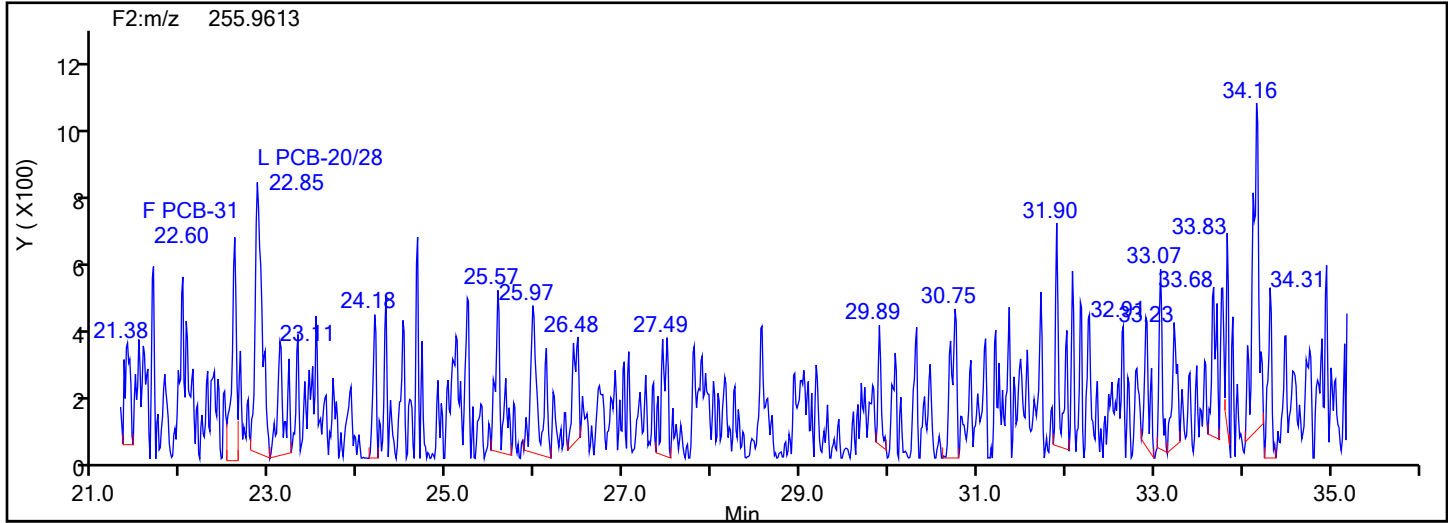
Worklist#: 88747

Sample Line#: 8

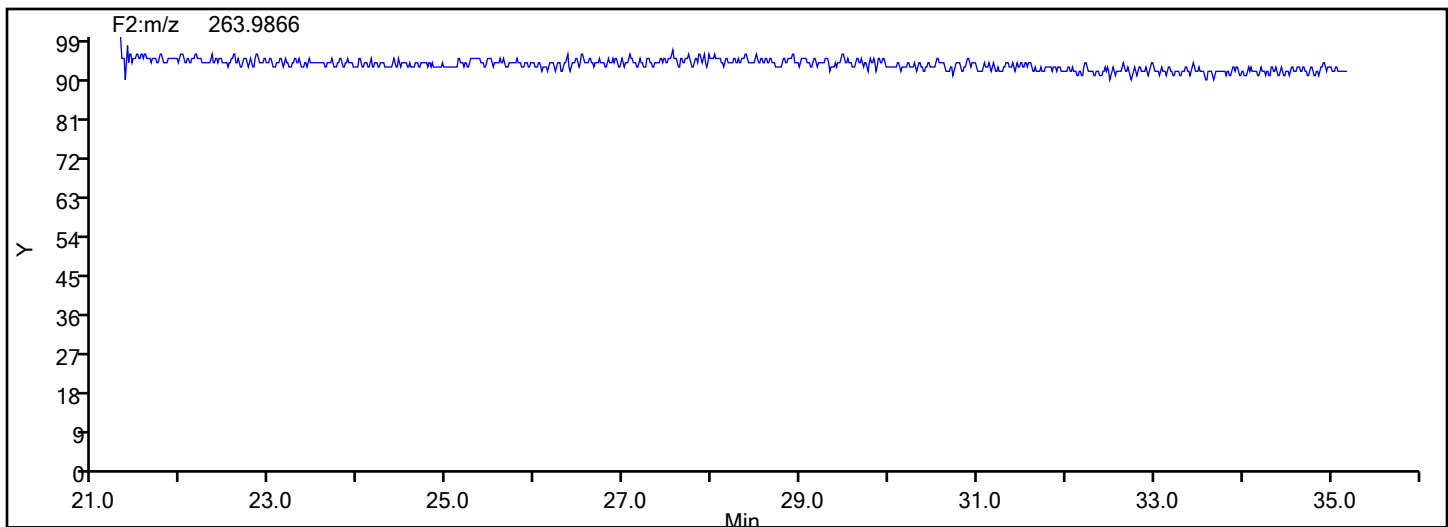
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

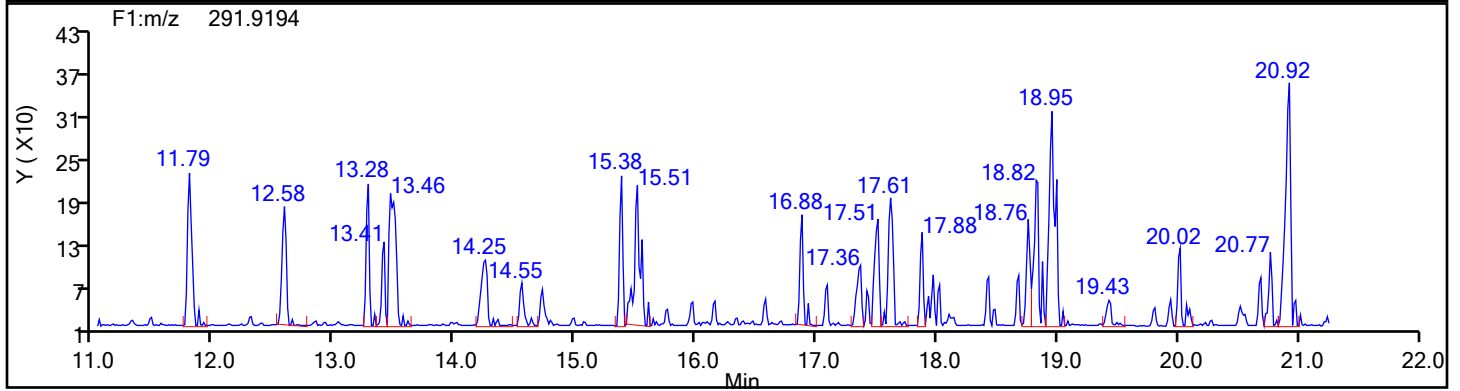
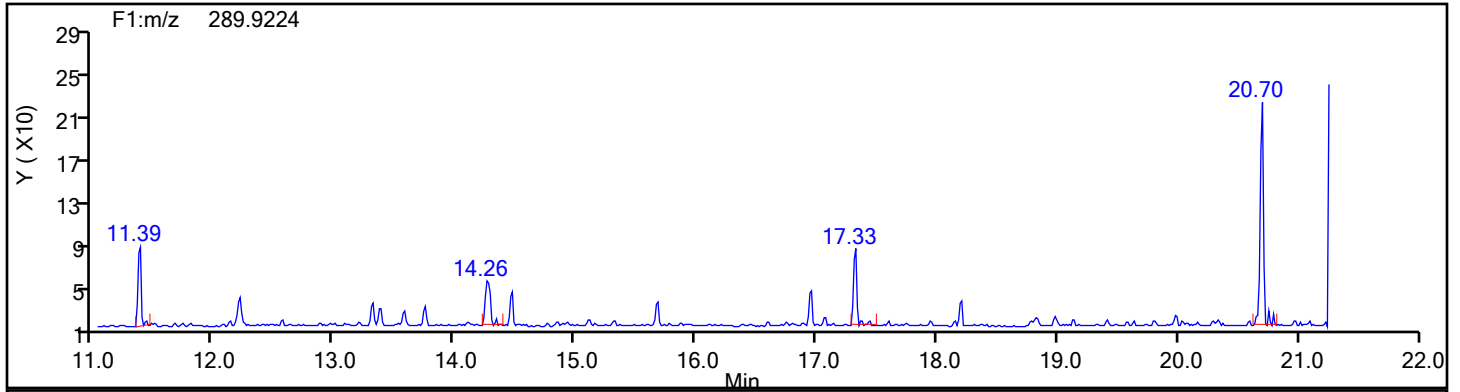
Worklist#: 88747

Sample Line#: 8

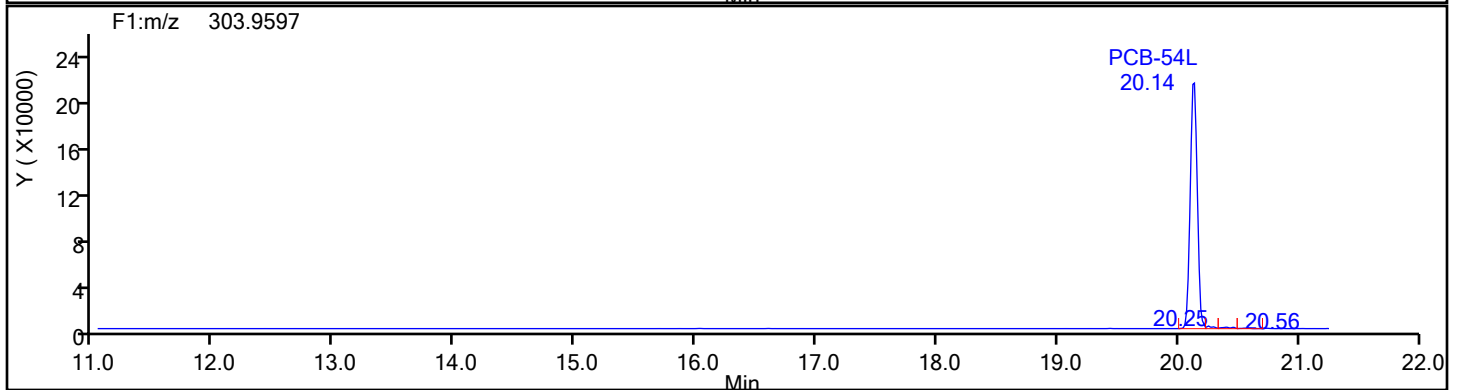
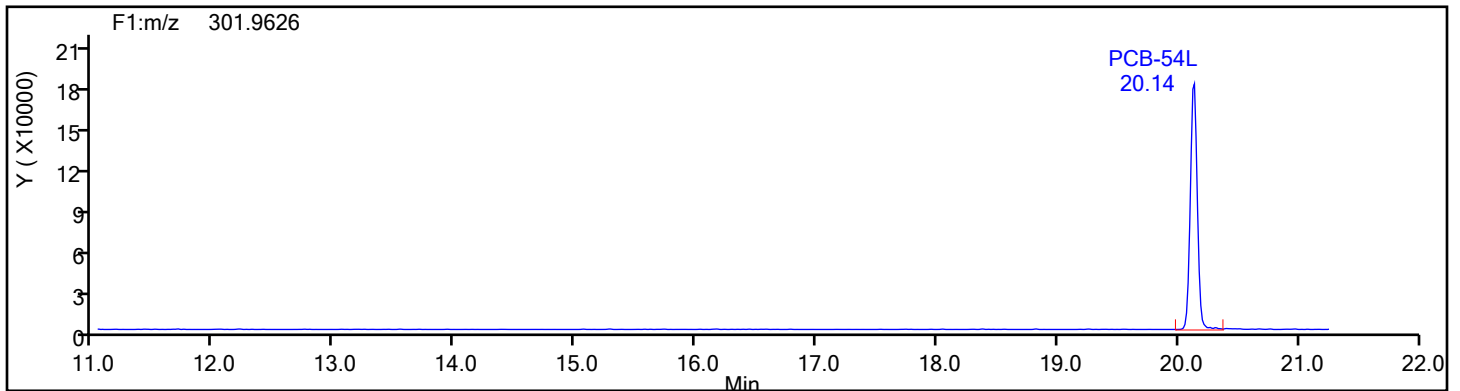
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

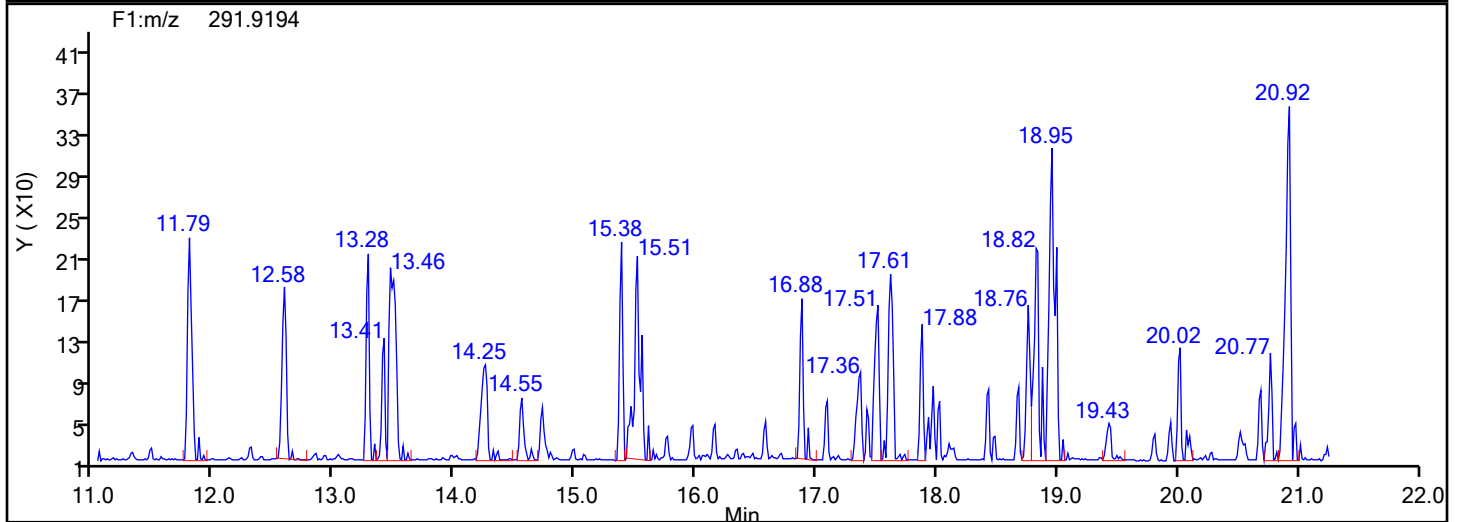
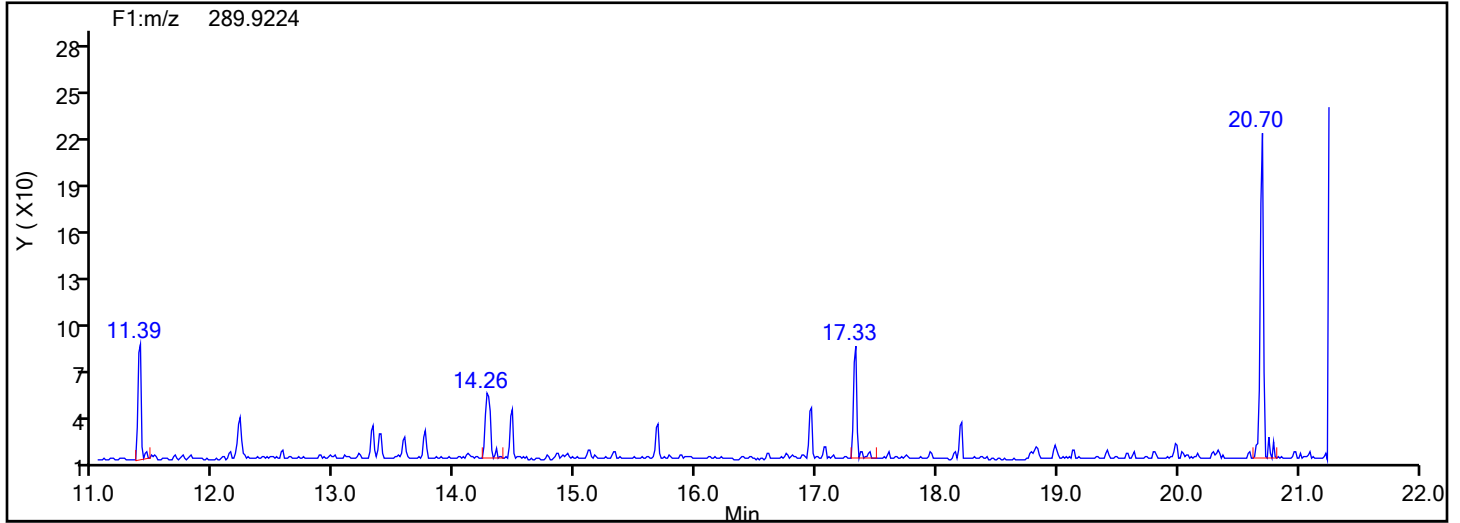
Worklist#: 88747

Sample Line#: 8

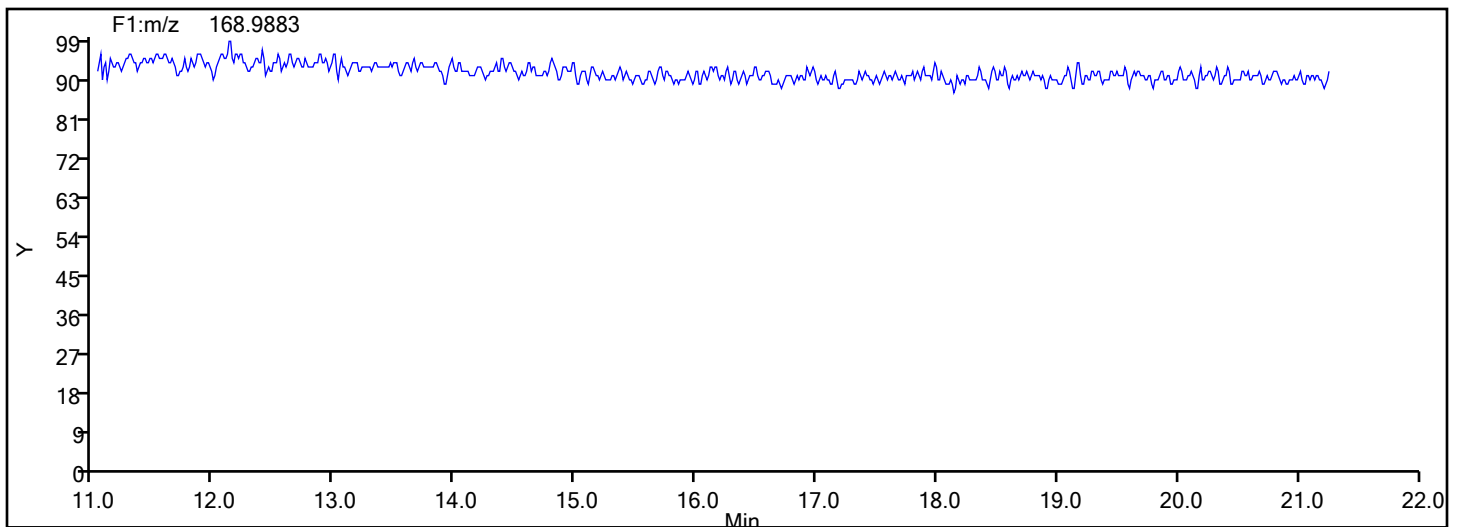
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Instrument ID: D2D

Lims ID: MB 140-88193/21-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

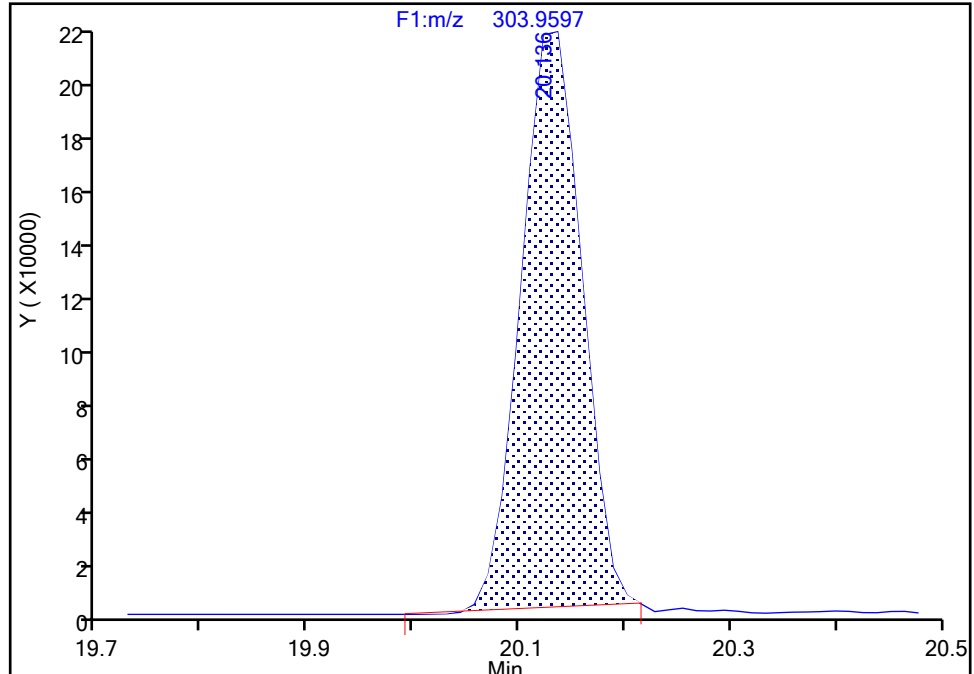
Detector F1(11.07 :21.70)

PCB-54L, CAS: 234432-88-3

Signal: 2

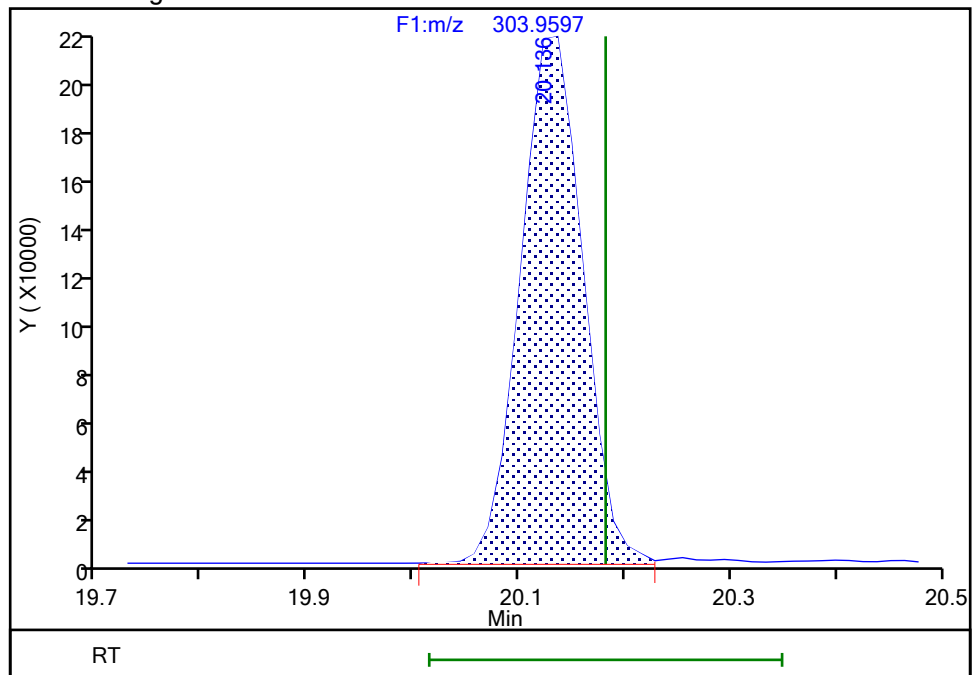
RT: 20.14
Area: 834120
Amount: 79.004154
Amount Units: pg/ul

Processing Integration Results



RT: 20.14
Area: 861697
Amount: 80.403733
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:51:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

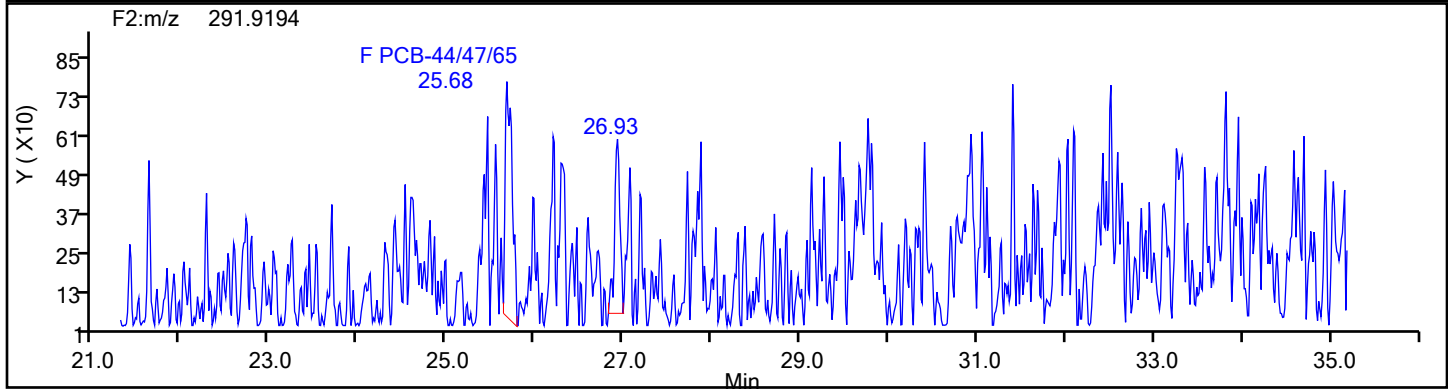
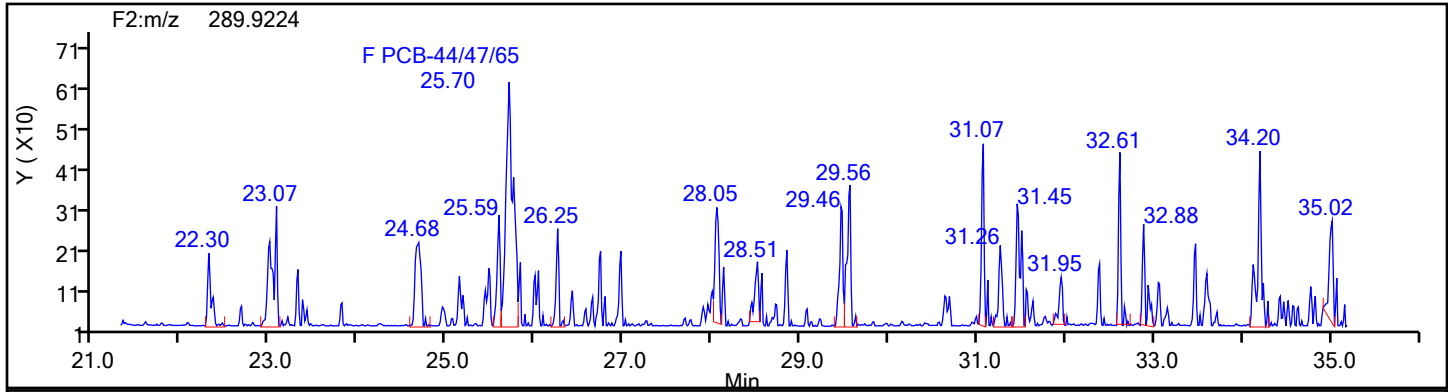
Worklist#: 88747

Sample Line#: 8

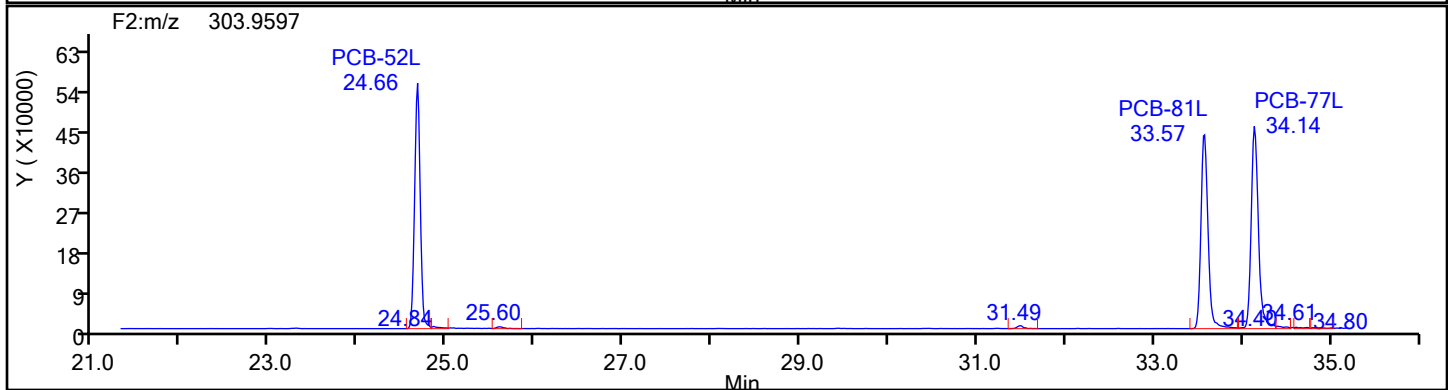
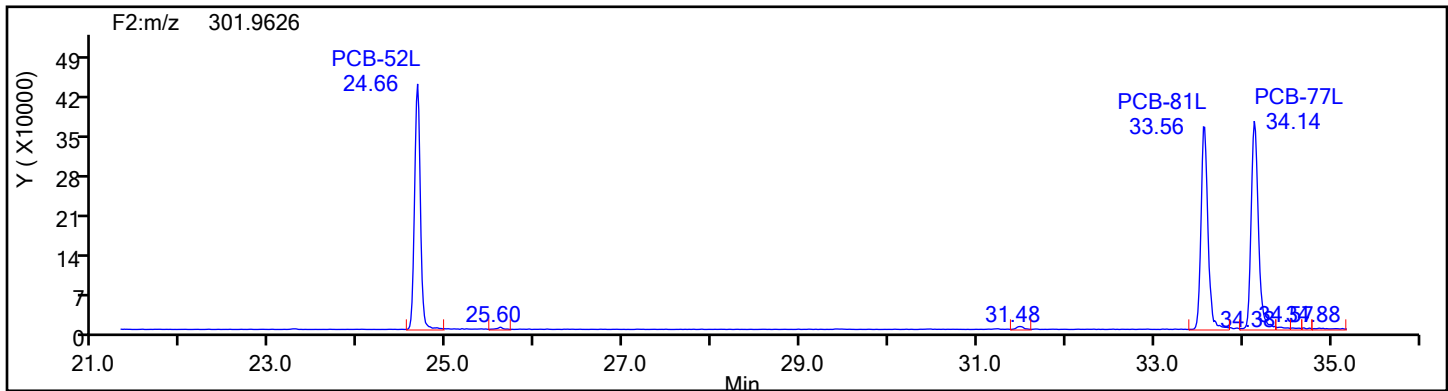
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

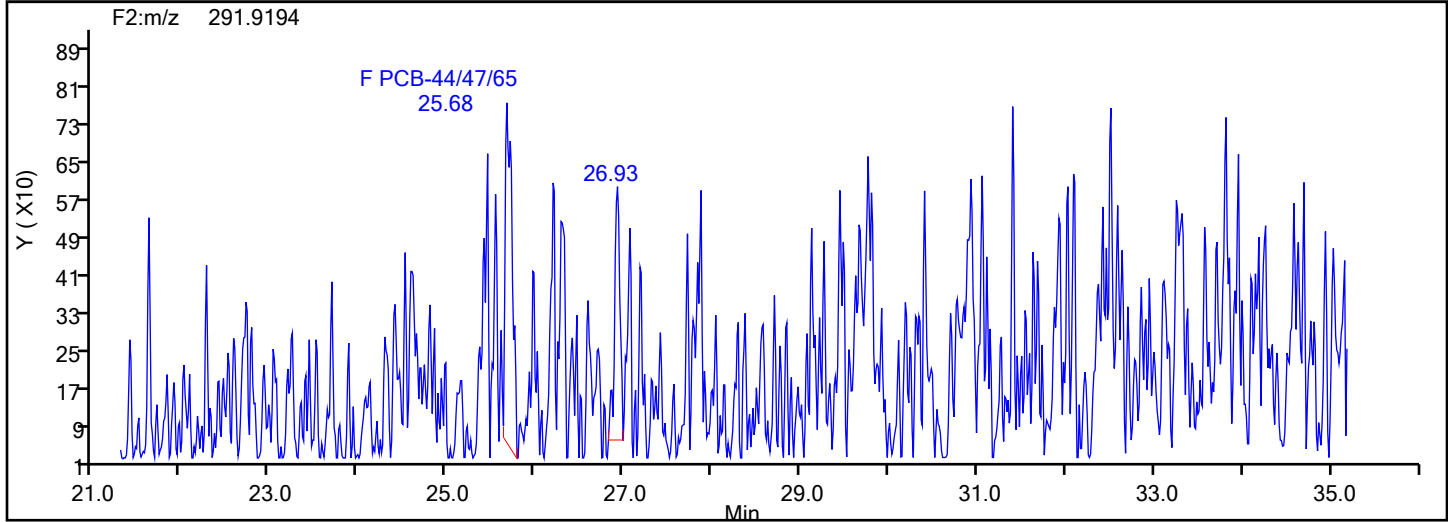
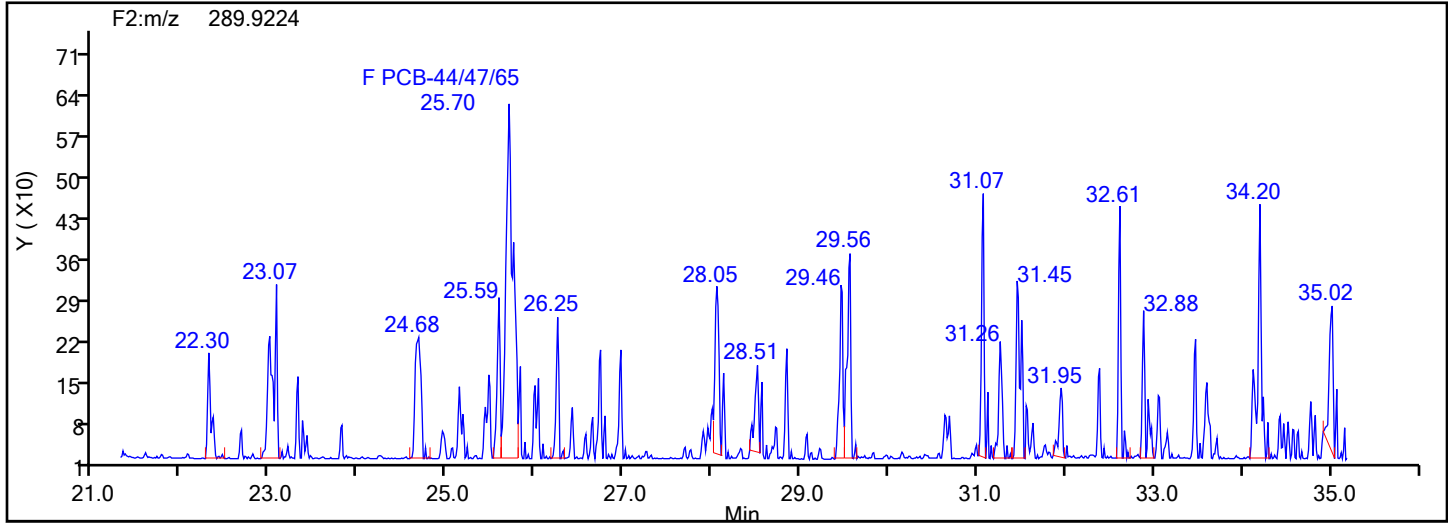
Worklist#: 88747

Sample Line#: 8

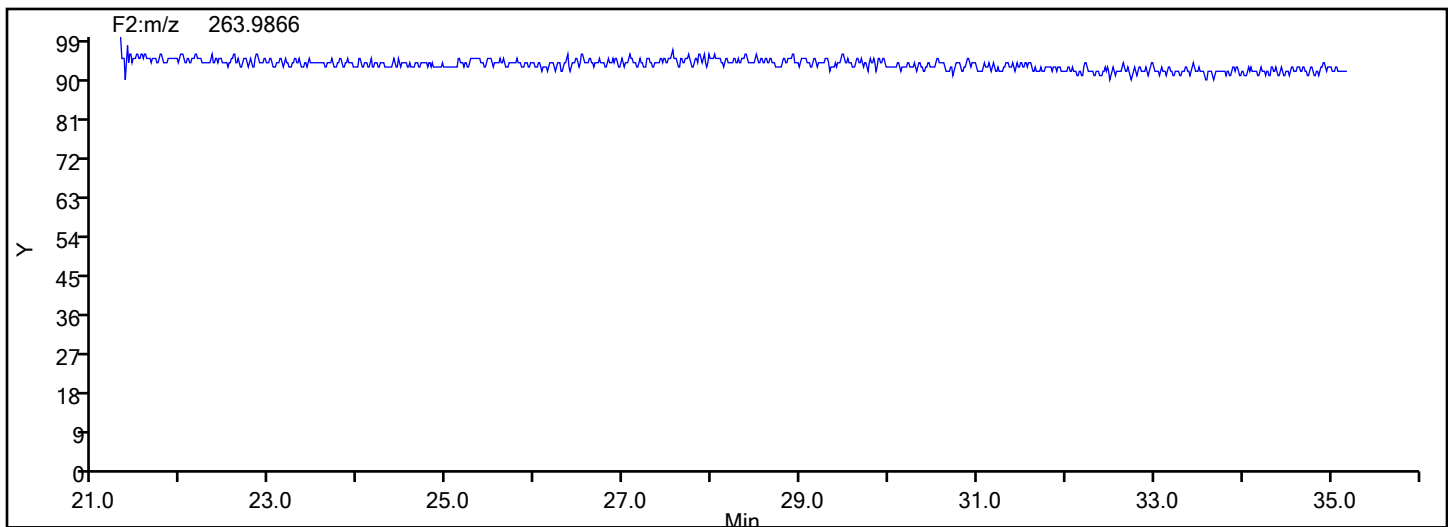
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

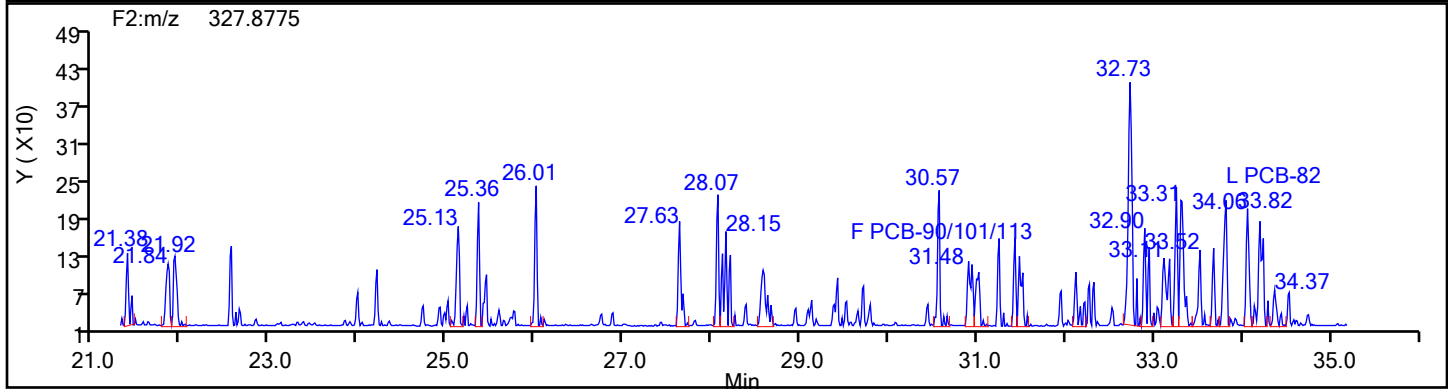
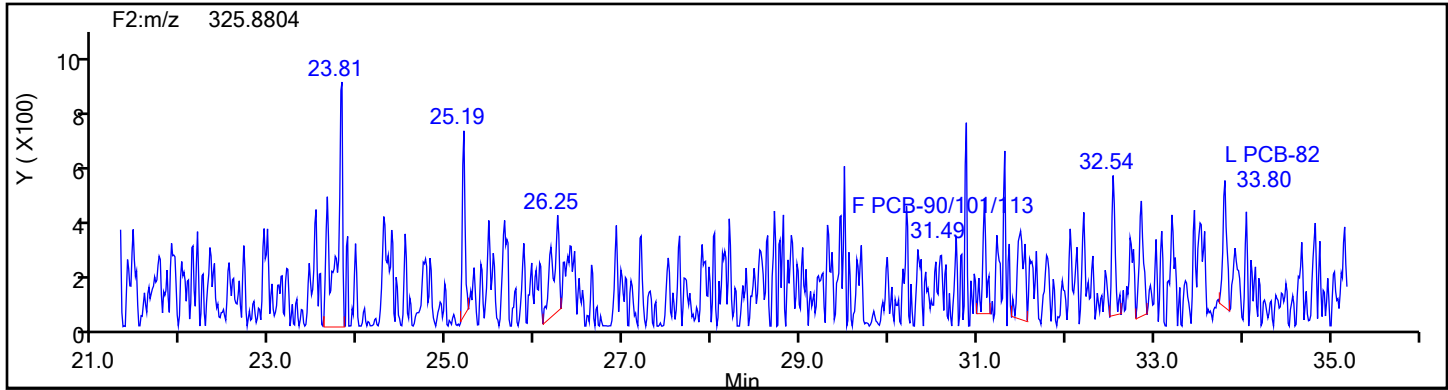
Worklist#: 88747

Sample Line#: 8

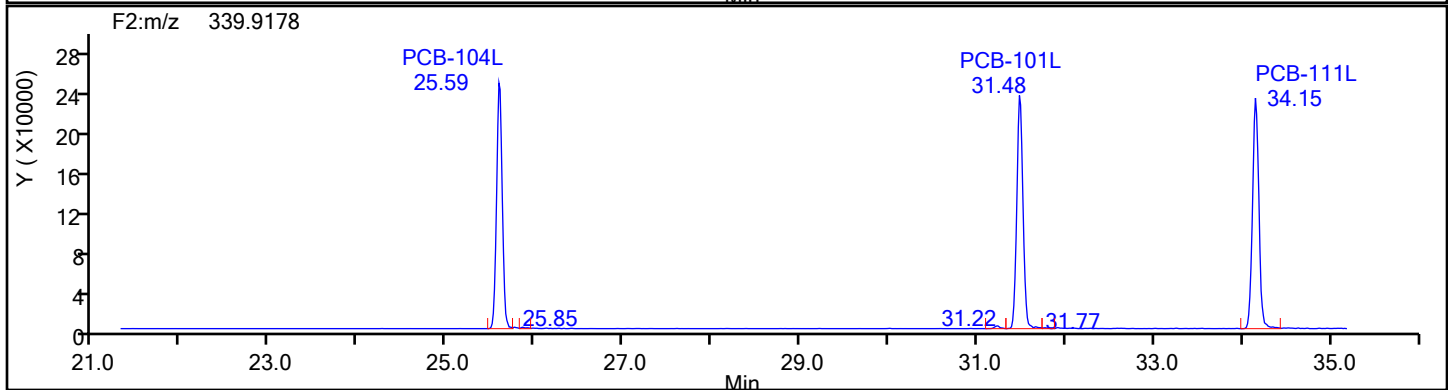
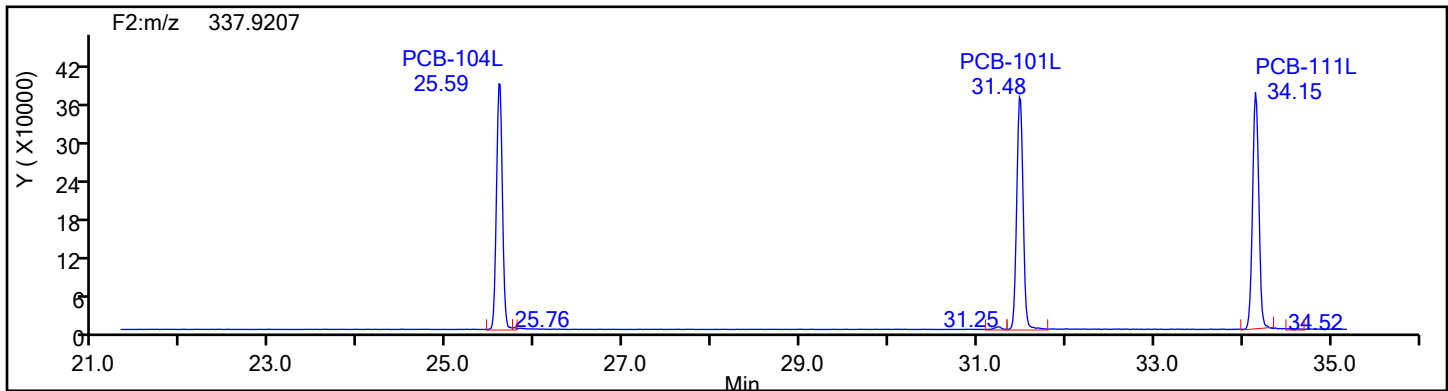
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

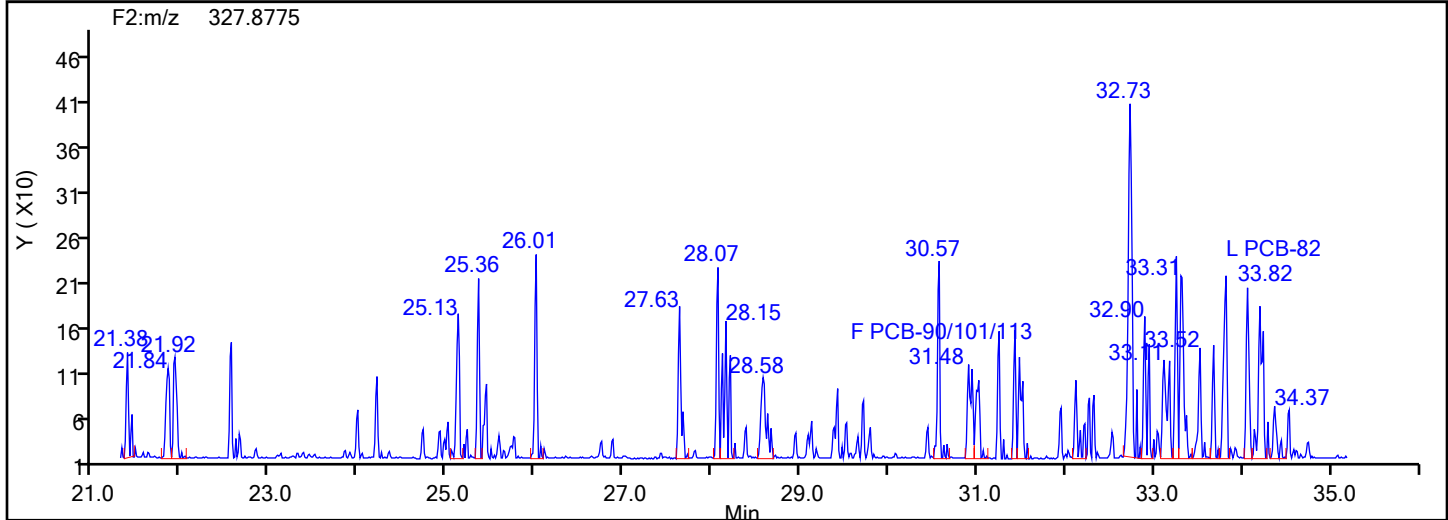
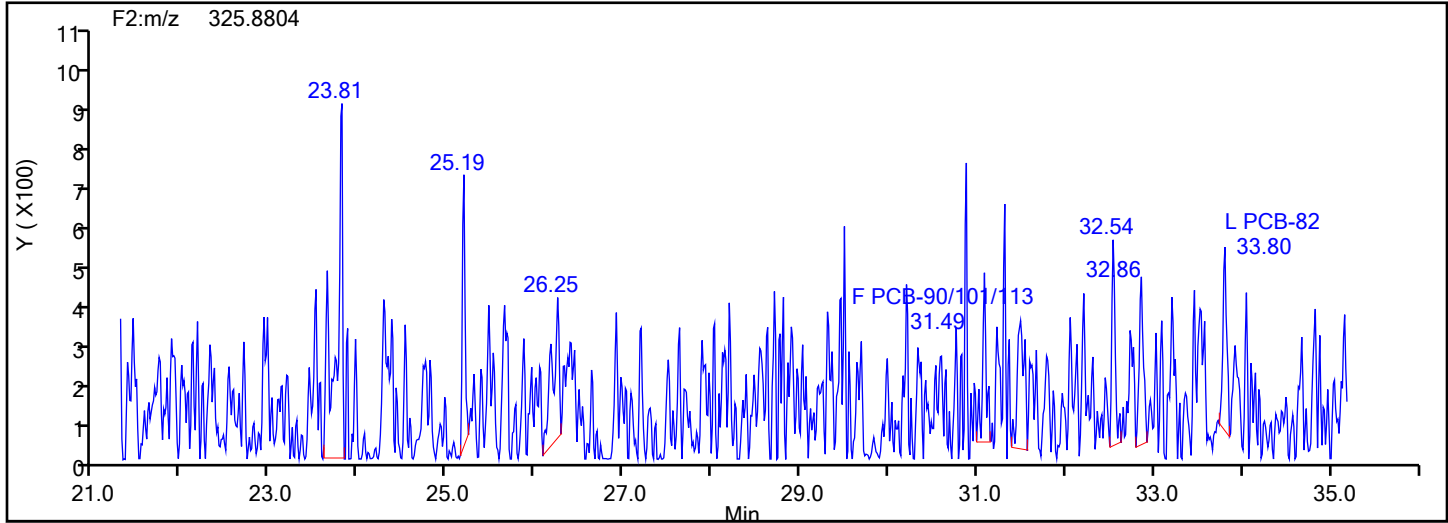
Worklist#: 88747

Sample Line#: 8

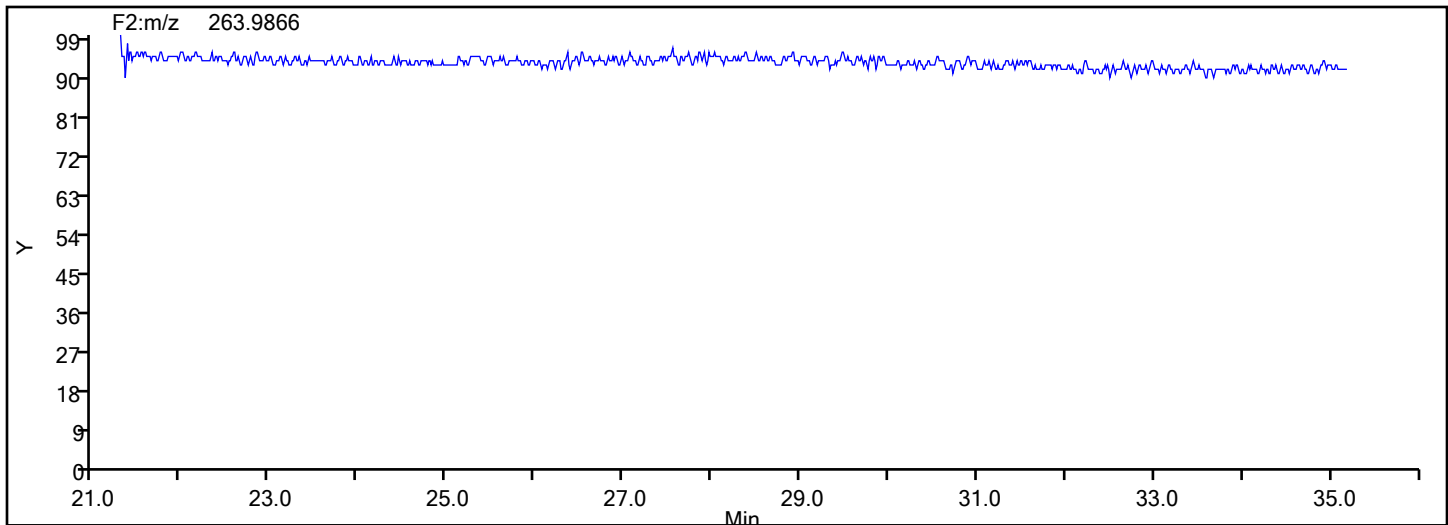
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

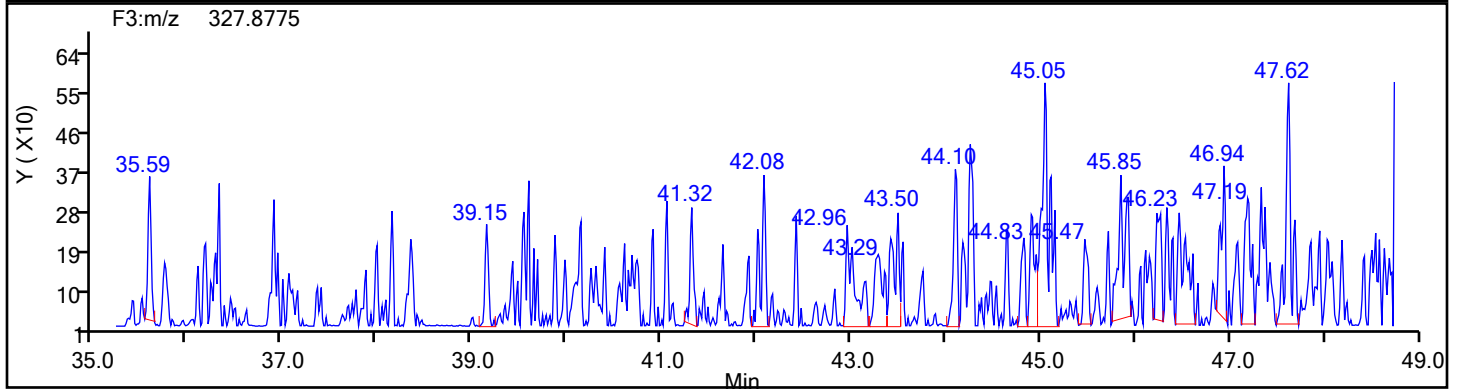
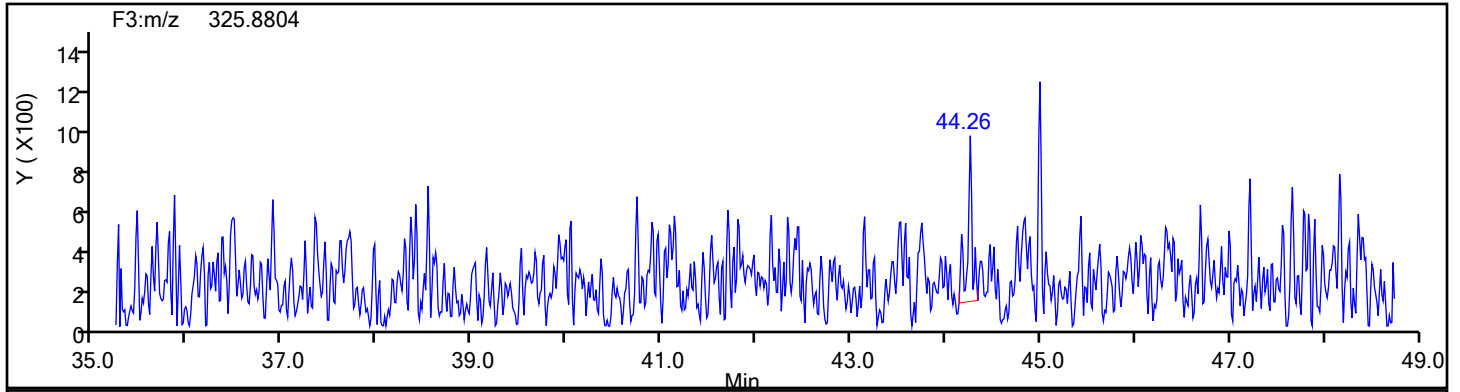
Worklist#: 88747

Sample Line#: 8

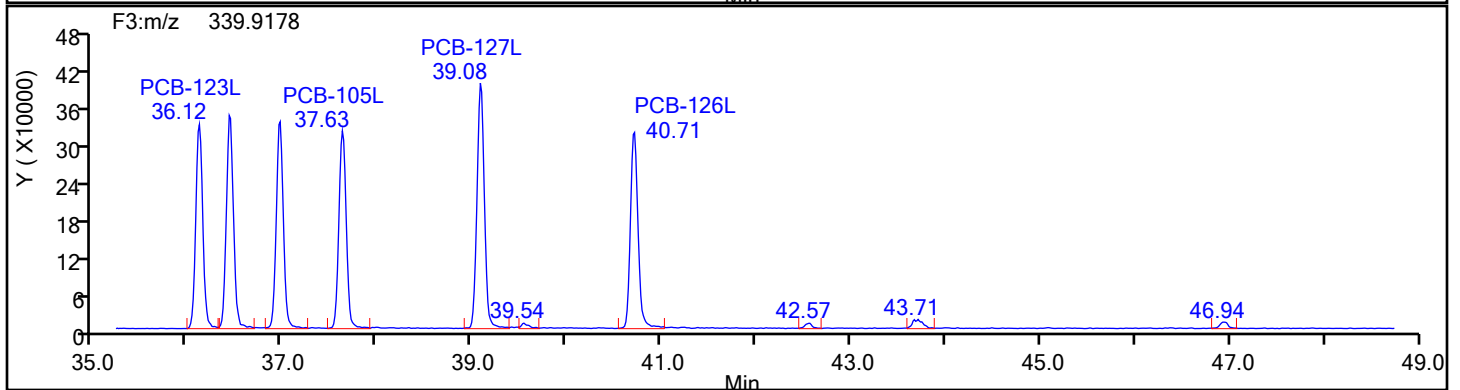
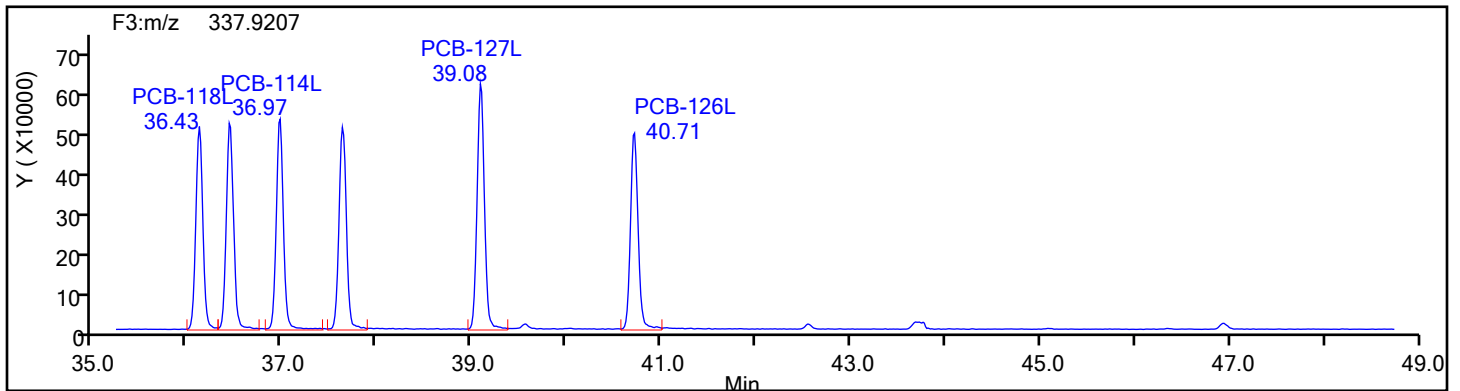
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

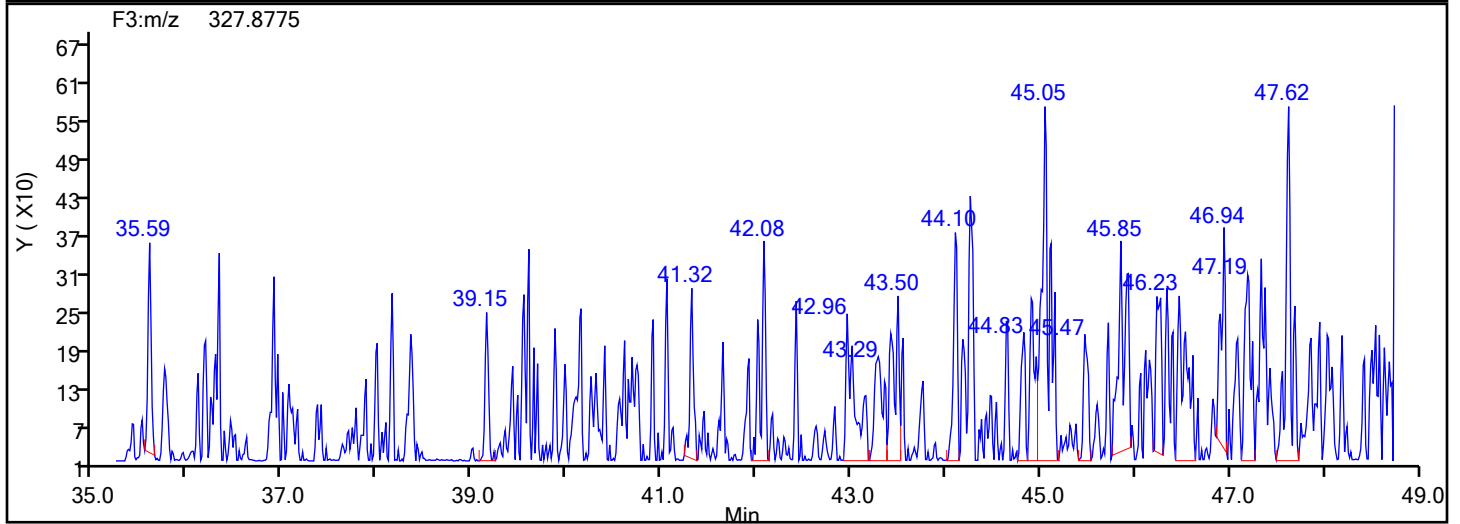
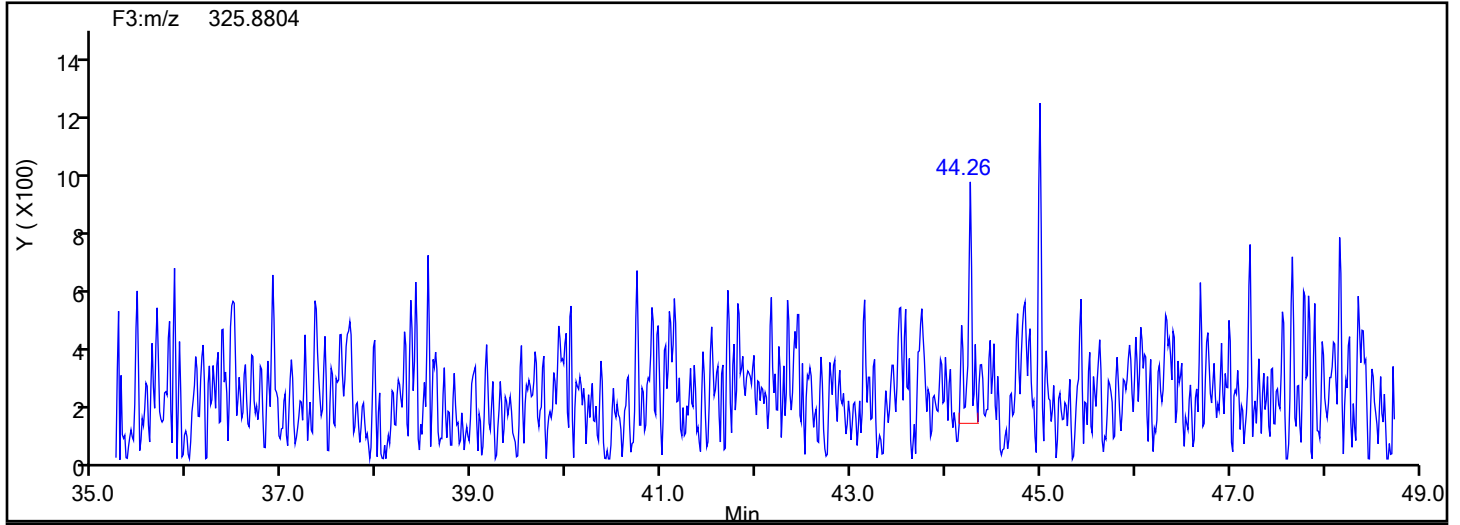


PePCB F3 Standards

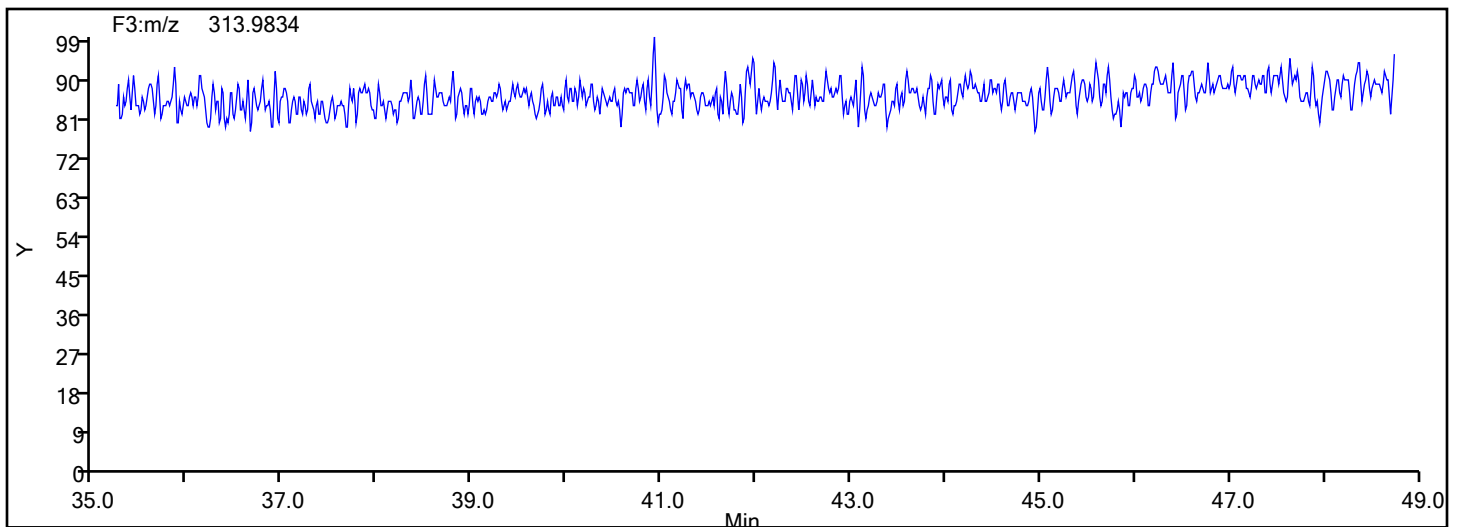


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Injection Date: 15-Jul-2024 16:31:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

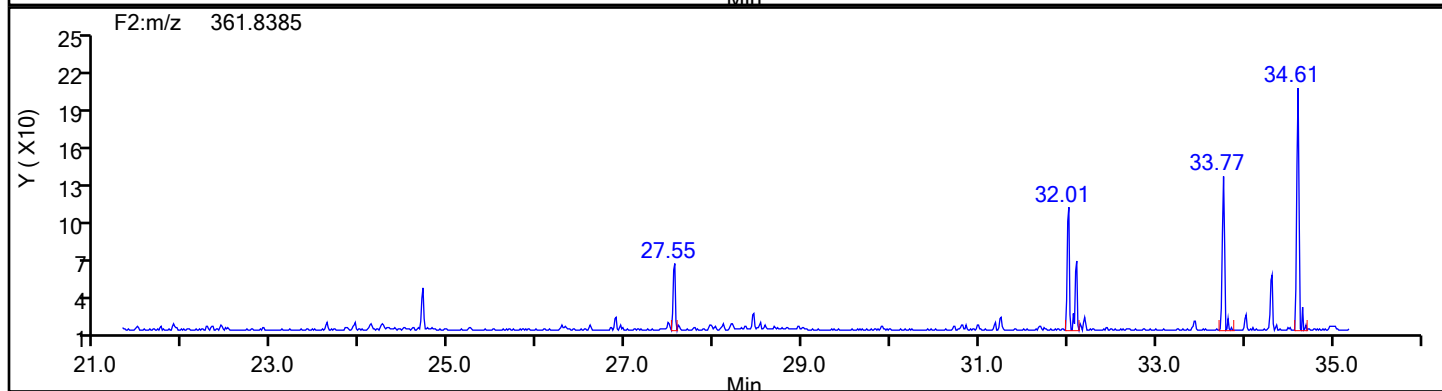
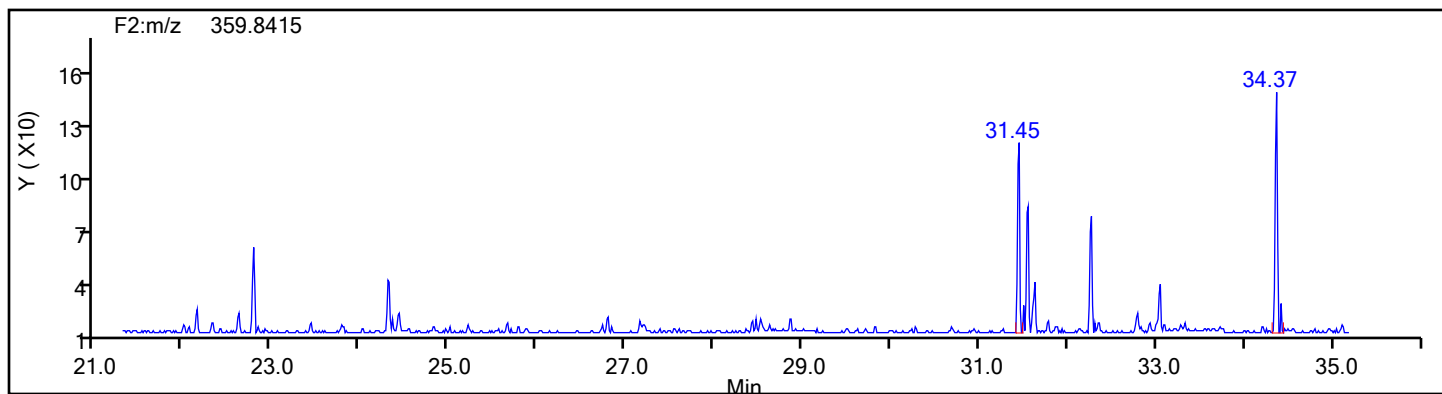
Worklist#: 88747

Sample Line#: 8

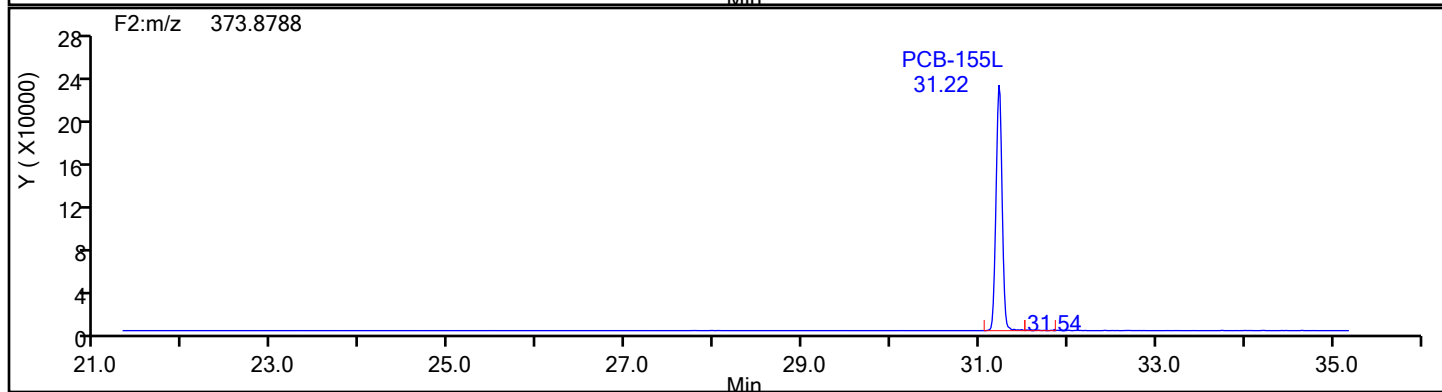
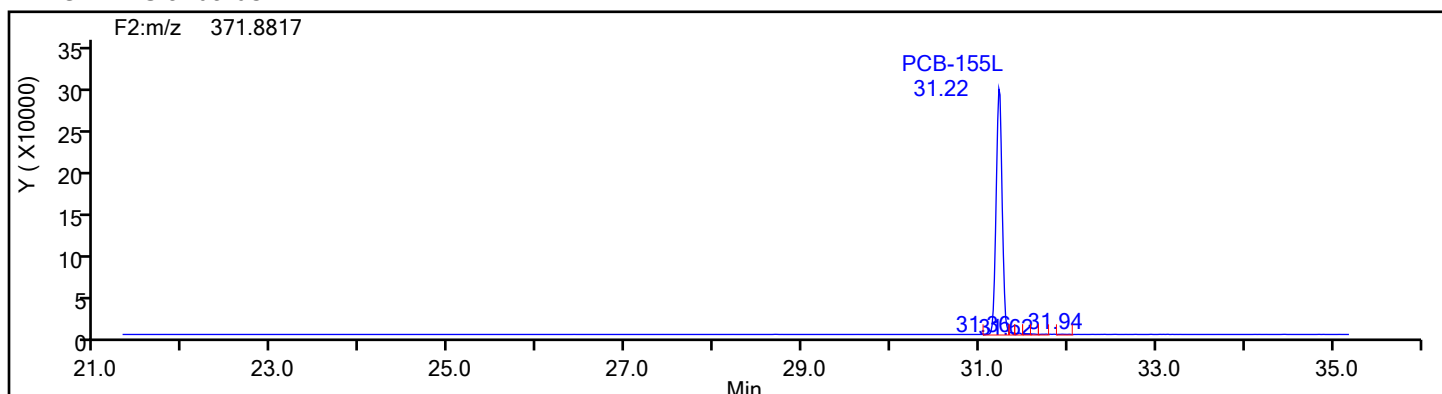
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

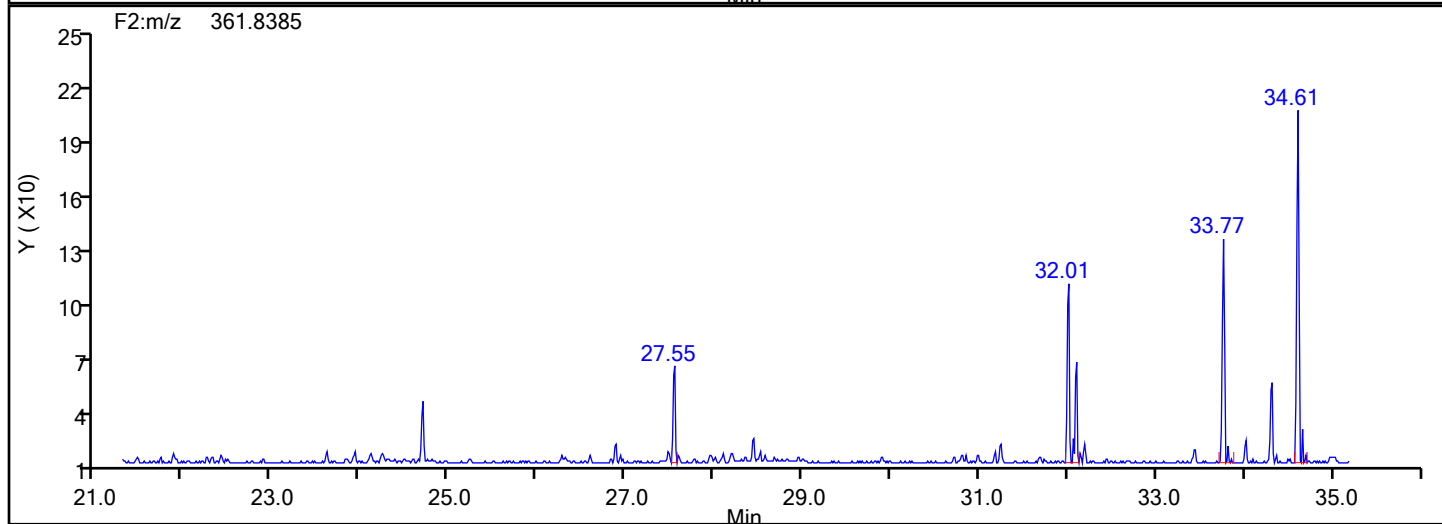
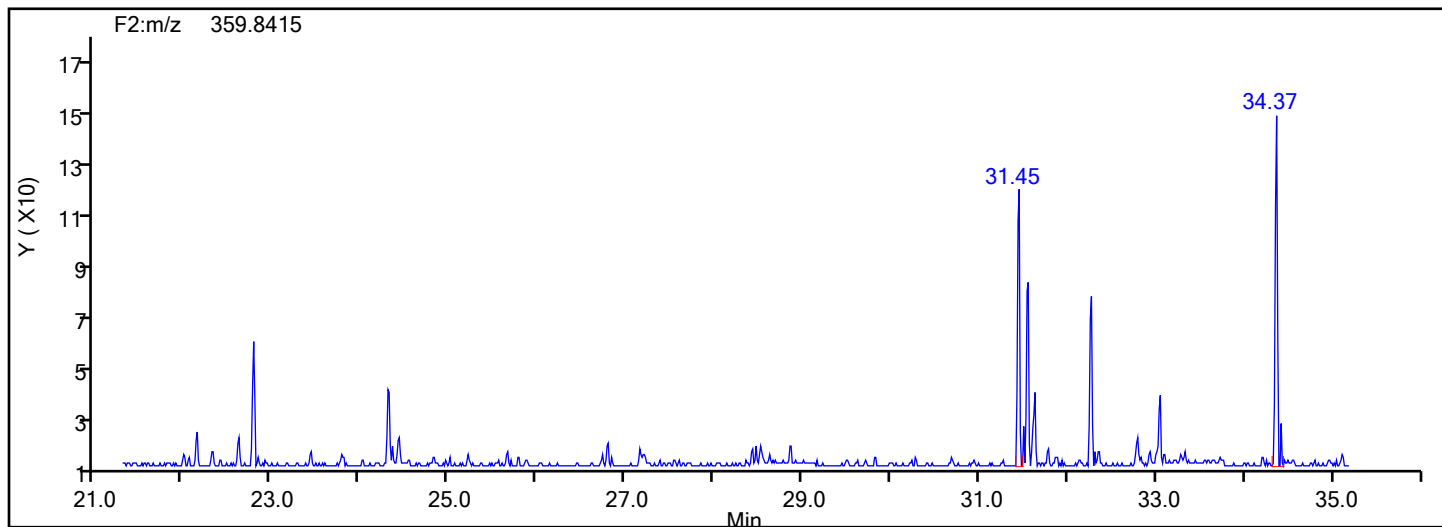
Worklist#: 88747

Sample Line#: 8

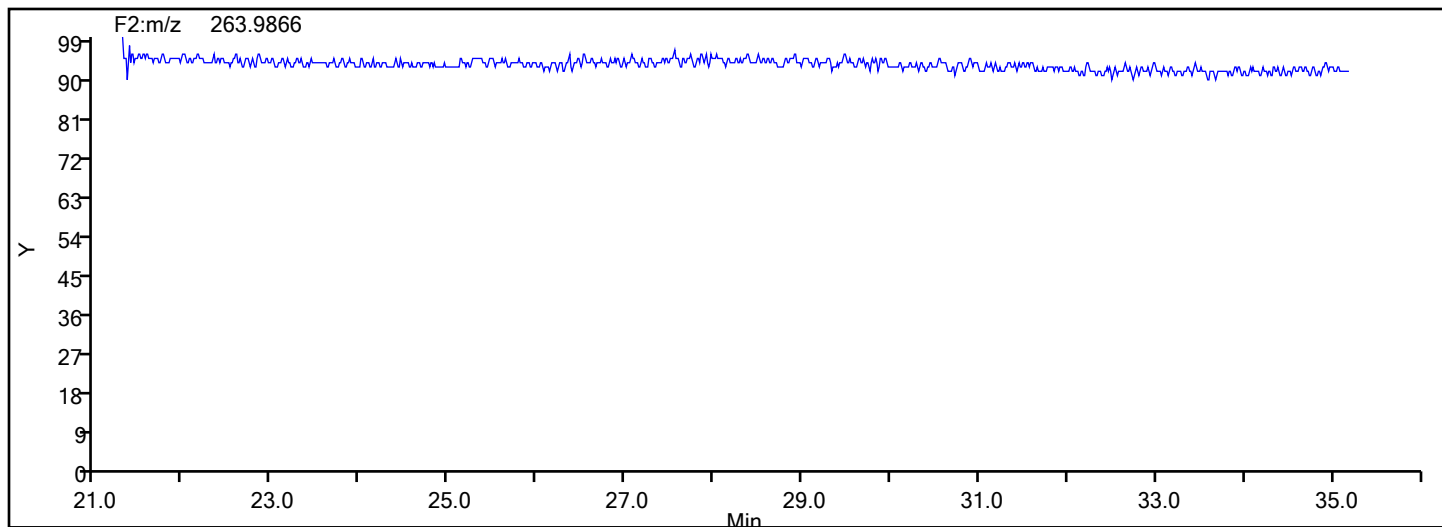
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

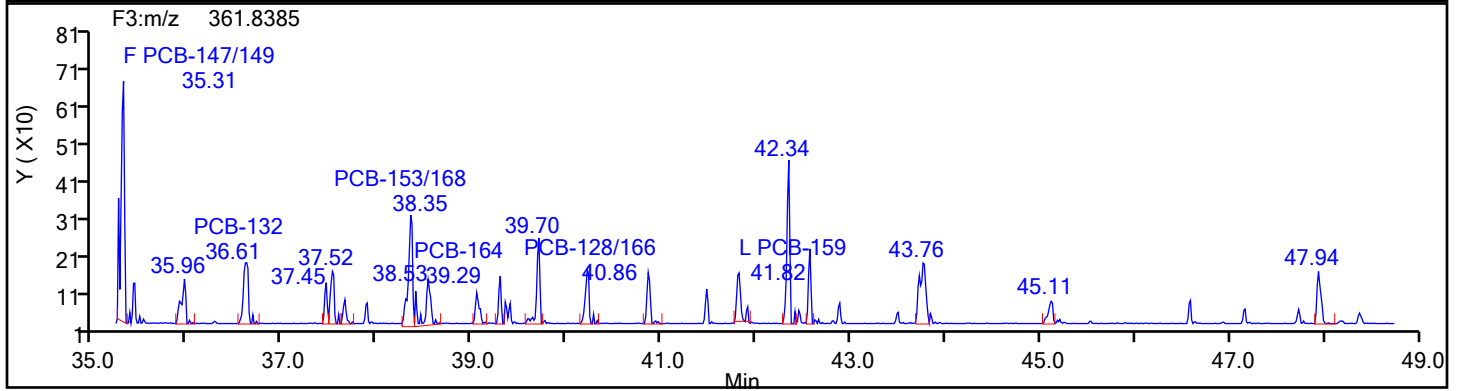
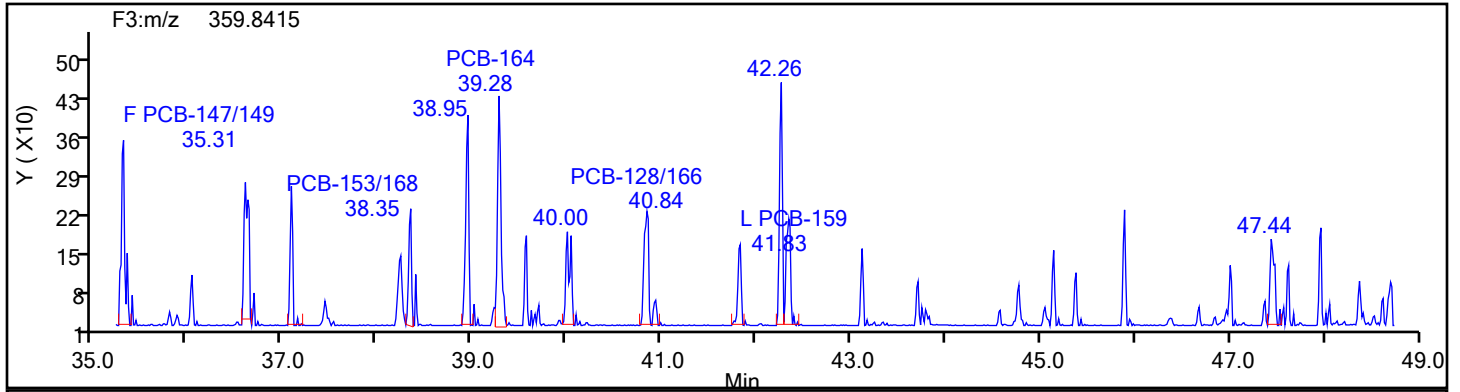
Worklist#: 88747

Sample Line#: 8

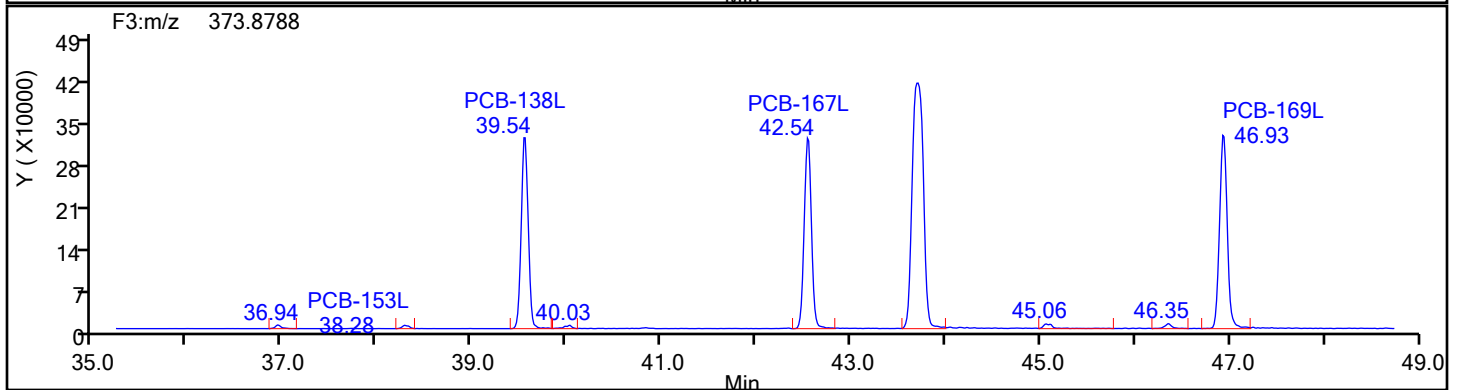
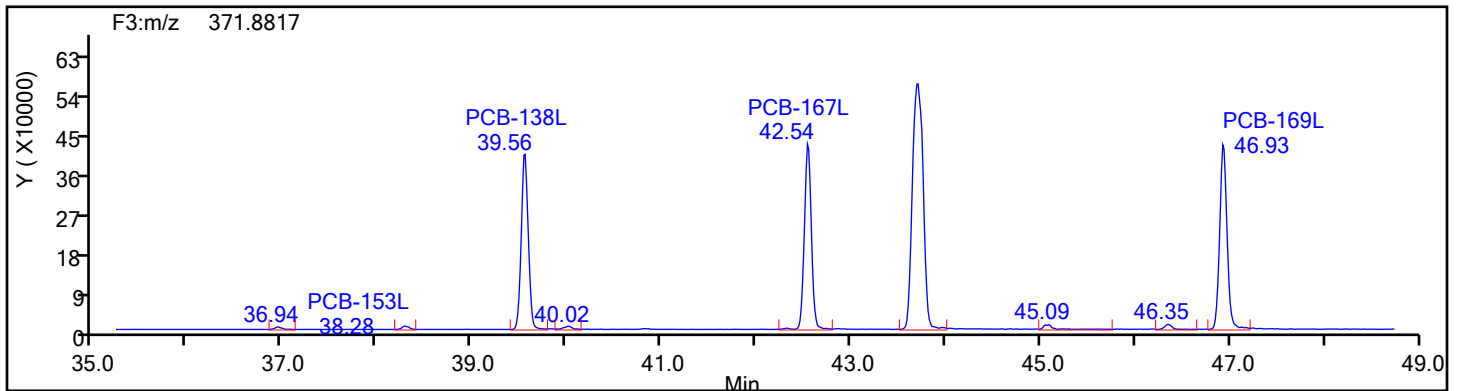
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

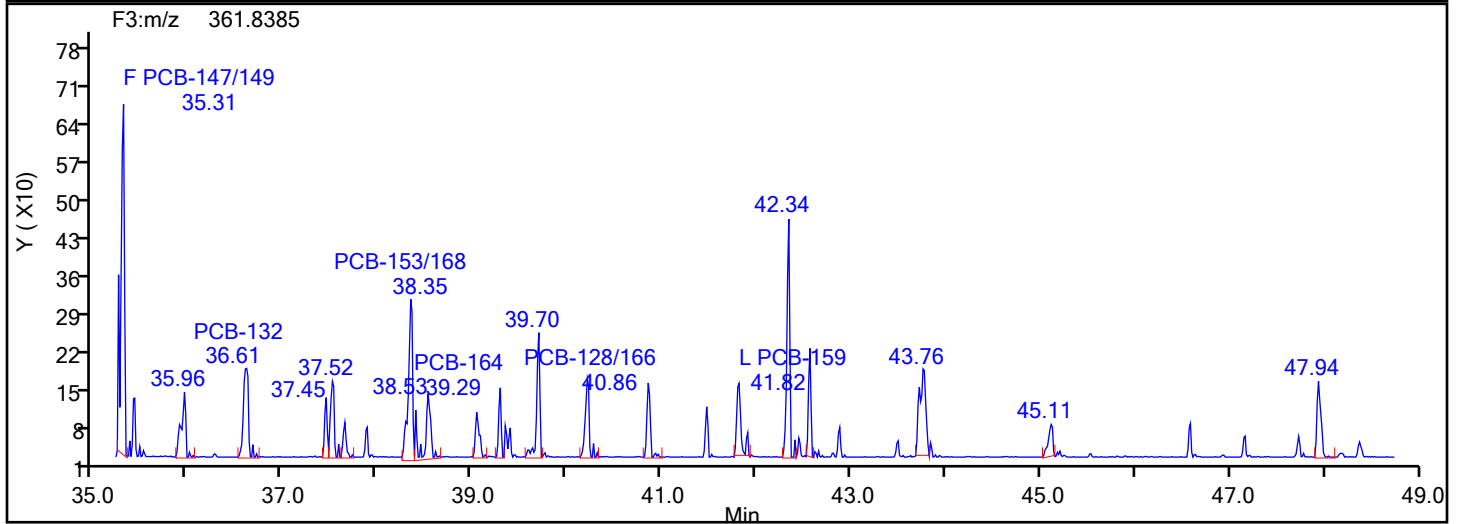
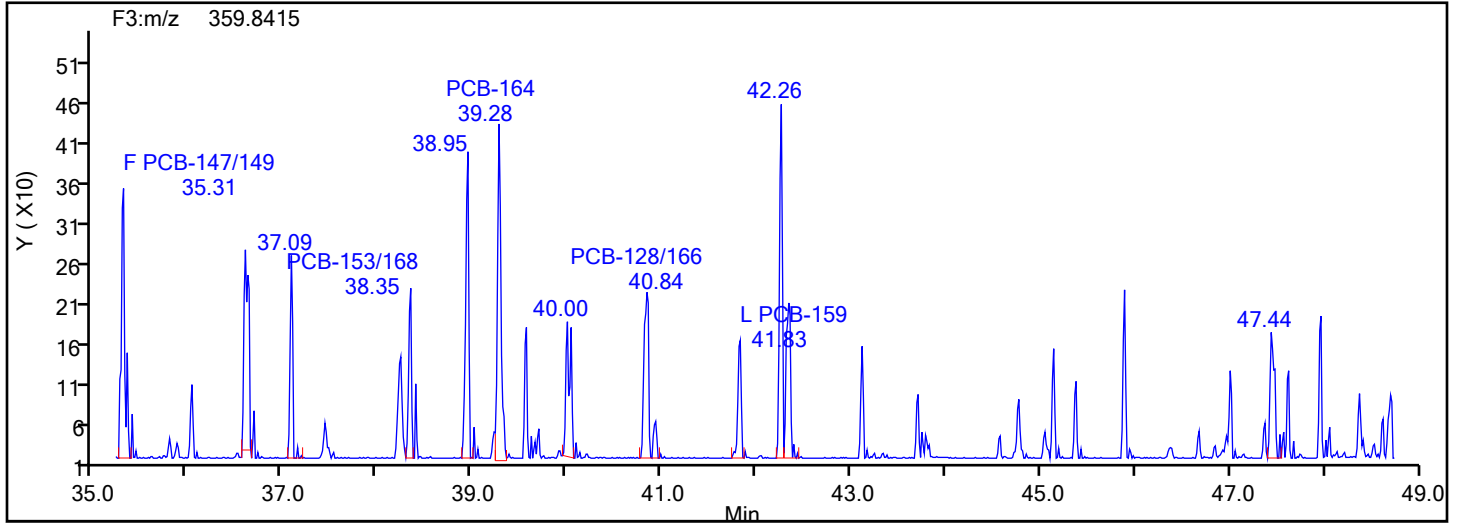
Worklist#: 88747

Sample Line#: 8

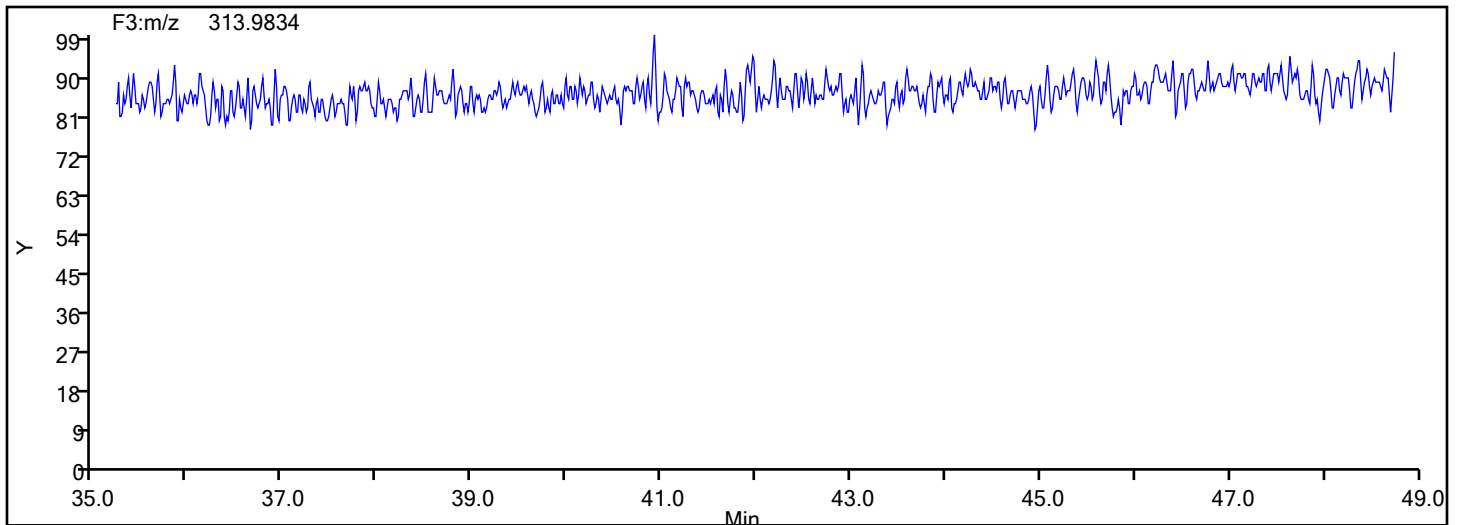
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Instrument ID: D2D

Lims ID: MB 140-88193/21-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

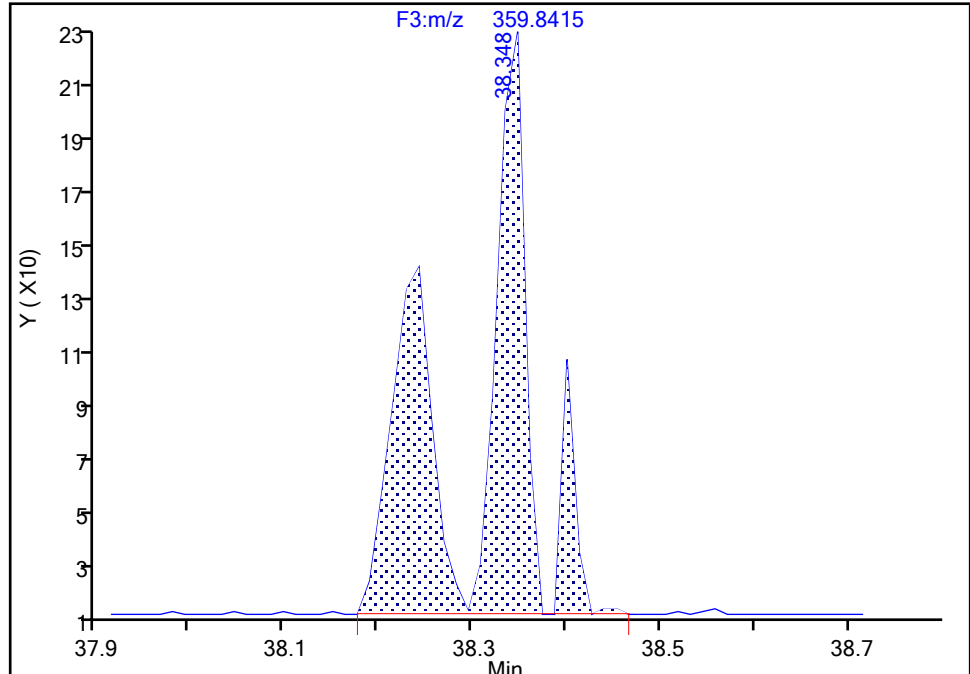
F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 1

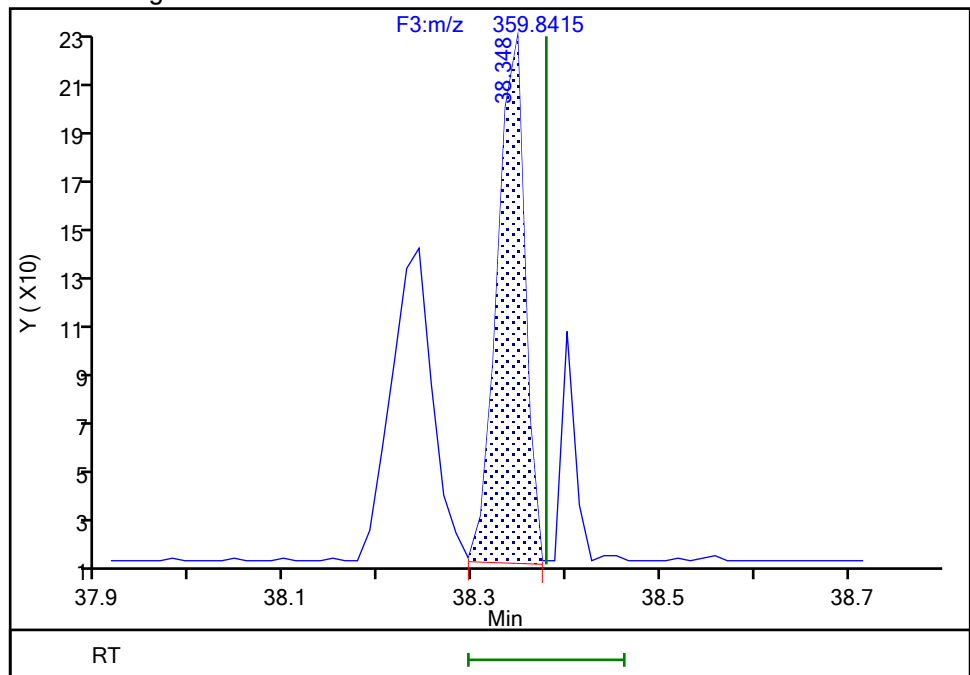
RT: 38.35
Area: 899
Amount: 0.040833
Amount Units: pg/ul

Processing Integration Results



RT: 38.35
Area: 429
Amount: 0.031548
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:53:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

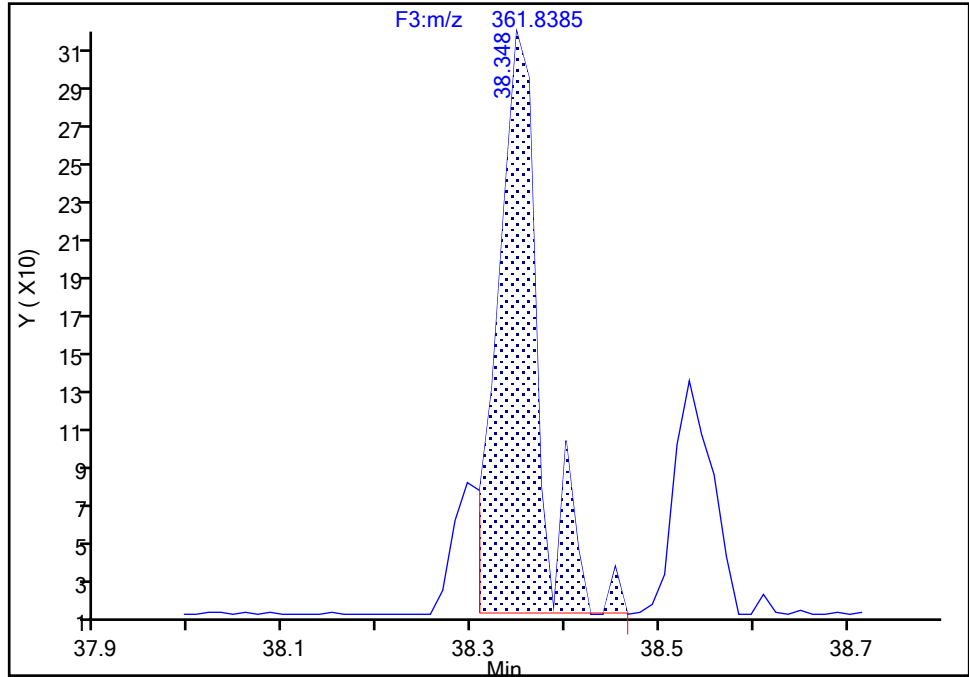
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Injection Date: 15-Jul-2024 16:31:00 Instrument ID: D2D
Lims ID: MB 140-88193/21-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-153/168, CAS: STL01822

Signal: 2

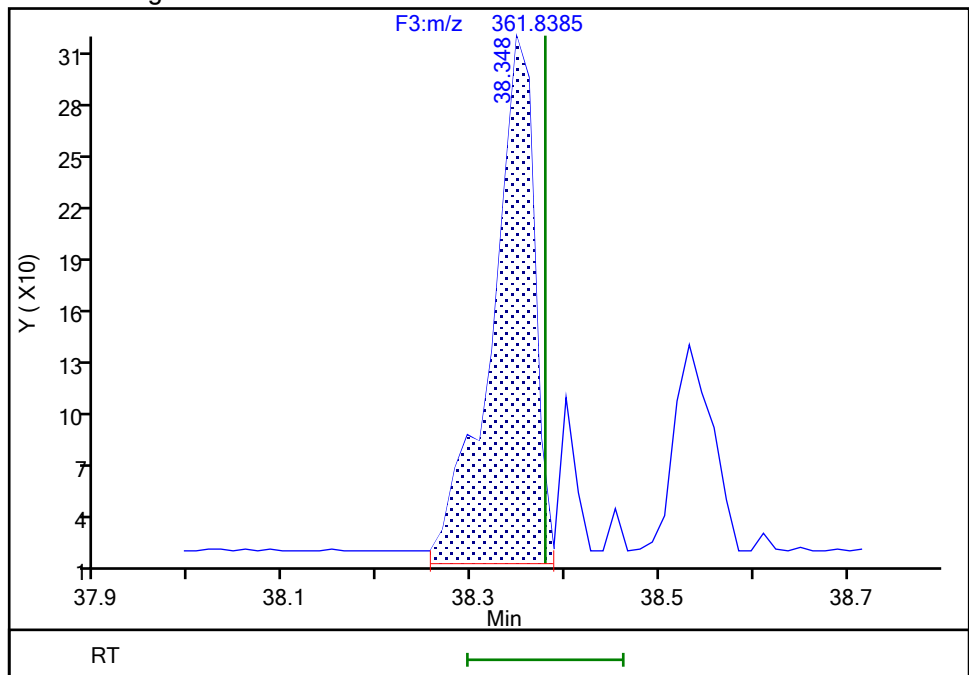
RT: 38.35
Area: 882
Amount: 0.040833
Amount Units: pg/ul

Processing Integration Results



RT: 38.35
Area: 947
Amount: 0.031548
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:53:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2888 of 3050

BASFWC-McIntosh-010889

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

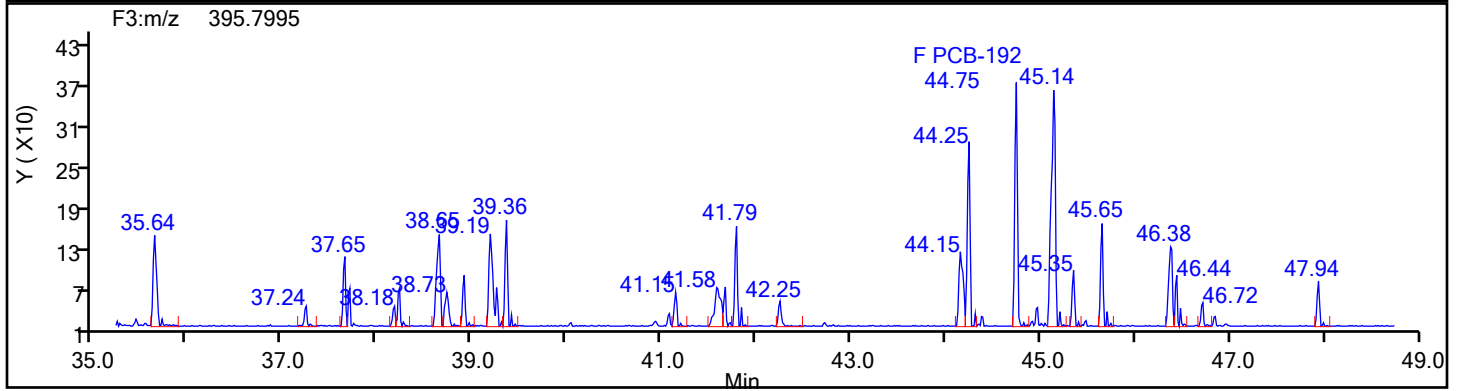
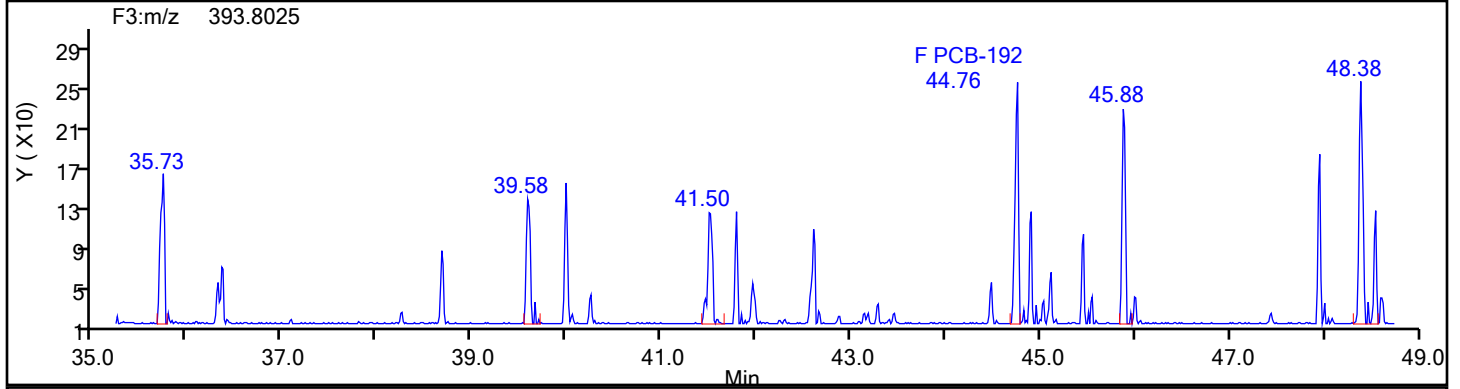
Worklist#: 88747

Sample Line#: 8

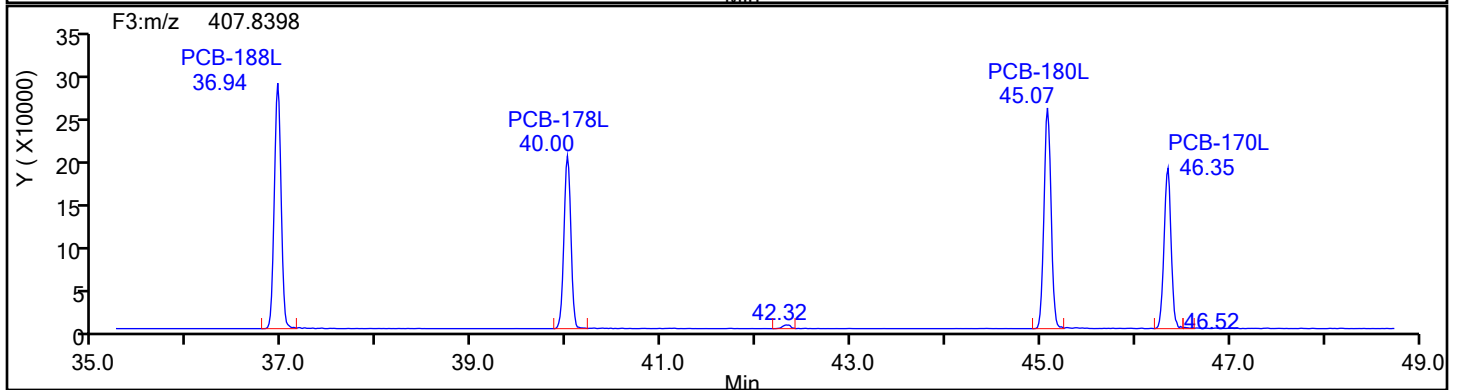
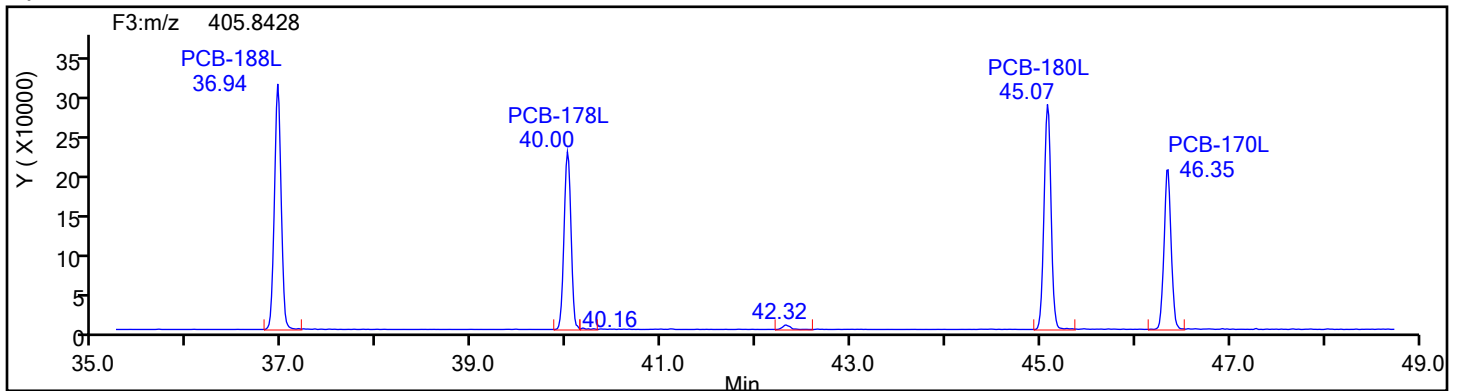
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

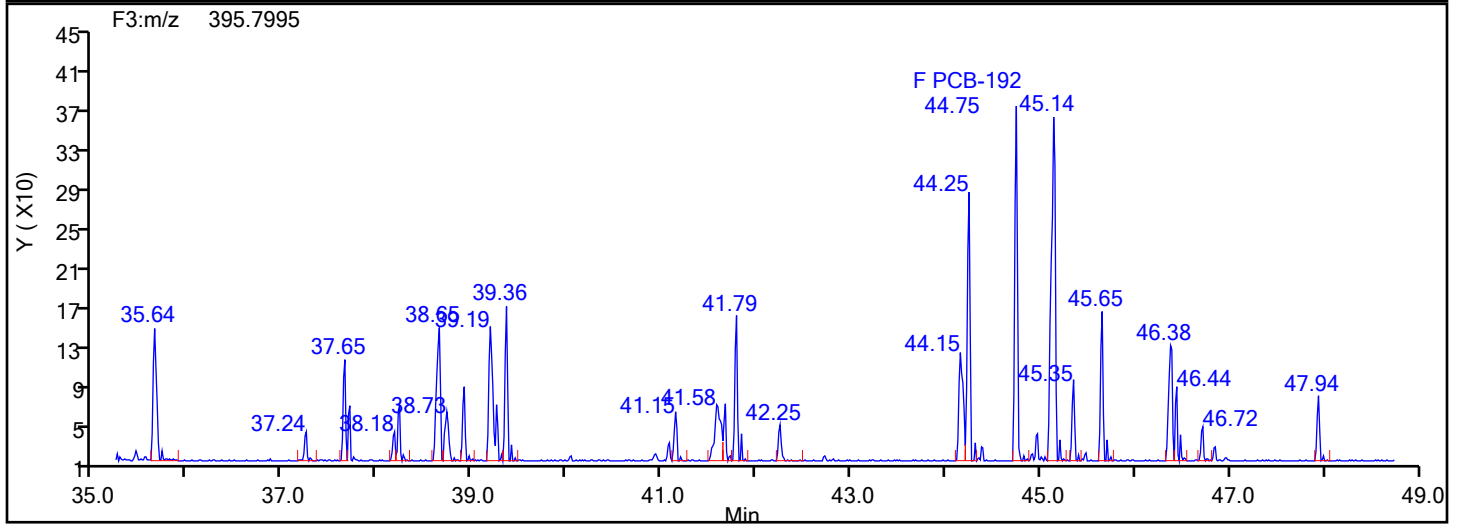
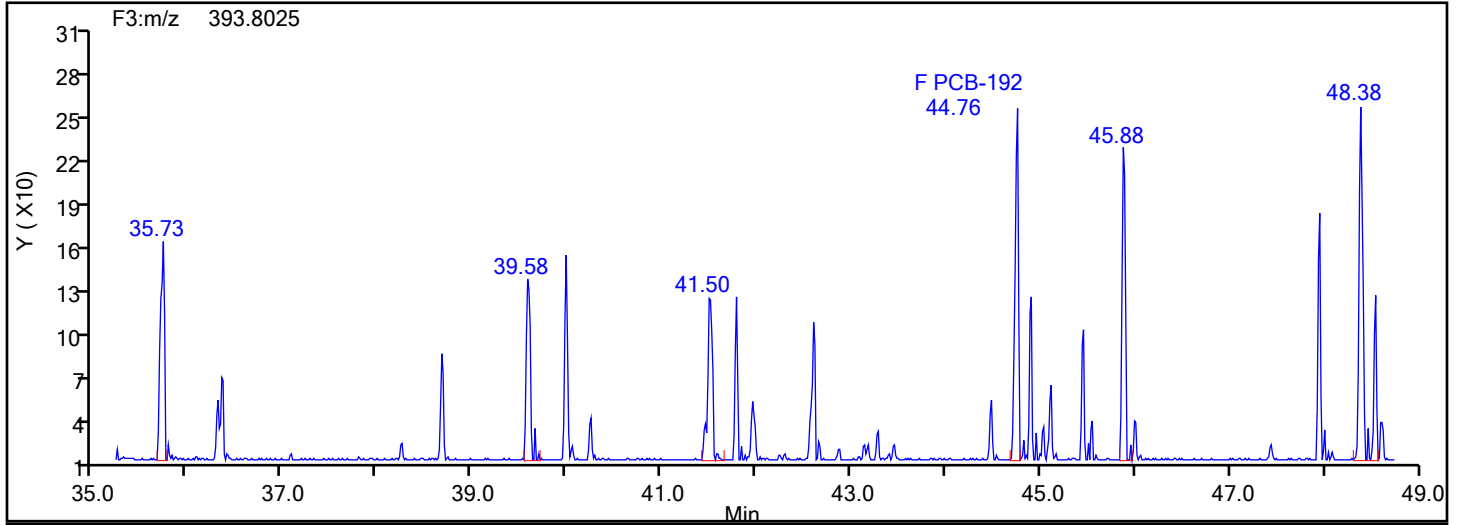
Worklist#: 88747

Sample Line#: 8

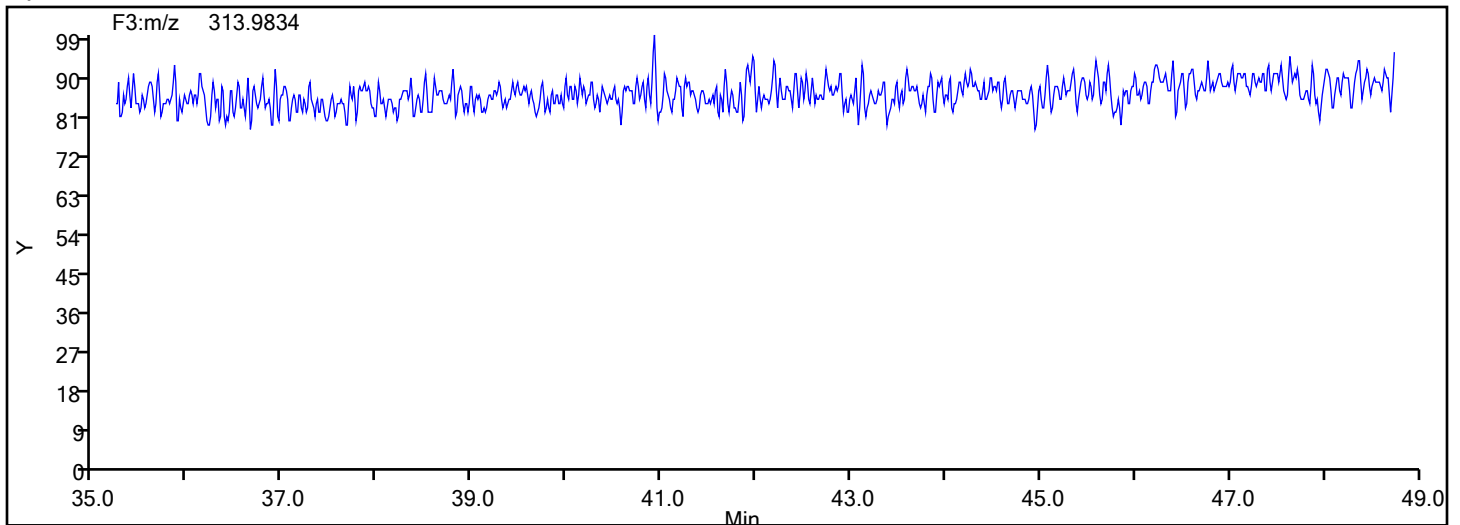
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

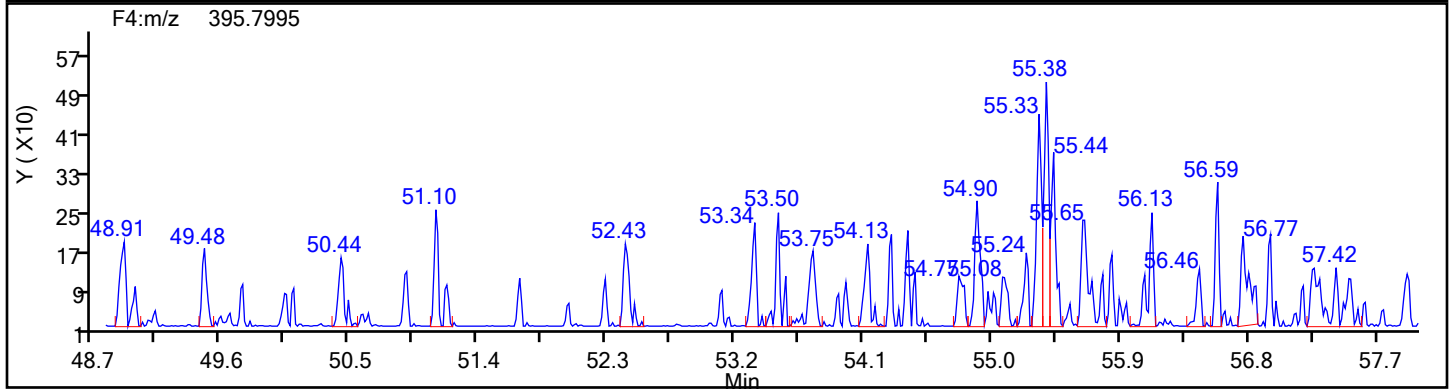
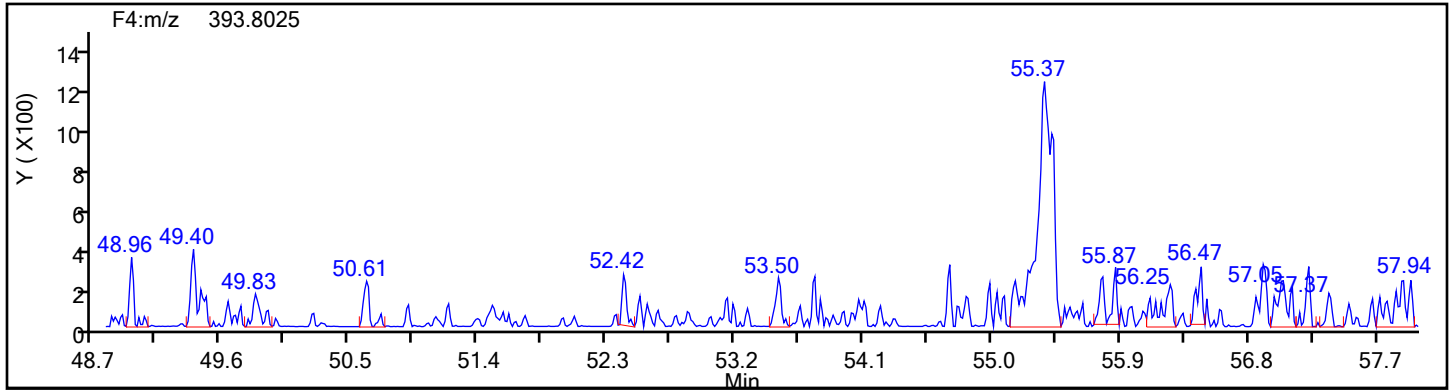
Worklist#: 88747

Sample Line#: 8

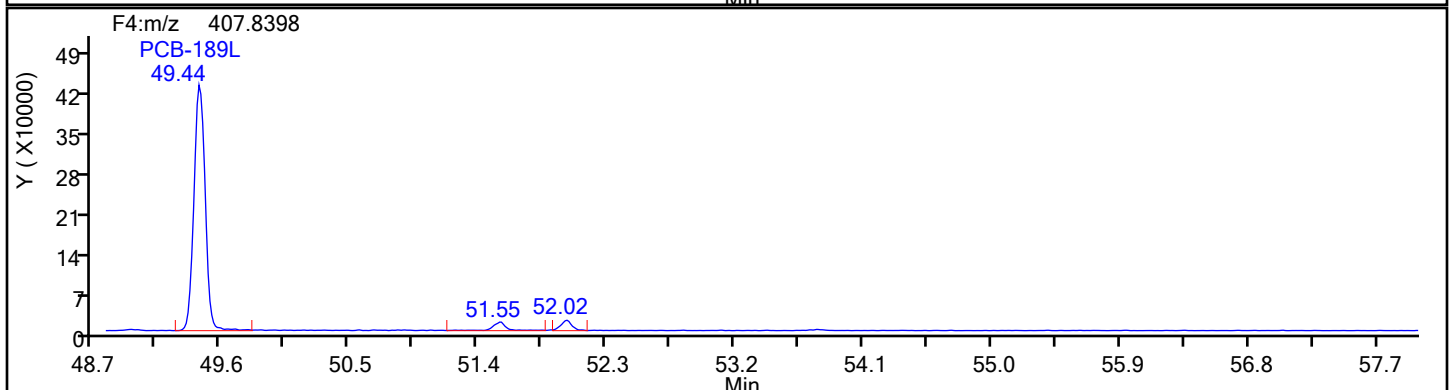
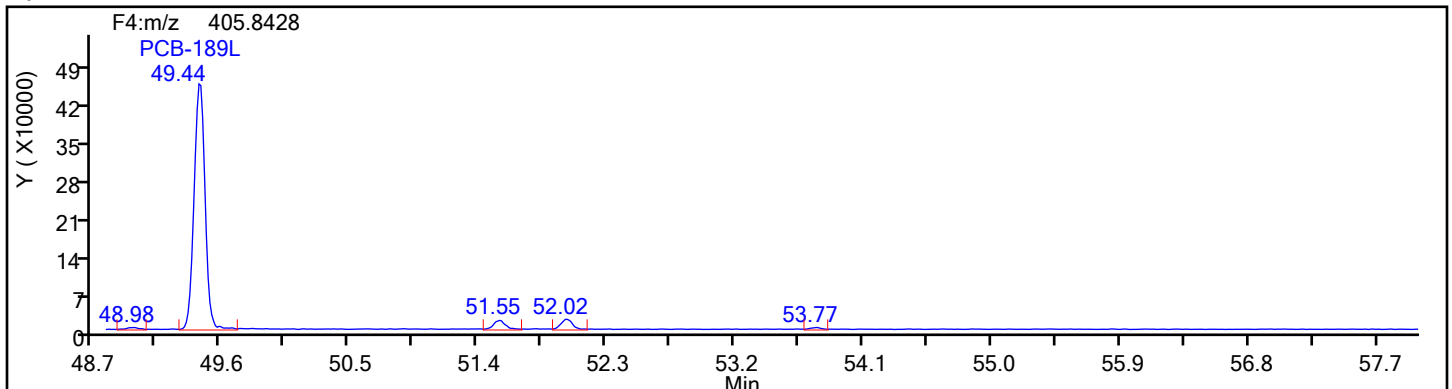
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

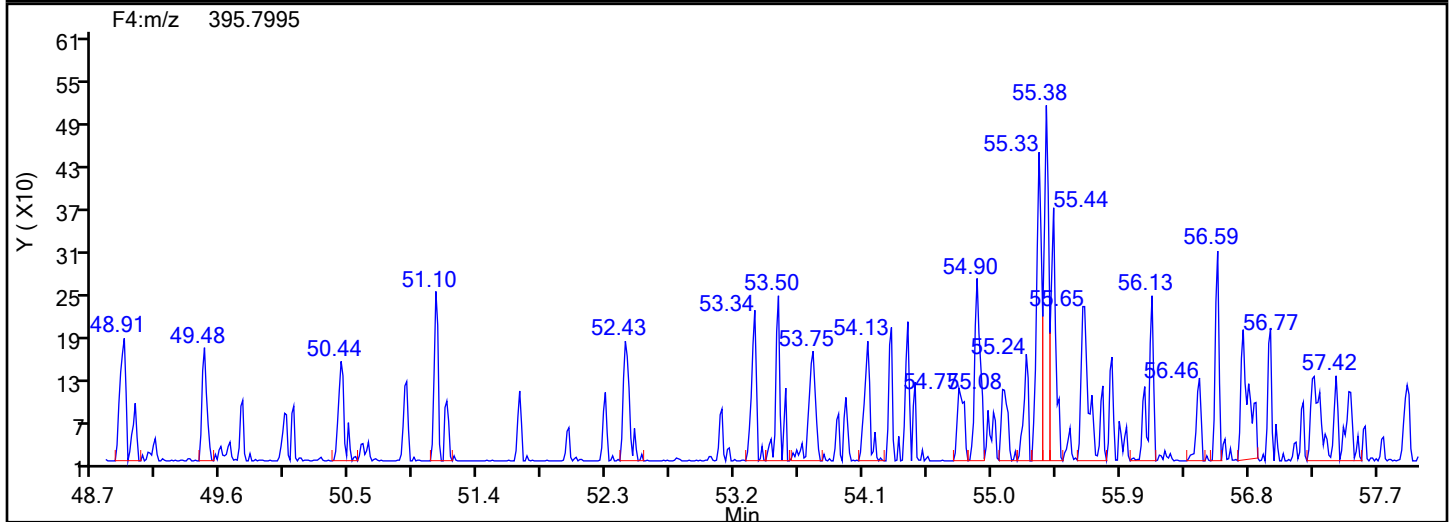
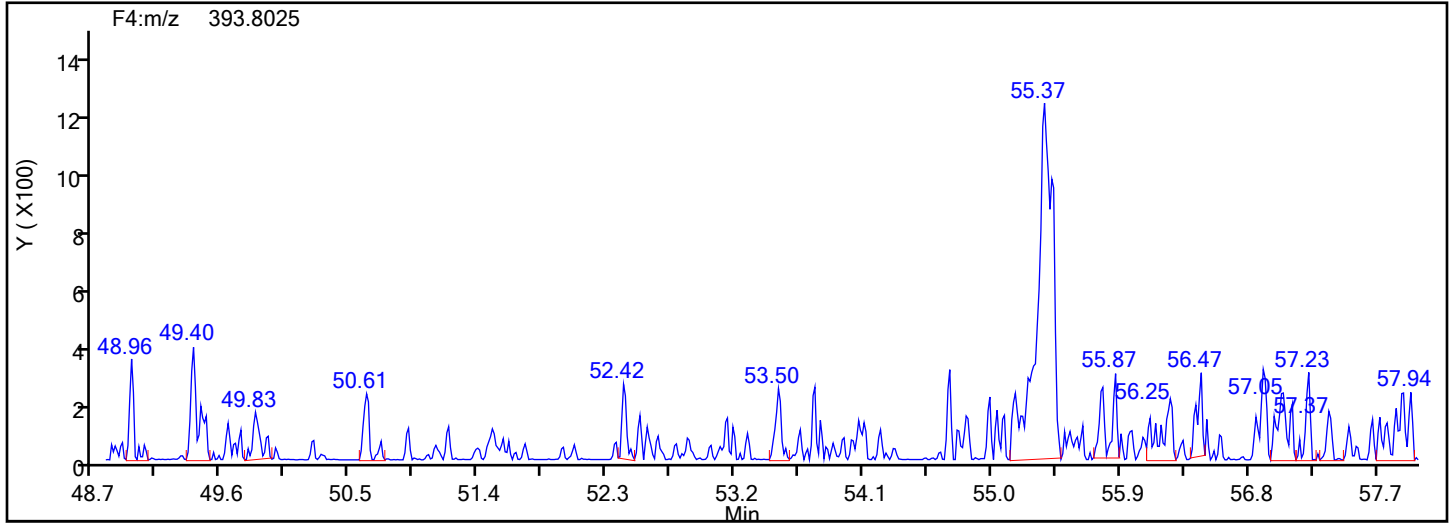
Worklist#: 88747

Sample Line#: 8

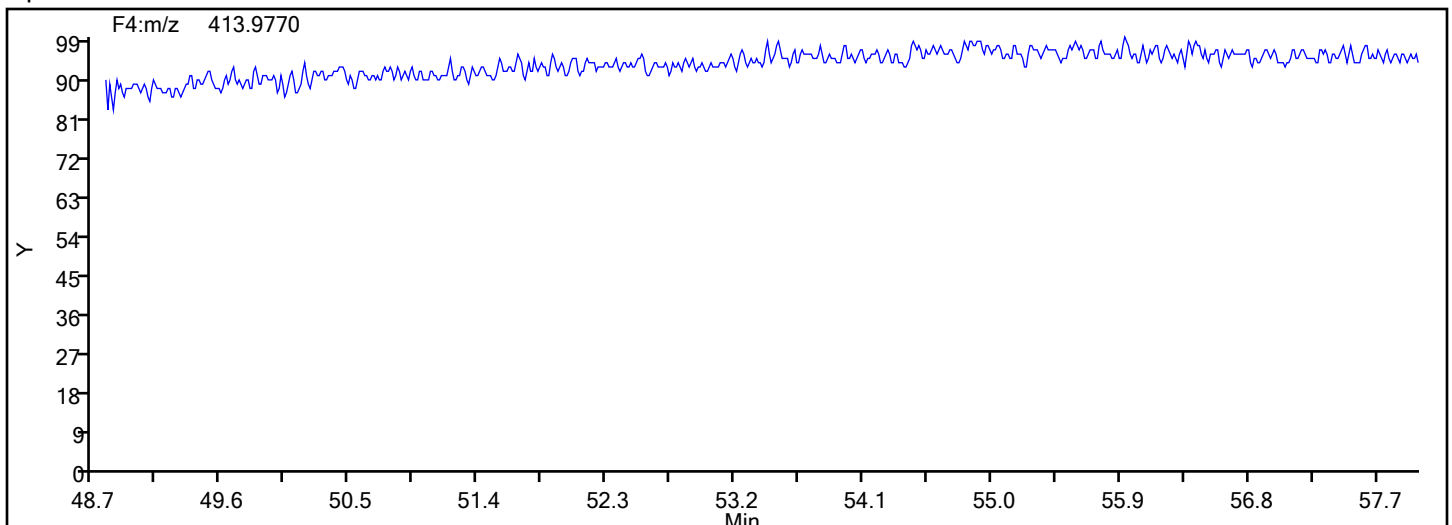
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

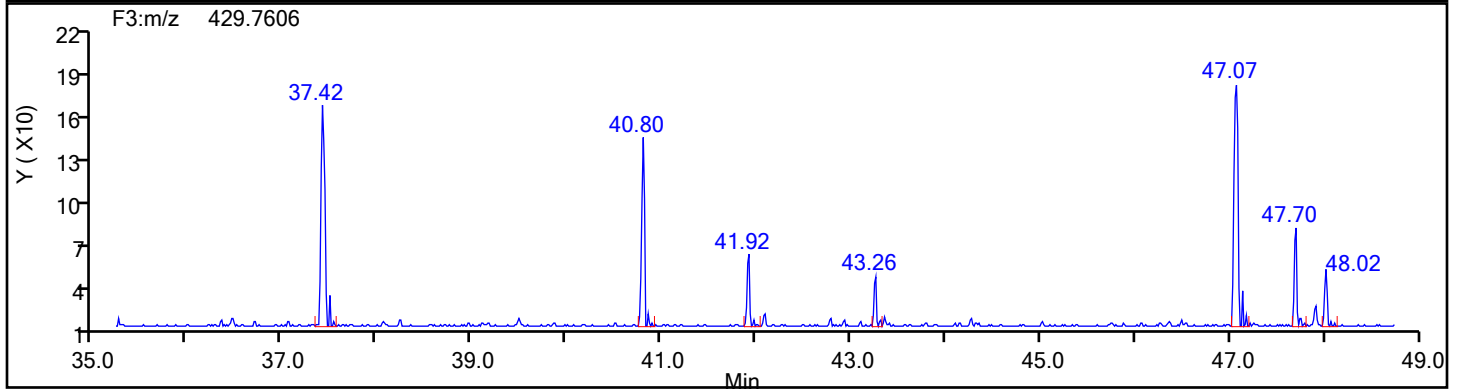
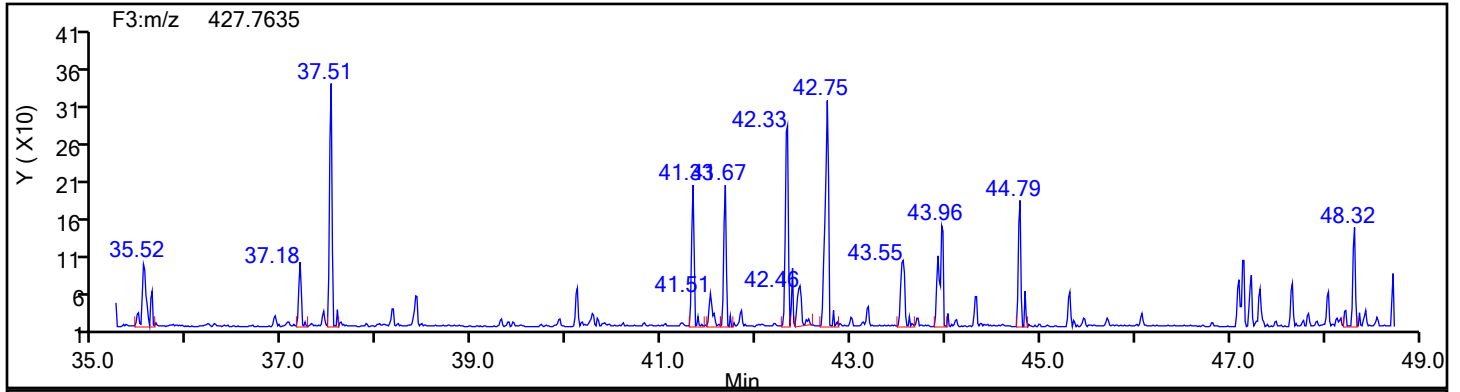
Worklist#: 88747

Sample Line#: 8

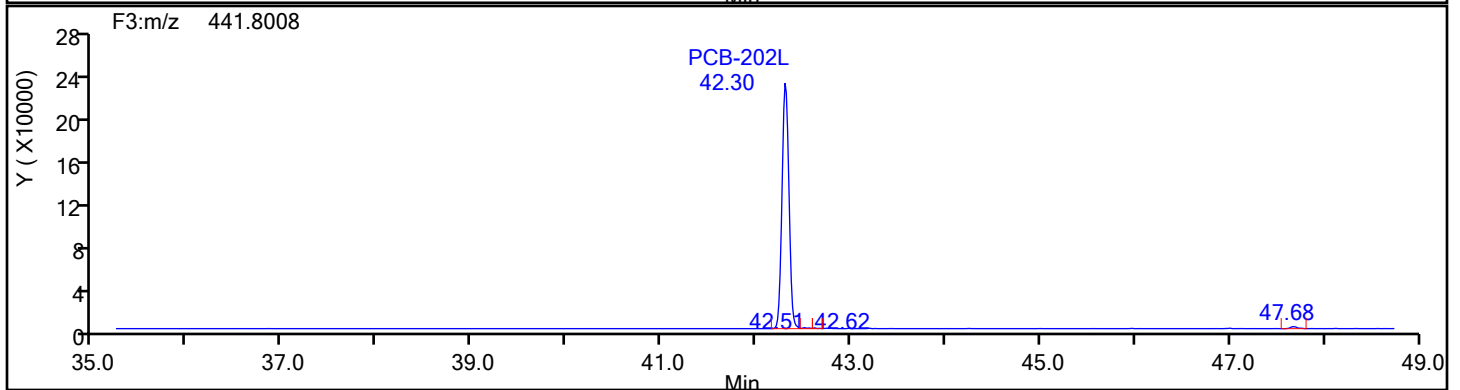
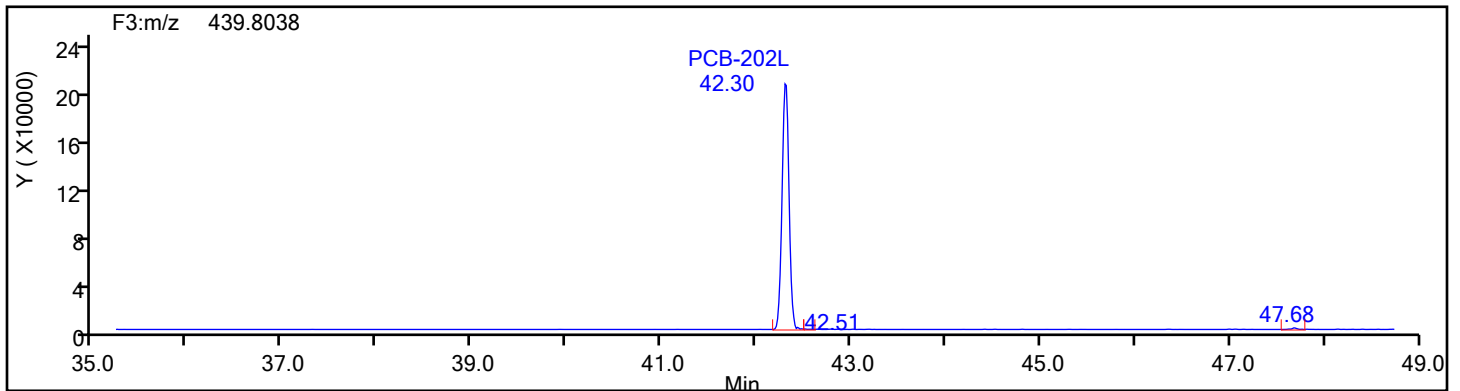
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

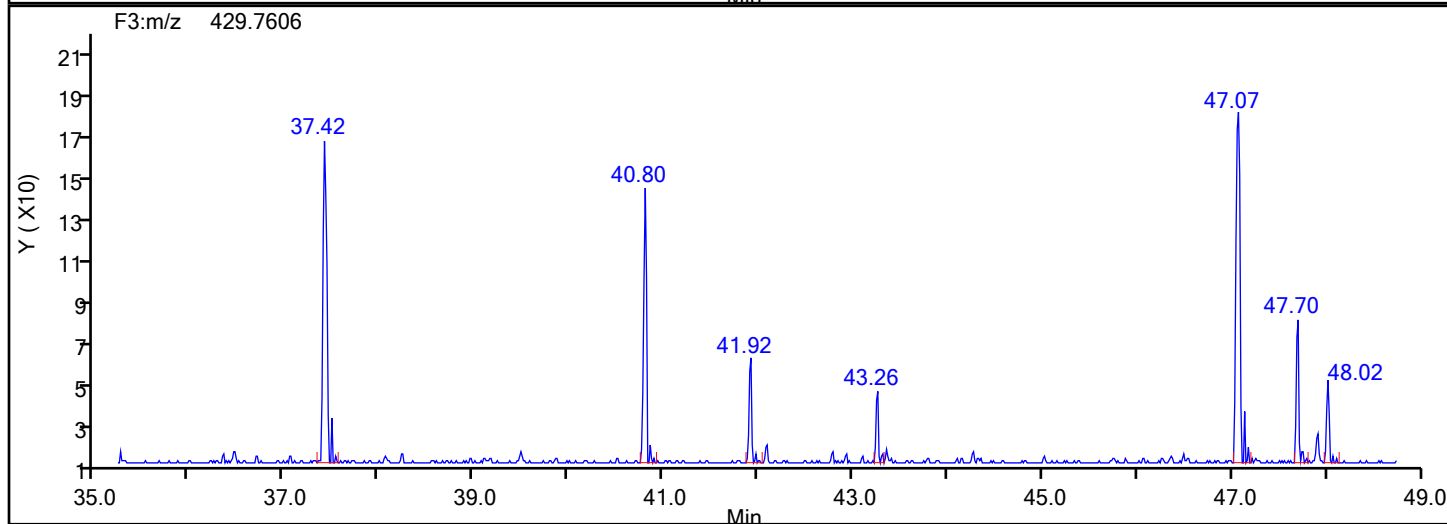
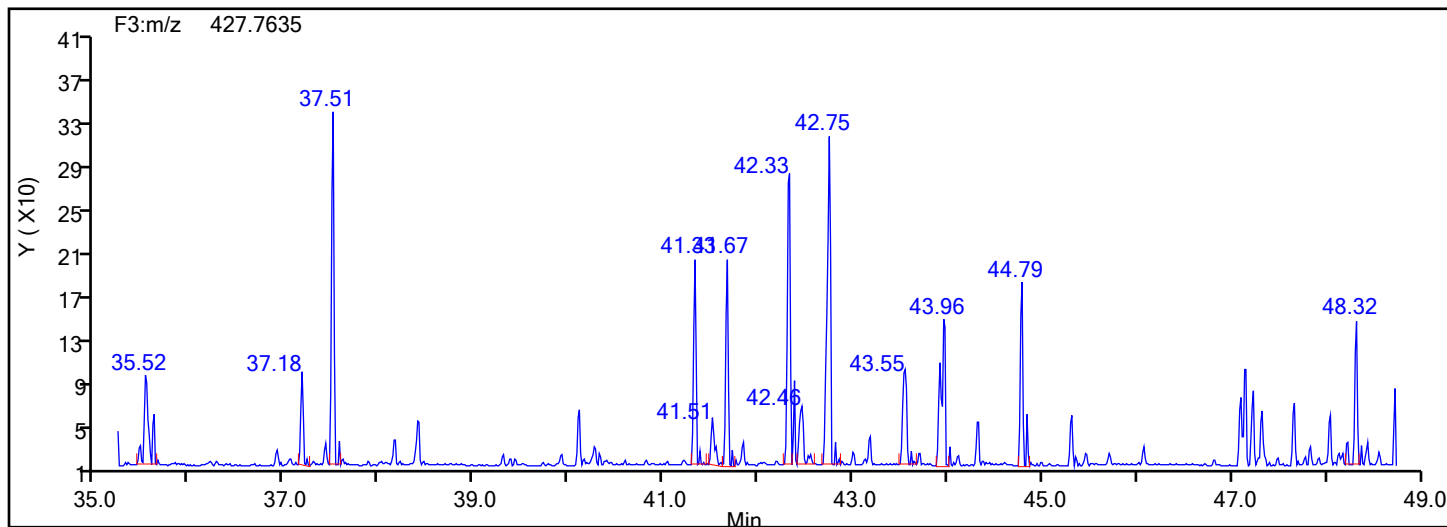
Worklist#: 88747

Sample Line#: 8

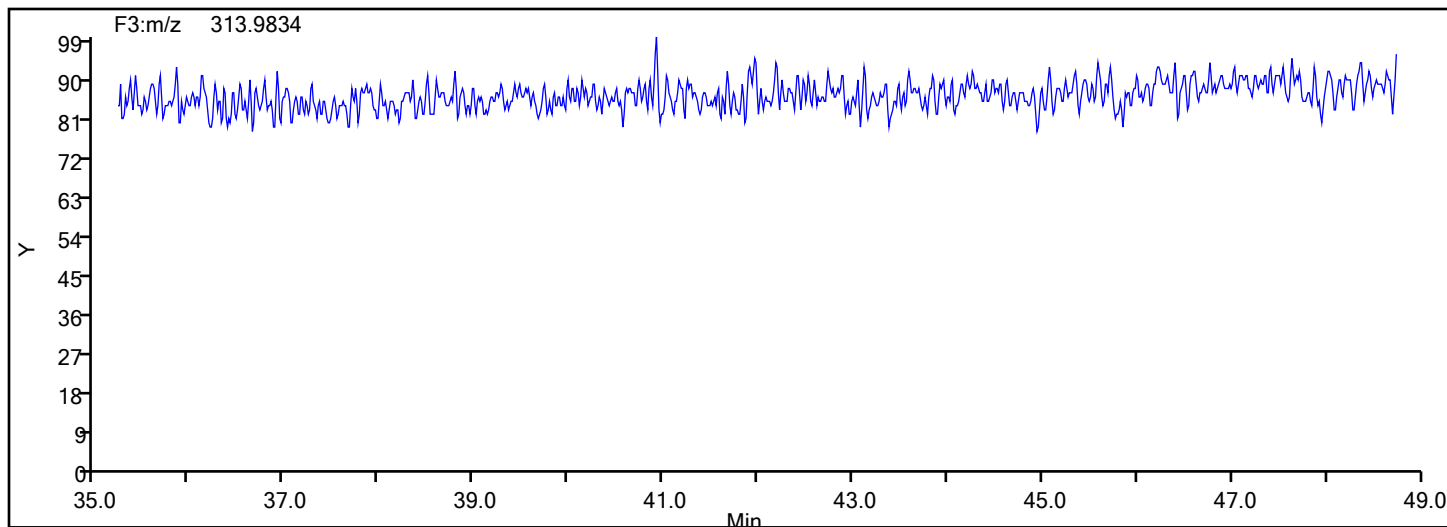
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

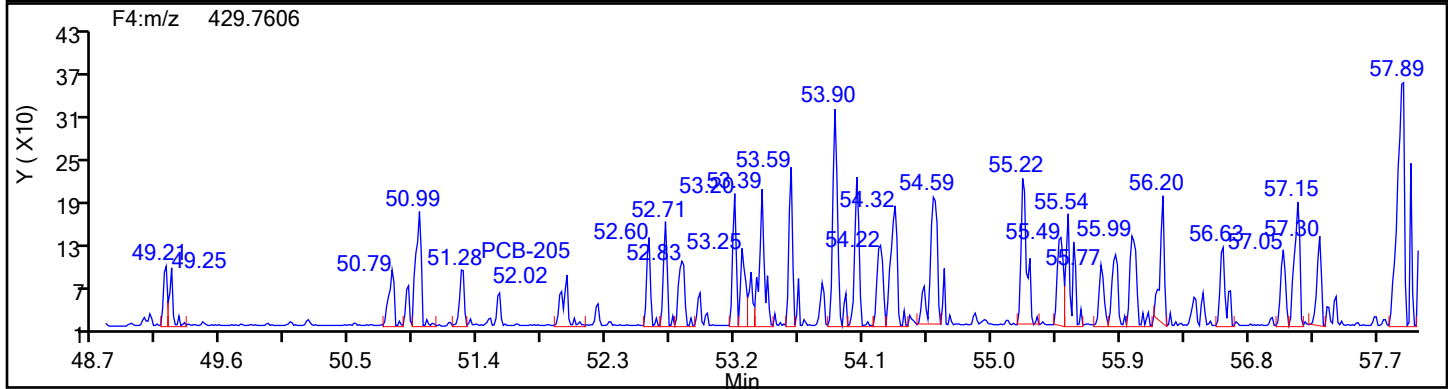
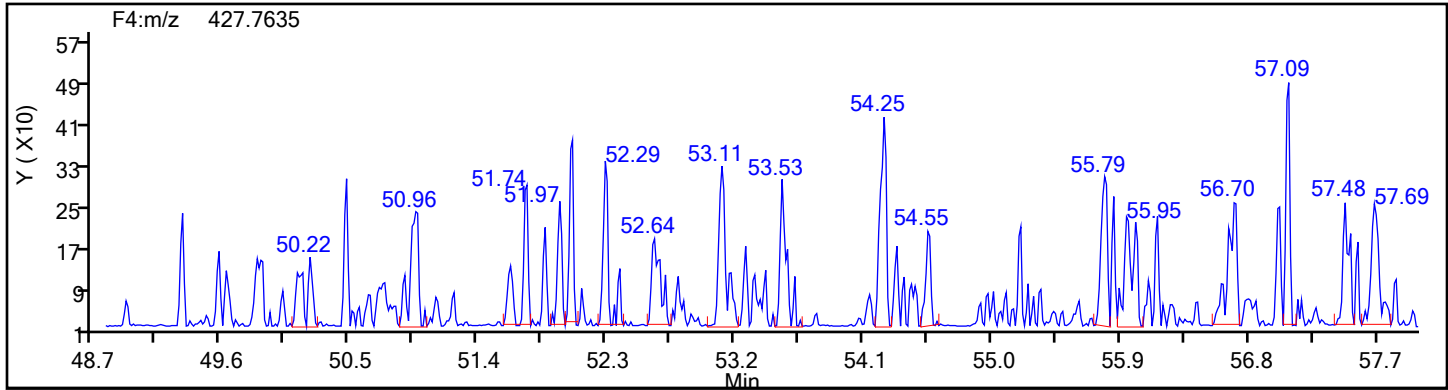
Worklist#: 88747

Sample Line#: 8

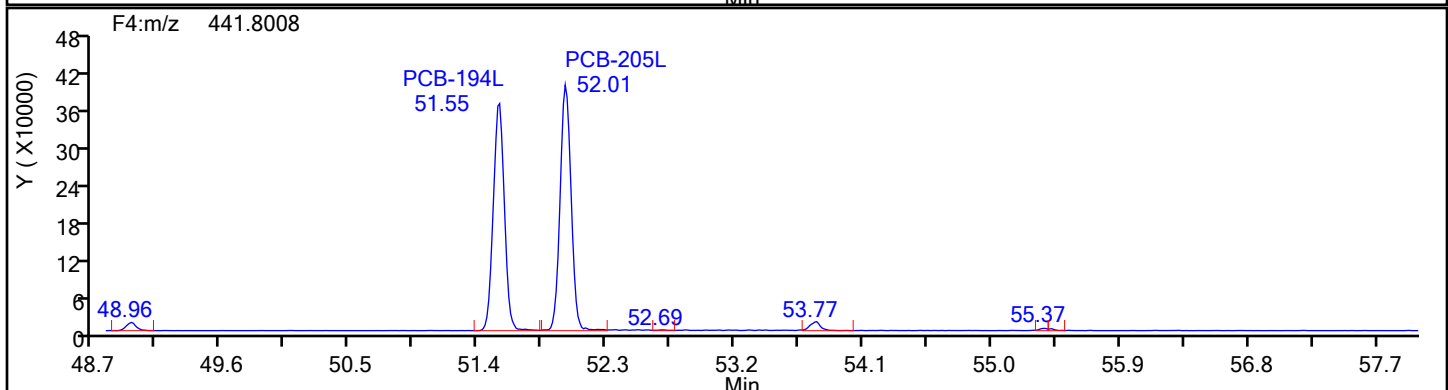
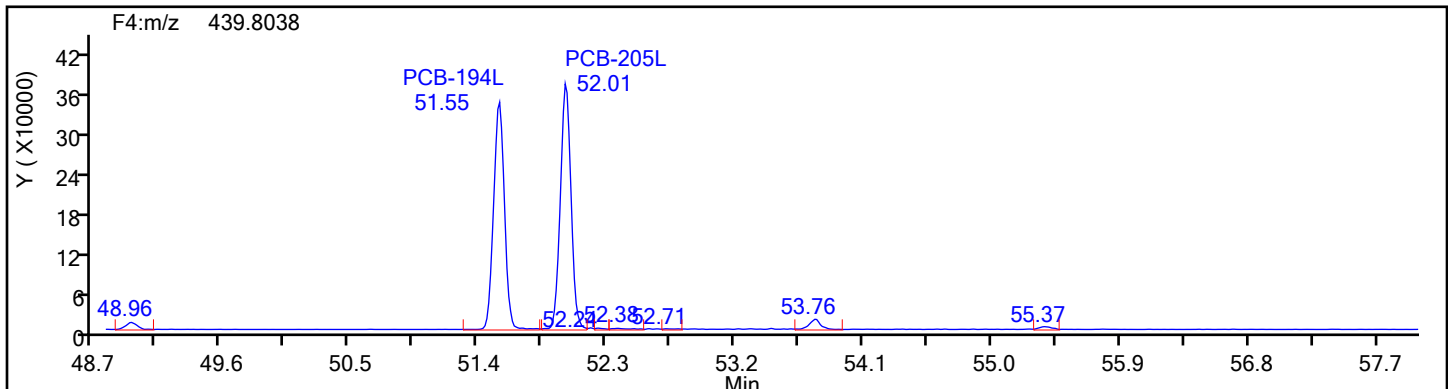
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

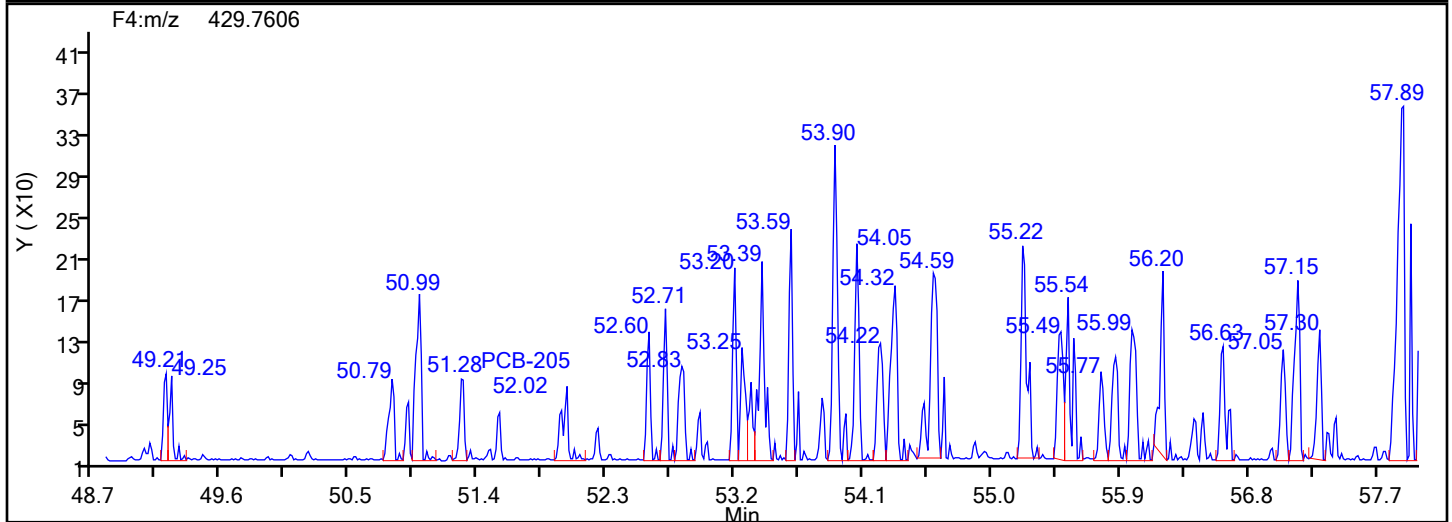
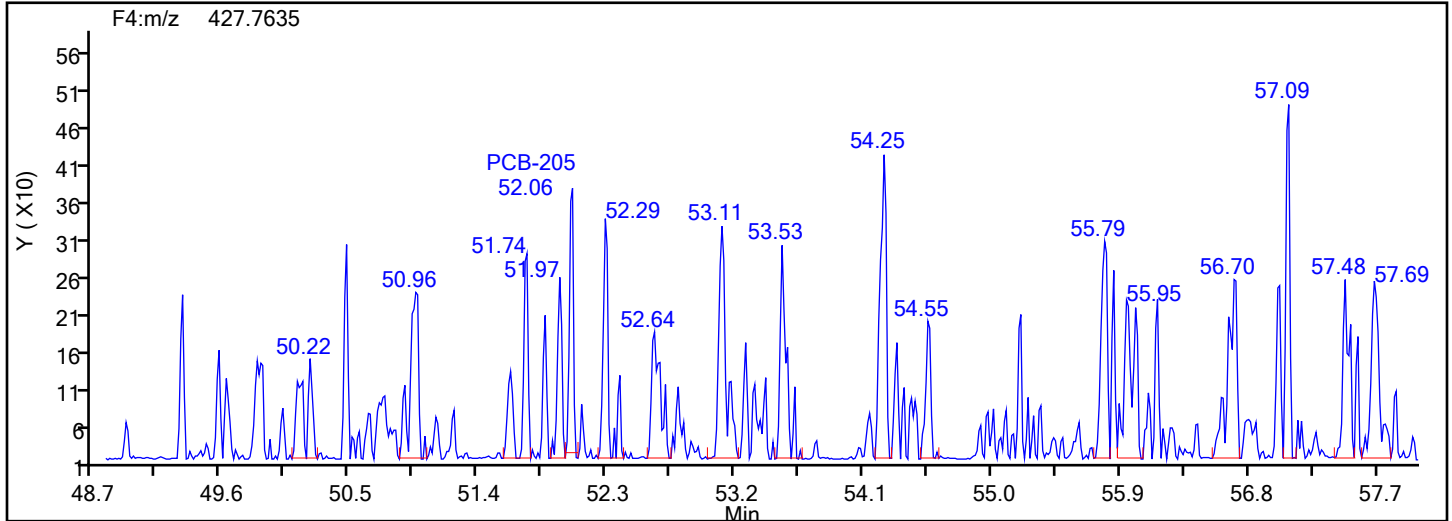
Worklist#: 88747

Sample Line#: 8

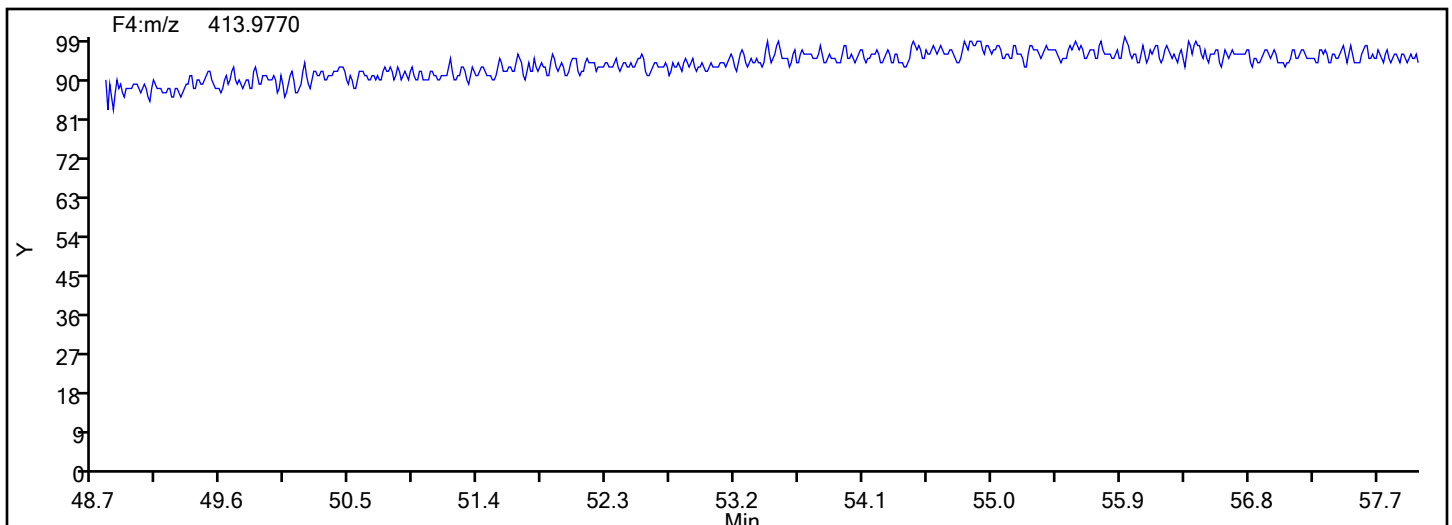
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

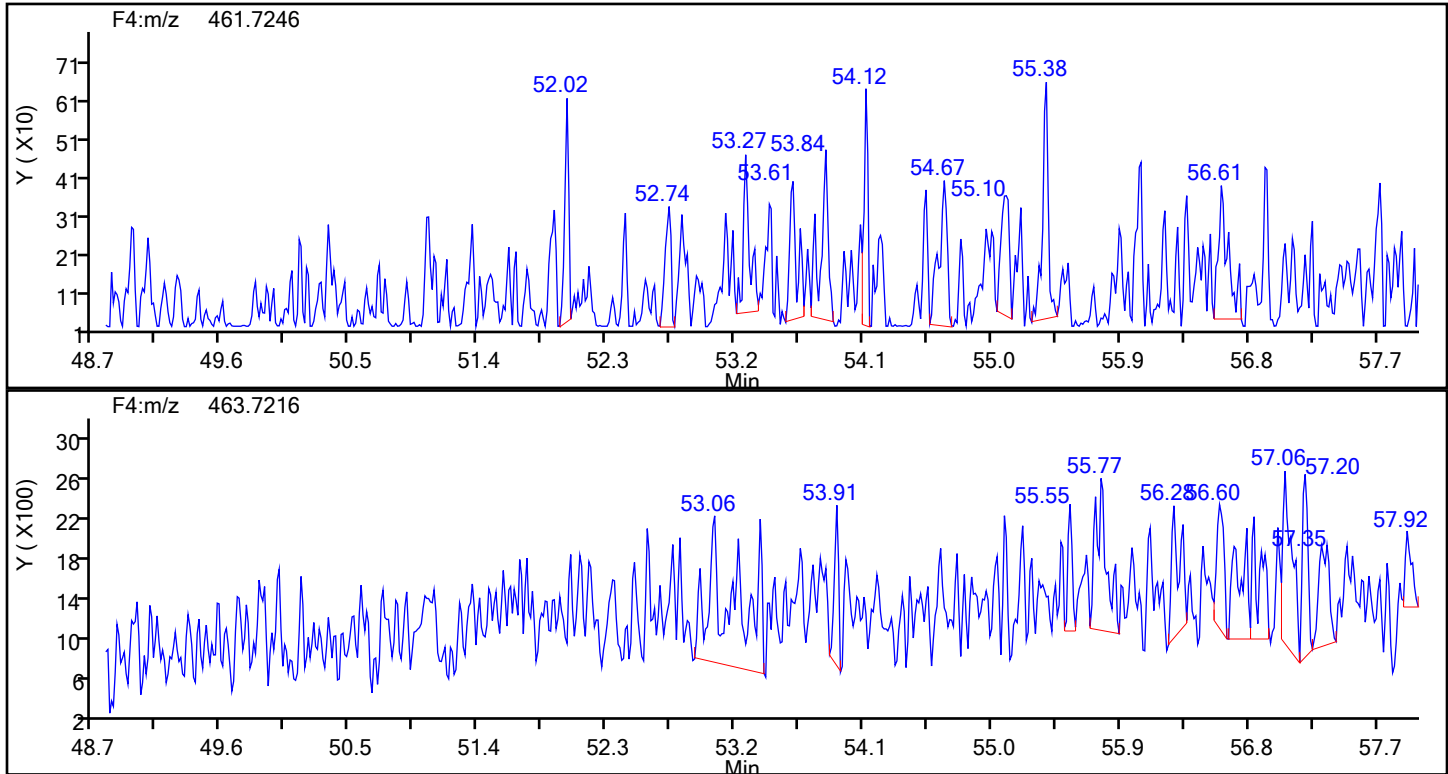
Worklist#: 88747

Sample Line#: 8

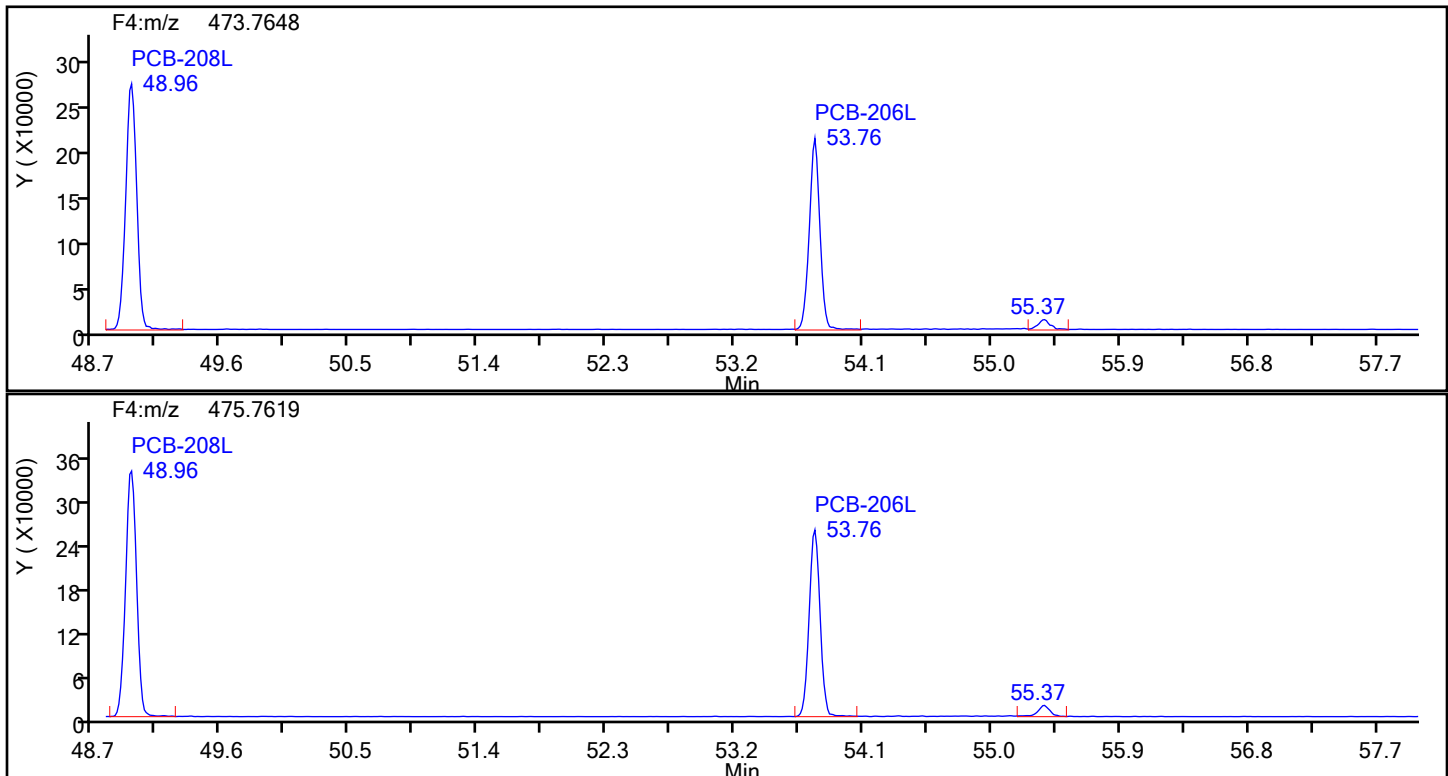
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

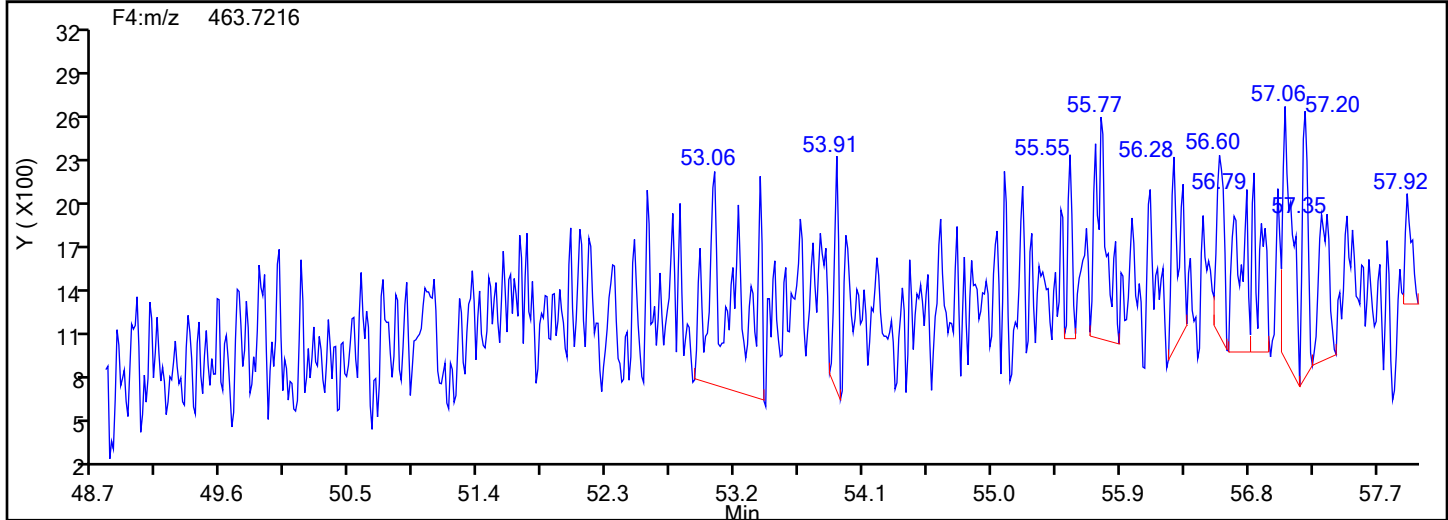
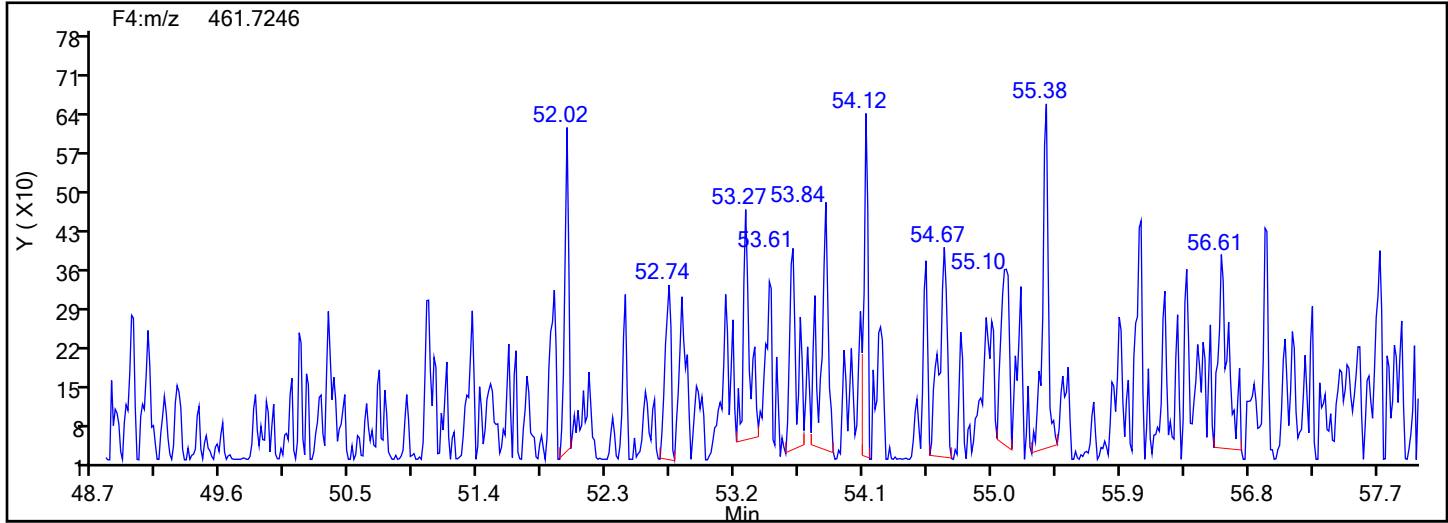


NoPCB F4 Standards

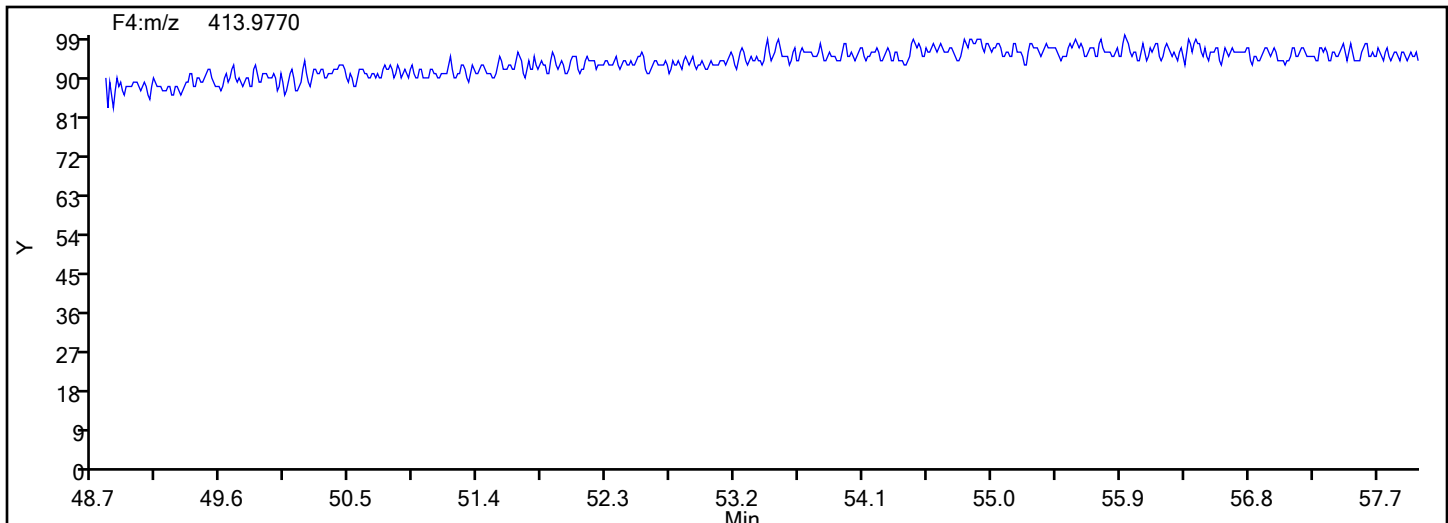


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Injection Date: 15-Jul-2024 16:31:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 8
Column Type: SPB-Octyl Column Dia: 0.25 mm
NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

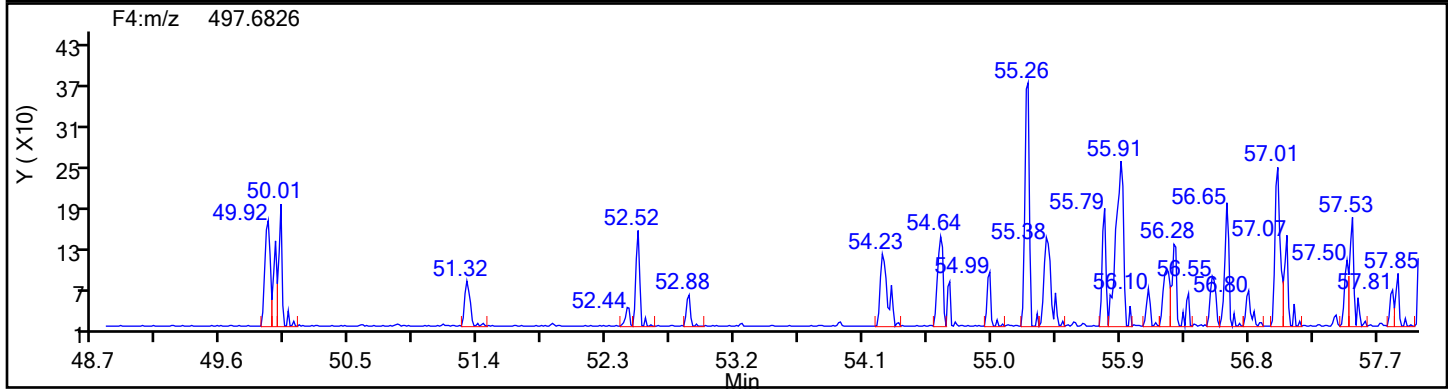
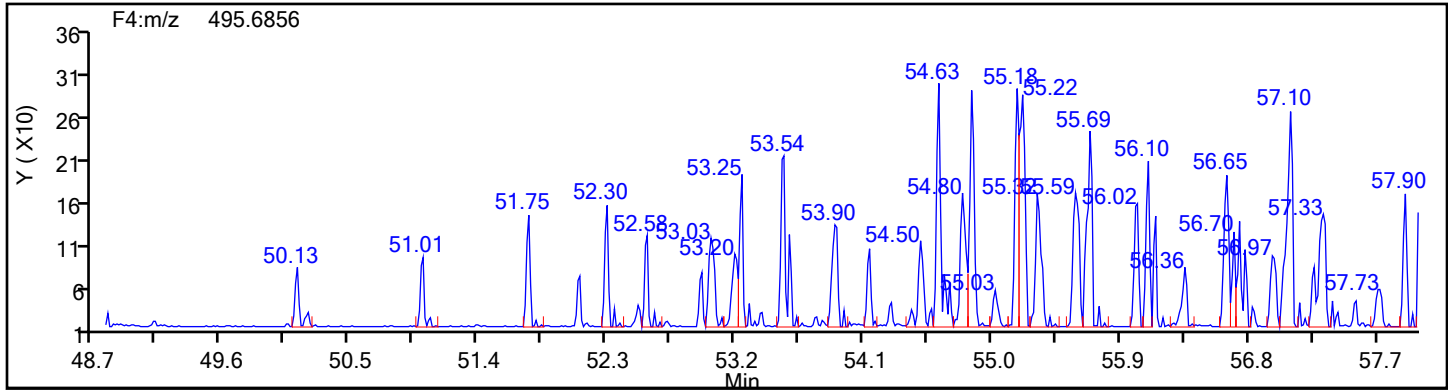
Worklist#: 88747

Sample Line#: 8

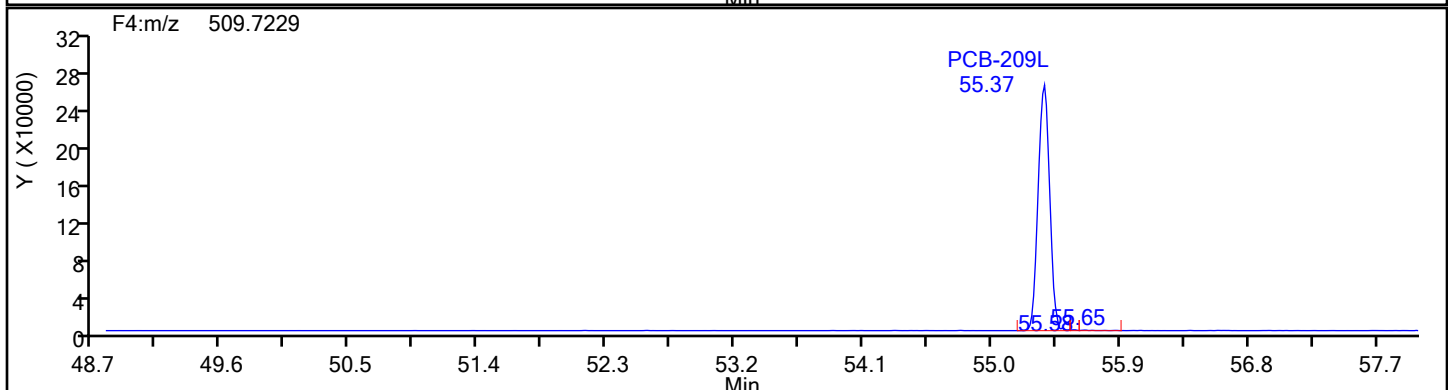
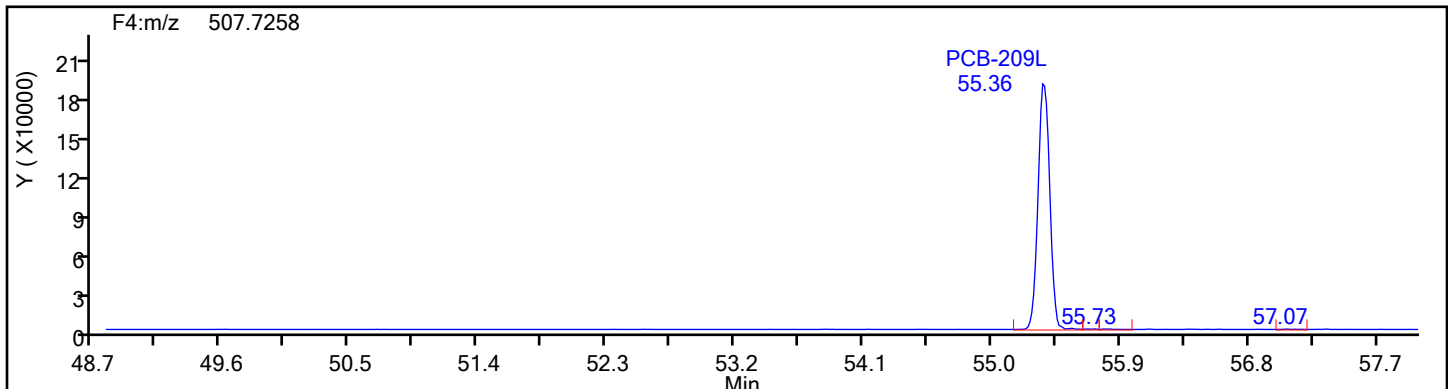
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d

Injection Date: 15-Jul-2024 16:31:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

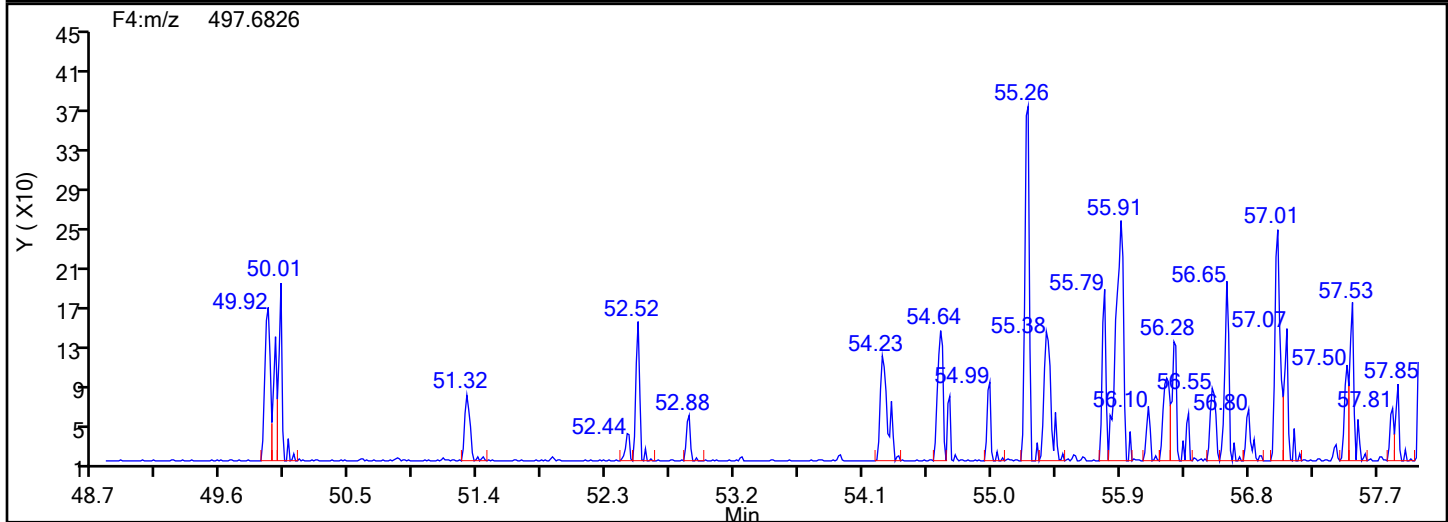
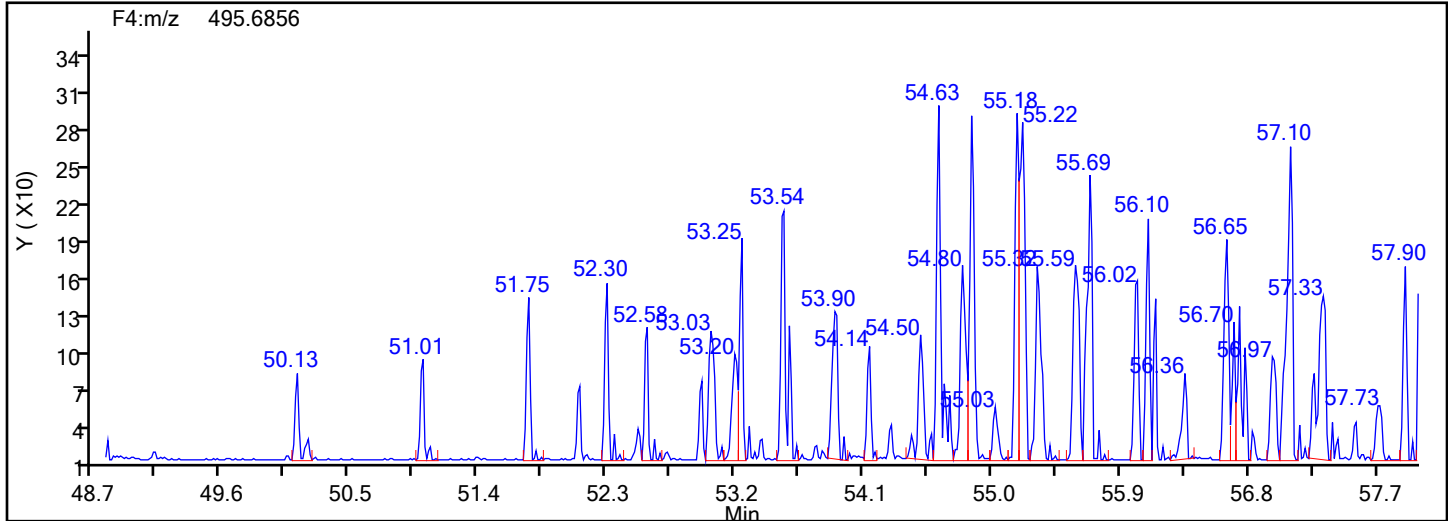
Worklist#: 88747

Sample Line#: 8

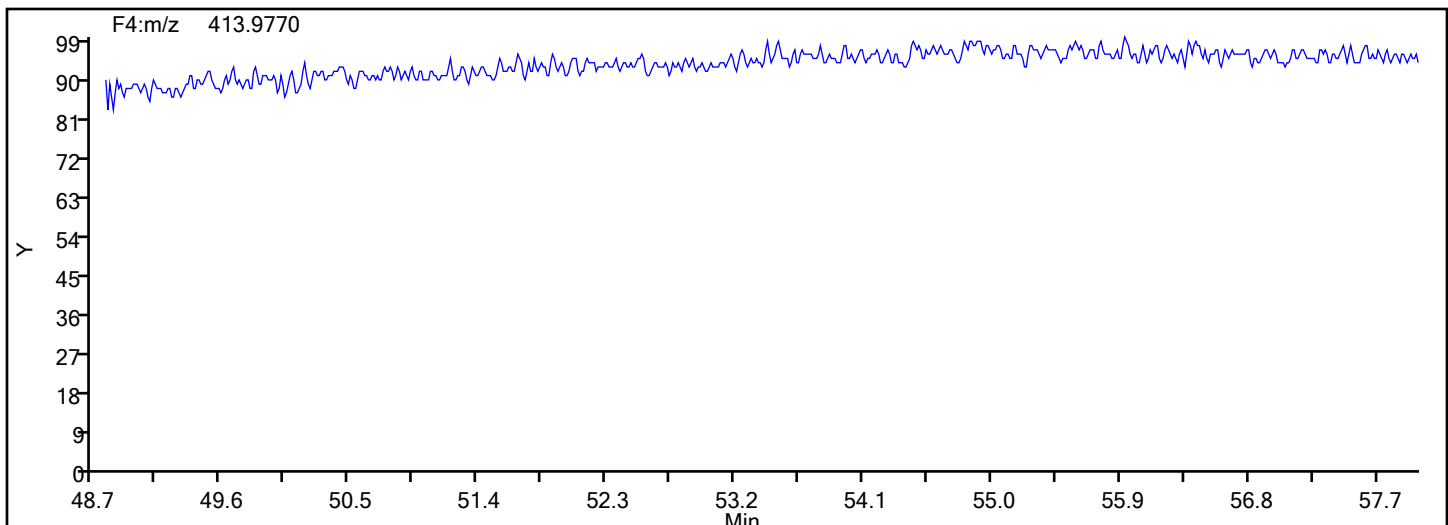
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\mb140-8819321-b.d
Lims ID: MB 140-88193/21-B
Client ID:
Sample Type: MB
Inject. Date: 15-Jul-2024 16:31:00 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-008
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:54:52 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:54:51

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	72.1	72.05
PCB-111L	100.0	73.4	73.38
PCB-178L	100.0	75.1	75.10

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-88193/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8819319-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/15/2024 13:44</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	14.00		0.600	0.132	0.0265
37680-65-2	PCB-18	28.19	C	0.600	0.285	0.0188
7012-37-5	PCB-28	28.01	C20	0.600	0.252	0.201
41464-39-5	PCB-44	38.43	C	0.900	0.390	0.162
35693-99-3	PCB-52	12.81		0.300	0.132	0.171
32598-10-0	PCB-66	14.43		0.300	0.120	0.125
32598-13-3	PCB-77	13.34		0.300	0.126	0.143
70362-50-4	PCB-81	13.65		0.300	0.0960	0.148
37680-73-2	PCB-101	44.01	C90	0.900	0.390	0.0309
32598-14-4	PCB-105	14.04		0.300	0.102	0.201
74472-37-0	PCB-114	13.87		0.300	0.165	0.217
31508-00-6	PCB-118	13.37		0.300	0.183	0.193
65510-44-3	PCB-123	14.01		0.300	0.171	0.231
57465-28-8	PCB-126	14.13		0.300	0.123	0.235
38380-07-3	PCB-128	26.16	C	0.600	0.204	0.0991
35065-28-2	PCB-138	53.12	C129	1.20	0.510	0.103
35065-27-1	PCB-153	26.20	C	0.600	0.249	0.0891
38380-08-4	PCB-156	28.29	C	0.600	0.255	0.110
69782-90-7	PCB-157	28.29	C156	0.600	0.255	0.110
52663-72-6	PCB-167	13.90		0.300	0.180	0.0715
32774-16-6	PCB-169	14.12		0.300	0.123	0.0710
35065-30-6	PCB-170	13.58		0.300	0.132	0.0151
35065-29-3	PCB-180	29.84	C	0.600	0.204	0.0125
52663-68-0	PCB-187	13.79		0.300	0.126	0.0133
39635-31-9	PCB-189	14.59		0.300	0.147	0.0445
52663-78-2	PCB-195	14.03		0.300	0.159	0.0971
40186-72-9	PCB-206	13.02		0.300	0.171	0.138
2051-24-3	PCB-209	14.30		0.300	0.138	0.0351

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-88193/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8819319-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 13:44</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	74		15-145
208263-77-8	PCB-3L	73		15-145
234432-86-1	PCB-4L	72		15-145
208263-67-6	PCB-15L	71		15-145
234432-87-2	PCB-19L	68		15-145
208263-79-0	PCB-37L	73		15-145
234432-88-3	PCB-54L	78		15-145
105600-23-5	PCB-77L	79		40-145
208461-24-9	PCB-81L	78		40-145
234432-89-4	PCB-104L	74		40-145
208263-62-1	PCB-105L	85		40-145
208263-63-2	PCB-114L	80		40-145
104130-40-7	PCB-118L	81		40-145
208263-64-3	PCB-123L	79		40-145
208263-65-4	PCB-126L	84		40-145
234432-90-7	PCB-155L	74		40-145
208263-68-7	PCB-156L	86	C	40-145
235416-30-5	PCB-157L	86	C156	40-145
208263-69-8	PCB-167L	83		40-145
208263-70-1	PCB-169L	86		40-145
160901-80-4	PCB-170L	86		40-145
234432-91-8	PCB-188L	77		40-145
208263-73-4	PCB-189L	86		40-145
105600-26-8	PCB-202L	79		40-145
234446-64-1	PCB-205L	86		40-145
208263-75-6	PCB-206L	88		40-145
234432-92-9	PCB-208L	86		40-145
105600-27-9	PCB-209L	96		40-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 140-88193/19-B
Matrix: Air Lab File ID: lcs140-8819319-b.d
Analysis Method: 23 Date Collected: _____
Extract. Method: Combined Prep Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1 (Sample) Date Analyzed: 07/15/2024 13:44
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 88747 Units: ng/Sample
Preparation Batch No.: 88193 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	67		15-145
235416-29-2	PCB-111L	72		40-145
232919-67-4	PCB-178L	70		40-145

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d
Lims ID: LCS 140-88193/19-B
Client ID:
Sample Type: LCS
Inject. Date: 15-Jul-2024 13:44:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-002
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:43:22 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:43:22

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					142.1	142.1	0.1944	0.1944		
D PCB-1L	11:36	6649210	3.17	1.6108	73.5	73.5	0.3140	0.3140	73.54	
D PCB-3L	13:44	6529848	3.18	1.5891	73.2	73.2	0.3183	0.3183	73.20	
PCB-1	11:36	3870258	3.21	1.2191	47.7	47.7	0.1714	0.1714	95.49	
PCB-2	13:35	3649858	3.11	1.1805	46.9	46.9	0.1970	0.1970	93.84	
PCB-3	13:45	3780974	3.09	1.2206	47.4	47.4	0.2149	0.2149	94.88	
S Total Dichlorobiphenyls					573.9	573.9	0.1020	0.1020		
D PCB-4L	13:59	2600582	1.63	0.6475	71.5	71.5	0.2101	0.2101	71.55	
* PCB-9L	15:56	5613212	1.63		100.0	100.0				
D PCB-15L	19:50	4309261	1.63	1.0789	71.2	71.2	0.1261	0.1261	71.15	
PCB-4	14:01	1565938	1.59	1.2818	47.0	47.0	0.1208	0.1208	93.95	
PCB-10	14:10	2240765	1.61	1.3149	49.3	49.3	0.1067	0.1067	98.65	
PCB-9	15:57	2307415	1.63	1.4224	47.0	47.0	0.0987	0.0987	93.90	
PCB-7	16:07	2240193	1.58	1.4134	45.9	45.9	0.0993	0.0993	91.75	
PCB-6	16:22	2449277	1.59	1.5421	46.0	46.0	0.0910	0.0910	91.94	
PCB-5	16:40	2144962	1.62	1.3395	46.4	46.4	0.1048	0.1048	92.70	
PCB-8	16:48	2562472	1.56	1.5889	46.7	46.7	0.0883	0.0883	93.36	
PCB-14	18:23	2459707	1.55	1.4025	50.8	50.8	0.1001	0.1001	102	
PCB-11	19:14	2218991	1.60	1.2951	49.6	49.6	0.1084	0.1084	99.19	
PCB-12	19:32	4488919	1.60	1.3358	97.3	97.3	0.1051	0.1051	97.27	
PCB-13 (C12)	19:32	4488919	1.60	1.3358	97.3	97.3	0.1051	0.1051	97.27	
PCB-15	19:51	2677062	1.61	1.2903	48.1	48.1	0.0994	0.0994	96.29	
S Total Trichlorobiphenyls					1128.9	1128.9	0.4744	0.4744		
D PCB-19L	17:04	1639875	1.03	0.6285	68.1	68.1	0.5754	0.5754	68.13	
* PCB-32L	20:18	3829250	1.08		100.0	100.0				
* PCB-31L	22:34	9302010	1.06		100.0	100.0				
\$ PCB-28L	22:50	6501814	1.07	1.0494	66.6	66.6	0.1042	0.1042	66.61	
D PCB-37L	26:51	5971021	1.08	0.8749	73.4	73.4	0.1250	0.1250	73.37	
PCB-19	17:06	949312	1.07	1.2809	45.2	45.2	0.0865	0.0865	90.39	
PCB-18	18:53	2719852	1.09	1.7652	94.0	94.0	0.0627	0.0627	93.96	
PCB-30 (C18)	18:53	2719852	1.09	1.7652	94.0	94.0	0.0627	0.0627	93.96	
PCB-17	19:21	950739	1.07	1.2430	46.6	46.6	0.0891	0.0891	93.28	
PCB-27	19:35	1413343	1.09	1.8327	47.0	47.0	0.0604	0.0604	94.05	
PCB-24	19:42	1327341	1.00	1.6777	48.2	48.2	0.0660	0.0660	96.49	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:49	906714	1.04	1.1286	49.0	49.0	0.0981	0.0981	97.98	
PCB-32	20:20	1488202	1.01	1.8324	49.5	49.5	0.0604	0.0604	99.05	
PCB-34	21:34	3197834	1.05	1.1277	47.5	47.5	0.6959	0.6959	94.98	
PCB-23	21:43	3121272	1.04	1.0813	48.3	48.3	0.7258	0.7258	96.69	
PCB-26	22:02	6180132	1.05	1.1255	92.0	92.0	0.6973	0.6973	91.96	
PCB-29 (C26)	22:02	6180132	1.05	1.1255	92.0	92.0	0.6973	0.6973	91.96	
PCB-25	22:16	3586087	1.05	1.2728	47.2	47.2	0.6166	0.6166	94.37	
PCB-31	22:34	3277053	1.07	1.1532	47.6	47.6	0.6805	0.6805	95.18	
PCB-20	22:53	6533308	1.05	1.1718	93.4	93.4	0.6697	0.6697	93.37	
PCB-28 (C20)	22:53	6533308	1.05	1.1718	93.4	93.4	0.6697	0.6697	93.37	
PCB-21	23:03	5968238	1.05	1.0746	93.0	93.0	0.7303	0.7303	93.02	M
PCB-33 (C21)	23:03	5968238	1.05	1.0746	93.0	93.0	0.7303	0.7303	93.02	M
PCB-22	23:30	3367906	1.07	1.1932	47.3	47.3	0.6577	0.6577	94.54	
PCB-36	25:03	3012475	1.05	1.1071	45.6	45.6	0.7089	0.7089	91.15	
PCB-39	25:24	3213863	1.07	1.1581	46.5	46.5	0.6776	0.6776	92.95	
PCB-38	25:59	2932658	1.03	1.0843	45.3	45.3	0.7237	0.7237	90.59	
PCB-35	26:27	3313998	1.07	1.1297	49.1	49.1	0.6947	0.6947	98.26	
PCB-37	26:52	3182818	1.05	1.1435	46.6	46.6	0.6863	0.6863	93.23	
S Total Tetrachlorobiphenyls					1850.2	1850.2	0.4774	0.4774		
D PCB-54L	20:09	1653833	0.83	0.5562	77.6	77.6	0.0769	0.0769	77.65	
* PCB-52L	24:41	4752713	0.79		100.0	100.0				
D PCB-81L	33:35	4610084	0.81	1.2470	77.8	77.8	0.1182	0.1182	77.79	
D PCB-77L	34:09	4971538	0.80	1.3212	79.2	79.2	0.1116	0.1116	79.17	
PCB-54	20:10	1003895	0.80	1.2733	47.7	47.7	0.0837	0.0837	95.34	
PCB-50	22:19	3339657	0.78	0.8578	81.3	81.3	0.6114	0.6114	81.27	
PCB-53 (C50)	22:19	3339657	0.78	0.8578	81.3	81.3	0.6114	0.6114	81.27	
PCB-45	23:03	3402682	0.76	0.8264	85.9	85.9	0.6346	0.6346	85.94	M
PCB-51 (C45)	23:03	3402682	0.76	0.8264	85.9	85.9	0.6346	0.6346	85.94	M
PCB-46	23:18	1429408	0.79	0.7101	42.0	42.0	0.7386	0.7386	84.04	
PCB-52	24:42	1880979	0.82	0.9194	42.7	42.7	0.5704	0.5704	85.41	
PCB-43	24:50	4438679	0.79	1.0333	89.7	89.7	0.5075	0.5075	89.66	M
PCB-73 (C43)	24:50	4438679	0.79	1.0333	89.7	89.7	0.5075	0.5075	89.66	M
PCB-49	25:07	4417901	0.78	1.0685	86.3	86.3	0.4908	0.4908	86.30	
PCB-69 (C49)	25:07	4417901	0.78	1.0685	86.3	86.3	0.4908	0.4908	86.30	
PCB-48	25:28	1754730	0.78	0.8399	43.6	43.6	0.6244	0.6244	87.22	
PCB-44	25:42	5972617	0.79	0.9731	128.1	128.1	0.5390	0.5390	85.41	
PCB-47 (C44)	25:42	5972617	0.79	0.9731	128.1	128.1	0.5390	0.5390	85.41	
PCB-65 (C44)	25:42	5972617	0.79	0.9731	128.1	128.1	0.5390	0.5390	85.41	
PCB-59	26:01	7036419	0.79	1.1853	123.9	123.9	0.4425	0.4425	82.61	
PCB-62 (C59)	26:01	7036419	0.79	1.1853	123.9	123.9	0.4425	0.4425	82.61	
PCB-75 (C59)	26:01	7036419	0.79	1.1853	123.9	123.9	0.4425	0.4425	82.61	
PCB-42	26:13	1756467	0.81	0.8097	45.3	45.3	0.6478	0.6478	90.57	
PCB-40	26:43	5489175	0.78	0.8863	129.3	129.3	0.5917	0.5917	86.18	
PCB-41 (C40)	26:43	5489175	0.78	0.8863	129.3	129.3	0.5917	0.5917	86.18	
PCB-71 (C40)	26:43	5489175	0.78	0.8863	129.3	129.3	0.5917	0.5917	86.18	
PCB-64	26:55	2467691	0.80	1.1776	43.7	43.7	0.4454	0.4454	87.48	
PCB-72	27:45	2300815	0.80	1.0943	43.9	43.9	0.4793	0.4793	87.78	
PCB-68	28:02	2694036	0.81	1.2533	44.9	44.9	0.4185	0.4185	89.74	
PCB-57	28:27	2375772	0.77	1.0818	45.8	45.8	0.4848	0.4848	91.68	
PCB-58	28:41	3058322	0.77	1.3253	48.2	48.2	0.3957	0.3957	96.33	
PCB-67	28:51	2937788	0.82	1.4230	43.1	43.1	0.3686	0.3686	86.18	
PCB-63	29:07	2391293	0.79	1.1240	44.4	44.4	0.4666	0.4666	88.82	
PCB-61	29:28	10646198	0.79	1.2612	176.2	176.2	0.4158	0.4158	88.10	
PCB-70 (C61)	29:28	10646198	0.79	1.2612	176.2	176.2	0.4158	0.4158	88.10	
PCB-74 (C61)	29:28	10646198	0.79	1.2612	176.2	176.2	0.4158	0.4158	88.10	
PCB-76 (C61)	29:28	10646198	0.79	1.2612	176.2	176.2	0.4158	0.4158	88.10	
PCB-66	29:47	2898687	0.81	1.2583	48.1	48.1	0.4168	0.4168	96.17	
PCB-55	29:57	3004399	0.77	1.3236	47.4	47.4	0.3962	0.3962	94.76	
PCB-56	30:28	2785394	0.78	1.2334	47.1	47.1	0.4252	0.4252	94.28	
PCB-60	30:40	2394411	0.78	1.1230	44.5	44.5	0.4670	0.4670	89.01	
PCB-80	31:04	2915109	0.80	1.3243	45.9	45.9	0.3960	0.3960	91.90	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:36	3013893	0.79	1.4368	43.8	43.8	0.3650	0.3650	87.57	
PCB-78	33:10	2640378	0.80	1.1618	47.4	47.4	0.4514	0.4514	94.87	
PCB-81	33:36	2266019	0.82	1.0802	45.5	45.5	0.4949	0.4949	91.01	
PCB-77	34:10	2395136	0.79	1.0836	44.5	44.5	0.4750	0.4750	88.92	
S Total Pentachlorobiphenyls					2185.7	2185.7	0.3047	0.3047		
D PCB-104L	25:36	3012176	1.58	1.2161	74.2	74.2	0.0858	0.0858	74.15	
* PCB-101L	31:29	3340304	1.62		100.0	100.0				
\$ PCB-111L	34:10	3306825	1.58	1.3699	72.3	72.3	0.0762	0.0762	72.27	
D PCB-123L	36:07	4649248	1.60	0.9731	78.6	78.6	0.9620	0.9620	78.56	
D PCB-118L	36:27	4956725	1.65	1.0102	80.7	80.7	0.9267	0.9267	80.69	
D PCB-114L	36:59	4837899	1.59	0.9949	80.0	80.0	0.9410	0.9410	79.97	
D PCB-105L	37:39	4918511	1.61	0.9514	85.0	85.0	0.9839	0.9839	85.01	
* PCB-127L	39:06	6081203	1.60		100.0	100.0				
D PCB-126L	40:43	4818323	1.58	0.9439	83.9	83.9	0.992	0.992	83.95	
PCB-104	25:38	1414872	1.59	1.0087	46.6	46.6	0.0974	0.0974	93.13	
PCB-96	26:01	1499492	1.62	1.0940	45.5	45.5	0.0898	0.0898	91.01	
PCB-103	27:55	1278818	1.70	0.8741	48.6	48.6	0.1124	0.1124	97.14	
PCB-94	28:09	1032151	1.55	0.7640	44.8	44.8	0.1286	0.1286	89.70	
PCB-95	28:36	1171781	1.59	0.8033	48.4	48.4	0.1223	0.1223	96.86	
PCB-93	28:48	2325587	1.62	0.8429	91.6	91.6	0.1166	0.1166	91.60	
PCB-100 (C93)	28:48	2325587	1.62	0.8429	91.6	91.6	0.1166	0.1166	91.60	
PCB-98	28:58	2314394	1.61	0.8262	93.0	93.0	0.1189	0.1189	93.00	M
PCB-102 (C98)	28:58	2314394	1.61	0.8262	93.0	93.0	0.1189	0.1189	93.00	M
PCB-88	29:27	2239867	1.64	0.8013	92.8	92.8	0.1226	0.1226	92.80	
PCB-91 (C88)	29:27	2239867	1.64	0.8013	92.8	92.8	0.1226	0.1226	92.80	
PCB-84	29:42	1050157	1.51	0.7299	47.8	47.8	0.1346	0.1346	95.53	
PCB-89	30:10	1113282	1.57	0.7798	47.4	47.4	0.1260	0.1260	94.79	
PCB-121	30:33	1863852	1.60	1.2964	47.7	47.7	0.0758	0.0758	95.46	M
PCB-92	30:56	1273921	1.59	0.8546	49.5	49.5	0.1150	0.1150	98.98	M
PCB-90	31:29	4219915	1.60	0.9550	146.7	146.7	0.1029	0.1029	97.80	
PCB-101 (C90)	31:29	4219915	1.60	0.9550	146.7	146.7	0.1029	0.1029	97.80	
PCB-113 (C90)	31:29	4219915	1.60	0.9550	146.7	146.7	0.1029	0.1029	97.80	
PCB-83	32:05	2518193	1.65	0.8385	99.7	99.7	0.1172	0.1172	99.70	
PCB-99 (C83)	32:05	2518193	1.65	0.8385	99.7	99.7	0.1172	0.1172	99.70	
PCB-112	32:13	2080870	1.53	1.4111	49.0	49.0	0.0696	0.0696	97.91	
PCB-86	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-87 (C86)	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-97 (C86)	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-109 (C86)	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-119 (C86)	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-125 (C86)	32:35	9190717	1.58	1.0473	291.3	291.3	0.0938	0.0938	97.12	M
PCB-85	33:18	4569985	1.57	1.0408	145.8	145.8	0.0944	0.0944	97.18	
PCB-116 (C85)	33:18	4569985	1.57	1.0408	145.8	145.8	0.0944	0.0944	97.18	
PCB-117 (C85)	33:18	4569985	1.57	1.0408	145.8	145.8	0.0944	0.0944	97.18	
PCB-110	33:30	3583722	1.59	1.1919	99.8	99.8	0.0824	0.0824	99.82	
PCB-115 (C110)	33:30	3583722	1.59	1.1919	99.8	99.8	0.0824	0.0824	99.82	
PCB-82	33:49	1252993	1.58	0.8303	50.1	50.1	0.1183	0.1183	100	
PCB-111	34:11	1831251	1.63	1.2125	50.1	50.1	0.0810	0.0810	100	
PCB-120	34:39	2225632	1.59	1.4762	50.1	50.1	0.0666	0.0666	100	
PCB-108	35:48	4814931	1.60	1.1405	87.3	87.3	0.7076	0.7076	87.29	
PCB-124 (C108)	35:48	4814931	1.60	1.1405	87.3	87.3	0.7076	0.7076	87.29	
PCB-107	36:02	2559231	1.58	1.2121	43.7	43.7	0.6658	0.6658	87.32	
PCB-123	36:09	2327578	1.57	1.0722	46.7	46.7	0.7700	0.7700	93.38	Ma
PCB-106	36:16	2324402	1.67	1.0839	44.3	44.3	0.7445	0.7445	88.68	Ma
PCB-118	36:29	2664025	1.51	1.2055	44.6	44.6	0.6430	0.6430	89.16	
PCB-122	36:50	2190350	1.62	0.9567	47.3	47.3	0.8435	0.8435	94.68	
PCB-114	37:00	2424450	1.54	1.0842	46.2	46.2	0.7232	0.7232	92.45	
PCB-105	37:40	2734137	1.58	1.1879	46.8	46.8	0.6698	0.6698	93.59	
PCB-127	39:07	2499375	1.57	1.1394	45.4	45.4	0.7083	0.7083	90.72	
PCB-126	40:45	2491750	1.58	1.0976	47.1	47.1	0.7840	0.7840	94.23	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					1919.3	1919.3	0.2656	0.2656		
D PCB-155L	31:14	2679547	1.28	1.0851	73.9	73.9	0.0340	0.0340	73.93	
* PCB-138L	39:34	4129793	1.31		100.0	100.0				
D PCB-167L	42:34	4287492	1.27	1.2572	82.6	82.6	0.3727	0.3727	82.58	
D PCB-156L	43:44	8585970	1.29	1.2106	171.7	171.7	0.3871	0.3871	85.87	
D PCB-157L (C156L)	43:44	8585970	1.29	1.2106	171.7	171.7	0.3871	0.3871	85.87	
D PCB-169L	46:57	4431397	1.28	1.2439	86.3	86.3	0.3767	0.3767	86.27	
PCB-155	31:16	1219805	1.30	0.9444	48.2	48.2	0.0620	0.0620	96.40	
PCB-152	31:29	1292067	1.32	0.9895	48.7	48.7	0.0591	0.0591	97.46	
PCB-150	31:39	1359107	1.28	1.0132	50.1	50.1	0.0577	0.0577	100	
PCB-136	32:02	1368358	1.31	1.0116	50.5	50.5	0.0578	0.0578	101	
PCB-145	32:18	1317581	1.24	0.9685	50.8	50.8	0.0604	0.0604	102	
PCB-148	33:48	985382	1.26	0.7603	48.4	48.4	0.0770	0.0770	96.74	
PCB-135	34:25	2037838	1.23	0.7256	104.8	104.8	0.0806	0.0806	105	M
PCB-151 (C135)	34:25	2037838	1.23	0.7256	104.8	104.8	0.0806	0.0806	105	M
PCB-154	34:39	1097854	1.32	0.8129	50.4	50.4	0.0720	0.0720	101	
PCB-144	34:58	1073803	1.24	0.7852	51.0	51.0	0.0745	0.0745	102	
PCB-147	35:20	3478490	1.24	0.8950	89.8	89.8	0.3629	0.3629	89.84	
PCB-149 (C147)	35:20	3478490	1.24	0.8950	89.8	89.8	0.3629	0.3629	89.84	
PCB-134	35:38	2977022	1.27	0.7967	86.4	86.4	0.4077	0.4077	86.38	
PCB-143 (C134)	35:38	2977022	1.27	0.7967	86.4	86.4	0.4077	0.4077	86.38	
PCB-139	35:56	3281152	1.29	0.8769	86.5	86.5	0.3704	0.3704	86.49	
PCB-140 (C139)	35:56	3281152	1.29	0.8769	86.5	86.5	0.3704	0.3704	86.49	
PCB-131	36:08	1372671	1.22	0.7503	42.3	42.3	0.4329	0.4329	84.58	
PCB-142	36:17	1471604	1.34	0.7507	45.3	45.3	0.4326	0.4326	90.62	
PCB-132	36:36	1415970	1.30	0.7489	43.7	43.7	0.4337	0.4337	87.40	
PCB-133	37:06	1463688	1.21	0.8096	41.8	41.8	0.4012	0.4012	83.58	
PCB-165	37:29	1971684	1.26	1.0247	44.5	44.5	0.3169	0.3169	88.95	
PCB-146	37:43	1790427	1.23	0.9637	42.9	42.9	0.3370	0.3370	85.89	
PCB-161	37:51	2115905	1.23	1.1288	43.3	43.3	0.2877	0.2877	86.66	
PCB-153	38:22	4132589	1.23	1.0938	87.3	87.3	0.2969	0.2969	87.34	
PCB-168 (C153)	38:22	4132589	1.23	1.0938	87.3	87.3	0.2969	0.2969	87.34	
PCB-141	38:32	1626989	1.30	0.8755	43.0	43.0	0.3710	0.3710	85.91	
PCB-130	38:58	1296236	1.26	0.7051	42.5	42.5	0.4606	0.4606	84.99	
PCB-137	39:10	1581794	1.28	0.7767	47.1	47.1	0.4182	0.4182	94.15	
PCB-164	39:18	2061307	1.27	1.0382	45.9	45.9	0.3128	0.3128	91.78	
PCB-129	39:36	7249725	1.27	0.9464	177.1	177.1	0.3432	0.3432	88.53	M
PCB-138 (C129)	39:36	7249725	1.27	0.9464	177.1	177.1	0.3432	0.3432	88.53	M
PCB-160 (C129)	39:36	7249725	1.27	0.9464	177.1	177.1	0.3432	0.3432	88.53	M
PCB-163 (C129)	39:36	7249725	1.27	0.9464	177.1	177.1	0.3432	0.3432	88.53	M
PCB-158	39:58	2465955	1.26	1.3110	43.5	43.5	0.2477	0.2477	86.95	
PCB-128	40:49	3708716	1.27	0.9829	87.2	87.2	0.3304	0.3304	87.21	
PCB-166 (C128)	40:49	3708716	1.27	0.9829	87.2	87.2	0.3304	0.3304	87.21	
PCB-159	41:49	2642885	1.24	1.3856	44.1	44.1	0.2344	0.2344	88.18	
PCB-162	42:07	2421885	1.24	1.2571	44.5	44.5	0.2584	0.2584	89.06	
PCB-167	42:35	2217538	1.30	1.1159	46.3	46.3	0.2382	0.2382	92.70	
PCB-156	43:46	4495166	1.25	1.1104	94.3	94.3	0.3662	0.3662	94.30	
PCB-157 (C156)	43:46	4495166	1.25	1.1104	94.3	94.3	0.3662	0.3662	94.30	
PCB-169	46:58	2425978	1.27	1.1628	47.1	47.1	0.2366	0.2366	94.16	
S Total Heptachlorobiphenyls					1131.8	1131.8	0.0497	0.0497		
D PCB-188L	36:58	3279824	1.07	1.3133	77.0	77.0	0.0175	0.0175	76.96	
\$ PCB-178L	40:01	2327402	1.08	1.0313	69.5	69.5	0.0223	0.0223	69.54	
* PCB-180L	45:06	3245036	1.05		100.0	100.0				
D PCB-170L	46:22	2321942	1.08	0.8362	85.6	85.6	0.0275	0.0275	85.57	
D PCB-189L	49:28	5332070	1.07	1.4414	85.7	85.7	0.3047	0.3047	85.72	
PCB-188	36:59	1729143	1.07	1.1350	46.5	46.5	0.0363	0.0363	92.90	
PCB-179	37:21	1737083	1.08	1.4276	43.4	43.4	0.0342	0.0342	86.89	
PCB-184	37:51	1723496	1.01	1.3672	45.0	45.0	0.0357	0.0357	90.02	
PCB-176	38:13	1546506	1.09	1.2331	44.8	44.8	0.0395	0.0395	89.56	
PCB-186	38:40	1895524	1.02	1.4737	45.9	45.9	0.0331	0.0331	91.84	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:03	1162274	1.05	0.8946	46.4	46.4	0.0545	0.0545	92.77	
PCB-175	40:40	1222999	1.06	0.9524	45.8	45.8	0.0512	0.0512	91.69	
PCB-187	40:57	1418493	1.07	1.1018	46.0	46.0	0.0443	0.0443	91.93	
PCB-182	41:08	1212585	1.04	0.9247	46.8	46.8	0.0527	0.0527	93.64	
PCB-183	41:33	2409788	1.08	0.9825	87.6	87.6	0.0496	0.0496	87.57	Ma
PCB-185 (C183)	41:33	2409788	1.08	0.9825	87.6	87.6	0.0496	0.0496	87.57	Ma
PCB-174	41:49	1268040	1.11	0.9642	47.0	47.0	0.0506	0.0506	93.91	
PCB-177	42:15	1293966	1.03	0.9773	47.3	47.3	0.0499	0.0499	94.55	
PCB-181	42:37	1249345	1.04	0.9505	46.9	46.9	0.0513	0.0513	93.85	
PCB-171	42:51	2366416	1.05	0.9336	90.5	90.5	0.0522	0.0522	90.49	
PCB-173 (C171)	42:51	2366416	1.05	0.9336	90.5	90.5	0.0522	0.0522	90.49	
PCB-172	44:29	1195600	1.01	0.8519	50.1	50.1	0.0572	0.0572	100	
PCB-192	44:44	1948482	1.05	1.3459	51.7	51.7	0.0362	0.0362	103	
PCB-180	45:05	3252772	1.06	1.1676	99.5	99.5	0.0418	0.0418	99.47	
PCB-193 (C180)	45:05	3252772	1.06	1.1676	99.5	99.5	0.0418	0.0418	99.47	
PCB-191	45:29	1950726	1.09	1.2891	54.0	54.0	0.0378	0.0378	108	
PCB-170	46:24	1246693	1.03	1.1865	45.3	45.3	0.0503	0.0503	90.50	
PCB-190	46:54	1968154	0.93	1.3322	52.7	52.7	0.0366	0.0366	105	
PCB-189	49:29	2498875	1.10	0.9633	48.6	48.6	0.1484	0.1484	97.30	
S Total Octachlorobiphenyls					586.4	586.4	0.1419	0.1419		
D PCB-202L	42:19	2512532	0.96	0.9818	78.9	78.9	0.0565	0.0565	78.86	
* PCB-194L	51:34	4315361	0.93		100.0	100.0				
D PCB-205L	52:02	4394391	0.91	1.1786	86.4	86.4	0.0864	0.0864	86.40	
PCB-202	42:21	1269311	0.93	1.0359	48.8	48.8	0.0833	0.0833	97.54	
PCB-201	43:16	1174025	0.86	0.9754	47.9	47.9	0.0884	0.0884	95.81	
PCB-204	43:56	1263456	0.91	1.0485	48.0	48.0	0.0823	0.0823	95.92	
PCB-197	44:10	1343750	0.93	1.1458	46.7	46.7	0.0753	0.0753	93.35	
PCB-200	44:17	1339819	0.96	1.0072	52.9	52.9	0.0856	0.0856	106	
PCB-198	47:03	2200552	0.93	0.8698	100.7	100.7	0.0992	0.0992	101	
PCB-199 (C198)	47:03	2200552	0.93	0.8698	100.7	100.7	0.0992	0.0992	101	
PCB-196	47:44	995928	0.89	0.7806	50.8	50.8	0.1105	0.1105	102	
PCB-203	47:54	1229468	0.91	0.9292	52.7	52.7	0.0928	0.0928	105	
PCB-195	49:15	1698009	0.90	0.8263	46.8	46.8	0.3236	0.3236	93.52	
PCB-194	51:35	1933702	0.88	0.9735	45.2	45.2	0.2746	0.2746	90.40	
PCB-205	52:03	2199672	0.89	1.0878	46.0	46.0	0.2458	0.2458	92.04	
S Total Nonachlorobiphenyls					135.4	135.4	0.4108	0.4108		
D PCB-208L	48:58	3565618	0.80	0.9576	86.3	86.3	0.1685	0.1685	86.28	
D PCB-206L	53:47	2636411	0.79	0.6947	87.9	87.9	0.2322	0.2322	87.94	
PCB-208	49:00	1900138	0.81	1.1374	46.9	46.9	0.3960	0.3960	93.70	
PCB-207	49:56	1927568	0.80	1.3756	45.2	45.2	0.3774	0.3774	90.37	
PCB-206	53:48	1526453	0.80	1.3346	43.4	43.4	0.4589	0.4589	86.77	
D PCB-209L	55:23	2754819	0.72	0.6669	95.7	95.7	0.0858	0.0858	95.73	
DCB Decachlorobiphenyl	55:25	1445204	0.69	1.1004	47.7	47.7	0.1170	0.1170	95.35	
S Polychlorinated biphenyls, Total					9559.2	9559.2	0.2604	0.2604		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d
 Lims ID: LCS 140-88193/19-B
 Client ID:
 Sample Type: LCS
 Inject. Date: 15-Jul-2024 13:44:00 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033504-002
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 15-Jul-2024 19:43:22 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:43:22

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-3	0.728	5054751	1959005	2026	5065	967		
202.0766	11:36	11:36	-3	0.728	1594459	624213	1223	3057	510	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:44	13:44	-3	0.862	4965818	1576603	2026	5065	778		
202.0766	13:44	13:44	-3	0.862	1564030	481358	1223	3057	394	3.18(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-3	1.001	2951456	1160979	1615	4037	719		
190.0363	11:36	11:37	-3	1.001	918802	365272	544	1360	671	3.21(2.66-3.60)	
PCB-2											
188.0393	13:35	13:35	-3	0.989	2762180	889535	1615	4037	551		
190.0363	13:35	13:35	-3	0.989	887678	285135	544	1360	524	3.11(2.66-3.60)	
PCB-3											
188.0393	13:45	13:46	-3	1.001	2857148	902382	1615	4037	559		
190.0363	13:45	13:46	-3	1.001	923826	286499	544	1360	527	3.09(2.66-3.60)	
PCB-4L											
234.0406	13:59	13:59	-3	0.878	1610695	506461	709	1772	714		
236.0376	14:00	13:59	-3	0.879	989887	311664	165	412	1889	1.63(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:59	-3		3478983	996918	709	1772	1406		
236.0376	15:56	15:59	-3		2134229	608892	165	412	3690	1.63(1.33-1.79)	
PCB-15L											
234.0406	19:50	19:49	-3	1.246	2671500	614409	709	1772	867		
236.0376	19:50	19:49	-3	1.246	1637761	373158	165	412	2262	1.63(1.33-1.79)	
PCB-4											
222.0003	14:01	14:01	-3	1.002	961749	311026	193	482	1612		
223.9974	14:01	14:01	-3	1.002	604189	191948	314	785	611	1.59(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:10	14:11	-3	1.013	1380611	456421	193	482	2365		
223.9974	14:10	14:11	-3	1.013	860154	280294	314	785	893	1.61(1.33-1.79)	
PCB-9											
222.0003	15:57	15:57	-3	1.141	1431532	412350	193	482	2137		
223.9974	15:57	15:57	-3	1.141	875883	253223	314	785	806	1.63(1.33-1.79)	
PCB-7											
222.0003	16:07	16:07	-3	1.152	1372045	401687	193	482	2081		
223.9974	16:07	16:07	-3	1.152	868148	250085	314	785	796	1.58(1.33-1.79)	
PCB-6											
222.0003	16:22	16:22	-3	1.170	1503888	420257	193	482	2177		
223.9974	16:22	16:22	-3	1.170	945389	262354	314	785	836	1.59(1.33-1.79)	
PCB-5											
222.0003	16:40	16:40	-3	1.192	1324940	374323	193	482	1939		
223.9974	16:40	16:40	-3	1.192	820022	236623	314	785	754	1.62(1.33-1.79)	
PCB-8											
222.0003	16:48	16:47	-3	1.201	1562200	409756	193	482	2123		
223.9974	16:47	16:47	-3	1.200	1000272	255941	314	785	815	1.56(1.33-1.79)	
PCB-14											
222.0003	18:23	18:25	-4	0.926	1495356	361125	193	482	1871		
223.9974	18:23	18:25	-4	0.926	964351	227718	314	785	725	1.55(1.33-1.79)	
PCB-11											
222.0003	19:14	19:15	-3	0.970	1364439	319048	193	482	1653		
223.9974	19:14	19:15	-3	0.970	854552	196377	314	785	625	1.60(1.33-1.79)	
PCB-12											
222.0003	19:32	19:33	-3	0.985	2765189	457792	193	482	2372		
223.9974	19:32	19:33	-3	0.985	1723730	286596	314	785	913	1.60(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:32	19:33	-3	0.985	2765189	457792	193	482	2372		
223.9974	19:32	19:33	-3	0.985	1723730	286596	314	785	913	1.60(1.33-1.79)	
PCB-15											
222.0003	19:51	19:52	-3	1.001	1653205	362997	193	482	1881		
223.9974	19:51	19:52	-3	1.001	1023857	222234	314	785	708	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:04	17:05	-3	0.841	833491	228515	878	2195	260		
269.9986	17:04	17:05	-3	0.841	806384	222994	481	1202	464	1.03(0.88-1.20)	
PCB-32L											
268.0016	20:18	20:21	-3		1989761	487843	878	2195	556		
269.9986	20:18	20:21	-3		1839489	451492	481	1202	939	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:34	22:36	-2		4778569	1128823	601	1502	1878		
269.9986	22:34	22:36	-2		4523441	1051404	353	882	2978	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:50	22:50	-2	1.012	3363072	748321	601	1502	1245		
269.9986	22:50	22:50	-2	1.012	3138742	699256	353	882	1981	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:51	26:50	-2	1.190	3097878	590640	601	1502	983		
269.9986	26:51	26:50	-2	1.190	2873143	547273	353	882	1550	1.08(0.88-1.20)	
PCB-19											
255.9613	17:06	17:05	-3	1.002	491221	138306	79	197	1751		
257.9584	17:06	17:05	-3	1.002	458091	126772	121	302	1048	1.07(0.88-1.20)	
PCB-18											
255.9613	18:53	18:52	-3	1.106	1415769	233326	79	197	2953		
257.9584	18:53	18:52	-3	1.106	1304083	210240	121	302	1738	1.09(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:53	18:52	-3	1.106	1415769	233326	79	197	2953		
257.9584	18:53	18:52	-3	1.106	1304083	210240	121	302	1738	1.09(0.88-1.20)	
PCB-17											
255.9613	19:21	19:20	-3	1.134	490816	121061	79	197	1532		
257.9584	19:21	19:20	-3	1.134	459923	114815	121	302	949	1.07(0.88-1.20)	
PCB-27											
255.9613	19:35	19:33	-2	1.147	737682	184802	79	197	2339		
257.9584	19:34	19:33	-3	1.146	675661	167531	121	302	1385	1.09(0.88-1.20)	
PCB-24											
255.9613	19:42	19:41	-3	1.154	663319	164152	79	197	2078		
257.9584	19:42	19:41	-3	1.154	664022	163224	121	302	1349	1.00(0.88-1.20)	
PCB-16											
255.9613	19:49	19:48	-3	1.161	462486	116959	79	197	1480		
257.9584	19:49	19:48	-3	1.161	444228	106476	121	302	880	1.04(0.88-1.20)	
PCB-32											
255.9613	20:20	20:18	-3	1.191	748666	188137	79	197	2381		
257.9584	20:20	20:18	-3	1.191	739536	182404	121	302	1507	1.01(0.88-1.20)	
PCB-34											
255.9613	21:34	21:32	-2	1.264	1637190	397992	1935	4837	206		
257.9584	21:34	21:32	-2	1.264	1560644	369479	1637	4092	226	1.05(0.88-1.20)	
PCB-23											
255.9613	21:43	21:41	-2	1.272	1591539	369152	1935	4837	191		
257.9584	21:43	21:41	-2	1.272	1529733	359182	1637	4092	219	1.04(0.88-1.20)	
PCB-26											
255.9613	22:02	22:01	-3	1.291	3161453	709643	1935	4837	367		
257.9584	22:02	22:01	-3	1.291	3018679	668144	1637	4092	408	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:02	22:01	-3	1.291	3161453	709643	1935	4837	367		
257.9584	22:02	22:01	-3	1.291	3018679	668144	1637	4092	408	1.05(0.88-1.20)	
PCB-25											
255.9613	22:16	22:16	-2	0.829	1840492	380805	1935	4837	197		
257.9584	22:16	22:16	-2	0.829	1745595	372514	1637	4092	228	1.05(0.88-1.20)	
PCB-31											
255.9613	22:34	22:36	-3	0.841	1691242	383744	1935	4837	198		
257.9584	22:34	22:36	-3	0.841	1585811	368312	1637	4092	225	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:53	22:54	-2	0.852	3349817	542314	1935	4837	280		
257.9584	22:53	22:54	-2	0.852	3183491	515036	1637	4092	315	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:53	22:54	-2	0.852	3349817	542314	1935	4837	280		
257.9584	22:53	22:54	-2	0.852	3183491	515036	1637	4092	315	1.05(0.88-1.20)	
PCB-21											
255.9613	23:03	23:03	-2	0.858	3053677	358729	1935	4837	185		M
257.9584	23:03	23:03	-2	0.858	2914561	348981	1637	4092	213	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:03	23:03	-2	0.858	3053677	358729	1935	4837	185		M
257.9584	23:03	23:03	-2	0.858	2914561	348981	1637	4092	213	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:30	23:32	-3	0.875	1742917	387080	1935	4837	200		
257.9584	23:30	23:32	-3	0.875	1624989	351244	1637	4092	215	1.07(0.88-1.20)	
PCB-36											
255.9613	25:03	25:03	-2	0.933	1541942	308562	1935	4837	159		
257.9584	25:03	25:03	-2	0.933	1470533	292595	1637	4092	179	1.05(0.88-1.20)	
PCB-39											
255.9613	25:24	25:25	-2	0.946	1658592	329378	1935	4837	170		
257.9584	25:24	25:25	-2	0.946	1555271	313147	1637	4092	191	1.07(0.88-1.20)	
PCB-38											
255.9613	25:59	25:59	-2	0.968	1490594	311579	1935	4837	161		
257.9584	25:59	25:59	-2	0.968	1442064	298860	1637	4092	183	1.03(0.88-1.20)	
PCB-35											
255.9613	26:27	26:28	-2	0.985	1710849	318842	1935	4837	165		
257.9584	26:27	26:28	-2	0.985	1603149	301174	1637	4092	184	1.07(0.88-1.20)	
PCB-37											
255.9613	26:52	26:52	-2	1.000	1627255	305139	1935	4837	158		
257.9584	26:52	26:52	-2	1.000	1555563	293685	1637	4092	179	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:09	20:09	-3	0.816	750838	183841	137	342	1342		
303.9597	20:09	20:09	-3	0.816	902995	228827	24	60	9534	0.83(0.65-0.89)	
PCB-52L											
301.9626	24:41	24:43	-2		2092532	469709	310	775	1515		
303.9597	24:41	24:43	-2		2660181	598703	320	800	1871	0.79(0.65-0.89)	
PCB-81L											
301.9626	33:35	33:33	-2	1.361	2069623	377811	310	775	1219		
303.9597	33:35	33:33	-2	1.361	2540461	472348	320	800	1476	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:07	-2	1.384	2205751	395334	310	775	1275		
303.9597	34:09	34:07	-2	1.384	2765787	487699	320	800	1524	0.80(0.65-0.89)	
PCB-54											
289.9224	20:10	20:12	-2	1.000	444919	111059	54	135	2057		
291.9194	20:09	20:12	-3	0.999	558976	136531	122	305	1119	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:19	22:17	-2	1.108	1464845	337692	816	2040	414		
291.9194	22:19	22:17	-2	1.108	1874812	432579	1002	2505	432	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:19	22:17	-2	1.108	1464845	337692	816	2040	414		
291.9194	22:19	22:17	-2	1.108	1874812	432579	1002	2505	432	0.78(0.65-0.89)	
PCB-45											
289.9224	23:03	23:03	-2	1.144	1466664	196648	816	2040	241		M
291.9194	23:03	23:03	-2	1.144	1936018	257207	1002	2505	257	0.76(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:03	23:03	-2	1.144	1466664	196648	816	2040	241		M
291.9194	23:03	23:03	-2	1.144	1936018	257207	1002	2505	257	0.76(0.65-0.89)	M
PCB-46											
289.9224	23:18	23:16	-2	1.157	631856	149737	816	2040	184		
291.9194	23:18	23:16	-2	1.157	797552	187108	1002	2505	187	0.79(0.65-0.89)	
PCB-52											
289.9224	24:42	24:40	-2	1.226	848942	201052	816	2040	246		
291.9194	24:42	24:40	-2	1.226	1032037	244889	1002	2505	244	0.82(0.65-0.89)	
PCB-43											
289.9224	24:50	24:50	-2	1.233	1956839	262341	816	2040	321		M
291.9194	24:50	24:50	-2	1.233	2481840	326322	1002	2505	326	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:50	24:50	-2	1.233	1956839	262341	816	2040	321		M
291.9194	24:50	24:50	-2	1.233	2481840	326322	1002	2505	326	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:07	25:05	-2	1.247	1931717	265003	816	2040	325		
291.9194	25:07	25:05	-2	1.247	2486184	341228	1002	2505	341	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:07	25:05	-2	1.247	1931717	265003	816	2040	325		
291.9194	25:07	25:05	-2	1.247	2486184	341228	1002	2505	341	0.78(0.65-0.89)	
PCB-48											
289.9224	25:28	25:26	-2	1.264	769564	167594	816	2040	205		
291.9194	25:28	25:26	-2	1.264	985166	218319	1002	2505	218	0.78(0.65-0.89)	
PCB-44											
289.9224	25:42	25:40	-2	1.276	2639113	508199	816	2040	623		
291.9194	25:42	25:40	-2	1.276	3333504	653722	1002	2505	652	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:42	25:40	-2	1.276	2639113	508199	816	2040	623		
291.9194	25:42	25:40	-2	1.276	3333504	653722	1002	2505	652	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:42	25:40	-2	1.276	2639113	508199	816	2040	623		
291.9194	25:42	25:40	-2	1.276	3333504	653722	1002	2505	652	0.79(0.65-0.89)	
PCB-59											
289.9224	26:01	25:58	-2	1.291	3107073	468396	816	2040	574		
291.9194	26:01	25:58	-2	1.291	3929346	609924	1002	2505	609	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:01	25:58	-2	1.291	3107073	468396	816	2040	574		
291.9194	26:01	25:58	-2	1.291	3929346	609924	1002	2505	609	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:01	25:58	-2	1.291	3107073	468396	816	2040	574		
291.9194	26:01	25:58	-2	1.291	3929346	609924	1002	2505	609	0.79(0.65-0.89)	
PCB-42											
289.9224	26:13	26:11	-2	1.301	783372	172356	816	2040	211		
291.9194	26:13	26:11	-2	1.301	973095	211132	1002	2505	211	0.81(0.65-0.89)	
PCB-40											
289.9224	26:43	26:41	-2	1.326	2404893	377054	816	2040	462		
291.9194	26:43	26:41	-2	1.326	3084282	483922	1002	2505	483	0.78(0.65-0.89)	
PCB-41 (C40)											
289.9224	26:43	26:41	-2	1.326	2404893	377054	816	2040	462		
291.9194	26:43	26:41	-2	1.326	3084282	483922	1002	2505	483	0.78(0.65-0.89)	
PCB-71 (C40)											
289.9224	26:43	26:41	-2	1.326	2404893	377054	816	2040	462		
291.9194	26:43	26:41	-2	1.326	3084282	483922	1002	2505	483	0.78(0.65-0.89)	
PCB-64											
289.9224	26:55	26:53	-2	1.336	1093065	232524	816	2040	285		
291.9194	26:56	26:53	-2	1.337	1374626	280131	1002	2505	280	0.80(0.65-0.89)	
PCB-72											
289.9224	27:45	27:46	-2	0.826	1025005	220559	816	2040	270		
291.9194	27:45	27:46	-2	0.826	1275810	273608	1002	2505	273	0.80(0.65-0.89)	
PCB-68											
289.9224	28:02	28:02	-2	0.834	1206907	240309	816	2040	294		
291.9194	28:02	28:02	-2	0.834	1487129	299468	1002	2505	299	0.81(0.65-0.89)	
PCB-57											
289.9224	28:27	28:28	-2	0.847	1032400	217757	816	2040	267		
291.9194	28:27	28:28	-2	0.847	1343372	284799	1002	2505	284	0.77(0.65-0.89)	
PCB-58											
289.9224	28:41	28:42	-2	0.854	1326848	269303	816	2040	330		
291.9194	28:41	28:42	-2	0.854	1731474	340459	1002	2505	340	0.77(0.65-0.89)	
PCB-67											
289.9224	28:51	28:51	-2	0.859	1323075	267997	816	2040	328		
291.9194	28:51	28:51	-2	0.859	1614713	318253	1002	2505	318	0.82(0.65-0.89)	
PCB-63											
289.9224	29:07	29:07	-2	0.867	1053720	205458	816	2040	252		
291.9194	29:07	29:07	-2	0.867	1337573	262299	1002	2505	262	0.79(0.65-0.89)	
PCB-61											
289.9224	29:28	29:28	-2	0.877	4711803	567216	816	2040	695		
291.9194	29:28	29:28	-2	0.877	5934395	714984	1002	2505	714	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:28	29:28	-2	0.877	4711803	567216	816	2040	695		
291.9194	29:28	29:28	-2	0.877	5934395	714984	1002	2505	714	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:28	29:28	-2	0.877	4711803	567216	816	2040	695		
291.9194	29:28	29:28	-2	0.877	5934395	714984	1002	2505	714	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:28	29:28	-2	0.877	4711803	567216	816	2040	695		
291.9194	29:28	29:28	-2	0.877	5934395	714984	1002	2505	714	0.79(0.65-0.89)	
PCB-66											
289.9224	29:47	29:47	-2	0.887	1295299	250256	816	2040	307		
291.9194	29:47	29:47	-2	0.887	1603388	308303	1002	2505	308	0.81(0.65-0.89)	
PCB-55											
289.9224	29:57	29:57	-2	0.892	1308070	263201	816	2040	323		
291.9194	29:57	29:57	-2	0.892	1696329	341975	1002	2505	341	0.77(0.65-0.89)	
PCB-56											
289.9224	30:28	30:28	-2	0.907	1219991	246318	816	2040	302		
291.9194	30:28	30:28	-2	0.907	1565403	312855	1002	2505	312	0.78(0.65-0.89)	
PCB-60											
289.9224	30:40	30:40	-2	0.913	1049353	210879	816	2040	258		
291.9194	30:40	30:40	-2	0.913	1345058	264869	1002	2505	264	0.78(0.65-0.89)	
PCB-80											
289.9224	31:04	31:04	-2	0.925	1298382	263183	816	2040	323		
291.9194	31:04	31:04	-2	0.925	1616727	323307	1002	2505	323	0.80(0.65-0.89)	
PCB-79											
289.9224	32:36	32:36	-2	0.971	1333978	239970	816	2040	294		
291.9194	32:36	32:36	-2	0.971	1679915	297595	1002	2505	297	0.79(0.65-0.89)	
PCB-78											
289.9224	33:10	33:10	-2	0.987	1171701	208491	816	2040	256		
291.9194	33:09	33:10	-2	0.987	1468677	263703	1002	2505	263	0.80(0.65-0.89)	
PCB-81											
289.9224	33:36	33:36	-2	1.000	1021276	191050	816	2040	234		
291.9194	33:36	33:36	-2	1.000	1244743	232401	1002	2505	232	0.82(0.65-0.89)	
PCB-77											
289.9224	34:10	34:11	-2	1.001	1058689	187798	816	2040	230		
291.9194	34:10	34:11	-2	1.001	1336447	240967	1002	2505	240	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:36	25:37	-2	0.813	1842499	411636	242	605	1701		
339.9178	25:36	25:37	-2	0.813	1169677	265187	49	122	5412	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:29	31:31	-2		2067091	426204	242	605	1761		
339.9178	31:29	31:31	-2		1273213	270642	49	122	5523	1.62(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:09	-2	1.085	2024863	401301	242	605	1658		
339.9178	34:10	34:09	-2	1.085	1281962	251410	49	122	5131	1.58(1.32-1.78)	
PCB-123L											
337.9207	36:07	36:07	-2	1.147	2861365	556128	2391	5977	233		
339.9178	36:07	36:07	-2	1.147	1787883	355924	1910	4775	186	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:27	36:27	-2	1.158	3086066	600853	2391	5977	251		
339.9178	36:27	36:27	-2	1.158	1870659	370609	1910	4775	194	1.65(1.32-1.78)	
PCB-114L											
337.9207	36:59	36:58	-2	1.174	2972296	592773	2391	5977	248		
339.9178	36:59	36:58	-2	1.174	1865603	367668	1910	4775	192	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:39	37:37	-1	1.196	3032272	582709	2391	5977	244		
339.9178	37:39	37:37	-1	1.196	1886239	363658	1910	4775	190	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-1		3739501	707938	2391	5977	296		
339.9178	39:06	39:07	-1		2341702	440622	1910	4775	231	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:42	-2	1.293	2953787	540588	2391	5977	226		
339.9178	40:43	40:42	-2	1.293	1864536	334455	1910	4775	175	1.58(1.32-1.78)	
PCB-104											
325.8804	25:38	25:37	-2	1.001	868916	190798	198	495	964		
327.8775	25:38	25:37	-2	1.001	545956	121834	68	170	1792	1.59(1.32-1.78)	
PCB-96											
325.8804	26:01	26:01	-2	1.016	926773	204525	198	495	1033		
327.8775	26:01	26:01	-3	1.016	572719	120425	68	170	1771	1.62(1.32-1.78)	
PCB-103											
325.8804	27:55	27:54	-2	1.090	804769	173300	198	495	875		
327.8775	27:55	27:54	-2	1.090	474049	93538	68	170	1376	1.70(1.32-1.78)	
PCB-94											
325.8804	28:09	28:09	-2	1.100	627794	131536	198	495	664		
327.8775	28:09	28:09	-2	1.100	404357	82515	68	170	1213	1.55(1.32-1.78)	
PCB-95											
325.8804	28:36	28:35	-2	1.117	719028	159029	198	495	803		
327.8775	28:36	28:35	-2	1.117	452753	98682	68	170	1451	1.59(1.32-1.78)	
PCB-93											
325.8804	28:48	28:47	-2	1.125	1438666	245176	198	495	1238		
327.8775	28:48	28:47	-2	1.125	886921	149091	68	170	2193	1.62(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:48	28:47	-2	1.125	1438666	245176	198	495	1238		
327.8775	28:48	28:47	-2	1.125	886921	149091	68	170	2193	1.62(1.32-1.78)	
PCB-98											
325.8804	28:58	28:58	-2	1.131	1427214	169204	198	495	855		M
327.8775	28:58	28:58	-2	1.131	887180	109464	68	170	1610	1.61(1.32-1.78)	M
PCB-102 (C98)											
325.8804	28:58	28:58	-2	1.131	1427214	169204	198	495	855		M
327.8775	28:58	28:58	-2	1.131	887180	109464	68	170	1610	1.61(1.32-1.78)	M
PCB-88											
325.8804	29:27	29:26	-2	1.151	1389889	154400	198	495	780		
327.8775	29:27	29:26	-2	1.151	849978	92840	68	170	1365	1.64(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:27	29:26	-2	1.151	1389889	154400	198	495	780		
327.8775	29:27	29:26	-2	1.151	849978	92840	68	170	1365	1.64(1.32-1.78)	
PCB-84											
325.8804	29:42	29:41	-2	1.160	632129	131087	198	495	662		
327.8775	29:41	29:41	-2	1.160	418028	80307	68	170	1181	1.51(1.32-1.78)	
PCB-89											
325.8804	30:10	30:09	-2	1.178	680636	135731	198	495	686		
327.8775	30:10	30:09	-2	1.179	432646	93042	68	170	1368	1.57(1.32-1.78)	
PCB-121											
325.8804	30:33	30:31	-2	1.193	1146945	231182	198	495	1168		M
327.8775	30:33	30:31	-2	1.193	716907	144573	68	170	2126	1.60(1.32-1.78)	M
PCB-92											
325.8804	30:56	30:56	-2	0.857	782159	163582	198	495	826		M
327.8775	30:56	30:56	-2	0.857	491762	100715	68	170	1481	1.59(1.32-1.78)	M
PCB-90											
325.8804	31:29	31:28	-2	1.230	2593891	400592	198	495	2023		
327.8775	31:29	31:28	-2	1.230	1626024	249511	68	170	3669	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:29	31:28	-2	1.230	2593891	400592	198	495	2023		
327.8775	31:29	31:28	-2	1.230	1626024	249511	68	170	3669	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:29	31:28	-2	1.230	2593891	400592	198	495	2023		
327.8775	31:29	31:28	-2	1.230	1626024	249511	68	170	3669	1.60(1.32-1.78)	
PCB-83											
325.8804	32:05	32:04	-2	1.254	1568607	196045	198	495	990		
327.8775	32:05	32:04	-2	1.254	949586	126257	68	170	1857	1.65(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:05	32:04	-2	1.254	1568607	196045	198	495	990		
327.8775	32:05	32:04	-2	1.254	949586	126257	68	170	1857	1.65(1.32-1.78)	
PCB-112											
325.8804	32:13	32:11	-2	1.259	1259485	249081	198	495	1258		
327.8775	32:13	32:11	-2	1.259	821385	154920	68	170	2278	1.53(1.32-1.78)	
PCB-86											
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:35	32:35	-2	1.273	5629189	578234	198	495	2920		M
327.8775	32:35	32:35	-2	1.273	3561528	372313	68	170	5475	1.58(1.32-1.78)	M
PCB-85											
325.8804	33:18	33:16	-2	1.301	2795145	328445	198	495	1659		
327.8775	33:18	33:16	-2	1.301	1774840	208631	68	170	3068	1.57(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:18	33:16	-2	1.301	2795145	328445	198	495	1659		
327.8775	33:18	33:16	-2	1.301	1774840	208631	68	170	3068	1.57(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:18	33:16	-2	1.301	2795145	328445	198	495	1659		
327.8775	33:18	33:16	-2	1.301	1774840	208631	68	170	3068	1.57(1.32-1.78)	
PCB-110											
325.8804	33:30	33:29	-2	1.309	2198899	312270	198	495	1577		
327.8775	33:31	33:29	-2	1.310	1384823	198739	68	170	2923	1.59(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:30	33:29	-2	1.309	2198899	312270	198	495	1577		
327.8775	33:31	33:29	-2	1.310	1384823	198739	68	170	2923	1.59(1.32-1.78)	
PCB-82											
325.8804	33:49	33:48	-2	1.321	766725	141708	198	495	716		
327.8775	33:50	33:48	-2	1.322	486268	87416	68	170	1286	1.58(1.32-1.78)	
PCB-111											
325.8804	34:11	34:09	-2	1.335	1135822	223295	198	495	1128		
327.8775	34:11	34:09	-2	1.335	695429	134272	68	170	1975	1.63(1.32-1.78)	
PCB-120											
325.8804	34:39	34:37	-2	1.353	1366661	259228	198	495	1309		
327.8775	34:39	34:37	-2	1.353	858971	170562	68	170	2508	1.59(1.32-1.78)	
PCB-108											
325.8804	35:48	35:46	-2	1.398	2965254	563363	1684	4210	335		
327.8775	35:48	35:46	-2	1.398	1849677	346671	1328	3320	261	1.60(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:48	35:46	-2	1.398	2965254	563363	1684	4210	335		
327.8775	35:48	35:46	-2	1.398	1849677	346671	1328	3320	261	1.60(1.32-1.78)	
PCB-107											
325.8804	36:02	36:00	-2	1.408	1569185	293200	1684	4210	174		
327.8775	36:02	36:00	-2	1.408	990046	181987	1328	3320	137	1.58(1.32-1.78)	
PCB-123											Ma
325.8804	36:09	36:09	-2	1.001	1422621	269358	1684	4210	160		M
327.8775	36:09	36:09	-2	1.001	904957	177615	1328	3320	134	1.57(1.32-1.78)	
PCB-106											Ma
325.8804	36:16	36:16	-2	1.004	1452631	295807	1684	4210	176		M
327.8775	36:16	36:16	-2	1.004	871771	179352	1328	3320	135	1.67(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:29	36:29	-2	1.001	1601319	316782	1684	4210	188		
327.8775	36:29	36:29	-2	1.001	1062706	195140	1328	3320	147	1.51(1.32-1.78)	
PCB-122											
325.8804	36:50	36:50	-2	1.010	1355195	266659	1684	4210	158		
327.8775	36:50	36:50	-2	1.010	835155	167569	1328	3320	126	1.62(1.32-1.78)	
PCB-114											
325.8804	37:00	37:00	-2	1.001	1471719	259998	1684	4210	154		
327.8775	37:00	37:00	-2	1.001	952731	164904	1328	3320	124	1.54(1.32-1.78)	
PCB-105											
325.8804	37:40	37:40	-1	1.001	1674009	303041	1684	4210	180		
327.8775	37:40	37:40	-1	1.001	1060128	188105	1328	3320	142	1.58(1.32-1.78)	
PCB-127											
325.8804	39:07	39:07	-2	1.039	1525767	286769	1684	4210	170		
327.8775	39:08	39:07	-1	1.039	973608	177175	1328	3320	133	1.57(1.32-1.78)	
PCB-126											
325.8804	40:45	40:44	-1	1.001	1525119	256057	1684	4210	152		
327.8775	40:45	40:44	-1	1.001	966631	162244	1328	3320	122	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:14	31:14	-2	0.789	1503580	307549	49	122	6277		
373.8788	31:14	31:14	-2	0.789	1175967	247871	54	135	4590	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:34	39:36	-2		2340051	460681	745	1862	618		
373.8788	39:34	39:36	-2		1789742	363023	799	1997	454	1.31(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:32	-1	1.076	2397237	454517	745	1862	610		
373.8788	42:34	42:32	-1	1.076	1890255	362726	799	1997	454	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:44	43:42	-1	1.105	4840816	606796	745	1862	814		
373.8788	43:44	43:42	0	1.106	3745154	461412	799	1997	577	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:44	43:42	-1	1.105	4840816	606796	745	1862	814		
373.8788	43:44	43:42	0	1.106	3745154	461412	799	1997	577	1.29(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:55	-1	1.187	2490285	446053	745	1862	599		
373.8788	46:58	46:55	0	1.187	1941112	343557	799	1997	430	1.28(1.05-1.43)	
PCB-155											
359.8415	31:16	31:15	-2	1.001	688789	143981	63	157	2285		
361.8385	31:16	31:15	-2	1.001	531016	110900	67	167	1655	1.30(1.05-1.43)	
PCB-152											
359.8415	31:29	31:29	-2	1.008	733954	152133	63	157	2415		
361.8385	31:29	31:29	-2	1.008	558113	124846	67	167	1863	1.32(1.05-1.43)	
PCB-150											
359.8415	31:39	31:39	-2	1.013	763382	154589	63	157	2454		
361.8385	31:39	31:39	-2	1.013	595725	120579	67	167	1800	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:02	32:02	-2	1.025	776696	155534	63	157	2469		
361.8385	32:02	32:02	-2	1.026	591662	117933	67	167	1760	1.31(1.05-1.43)	
PCB-145											
359.8415	32:18	32:18	-2	1.034	728547	145024	63	157	2302		
361.8385	32:18	32:18	-2	1.034	589034	120347	67	167	1796	1.24(1.05-1.43)	
PCB-148											
359.8415	33:48	33:48	-2	1.082	549038	107718	63	157	1710		
361.8385	33:48	33:48	-2	1.082	436344	87552	67	167	1307	1.26(1.05-1.43)	
PCB-135											
359.8415	34:25	34:25	-1	1.102	1122642	126402	63	157	2006		M
361.8385	34:24	34:25	-2	1.101	915196	104027	67	167	1553	1.23(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:25	34:25	-1	1.102	1122642	126402	63	157	2006		M
361.8385	34:24	34:25	-2	1.101	915196	104027	67	167	1553	1.23(1.05-1.43)	M
PCB-154											
359.8415	34:39	34:38	-2	1.109	625268	123047	63	157	1953		
361.8385	34:39	34:38	-2	1.109	472586	95855	67	167	1431	1.32(1.05-1.43)	
PCB-144											
359.8415	34:58	34:57	-2	1.119	593432	113900	63	157	1808		
361.8385	34:58	34:57	-2	1.119	480371	91866	67	167	1371	1.24(1.05-1.43)	
PCB-147											
359.8415	35:20	35:20	-2	1.131	1922536	366895	512	1280	717		
361.8385	35:20	35:20	-2	1.131	1555954	286396	357	892	802	1.24(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:20	35:20	-2	1.131	1922536	366895	512	1280	717		
361.8385	35:20	35:20	-2	1.131	1555954	286396	357	892	802	1.24(1.05-1.43)	
PCB-134											
359.8415	35:38	35:38	-2	1.141	1667968	178752	512	1280	349		
361.8385	35:38	35:38	-2	1.141	1309054	148519	357	892	416	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:38	35:38	-2	1.141	1667968	178752	512	1280	349		
361.8385	35:38	35:38	-2	1.141	1309054	148519	357	892	416	1.27(1.05-1.43)	
PCB-139											
359.8415	35:56	35:55	-2	1.150	1849031	319230	512	1280	623		
361.8385	35:56	35:55	-2	1.150	1432121	248614	357	892	696	1.29(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:56	35:55	-2	1.150	1849031	319230	512	1280	623		
361.8385	35:56	35:55	-2	1.150	1432121	248614	357	892	696	1.29(1.05-1.43)	
PCB-131											
359.8415	36:08	36:08	-2	1.157	753005	156572	512	1280	306		
361.8385	36:08	36:08	-2	1.157	619666	128024	357	892	359	1.22(1.05-1.43)	
PCB-142											
359.8415	36:17	36:16	-2	1.162	843658	169981	512	1280	332		
361.8385	36:17	36:16	-2	1.162	627946	128050	357	892	359	1.34(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:36	36:36	-2	1.172	799221	151135	512	1280	295		
361.8385	36:36	36:36	-2	1.172	616749	125222	357	892	351	1.30(1.05-1.43)	
PCB-133											
359.8415	37:06	37:04	-1	1.188	801040	153475	512	1280	300		
361.8385	37:05	37:04	-2	1.187	662648	130262	357	892	365	1.21(1.05-1.43)	
PCB-165											
359.8415	37:29	37:30	-1	0.881	1099721	217018	512	1280	424		
361.8385	37:29	37:30	-2	0.881	871963	168162	357	892	471	1.26(1.05-1.43)	
PCB-146											
359.8415	37:43	37:44	-2	0.886	987720	194418	512	1280	380		
361.8385	37:43	37:44	-2	0.886	802707	166483	357	892	466	1.23(1.05-1.43)	
PCB-161											
359.8415	37:51	37:52	-1	0.889	1166010	223814	512	1280	437		
361.8385	37:51	37:52	-1	0.889	949895	187511	357	892	525	1.23(1.05-1.43)	
PCB-153											
359.8415	38:22	38:22	-1	0.902	2278396	334714	512	1280	654		
361.8385	38:21	38:22	-2	0.901	1854193	267777	357	892	750	1.23(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:22	38:22	-1	0.902	2278396	334714	512	1280	654		
361.8385	38:21	38:22	-2	0.901	1854193	267777	357	892	750	1.23(1.05-1.43)	
PCB-141											
359.8415	38:32	38:33	-2	0.906	919338	166876	512	1280	326		
361.8385	38:32	38:33	-2	0.906	707651	131276	357	892	368	1.30(1.05-1.43)	
PCB-130											
359.8415	38:58	38:58	-1	0.915	722209	137147	512	1280	268		
361.8385	38:58	38:58	-1	0.915	574027	111547	357	892	312	1.26(1.05-1.43)	
PCB-137											
359.8415	39:10	39:10	-1	0.920	886891	171873	512	1280	336		
361.8385	39:10	39:10	-1	0.920	694903	133802	357	892	375	1.28(1.05-1.43)	
PCB-164											
359.8415	39:18	39:18	-1	0.923	1151892	229320	512	1280	448		
361.8385	39:18	39:18	-1	0.923	909415	183586	357	892	514	1.27(1.05-1.43)	
PCB-129											
359.8415	39:36	39:36	-1	0.931	4056010	448890	512	1280	877		M
361.8385	39:36	39:36	-1	0.931	3193715	354924	357	892	994	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:36	39:36	-1	0.931	4056010	448890	512	1280	877		M
361.8385	39:36	39:36	-1	0.931	3193715	354924	357	892	994	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:36	39:36	-1	0.931	4056010	448890	512	1280	877		M
361.8385	39:36	39:36	-1	0.931	3193715	354924	357	892	994	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:36	39:36	-1	0.931	4056010	448890	512	1280	877		M
361.8385	39:36	39:36	-1	0.931	3193715	354924	357	892	994	1.27(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:58	39:59	-2	0.939	1375926	260007	512	1280	508		
361.8385	39:59	39:59	-1	0.939	1090029	211204	357	892	592	1.26(1.05-1.43)	
PCB-128											
359.8415	40:49	40:50	-2	0.959	2076541	266520	512	1280	521		
361.8385	40:49	40:50	-3	0.959	1632175	205186	357	892	575	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:49	40:50	-2	0.959	2076541	266520	512	1280	521		
361.8385	40:49	40:50	-3	0.959	1632175	205186	357	892	575	1.27(1.05-1.43)	
PCB-159											
359.8415	41:49	41:49	-1	0.983	1463931	274891	512	1280	537		
361.8385	41:49	41:49	-1	0.983	1178954	223376	357	892	626	1.24(1.05-1.43)	
PCB-162											
359.8415	42:07	42:07	-1	0.990	1342399	237377	512	1280	464		
361.8385	42:07	42:07	-1	0.990	1079486	194119	357	892	544	1.24(1.05-1.43)	
PCB-167											
359.8415	42:35	42:35	-1	1.001	1255137	232836	512	1280	455		
361.8385	42:35	42:35	-1	1.001	962401	173163	357	892	485	1.30(1.05-1.43)	
PCB-156											
359.8415	43:46	43:45	0	1.001	2493422	309326	512	1280	604		
361.8385	43:46	43:45	0	1.001	2001744	247332	357	892	693	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:46	43:45	0	1.001	2493422	309326	512	1280	604		
361.8385	43:46	43:45	0	1.001	2001744	247332	357	892	693	1.25(1.05-1.43)	
PCB-169											
359.8415	46:58	46:58	-1	1.001	1357962	229763	512	1280	449		
361.8385	46:58	46:58	-1	1.001	1068016	182369	357	892	511	1.27(1.05-1.43)	
PCB-188L											
405.8428	36:58	36:57	-1	0.820	1697385	331120	40	100	8278		
407.8398	36:58	36:57	-1	0.820	1582439	304237	18	45	16902	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:01	-1	0.888	1206307	233593	40	100	5840		
407.8398	40:01	40:01	-1	0.888	1121095	222486	18	45	12360	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:06	45:07	-1		1663916	324939	40	100	8123		
407.8398	45:06	45:07	-1		1581120	306563	18	45	17031	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:22	46:21	-1	1.028	1207413	225501	40	100	5638		
407.8398	46:22	46:21	-1	1.028	1114529	213776	18	45	11876	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.097	2761642	519747	819	2047	635		
407.8398	49:28	49:27	-1	1.097	2570428	481904	599	1497	805	1.07(0.89-1.21)	
PCB-188											
393.8025	36:59	36:59	-1	1.001	893521	174996	45	112	3889		
395.7995	36:59	36:59	-1	1.001	835622	164955	60	150	2749	1.07(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											
393.8025	37:21	37:21	-2	1.010	900409	179387	45	112	3986		
395.7995	37:21	37:21	-2	1.010	836674	155672	60	150	2595	1.08(0.89-1.21)	
PCB-184											
393.8025	37:51	37:50	-1	1.024	866564	171492	45	112	3811		
395.7995	37:51	37:50	-1	1.024	856932	175355	60	150	2923	1.01(0.89-1.21)	
PCB-176											
393.8025	38:13	38:13	-2	1.034	805405	155725	45	112	3461		
395.7995	38:13	38:13	-2	1.034	741101	148024	60	150	2467	1.09(0.89-1.21)	
PCB-186											
393.8025	38:40	38:40	-2	1.046	958675	182703	45	112	4060		
395.7995	38:40	38:40	-2	1.046	936849	184657	60	150	3078	1.02(0.89-1.21)	
PCB-178											
393.8025	40:03	40:02	-1	1.084	594465	120306	45	112	2673		
395.7995	40:03	40:02	-1	1.084	567809	114576	60	150	1910	1.05(0.89-1.21)	
PCB-175											
393.8025	40:40	40:39	-1	1.100	628123	123075	45	112	2735		
395.7995	40:40	40:39	-1	1.100	594876	115881	60	150	1931	1.06(0.89-1.21)	
PCB-187											
393.8025	40:57	40:56	-1	1.108	732693	138057	45	112	3068		
395.7995	40:57	40:56	-1	1.108	685800	129831	60	150	2164	1.07(0.89-1.21)	
PCB-182											
393.8025	41:08	41:07	-1	1.113	617487	121053	45	112	2690		
395.7995	41:08	41:07	-1	1.113	595098	118906	60	150	1982	1.04(0.89-1.21)	
PCB-183											
393.8025	41:33	41:33	-1	1.124	1252639	131979	45	112	2933		Ma
395.7995	41:33	41:33	-1	1.124	1157149	118084	60	150	1968	1.08(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:33	41:33	-1	1.124	1252639	131979	45	112	2933		Ma
395.7995	41:33	41:33	-1	1.124	1157149	118084	60	150	1968	1.08(0.89-1.21)	M
PCB-174											
393.8025	41:49	41:48	-1	1.131	666917	127374	45	112	2831		
395.7995	41:48	41:48	-2	1.131	601123	114616	60	150	1910	1.11(0.89-1.21)	
PCB-177											
393.8025	42:15	42:14	-1	1.143	655831	123023	45	112	2734		
395.7995	42:15	42:14	-1	1.143	638135	119869	60	150	1998	1.03(0.89-1.21)	
PCB-181											
393.8025	42:37	42:36	-1	1.153	636751	123577	45	112	2746		
395.7995	42:37	42:36	-1	1.153	612594	117922	60	150	1965	1.04(0.89-1.21)	
PCB-171											
393.8025	42:51	42:50	-1	1.159	1211897	224878	45	112	4997		
395.7995	42:51	42:50	-1	1.159	1154519	214686	60	150	3578	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:51	42:50	-1	1.159	1211897	224878	45	112	4997		
395.7995	42:51	42:50	-1	1.159	1154519	214686	60	150	3578	1.05(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:29	44:28	-1	0.899	600129	119052	45	112	2646		
395.7995	44:29	44:28	-1	0.899	595471	113337	60	150	1889	1.01(0.89-1.21)	
PCB-192											
393.8025	44:44	44:45	-2	0.905	997989	196483	45	112	4366		
395.7995	44:44	44:45	-2	0.905	950493	184944	60	150	3082	1.05(0.89-1.21)	
PCB-180											
393.8025	45:05	45:05	-2	0.911	1669959	235124	45	112	5225		
395.7995	45:05	45:05	-2	0.911	1582813	225550	60	150	3759	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:05	45:05	-2	0.911	1669959	235124	45	112	5225		
395.7995	45:05	45:05	-2	0.911	1582813	225550	60	150	3759	1.06(0.89-1.21)	
PCB-191											
393.8025	45:29	45:28	-1	0.919	1018359	192431	45	112	4276		
395.7995	45:29	45:28	-1	0.919	932367	183424	60	150	3057	1.09(0.89-1.21)	
PCB-170											
393.8025	46:24	46:23	-1	0.938	633308	123074	45	112	2735		
395.7995	46:24	46:23	-1	0.938	613385	117381	60	150	1956	1.03(0.89-1.21)	
PCB-190											
393.8025	46:54	46:54	-2	0.948	948298	171941	45	112	3821		
395.7995	46:54	46:54	-2	0.948	1019856	172824	60	150	2880	0.93(0.89-1.21)	
PCB-189											
393.8025	49:29	49:28	-1	1.001	1306175	241867	355	887	681		
395.7995	49:29	49:28	-1	1.001	1192700	223662	218	545	1026	1.10(0.89-1.21)	
PCB-202L											
439.8038	42:19	42:18	-1	0.821	1231699	242262	78	195	3106		
441.8008	42:19	42:18	-1	0.821	1280833	250474	62	155	4040	0.96(0.76-1.02)	
PCB-194L											
439.8038	51:34	51:35	-1		2074538	386939	151	377	2563		
441.8008	51:33	51:35	-2		2240823	420092	178	445	2360	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:00	-1	1.009	2095004	394228	151	377	2611		
441.8008	52:02	52:00	-1	1.009	2299387	434991	178	445	2444	0.91(0.76-1.02)	
PCB-202											
427.7635	42:21	42:20	-1	1.001	612644	121920	87	217	1401		
429.7606	42:21	42:20	-1	1.001	656667	128291	83	207	1546	0.93(0.76-1.02)	
PCB-201											
427.7635	43:16	43:15	-1	1.022	543299	99701	87	217	1146		
429.7606	43:15	43:15	-2	1.022	630726	118144	83	207	1423	0.86(0.76-1.02)	
PCB-204											
427.7635	43:56	43:55	-1	1.038	602622	115168	87	217	1324		
429.7606	43:56	43:55	-1	1.038	660834	125742	83	207	1515	0.91(0.76-1.02)	
PCB-197											
427.7635	44:10	44:09	-1	1.043	645781	130403	87	217	1499		
429.7606	44:09	44:09	-2	1.043	697969	139680	83	207	1683	0.93(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:17	44:17	-2	1.046	655044	120822	87	217	1389		
429.7606	44:17	44:17	-2	1.046	684775	132687	83	207	1599	0.96(0.76-1.02)	
PCB-198											
427.7635	47:03	47:02	-1	1.112	1059924	126047	87	217	1449		
429.7606	47:02	47:02	-2	1.111	1140628	140537	83	207	1693	0.93(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:03	47:02	-1	1.112	1059924	126047	87	217	1449		
429.7606	47:02	47:02	-2	1.111	1140628	140537	83	207	1693	0.93(0.76-1.02)	
PCB-196											
427.7635	47:44	47:43	0	0.917	468026	85697	87	217	985		
429.7606	47:43	47:43	-1	0.917	527902	103288	83	207	1244	0.89(0.76-1.02)	
PCB-203											
427.7635	47:54	47:55	-2	0.921	586278	108693	87	217	1249		
429.7606	47:55	47:55	-1	0.921	643190	123819	83	207	1492	0.91(0.76-1.02)	
PCB-195											
427.7635	49:15	49:15	-1	0.947	802964	154152	208	520	741		
429.7606	49:15	49:15	-1	0.947	895045	168038	679	1697	247	0.90(0.76-1.02)	
PCB-194											
427.7635	51:35	51:34	-1	0.991	906325	171378	208	520	824		
429.7606	51:35	51:34	-1	0.991	1027377	189084	679	1697	278	0.88(0.76-1.02)	
PCB-205											
427.7635	52:03	52:03	-1	1.000	1035655	191565	208	520	921		
429.7606	52:03	52:03	-1	1.000	1164017	214990	679	1697	317	0.89(0.76-1.02)	
PCB-208L											
473.7648	48:58	48:58	-2	0.950	1580189	306785	275	687	1116		
475.7619	48:58	48:58	-2	0.950	1985429	376932	246	615	1532	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:45	-1	1.043	1167644	228185	275	687	830		
475.7619	53:47	53:45	-1	1.043	1468767	274687	246	615	1117	0.79(0.65-0.89)	
PCB-208											
461.7246	49:00	48:59	-1	1.001	850689	158091	267	667	592		
463.7216	49:00	48:59	-1	1.001	1049449	194347	965	2412	201	0.81(0.65-0.89)	
PCB-207											
461.7246	49:56	49:54	0	1.020	857630	167040	267	667	626		
463.7216	49:56	49:54	0	1.020	1069938	209137	965	2412	217	0.80(0.65-0.89)	
PCB-206											
461.7246	53:48	53:48	-1	1.000	679117	131166	267	667	491		
463.7216	53:48	53:48	-1	1.000	847336	162001	965	2412	168	0.80(0.65-0.89)	
PCB-209L											
507.7258	55:23	55:22	-1	1.074	1152936	212196	80	200	2652		
509.7229	55:23	55:22	-1	1.074	1601883	298205	105	262	2840	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:23	0	1.000	592165	105896	144	360	735		
497.6826	55:25	55:23	0	1.000	853039	154362	119	297	1297	0.69(0.59-0.79)	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

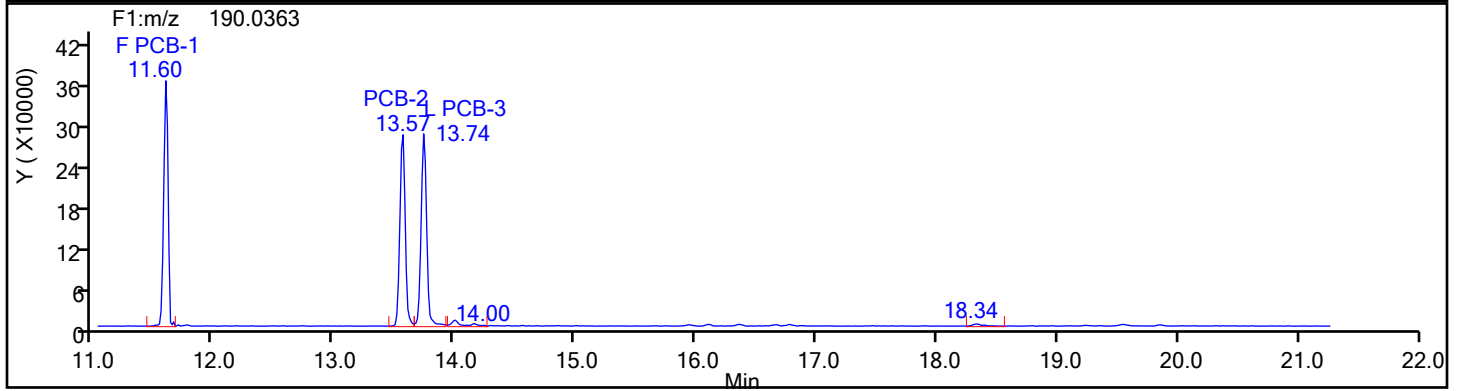
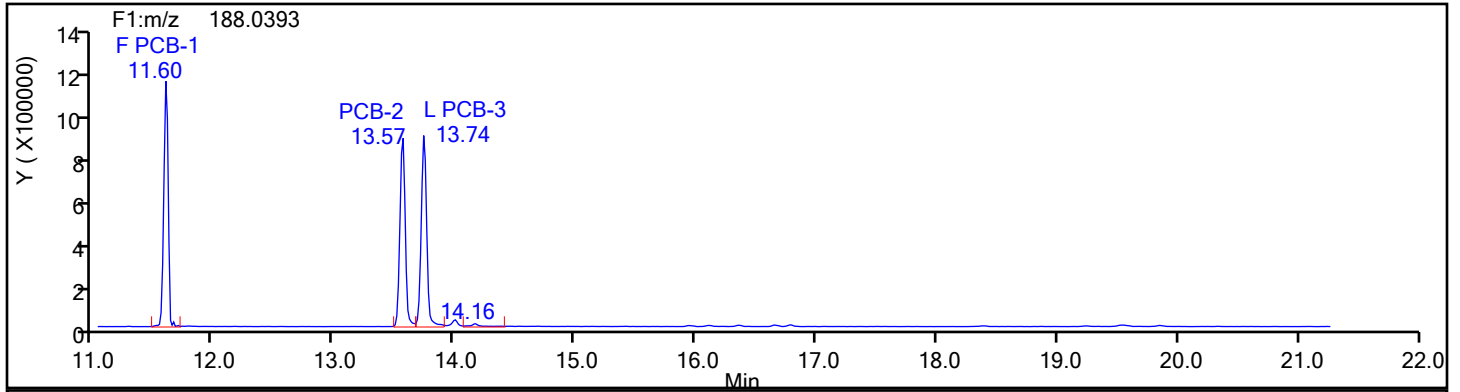
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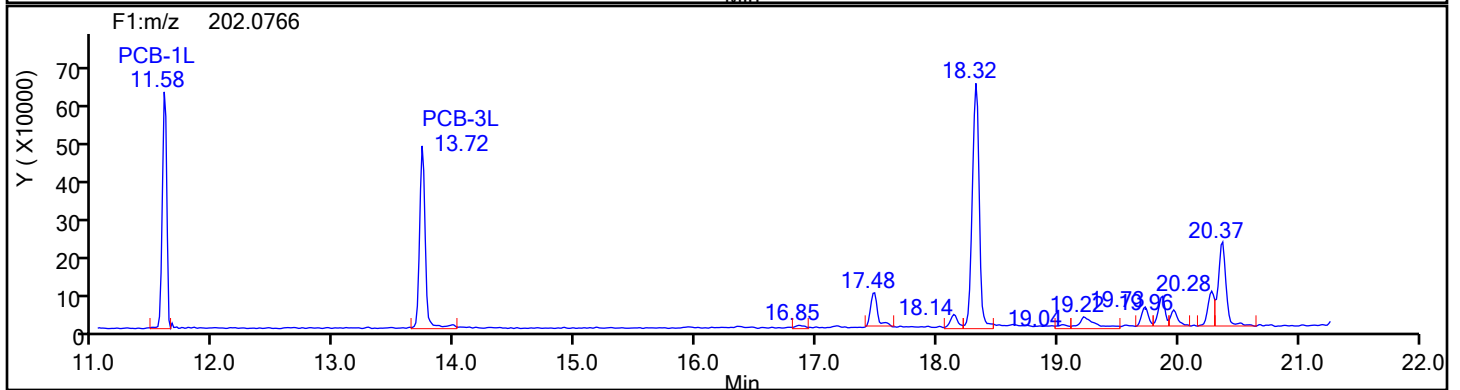
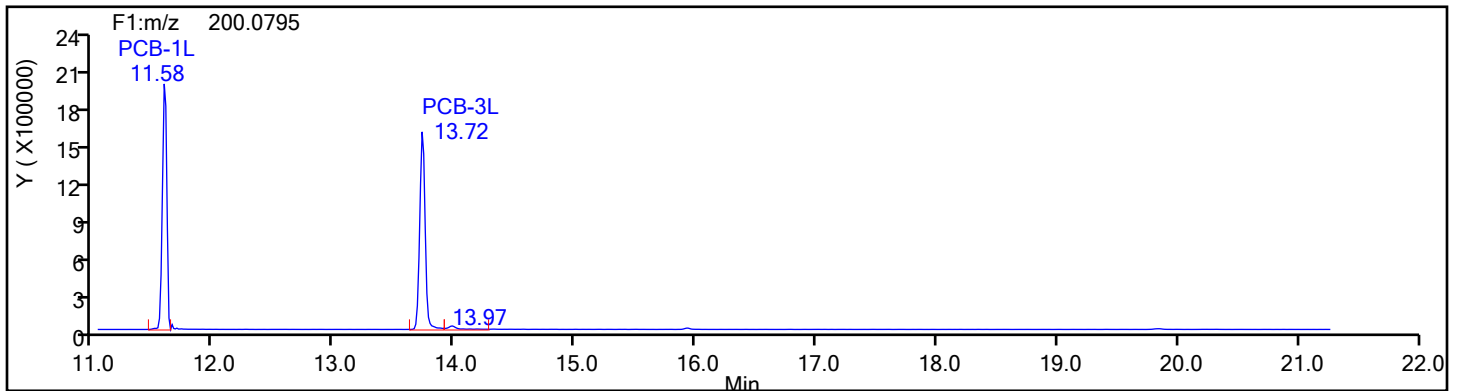
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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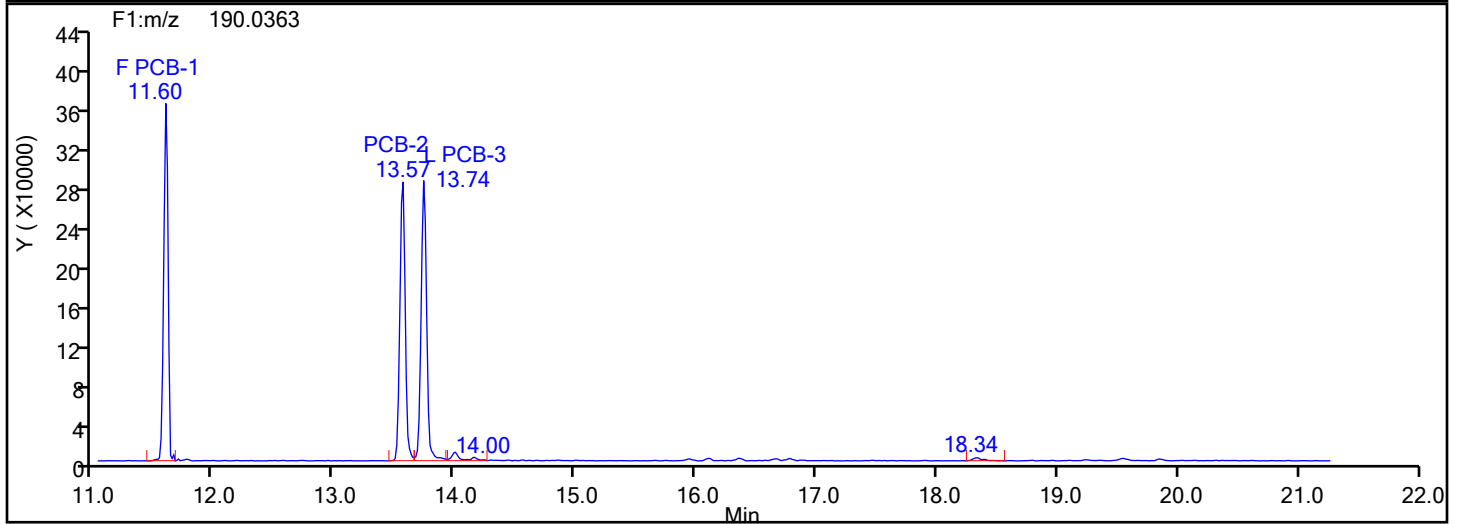
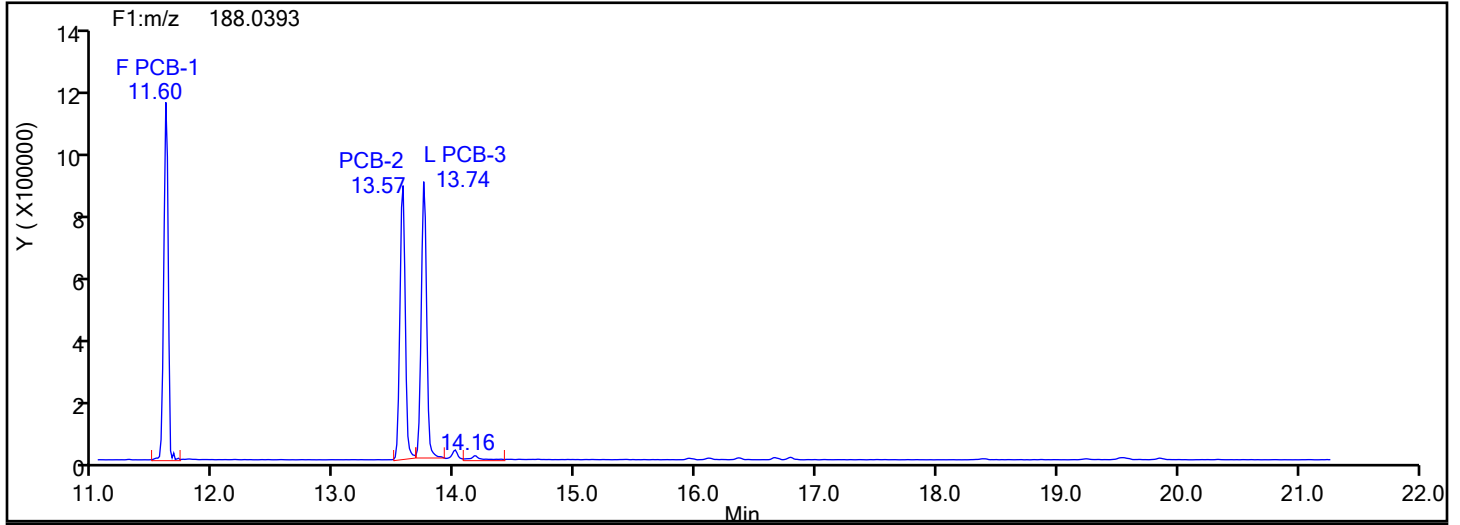
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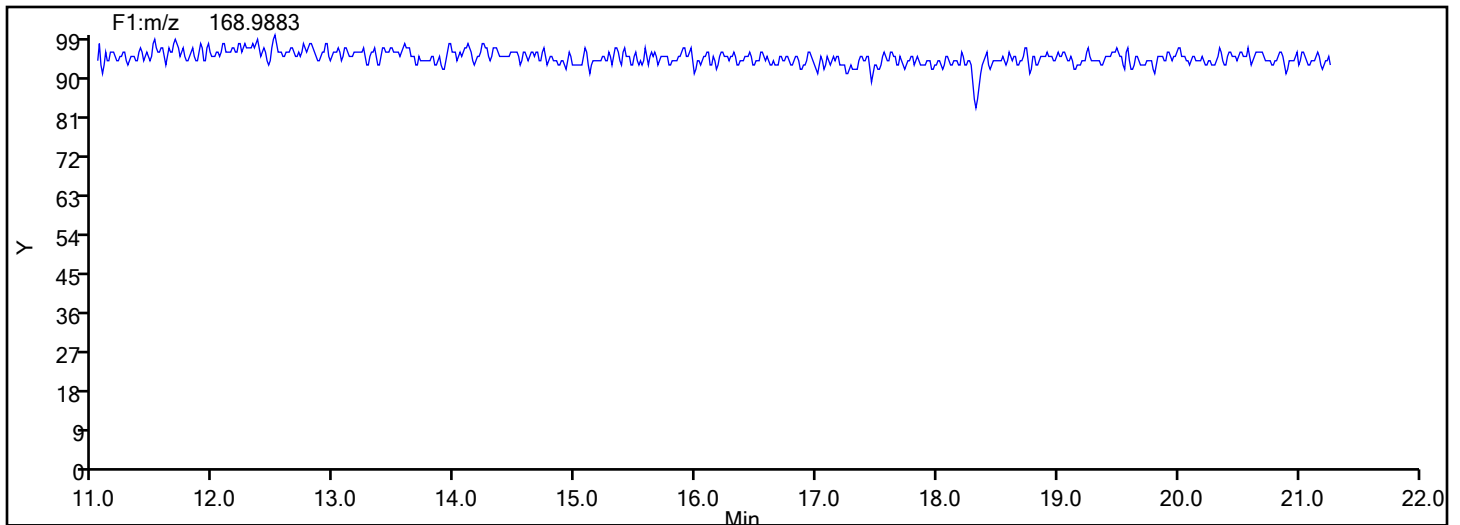
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

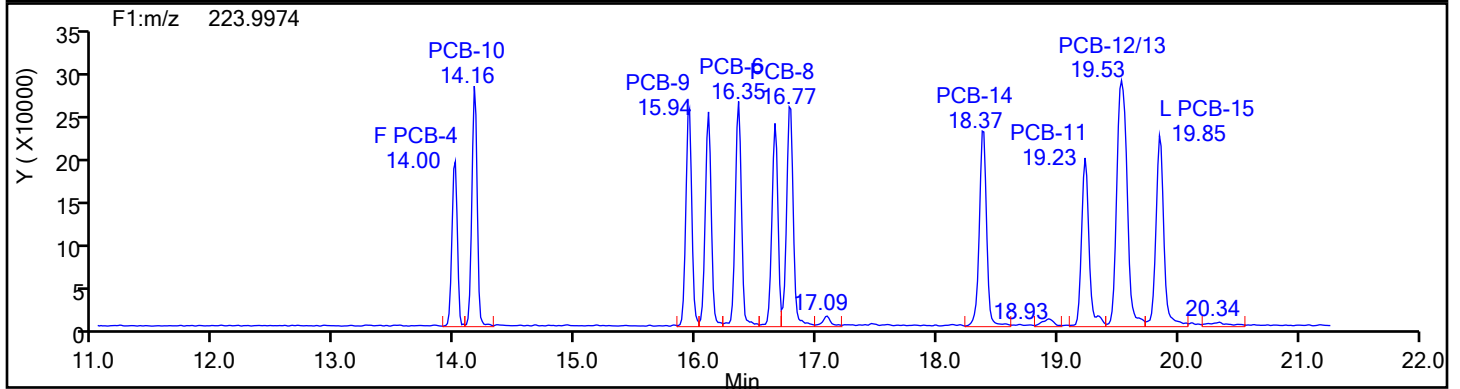
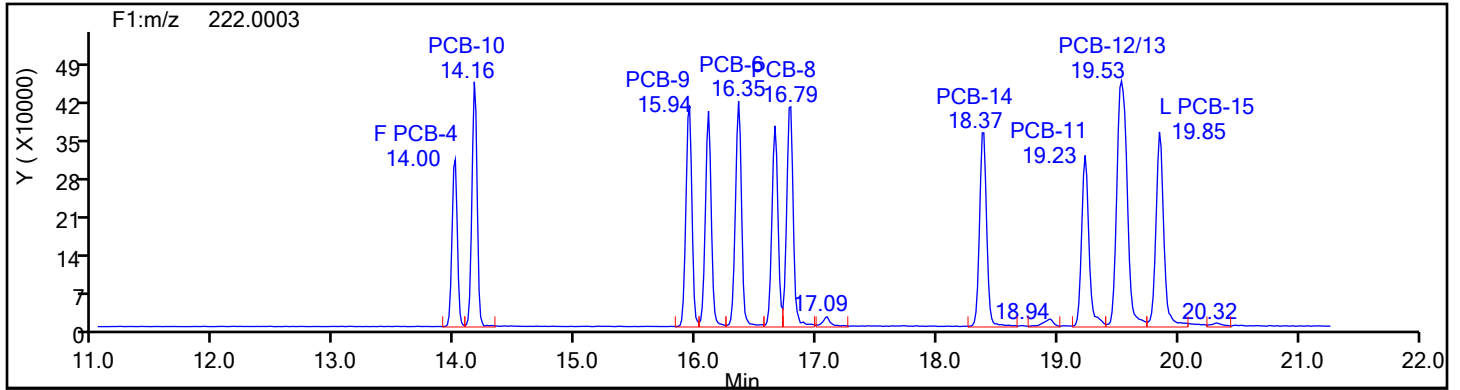
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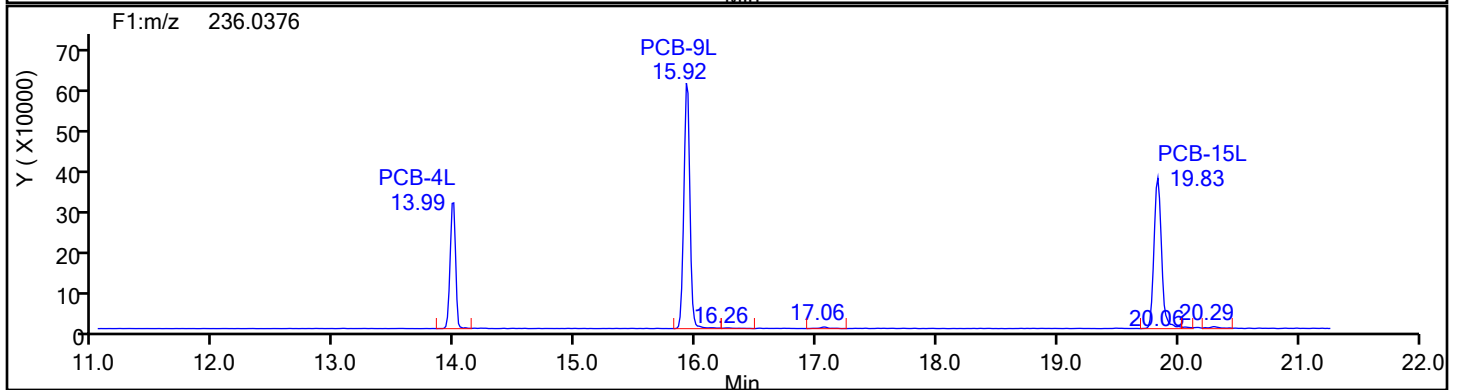
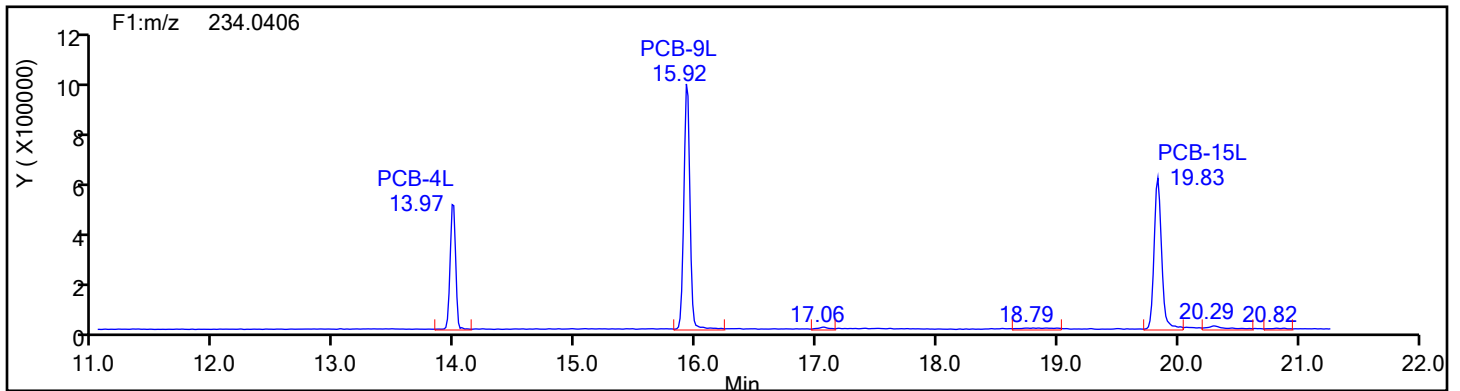
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

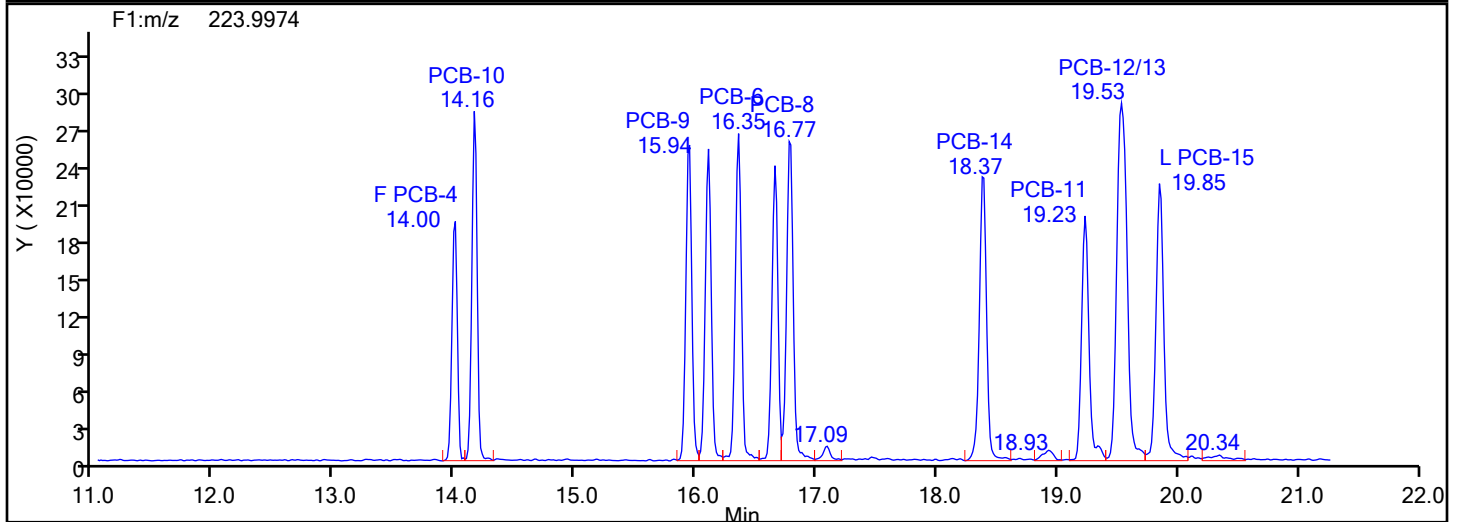
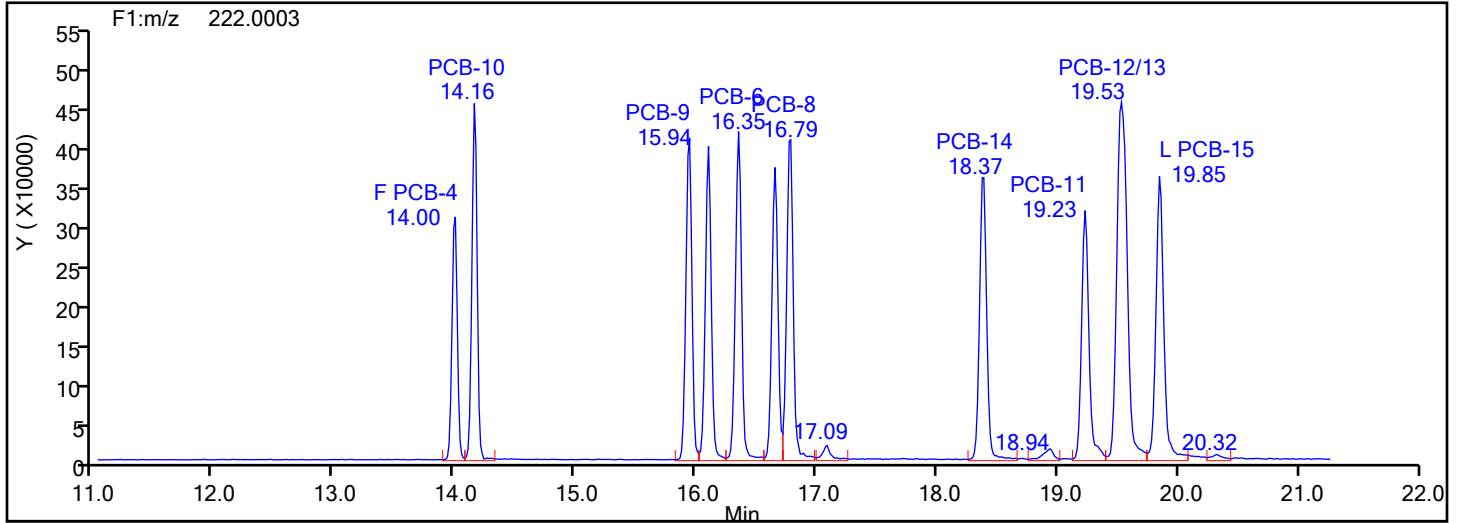
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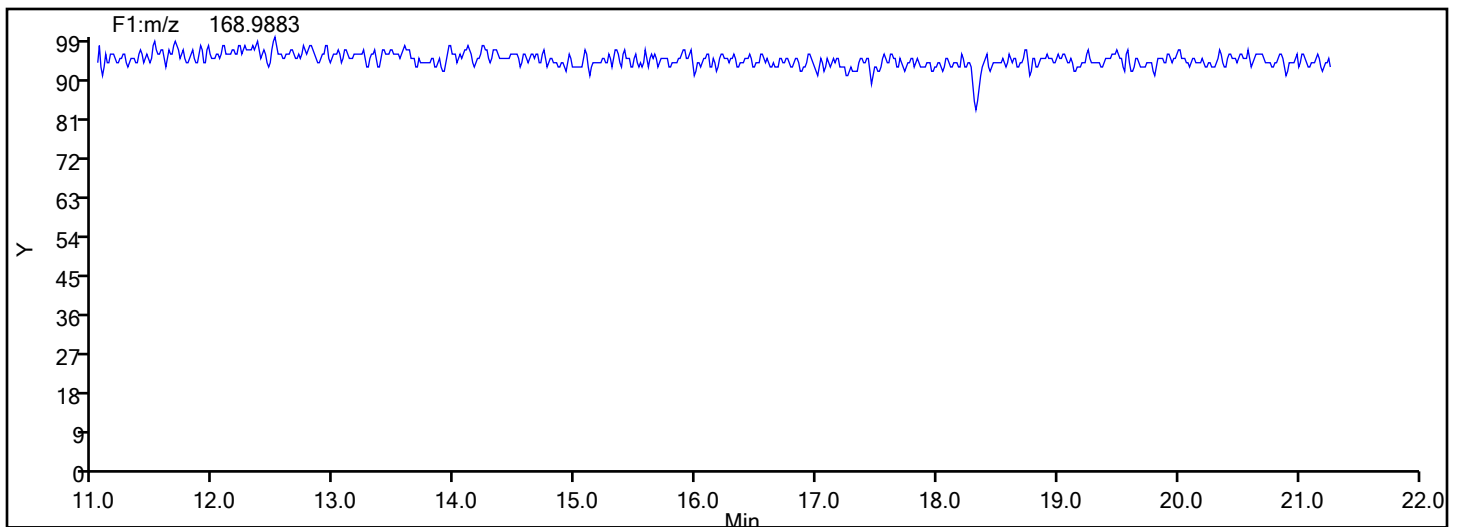
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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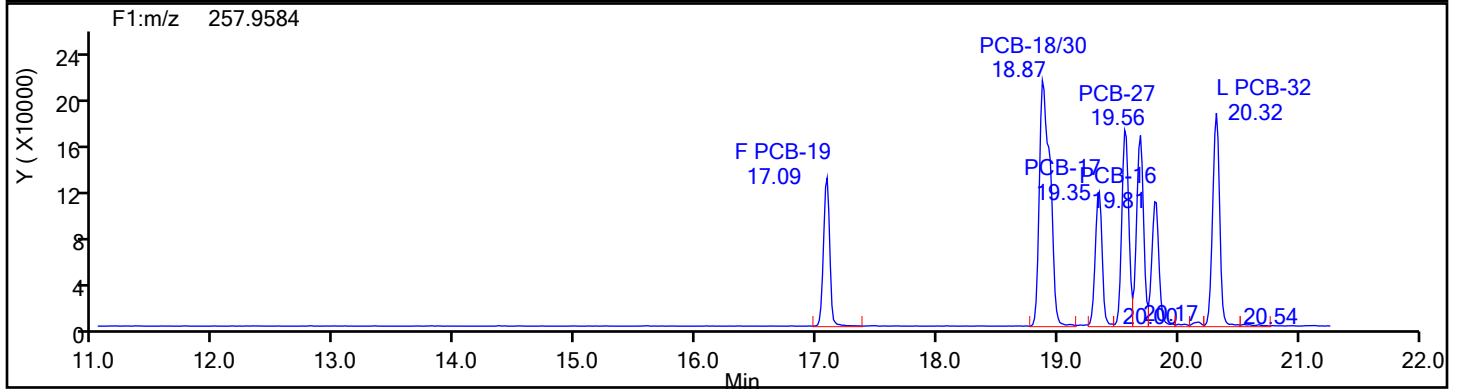
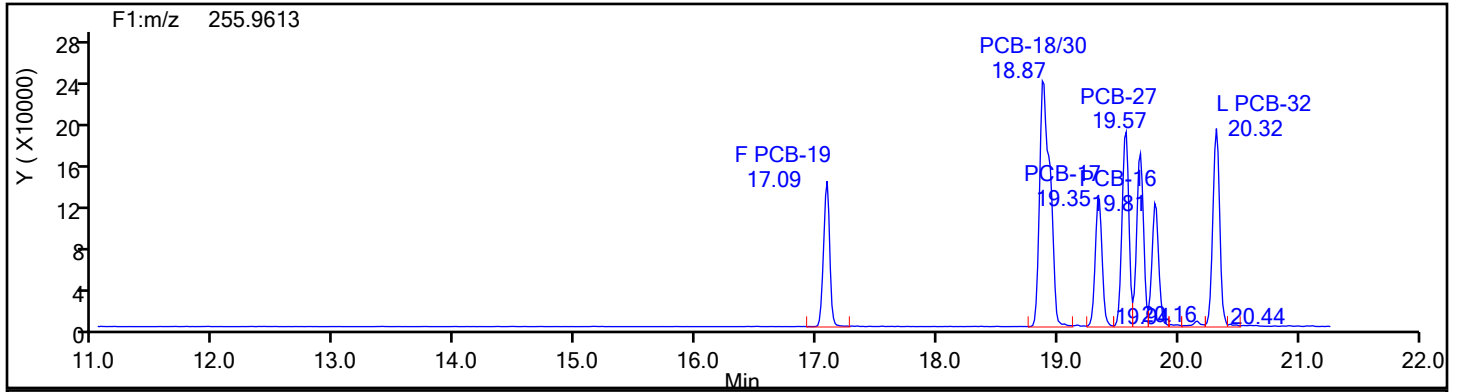
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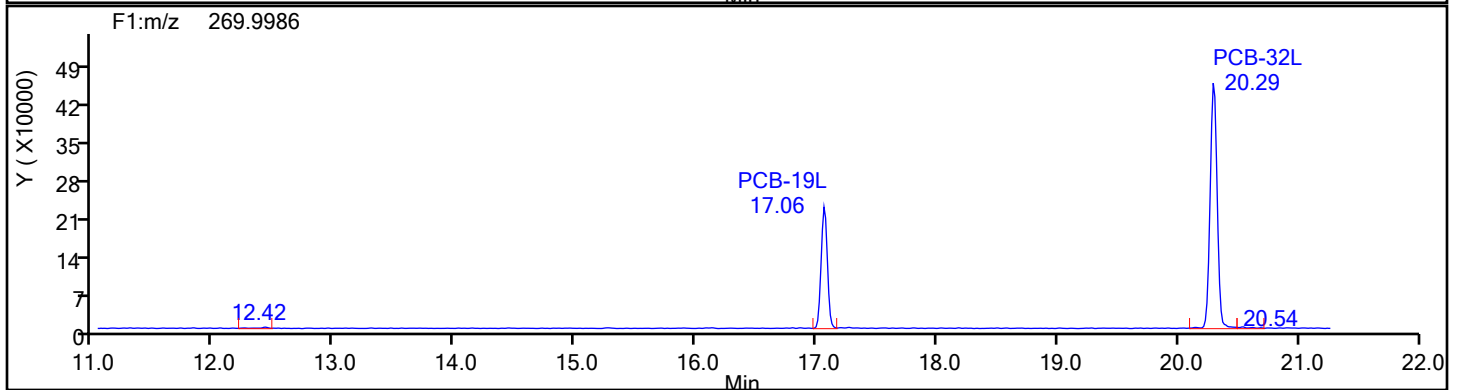
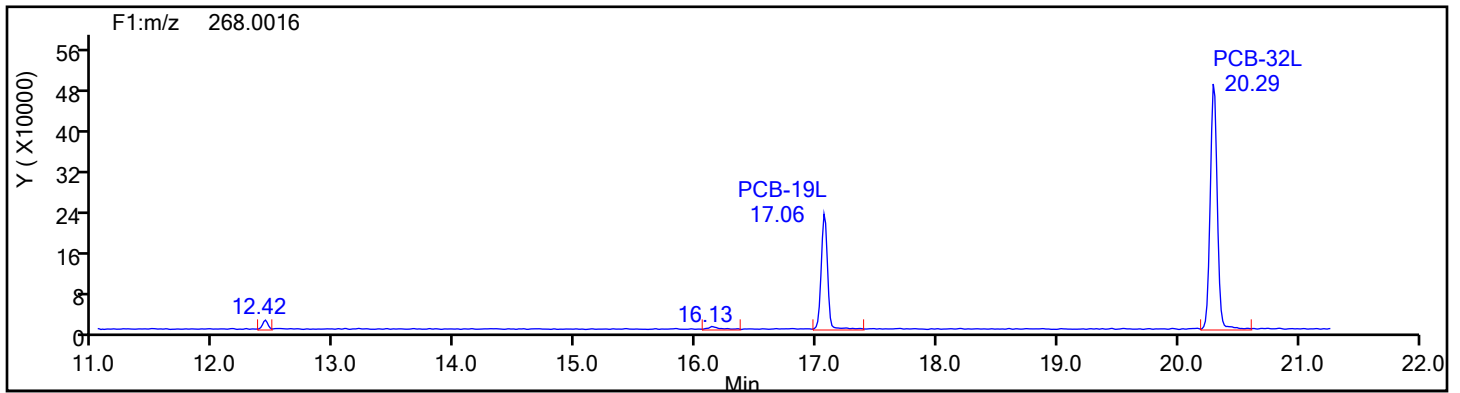
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

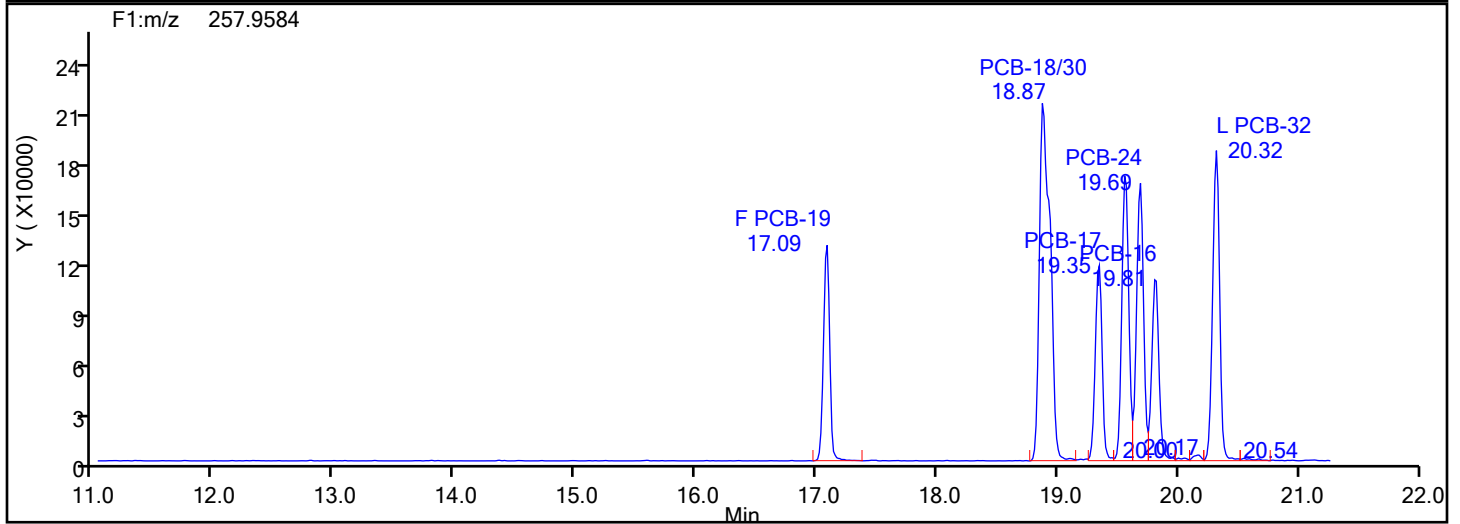
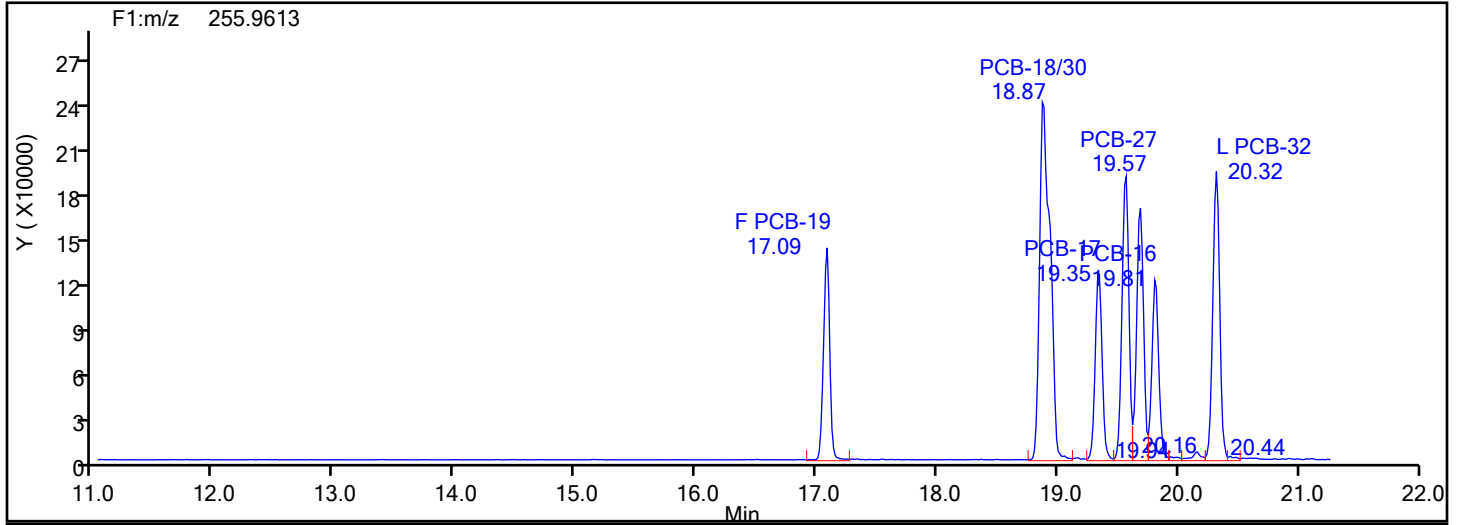
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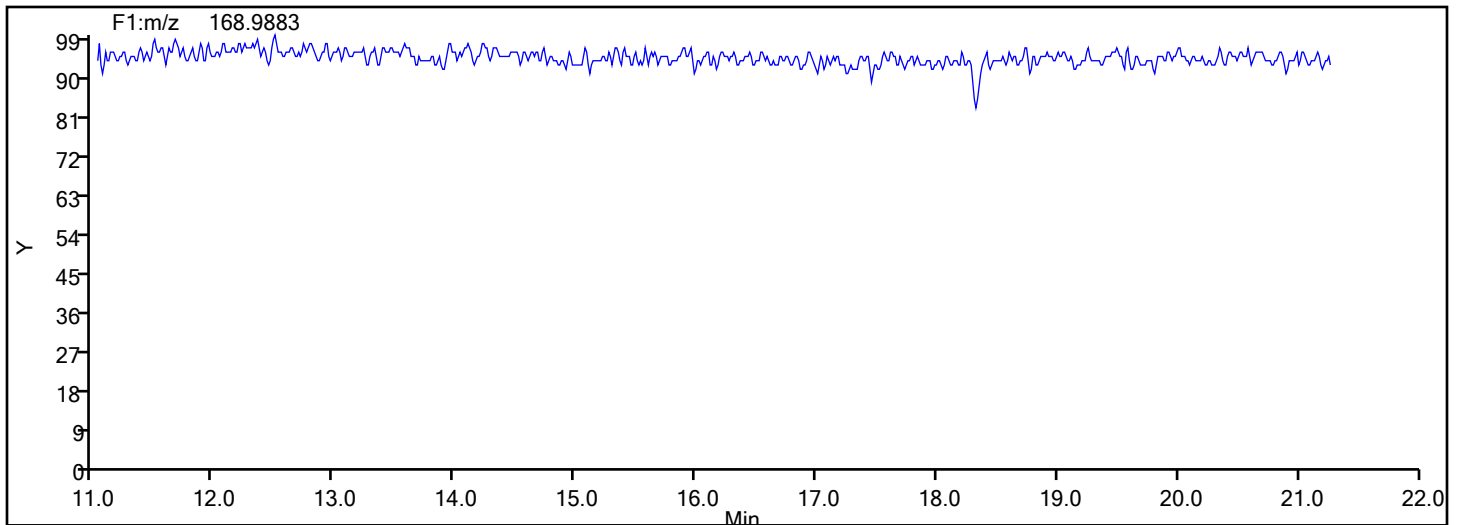
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

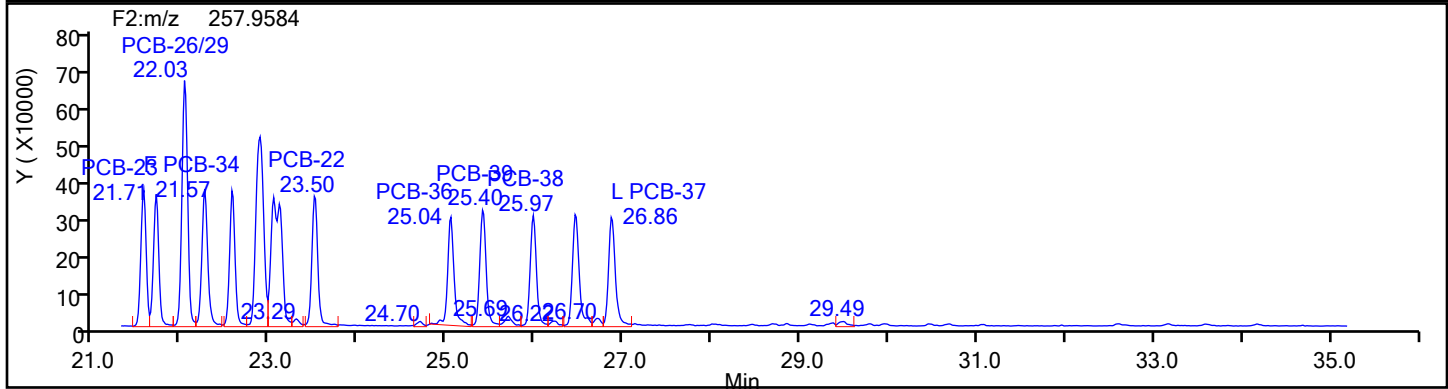
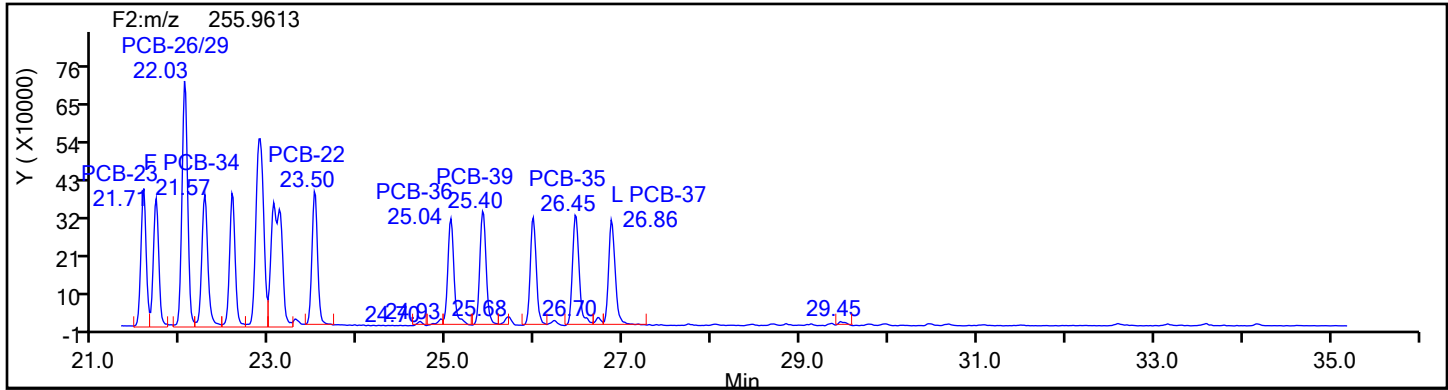
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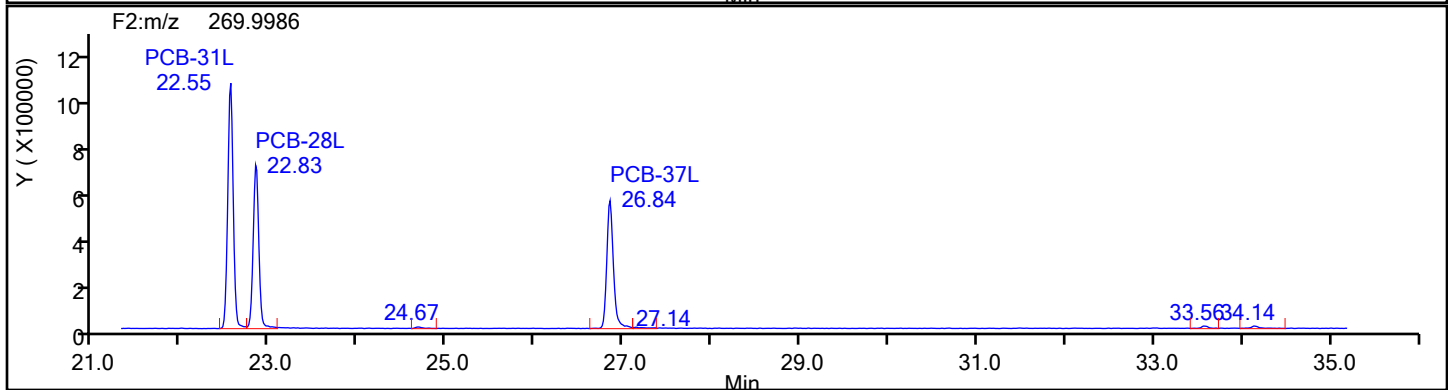
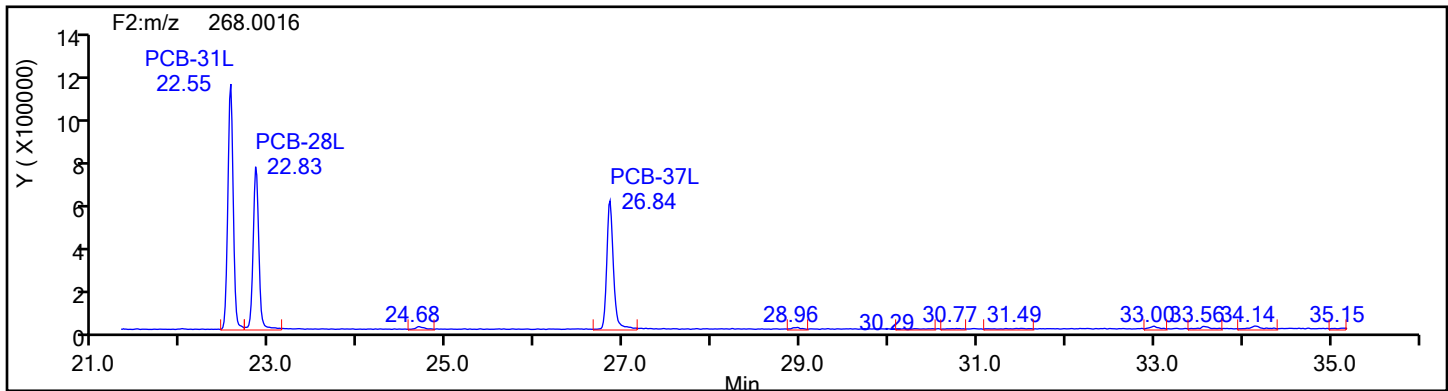
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

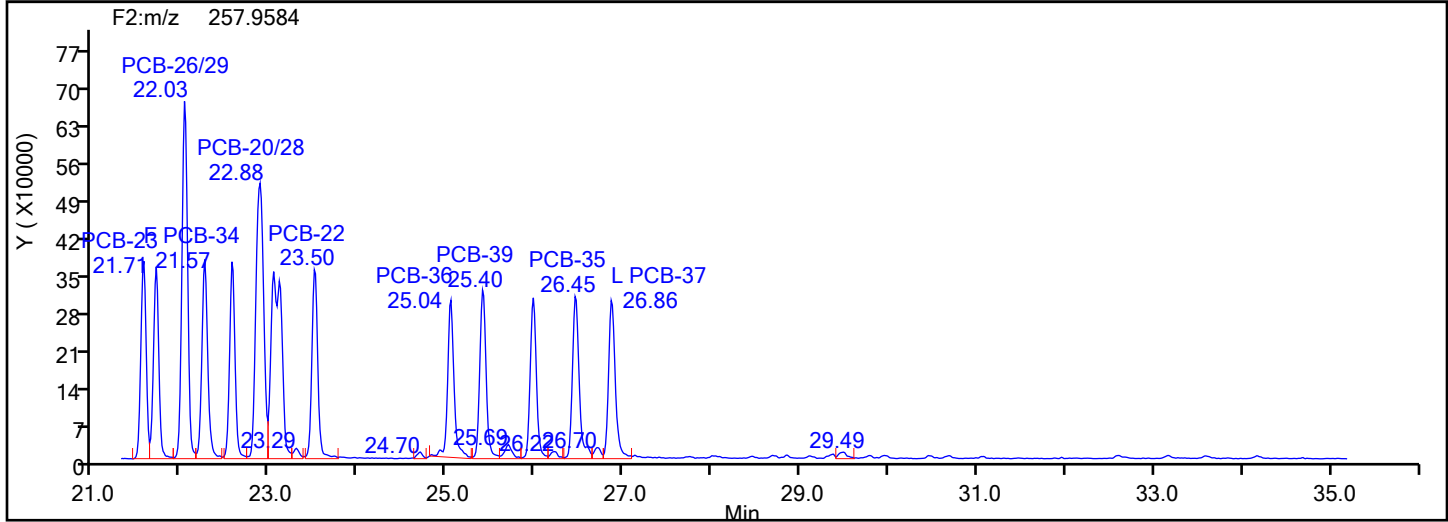
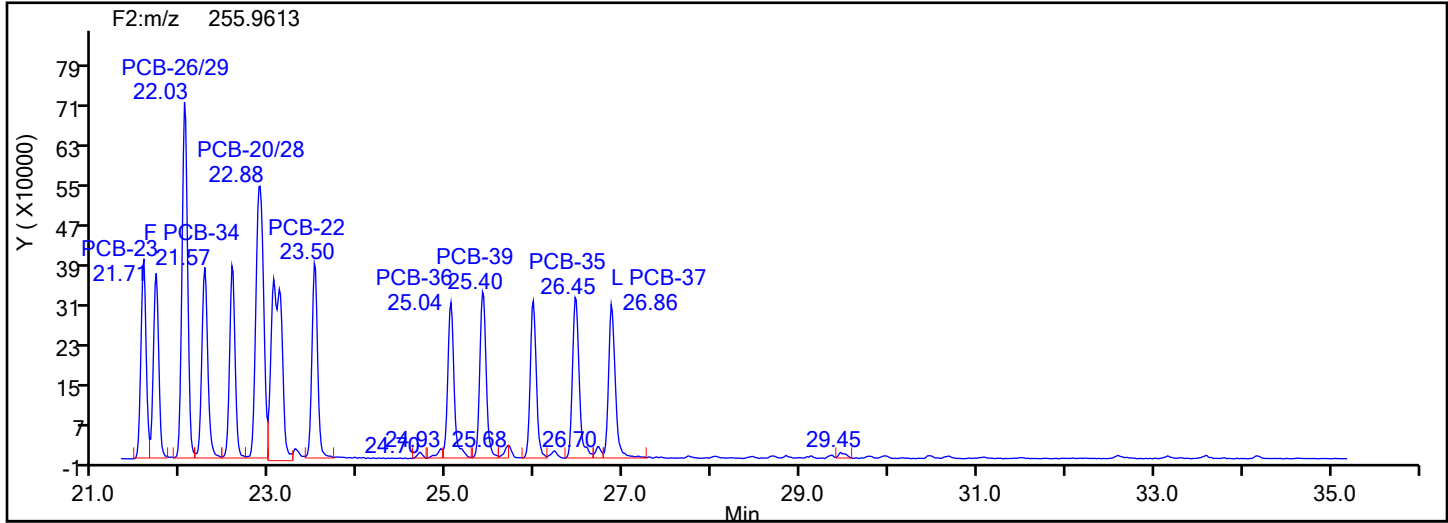
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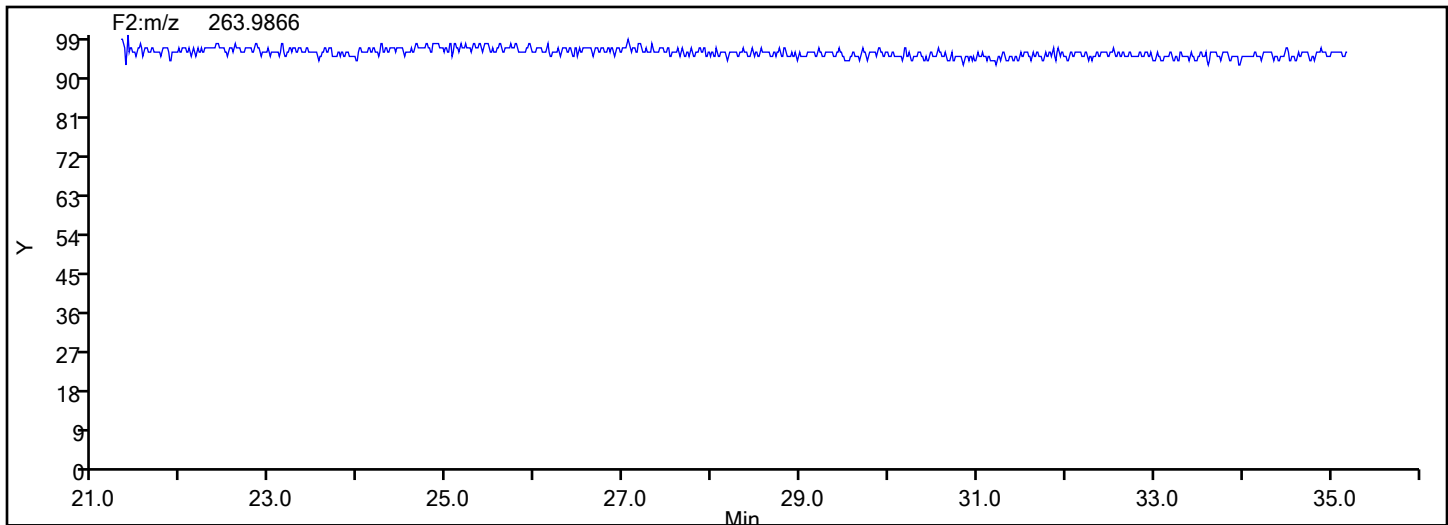
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

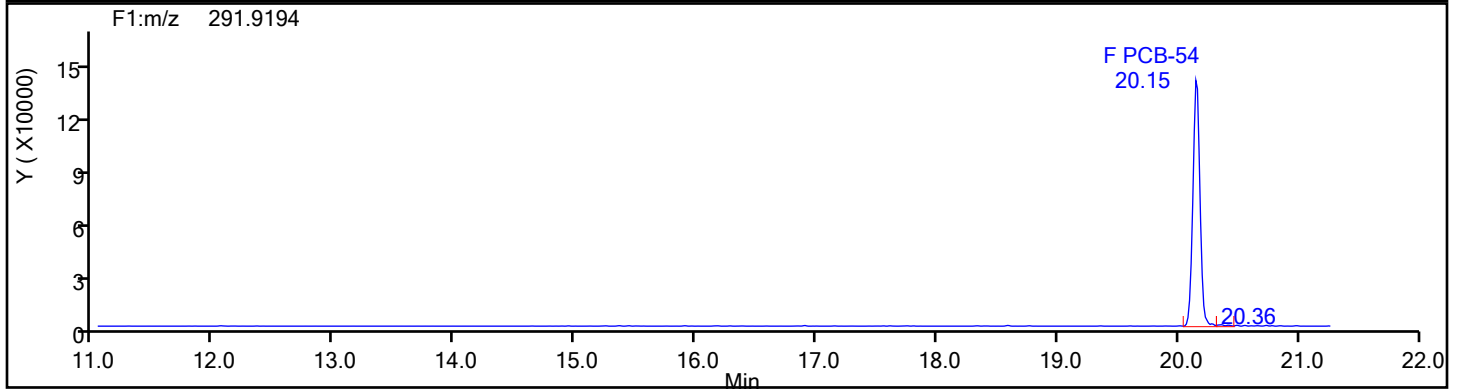
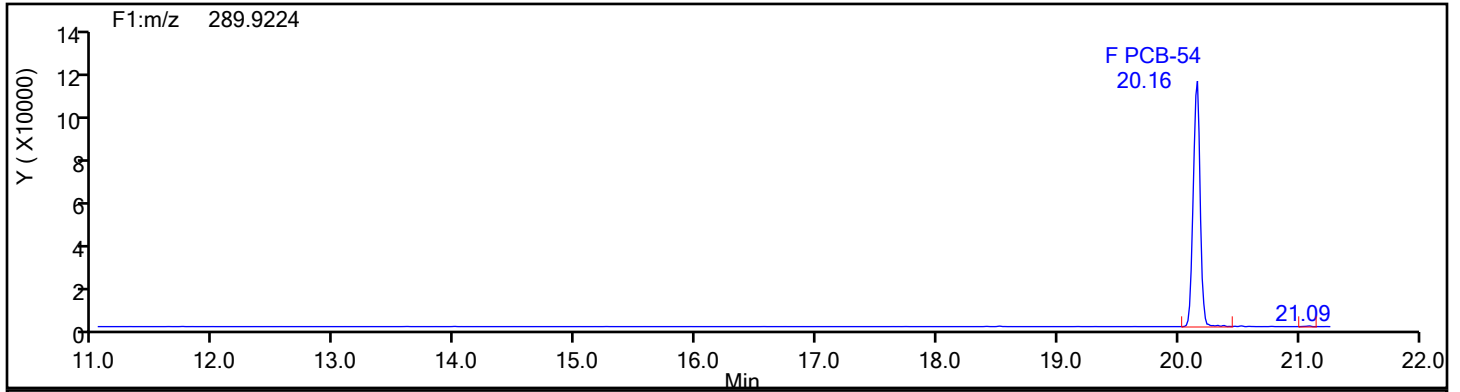
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Sample Line#: 2

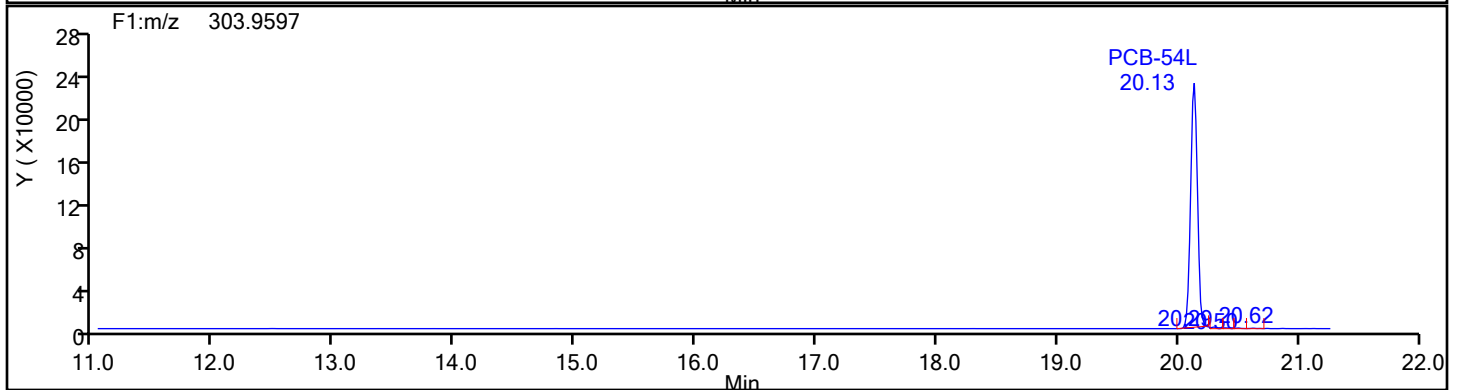
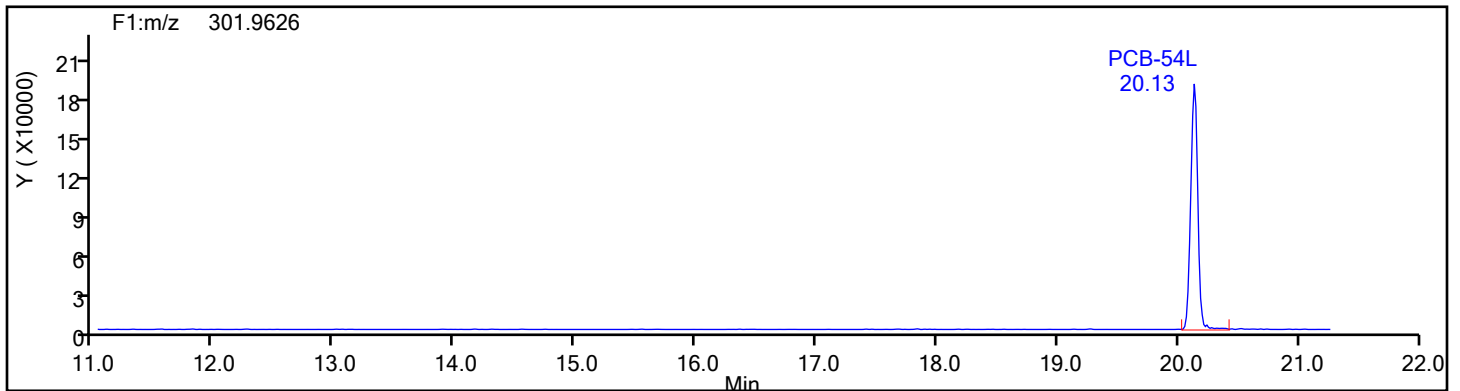
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

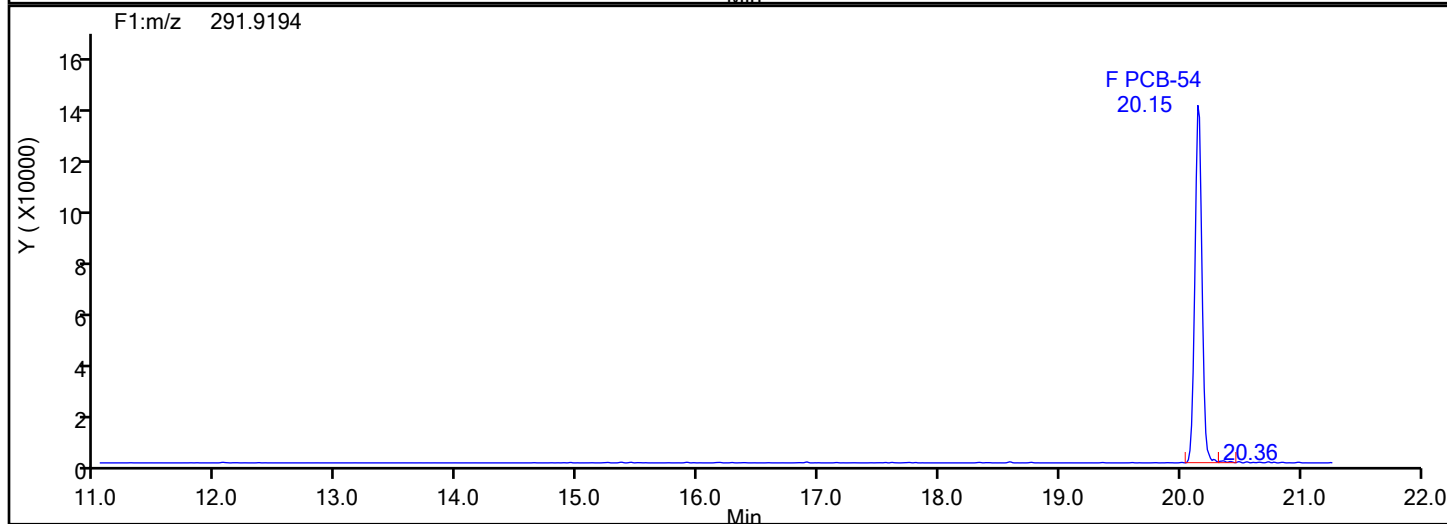
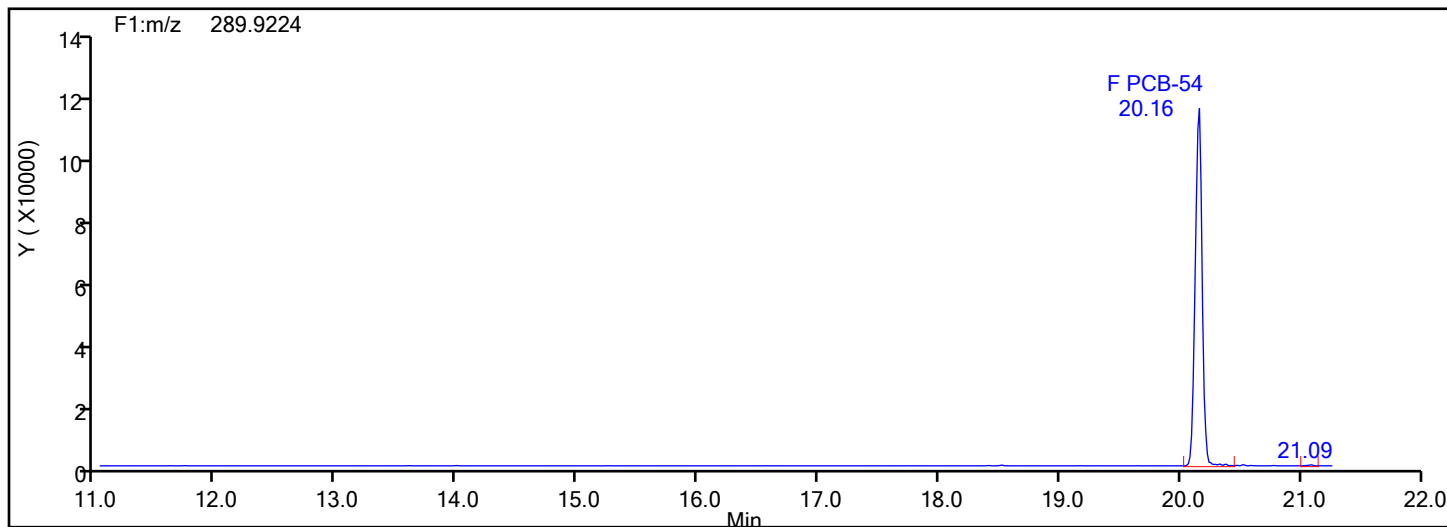
Worklist#: 88747

Sample Line#: 2

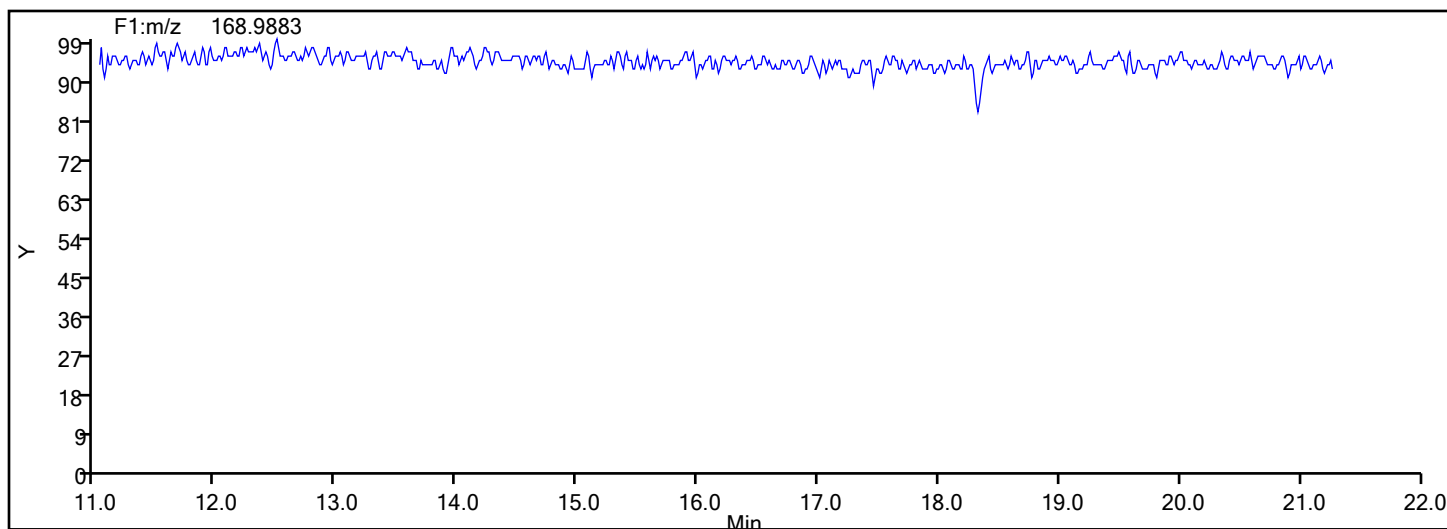
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

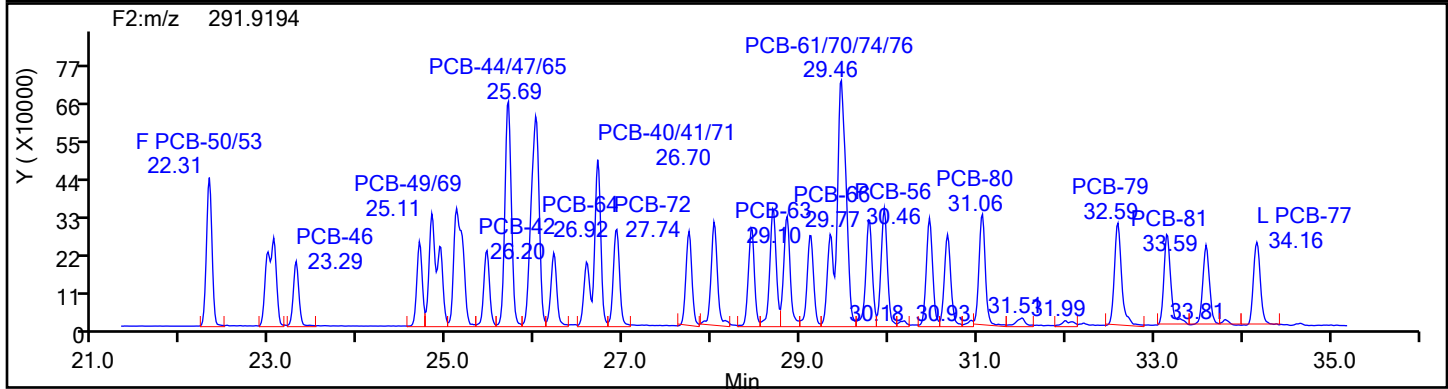
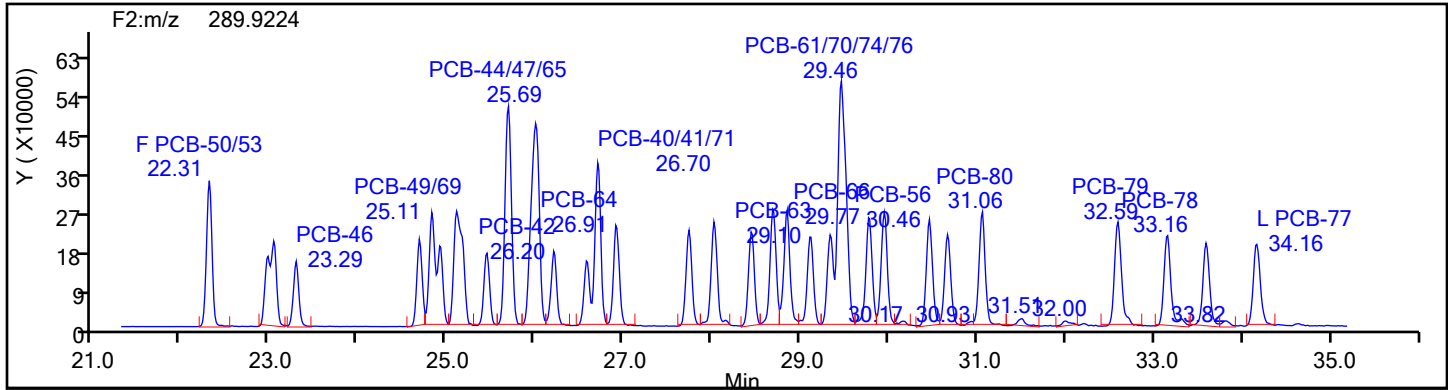
Worklist#: 88747

Sample Line#: 2

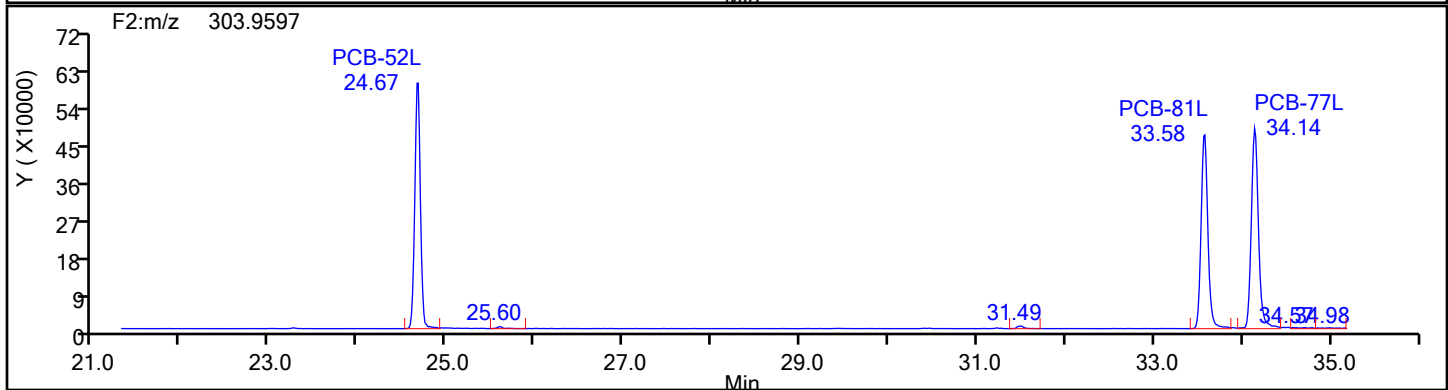
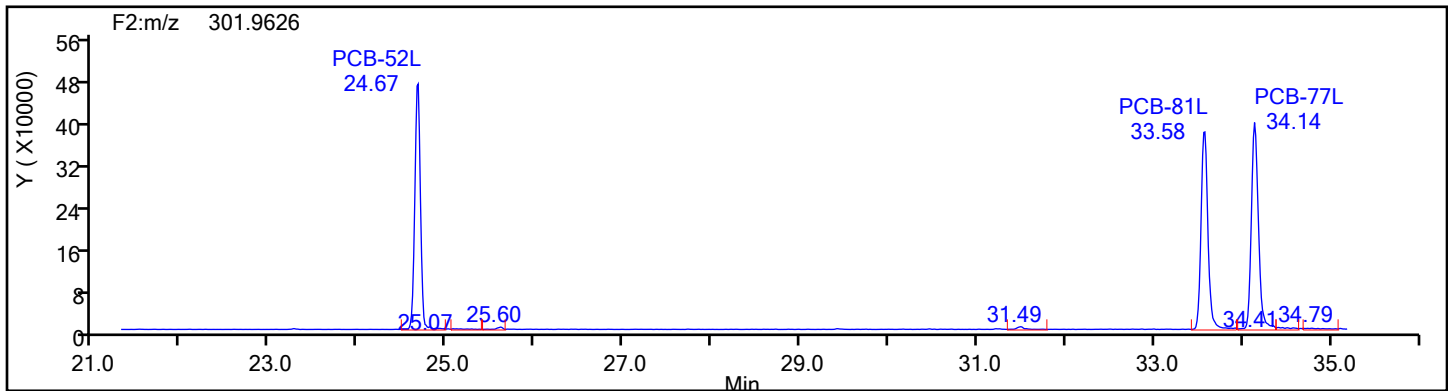
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

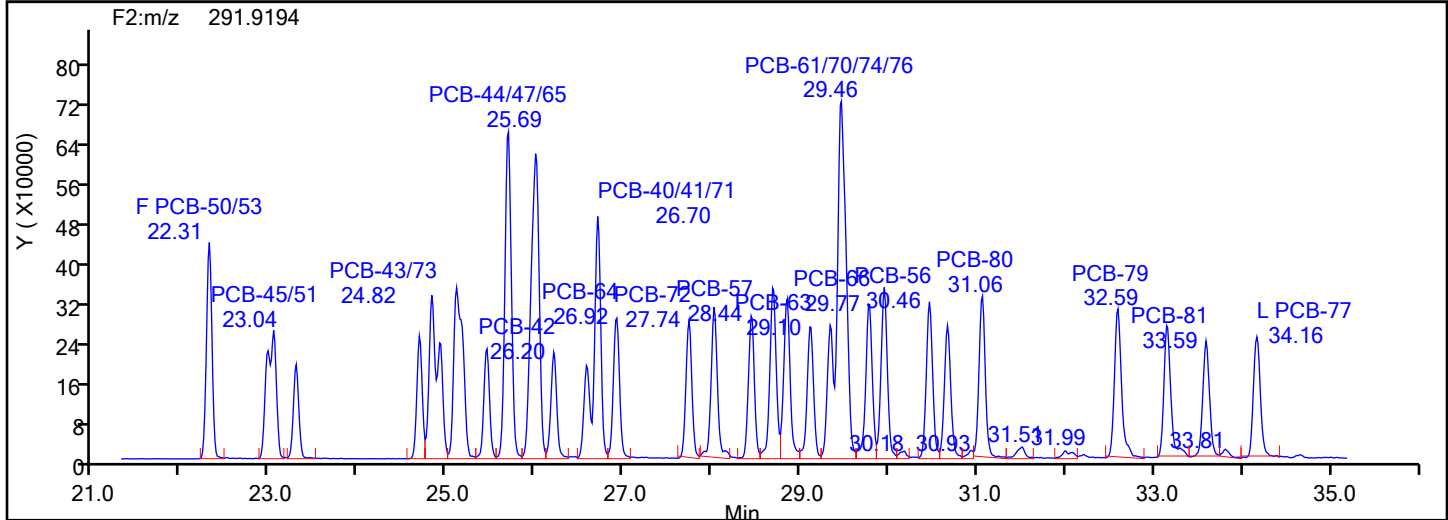
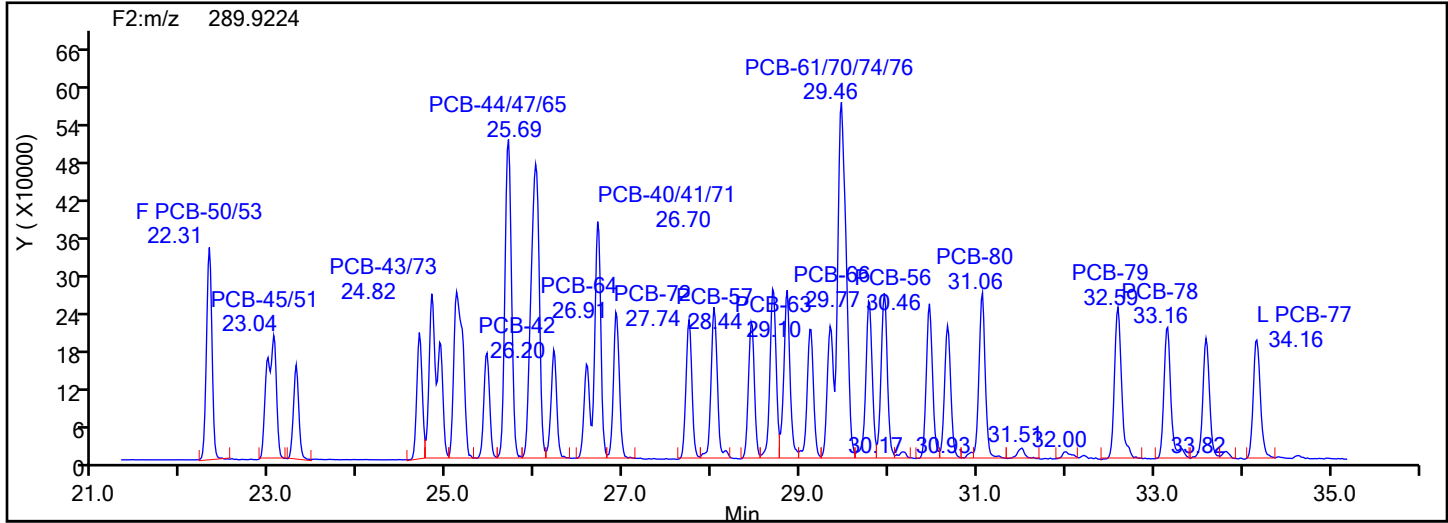
Worklist#: 88747

Sample Line#: 2

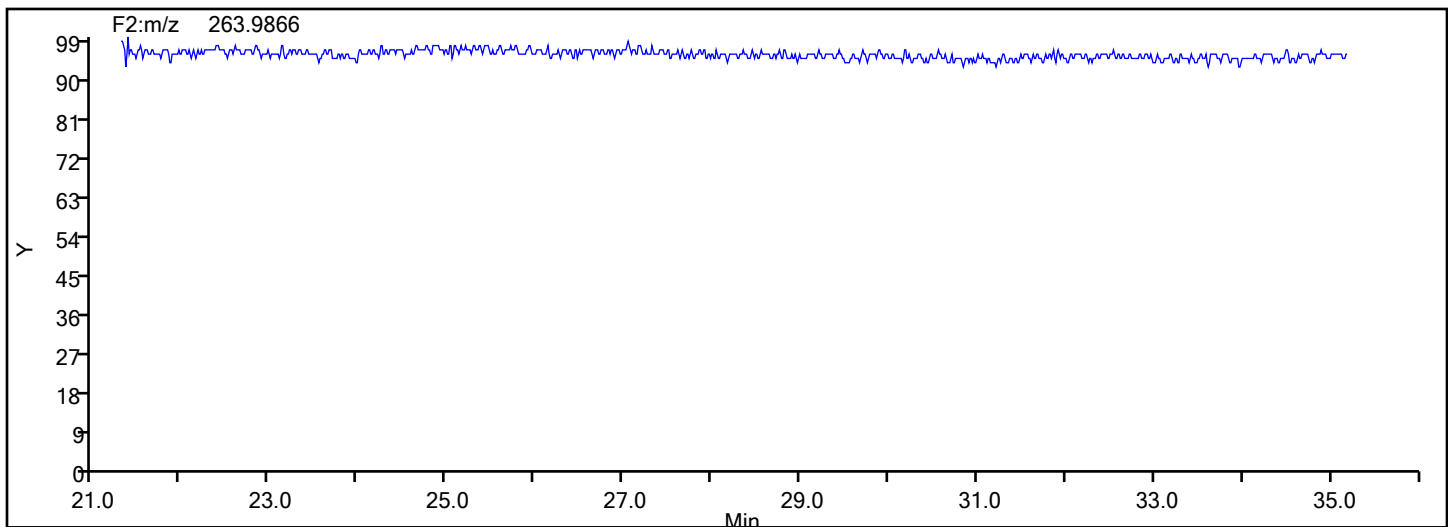
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

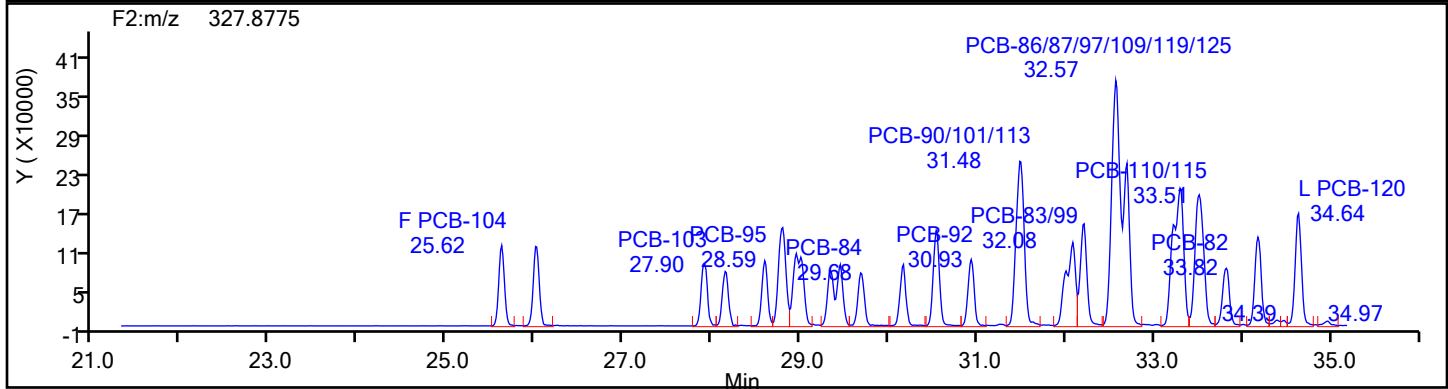
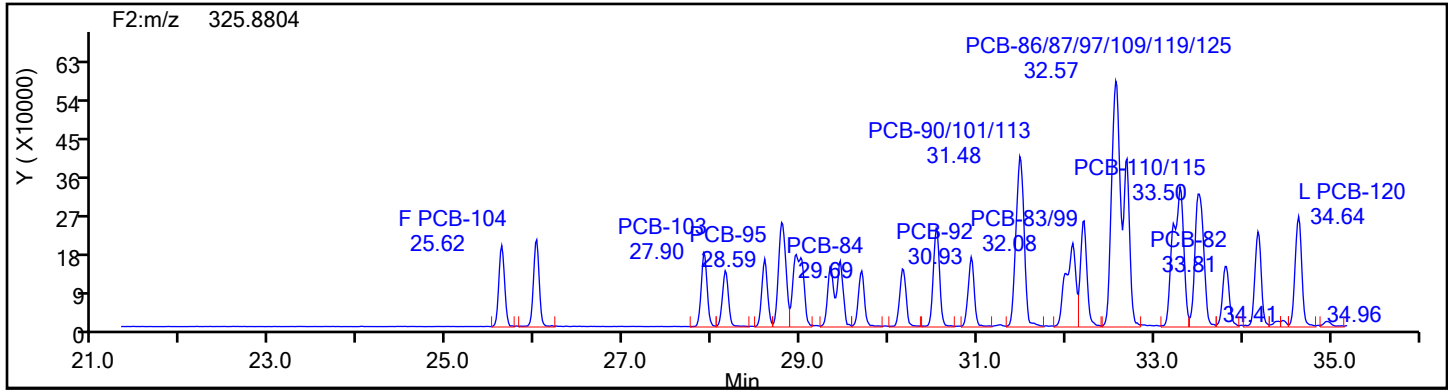
Worklist#: 88747

Sample Line#: 2

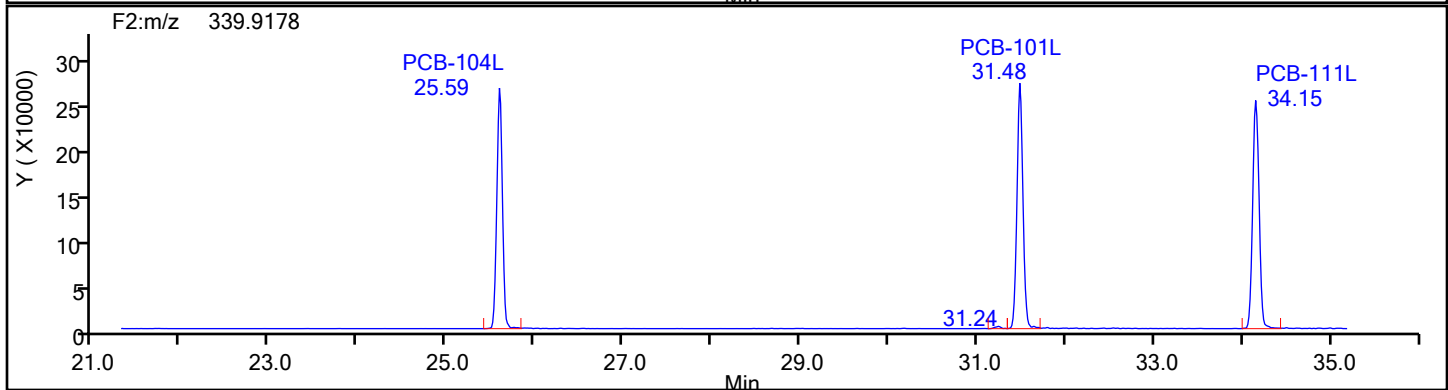
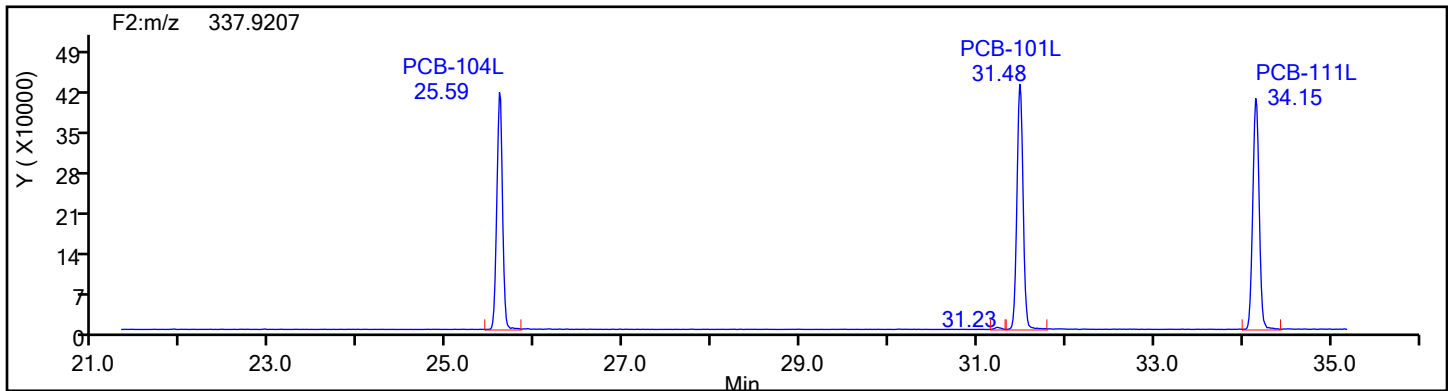
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

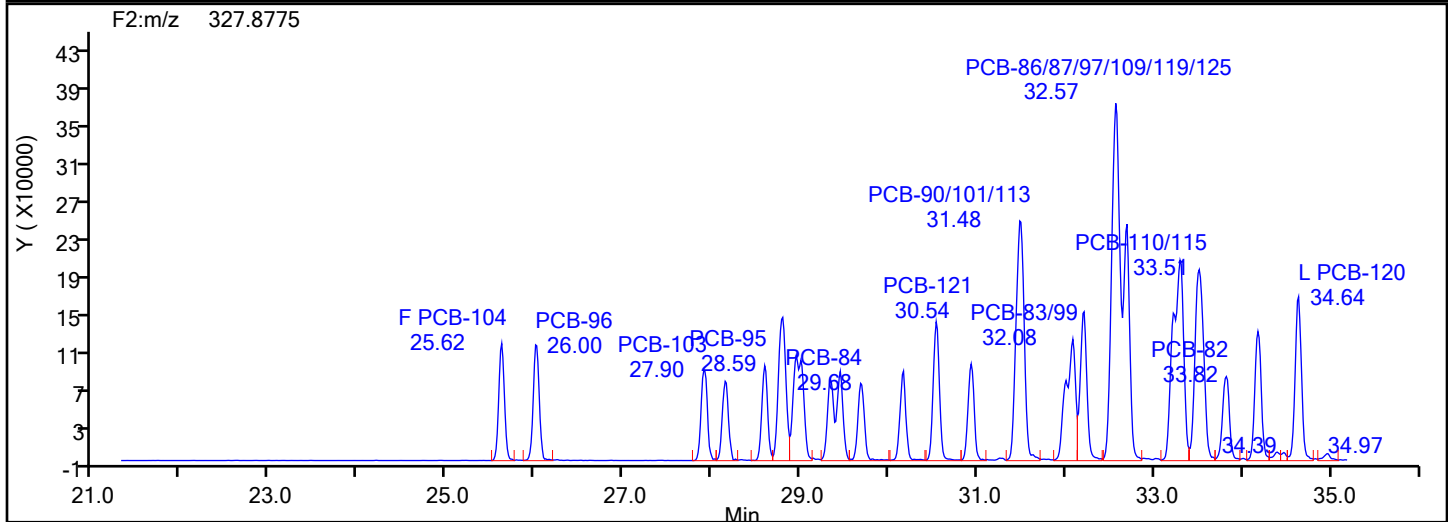
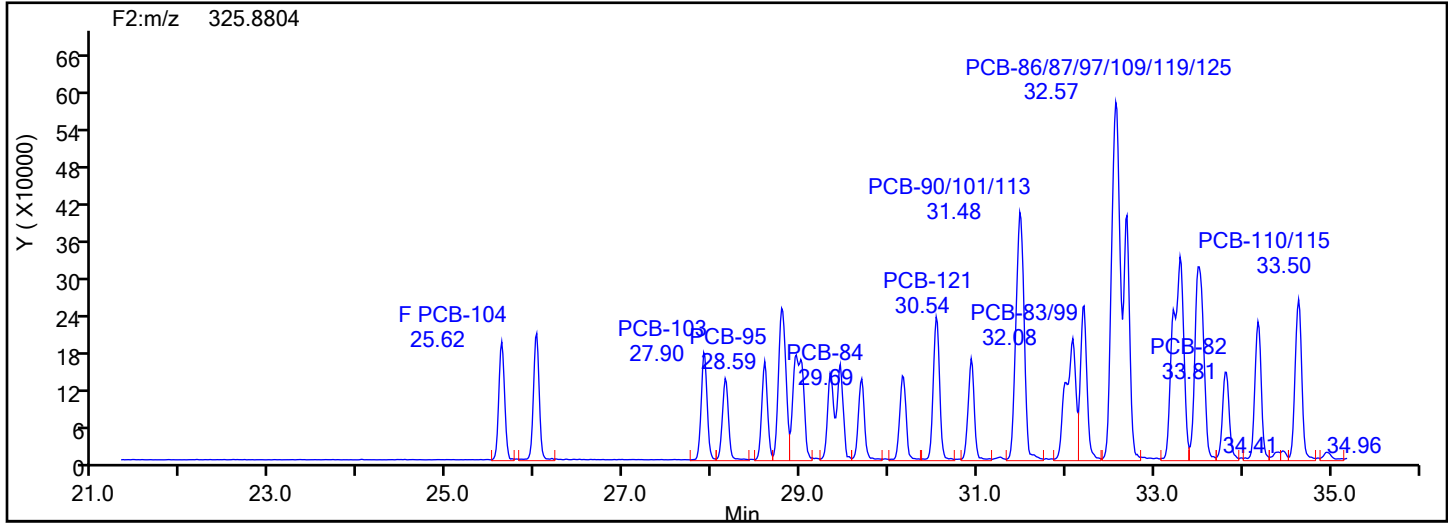
Worklist#: 88747

Sample Line#: 2

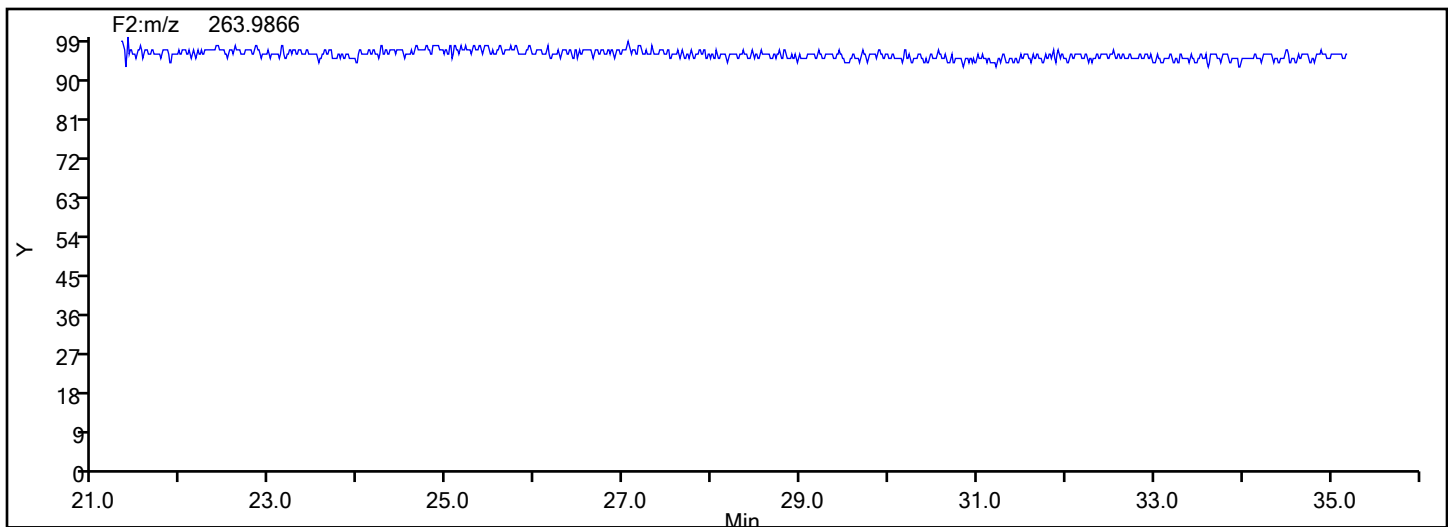
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

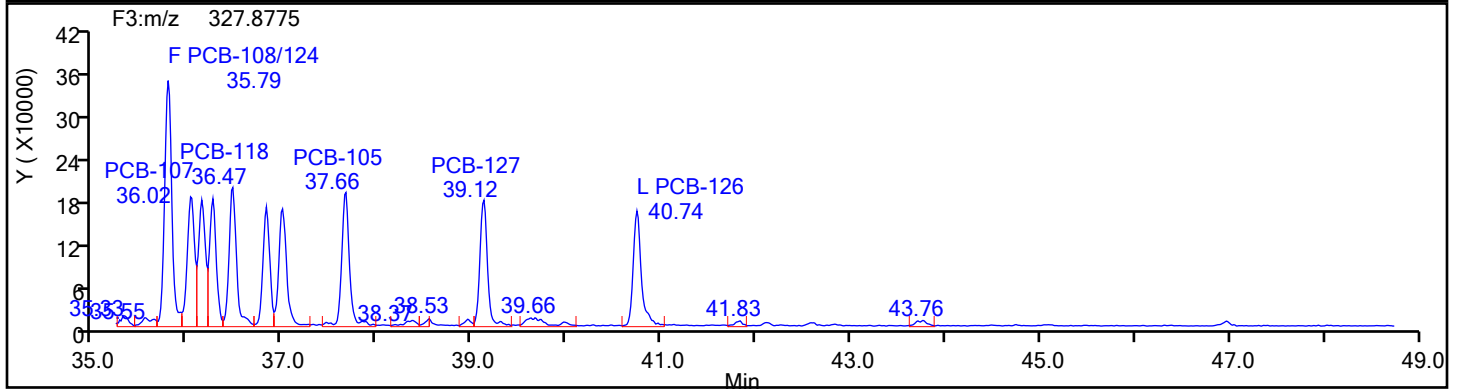
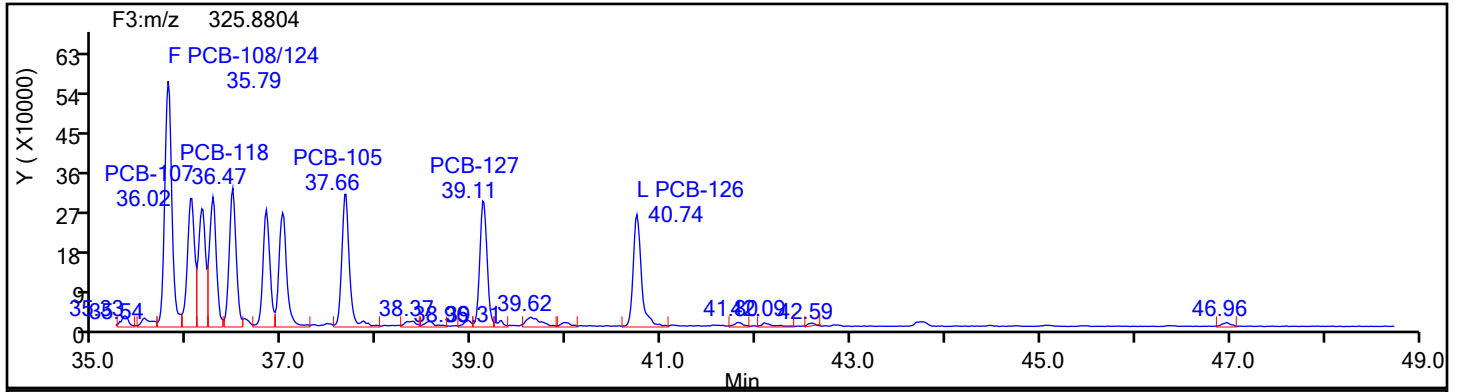
Worklist#: 88747

Sample Line#: 2

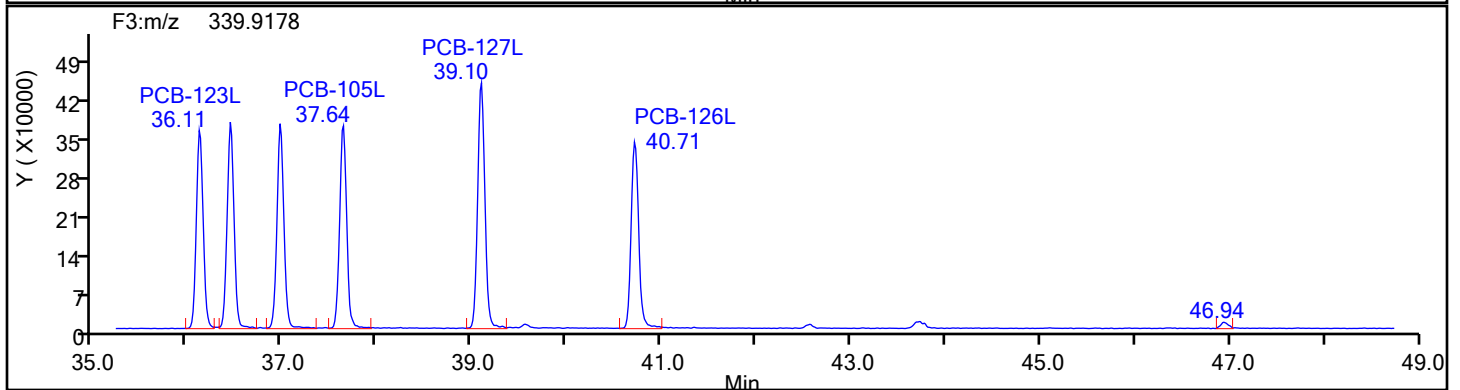
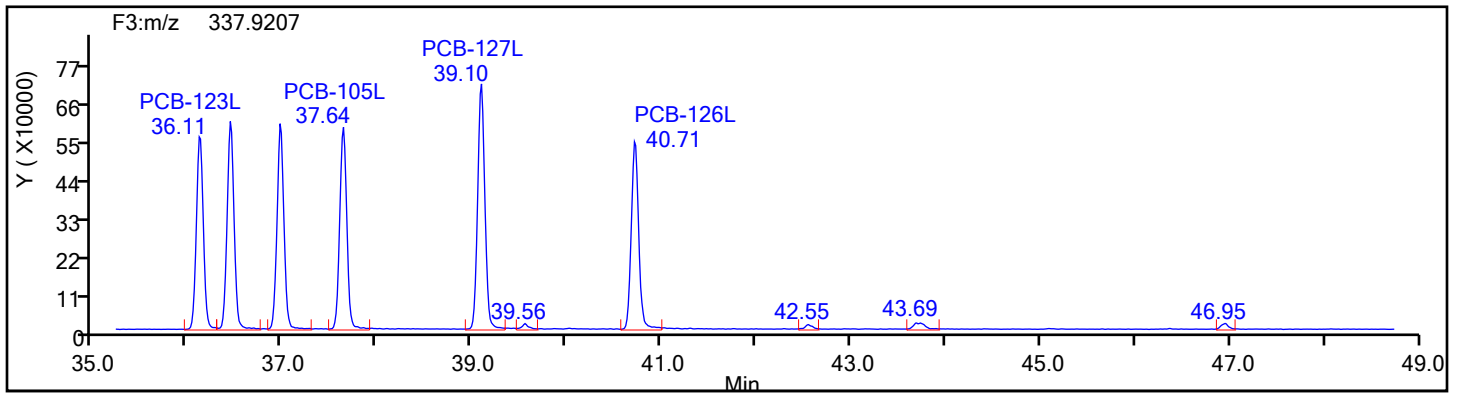
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

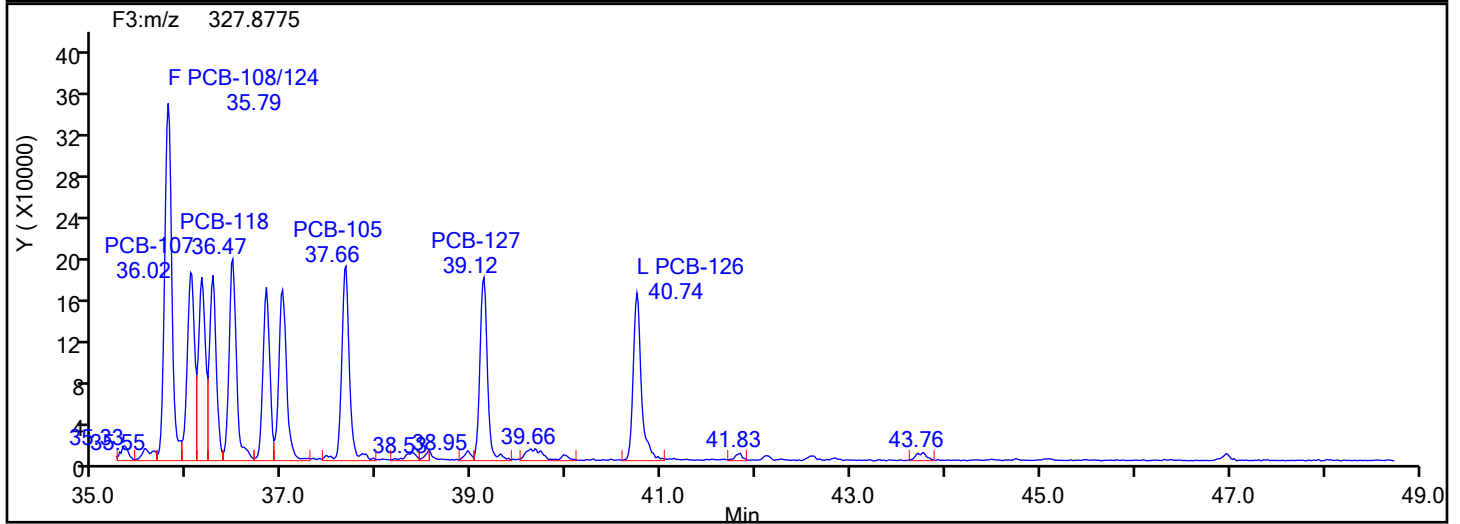
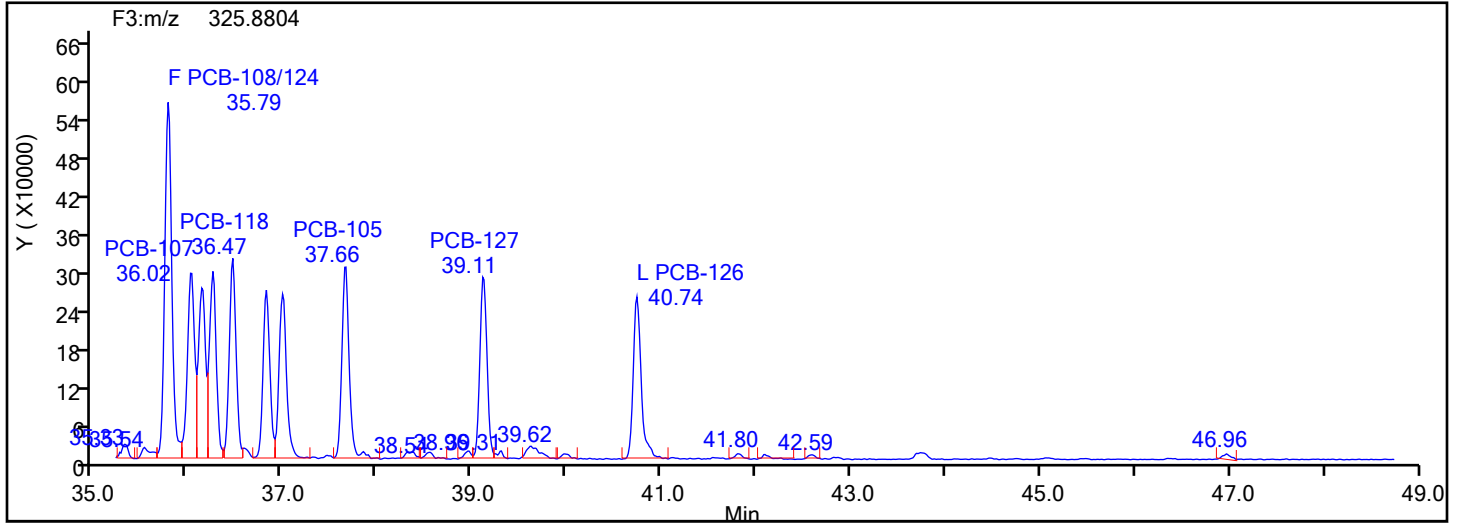
Worklist#: 88747

Sample Line#: 2

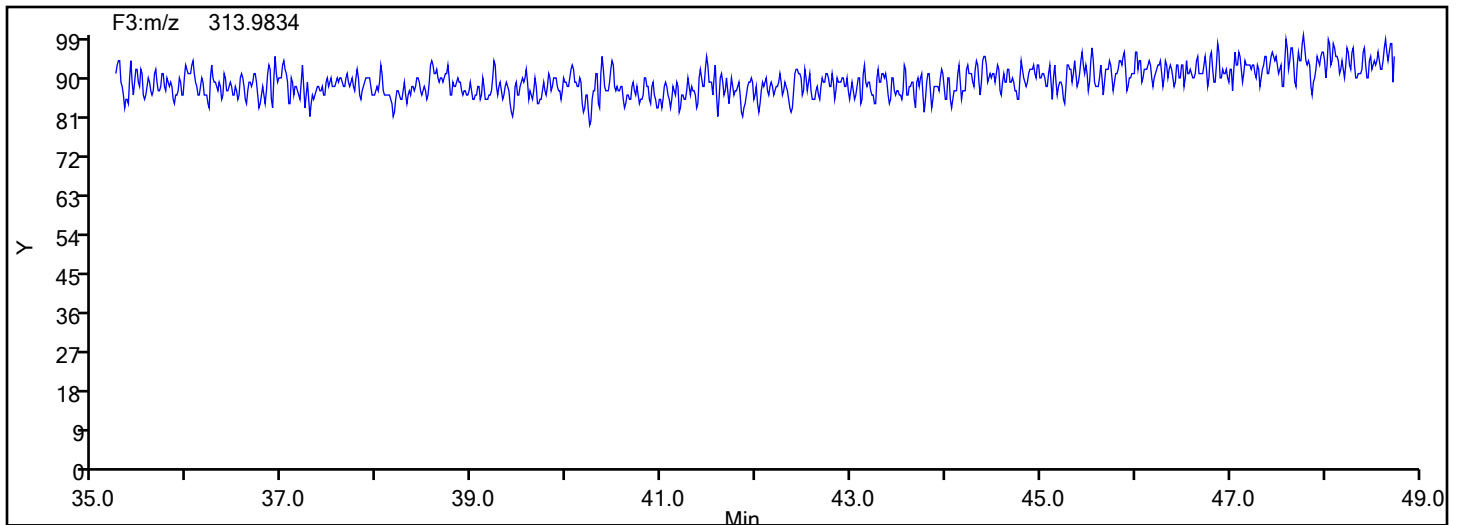
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Instrument ID: D2D

Lims ID: LCS 140-88193/19-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

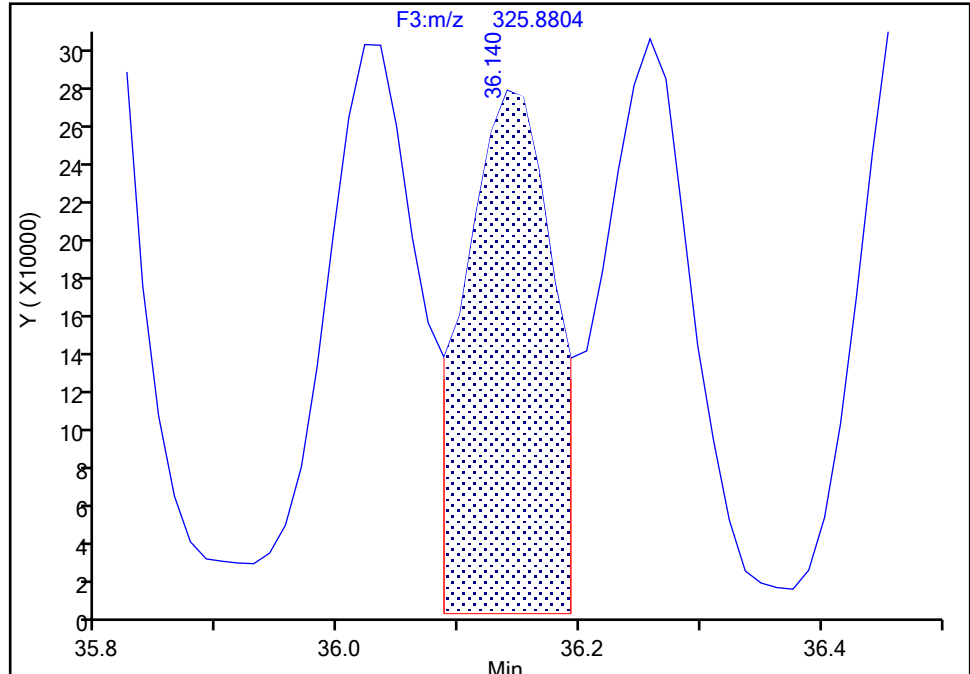
Detector F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 1

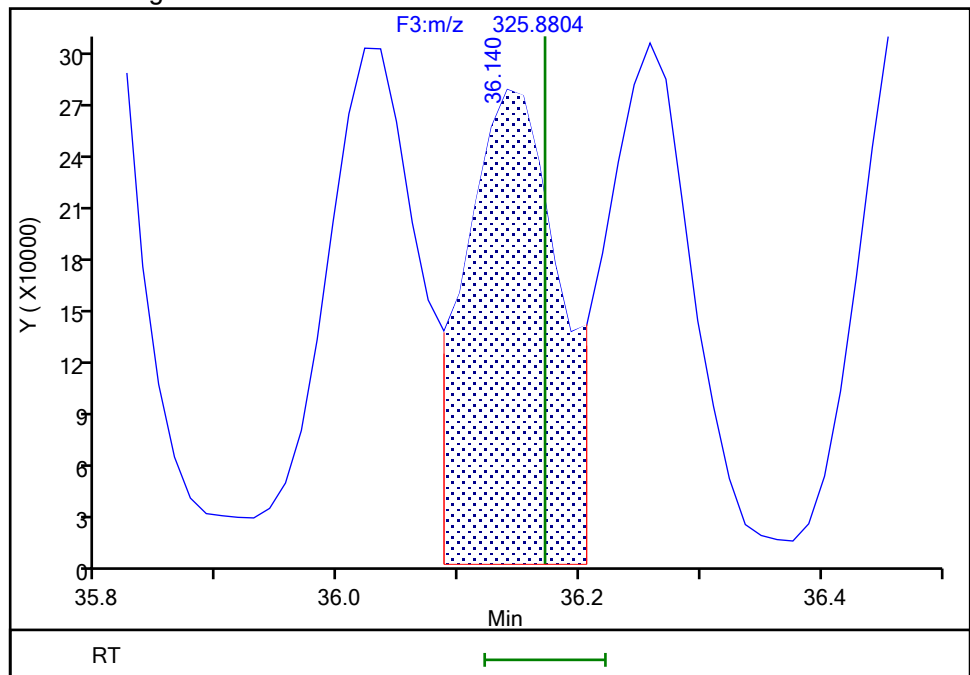
RT: 36.14
Area: 1319569
Amount: 44.623288
Amount Units: pg/ul

Processing Integration Results



RT: 36.14
Area: 1422621
Amount: 46.690479
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:43:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Instrument ID: D2D

Lims ID: LCS 140-88193/19-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#: 0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

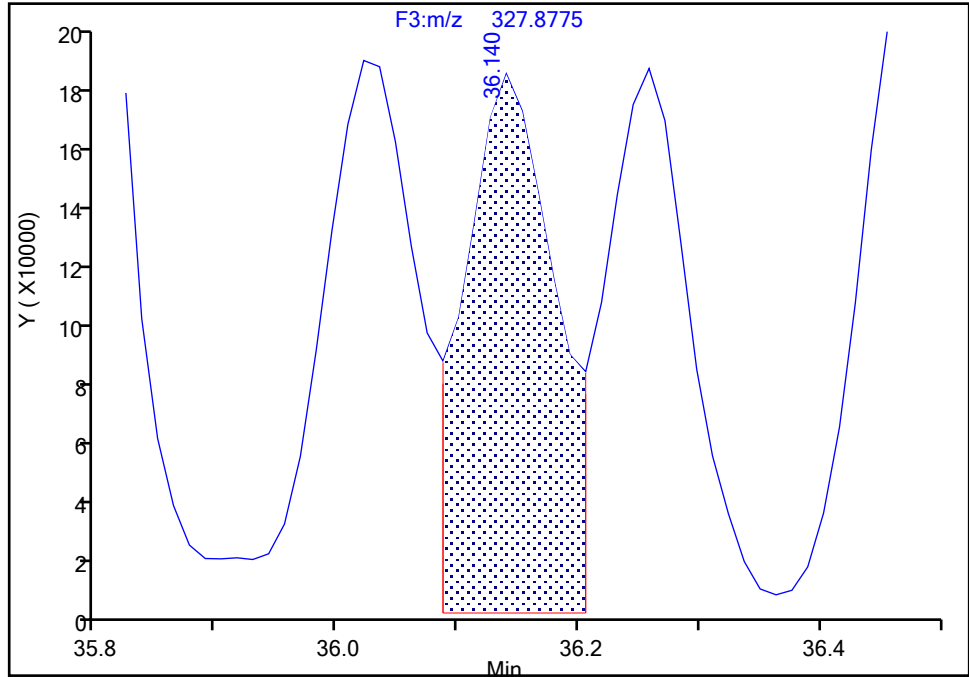
Detector F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 2

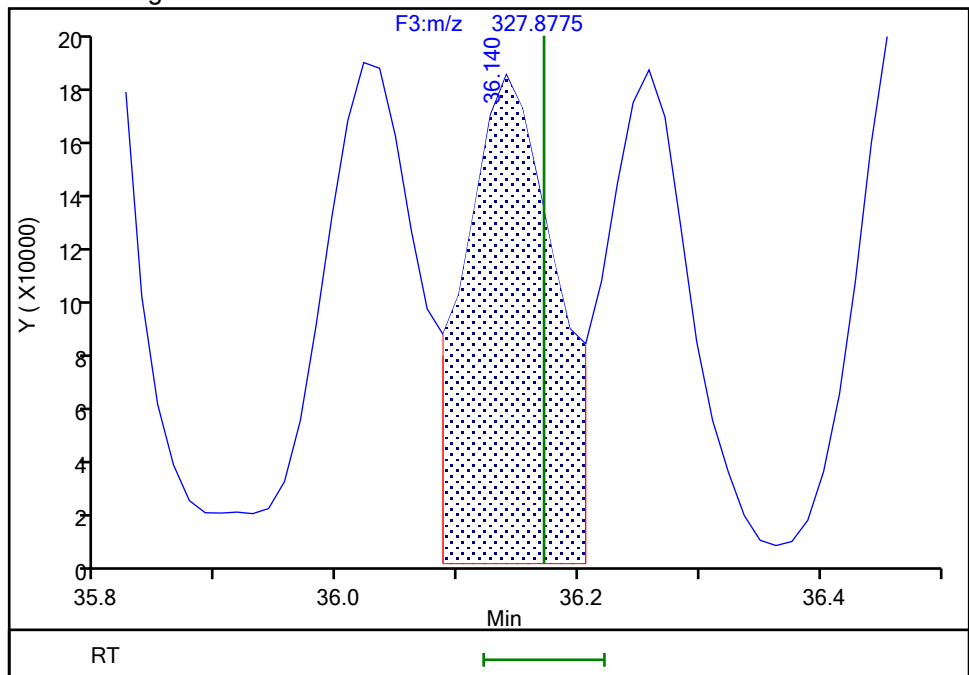
RT: 36.14
Area: 904957
Amount: 44.623288
Amount Units: pg/ul

Processing Integration Results



RT: 36.14
Area: 904957
Amount: 46.690479
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:43:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 2945 of 3050

BASFWC-McIntosh-010946

9/6/2024

4:11:20 PM

Eurofins Knoxville

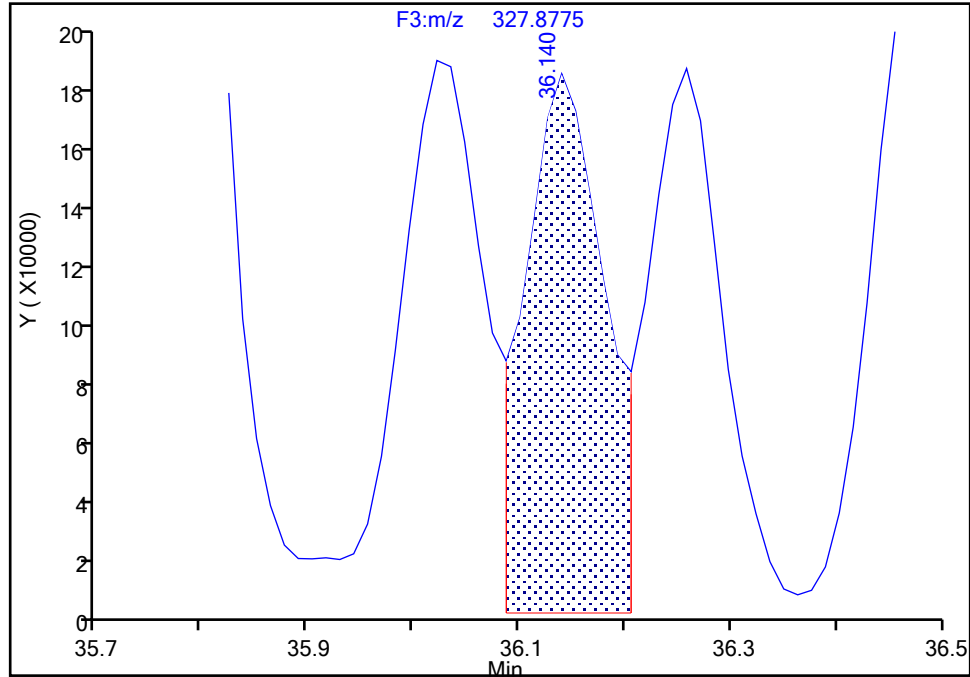
Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d
Injection Date: 15-Jul-2024 13:44:00 Instrument ID: D2D
Lims ID: LCS 140-88193/19-B
Client ID:
Operator ID: Xcalibur_System ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Column: SPB-Octyl (0.25 mm) Detector F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 3

RT: 36.14
Area: 2224526
Amount: 44.623288
Amount Units: pg/ul

Processing Integration Results



Manual Integration Results

RT: 36.14
Area: 2327578
Amount: 46.690479
Amount Units: pg/ul

Reviewer: V4XA, 15-Jul-2024 19:43:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Instrument ID: D2D

Lims ID: LCS 140-88193/19-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

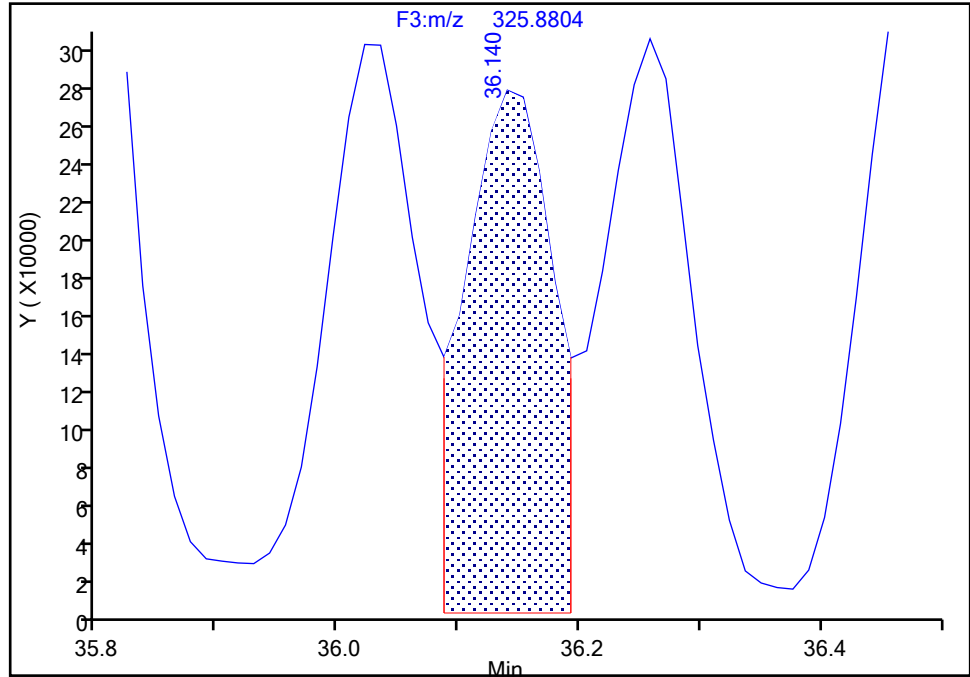
F3(35.64 :49.10)

PCB-123, CAS: 65510-44-3

Signal: 1

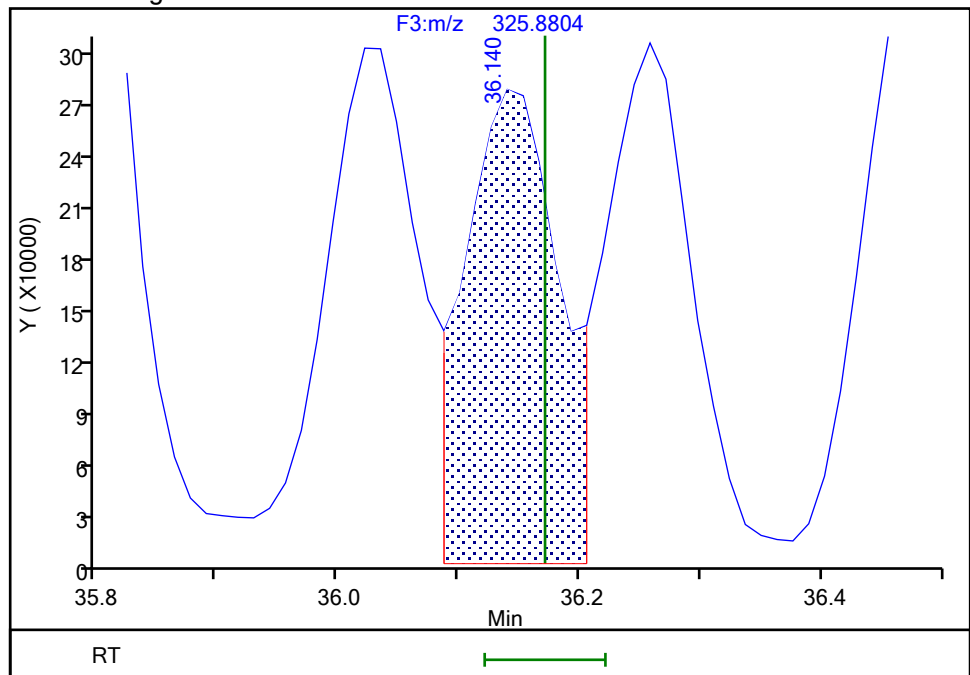
RT: 36.14
Area: 1319569
Amount: 44.623288
Amount Units: pg/ul

Processing Integration Results



RT: 36.14
Area: 1422621
Amount: 46.690479
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:43:11 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

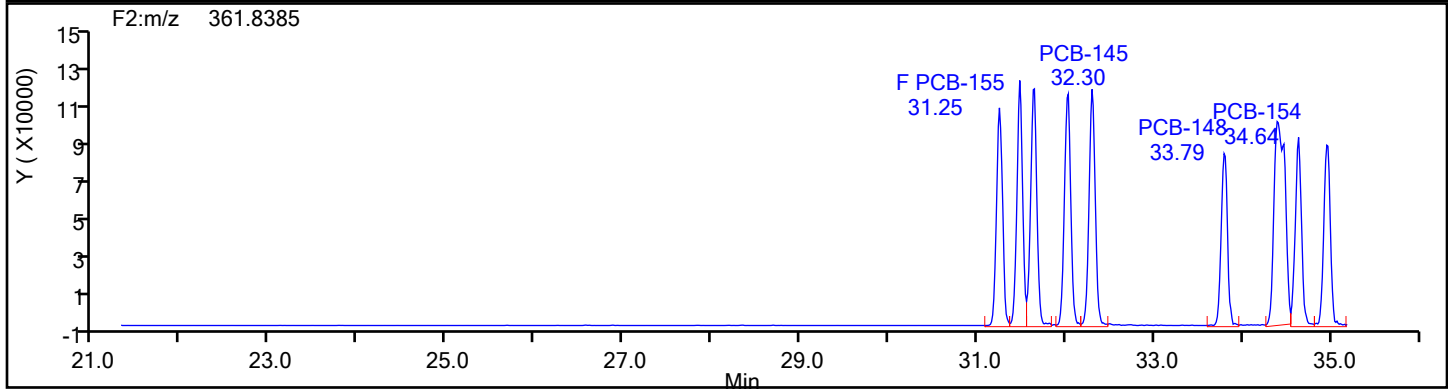
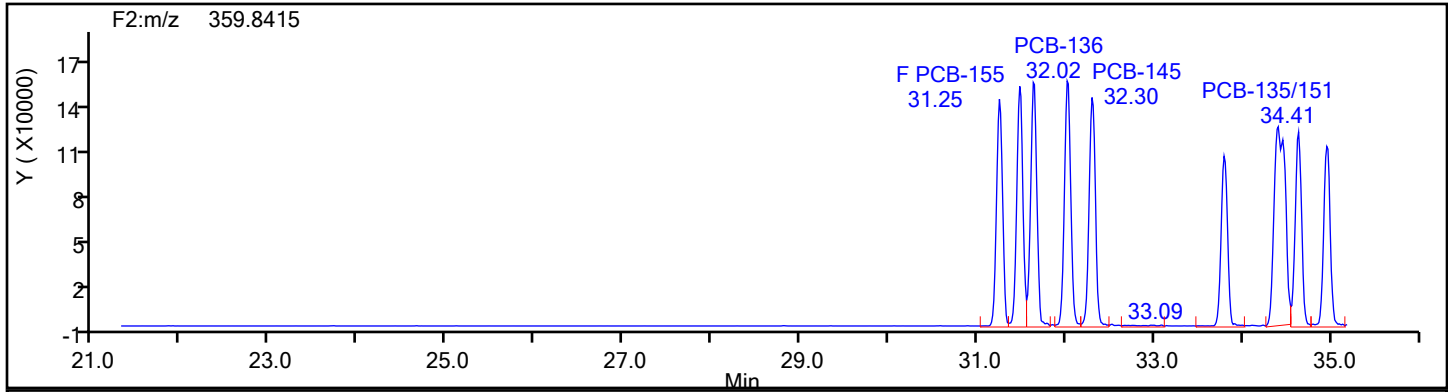
Worklist#: 88747

Sample Line#: 2

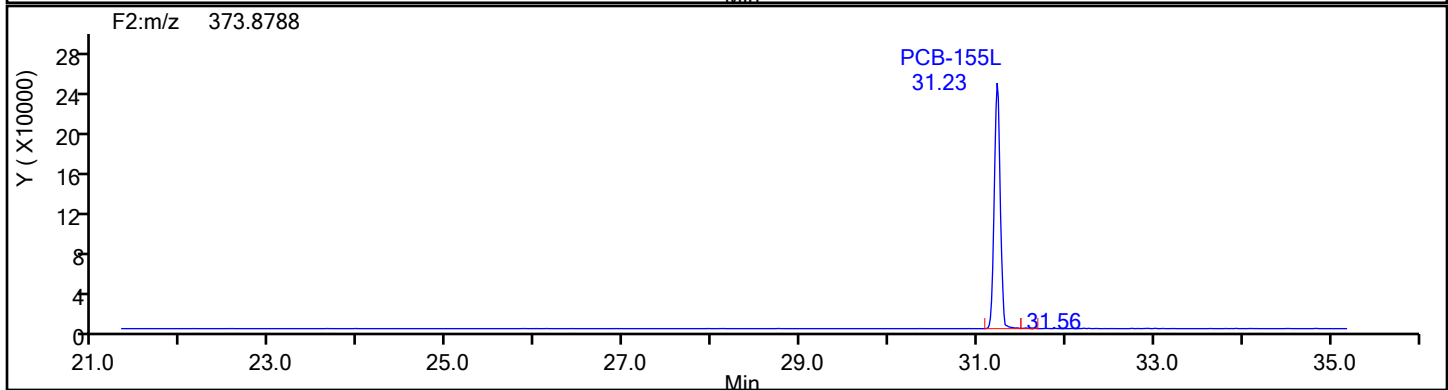
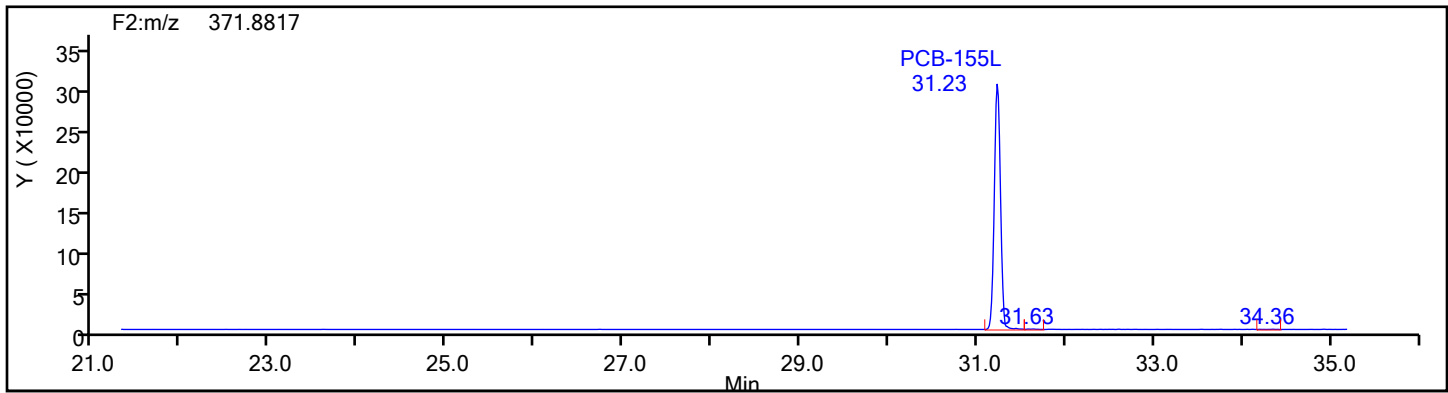
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

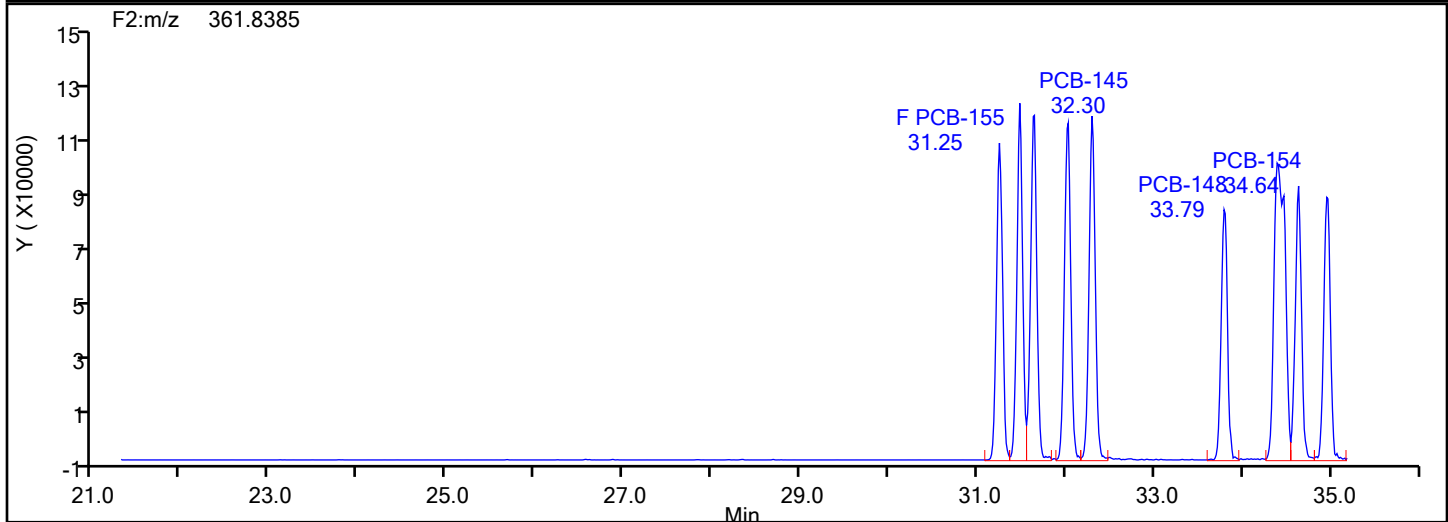
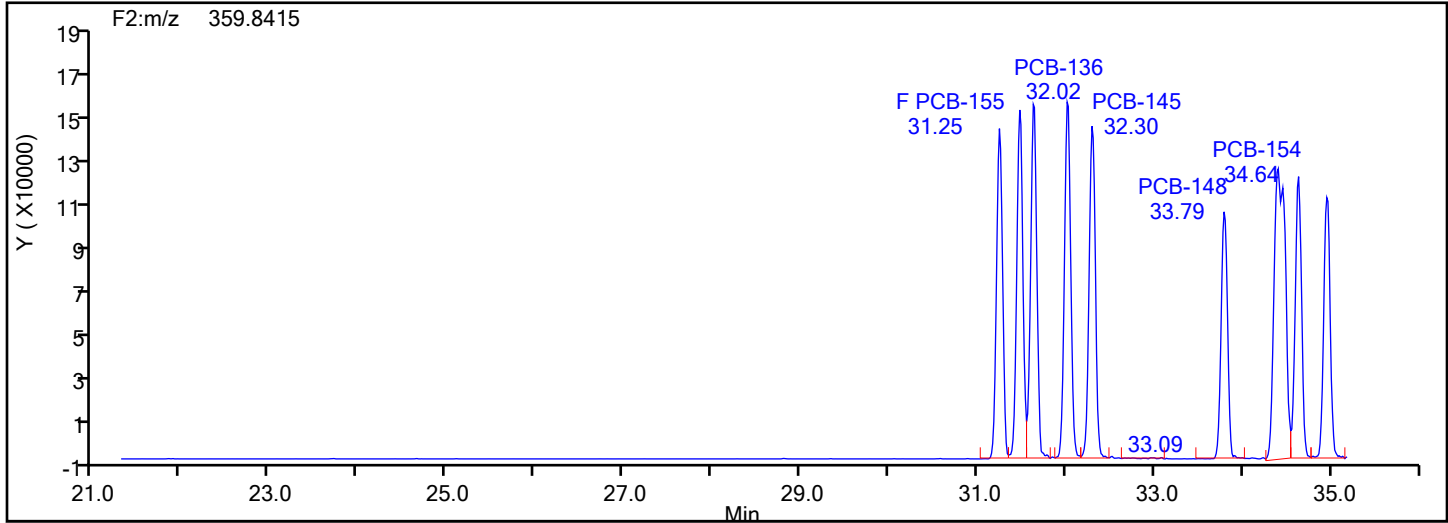


HxPCB F2 Standards

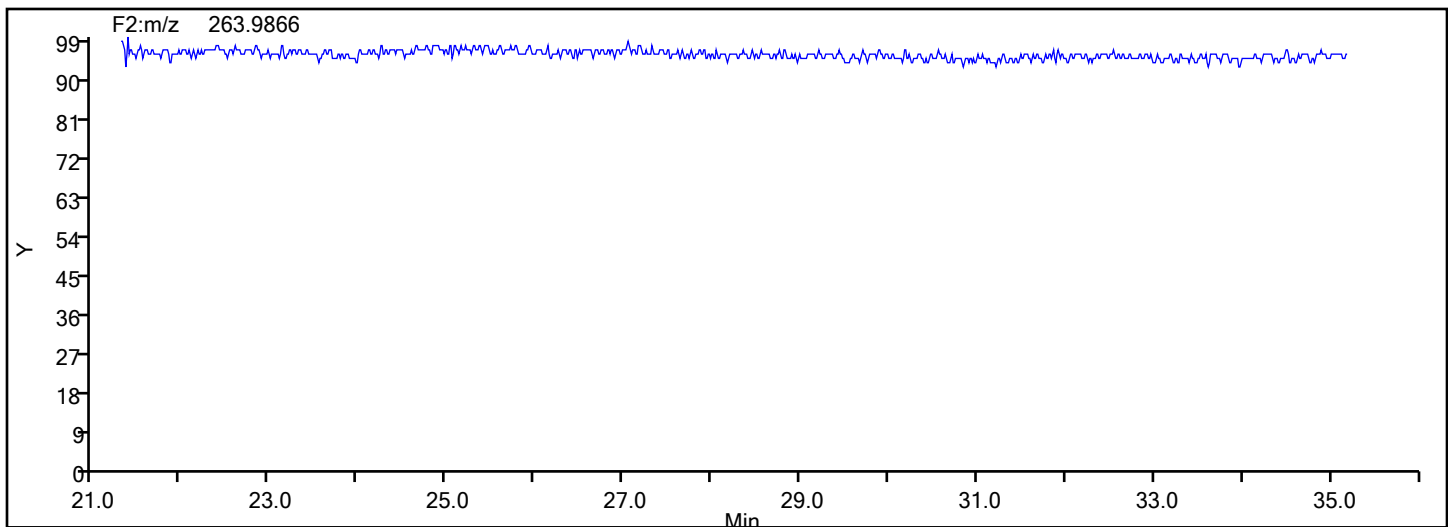


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d
Injection Date: 15-Jul-2024 13:44:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 2
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

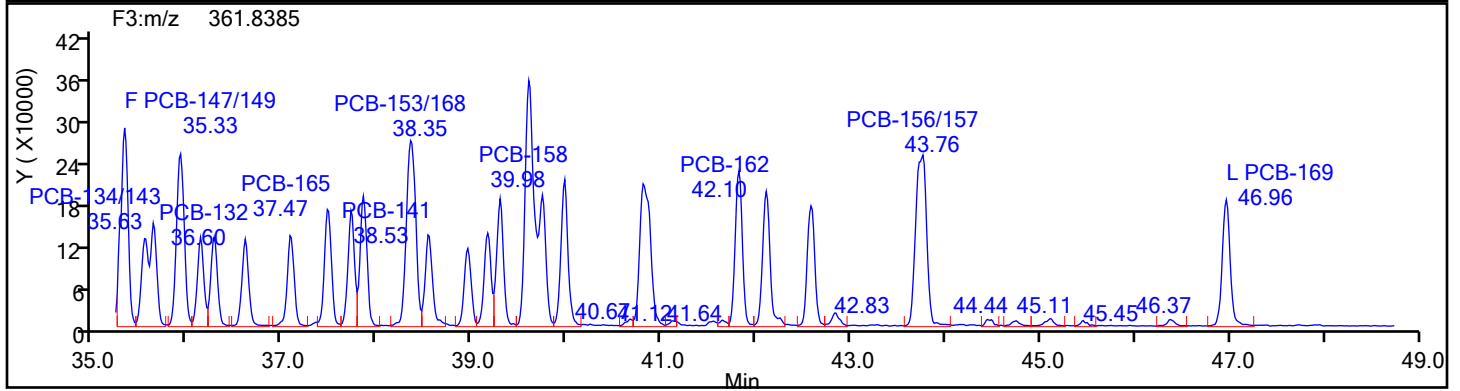
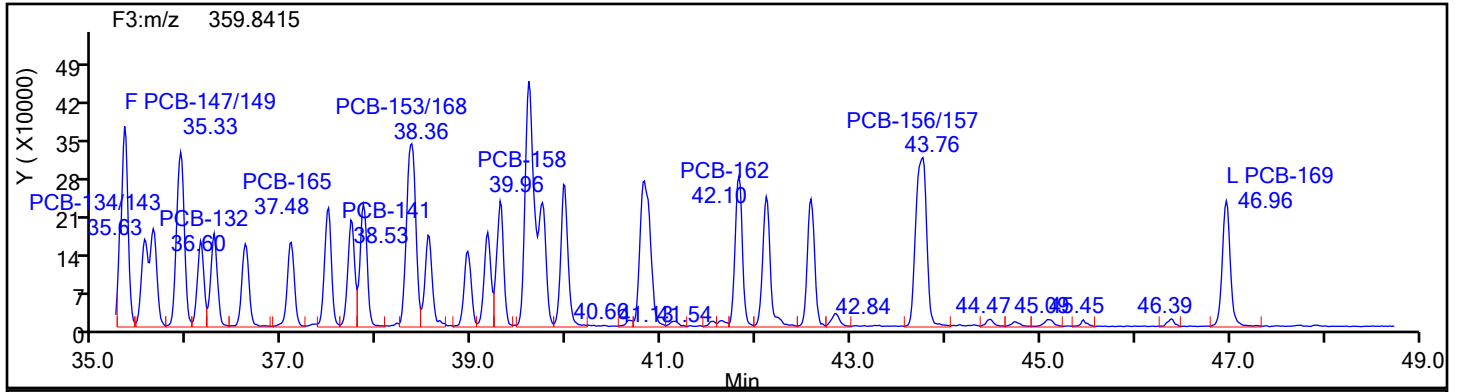
Worklist#: 88747

Sample Line#: 2

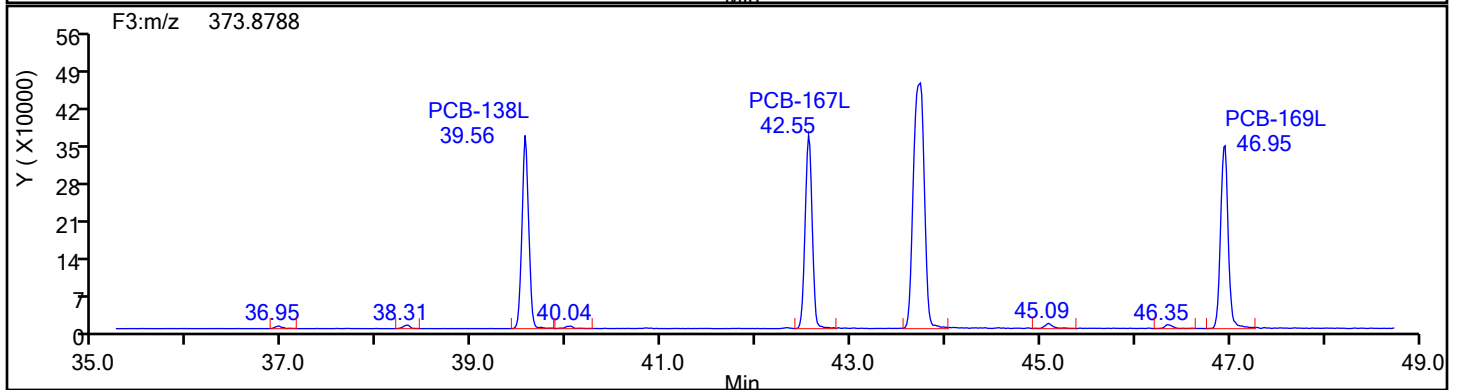
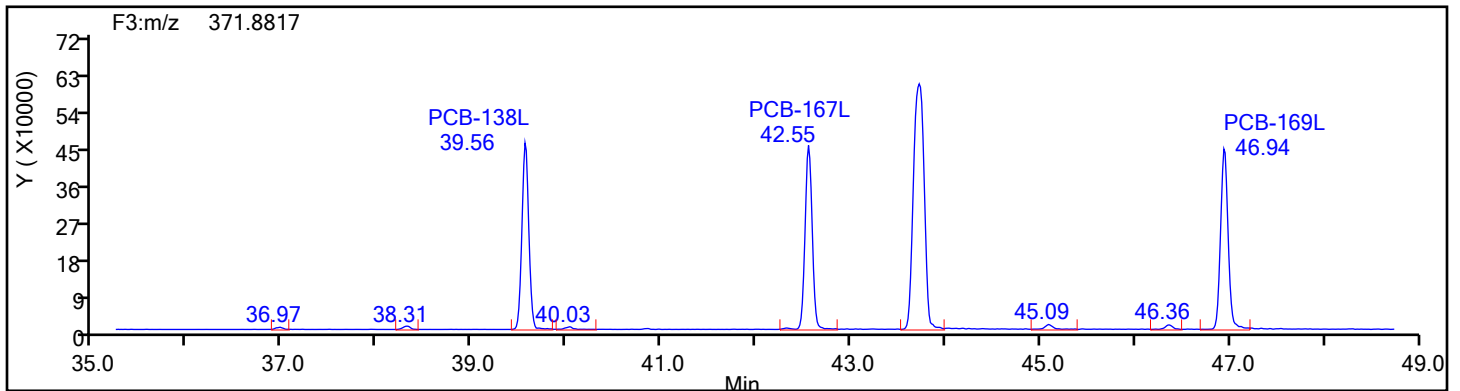
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

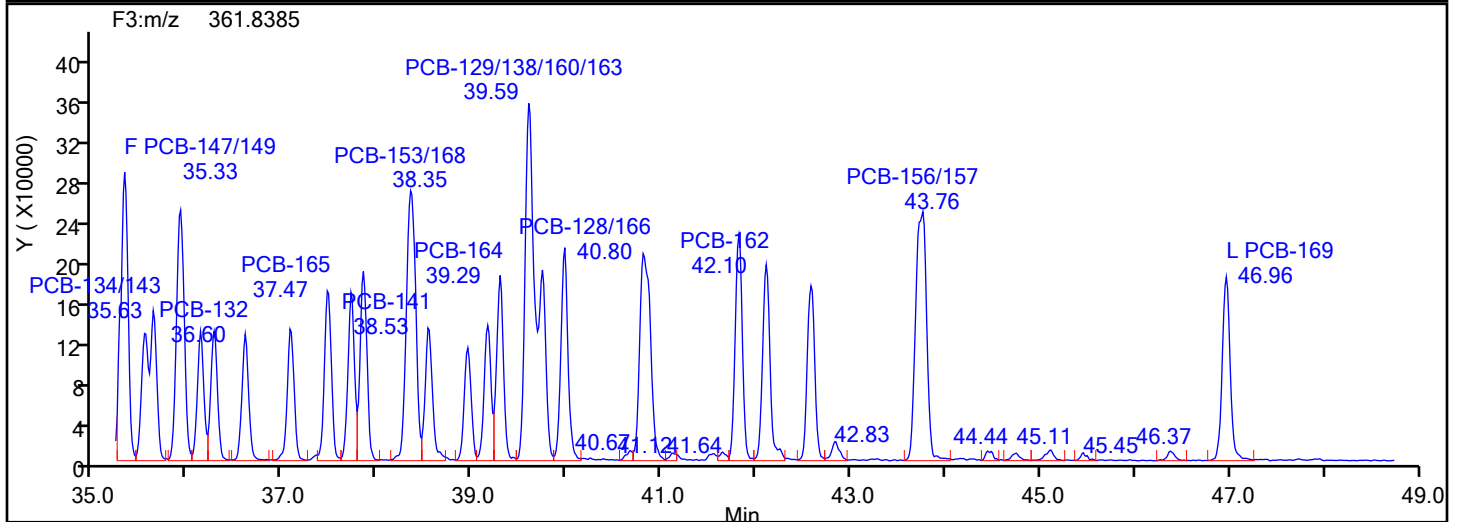
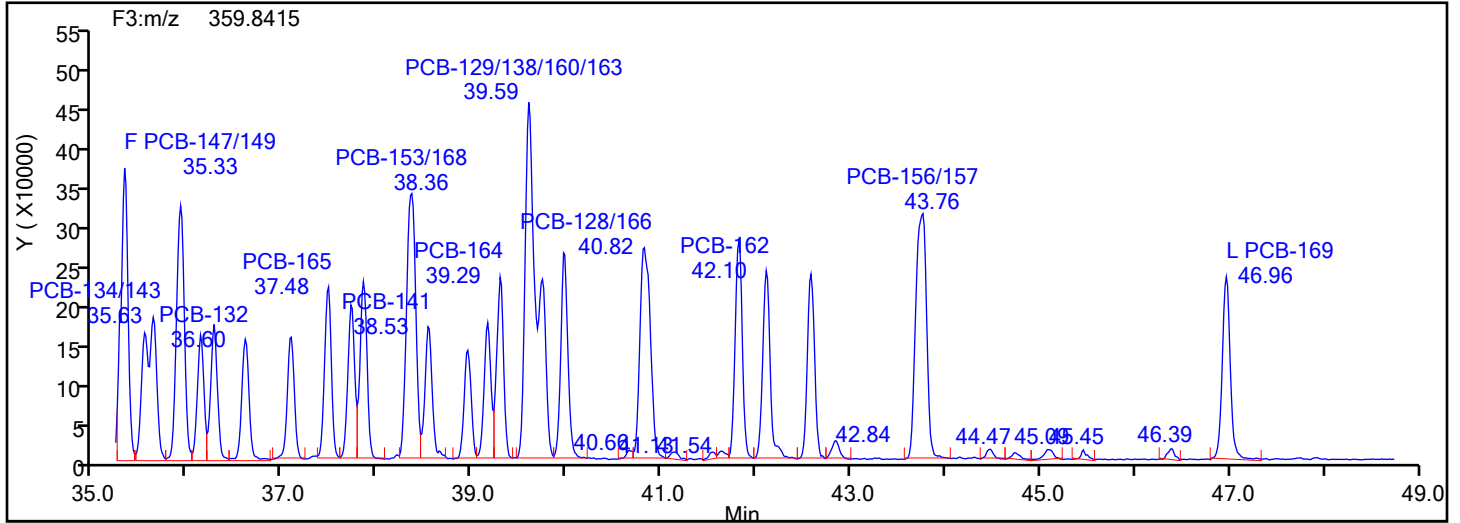
Worklist#: 88747

Sample Line#: 2

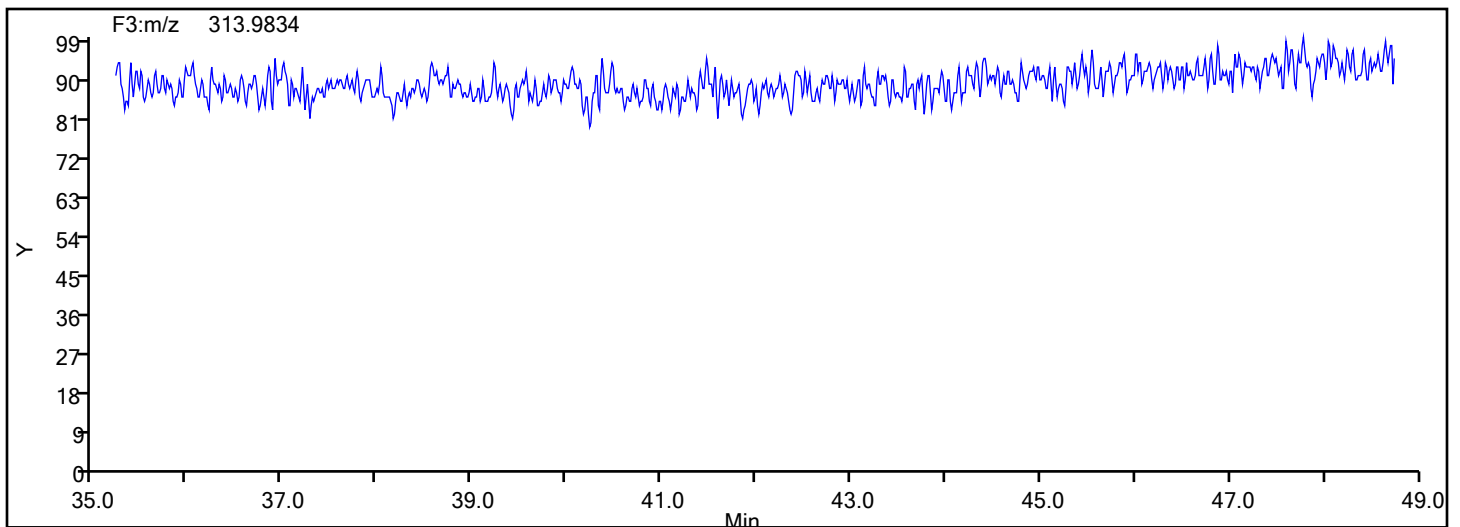
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Instrument ID: D2D

Lims ID: LCS 140-88193/19-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

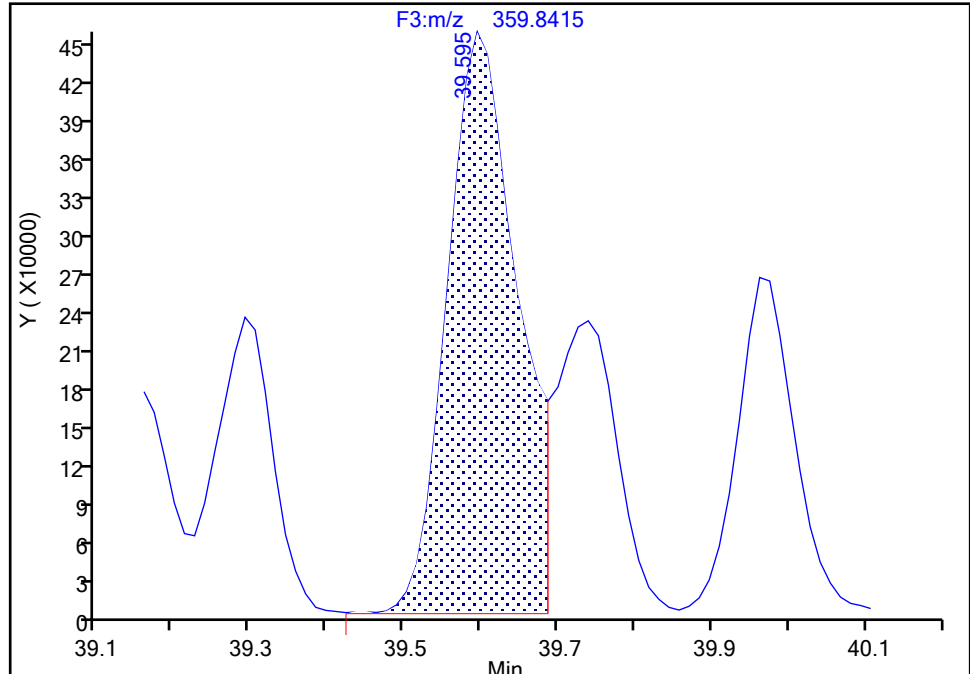
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

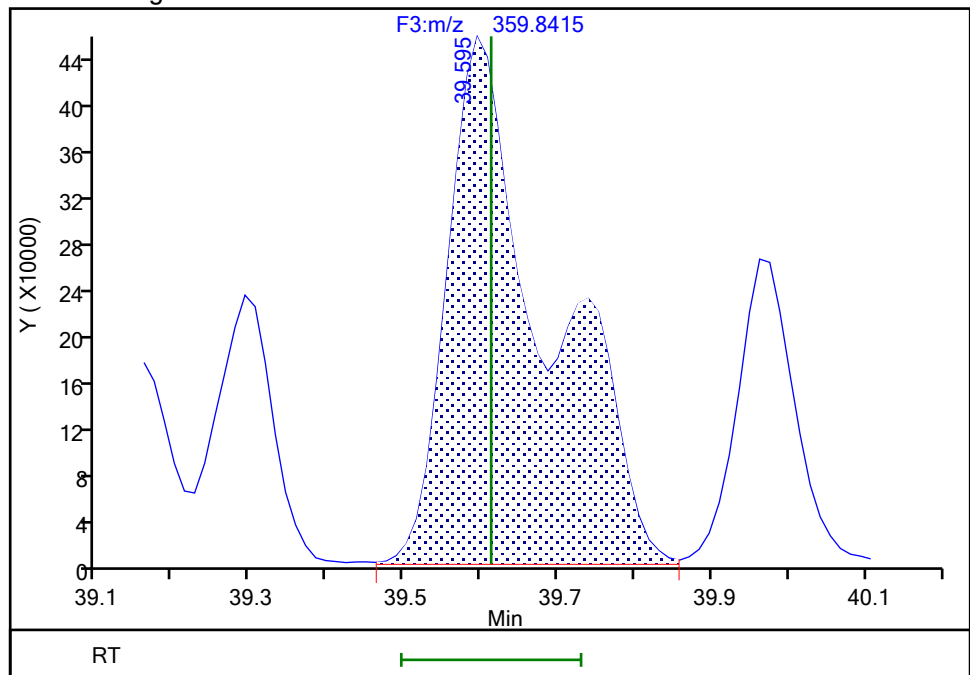
RT: 39.59
Area: 2832584
Amount: 123.1409
Amount Units: pg/ul

Processing Integration Results



RT: 39.59
Area: 4056010
Amount: 177.0668
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:41:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Instrument ID: D2D

Lims ID: LCS 140-88193/19-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

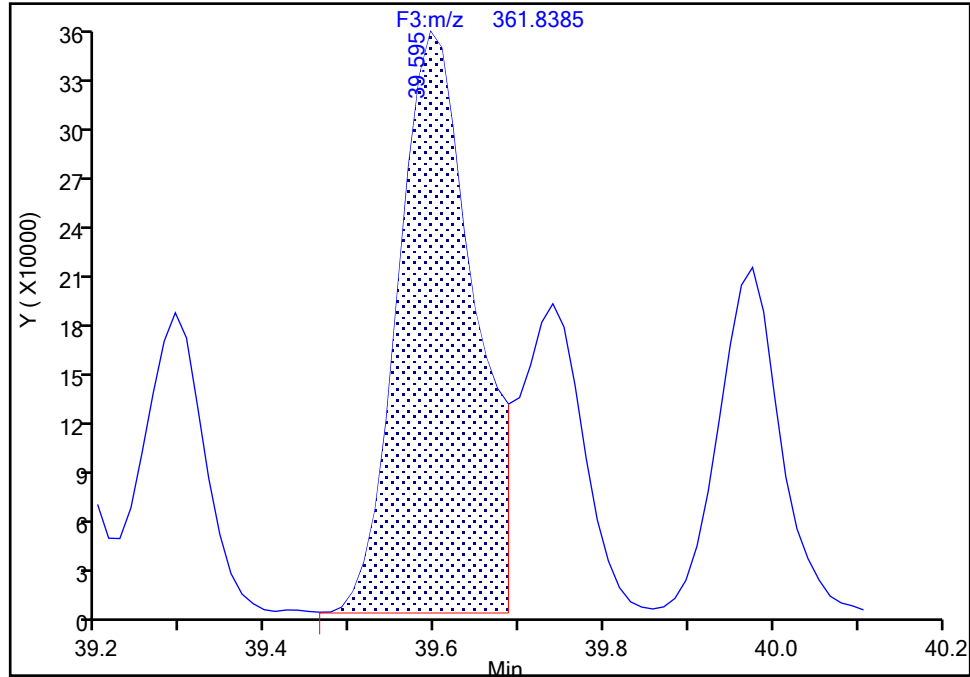
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

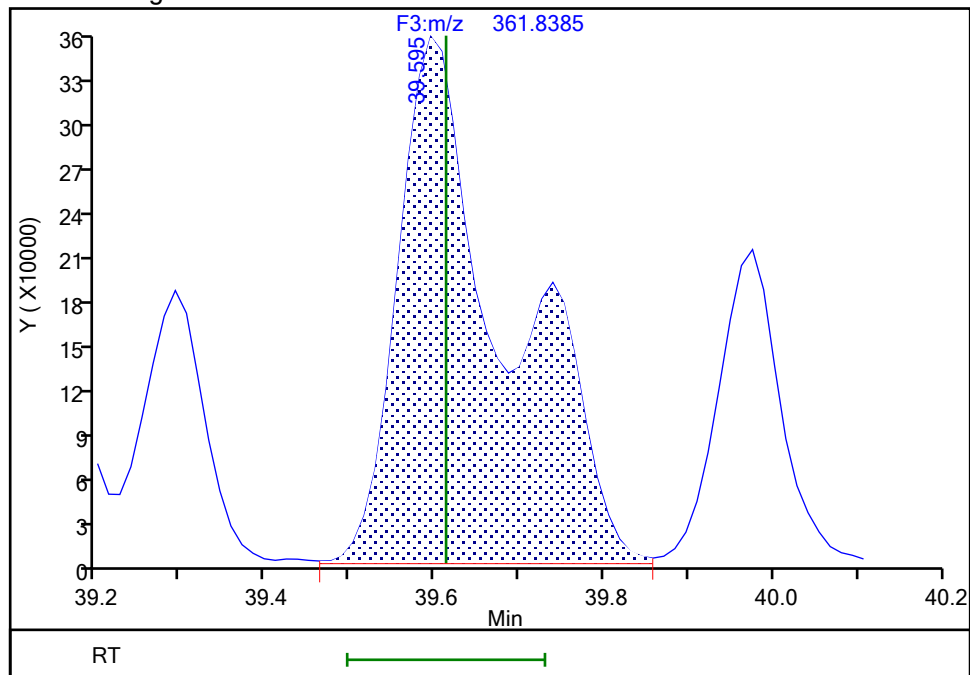
RT: 39.59
Area: 2209227
Amount: 123.1409
Amount Units: pg/ul

Processing Integration Results



RT: 39.59
Area: 3193715
Amount: 177.0668
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:41:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2953 of 3050

BASFWHC-McIntosh-010954

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

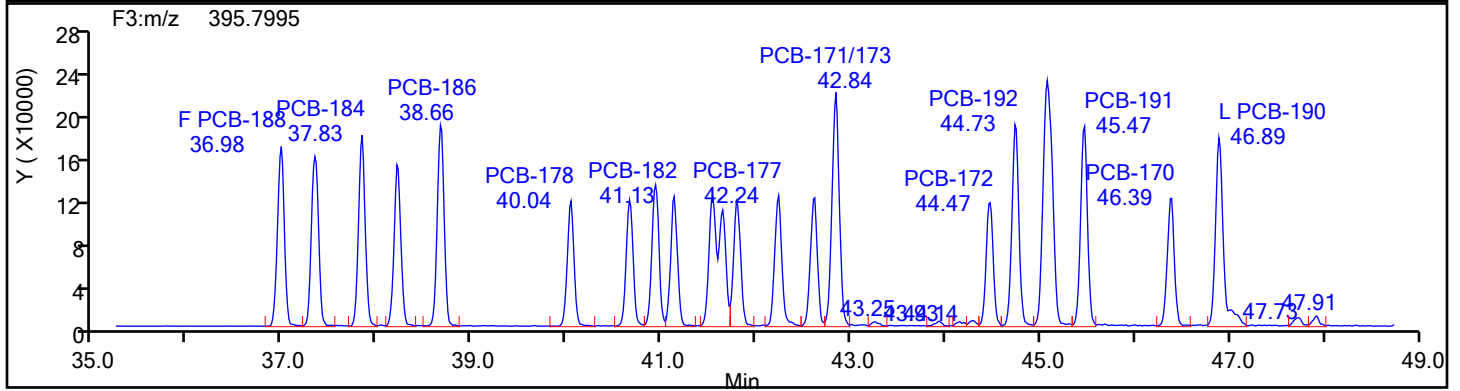
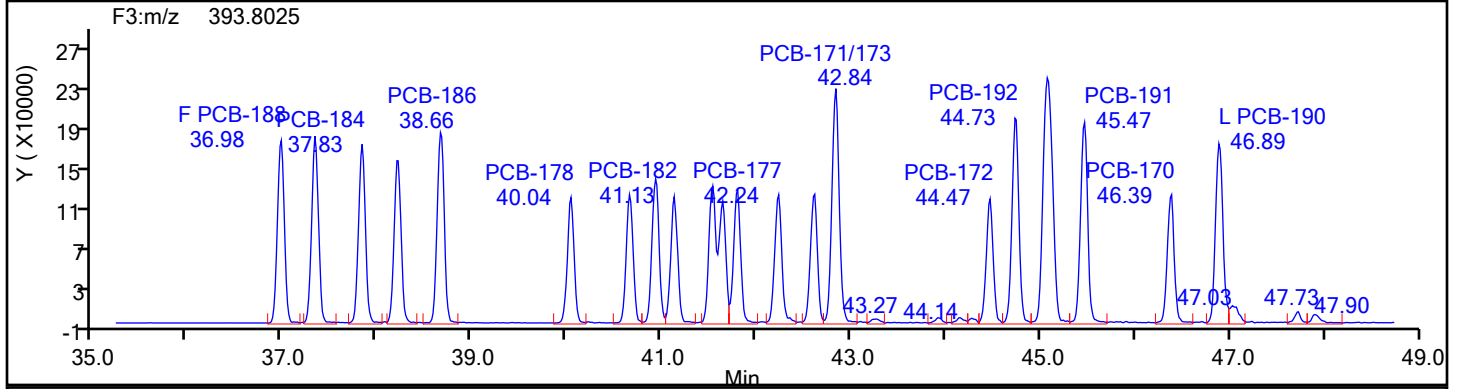
Worklist#: 88747

Sample Line#: 2

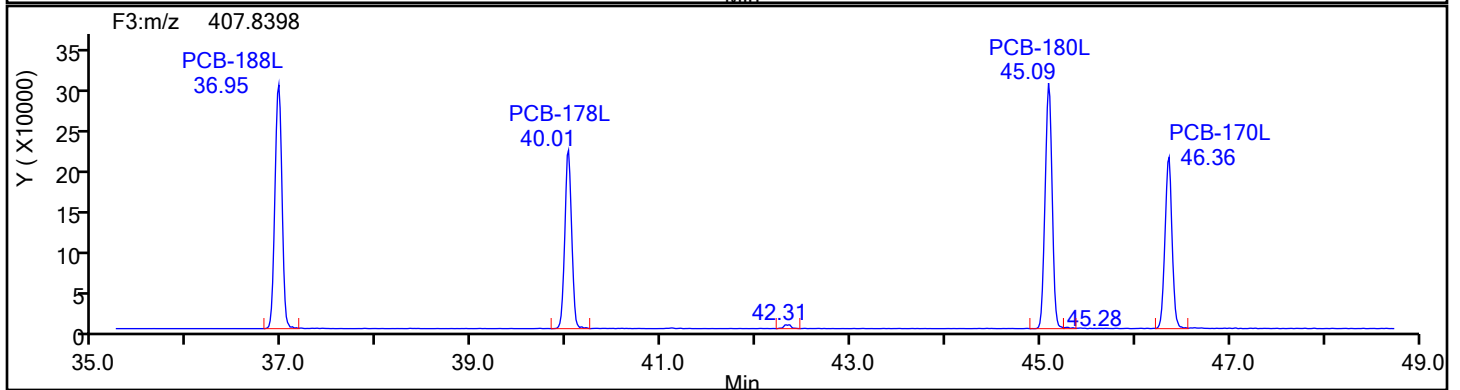
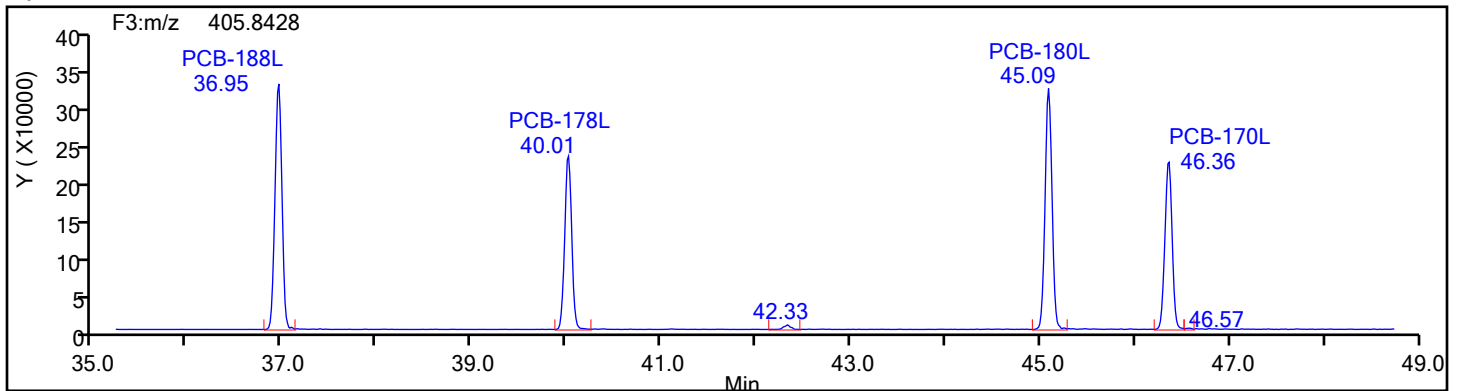
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

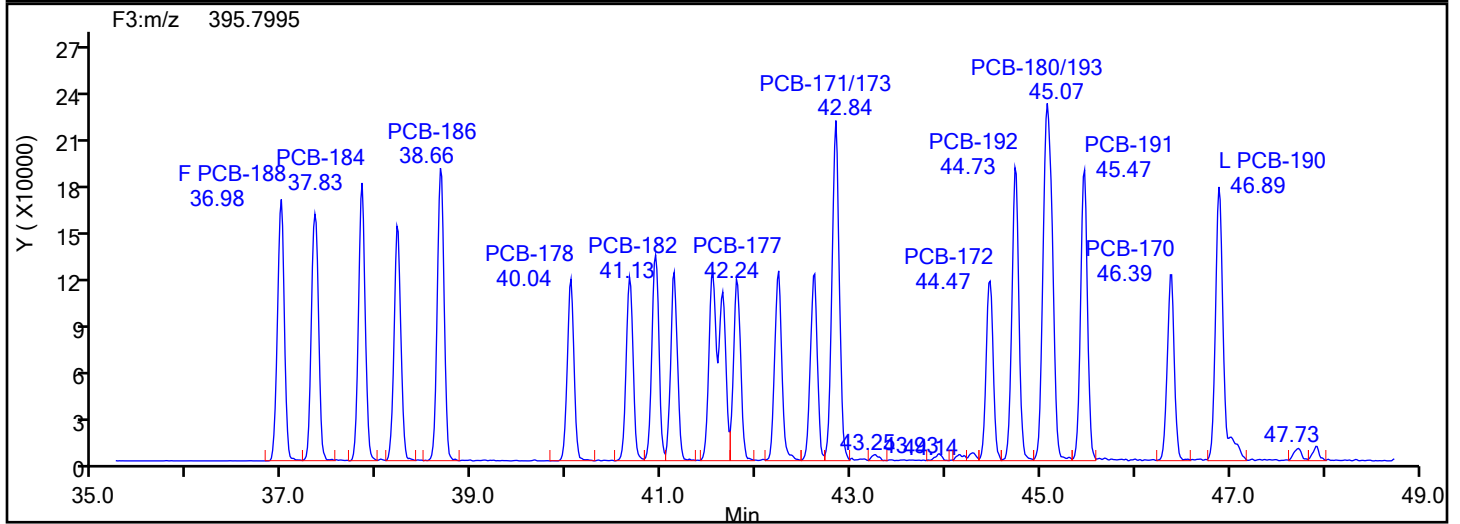
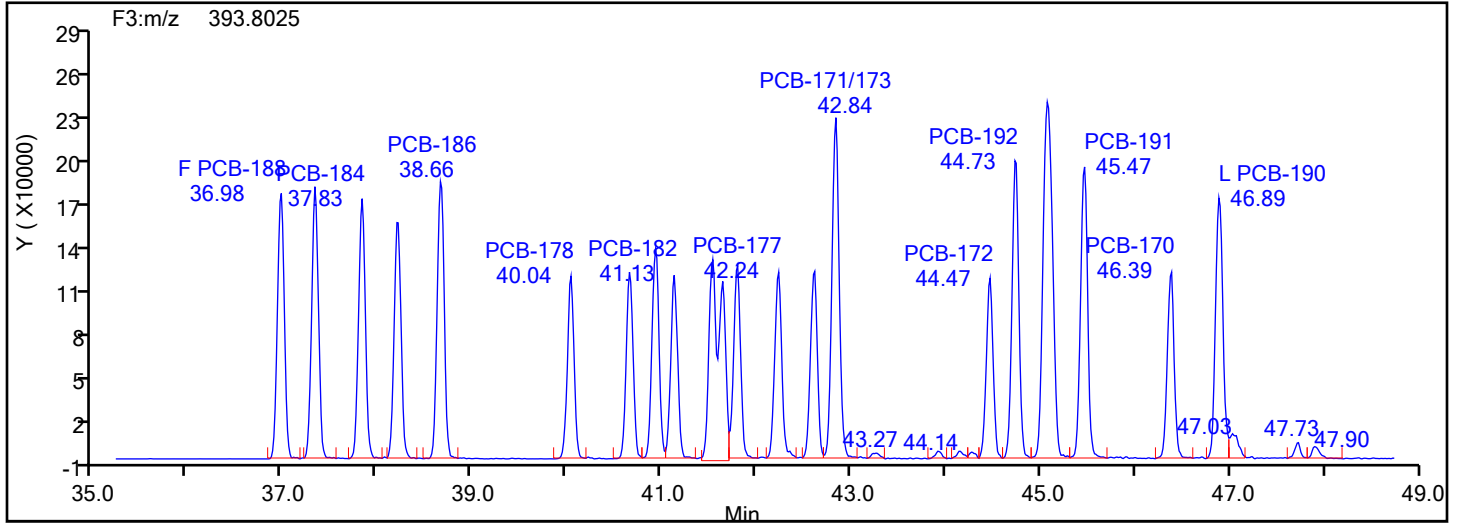
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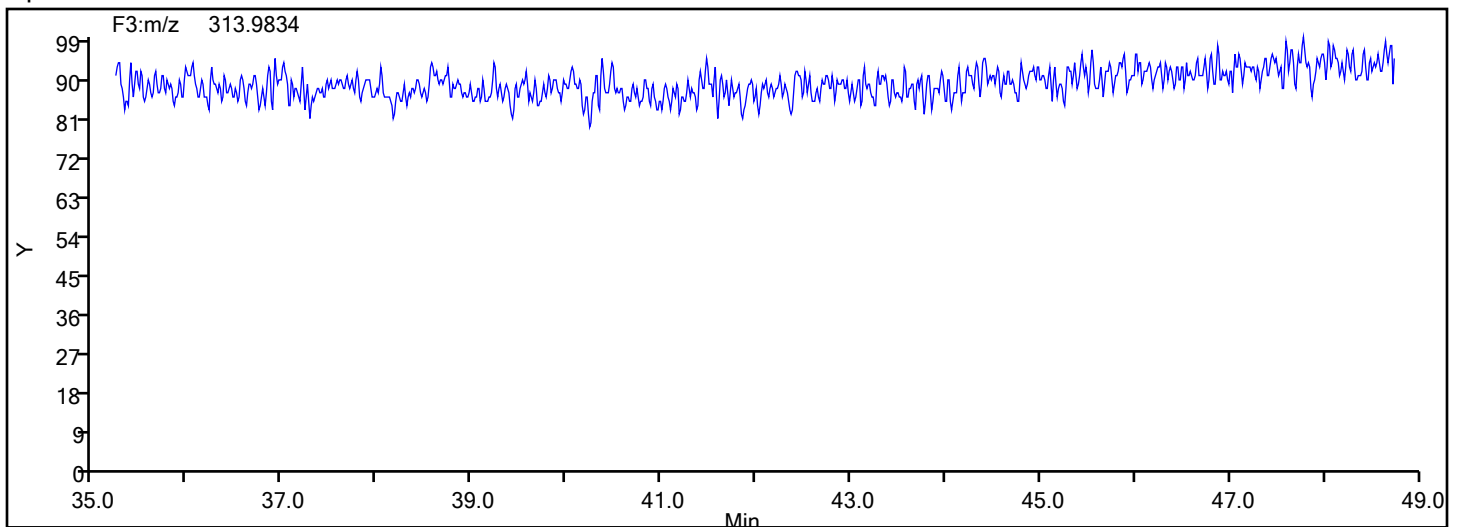
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

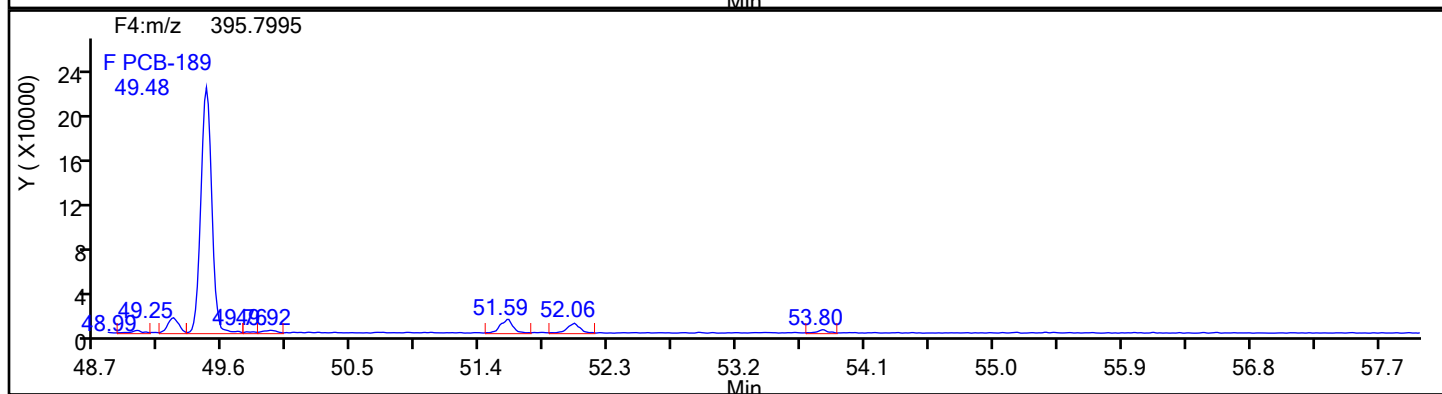
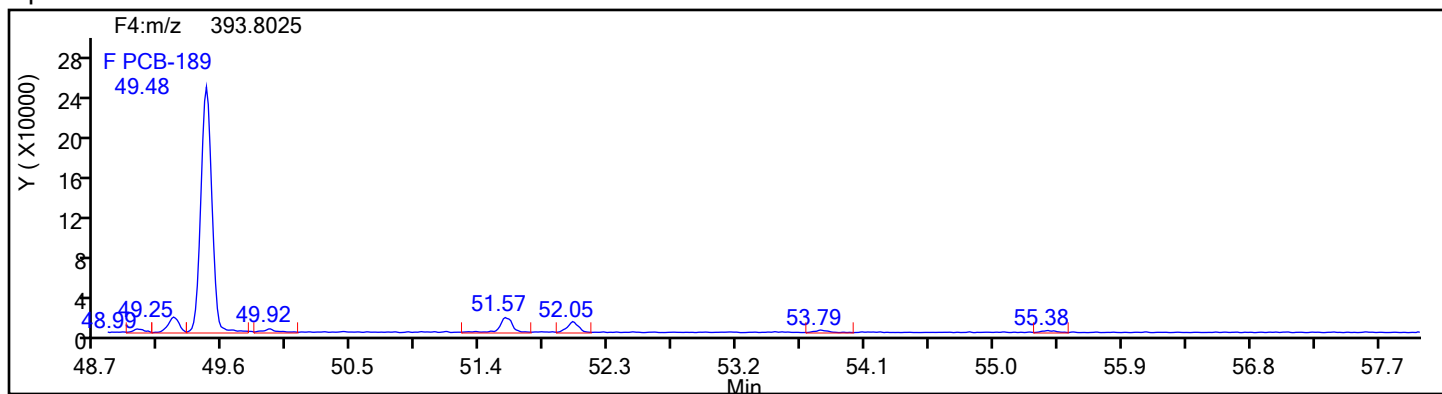
Worklist#: 88747

Sample Line#: 2

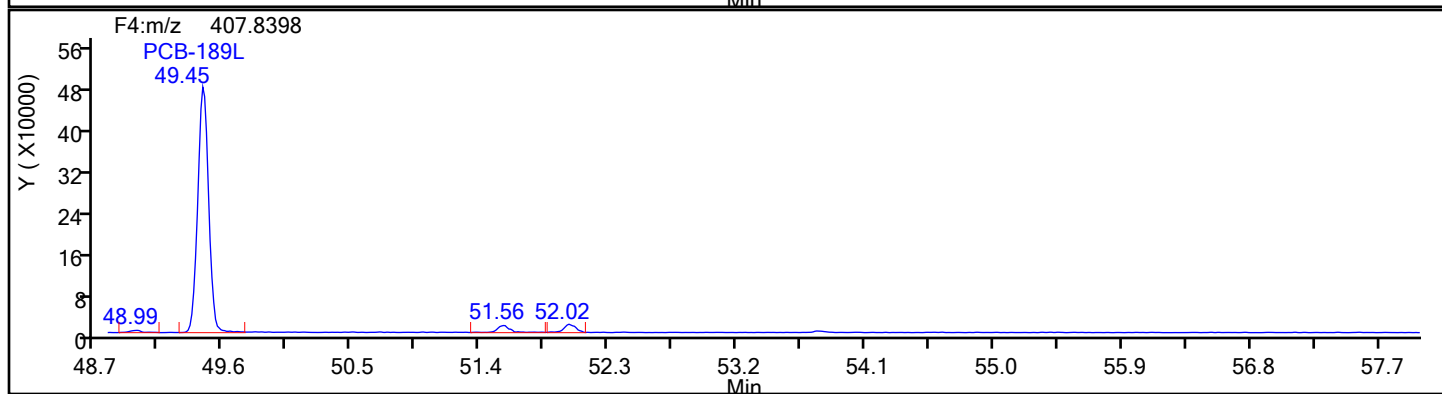
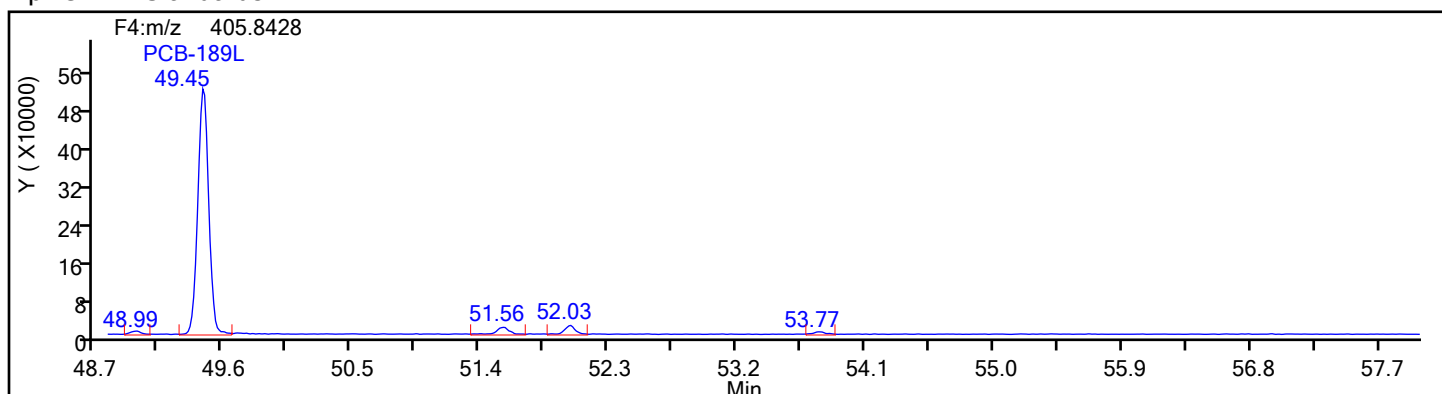
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

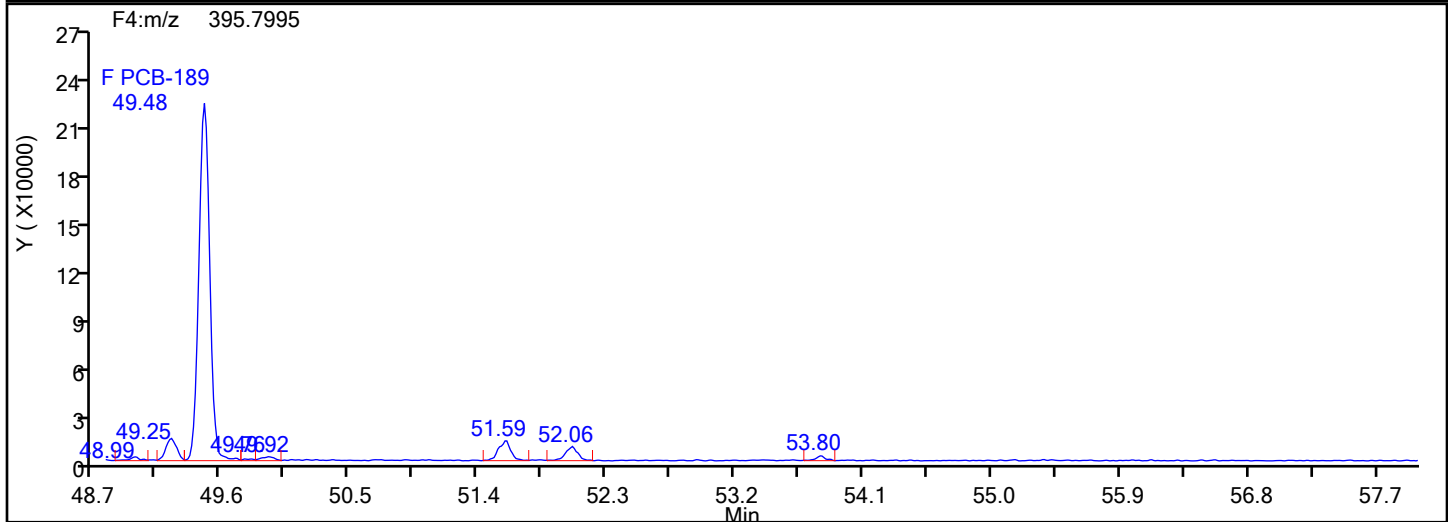
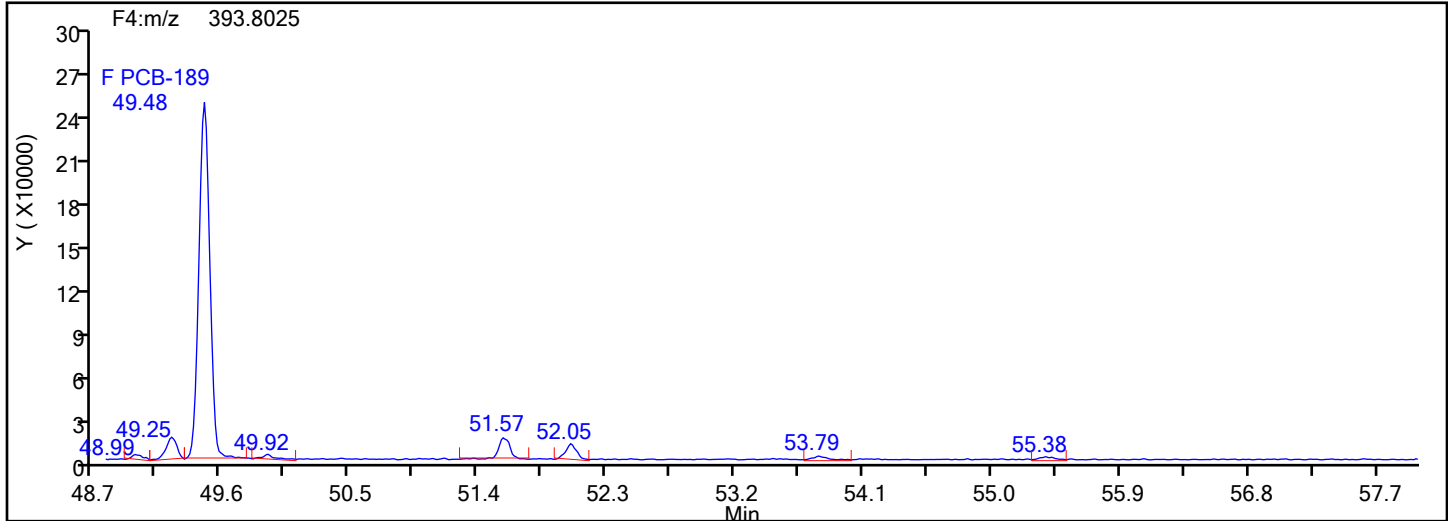
Worklist#: 88747

Sample Line#: 2

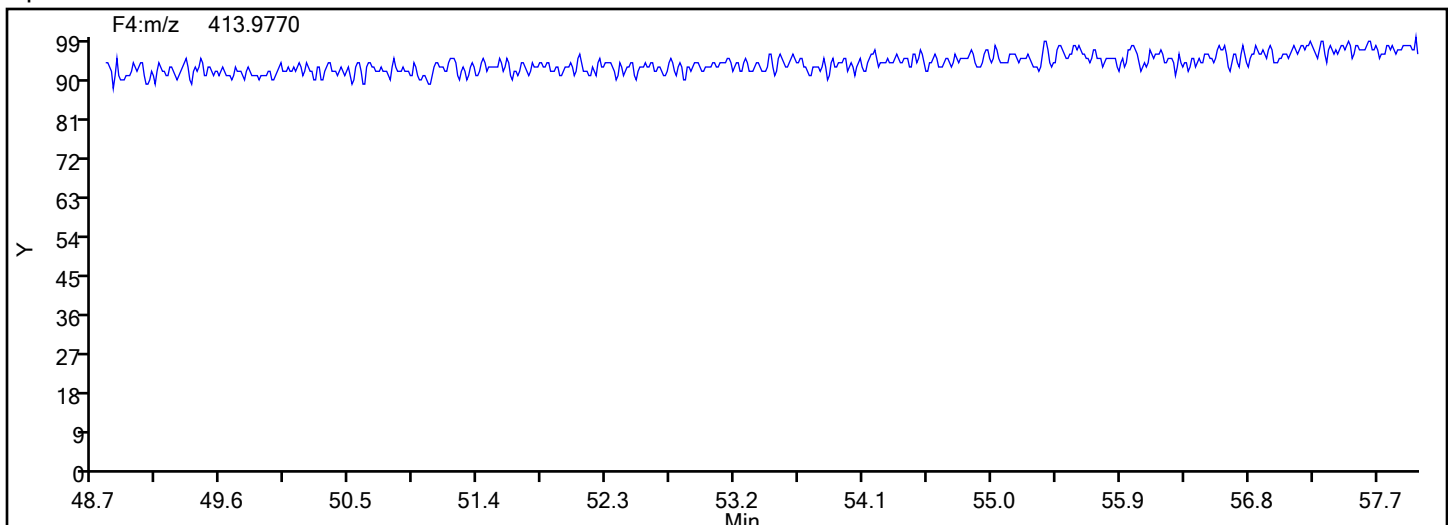
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

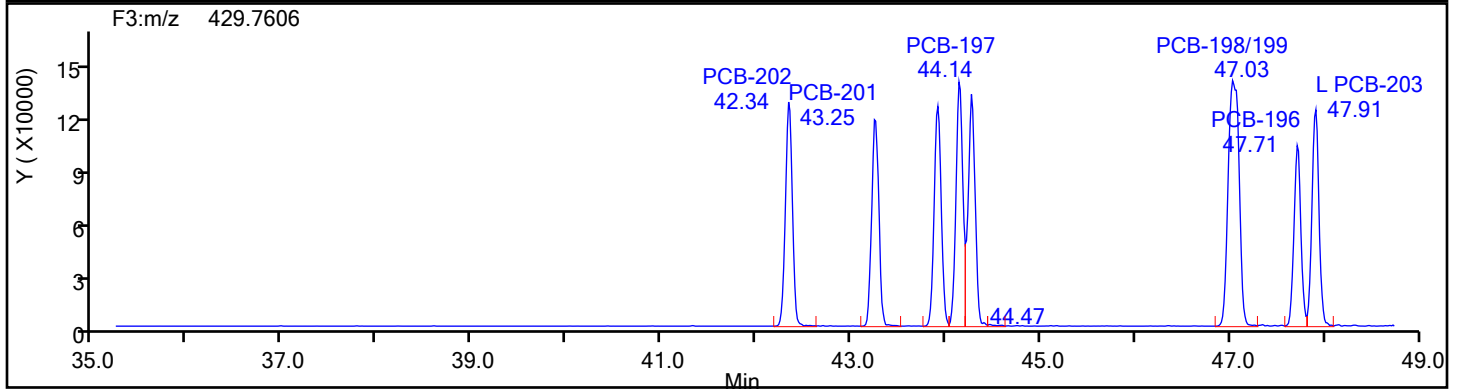
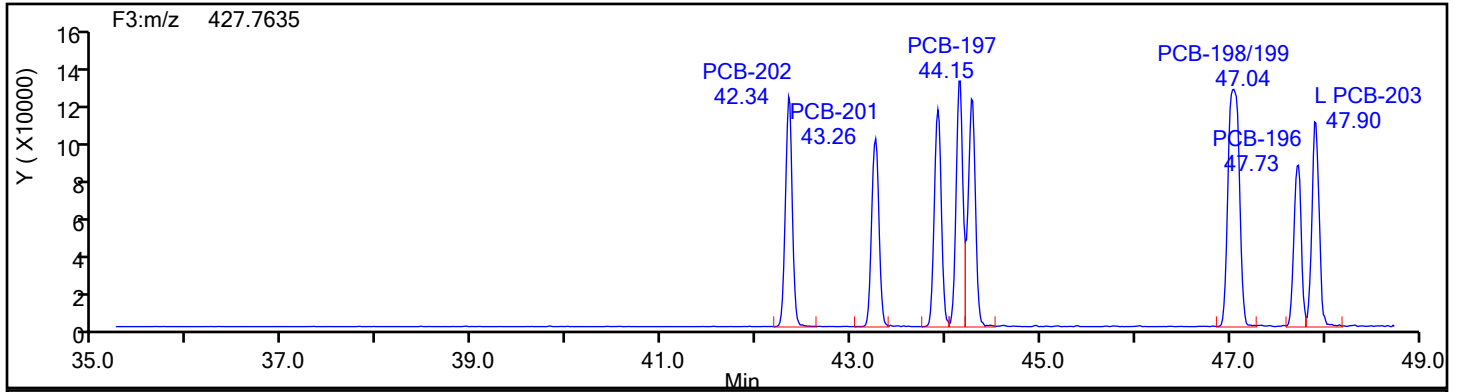
Worklist#: 88747

Sample Line#: 2

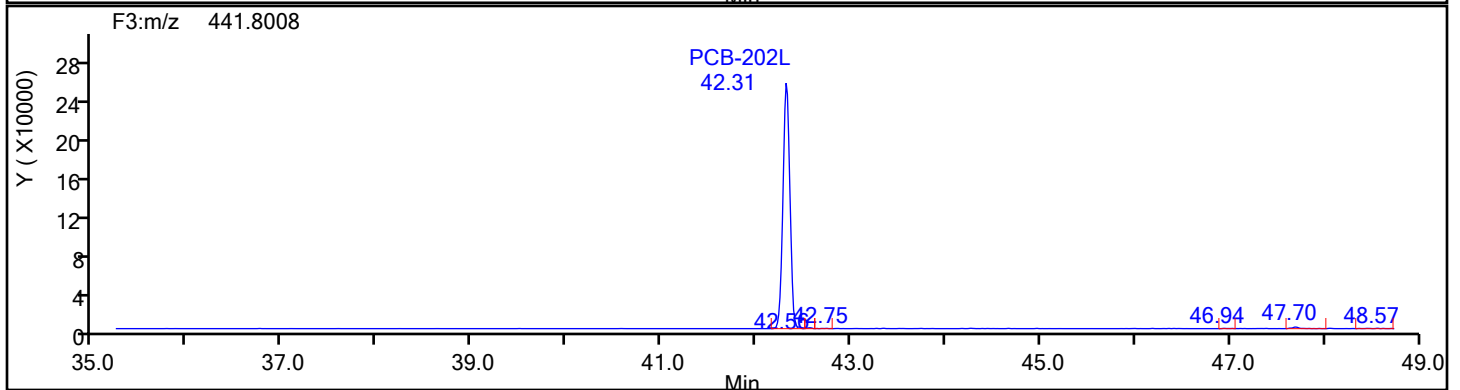
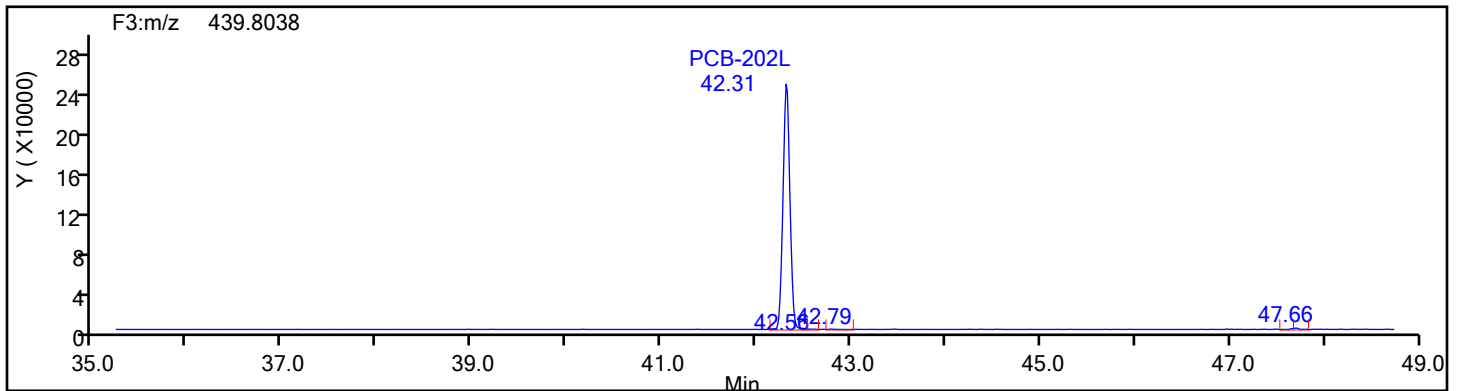
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

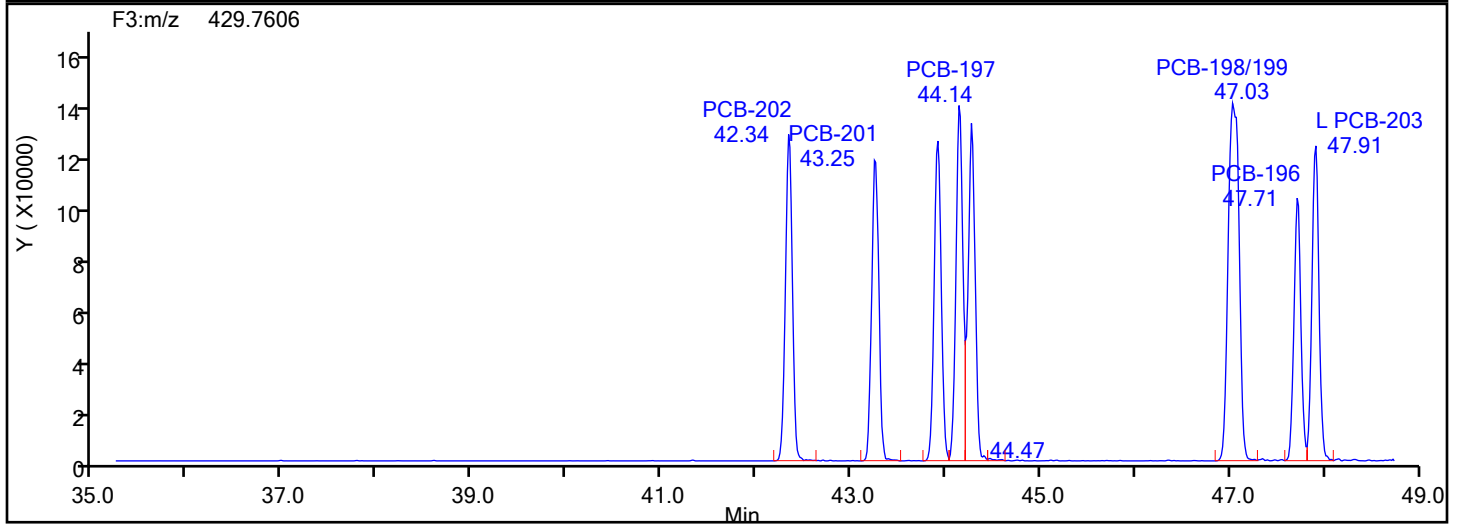
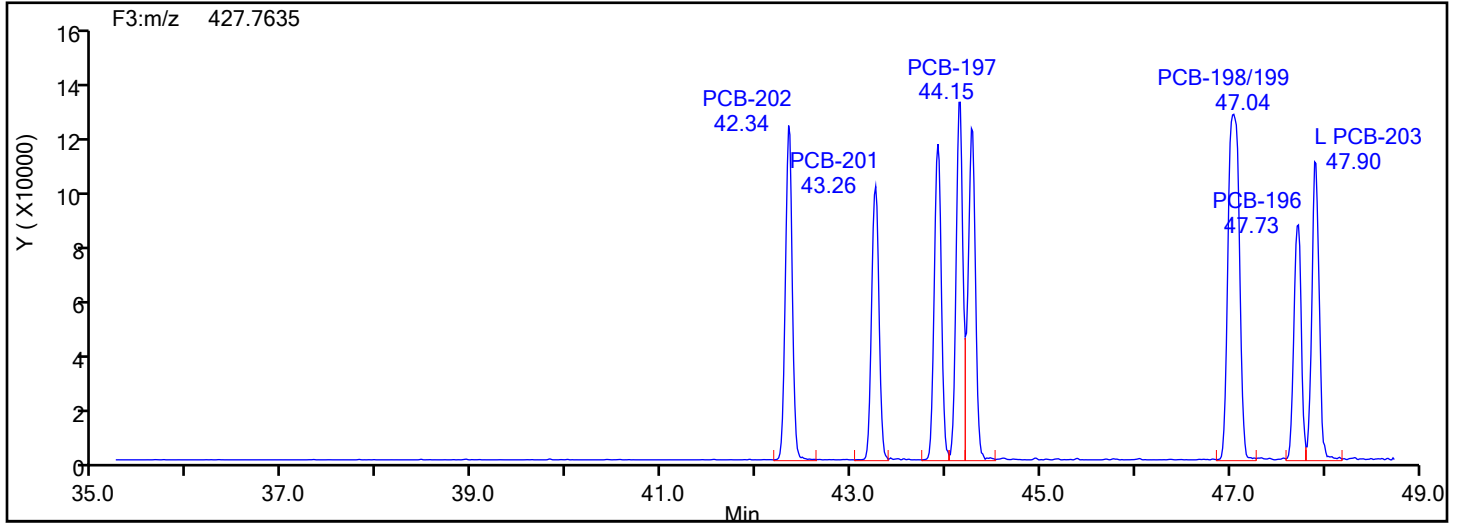
Worklist#: 88747

Sample Line#: 2

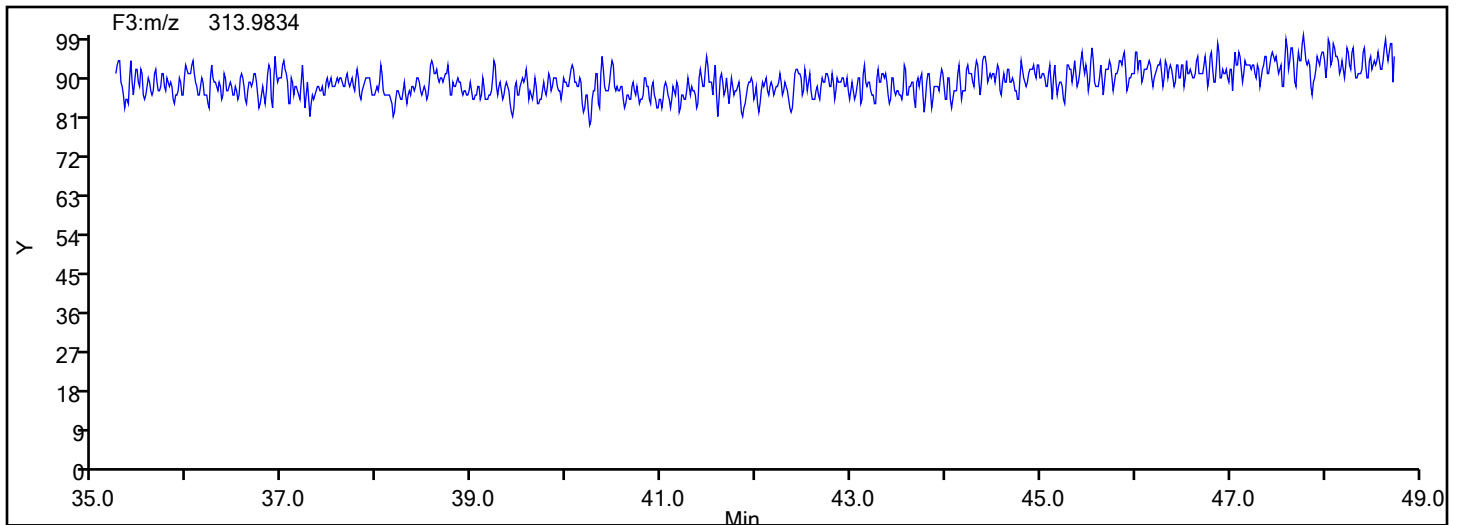
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

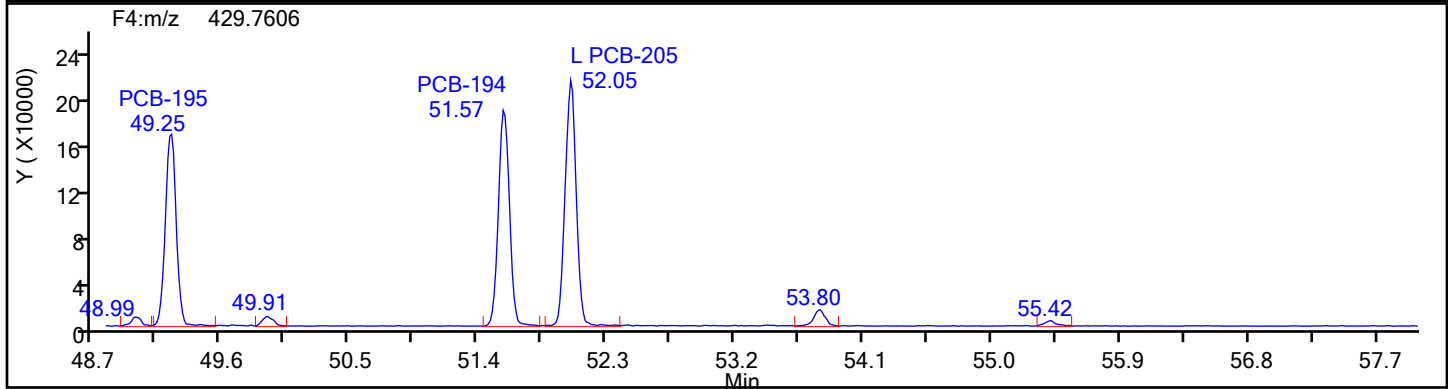
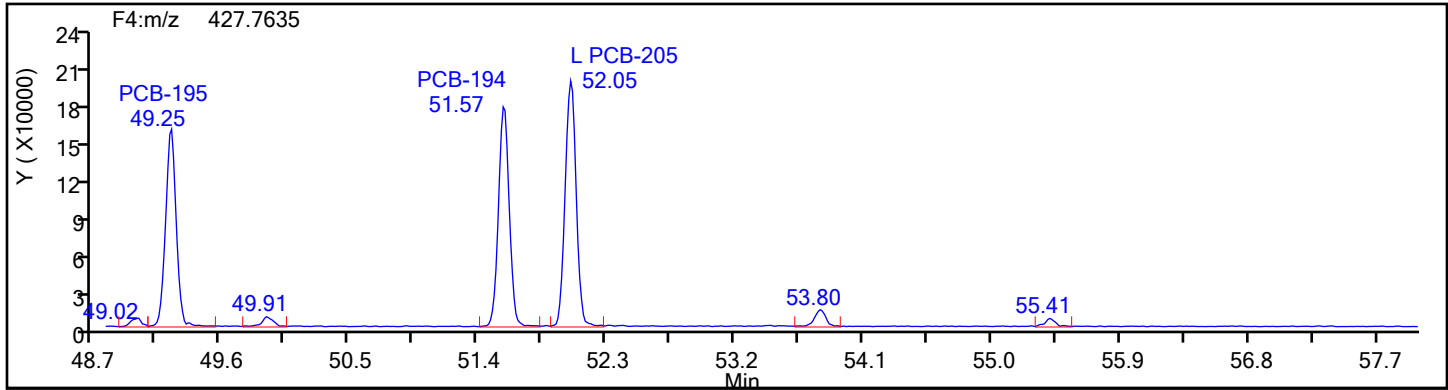
Worklist#: 88747

Sample Line#: 2

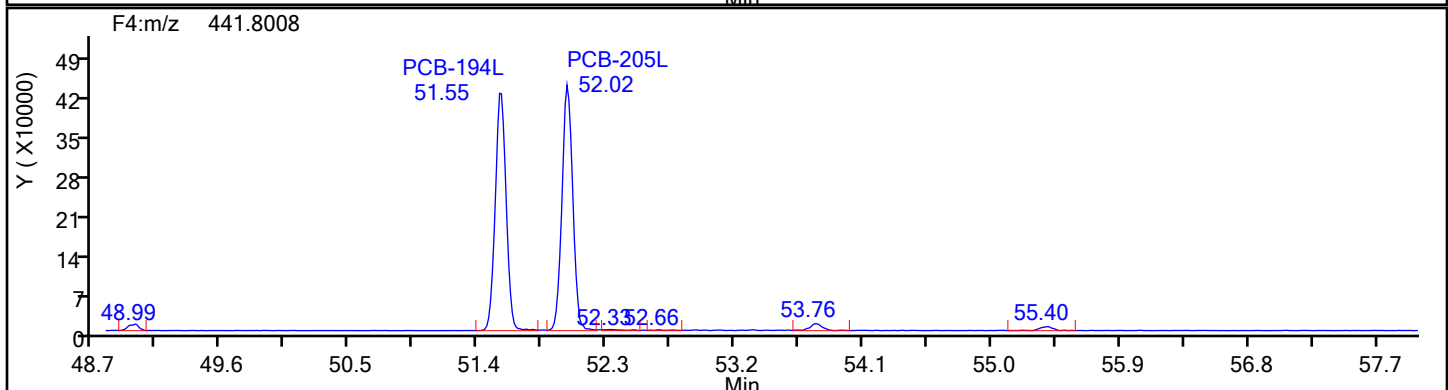
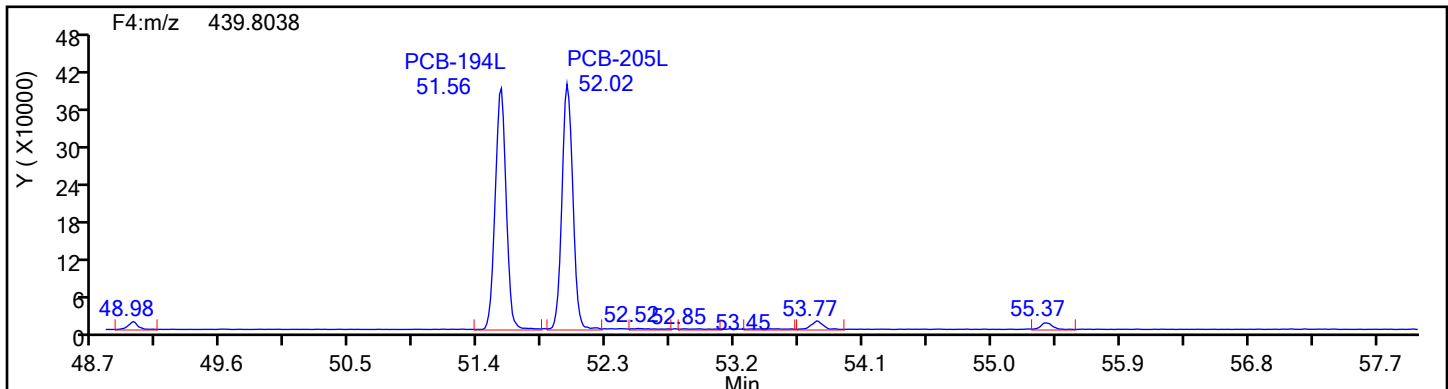
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

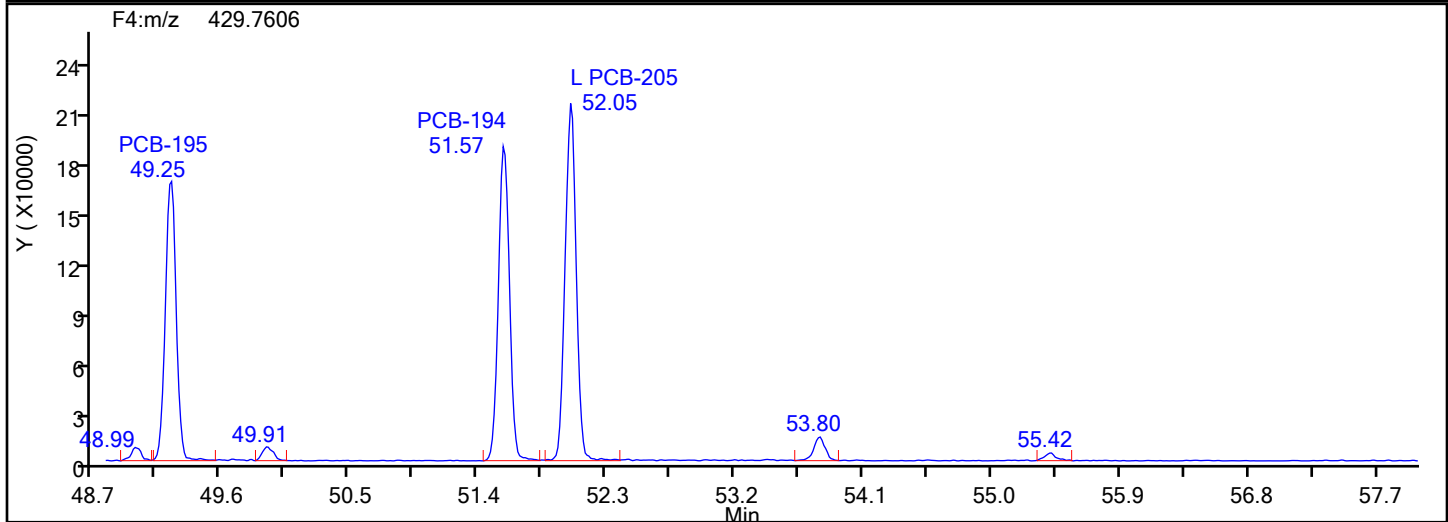
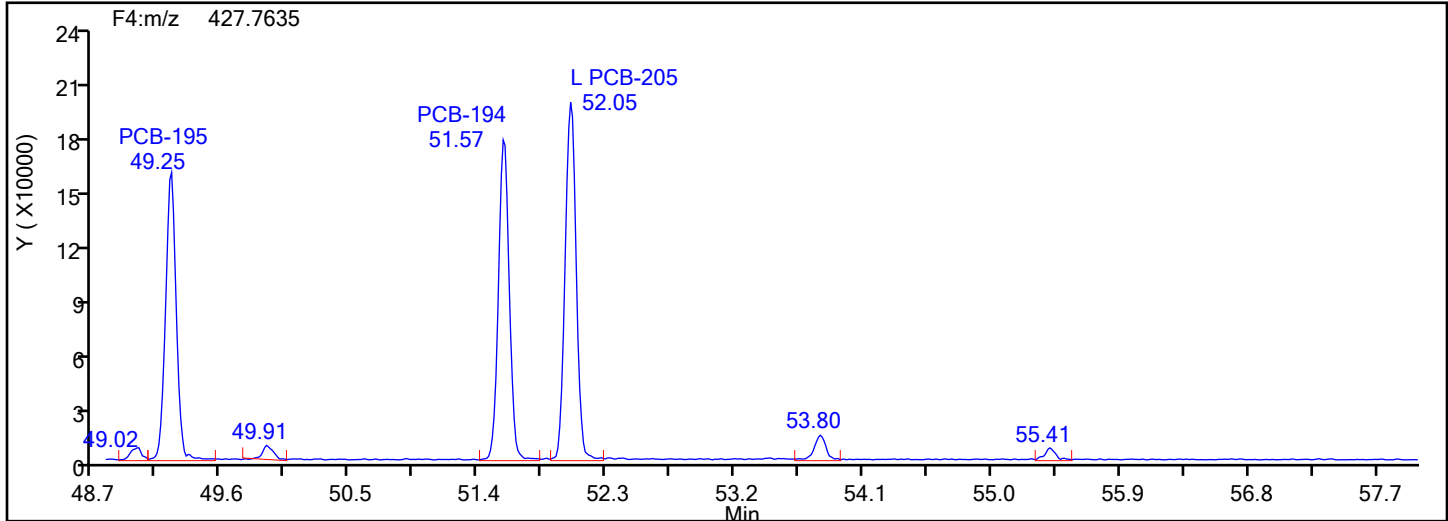
Worklist#: 88747

Sample Line#: 2

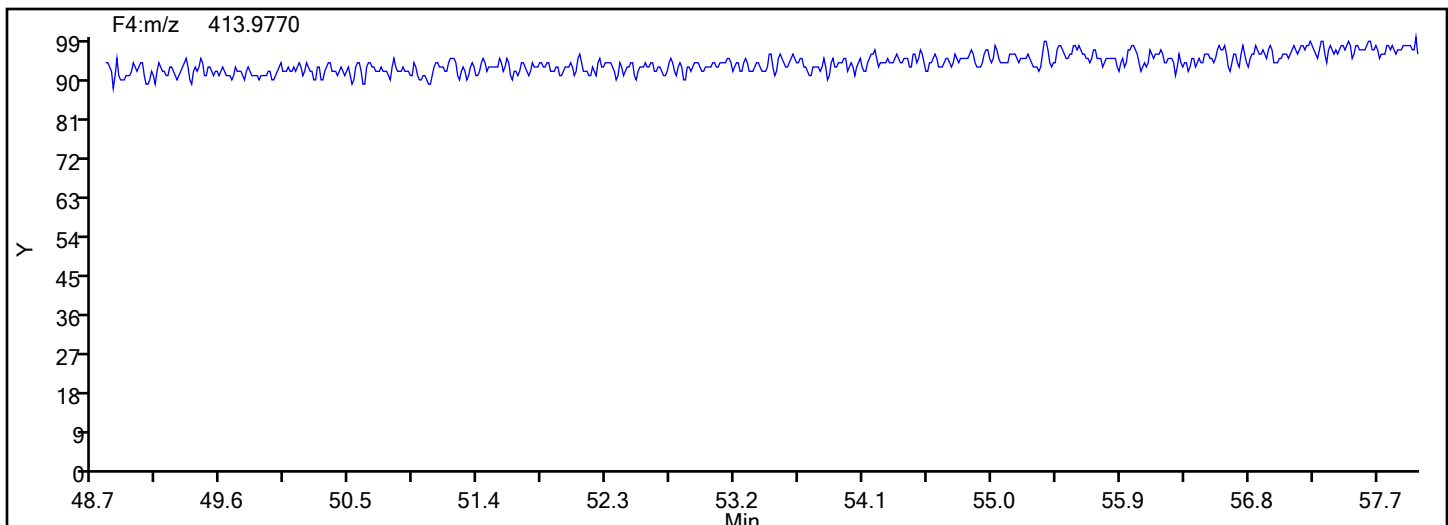
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

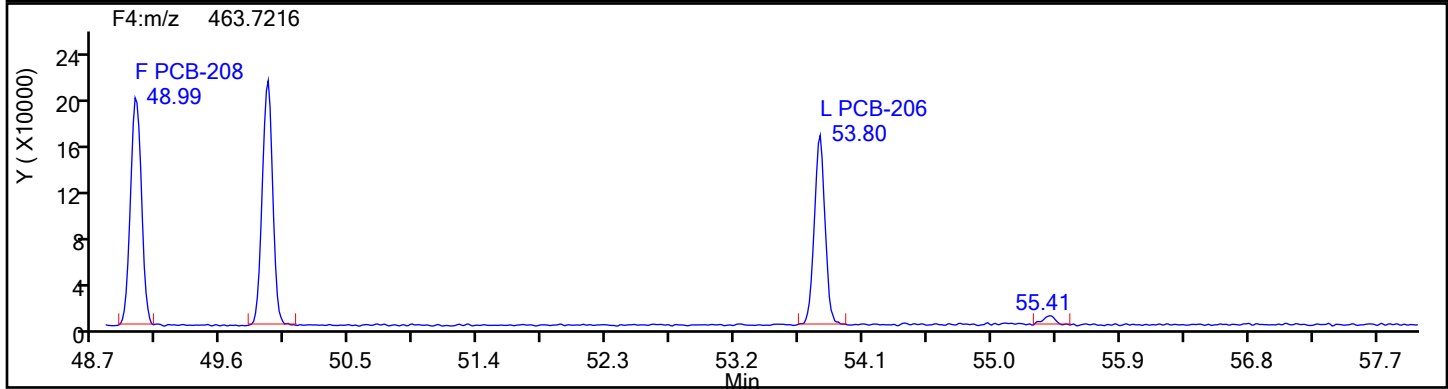
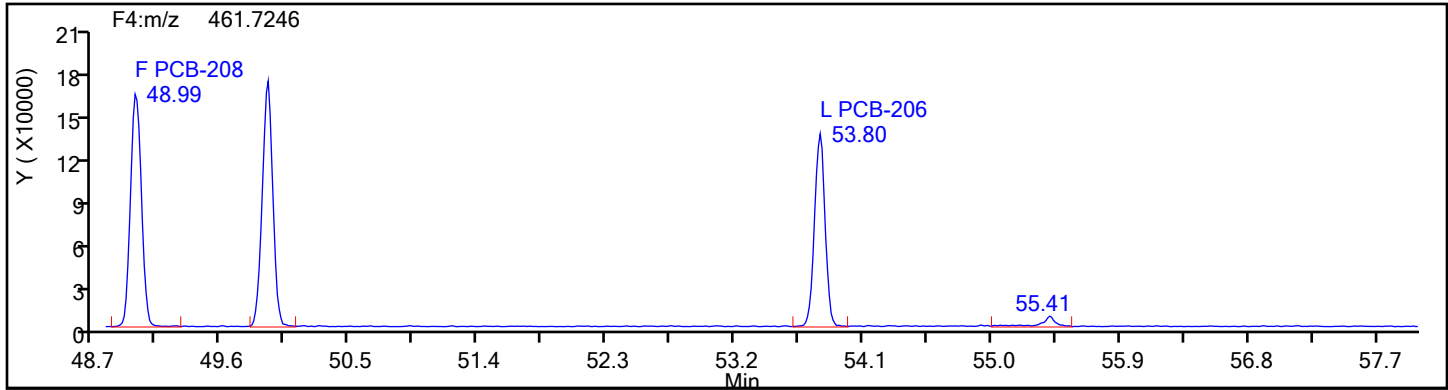
Worklist#: 88747

Sample Line#: 2

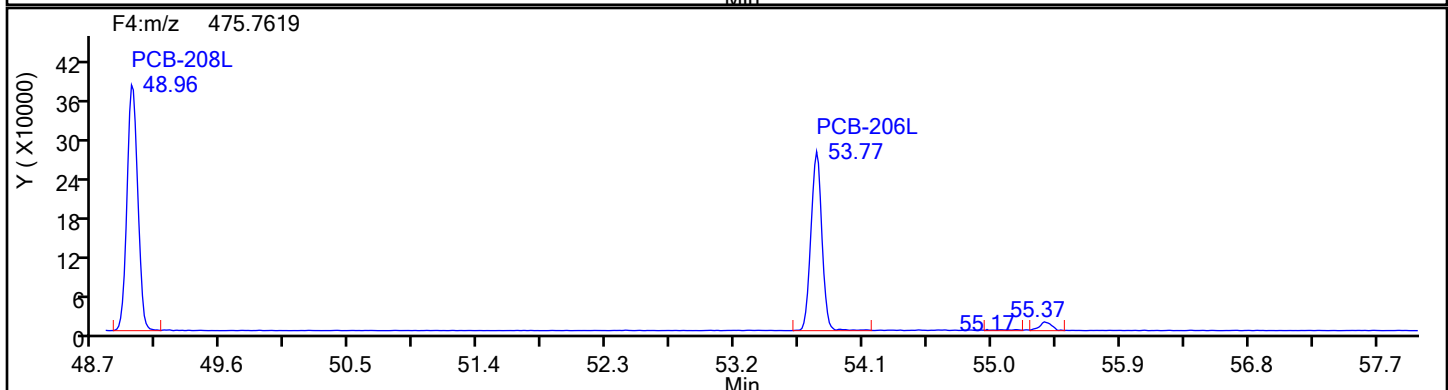
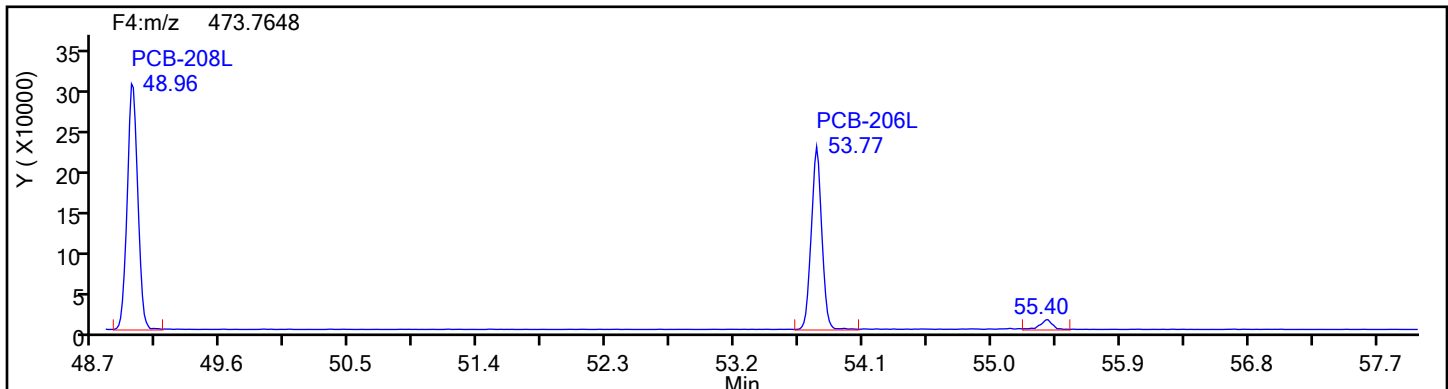
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

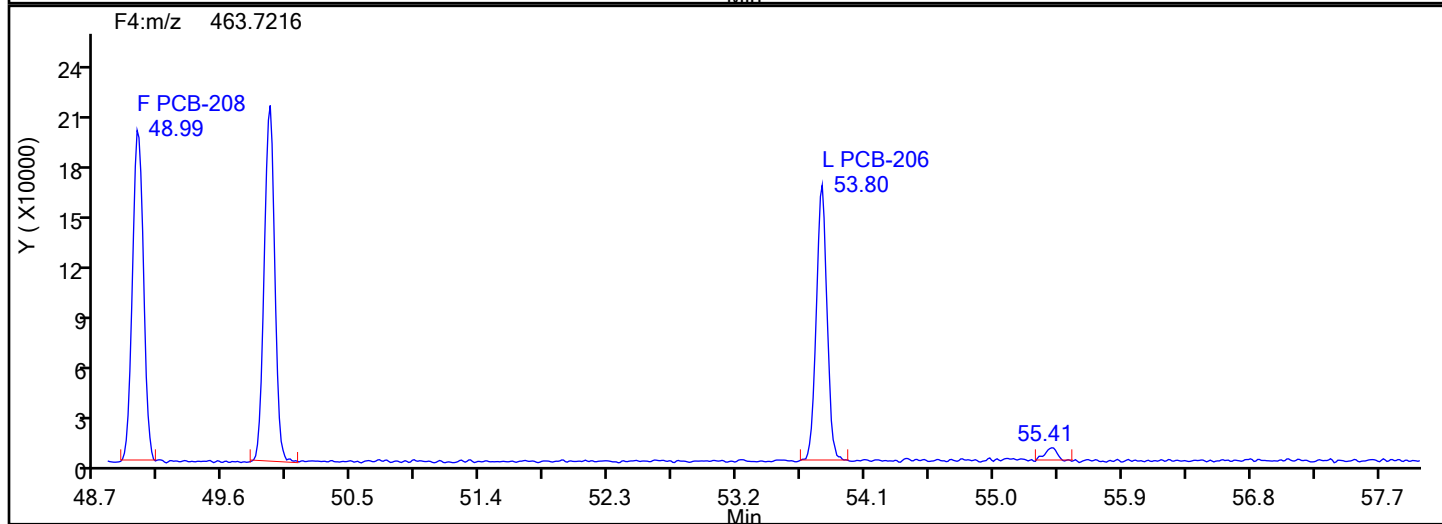
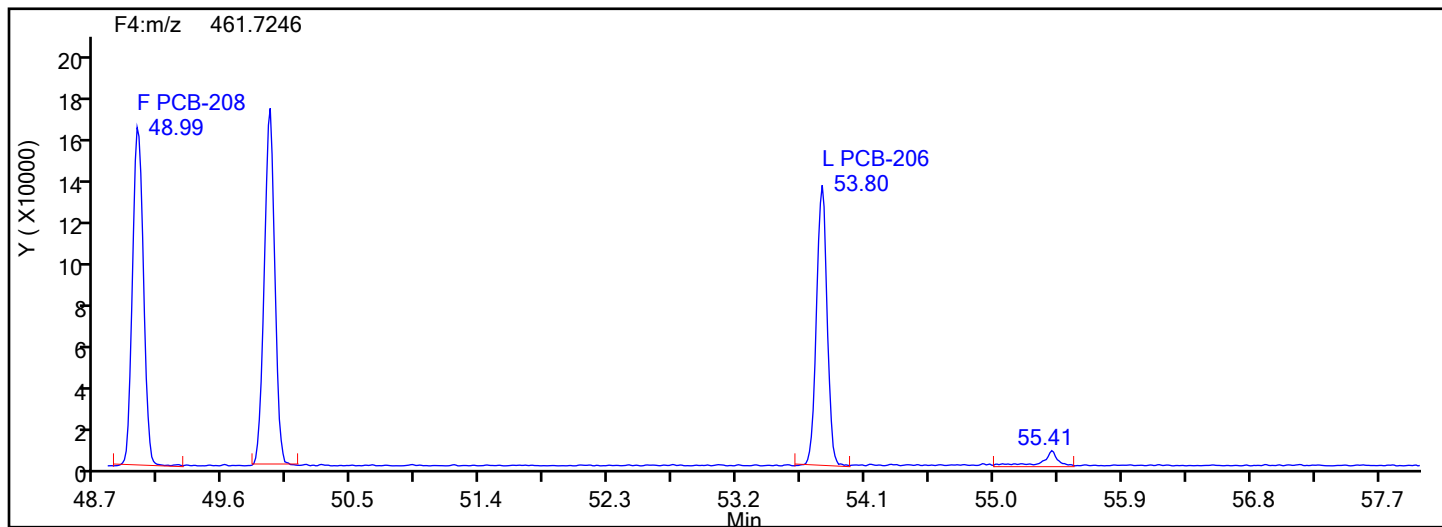
Worklist#: 88747

Sample Line#: 2

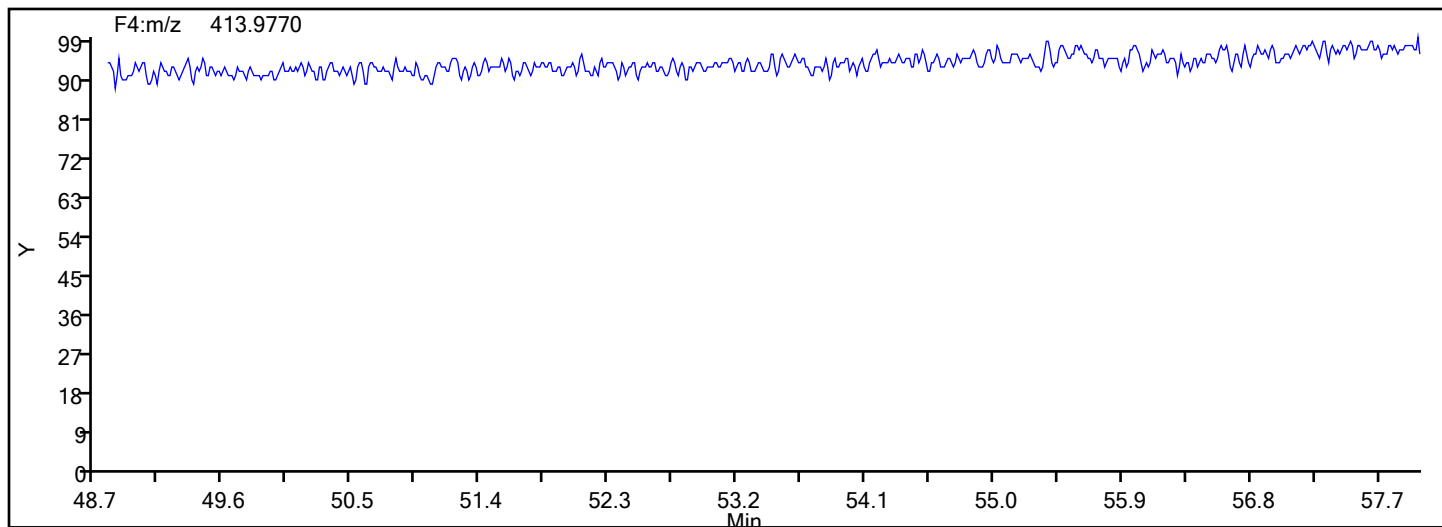
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

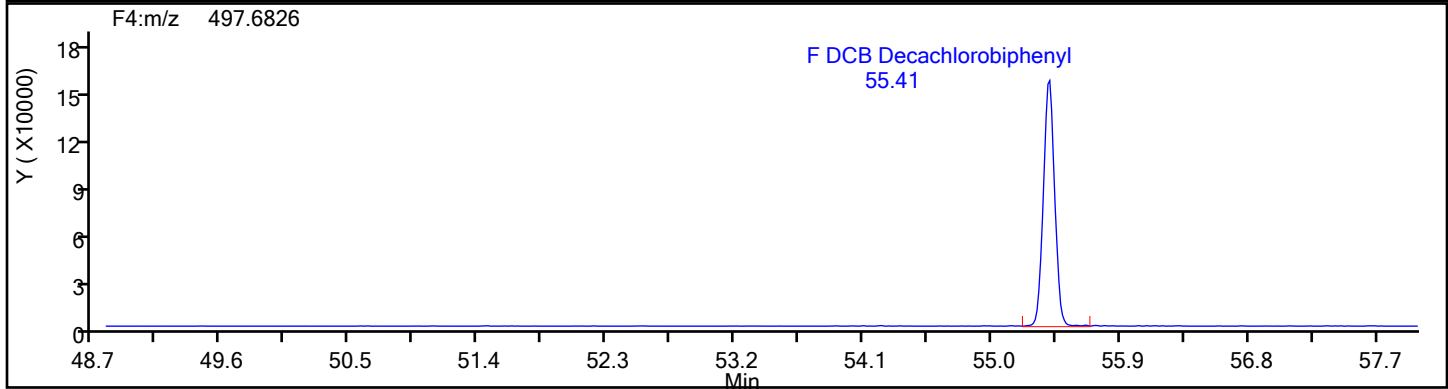
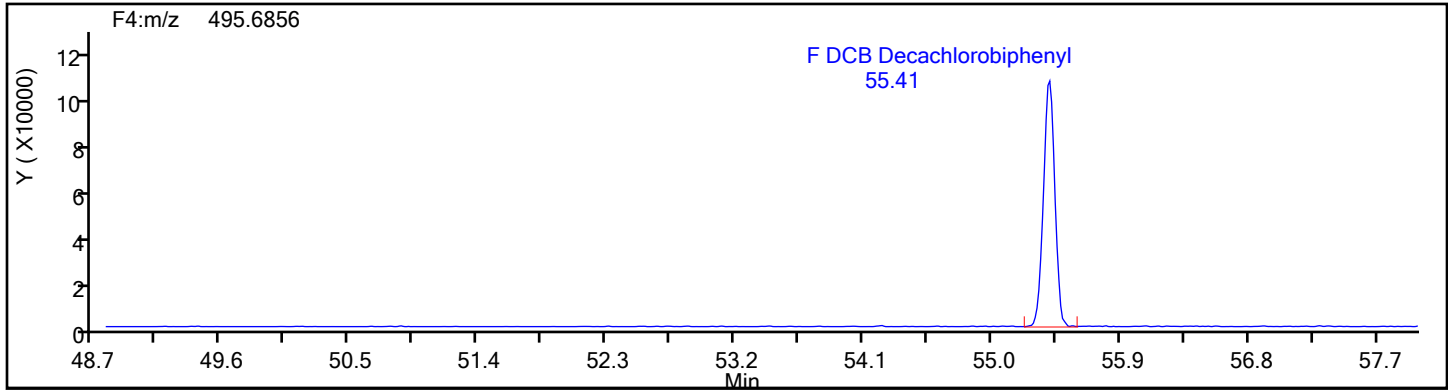
Worklist#: 88747

Sample Line#: 2

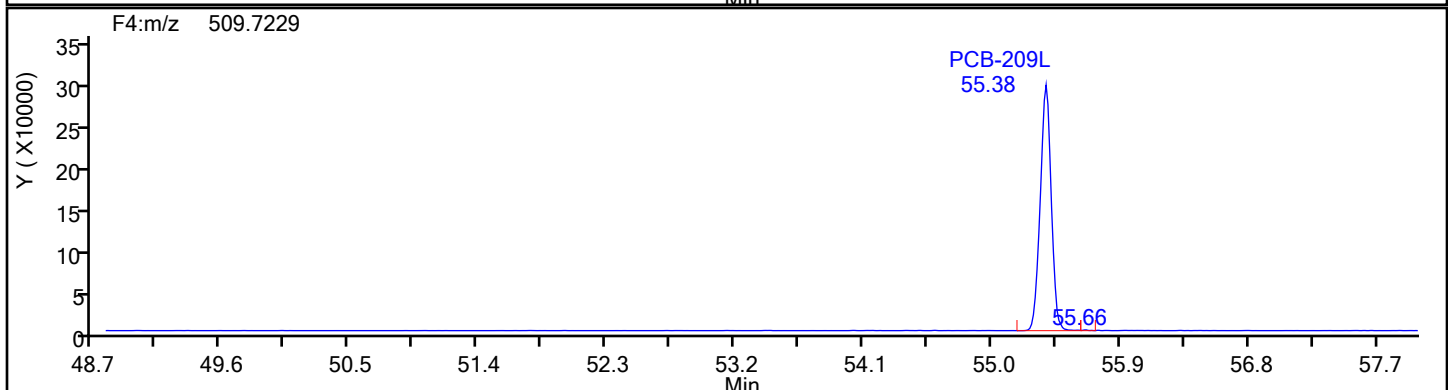
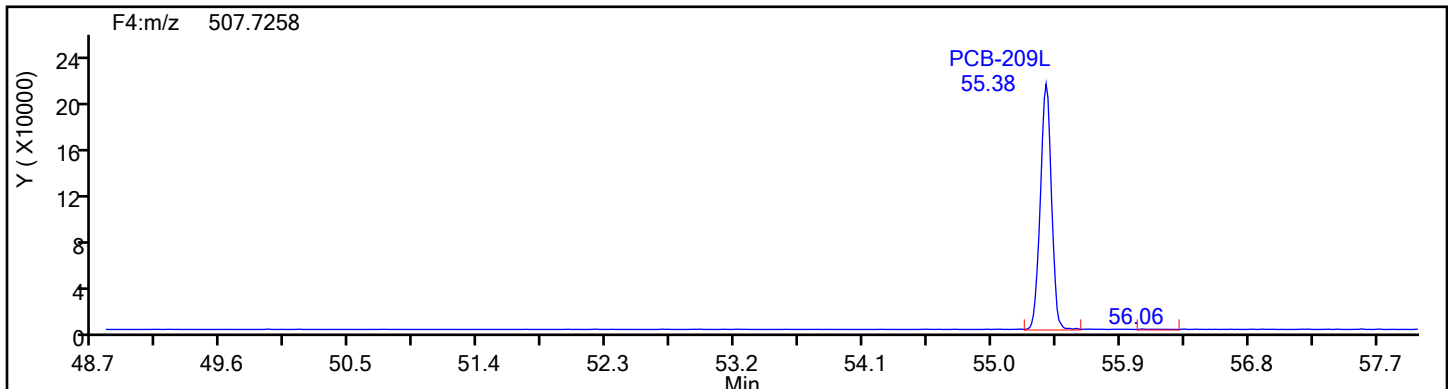
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d

Injection Date: 15-Jul-2024 13:44:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

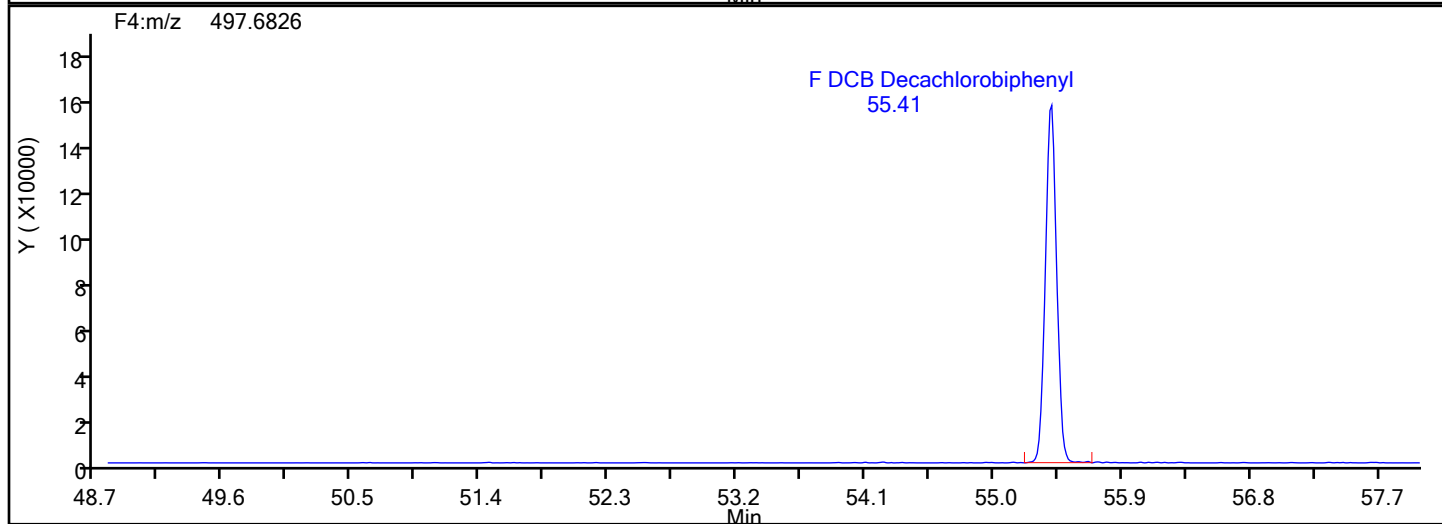
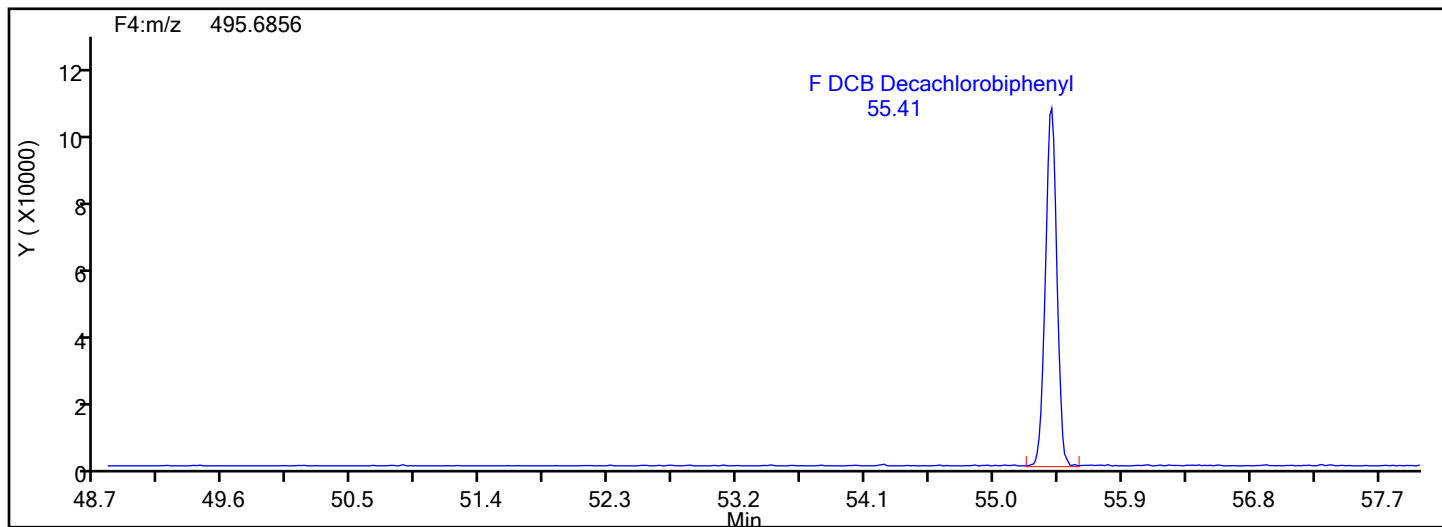
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Sample Line#: 2

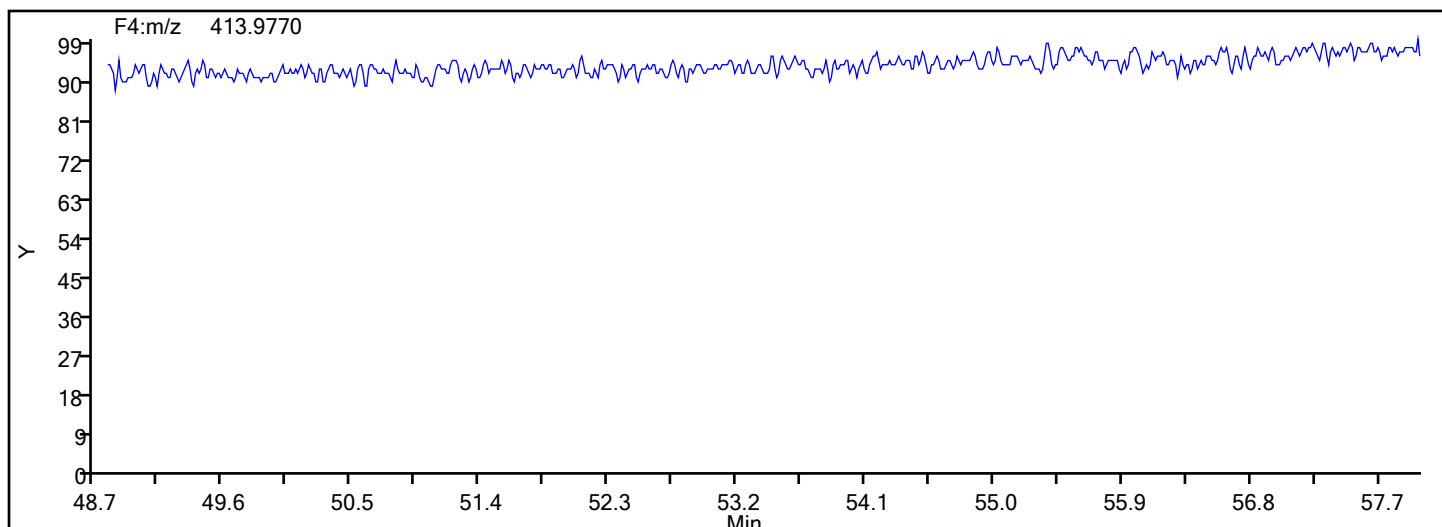
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcs140-8819319-b.d
Lims ID: LCS 140-88193/19-B
Client ID:
Sample Type: LCS
Inject. Date: 15-Jul-2024 13:44:00 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-002
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:43:22 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:43:22

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	66.6	66.61
PCB-111L	100.0	72.3	72.27
PCB-178L	100.0	69.5	69.54

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-88193/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8819320-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/15/2024 14:45</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	14.42		0.600	0.132	0.0262
37680-65-2	PCB-18	28.12	C	0.600	0.285	0.0229
7012-37-5	PCB-28	27.66	C20	0.600	0.252	0.400
41464-39-5	PCB-44	37.51	C	0.900	0.390	0.190
35693-99-3	PCB-52	12.62		0.300	0.132	0.201
32598-10-0	PCB-66	14.19		0.300	0.120	0.147
32598-13-3	PCB-77	13.57		0.300	0.126	0.167
70362-50-4	PCB-81	13.54		0.300	0.0960	0.174
37680-73-2	PCB-101	44.70	C90	0.900	0.390	0.0357
32598-14-4	PCB-105	13.85		0.300	0.102	0.240
74472-37-0	PCB-114	13.99		0.300	0.165	0.256
31508-00-6	PCB-118	13.80		0.300	0.183	0.226
65510-44-3	PCB-123	13.15		0.300	0.171	0.266
57465-28-8	PCB-126	14.15		0.300	0.123	0.256
38380-07-3	PCB-128	26.73	C	0.600	0.204	0.0684
35065-28-2	PCB-138	52.42	C129	1.20	0.510	0.0710
35065-27-1	PCB-153	25.75	C	0.600	0.249	0.0615
38380-08-4	PCB-156	28.43	C	0.600	0.255	0.0761
69782-90-7	PCB-157	28.43	C156	0.600	0.255	0.0761
52663-72-6	PCB-167	13.86		0.300	0.180	0.0491
32774-16-6	PCB-169	13.79		0.300	0.123	0.0489
35065-30-6	PCB-170	13.51		0.300	0.132	0.00945
35065-29-3	PCB-180	30.29	C	0.600	0.204	0.00784
52663-68-0	PCB-187	14.84		0.300	0.126	0.00831
39635-31-9	PCB-189	14.28		0.300	0.147	0.0719
52663-78-2	PCB-195	14.19		0.300	0.159	0.0876
40186-72-9	PCB-206	13.16		0.300	0.171	0.206
2051-24-3	PCB-209	14.25		0.300	0.138	0.0269

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-37232-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-88193/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8819320-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/27/2024 14:35</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/15/2024 14:45</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88747</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>88193</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	67		15-145
208263-77-8	PCB-3L	70		15-145
234432-86-1	PCB-4L	65		15-145
208263-67-6	PCB-15L	69		15-145
234432-87-2	PCB-19L	66		15-145
208263-79-0	PCB-37L	72		15-145
234432-88-3	PCB-54L	75		15-145
105600-23-5	PCB-77L	78		40-145
208461-24-9	PCB-81L	77		40-145
234432-89-4	PCB-104L	72		40-145
208263-62-1	PCB-105L	82		40-145
208263-63-2	PCB-114L	77		40-145
104130-40-7	PCB-118L	77		40-145
208263-64-3	PCB-123L	76		40-145
208263-65-4	PCB-126L	84		40-145
234432-90-7	PCB-155L	70		40-145
208263-68-7	PCB-156L	84	C	40-145
235416-30-5	PCB-157L	84	C156	40-145
208263-69-8	PCB-167L	81		40-145
208263-70-1	PCB-169L	86		40-145
160901-80-4	PCB-170L	83		40-145
234432-91-8	PCB-188L	73		40-145
208263-73-4	PCB-189L	82		40-145
105600-26-8	PCB-202L	76		40-145
234446-64-1	PCB-205L	81		40-145
208263-75-6	PCB-206L	87		40-145
234432-92-9	PCB-208L	83		40-145
105600-27-9	PCB-209L	94		40-145

FORM I
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 140-88193/20-B
Matrix: Air Lab File ID: lcsd140-8819320-b.d
Analysis Method: 23 Date Collected: _____
Extract. Method: Combined Prep Date Extracted: 06/27/2024 14:35
Sample wt/vol: 1 (Sample) Date Analyzed: 07/15/2024 14:45
Con. Extract Vol.: 30 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)
% Moisture: _____ % Solids: _____ GPC Cleanup: (Y/N) N
Cleanup Factor: _____ Level: (low/med) Low
Analysis Batch No.: 88747 Units: ng/Sample
Preparation Batch No.: 88193 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	66		15-145
235416-29-2	PCB-111L	69		40-145
232919-67-4	PCB-178L	68		40-145

Eurofins Knoxville
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
 Lims ID: LCSD 140-88193/20-B
 Client ID:
 Sample Type: LCSD
 Inject. Date: 15-Jul-2024 14:45:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033504-003
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 15-Jul-2024 19:48:30 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:48:30

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					142.3	142.3	0.1639	0.1639		
D PCB-1L	11:36	6035971	3.08	1.6108	66.5	66.5	0.2986	0.2986	66.50	
D PCB-3L	13:44	6287905	3.18	1.5891	70.2	70.2	0.3027	0.3027	70.22	
PCB-1	11:36	3500846	3.19	1.2191	47.6	47.6	0.1490	0.1490	95.15	
PCB-2	13:35	3502494	3.23	1.1805	48.1	48.1	0.1667	0.1667	96.30	
PCB-3	13:45	3577545	3.19	1.2206	46.6	46.6	0.1759	0.1759	93.23	
S Total Dichlorobiphenyls					573.9	573.9	0.1008	0.1008		
D PCB-4L	13:59	2379710	1.60	0.6475	65.2	65.2	0.2107	0.2107	65.22	
* PCB-9L	15:56	5634473	1.62		100.0	100.0				
D PCB-15L	19:51	4193287	1.59	1.0789	69.0	69.0	0.1264	0.1264	68.98	
PCB-4	14:01	1454252	1.66	1.2818	47.7	47.7	0.1201	0.1201	95.35	
PCB-10	14:10	2024282	1.59	1.3149	46.8	46.8	0.1054	0.1054	93.69	
PCB-9	15:56	2215077	1.61	1.4224	47.4	47.4	0.0974	0.0974	94.77	
PCB-7	16:07	2159016	1.60	1.4134	46.5	46.5	0.0980	0.0980	92.96	
PCB-6	16:22	2380561	1.59	1.5421	47.0	47.0	0.0898	0.0898	93.94	
PCB-5	16:40	1998820	1.58	1.3395	45.4	45.4	0.1034	0.1034	90.81	
PCB-8	16:47	2510098	1.58	1.5889	48.1	48.1	0.0872	0.0872	96.14	
PCB-14	18:23	2336132	1.55	1.4025	50.7	50.7	0.0988	0.0988	101	
PCB-11	19:14	2145269	1.62	1.2951	50.4	50.4	0.1070	0.1070	101	
PCB-12	19:32	4266875	1.63	1.3358	97.2	97.2	0.1037	0.1037	97.19	
PCB-13 (C12)	19:32	4266875	1.63	1.3358	97.2	97.2	0.1037	0.1037	97.19	
PCB-15	19:51	2530987	1.64	1.2903	46.8	46.8	0.0976	0.0976	93.56	
S Total Trichlorobiphenyls					1131.5	1131.5	0.9248	0.9248		
D PCB-19L	17:04	1542053	1.04	0.6285	65.8	65.8	0.5415	0.5415	65.81	
* PCB-32L	20:18	3727864	1.07		100.0	100.0				
* PCB-31L	22:33	8864977	1.05		100.0	100.0				
\$ PCB-28L	22:51	6133675	1.06	1.0494	65.9	65.9	0.1016	0.1016	65.93	
D PCB-37L	26:51	5572716	1.09	0.8749	71.8	71.8	0.1218	0.1218	71.85	
PCB-19	17:05	885708	1.06	1.2809	44.8	44.8	0.1051	0.1051	89.68	
PCB-18	18:53	2551584	1.05	1.7652	93.7	93.7	0.0763	0.0763	93.74	
PCB-30 (C18)	18:53	2551584	1.05	1.7652	93.7	93.7	0.0763	0.0763	93.74	
PCB-17	19:21	891427	1.06	1.2430	46.5	46.5	0.1083	0.1083	93.01	
PCB-27	19:34	1356158	1.07	1.8327	48.0	48.0	0.0735	0.0735	95.97	
PCB-24	19:42	1222470	1.02	1.6777	47.3	47.3	0.0802	0.0802	94.51	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:49	858672	1.10	1.1286	49.3	49.3	0.1193	0.1193	98.68	
PCB-32	20:20	1444303	1.07	1.8324	51.1	51.1	0.0735	0.0735	102	
PCB-34	21:34	2977651	1.07	1.1277	47.4	47.4	1.386	1.386	94.76	
PCB-23	21:43	2827358	1.05	1.0813	46.9	46.9	1.446	1.446	93.84	
PCB-26	22:02	5773793	1.04	1.1255	92.1	92.1	1.389	1.389	92.06	
PCB-29 (C26)	22:02	5773793	1.04	1.1255	92.1	92.1	1.389	1.389	92.06	
PCB-25	22:15	3337544	1.02	1.2728	47.1	47.1	1.228	1.228	94.11	
PCB-31	22:35	3006396	1.07	1.1532	46.8	46.8	1.356	1.356	93.56	
PCB-20	22:53	6021686	1.06	1.1718	92.2	92.2	1.334	1.334	92.21	
PCB-28 (C20)	22:53	6021686	1.06	1.1718	92.2	92.2	1.334	1.334	92.21	
PCB-21	23:02	5598628	1.03	1.0746	93.5	93.5	1.455	1.455	93.49	M
PCB-33 (C21)	23:02	5598628	1.03	1.0746	93.5	93.5	1.455	1.455	93.49	M
PCB-22	23:31	3128446	1.03	1.1932	47.0	47.0	1.310	1.310	94.09	
PCB-36	25:03	2934959	1.06	1.1071	47.6	47.6	1.412	1.412	95.15	
PCB-39	25:25	3018974	1.05	1.1581	46.8	46.8	1.350	1.350	93.55	
PCB-38	25:59	2792683	1.01	1.0843	46.2	46.2	1.442	1.442	92.43	
PCB-35	26:28	3166175	1.05	1.1297	50.3	50.3	1.384	1.384	101	
PCB-37	26:52	2992722	1.04	1.1435	47.0	47.0	1.367	1.367	93.93	
S Total Tetrachlorobiphenyls					1826.5	1826.5	0.5584	0.5584		
D PCB-54L	20:09	1558151	0.81	0.5562	75.1	75.1	0.0548	0.0548	75.15	
* PCB-52L	24:40	4576130	0.80		100.0	100.0				
D PCB-81L	33:35	4400128	0.80	1.2470	77.1	77.1	0.0968	0.0968	77.11	
D PCB-77L	34:09	4726758	0.80	1.3212	78.2	78.2	0.0914	0.0914	78.18	
PCB-54	20:09	933313	0.75	1.2733	47.0	47.0	0.0594	0.0594	94.08	
PCB-50	22:19	3117185	0.80	0.8578	79.6	79.6	0.7169	0.7169	79.63	
PCB-53 (C50)	22:19	3117185	0.80	0.8578	79.6	79.6	0.7169	0.7169	79.63	
PCB-45	23:03	3155083	0.79	0.8264	83.7	83.7	0.7441	0.7441	83.66	M
PCB-51 (C45)	23:03	3155083	0.79	0.8264	83.7	83.7	0.7441	0.7441	83.66	M
PCB-46	23:18	1359126	0.78	0.7101	41.9	41.9	0.8660	0.8660	83.89	
PCB-52	24:42	1764650	0.77	0.9194	42.1	42.1	0.6688	0.6688	84.12	
PCB-43	24:50	4103237	0.78	1.0333	87.0	87.0	0.5951	0.5951	87.01	M
PCB-73 (C43)	24:50	4103237	0.78	1.0333	87.0	87.0	0.5951	0.5951	87.01	M
PCB-49	25:07	3971208	0.78	1.0685	81.4	81.4	0.5755	0.5755	81.44	
PCB-69 (C49)	25:07	3971208	0.78	1.0685	81.4	81.4	0.5755	0.5755	81.44	
PCB-48	25:27	1665917	0.78	0.8399	43.5	43.5	0.7322	0.7322	86.93	
PCB-44	25:42	5552712	0.79	0.9731	125.0	125.0	0.6319	0.6319	83.36	
PCB-47 (C44)	25:42	5552712	0.79	0.9731	125.0	125.0	0.6319	0.6319	83.36	
PCB-65 (C44)	25:42	5552712	0.79	0.9731	125.0	125.0	0.6319	0.6319	83.36	
PCB-59	26:01	6549024	0.78	1.1853	121.1	121.1	0.5188	0.5188	80.72	
PCB-62 (C59)	26:01	6549024	0.78	1.1853	121.1	121.1	0.5188	0.5188	80.72	
PCB-75 (C59)	26:01	6549024	0.78	1.1853	121.1	121.1	0.5188	0.5188	80.72	
PCB-42	26:12	1667097	0.74	0.8097	45.1	45.1	0.7595	0.7595	90.24	
PCB-40	26:43	5223092	0.78	0.8863	129.1	129.1	0.6938	0.6938	86.09	M
PCB-41 (C40)	26:43	5223092	0.78	0.8863	129.1	129.1	0.6938	0.6938	86.09	M
PCB-71 (C40)	26:43	5223092	0.78	0.8863	129.1	129.1	0.6938	0.6938	86.09	M
PCB-64	26:55	2345110	0.75	1.1776	43.6	43.6	0.5222	0.5222	87.28	
PCB-72	27:45	2198127	0.76	1.0943	44.0	44.0	0.5619	0.5619	88.04	
PCB-68	28:02	2574720	0.79	1.2533	45.0	45.0	0.4906	0.4906	90.04	
PCB-57	28:27	2231267	0.75	1.0818	45.2	45.2	0.5684	0.5684	90.39	
PCB-58	28:42	2864239	0.78	1.3253	47.4	47.4	0.4640	0.4640	94.71	
PCB-67	28:51	2749236	0.76	1.4230	42.3	42.3	0.4321	0.4321	84.67	
PCB-63	29:07	2313560	0.78	1.1240	45.1	45.1	0.5471	0.5471	90.21	
PCB-61	29:28	10112814	0.79	1.2612	175.7	175.7	0.4876	0.4876	87.85	M
PCB-70 (C61)	29:28	10112814	0.79	1.2612	175.7	175.7	0.4876	0.4876	87.85	M
PCB-74 (C61)	29:28	10112814	0.79	1.2612	175.7	175.7	0.4876	0.4876	87.85	M
PCB-76 (C61)	29:28	10112814	0.79	1.2612	175.7	175.7	0.4876	0.4876	87.85	M
PCB-66	29:47	2716597	0.75	1.2583	47.3	47.3	0.4887	0.4887	94.62	
PCB-55	29:57	2853402	0.77	1.3236	47.2	47.2	0.4646	0.4646	94.48	
PCB-56	30:28	2632038	0.77	1.2334	46.8	46.8	0.4986	0.4986	93.52	
PCB-60	30:41	2265561	0.76	1.1230	44.2	44.2	0.5476	0.5476	88.41	
PCB-80	31:04	2754094	0.77	1.3243	45.6	45.6	0.4644	0.4644	91.15	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:36	2796216	0.80	1.4368	42.6	42.6	0.4280	0.4280	85.29	
PCB-78	33:10	2513660	0.78	1.1618	47.4	47.4	0.5293	0.5293	94.82	
PCB-81	33:36	2144721	0.78	1.0802	45.1	45.1	0.5815	0.5815	90.25	
PCB-77	34:10	2316623	0.82	1.0836	45.2	45.2	0.5558	0.5558	90.46	
S Total Pentachlorobiphenyls					2217.8	2217.8	0.3522	0.3522		
D PCB-104L	25:36	2803850	1.57	1.2161	71.5	71.5	0.0844	0.0844	71.53	
* PCB-101L	31:30	3223373	1.66		100.0	100.0				
\$ PCB-111L	34:10	3032403	1.57	1.3699	68.7	68.7	0.0749	0.0749	68.67	
D PCB-123L	36:07	4303840	1.62	0.9731	75.9	75.9	0.8785	0.8785	75.85	
D PCB-118L	36:27	4526728	1.62	1.0102	76.9	76.9	0.8463	0.8463	76.86	
D PCB-114L	36:59	4475794	1.61	0.9949	77.2	77.2	0.8593	0.8593	77.16	
D PCB-105L	37:38	4536138	1.61	0.9514	81.8	81.8	0.8986	0.8986	81.77	
* PCB-127L	39:06	5830451	1.57		100.0	100.0				
D PCB-126L	40:43	4631643	1.62	0.9439	84.2	84.2	0.9058	0.9058	84.16	
PCB-104	25:38	1342896	1.63	1.0087	47.5	47.5	0.1126	0.1126	94.96	
PCB-96	26:01	1403158	1.62	1.0940	45.7	45.7	0.1039	0.1039	91.49	
PCB-103	27:55	1197453	1.58	0.8741	48.9	48.9	0.1300	0.1300	97.71	
PCB-94	28:10	1030507	1.59	0.7640	48.1	48.1	0.1487	0.1487	96.21	
PCB-95	28:37	1135350	1.60	0.8033	50.4	50.4	0.1415	0.1415	101	
PCB-93	28:48	2207391	1.55	0.8429	93.4	93.4	0.1348	0.1348	93.40	
PCB-100 (C93)	28:48	2207391	1.55	0.8429	93.4	93.4	0.1348	0.1348	93.40	
PCB-98	28:58	2257622	1.64	0.8262	97.5	97.5	0.1375	0.1375	97.46	
PCB-102 (C98)	28:58	2257622	1.64	0.8262	97.5	97.5	0.1375	0.1375	97.46	
PCB-88	29:27	2126728	1.59	0.8013	94.7	94.7	0.1418	0.1418	94.66	
PCB-91 (C88)	29:27	2126728	1.59	0.8013	94.7	94.7	0.1418	0.1418	94.66	
PCB-84	29:42	1040977	1.59	0.7299	50.9	50.9	0.1557	0.1557	102	
PCB-89	30:10	1039020	1.56	0.7798	47.5	47.5	0.1457	0.1457	95.04	
PCB-121	30:33	1779175	1.60	1.2964	48.9	48.9	0.0876	0.0876	97.89	
PCB-92	30:56	1184727	1.64	0.8546	49.4	49.4	0.1330	0.1330	98.89	
PCB-90	31:30	3989911	1.59	0.9550	149.0	149.0	0.1190	0.1190	99.34	
PCB-101 (C90)	31:30	3989911	1.59	0.9550	149.0	149.0	0.1190	0.1190	99.34	
PCB-113 (C90)	31:30	3989911	1.59	0.9550	149.0	149.0	0.1190	0.1190	99.34	
PCB-83	32:05	2367680	1.56	0.8385	100.7	100.7	0.1355	0.1355	101	
PCB-99 (C83)	32:05	2367680	1.56	0.8385	100.7	100.7	0.1355	0.1355	101	
PCB-112	32:13	1903948	1.61	1.4111	48.1	48.1	0.0805	0.0805	96.24	
PCB-86	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-87 (C86)	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-97 (C86)	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-109 (C86)	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-119 (C86)	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-125 (C86)	32:35	8625316	1.61	1.0473	293.7	293.7	0.1085	0.1085	97.91	M
PCB-85	33:19	4306255	1.63	1.0408	147.6	147.6	0.1092	0.1092	98.38	
PCB-116 (C85)	33:19	4306255	1.63	1.0408	147.6	147.6	0.1092	0.1092	98.38	
PCB-117 (C85)	33:19	4306255	1.63	1.0408	147.6	147.6	0.1092	0.1092	98.38	
PCB-110	33:31	3372820	1.55	1.1919	100.9	100.9	0.0953	0.0953	101	
PCB-115 (C110)	33:31	3372820	1.55	1.1919	100.9	100.9	0.0953	0.0953	101	
PCB-82	33:50	1185281	1.65	0.8303	50.9	50.9	0.1368	0.1368	102	
PCB-111	34:11	1716634	1.52	1.2125	50.5	50.5	0.0937	0.0937	101	
PCB-120	34:39	2040872	1.63	1.4762	49.3	49.3	0.0770	0.0770	98.61	
PCB-108	35:48	4509958	1.56	1.1405	88.0	88.0	0.8186	0.8186	87.97	
PCB-124 (C108)	35:48	4509958	1.56	1.1405	88.0	88.0	0.8186	0.8186	87.97	
PCB-107	36:02	2424558	1.55	1.2121	44.5	44.5	0.7703	0.7703	89.01	
PCB-123	36:09	2023000	1.52	1.0722	43.8	43.8	0.8879	0.8879	87.68	
PCB-106	36:16	2318872	1.57	1.0839	47.6	47.6	0.8614	0.8614	95.19	
PCB-118	36:29	2510380	1.55	1.2055	46.0	46.0	0.7522	0.7522	92.00	
PCB-122	36:50	2007409	1.57	0.9567	46.7	46.7	0.9759	0.9759	93.36	
PCB-114	37:00	2263495	1.61	1.0842	46.6	46.6	0.8529	0.8529	93.29	
PCB-105	37:40	2488002	1.56	1.1879	46.2	46.2	0.7998	0.7998	92.34	
PCB-127	39:07	2436822	1.60	1.1394	47.6	47.6	0.8194	0.8194	95.16	
PCB-126	40:44	2397407	1.59	1.0976	47.2	47.2	0.8529	0.8529	94.32	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					1899.1	1899.1	0.1946	0.1946		
D PCB-155L	31:15	2465920	1.28	1.0851	70.5	70.5	0.0429	0.0429	70.50	
* PCB-138L	39:34	4011284	1.27		100.0	100.0				
D PCB-167L	42:34	4080657	1.27	1.2572	80.9	80.9	0.3499	0.3499	80.91	
D PCB-156L	43:43	8179716	1.28	1.2106	168.4	168.4	0.3634	0.3634	84.22	
D PCB-157L (C156L)	43:43	8179716	1.28	1.2106	168.4	168.4	0.3634	0.3634	84.22	
D PCB-169L	46:57	4271439	1.31	1.2439	85.6	85.6	0.3536	0.3536	85.61	
PCB-155	31:15	1144085	1.32	0.9444	49.1	49.1	0.0803	0.0803	98.25	
PCB-152	31:29	1218755	1.26	0.9895	49.9	49.9	0.0766	0.0766	99.89	
PCB-150	31:39	1261386	1.27	1.0132	50.5	50.5	0.0748	0.0748	101	
PCB-136	32:02	1267811	1.29	1.0116	50.8	50.8	0.0749	0.0749	102	
PCB-145	32:19	1237221	1.24	0.9685	51.8	51.8	0.0783	0.0783	104	
PCB-148	33:49	952518	1.34	0.7603	50.8	50.8	0.0997	0.0997	102	
PCB-135	34:24	1861718	1.33	0.7256	104.1	104.1	0.1045	0.1045	104	M
PCB-151 (C135)	34:24	1861718	1.33	0.7256	104.1	104.1	0.1045	0.1045	104	M
PCB-154	34:39	1048137	1.31	0.8129	52.3	52.3	0.0933	0.0933	105	
PCB-144	34:58	1011737	1.26	0.7852	52.3	52.3	0.0965	0.0965	105	
PCB-147	35:20	3178078	1.26	0.8950	85.9	85.9	0.2504	0.2504	85.92	
PCB-149 (C147)	35:20	3178078	1.26	0.8950	85.9	85.9	0.2504	0.2504	85.92	
PCB-134	35:38	2758831	1.25	0.7967	83.8	83.8	0.2812	0.2812	83.79	
PCB-143 (C134)	35:38	2758831	1.25	0.7967	83.8	83.8	0.2812	0.2812	83.79	
PCB-139	35:56	2980138	1.24	0.8769	82.2	82.2	0.2555	0.2555	82.23	
PCB-140 (C139)	35:56	2980138	1.24	0.8769	82.2	82.2	0.2555	0.2555	82.23	
PCB-131	36:08	1234366	1.25	0.7503	39.8	39.8	0.2986	0.2986	79.61	
PCB-142	36:17	1340677	1.33	0.7507	43.2	43.2	0.2985	0.2985	86.42	
PCB-132	36:37	1258953	1.28	0.7489	40.7	40.7	0.2992	0.2992	81.35	
PCB-133	37:06	1382969	1.31	0.8096	41.3	41.3	0.2768	0.2768	82.67	
PCB-165	37:29	1852293	1.25	1.0247	43.7	43.7	0.2187	0.2187	87.47	
PCB-146	37:44	1675046	1.26	0.9637	42.1	42.1	0.2325	0.2325	84.11	
PCB-161	37:51	1934264	1.24	1.1288	41.5	41.5	0.1985	0.1985	82.92	
PCB-153	38:22	3880447	1.27	1.0938	85.8	85.8	0.2048	0.2048	85.84	
PCB-168 (C153)	38:22	3880447	1.27	1.0938	85.8	85.8	0.2048	0.2048	85.84	
PCB-141	38:33	1491290	1.22	0.8755	41.2	41.2	0.2559	0.2559	82.43	
PCB-130	38:58	1263818	1.26	0.7051	43.4	43.4	0.3178	0.3178	86.74	
PCB-137	39:10	1401992	1.25	0.7767	43.7	43.7	0.2885	0.2885	87.35	
PCB-164	39:17	1986357	1.24	1.0382	46.3	46.3	0.2158	0.2158	92.58	
PCB-129	39:36	6834267	1.26	0.9464	174.7	174.7	0.2367	0.2367	87.36	M
PCB-138 (C129)	39:36	6834267	1.26	0.9464	174.7	174.7	0.2367	0.2367	87.36	M
PCB-160 (C129)	39:36	6834267	1.26	0.9464	174.7	174.7	0.2367	0.2367	87.36	M
PCB-163 (C129)	39:36	6834267	1.26	0.9464	174.7	174.7	0.2367	0.2367	87.36	M
PCB-158	39:58	2335230	1.24	1.3110	43.1	43.1	0.1709	0.1709	86.19	
PCB-128	40:49	3619847	1.26	0.9829	89.1	89.1	0.2279	0.2279	89.11	
PCB-166 (C128)	40:49	3619847	1.26	0.9829	89.1	89.1	0.2279	0.2279	89.11	
PCB-159	41:50	2532079	1.25	1.3856	44.2	44.2	0.1617	0.1617	88.43	
PCB-162	42:07	2329915	1.23	1.2571	44.8	44.8	0.1782	0.1782	89.69	
PCB-167	42:35	2104326	1.28	1.1159	46.2	46.2	0.1636	0.1636	92.43	
PCB-156	43:45	4303558	1.27	1.1104	94.8	94.8	0.2537	0.2537	94.76	
PCB-157 (C156)	43:45	4303558	1.27	1.1104	94.8	94.8	0.2537	0.2537	94.76	
PCB-169	46:59	2283616	1.23	1.1628	46.0	46.0	0.1630	0.1630	91.95	
S Total Heptachlorobiphenyls					1145.2	1145.2	0.0381	0.0381		
D PCB-188L	36:58	2999270	1.07	1.3133	73.0	73.0	0.0240	0.0240	73.03	
\$ PCB-178L	40:01	2208262	1.08	1.0313	68.5	68.5	0.0305	0.0305	68.47	
* PCB-180L	45:05	3127155	1.08		100.0	100.0				
D PCB-170L	46:21	2166595	1.05	0.8362	82.9	82.9	0.0376	0.0376	82.85	
D PCB-189L	49:28	5043729	1.06	1.4414	82.1	82.1	0.2631	0.2631	82.09	
PCB-188	36:59	1541939	1.02	1.1350	45.3	45.3	0.0227	0.0227	90.59	
PCB-179	37:21	1605139	1.08	1.4276	43.5	43.5	0.0214	0.0214	87.06	
PCB-184	37:51	1596272	1.06	1.3672	45.2	45.2	0.0223	0.0223	90.41	
PCB-176	38:13	1423791	1.04	1.2331	44.7	44.7	0.0248	0.0248	89.41	
PCB-186	38:40	1728050	1.06	1.4737	45.4	45.4	0.0207	0.0207	90.79	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:02	1067651	1.00	0.8946	46.2	46.2	0.0341	0.0341	92.41	
PCB-175	40:40	1183694	1.05	0.9524	48.1	48.1	0.0321	0.0321	96.24	
PCB-187	40:57	1407494	1.05	1.1018	49.5	49.5	0.0277	0.0277	98.91	
PCB-182	41:09	1169387	1.04	0.9247	49.0	49.0	0.0330	0.0330	97.92	
PCB-183	41:32	2344828	1.11	0.9825	92.4	92.4	0.0311	0.0311	92.40	M
PCB-185 (C183)	41:32	2344828	1.11	0.9825	92.4	92.4	0.0311	0.0311	92.40	M
PCB-174	41:48	1208544	1.08	0.9642	48.5	48.5	0.0317	0.0317	97.06	
PCB-177	42:14	1205576	1.10	0.9773	47.8	47.8	0.0312	0.0312	95.52	
PCB-181	42:37	1161659	1.08	0.9505	47.3	47.3	0.0321	0.0321	94.63	
PCB-171	42:50	2246819	1.04	0.9336	93.2	93.2	0.0327	0.0327	93.17	
PCB-173 (C171)	42:50	2246819	1.04	0.9336	93.2	93.2	0.0327	0.0327	93.17	
PCB-172	44:28	1077136	1.03	0.8519	49.0	49.0	0.0358	0.0358	97.91	
PCB-192	44:45	1811414	1.06	1.3459	52.1	52.1	0.0227	0.0227	104	
PCB-180	45:05	3045334	1.09	1.1676	101.0	101.0	0.0261	0.0261	101	
PCB-193 (C180)	45:05	3045334	1.09	1.1676	101.0	101.0	0.0261	0.0261	101	
PCB-191	45:28	1773208	1.07	1.2891	53.3	53.3	0.0237	0.0237	107	
PCB-170	46:23	1157815	1.03	1.1865	45.0	45.0	0.0315	0.0315	90.08	
PCB-190	46:54	1761884	1.03	1.3322	51.2	51.2	0.0229	0.0229	102	
PCB-189	49:28	2312763	1.03	0.9633	47.6	47.6	0.2398	0.2398	95.20	
S Total Octachlorobiphenyls					586.6	586.6	0.1177	0.1177		
D PCB-202L	42:19	2346480	0.91	0.9818	76.4	76.4	0.0411	0.0411	76.43	
* PCB-194L	51:33	4262513	0.91		100.0	100.0				
D PCB-205L	52:02	4078533	0.91	1.1786	81.2	81.2	0.0583	0.0583	81.19	
PCB-202	42:21	1198361	0.93	1.0359	49.3	49.3	0.0618	0.0618	98.61	
PCB-201	43:15	1169306	0.91	0.9754	51.1	51.1	0.0657	0.0657	102	
PCB-204	43:55	1162180	0.93	1.0485	47.2	47.2	0.0611	0.0611	94.47	
PCB-197	44:09	1259206	0.89	1.1458	46.8	46.8	0.0559	0.0559	93.67	
PCB-200	44:17	1203195	0.92	1.0072	50.9	50.9	0.0636	0.0636	102	
PCB-198	47:02	2038329	0.91	0.8698	99.9	99.9	0.0736	0.0736	99.87	
PCB-199 (C198)	47:02	2038329	0.91	0.8698	99.9	99.9	0.0736	0.0736	99.87	
PCB-196	47:43	922520	0.96	0.7806	50.4	50.4	0.0821	0.0821	101	
PCB-203	47:54	1102398	0.94	0.9292	50.6	50.6	0.0689	0.0689	101	
PCB-195	49:15	1594572	0.92	0.8263	47.3	47.3	0.2920	0.2920	94.63	
PCB-194	51:35	1802981	0.89	0.9735	45.4	45.4	0.2478	0.2478	90.82	
PCB-205	52:03	2115835	0.93	1.0878	47.7	47.7	0.2218	0.2218	95.38	
S Total Nonachlorobiphenyls					135.4	135.4	0.6262	0.6262		
D PCB-208L	48:58	3381672	0.80	0.9576	82.8	82.8	0.2636	0.2636	82.85	
D PCB-206L	53:47	2583306	0.80	0.6947	87.2	87.2	0.3634	0.3634	87.24	
PCB-208	49:00	1784802	0.81	1.1374	46.4	46.4	0.6151	0.6151	92.80	
PCB-207	49:55	1852398	0.83	1.3756	45.2	45.2	0.5769	0.5769	90.30	
PCB-206	53:48	1512034	0.82	1.3346	43.9	43.9	0.6867	0.6867	87.71	
D PCB-209L	55:23	2670589	0.70	0.6669	93.9	93.9	0.1068	0.1068	93.95	
DCB Decachlorobiphenyl	55:25	1395722	0.70	1.1004	47.5	47.5	0.0895	0.0895	94.99	
S Polychlorinated biphenyls, Total					9563.6	9563.6	0.3336	0.3336		

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
 Lims ID: LCSD 140-88193/20-B
 Client ID:
 Sample Type: LCSD
 Inject. Date: 15-Jul-2024 14:45:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Misc. Info.: 140-0033504-003
 Operator ID: Xcalibur_System Instrument ID: D2D
 Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
 Limit Group: HR - EPA_23 PCB ICAL
 Last Update: 15-Jul-2024 19:48:30 Calib Date: 31-May-2024 21:13:00
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
 Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
 Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:48:30

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-3	0.728	4555385	1757302	1689	4222	1040		
202.0766	11:36	11:36	-3	0.728	1480586	573364	1396	3490	411	3.08(2.66-3.60)	
PCB-3L											
200.0795	13:44	13:44	-3	0.862	4782755	1507079	1689	4222	892		
202.0766	13:44	13:44	-3	0.862	1505150	465212	1396	3490	333	3.18(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-3	1.001	2664739	1036669	1249	3122	830		
190.0363	11:36	11:37	-3	1.001	836107	331782	445	1112	746	3.19(2.66-3.60)	
PCB-2											
188.0393	13:35	13:35	-3	0.989	2675363	846322	1249	3122	678		
190.0363	13:35	13:35	-3	0.989	827131	263978	445	1112	593	3.23(2.66-3.60)	
PCB-3											
188.0393	13:45	13:46	-3	1.001	2723437	832312	1249	3122	666		
190.0363	13:45	13:46	-3	1.001	854108	261265	445	1112	587	3.19(2.66-3.60)	
PCB-4L											
234.0406	13:59	13:59	-3	0.878	1463336	467381	739	1847	632		
236.0376	13:59	13:59	-3	0.878	916374	299020	136	340	2199	1.60(1.33-1.79)	
PCB-9L											
234.0406	15:56	15:59	-3		3483071	988205	739	1847	1337		
236.0376	15:56	15:59	-3		2151402	615098	136	340	4523	1.62(1.33-1.79)	
PCB-15L											
234.0406	19:51	19:49	-3	1.246	2574168	575353	739	1847	779		
236.0376	19:51	19:49	-3	1.246	1619119	361705	136	340	2660	1.59(1.33-1.79)	
PCB-4											
222.0003	14:01	14:01	-3	1.002	907193	292561	154	385	1900		
223.9974	14:01	14:01	-3	1.002	547059	172831	318	795	543	1.66(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:10	14:11	-3	1.013	1244129	400276	154	385	2599		
223.9974	14:10	14:11	-3	1.013	780153	256566	318	795	807	1.59(1.33-1.79)	
PCB-9											
222.0003	15:56	15:57	-3	1.140	1365898	382688	154	385	2485		
223.9974	15:57	15:57	-3	1.141	849179	241902	318	795	761	1.61(1.33-1.79)	
PCB-7											
222.0003	16:07	16:07	-3	1.152	1327326	367918	154	385	2389		
223.9974	16:07	16:07	-3	1.152	831690	228619	318	795	719	1.60(1.33-1.79)	
PCB-6											
222.0003	16:22	16:22	-3	1.170	1460174	411306	154	385	2671		
223.9974	16:22	16:22	-3	1.170	920387	253162	318	795	796	1.59(1.33-1.79)	
PCB-5											
222.0003	16:40	16:40	-3	1.192	1225522	347127	154	385	2254		
223.9974	16:40	16:40	-3	1.192	773298	220788	318	795	694	1.58(1.33-1.79)	
PCB-8											
222.0003	16:47	16:47	-3	1.200	1538125	403210	154	385	2618		
223.9974	16:47	16:47	-3	1.200	971973	257821	318	795	811	1.58(1.33-1.79)	
PCB-14											
222.0003	18:23	18:25	-3	0.926	1418675	352831	154	385	2291		
223.9974	18:23	18:25	-3	0.926	917457	218298	318	795	686	1.55(1.33-1.79)	
PCB-11											
222.0003	19:14	19:15	-3	0.970	1327699	316397	154	385	2055		
223.9974	19:14	19:15	-3	0.970	817570	194734	318	795	612	1.62(1.33-1.79)	
PCB-12											
222.0003	19:32	19:33	-3	0.985	2643514	434422	154	385	2821		
223.9974	19:32	19:33	-3	0.985	1623361	272193	318	795	856	1.63(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:32	19:33	-3	0.985	2643514	434422	154	385	2821		
223.9974	19:32	19:33	-3	0.985	1623361	272193	318	795	856	1.63(1.33-1.79)	
PCB-15											
222.0003	19:51	19:52	-3	1.001	1571907	334849	154	385	2174		
223.9974	19:51	19:52	-3	1.001	959080	217302	318	795	683	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:04	17:05	-3	0.841	785169	215970	646	1615	334		
269.9986	17:04	17:05	-3	0.841	756884	211127	604	1510	350	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:18	20:21	-3		1930946	471857	646	1615	730		
269.9986	20:18	20:21	-3		1796918	446244	604	1510	739	1.07(0.88-1.20)	
PCB-31L											
268.0016	22:33	22:36	-3		4549979	1049102	494	1235	2124		
269.9986	22:33	22:36	-3		4314998	1009807	384	960	2630	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:51	22:50	-2	1.013	3159696	705415	494	1235	1428		
269.9986	22:51	22:50	-2	1.013	2973979	650066	384	960	1693	1.06(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:51	26:50	-3	1.191	2907059	549134	494	1235	1112		
269.9986	26:51	26:50	-3	1.191	2665657	509877	384	960	1328	1.09(0.88-1.20)	
PCB-19											
255.9613	17:05	17:05	-3	1.001	456284	124540	110	275	1132		
257.9584	17:05	17:05	-3	1.001	429424	115296	120	300	961	1.06(0.88-1.20)	
PCB-18											
255.9613	18:53	18:52	-3	1.106	1307207	217859	110	275	1981		
257.9584	18:53	18:52	-3	1.106	1244377	207724	120	300	1731	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:53	18:52	-3	1.106	1307207	217859	110	275	1981		
257.9584	18:53	18:52	-3	1.106	1244377	207724	120	300	1731	1.05(0.88-1.20)	
PCB-17											
255.9613	19:21	19:20	-3	1.134	458030	113210	110	275	1029		
257.9584	19:21	19:20	-3	1.133	433397	108791	120	300	907	1.06(0.88-1.20)	
PCB-27											
255.9613	19:34	19:33	-3	1.146	700829	175807	110	275	1598		
257.9584	19:34	19:33	-3	1.146	655329	164217	120	300	1368	1.07(0.88-1.20)	
PCB-24											
255.9613	19:42	19:41	-3	1.154	616787	154267	110	275	1402		
257.9584	19:42	19:41	-3	1.154	605683	148718	120	300	1239	1.02(0.88-1.20)	
PCB-16											
255.9613	19:49	19:48	-3	1.161	450060	108757	110	275	989		
257.9584	19:49	19:48	-3	1.161	408612	99029	120	300	825	1.10(0.88-1.20)	
PCB-32											
255.9613	20:20	20:18	-3	1.191	746604	180373	110	275	1640		
257.9584	20:20	20:18	-3	1.191	697699	168225	120	300	1402	1.07(0.88-1.20)	
PCB-34											
255.9613	21:34	21:32	-3	1.264	1539055	364977	2335	5837	156		
257.9584	21:34	21:32	-3	1.264	1438596	333202	4288	10720	78	1.07(0.88-1.20)	
PCB-23											
255.9613	21:43	21:41	-3	1.272	1446216	336130	2335	5837	144		
257.9584	21:43	21:41	-3	1.272	1381142	322550	4288	10720	75	1.05(0.88-1.20)	
PCB-26											
255.9613	22:02	22:01	-3	1.291	2944312	652330	2335	5837	279		
257.9584	22:02	22:01	-3	1.291	2829481	635838	4288	10720	148	1.04(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:02	22:01	-3	1.291	2944312	652330	2335	5837	279		
257.9584	22:02	22:01	-3	1.291	2829481	635838	4288	10720	148	1.04(0.88-1.20)	
PCB-25											
255.9613	22:15	22:16	-3	0.829	1682687	361486	2335	5837	155		
257.9584	22:15	22:16	-3	0.829	1654857	347356	4288	10720	81	1.02(0.88-1.20)	
PCB-31											
255.9613	22:35	22:36	-3	0.841	1554090	346309	2335	5837	148		
257.9584	22:35	22:36	-3	0.841	1452306	334588	4288	10720	78	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:53	22:54	-3	0.852	3096713	494023	2335	5837	212		
257.9584	22:53	22:54	-3	0.852	2924973	480189	4288	10720	112	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:53	22:54	-3	0.852	3096713	494023	2335	5837	212		
257.9584	22:53	22:54	-3	0.852	2924973	480189	4288	10720	112	1.06(0.88-1.20)	
PCB-21											
255.9613	23:02	23:03	-3	0.858	2840000	334059	2335	5837	143		M
257.9584	23:03	23:03	-2	0.859	2758628	324406	4288	10720	76	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:02	23:03	-3	0.858	2840000	334059	2335	5837	143		M
257.9584	23:03	23:03	-2	0.859	2758628	324406	4288	10720	76	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:31	23:32	-3	0.876	1588267	350507	2335	5837	150		
257.9584	23:31	23:32	-3	0.876	1540179	341331	4288	10720	80	1.03(0.88-1.20)	
PCB-36											
255.9613	25:03	25:03	-3	0.933	1512719	290042	2335	5837	124		
257.9584	25:03	25:03	-3	0.933	1422240	271748	4288	10720	63	1.06(0.88-1.20)	
PCB-39											
255.9613	25:25	25:25	-2	0.947	1547276	315725	2335	5837	135		
257.9584	25:25	25:25	-2	0.947	1471698	292574	4288	10720	68	1.05(0.88-1.20)	
PCB-38											
255.9613	25:59	25:59	-3	0.968	1406169	290146	2335	5837	124		
257.9584	25:59	25:59	-3	0.968	1386514	280332	4288	10720	65	1.01(0.88-1.20)	
PCB-35											
255.9613	26:28	26:28	-2	0.986	1618410	319066	2335	5837	137		
257.9584	26:28	26:28	-2	0.986	1547765	308286	4288	10720	72	1.05(0.88-1.20)	
PCB-37											
255.9613	26:52	26:52	-2	1.001	1525150	294777	2335	5837	126		
257.9584	26:52	26:52	-2	1.001	1467572	279571	4288	10720	65	1.04(0.88-1.20)	
PCB-54L											
301.9626	20:09	20:09	-3	0.816	697958	178942	82	205	2182		
303.9597	20:09	20:09	-3	0.816	860193	213555	30	75	7119	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:40	24:43	-3		2032628	449659	283	707	1589		
303.9597	24:40	24:43	-3		2543502	565305	207	517	2731	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:35	33:33	-2	1.361	1955913	362224	283	707	1280		
303.9597	33:35	33:33	-2	1.361	2444215	451354	207	517	2180	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:09	34:07	-2	1.384	2107649	374701	283	707	1324		
303.9597	34:09	34:07	-2	1.384	2619109	473708	207	517	2288	0.80(0.65-0.89)	
PCB-54											
289.9224	20:09	20:12	-3	1.000	400207	99441	44	110	2260		
291.9194	20:09	20:12	-3	1.000	533106	132429	75	187	1766	0.75(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:19	22:17	-3	1.107	1382817	314674	725	1812	434		
291.9194	22:19	22:17	-3	1.107	1734368	393326	1319	3297	298	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:19	22:17	-3	1.107	1382817	314674	725	1812	434		
291.9194	22:19	22:17	-3	1.107	1734368	393326	1319	3297	298	0.80(0.65-0.89)	
PCB-45											
289.9224	23:03	23:03	-2	1.144	1391030	180538	725	1812	249		M
291.9194	23:03	23:03	-2	1.144	1764053	232122	1319	3297	176	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:03	23:03	-2	1.144	1391030	180538	725	1812	249		M
291.9194	23:03	23:03	-2	1.144	1764053	232122	1319	3297	176	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:18	23:16	-3	1.156	593817	141722	725	1812	195		
291.9194	23:18	23:16	-3	1.156	765309	172020	1319	3297	130	0.78(0.65-0.89)	
PCB-52											
289.9224	24:42	24:40	-2	1.226	767923	180092	725	1812	248		
291.9194	24:42	24:40	-2	1.226	996727	225825	1319	3297	171	0.77(0.65-0.89)	
PCB-43											
289.9224	24:50	24:50	-2	1.233	1800192	235396	725	1812	325		M
291.9194	24:50	24:50	-3	1.233	2303045	299512	1319	3297	227	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:50	24:50	-2	1.233	1800192	235396	725	1812	325		M
291.9194	24:50	24:50	-3	1.233	2303045	299512	1319	3297	227	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:07	25:05	-2	1.247	1743864	243796	725	1812	336		
291.9194	25:07	25:05	-3	1.247	2227344	311863	1319	3297	236	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:07	25:05	-2	1.247	1743864	243796	725	1812	336		
291.9194	25:07	25:05	-3	1.247	2227344	311863	1319	3297	236	0.78(0.65-0.89)	
PCB-48											
289.9224	25:27	25:26	-3	1.264	730242	170159	725	1812	235		
291.9194	25:27	25:26	-3	1.264	935675	207325	1319	3297	157	0.78(0.65-0.89)	
PCB-44											
289.9224	25:42	25:40	-3	1.276	2446488	485478	725	1812	670		
291.9194	25:42	25:40	-3	1.276	3106224	599941	1319	3297	455	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:42	25:40	-3	1.276	2446488	485478	725	1812	670		
291.9194	25:42	25:40	-3	1.276	3106224	599941	1319	3297	455	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:42	25:40	-3	1.276	2446488	485478	725	1812	670		
291.9194	25:42	25:40	-3	1.276	3106224	599941	1319	3297	455	0.79(0.65-0.89)	
PCB-59											
289.9224	26:01	25:58	-2	1.292	2865847	447024	725	1812	617		
291.9194	26:01	25:58	-2	1.292	3683177	548787	1319	3297	416	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:01	25:58	-2	1.292	2865847	447024	725	1812	617		
291.9194	26:01	25:58	-2	1.292	3683177	548787	1319	3297	416	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:01	25:58	-2	1.292	2865847	447024	725	1812	617		
291.9194	26:01	25:58	-2	1.292	3683177	548787	1319	3297	416	0.78(0.65-0.89)	
PCB-42											
289.9224	26:12	26:11	-3	1.301	709139	151479	725	1812	209		
291.9194	26:13	26:11	-2	1.302	957958	205567	1319	3297	156	0.74(0.65-0.89)	
PCB-40											
289.9224	26:43	26:43	-2	1.326	2286597	346860	725	1812	478		M
291.9194	26:43	26:43	-2	1.326	2936495	449827	1319	3297	341	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:43	26:43	-2	1.326	2286597	346860	725	1812	478		M
291.9194	26:43	26:43	-2	1.326	2936495	449827	1319	3297	341	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:43	26:43	-2	1.326	2286597	346860	725	1812	478		M
291.9194	26:43	26:43	-2	1.326	2936495	449827	1319	3297	341	0.78(0.65-0.89)	M
PCB-64											
289.9224	26:55	26:53	-2	1.337	1006176	210964	725	1812	291		
291.9194	26:55	26:53	-2	1.337	1338934	275040	1319	3297	209	0.75(0.65-0.89)	
PCB-72											
289.9224	27:45	27:46	-3	0.826	946889	206226	725	1812	284		
291.9194	27:45	27:46	-3	0.826	1251238	269873	1319	3297	205	0.76(0.65-0.89)	
PCB-68											
289.9224	28:02	28:02	-2	0.835	1133889	227145	725	1812	313		
291.9194	28:02	28:02	-2	0.835	1440831	285999	1319	3297	217	0.79(0.65-0.89)	
PCB-57											
289.9224	28:27	28:28	-2	0.847	959016	209660	725	1812	289		
291.9194	28:27	28:28	-3	0.847	1272251	263518	1319	3297	200	0.75(0.65-0.89)	
PCB-58											
289.9224	28:42	28:42	-2	0.855	1251665	269296	725	1812	371		
291.9194	28:42	28:42	-2	0.855	1612574	332074	1319	3297	252	0.78(0.65-0.89)	
PCB-67											
289.9224	28:51	28:51	-2	0.859	1188567	237646	725	1812	328		
291.9194	28:51	28:51	-2	0.859	1560669	309805	1319	3297	235	0.76(0.65-0.89)	
PCB-63											
289.9224	29:07	29:07	-2	0.867	1011899	211628	725	1812	292		
291.9194	29:07	29:07	-2	0.867	1301661	250273	1319	3297	190	0.78(0.65-0.89)	
PCB-61											
289.9224	29:28	29:28	-2	0.877	4457836	526591	725	1812	726		M
291.9194	29:28	29:28	-2	0.877	5654978	662152	1319	3297	502	0.79(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:28	29:28	-2	0.877	4457836	526591	725	1812	726		M
291.9194	29:28	29:28	-2	0.877	5654978	662152	1319	3297	502	0.79(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											M
289.9224	29:28	29:28	-2	0.877	4457836	526591	725	1812	726		M
291.9194	29:28	29:28	-2	0.877	5654978	662152	1319	3297	502	0.79(0.65-0.89)	
PCB-76 (C61)											M
289.9224	29:28	29:28	-2	0.877	4457836	526591	725	1812	726		M
291.9194	29:28	29:28	-2	0.877	5654978	662152	1319	3297	502	0.79(0.65-0.89)	
PCB-66											
289.9224	29:47	29:47	-2	0.887	1162050	233270	725	1812	322		
291.9194	29:47	29:47	-2	0.887	1554547	298485	1319	3297	226	0.75(0.65-0.89)	
PCB-55											
289.9224	29:57	29:57	-2	0.892	1242892	252026	725	1812	348		
291.9194	29:57	29:57	-2	0.892	1610510	327131	1319	3297	248	0.77(0.65-0.89)	
PCB-56											
289.9224	30:28	30:28	-2	0.907	1141320	235087	725	1812	324		
291.9194	30:28	30:28	-2	0.907	1490718	295355	1319	3297	224	0.77(0.65-0.89)	
PCB-60											
289.9224	30:41	30:40	-1	0.914	977567	197946	725	1812	273		
291.9194	30:40	30:40	-2	0.913	1287994	251732	1319	3297	191	0.76(0.65-0.89)	
PCB-80											
289.9224	31:04	31:04	-2	0.925	1200562	237755	725	1812	328		
291.9194	31:04	31:04	-2	0.925	1553532	300615	1319	3297	228	0.77(0.65-0.89)	
PCB-79											
289.9224	32:36	32:36	-2	0.971	1245912	214690	725	1812	296		
291.9194	32:36	32:36	-2	0.971	1550304	277991	1319	3297	211	0.80(0.65-0.89)	
PCB-78											
289.9224	33:10	33:10	-2	0.987	1102995	199373	725	1812	275		
291.9194	33:10	33:10	-2	0.987	1410665	248606	1319	3297	188	0.78(0.65-0.89)	
PCB-81											
289.9224	33:36	33:36	-2	1.000	939818	173109	725	1812	239		
291.9194	33:36	33:36	-2	1.000	1204903	221258	1319	3297	168	0.78(0.65-0.89)	
PCB-77											
289.9224	34:10	34:11	-2	1.001	1044845	178811	725	1812	247		
291.9194	34:10	34:11	-2	1.001	1271778	225941	1319	3297	171	0.82(0.65-0.89)	
PCB-104L											
337.9207	25:36	25:37	-2	0.813	1713549	371768	224	560	1660		
339.9178	25:36	25:37	-2	0.813	1090301	241654	45	112	5370	1.57(1.32-1.78)	
PCB-101L											
337.9207	31:30	31:31	-1		2013133	408399	224	560	1823		
339.9178	31:30	31:31	-1		1210240	246110	45	112	5469	1.66(1.32-1.78)	
PCB-111L											
337.9207	34:10	34:09	-2	1.084	1852996	361670	224	560	1615		
339.9178	34:10	34:09	-2	1.084	1179407	232279	45	112	5162	1.57(1.32-1.78)	
PCB-123L											
337.9207	36:07	36:07	-2	1.147	2661800	517636	2189	5472	236		
339.9178	36:07	36:07	-2	1.147	1642040	324431	1514	3785	214	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:27	36:27	-2	1.157	2798163	543841	2189	5472	248		
339.9178	36:27	36:27	-2	1.157	1728565	340215	1514	3785	225	1.62(1.32-1.78)	
PCB-114L											
337.9207	36:59	36:58	-2	1.174	2758423	534036	2189	5472	244		
339.9178	36:59	36:58	-2	1.174	1717371	333016	1514	3785	220	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:38	37:37	-2	1.195	2798745	521636	2189	5472	238		
339.9178	37:38	37:37	-2	1.195	1737393	322196	1514	3785	213	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:06	39:07	-2		3564422	654532	2189	5472	299		
339.9178	39:06	39:07	-2		2266029	428253	1514	3785	283	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:43	40:42	-2	1.293	2862378	531927	2189	5472	243		
339.9178	40:43	40:42	-2	1.293	1769265	324424	1514	3785	214	1.62(1.32-1.78)	
PCB-104											
325.8804	25:38	25:37	-2	1.001	831896	185553	176	440	1054		
327.8775	25:38	25:37	-2	1.001	511000	113821	103	257	1105	1.63(1.32-1.78)	
PCB-96											
325.8804	26:01	26:01	-3	1.016	867667	192977	176	440	1096		
327.8775	26:01	26:01	-3	1.016	535491	116011	103	257	1126	1.62(1.32-1.78)	
PCB-103											
325.8804	27:55	27:54	-2	1.090	733811	160079	176	440	910		
327.8775	27:55	27:54	-2	1.090	463642	102335	103	257	994	1.58(1.32-1.78)	
PCB-94											
325.8804	28:10	28:09	-2	1.100	632094	135770	176	440	771		
327.8775	28:10	28:09	-2	1.100	398413	84035	103	257	816	1.59(1.32-1.78)	
PCB-95											
325.8804	28:37	28:35	-2	1.117	698555	146052	176	440	830		
327.8775	28:36	28:35	-3	1.117	436795	92308	103	257	896	1.60(1.32-1.78)	
PCB-93											
325.8804	28:48	28:47	-2	1.125	1341704	231270	176	440	1314		
327.8775	28:48	28:47	-2	1.125	865687	147772	103	257	1435	1.55(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:48	28:47	-2	1.125	1341704	231270	176	440	1314		
327.8775	28:48	28:47	-2	1.125	865687	147772	103	257	1435	1.55(1.32-1.78)	
PCB-98											
325.8804	28:58	28:58	-2	1.131	1402073	166607	176	440	947		
327.8775	28:57	28:58	-3	1.131	855549	108447	103	257	1053	1.64(1.32-1.78)	
PCB-102 (C98)											
325.8804	28:58	28:58	-2	1.131	1402073	166607	176	440	947		
327.8775	28:57	28:58	-3	1.131	855549	108447	103	257	1053	1.64(1.32-1.78)	
PCB-88											
325.8804	29:27	29:26	-2	1.150	1306729	137177	176	440	779		
327.8775	29:28	29:26	-1	1.151	819999	90940	103	257	883	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:27	29:26	-2	1.150	1306729	137177	176	440	779		
327.8775	29:28	29:26	-1	1.151	819999	90940	103	257	883	1.59(1.32-1.78)	
PCB-84											
325.8804	29:42	29:41	-2	1.160	638831	130806	176	440	743		
327.8775	29:42	29:41	-2	1.160	402146	86738	103	257	842	1.59(1.32-1.78)	
PCB-89											
325.8804	30:10	30:09	-2	1.178	633716	131405	176	440	747		
327.8775	30:10	30:09	-2	1.178	405304	89028	103	257	864	1.56(1.32-1.78)	
PCB-121											
325.8804	30:33	30:31	-1	1.193	1095158	217310	176	440	1235		
327.8775	30:33	30:31	-1	1.193	684017	140120	103	257	1360	1.60(1.32-1.78)	
PCB-92											
325.8804	30:56	30:56	-2	0.856	735586	152954	176	440	869		
327.8775	30:56	30:56	-2	0.856	449141	93955	103	257	912	1.64(1.32-1.78)	
PCB-90											
325.8804	31:30	31:28	-2	1.230	2449001	361315	176	440	2053		
327.8775	31:30	31:28	-2	1.230	1540910	233130	103	257	2263	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:30	31:28	-2	1.230	2449001	361315	176	440	2053		
327.8775	31:30	31:28	-2	1.230	1540910	233130	103	257	2263	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:30	31:28	-2	1.230	2449001	361315	176	440	2053		
327.8775	31:30	31:28	-2	1.230	1540910	233130	103	257	2263	1.59(1.32-1.78)	
PCB-83											
325.8804	32:05	32:04	-2	1.253	1444281	187482	176	440	1065		
327.8775	32:05	32:04	-2	1.253	923399	117027	103	257	1136	1.56(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:05	32:04	-2	1.253	1444281	187482	176	440	1065		
327.8775	32:05	32:04	-2	1.253	923399	117027	103	257	1136	1.56(1.32-1.78)	
PCB-112											
325.8804	32:13	32:11	-2	1.258	1173406	233983	176	440	1329		
327.8775	32:13	32:11	-2	1.258	730542	150606	103	257	1462	1.61(1.32-1.78)	
PCB-86											
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:35	32:35	-1	1.273	5317829	542771	176	440	3084		M
327.8775	32:34	32:35	-2	1.272	3307487	343148	103	257	3332	1.61(1.32-1.78)	M
PCB-85											
325.8804	33:19	33:16	-1	1.301	2665968	315400	176	440	1792		
327.8775	33:19	33:16	-1	1.301	1640287	191411	103	257	1858	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:19	33:16	-1	1.301	2665968	315400	176	440	1792		
327.8775	33:19	33:16	-1	1.301	1640287	191411	103	257	1858	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:19	33:16	-1	1.301	2665968	315400	176	440	1792		
327.8775	33:19	33:16	-1	1.301	1640287	191411	103	257	1858	1.63(1.32-1.78)	
PCB-110											
325.8804	33:31	33:29	-2	1.309	2048013	299207	176	440	1700		
327.8775	33:31	33:29	-2	1.309	1324807	198806	103	257	1930	1.55(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:31	33:29	-2	1.309	2048013	299207	176	440	1700		
327.8775	33:31	33:29	-2	1.309	1324807	198806	103	257	1930	1.55(1.32-1.78)	
PCB-82											
325.8804	33:50	33:48	-2	1.321	737789	137215	176	440	780		
327.8775	33:50	33:48	-2	1.321	447492	84515	103	257	821	1.65(1.32-1.78)	
PCB-111											
325.8804	34:11	34:09	-2	1.335	1034589	202422	176	440	1150		
327.8775	34:12	34:09	-1	1.336	682045	132851	103	257	1290	1.52(1.32-1.78)	
PCB-120											
325.8804	34:39	34:37	-2	1.353	1263728	251417	176	440	1429		
327.8775	34:39	34:37	-2	1.353	777144	152754	103	257	1483	1.63(1.32-1.78)	
PCB-108											
325.8804	35:48	35:46	-2	1.398	2747900	528498	1687	4217	313		
327.8775	35:48	35:46	-2	1.398	1762058	344649	1520	3800	227	1.56(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:48	35:46	-2	1.398	2747900	528498	1687	4217	313		
327.8775	35:48	35:46	-2	1.398	1762058	344649	1520	3800	227	1.56(1.32-1.78)	
PCB-107											
325.8804	36:02	36:00	-2	1.407	1474005	281805	1687	4217	167		
327.8775	36:02	36:00	-2	1.407	950553	175569	1520	3800	116	1.55(1.32-1.78)	
PCB-123											
325.8804	36:09	36:09	-2	1.001	1220050	259615	1687	4217	154		
327.8775	36:09	36:09	-2	1.001	802950	177004	1520	3800	116	1.52(1.32-1.78)	
PCB-106											
325.8804	36:16	36:16	-2	1.004	1417683	273353	1687	4217	162		
327.8775	36:16	36:16	-2	1.004	901189	173462	1520	3800	114	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:29	36:29	-2	1.001	1525150	287517	1687	4217	170		
327.8775	36:29	36:29	-2	1.001	985230	182412	1520	3800	120	1.55(1.32-1.78)	
PCB-122											
325.8804	36:50	36:50	-2	1.010	1227735	241166	1687	4217	143		
327.8775	36:50	36:50	-2	1.010	779674	153062	1520	3800	101	1.57(1.32-1.78)	
PCB-114											
325.8804	37:00	37:00	-2	1.001	1395746	255416	1687	4217	151		
327.8775	37:00	37:00	-2	1.001	867749	154078	1520	3800	101	1.61(1.32-1.78)	
PCB-105											
325.8804	37:40	37:40	-1	1.001	1515521	275552	1687	4217	163		
327.8775	37:40	37:40	-2	1.001	972481	168332	1520	3800	111	1.56(1.32-1.78)	
PCB-127											
325.8804	39:07	39:07	-2	1.039	1499536	258340	1687	4217	153		
327.8775	39:07	39:07	-2	1.039	937286	169162	1520	3800	111	1.60(1.32-1.78)	
PCB-126											
325.8804	40:44	40:44	-2	1.000	1473213	246824	1687	4217	146		
327.8775	40:44	40:44	-2	1.000	924194	156702	1520	3800	103	1.59(1.32-1.78)	
PCB-155L											
371.8817	31:15	31:14	-1	0.790	1385054	281953	69	172	4086		
373.8788	31:14	31:14	-2	0.789	1080866	221989	53	132	4188	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:34	39:36	-2		2240807	439177	700	1750	627		
373.8788	39:34	39:36	-2		1770477	354212	696	1740	509	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:34	42:32	-1	1.076	2285223	443401	700	1750	633		
373.8788	42:34	42:32	-1	1.076	1795434	346515	696	1740	498	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:43	43:42	-2	1.105	4591811	576491	700	1750	824		
373.8788	43:43	43:42	-2	1.105	3587905	447137	696	1740	642	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:43	43:42	-2	1.105	4591811	576491	700	1750	824		
373.8788	43:43	43:42	-2	1.105	3587905	447137	696	1740	642	1.28(1.05-1.43)	
PCB-169L											
371.8817	46:57	46:55	-1	1.187	2421045	427185	700	1750	610		
373.8788	46:57	46:55	-1	1.187	1850394	333602	696	1740	479	1.31(1.05-1.43)	
PCB-155											
359.8415	31:15	31:15	-2	1.000	650326	133214	85	212	1567		
361.8385	31:15	31:15	-2	1.000	493759	105670	68	170	1554	1.32(1.05-1.43)	
PCB-152											
359.8415	31:29	31:29	-2	1.008	680654	141303	85	212	1662		
361.8385	31:30	31:29	-1	1.008	538101	111185	68	170	1635	1.26(1.05-1.43)	
PCB-150											
359.8415	31:39	31:39	-2	1.013	706787	145536	85	212	1712		
361.8385	31:39	31:39	-2	1.013	554599	111204	68	170	1635	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:02	32:02	-2	1.025	714085	148264	85	212	1744		
361.8385	32:02	32:02	-2	1.025	553726	115128	68	170	1693	1.29(1.05-1.43)	
PCB-145											
359.8415	32:19	32:18	-1	1.034	685817	139750	85	212	1644		
361.8385	32:19	32:18	-1	1.034	551404	111765	68	170	1644	1.24(1.05-1.43)	
PCB-148											
359.8415	33:49	33:48	-1	1.082	545385	111894	85	212	1316		
361.8385	33:48	33:48	-2	1.082	407133	86597	68	170	1273	1.34(1.05-1.43)	
PCB-135											
359.8415	34:24	34:29	-2	1.101	1062866	121138	85	212	1425		M
361.8385	34:29	34:29	3	1.104	798852	90211	68	170	1327	1.33(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:24	34:29	-2	1.101	1062866	121138	85	212	1425		M
361.8385	34:29	34:29	3	1.104	798852	90211	68	170	1327	1.33(1.05-1.43)	M
PCB-154											
359.8415	34:39	34:38	-2	1.109	593913	117340	85	212	1380		
361.8385	34:39	34:38	-2	1.109	454224	90410	68	170	1330	1.31(1.05-1.43)	
PCB-144											
359.8415	34:58	34:57	-2	1.119	563661	113092	85	212	1330		
361.8385	34:58	34:57	-2	1.119	448076	89692	68	170	1319	1.26(1.05-1.43)	
PCB-147											
359.8415	35:20	35:20	-2	1.131	1774273	341709	330	825	1035		
361.8385	35:20	35:20	-2	1.131	1403805	266645	247	617	1080	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:20	35:20	-2	1.131	1774273	341709	330	825	1035		
361.8385	35:20	35:20	-2	1.131	1403805	266645	247	617	1080	1.26(1.05-1.43)	
PCB-134											
359.8415	35:38	35:38	-2	1.141	1530871	161123	330	825	488		
361.8385	35:38	35:38	-2	1.141	1227960	133053	247	617	539	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:38	35:38	-2	1.141	1530871	161123	330	825	488		
361.8385	35:38	35:38	-2	1.141	1227960	133053	247	617	539	1.25(1.05-1.43)	
PCB-139											
359.8415	35:56	35:55	-2	1.150	1651715	282001	330	825	855		
361.8385	35:55	35:55	-3	1.149	1328423	220677	247	617	893	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	35:56	35:55	-2	1.150	1651715	282001	330	825	855		
361.8385	35:55	35:55	-3	1.149	1328423	220677	247	617	893	1.24(1.05-1.43)	
PCB-131											
359.8415	36:08	36:08	-2	1.157	686578	134491	330	825	408		
361.8385	36:08	36:08	-2	1.157	547788	109602	247	617	444	1.25(1.05-1.43)	
PCB-142											
359.8415	36:17	36:16	-2	1.161	764378	153137	330	825	464		
361.8385	36:17	36:16	-2	1.161	576299	109396	247	617	443	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:37	36:36	-2	1.172	705748	138801	330	825	421		
361.8385	36:37	36:36	-2	1.172	553205	105215	247	617	426	1.28(1.05-1.43)	
PCB-133											
359.8415	37:06	37:04	-1	1.187	784139	155615	330	825	472		
361.8385	37:05	37:04	-2	1.187	598830	119038	247	617	482	1.31(1.05-1.43)	
PCB-165											
359.8415	37:29	37:30	-2	0.880	1029717	199862	330	825	606		
361.8385	37:29	37:30	-2	0.880	822576	160842	247	617	651	1.25(1.05-1.43)	
PCB-146											
359.8415	37:44	37:44	-2	0.886	934146	179524	330	825	544		
361.8385	37:44	37:44	-2	0.886	740900	137598	247	617	557	1.26(1.05-1.43)	
PCB-161											
359.8415	37:51	37:52	-1	0.889	1070320	213167	330	825	646		
361.8385	37:51	37:52	-1	0.889	863944	171750	247	617	695	1.24(1.05-1.43)	
PCB-153											
359.8415	38:22	38:22	-1	0.901	2172609	307524	330	825	932		
361.8385	38:21	38:22	-2	0.901	1707838	243859	247	617	987	1.27(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:22	38:22	-1	0.901	2172609	307524	330	825	932		
361.8385	38:21	38:22	-2	0.901	1707838	243859	247	617	987	1.27(1.05-1.43)	
PCB-141											
359.8415	38:33	38:33	-1	0.906	818269	149502	330	825	453		
361.8385	38:32	38:33	-2	0.906	673021	122214	247	617	495	1.22(1.05-1.43)	
PCB-130											
359.8415	38:58	38:58	-1	0.915	703821	137037	330	825	415		
361.8385	38:58	38:58	-1	0.915	559997	111078	247	617	450	1.26(1.05-1.43)	
PCB-137											
359.8415	39:10	39:10	-1	0.920	779609	164699	330	825	499		
361.8385	39:10	39:10	-1	0.920	622383	128392	247	617	520	1.25(1.05-1.43)	
PCB-164											
359.8415	39:17	39:18	-2	0.923	1100225	210088	330	825	637		
361.8385	39:18	39:18	-1	0.923	886132	164637	247	617	667	1.24(1.05-1.43)	
PCB-129											
359.8415	39:36	39:36	-1	0.931	3809848	431676	330	825	1308		M
361.8385	39:36	39:36	-1	0.931	3024419	325899	247	617	1319	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:36	39:36	-1	0.931	3809848	431676	330	825	1308		M
361.8385	39:36	39:36	-1	0.931	3024419	325899	247	617	1319	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:36	39:36	-1	0.931	3809848	431676	330	825	1308		M
361.8385	39:36	39:36	-1	0.931	3024419	325899	247	617	1319	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:36	39:36	-1	0.931	3809848	431676	330	825	1308		M
361.8385	39:36	39:36	-1	0.931	3024419	325899	247	617	1319	1.26(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	39:58	39:59	-2	0.939	1294323	235887	330	825	715		
361.8385	39:58	39:59	-2	0.939	1040907	188266	247	617	762	1.24(1.05-1.43)	
PCB-128											
359.8415	40:49	40:50	-3	0.959	2020984	262873	330	825	797		
361.8385	40:50	40:50	-2	0.959	1598863	203653	247	617	825	1.26(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:49	40:50	-3	0.959	2020984	262873	330	825	797		
361.8385	40:50	40:50	-2	0.959	1598863	203653	247	617	825	1.26(1.05-1.43)	
PCB-159											
359.8415	41:50	41:49	-1	0.983	1404904	273333	330	825	828		
361.8385	41:50	41:49	-1	0.983	1127175	224234	247	617	908	1.25(1.05-1.43)	
PCB-162											
359.8415	42:07	42:07	-1	0.989	1284453	229980	330	825	697		
361.8385	42:06	42:07	-2	0.989	1045462	186480	247	617	755	1.23(1.05-1.43)	
PCB-167											
359.8415	42:35	42:35	-1	1.001	1181080	226039	330	825	685		
361.8385	42:35	42:35	-1	1.001	923246	176179	247	617	713	1.28(1.05-1.43)	
PCB-156											
359.8415	43:45	43:45	-1	1.001	2411609	302879	330	825	918		
361.8385	43:45	43:45	-2	1.001	1891949	243248	247	617	985	1.27(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:45	43:45	-1	1.001	2411609	302879	330	825	918		
361.8385	43:45	43:45	-2	1.001	1891949	243248	247	617	985	1.27(1.05-1.43)	
PCB-169											
359.8415	46:59	46:58	-1	1.001	1259076	215742	330	825	654		
361.8385	46:59	46:58	-1	1.001	1024540	182722	247	617	740	1.23(1.05-1.43)	
PCB-188L											
405.8428	36:58	36:57	-1	0.820	1547851	308338	47	117	6560		
407.8398	36:57	36:57	-2	0.820	1451419	281000	31	77	9065	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:01	40:01	-2	0.887	1145049	223535	47	117	4756		
407.8398	40:01	40:01	-1	0.888	1063213	205765	31	77	6638	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:05	45:07	-2		1625038	324699	47	117	6908		
407.8398	45:06	45:07	-1		1502117	295069	31	77	9518	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:21	46:21	-2	1.028	1112047	211619	47	117	4503		
407.8398	46:21	46:21	-2	1.028	1054548	194880	31	77	6286	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:28	49:27	-1	1.097	2597935	481278	829	2072	581		
407.8398	49:28	49:27	-1	1.097	2445794	450269	400	1000	1126	1.06(0.89-1.21)	
PCB-188											
393.8025	36:59	36:59	-2	1.000	778519	152008	31	77	4903		
395.7995	36:59	36:59	-2	1.000	763420	149158	30	75	4972	1.02(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179											
393.8025	37:21	37:21	-2	1.010	832278	166820	31	77	5381		
395.7995	37:21	37:21	-2	1.010	772861	147822	30	75	4927	1.08(0.89-1.21)	
PCB-184											
393.8025	37:51	37:50	-1	1.024	820769	167269	31	77	5396		
395.7995	37:51	37:50	-1	1.024	775503	162654	30	75	5422	1.06(0.89-1.21)	
PCB-176											
393.8025	38:13	38:13	-1	1.034	726700	146164	31	77	4715		
395.7995	38:13	38:13	-1	1.034	697091	135559	30	75	4519	1.04(0.89-1.21)	
PCB-186											
393.8025	38:40	38:40	-2	1.046	888419	175874	31	77	5673		
395.7995	38:40	38:40	-2	1.046	839631	163325	30	75	5444	1.06(0.89-1.21)	
PCB-178											
393.8025	40:02	40:02	-2	1.083	533475	109600	31	77	3535		
395.7995	40:02	40:02	-2	1.083	534176	105170	30	75	3506	1.00(0.89-1.21)	
PCB-175											
393.8025	40:40	40:39	-1	1.100	605681	122650	31	77	3956		
395.7995	40:40	40:39	-1	1.100	578013	116008	30	75	3867	1.05(0.89-1.21)	
PCB-187											
393.8025	40:57	40:56	-1	1.108	722025	141083	31	77	4551		
395.7995	40:57	40:56	-1	1.108	685469	128545	30	75	4285	1.05(0.89-1.21)	
PCB-182											
393.8025	41:09	41:07	-1	1.113	595113	114059	31	77	3679		
395.7995	41:09	41:07	-1	1.113	574274	109738	30	75	3658	1.04(0.89-1.21)	
PCB-183											
393.8025	41:32	41:32	-2	1.124	1232073	128108	31	77	4133		M
395.7995	41:32	41:32	-2	1.124	1112755	116515	30	75	3884	1.11(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:32	41:32	-2	1.124	1232073	128108	31	77	4133		M
395.7995	41:32	41:32	-2	1.124	1112755	116515	30	75	3884	1.11(0.89-1.21)	M
PCB-174											
393.8025	41:48	41:48	-2	1.131	627248	117281	31	77	3783		
395.7995	41:48	41:48	-2	1.131	581296	114518	30	75	3817	1.08(0.89-1.21)	
PCB-177											
393.8025	42:14	42:14	-2	1.143	631011	120635	31	77	3891		
395.7995	42:14	42:14	-2	1.143	574565	109252	30	75	3642	1.10(0.89-1.21)	
PCB-181											
393.8025	42:37	42:36	-2	1.153	603703	120429	31	77	3885		
395.7995	42:37	42:36	-2	1.153	557956	104224	30	75	3474	1.08(0.89-1.21)	
PCB-171											
393.8025	42:50	42:50	-2	1.159	1147628	203048	31	77	6550		
395.7995	42:51	42:50	-1	1.159	1099191	192898	30	75	6430	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:50	42:50	-2	1.159	1147628	203048	31	77	6550		
395.7995	42:51	42:50	-1	1.159	1099191	192898	30	75	6430	1.04(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:28	44:28	-2	0.899	546219	105573	31	77	3406		
395.7995	44:28	44:28	-2	0.899	530917	101112	30	75	3370	1.03(0.89-1.21)	
PCB-192											
393.8025	44:45	44:45	-2	0.905	930470	181982	31	77	5870		
395.7995	44:45	44:45	-2	0.905	880944	169741	30	75	5658	1.06(0.89-1.21)	
PCB-180											
393.8025	45:05	45:05	-2	0.912	1586599	231213	31	77	7458		
395.7995	45:04	45:05	-2	0.911	1458735	207893	30	75	6930	1.09(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:05	45:05	-2	0.912	1586599	231213	31	77	7458		
395.7995	45:04	45:05	-2	0.911	1458735	207893	30	75	6930	1.09(0.89-1.21)	
PCB-191											
393.8025	45:28	45:28	-2	0.919	915017	172612	31	77	5568		
395.7995	45:28	45:28	-2	0.919	858191	163456	30	75	5449	1.07(0.89-1.21)	
PCB-170											
393.8025	46:23	46:23	-2	0.938	588642	108756	31	77	3508		
395.7995	46:23	46:23	-2	0.938	569173	106878	30	75	3563	1.03(0.89-1.21)	
PCB-190											
393.8025	46:54	46:54	-2	0.948	893578	172084	31	77	5551		
395.7995	46:54	46:54	-2	0.948	868306	165982	30	75	5533	1.03(0.89-1.21)	
PCB-189											
393.8025	49:28	49:28	-2	1.000	1172738	212192	483	1207	439		
395.7995	49:29	49:28	-1	1.001	1140025	207343	378	945	549	1.03(0.89-1.21)	
PCB-202L											
439.8038	42:19	42:18	-1	0.821	1117745	226012	55	137	4109		
441.8008	42:19	42:18	-1	0.821	1228735	237625	45	112	5281	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:33	51:35	-2		2029955	377228	103	257	3662		
441.8008	51:33	51:35	-2		2232558	432823	120	300	3607	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:02	52:00	-1	1.009	1943599	353974	103	257	3437		
441.8008	52:02	52:00	-1	1.009	2134934	382574	120	300	3188	0.91(0.76-1.02)	
PCB-202											
427.7635	42:21	42:20	-1	1.001	577815	113043	64	160	1766		
429.7606	42:21	42:20	-1	1.001	620546	125427	55	137	2280	0.93(0.76-1.02)	
PCB-201											
427.7635	43:15	43:15	-2	1.022	557383	107806	64	160	1684		
429.7606	43:15	43:15	-2	1.022	611923	121629	55	137	2211	0.91(0.76-1.02)	
PCB-204											
427.7635	43:55	43:55	-2	1.038	560799	106309	64	160	1661		
429.7606	43:56	43:55	-1	1.038	601381	113065	55	137	2056	0.93(0.76-1.02)	
PCB-197											
427.7635	44:09	44:09	-2	1.043	594297	116326	64	160	1818		
429.7606	44:09	44:09	-2	1.043	664909	132010	55	137	2400	0.89(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:17	44:17	-2	1.046	576292	110275	64	160	1723		
429.7606	44:17	44:17	-2	1.046	626903	120062	55	137	2183	0.92(0.76-1.02)	
PCB-198											
427.7635	47:02	47:02	-2	1.111	971004	122208	64	160	1910		
429.7606	47:02	47:02	-2	1.111	1067325	137517	55	137	2500	0.91(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:02	47:02	-2	1.111	971004	122208	64	160	1910		
429.7606	47:02	47:02	-2	1.111	1067325	137517	55	137	2500	0.91(0.76-1.02)	
PCB-196											
427.7635	47:43	47:43	-1	0.917	451151	83778	64	160	1309		
429.7606	47:43	47:43	-1	0.917	471369	88151	55	137	1603	0.96(0.76-1.02)	
PCB-203											
427.7635	47:54	47:55	-2	0.921	534471	105740	64	160	1652		
429.7606	47:54	47:55	-2	0.921	567927	108279	55	137	1969	0.94(0.76-1.02)	
PCB-195											
427.7635	49:15	49:15	-1	0.947	762754	138293	221	552	626		
429.7606	49:15	49:15	-2	0.946	831818	160160	490	1225	327	0.92(0.76-1.02)	
PCB-194											
427.7635	51:35	51:34	-1	0.991	850184	159311	221	552	721		
429.7606	51:35	51:34	-1	0.991	952797	176950	490	1225	361	0.89(0.76-1.02)	
PCB-205											
427.7635	52:03	52:03	-2	1.000	1019822	189780	221	552	859		
429.7606	52:03	52:03	-2	1.000	1096013	205789	490	1225	420	0.93(0.76-1.02)	
PCB-208L											
473.7648	48:58	48:58	-2	0.950	1507945	283003	418	1045	677		
475.7619	48:58	48:58	-2	0.950	1873727	357315	400	1000	893	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:47	53:45	-1	1.043	1150545	214289	418	1045	513		
475.7619	53:47	53:45	-1	1.043	1432761	274523	400	1000	686	0.80(0.65-0.89)	
PCB-208											
461.7246	49:00	48:59	-1	1.001	799285	154946	313	782	495		
463.7216	49:00	48:59	-1	1.001	985517	190054	1479	3697	129	0.81(0.65-0.89)	
PCB-207											
461.7246	49:55	49:54	-1	1.019	841309	157613	313	782	504		
463.7216	49:55	49:54	-1	1.019	1011089	192486	1479	3697	130	0.83(0.65-0.89)	
PCB-206											
461.7246	53:48	53:48	-2	1.000	682856	126905	313	782	405		
463.7216	53:48	53:48	-2	1.000	829178	158063	1479	3697	107	0.82(0.65-0.89)	
PCB-209L											
507.7258	55:23	55:22	-2	1.074	1099616	193882	108	270	1795		
509.7229	55:23	55:22	-2	1.074	1570973	280229	123	307	2278	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:25	55:23	0	1.001	575392	100796	79	197	1276		
497.6826	55:24	55:23	-1	1.000	820330	143250	108	270	1326	0.70(0.59-0.79)	

QC Flag Legend

Processing Flags

Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

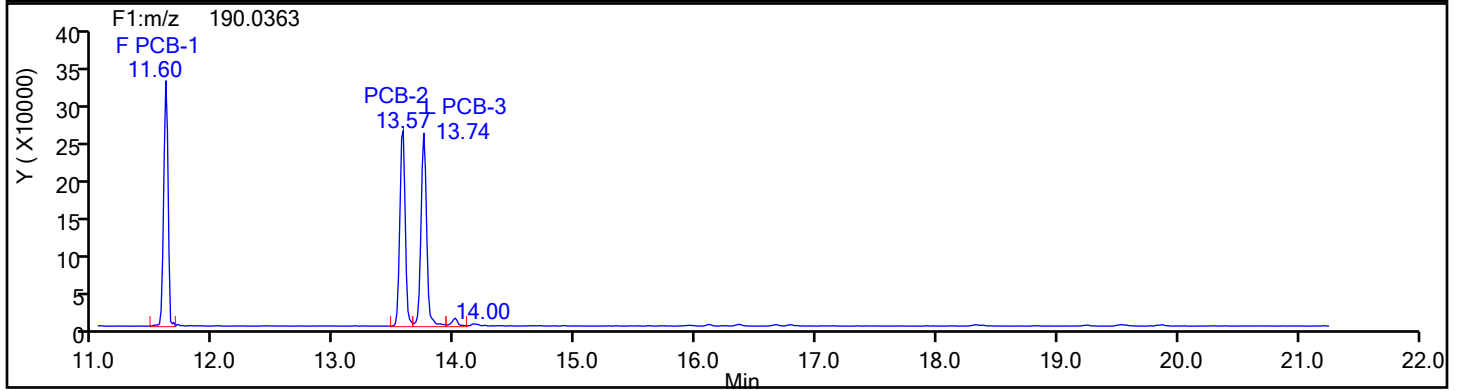
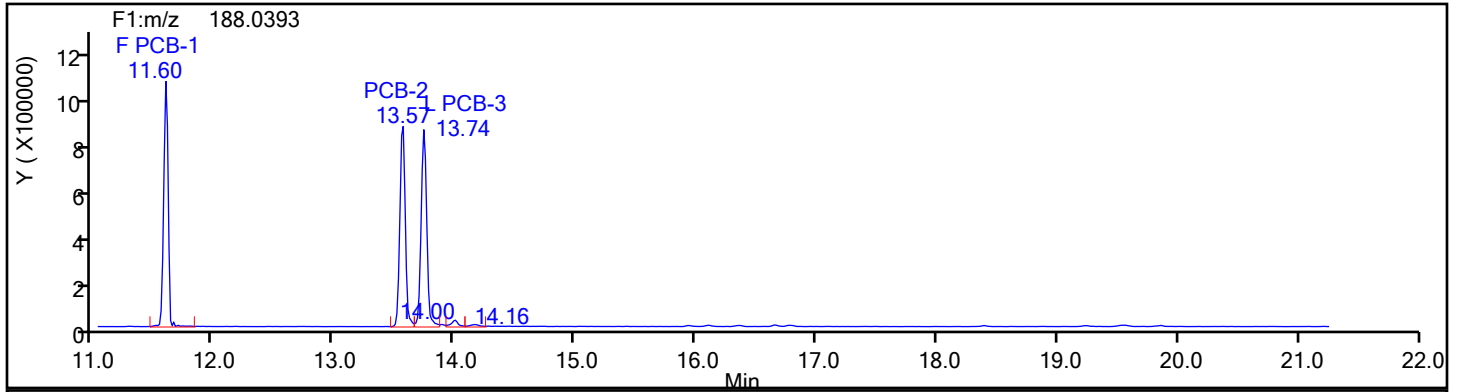
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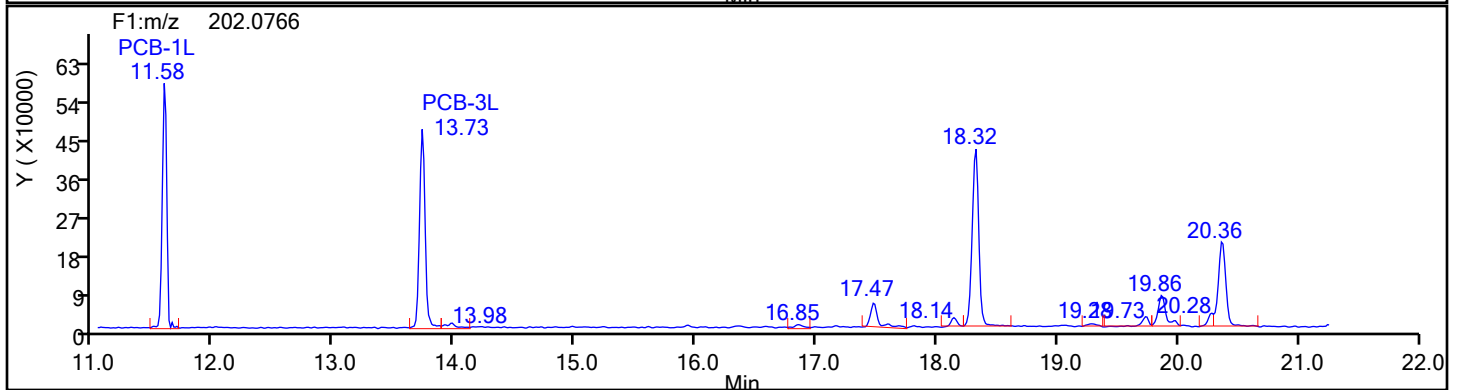
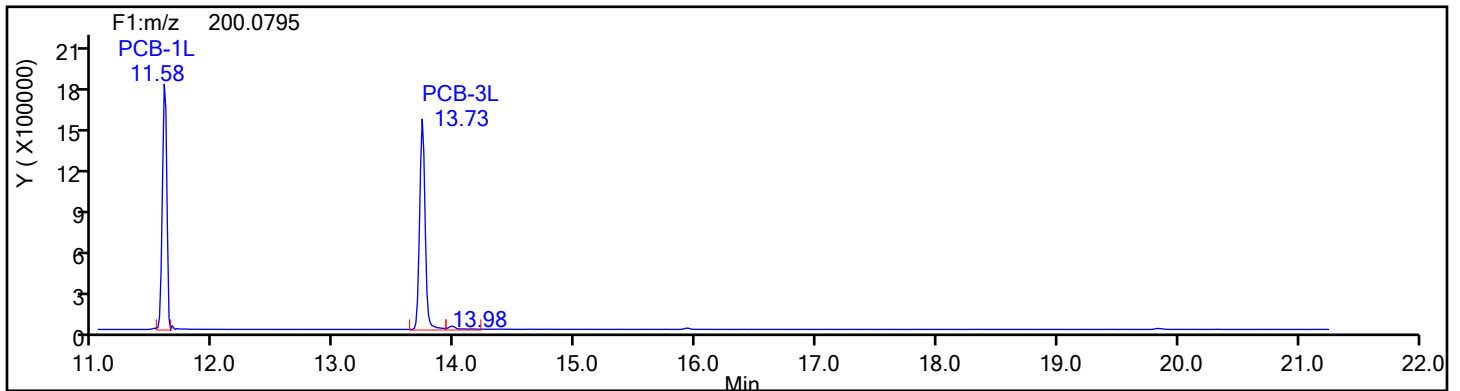
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

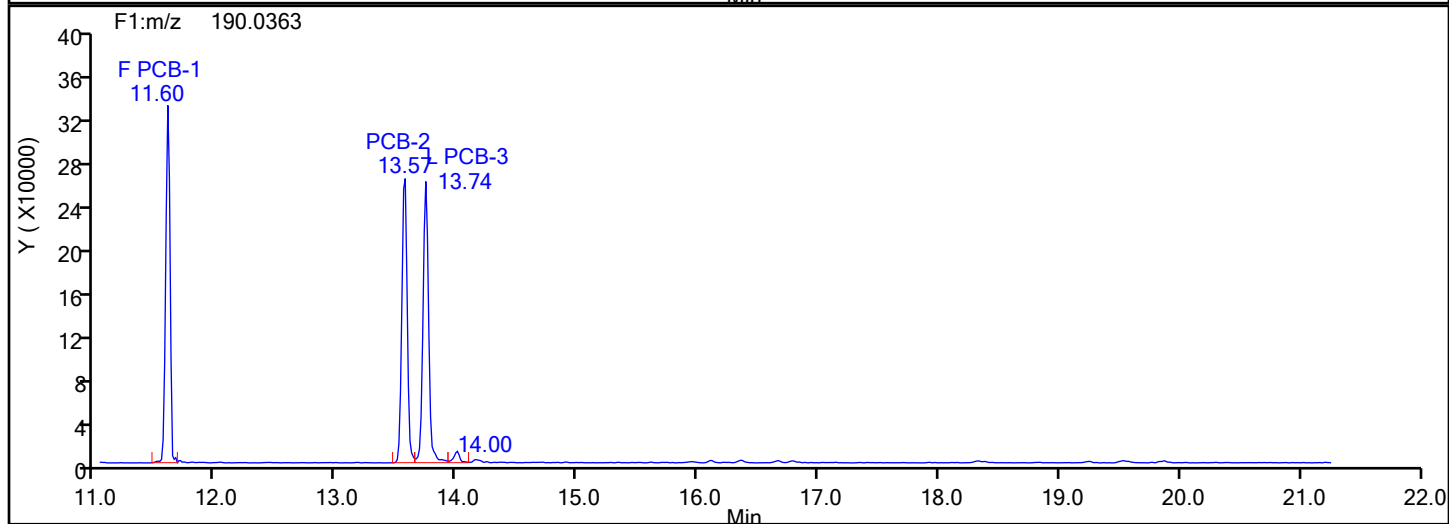
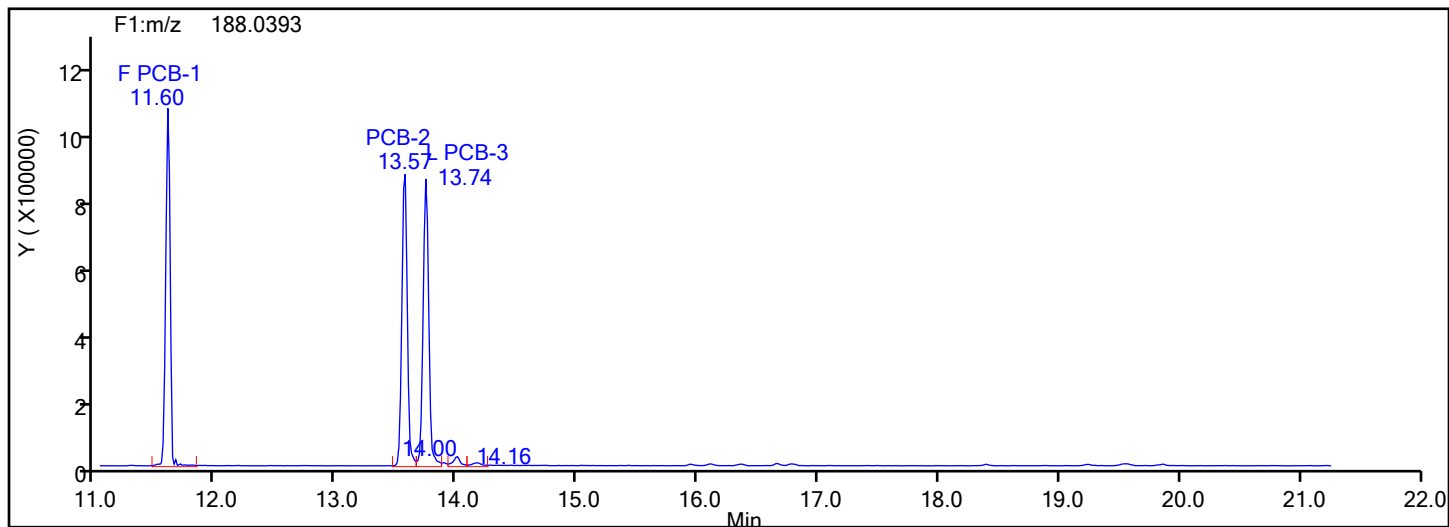
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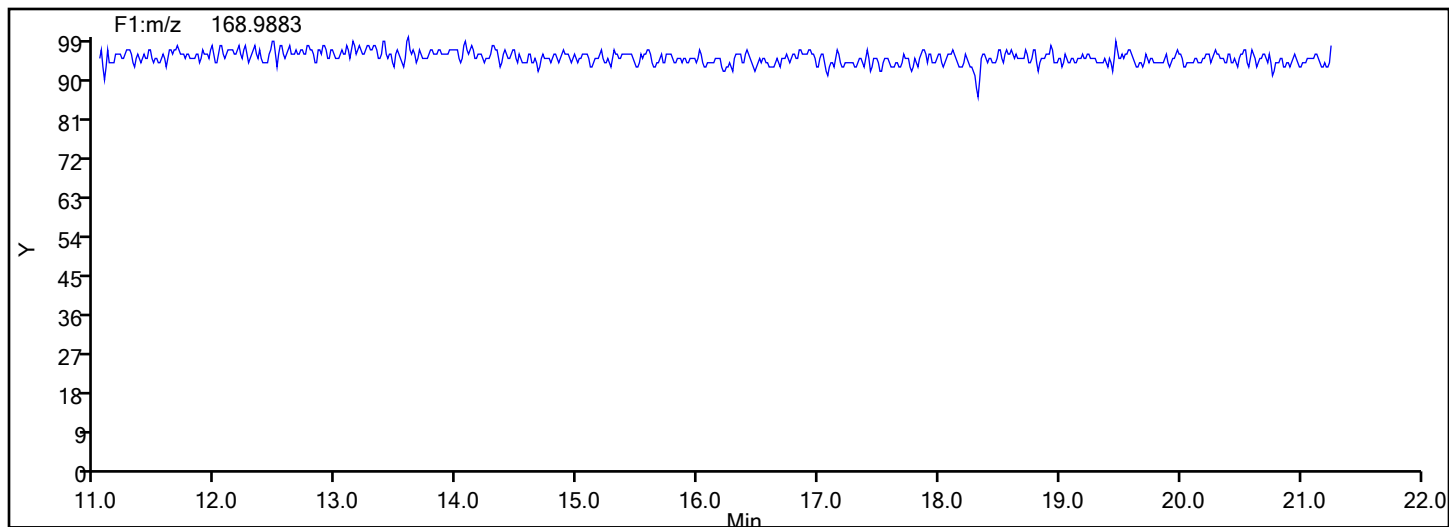
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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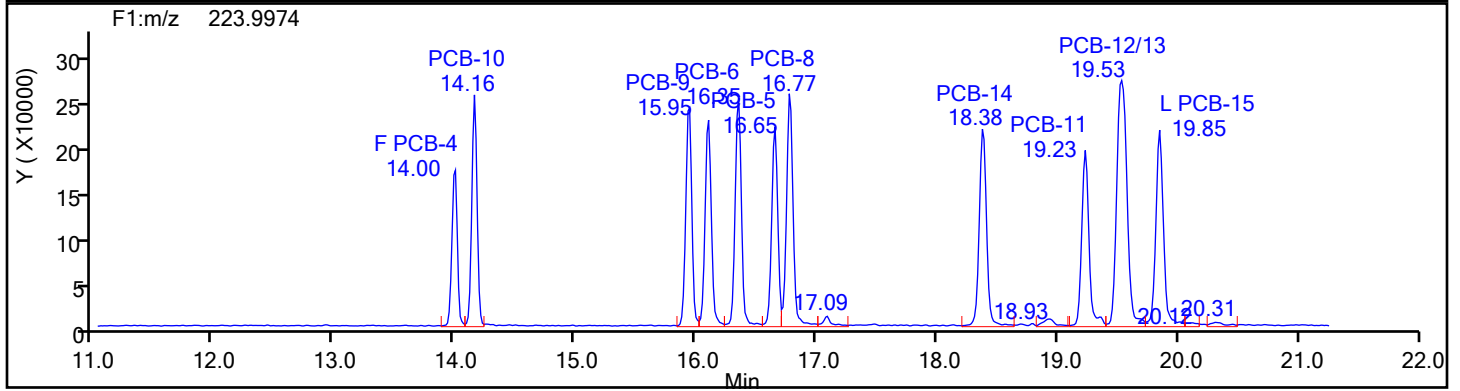
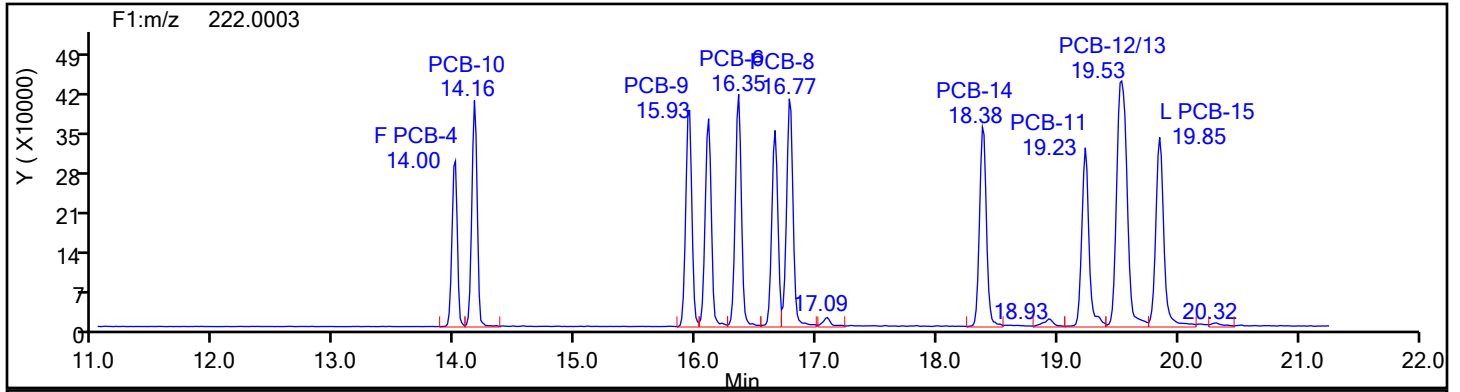
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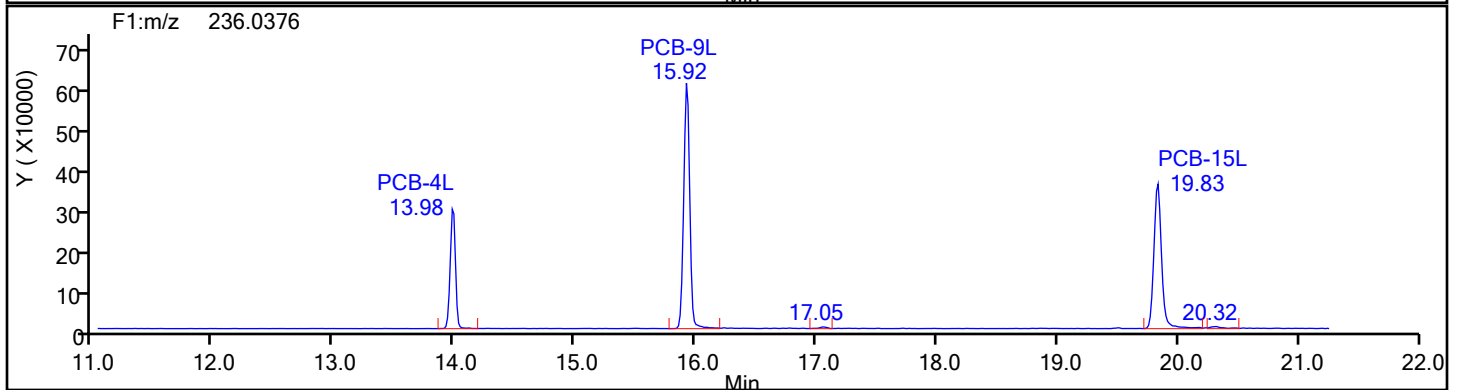
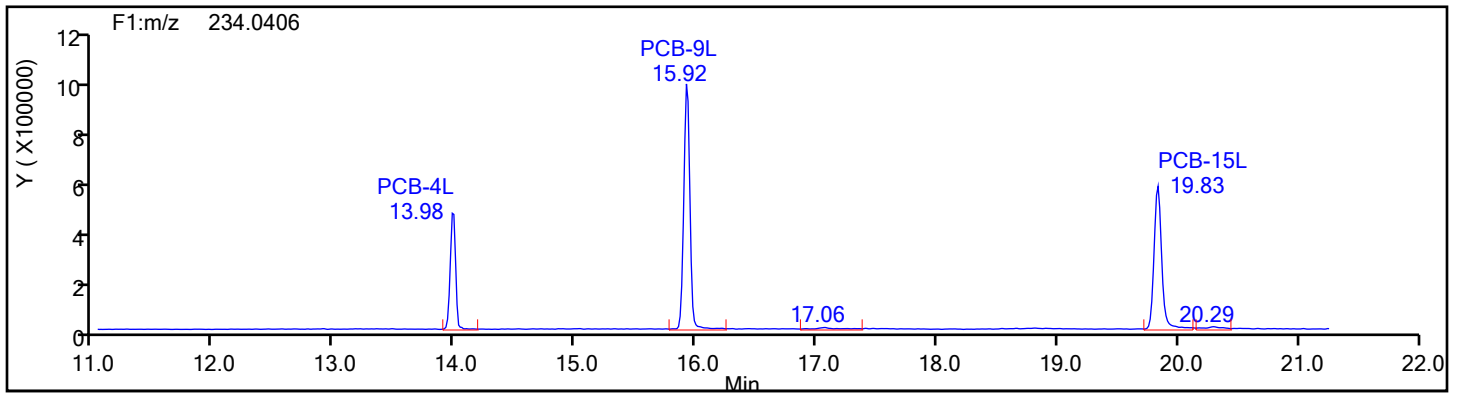
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

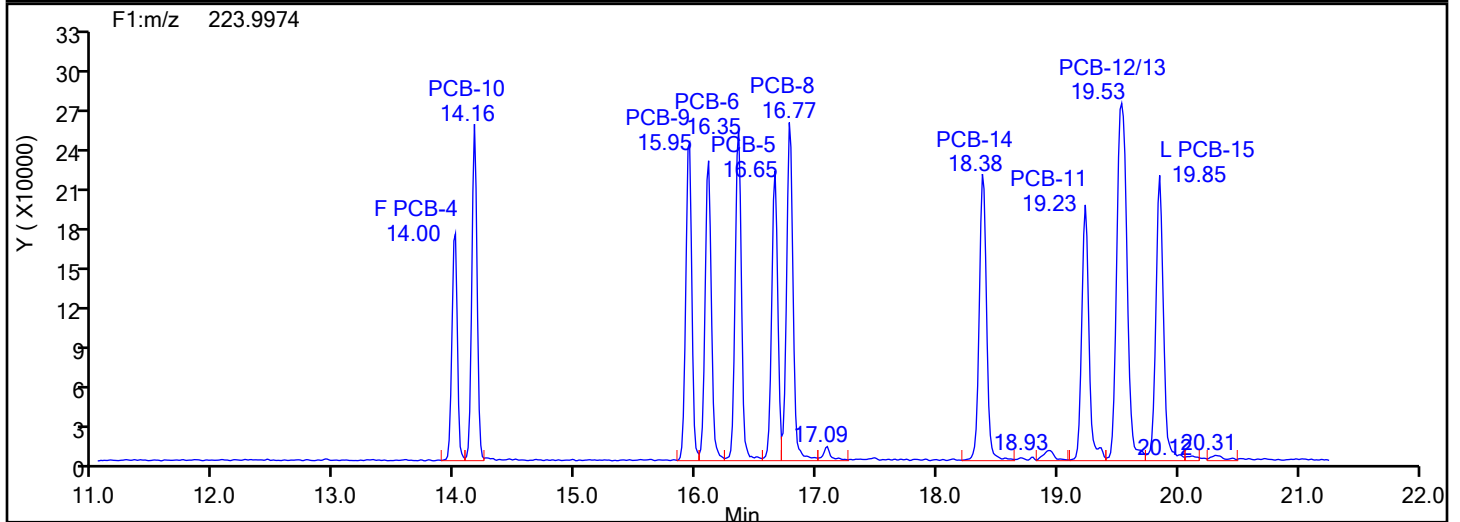
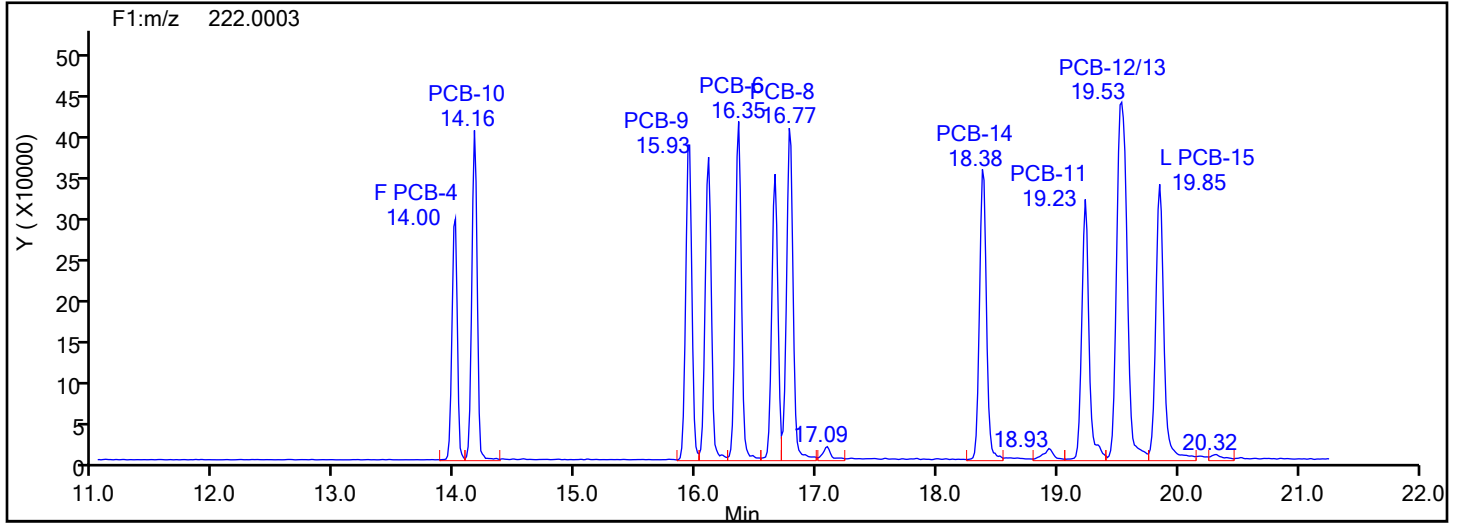
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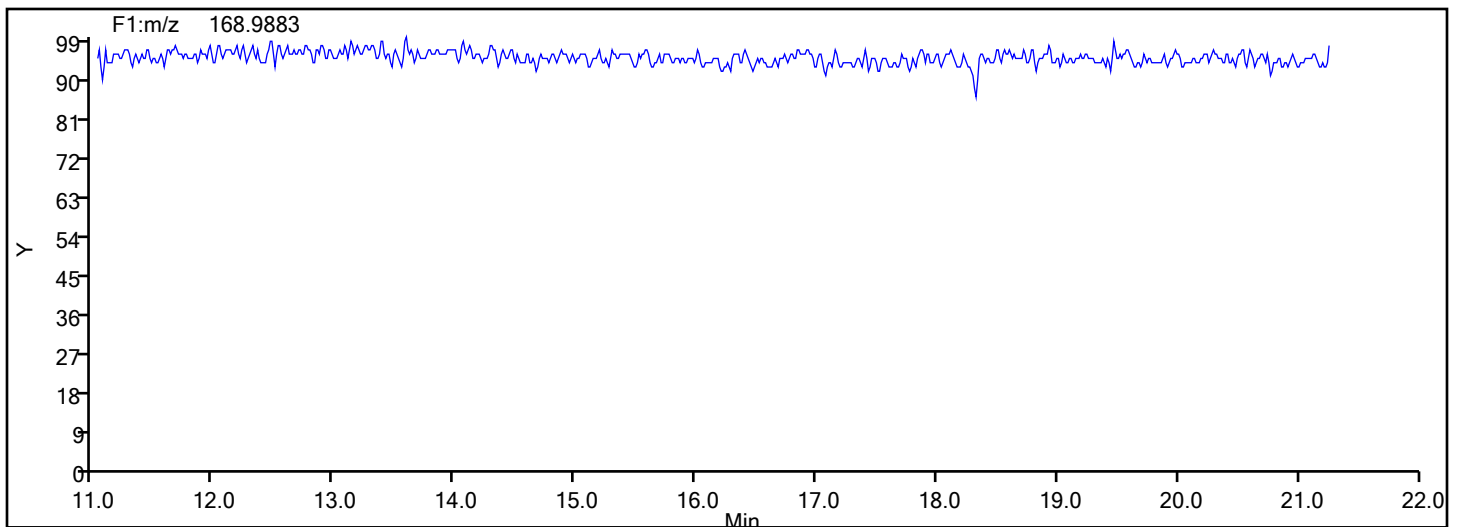
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

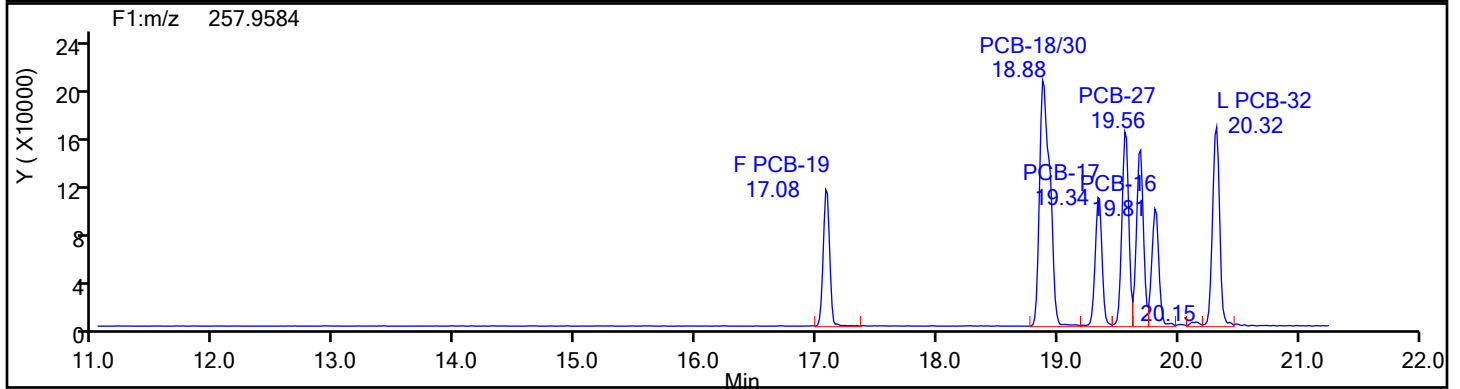
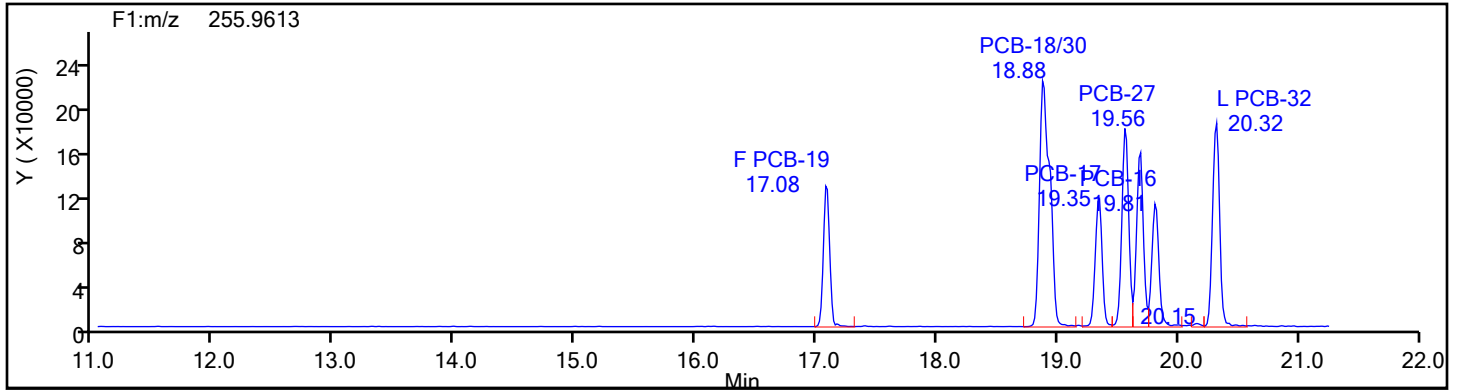
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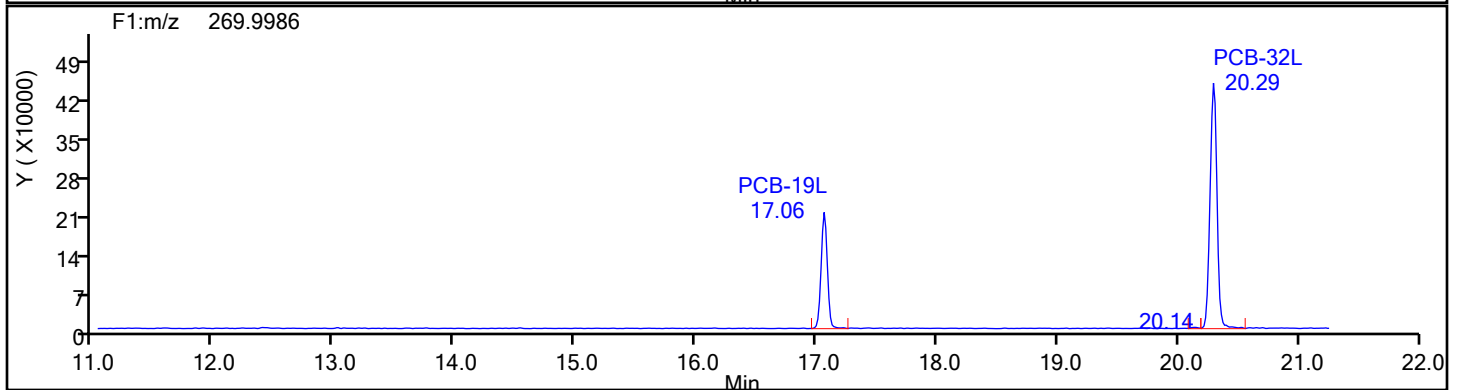
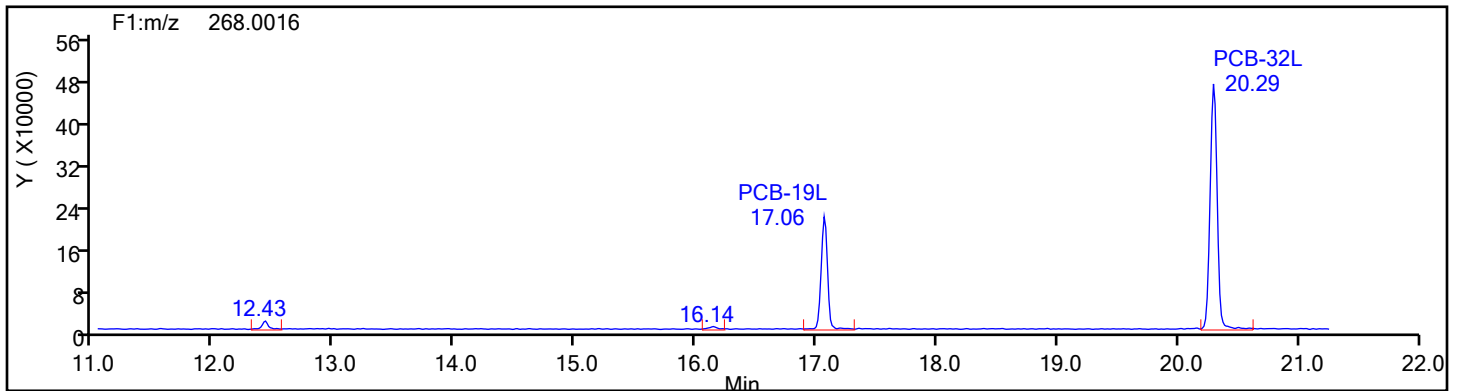
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

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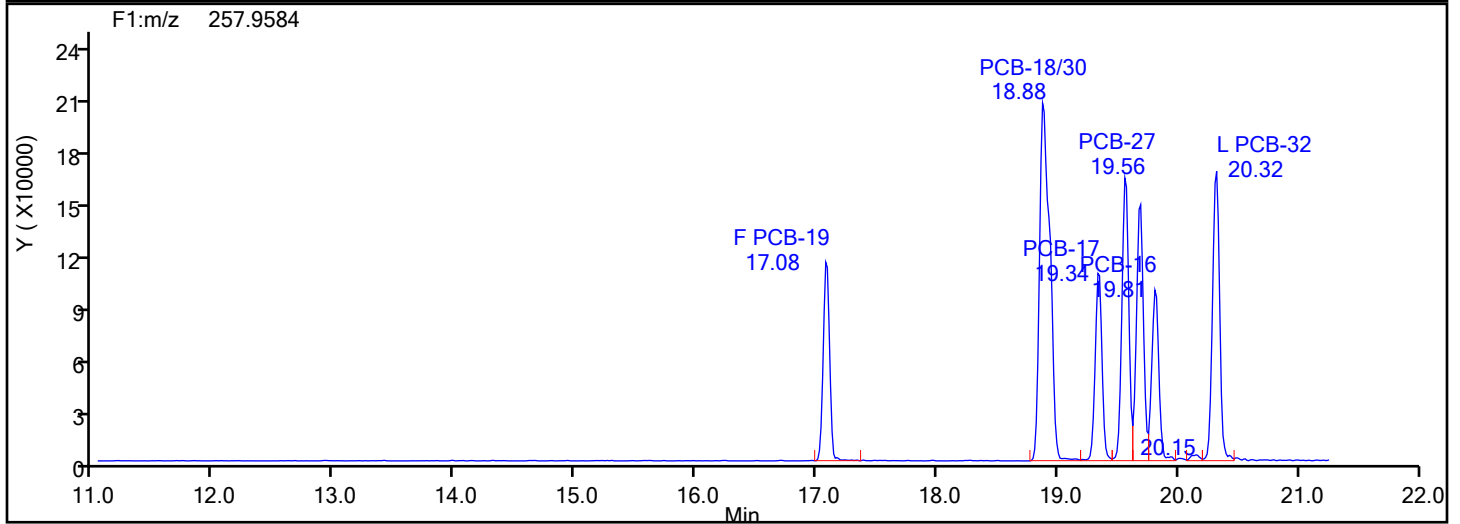
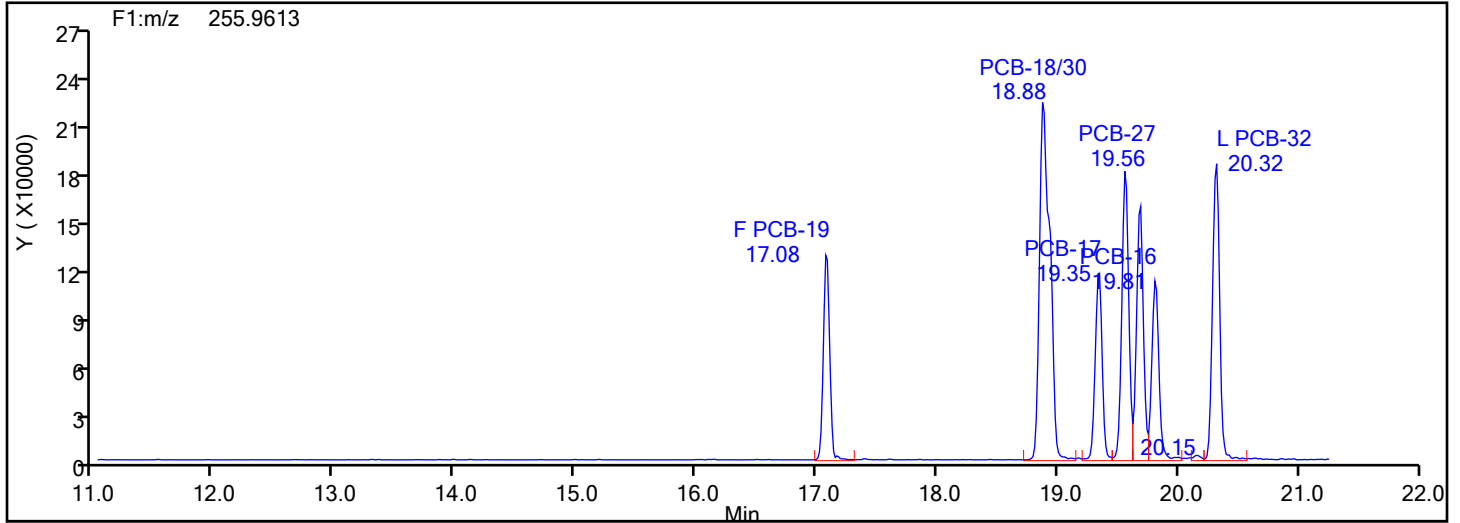
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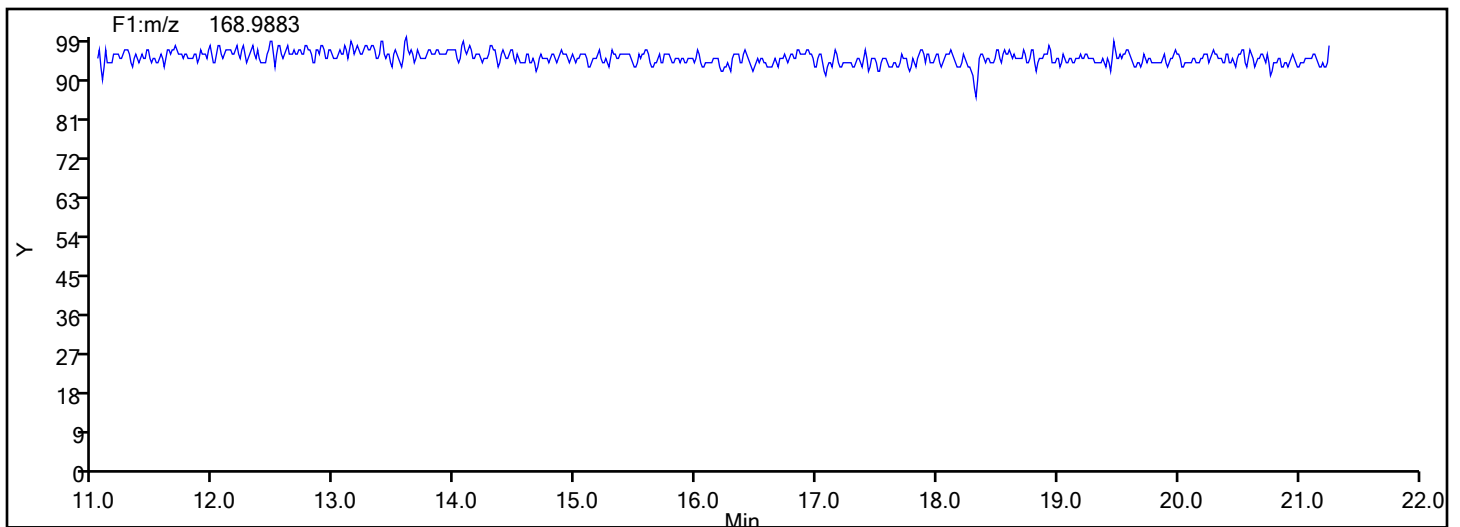
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



Eurofins Knoxville

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Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

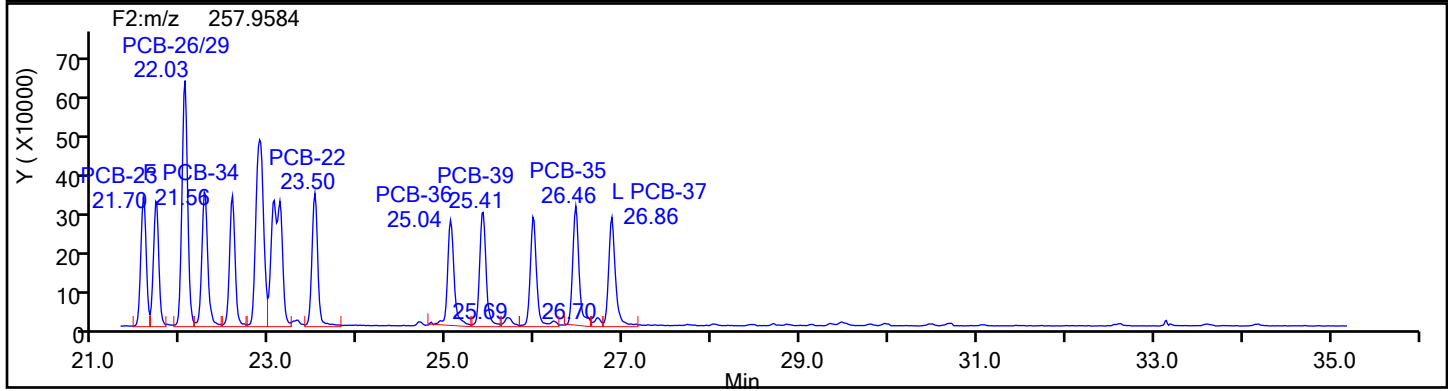
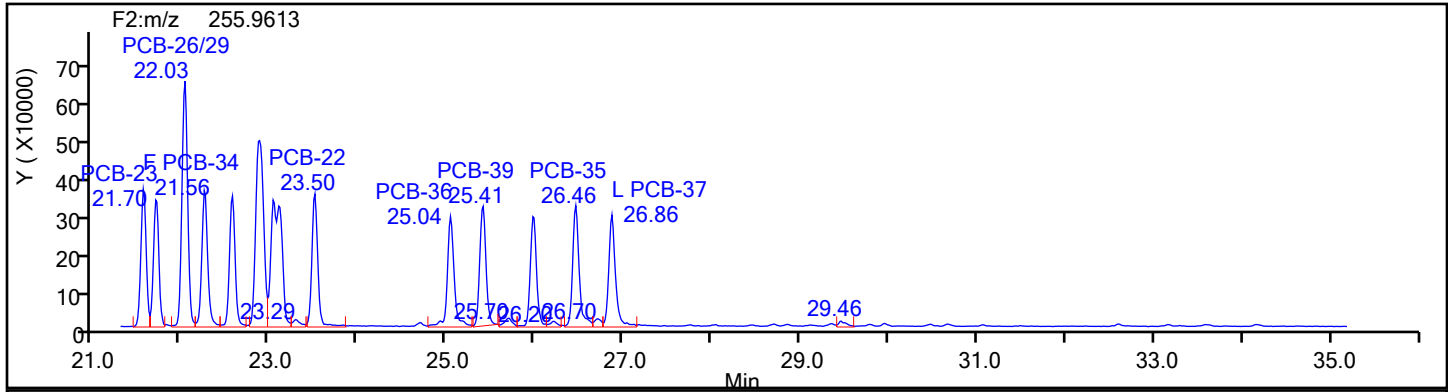
Worklist#: 88747

Sample Line#: 3

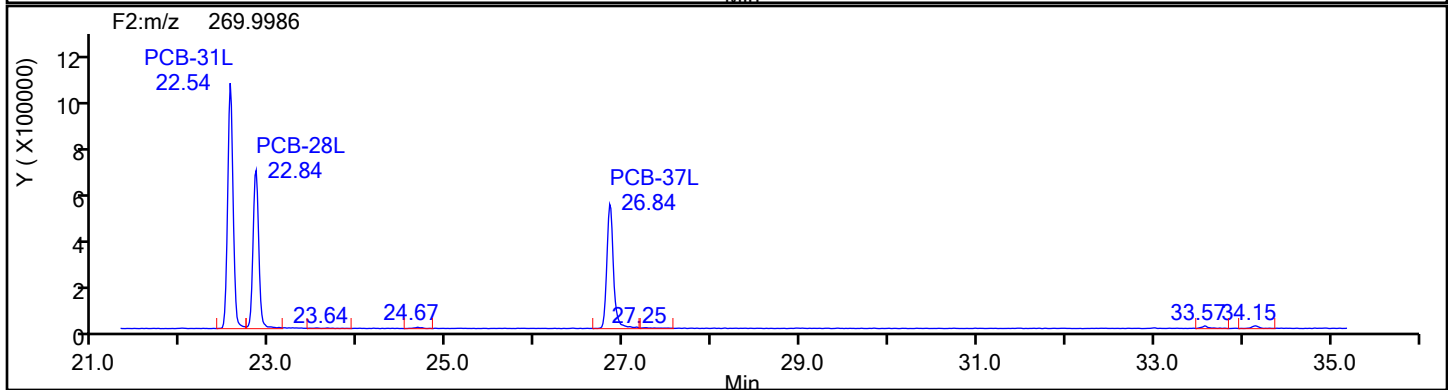
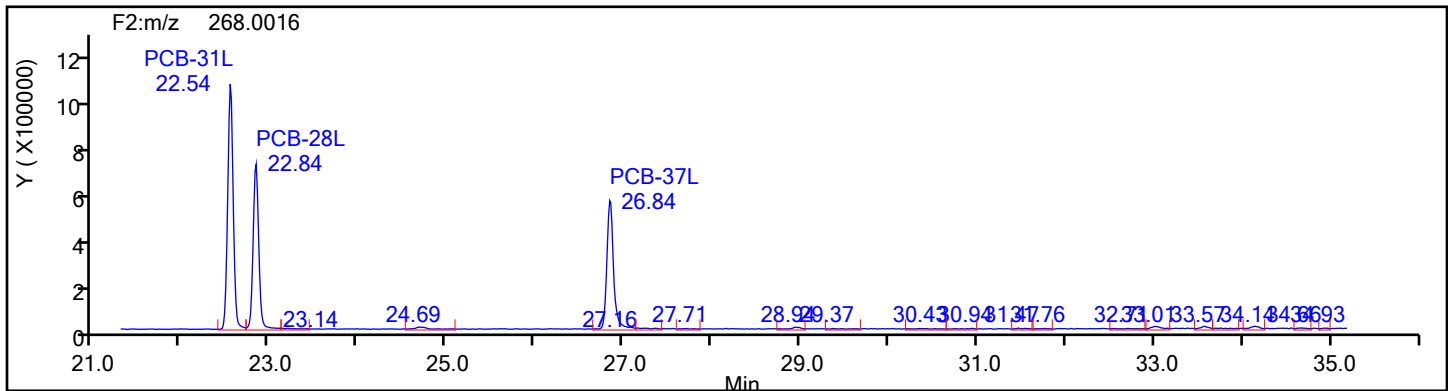
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

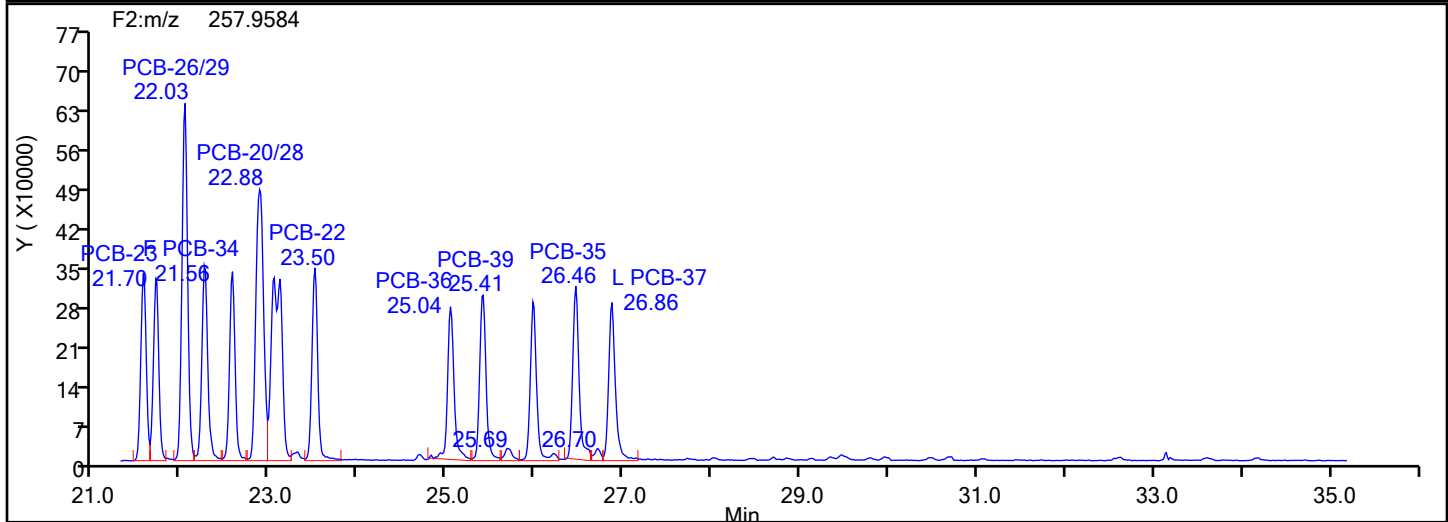
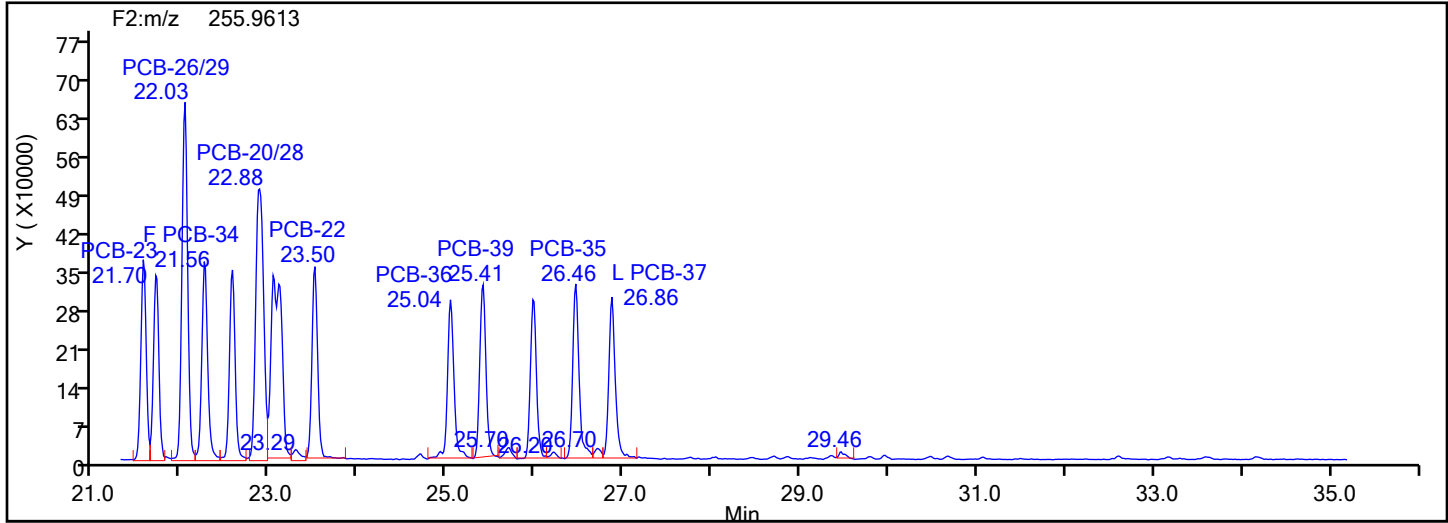
Worklist#: 88747

Sample Line#: 3

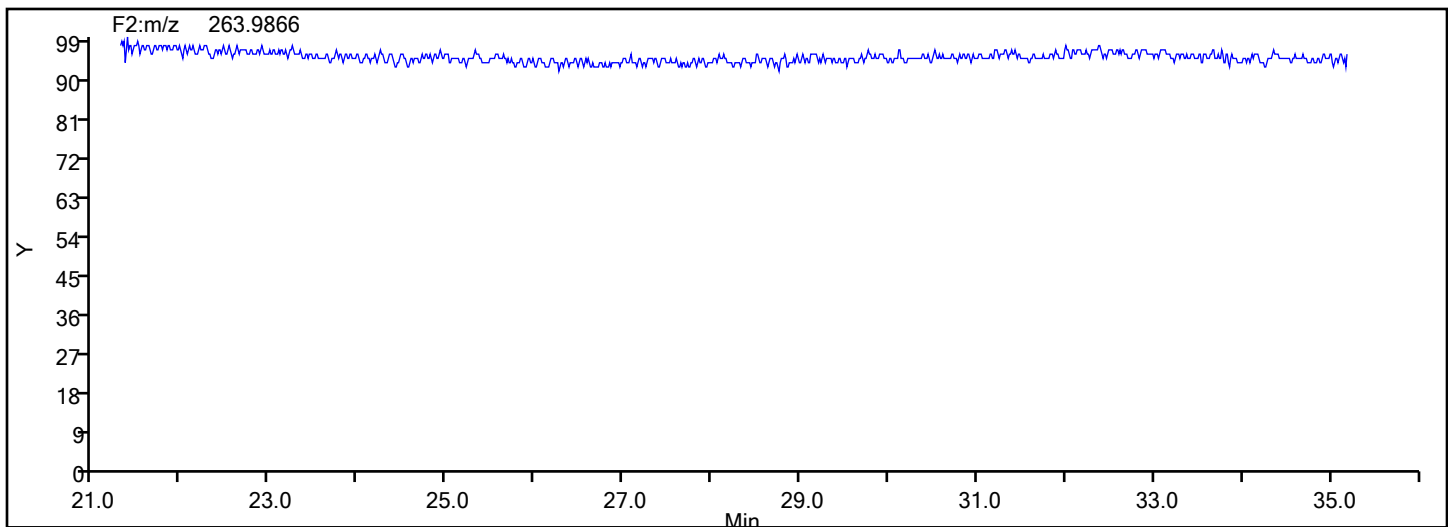
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

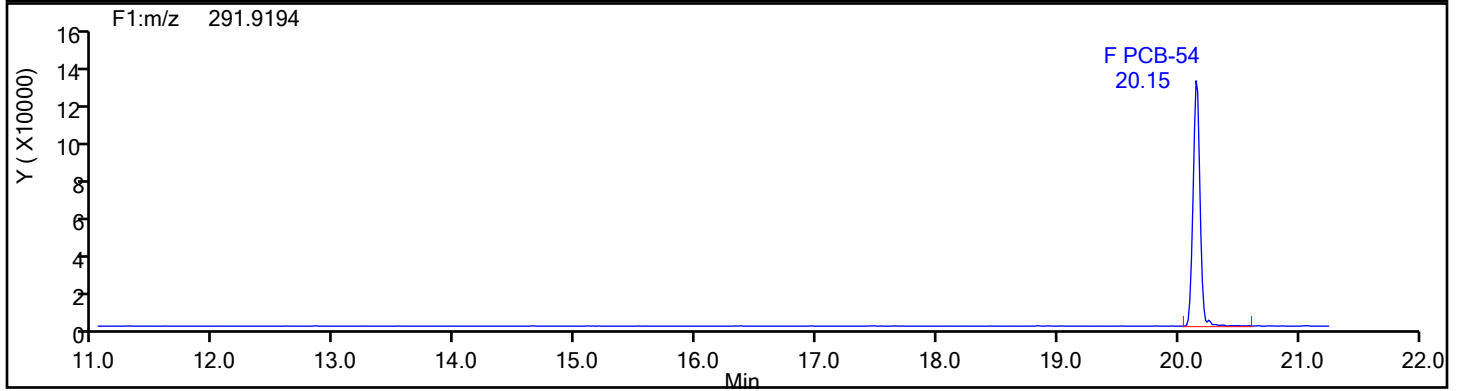
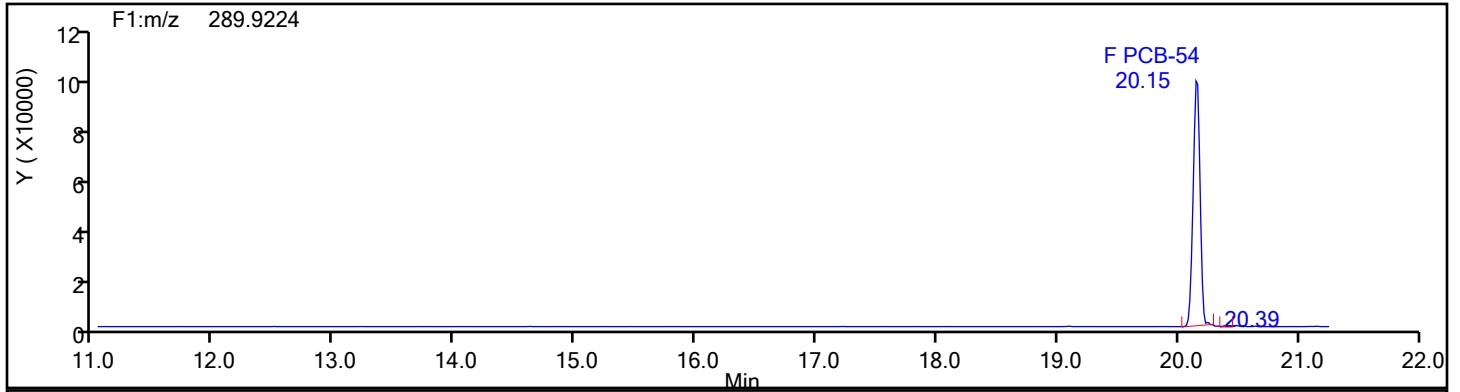
Worklist#: 88747

Sample Line#: 3

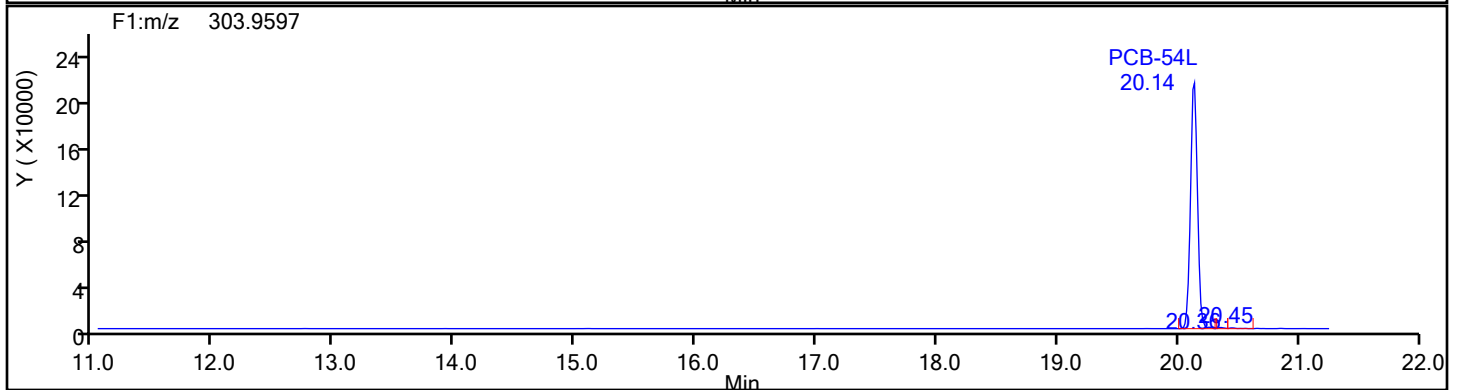
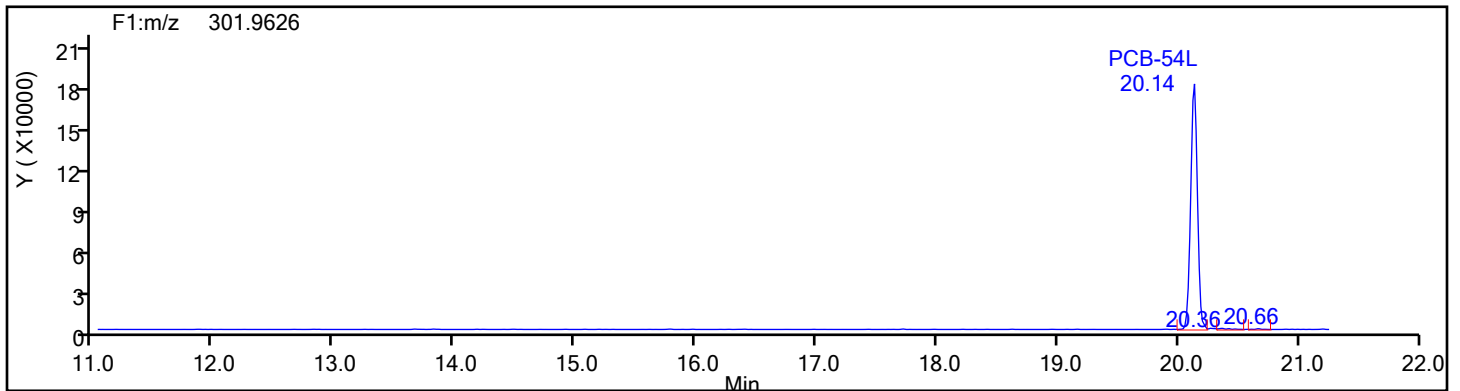
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

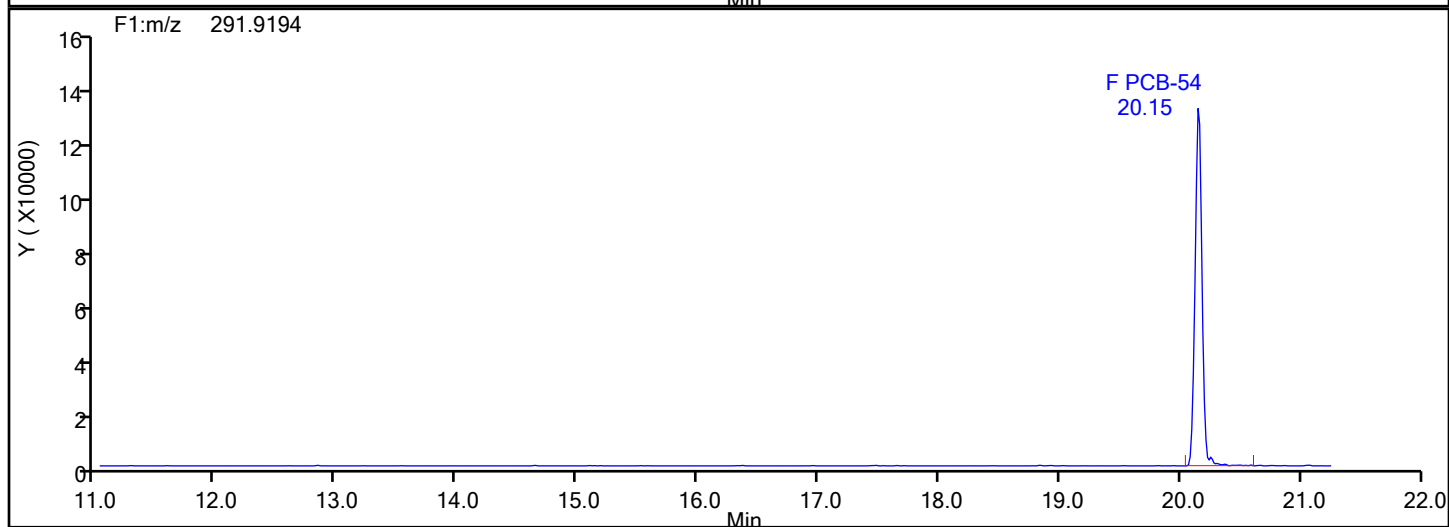
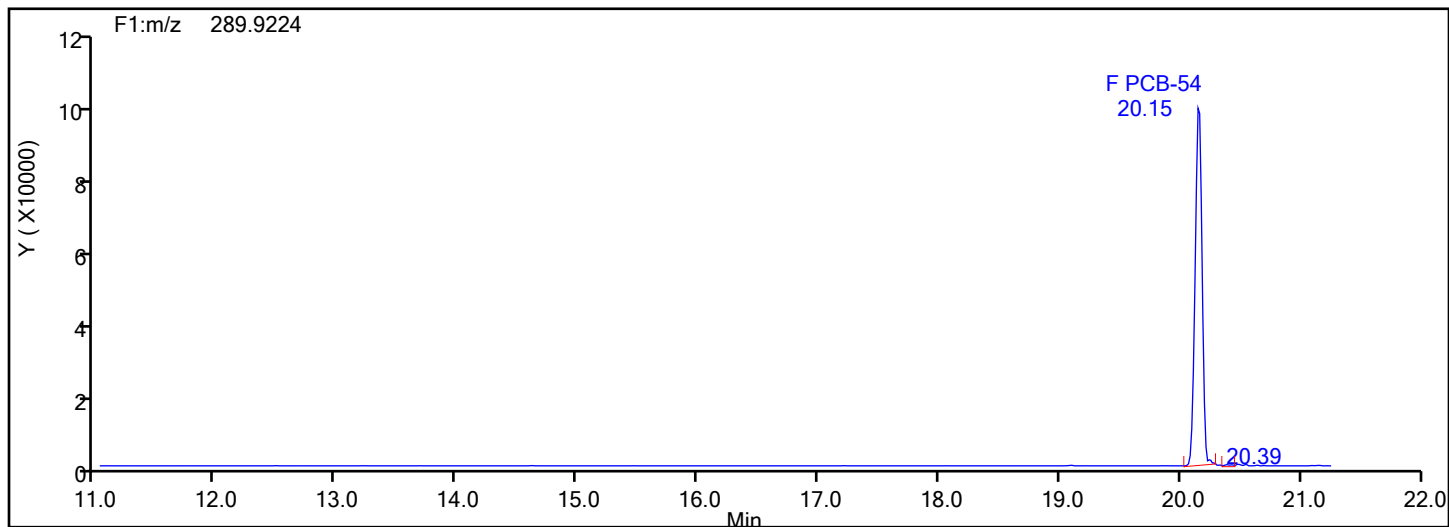
Worklist#: 88747

Sample Line#: 3

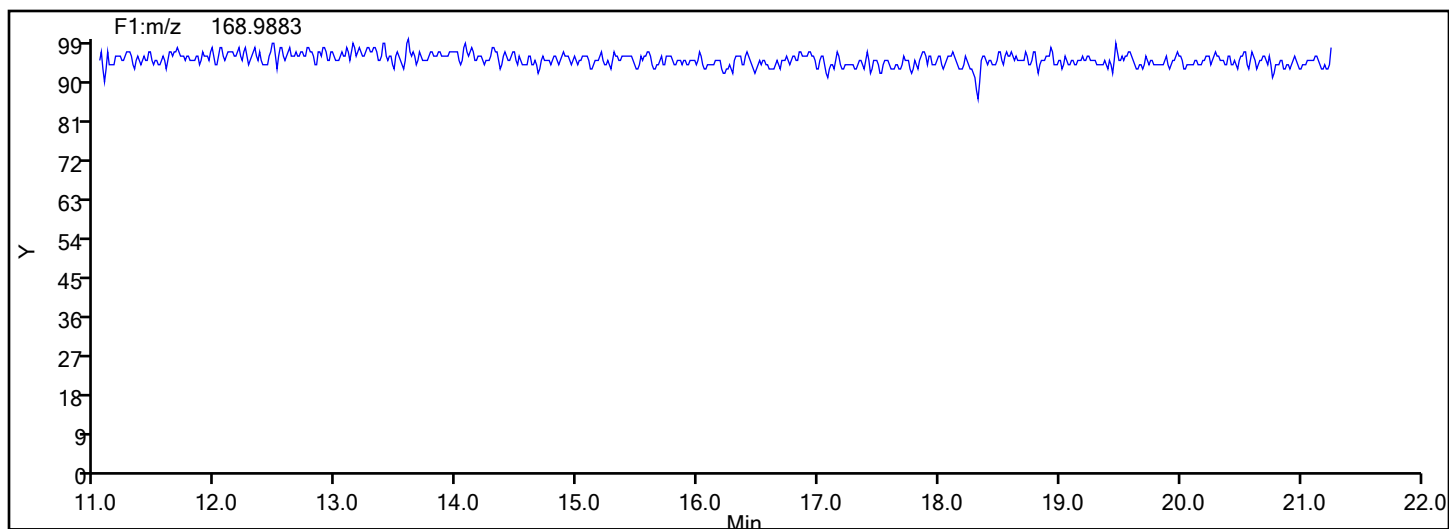
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

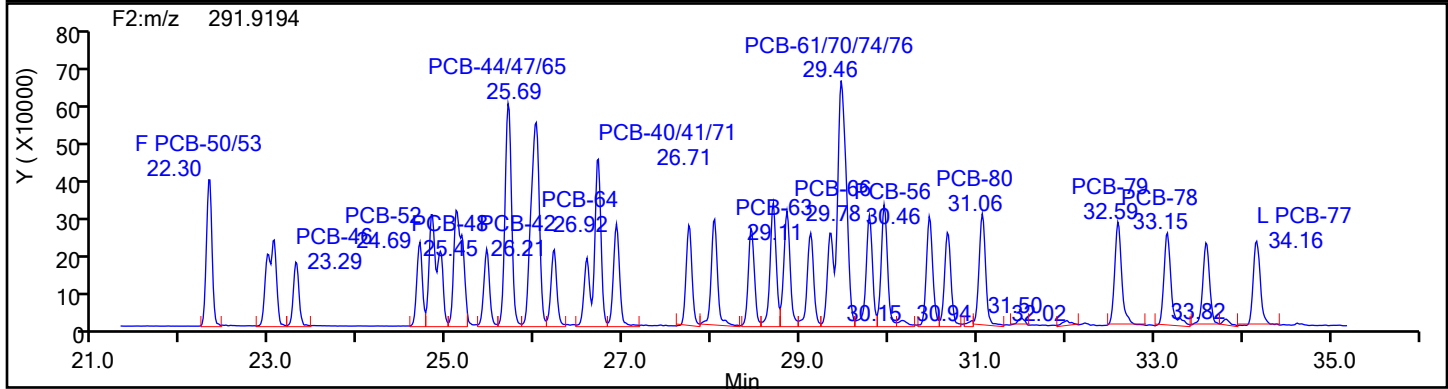
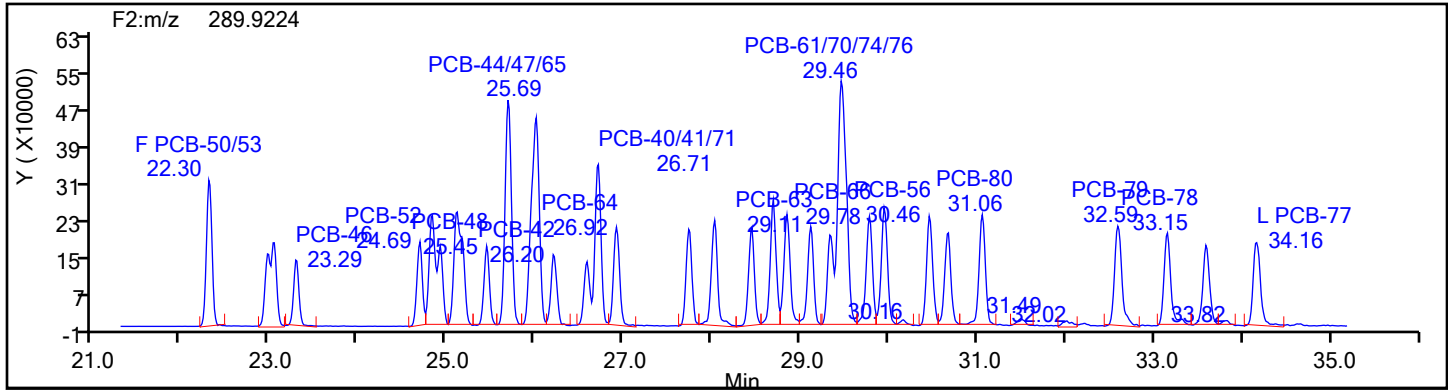
Worklist#: 88747

Sample Line#: 3

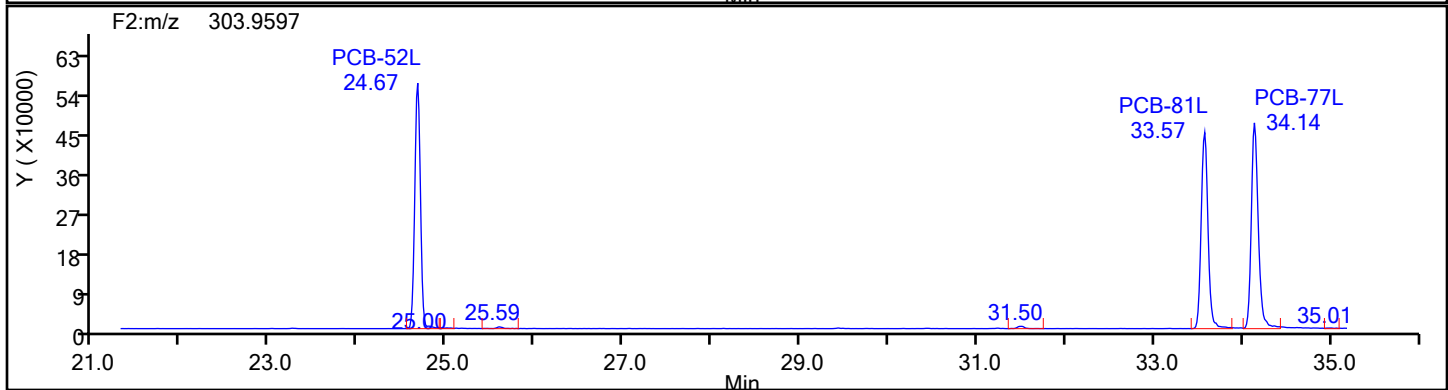
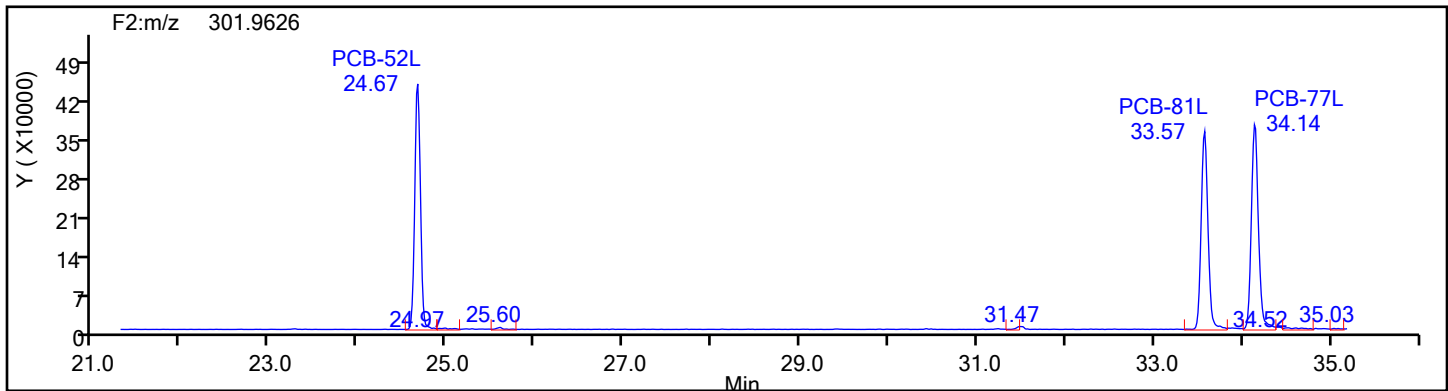
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

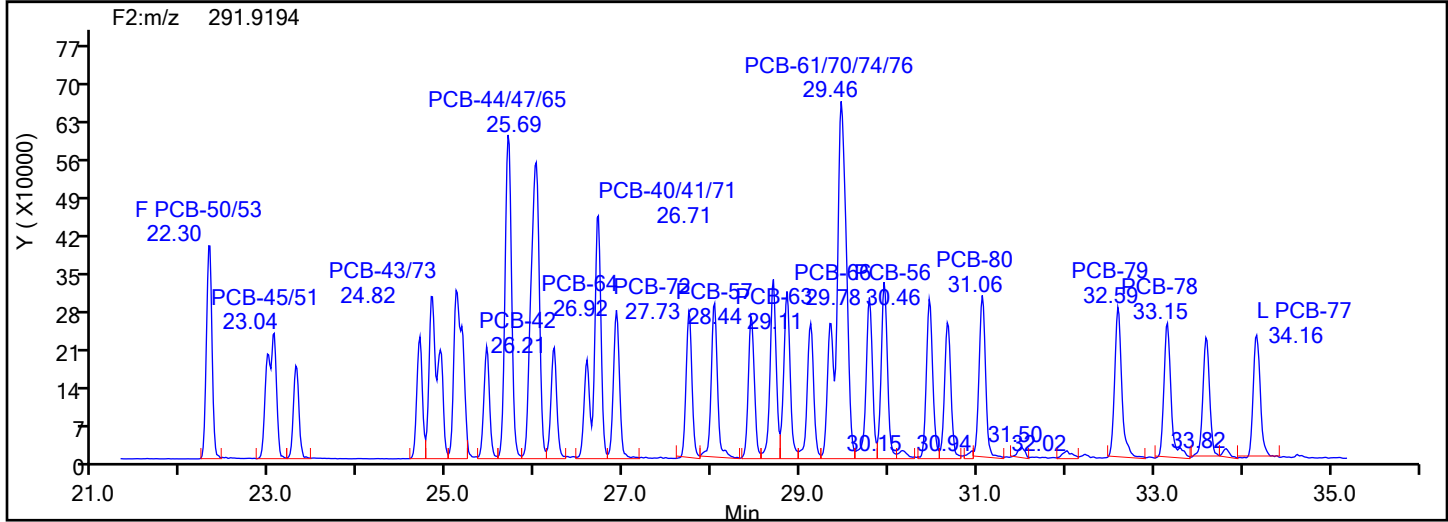
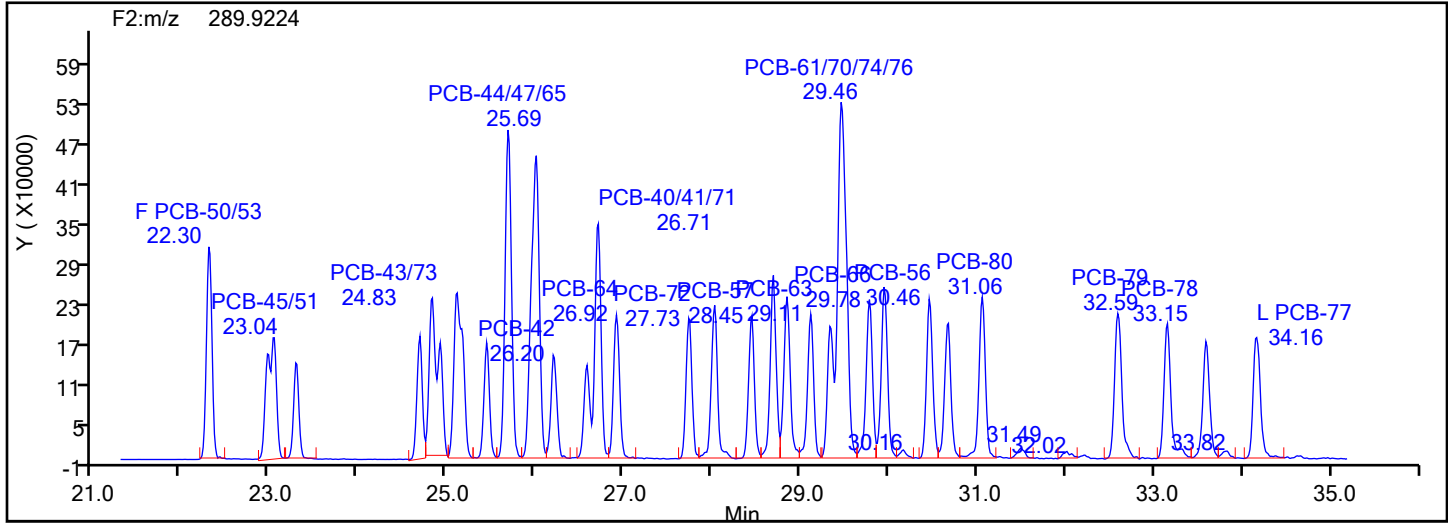
Worklist#: 88747

Sample Line#: 3

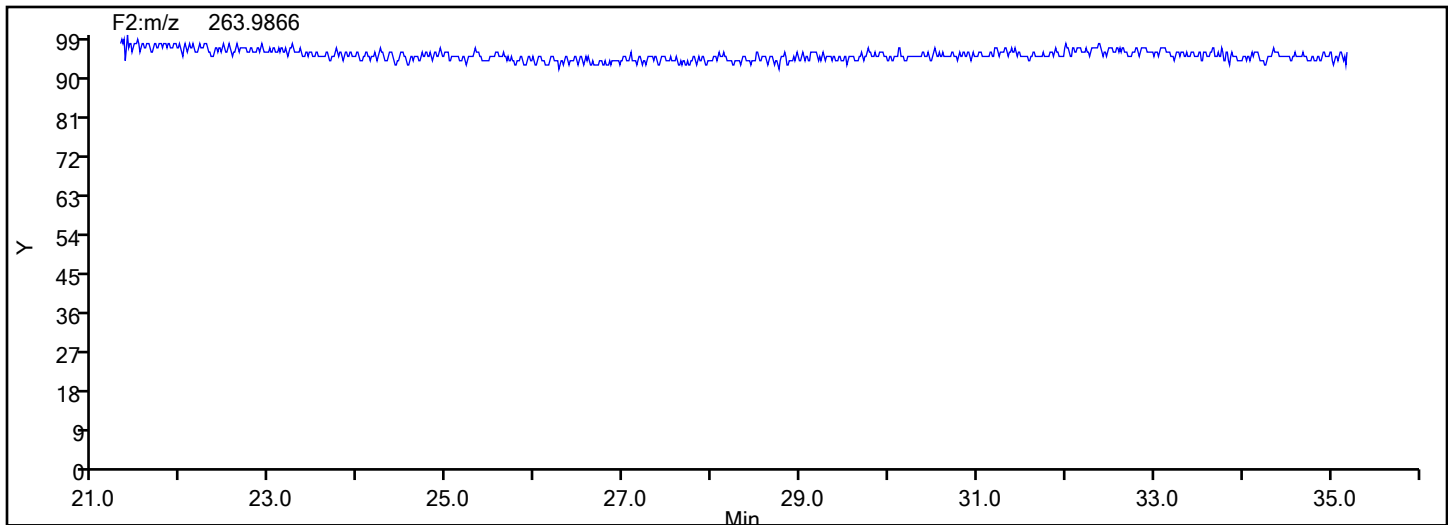
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

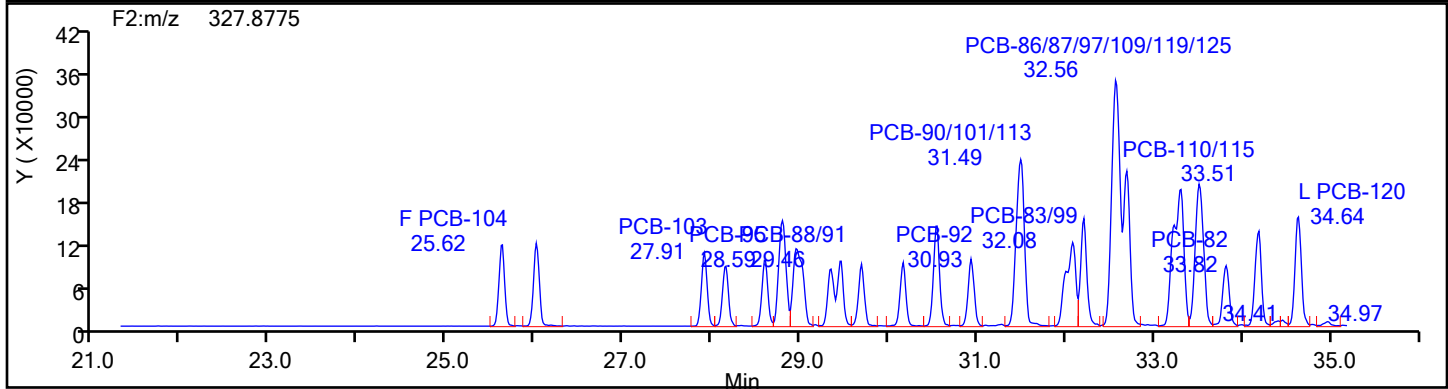
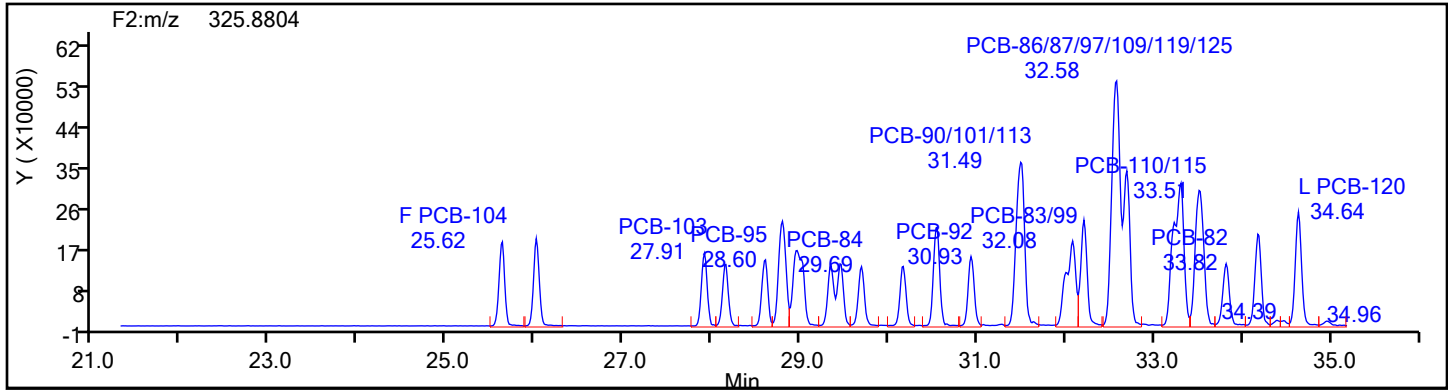
Worklist#: 88747

Sample Line#: 3

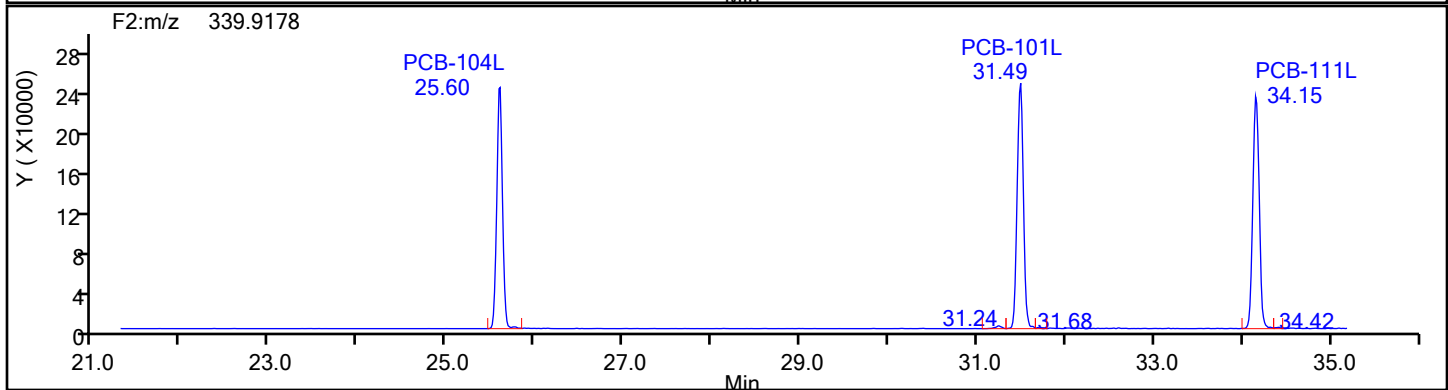
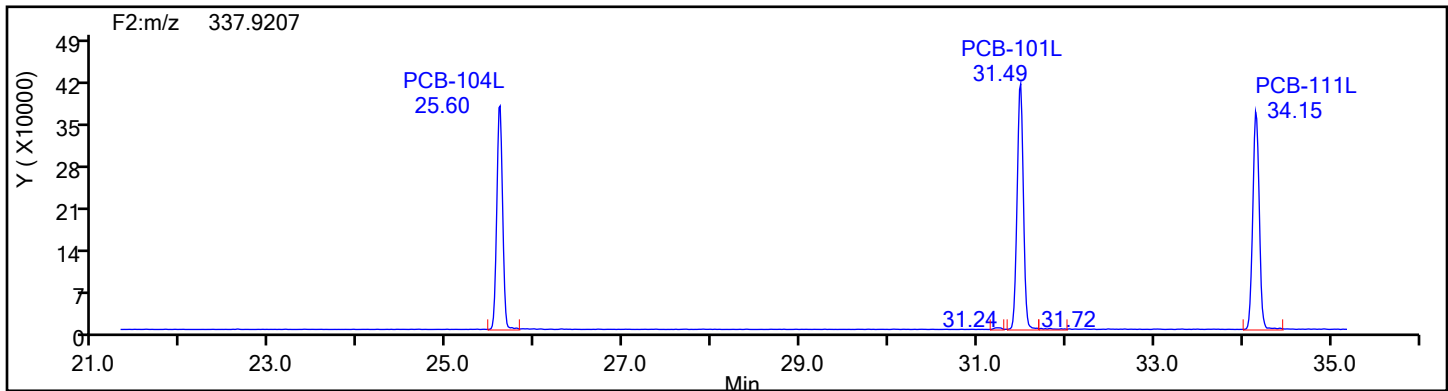
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

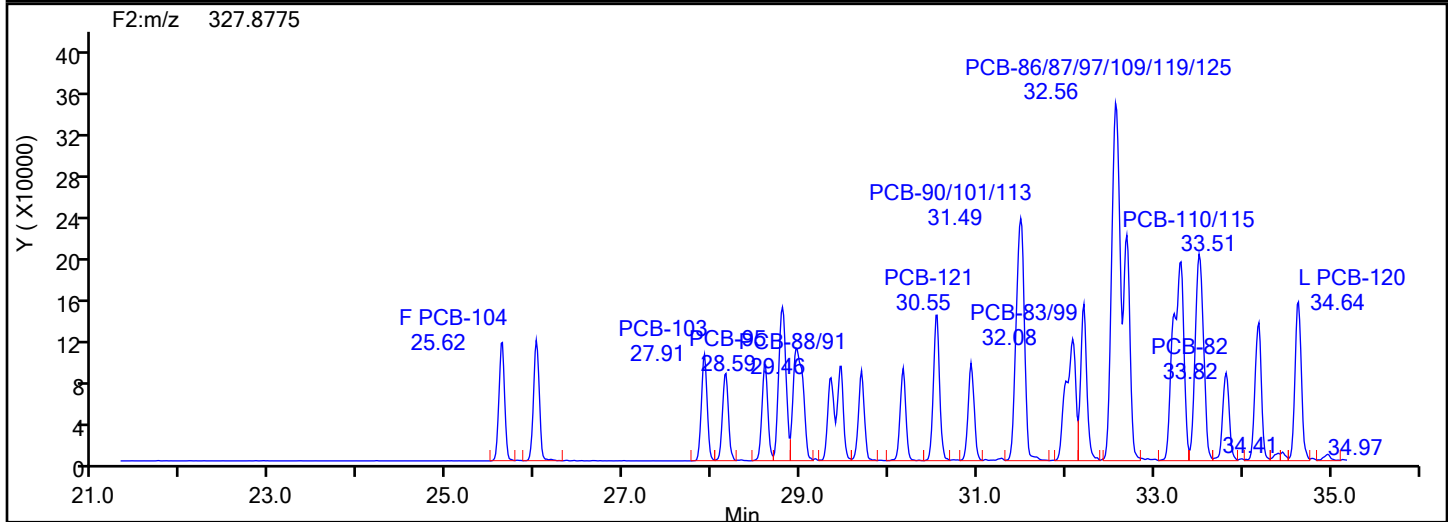
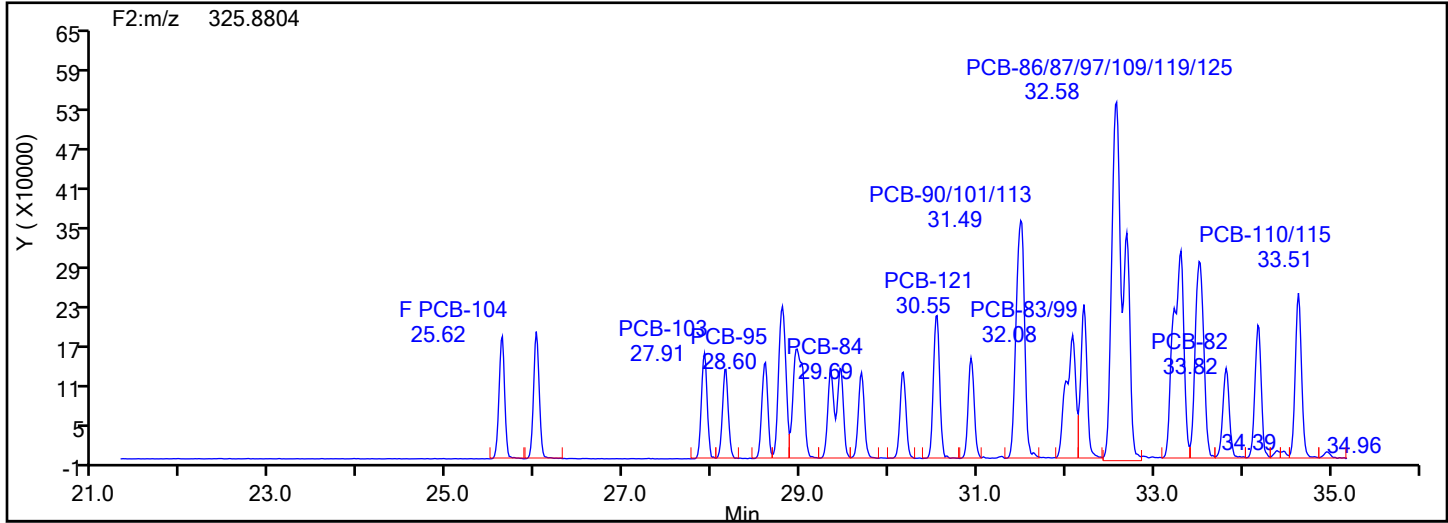
Worklist#: 88747

Sample Line#: 3

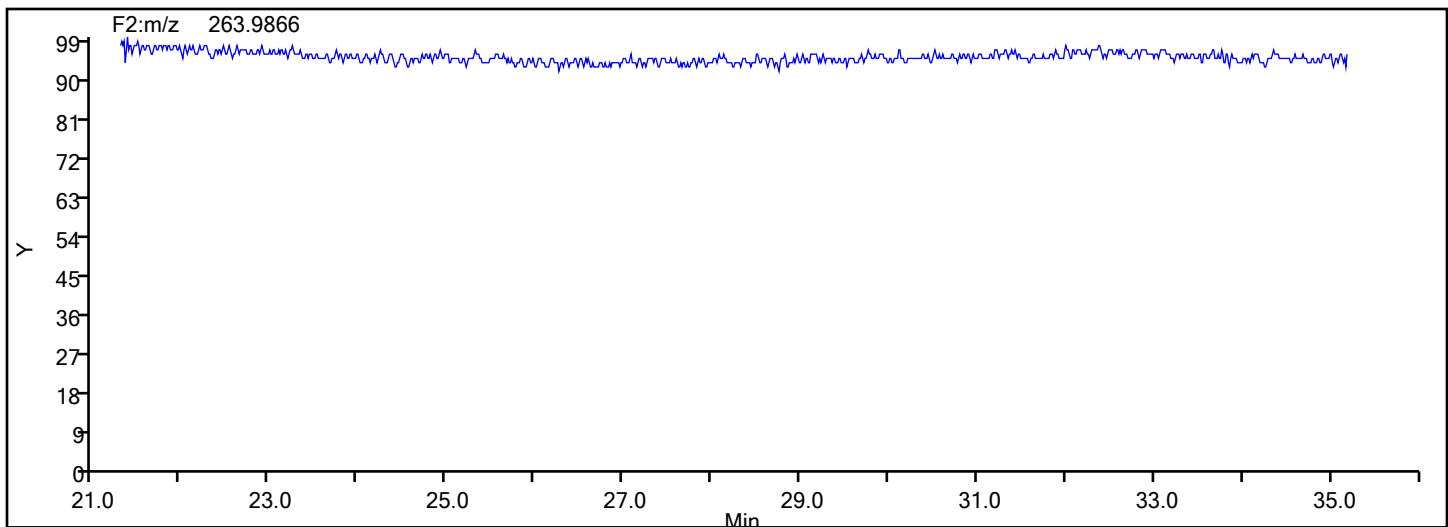
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

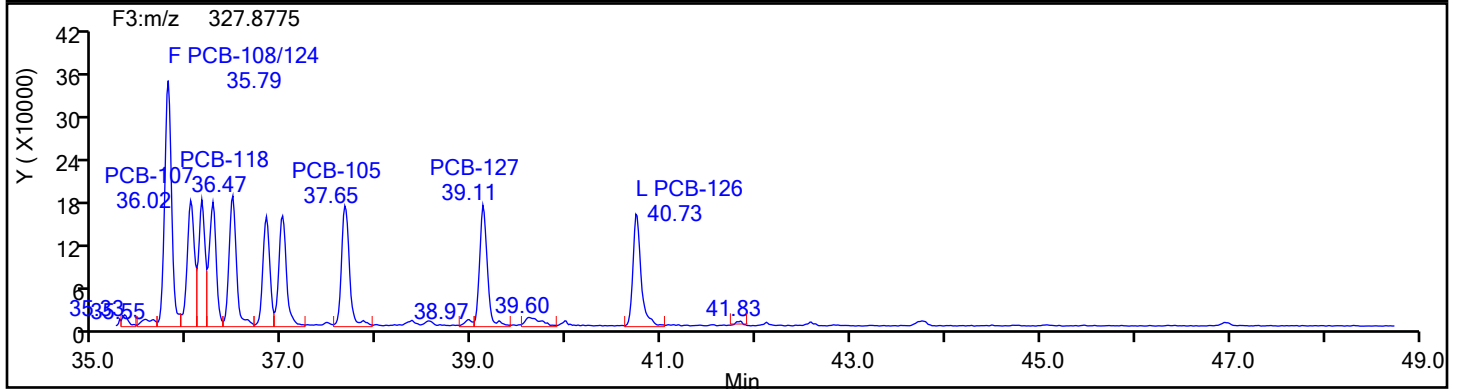
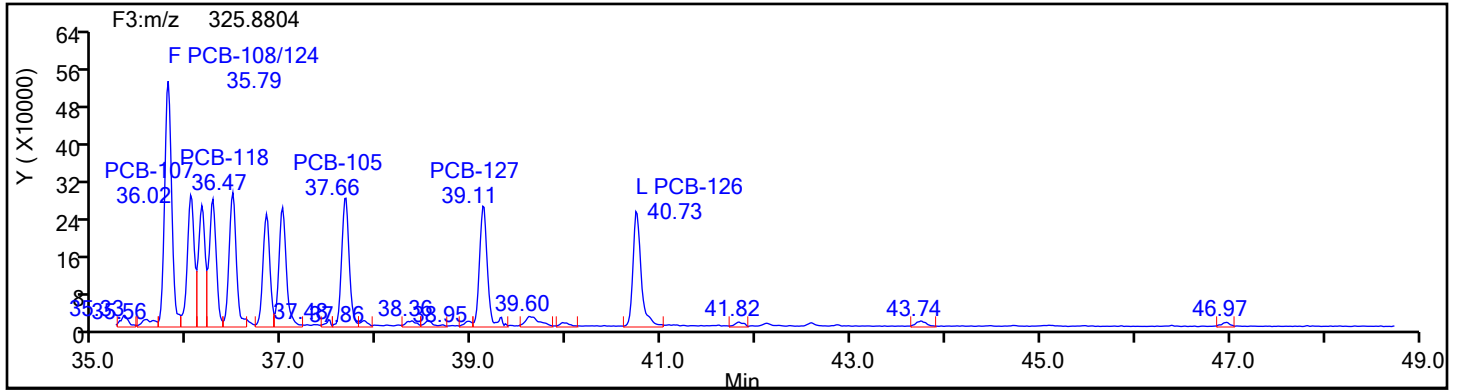
Worklist#: 88747

Sample Line#: 3

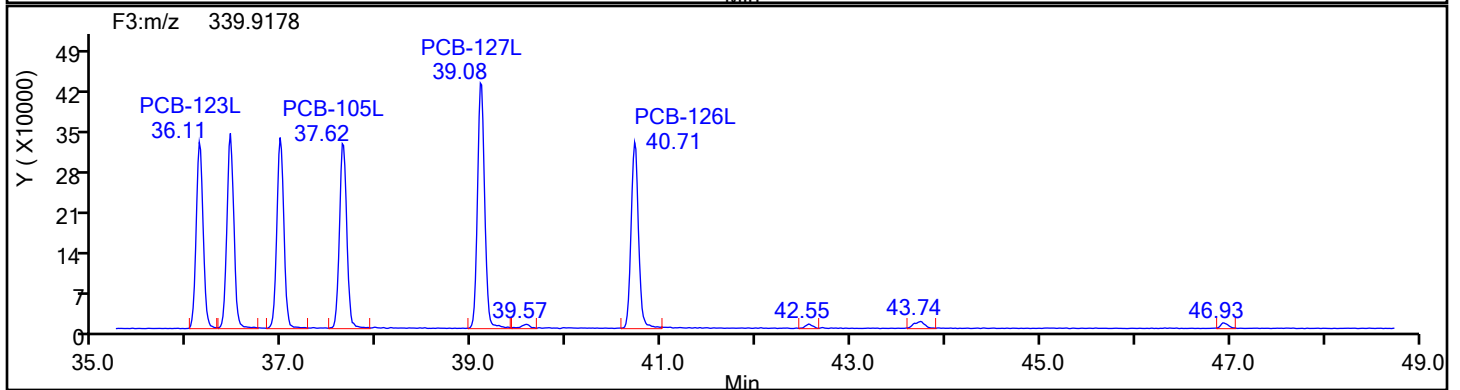
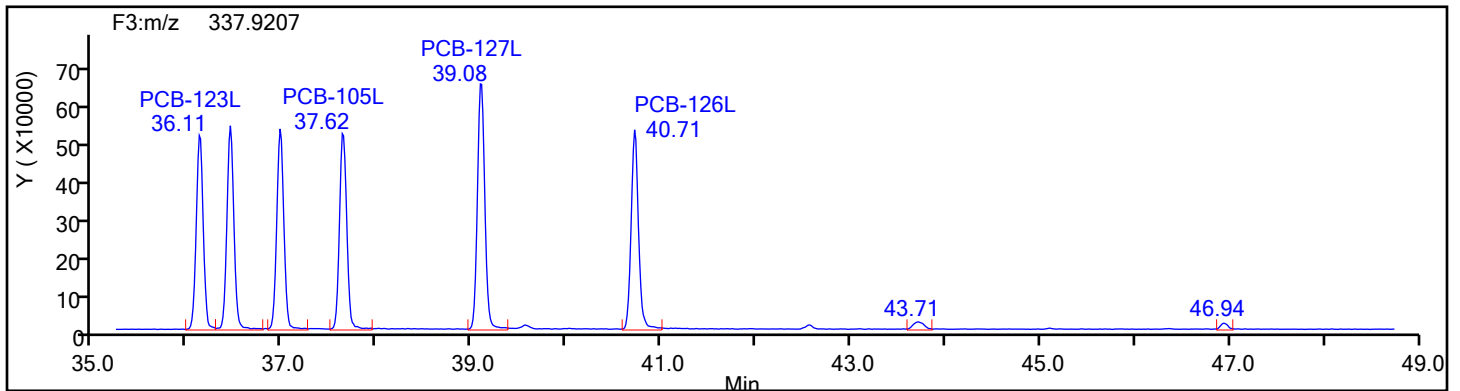
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

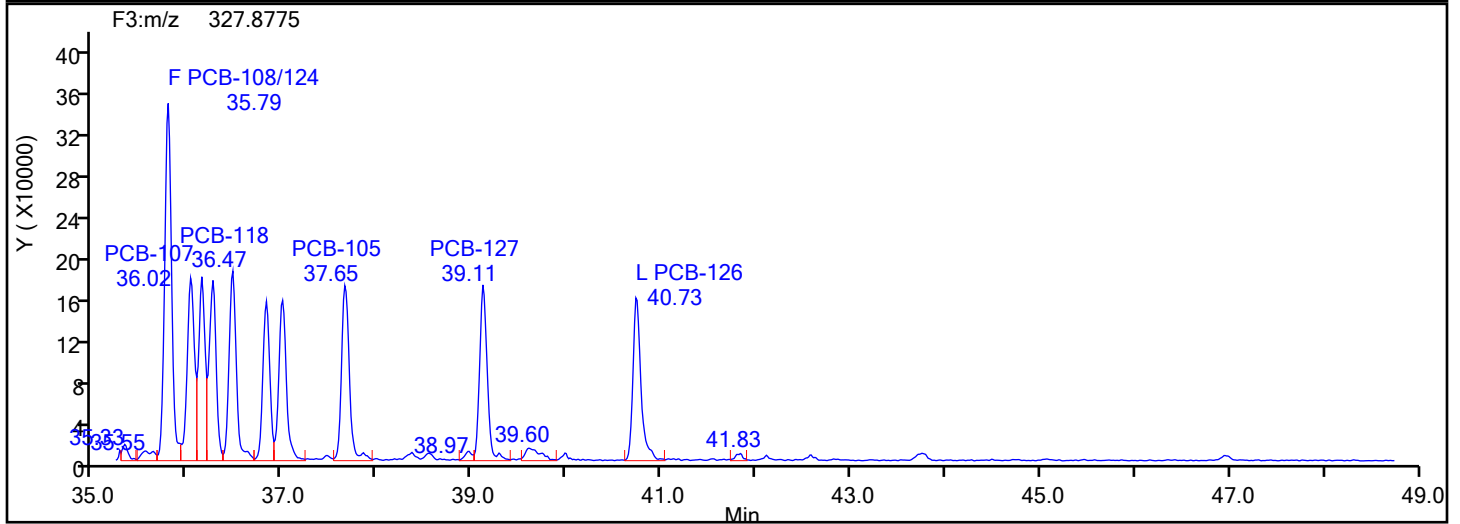
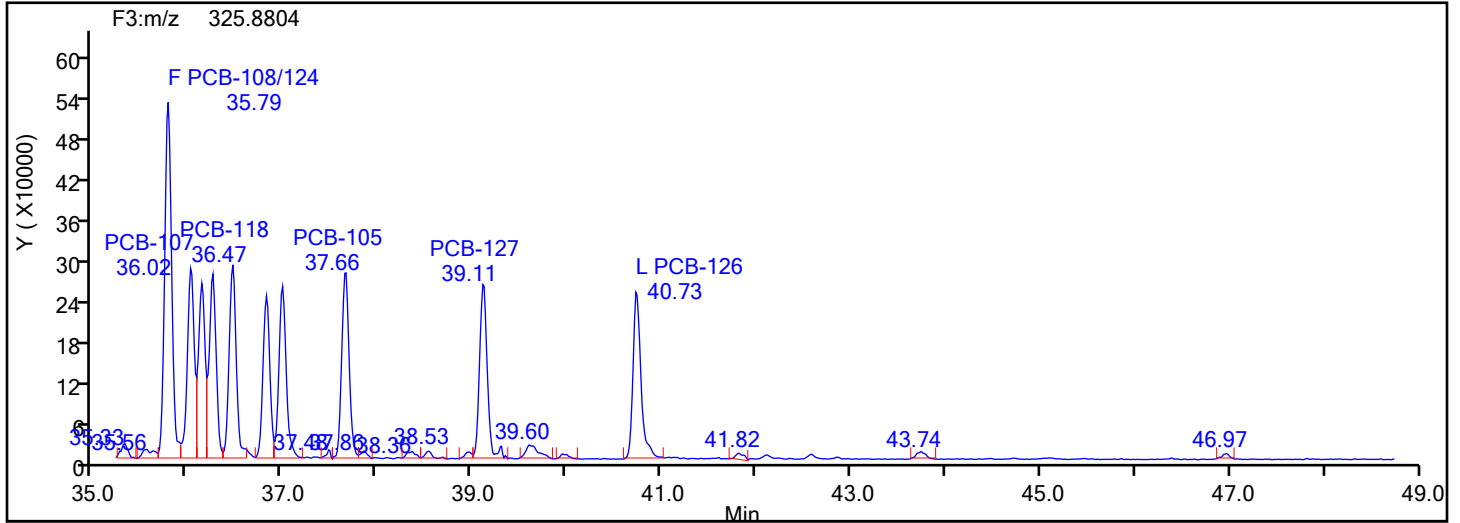
Worklist#: 88747

Sample Line#: 3

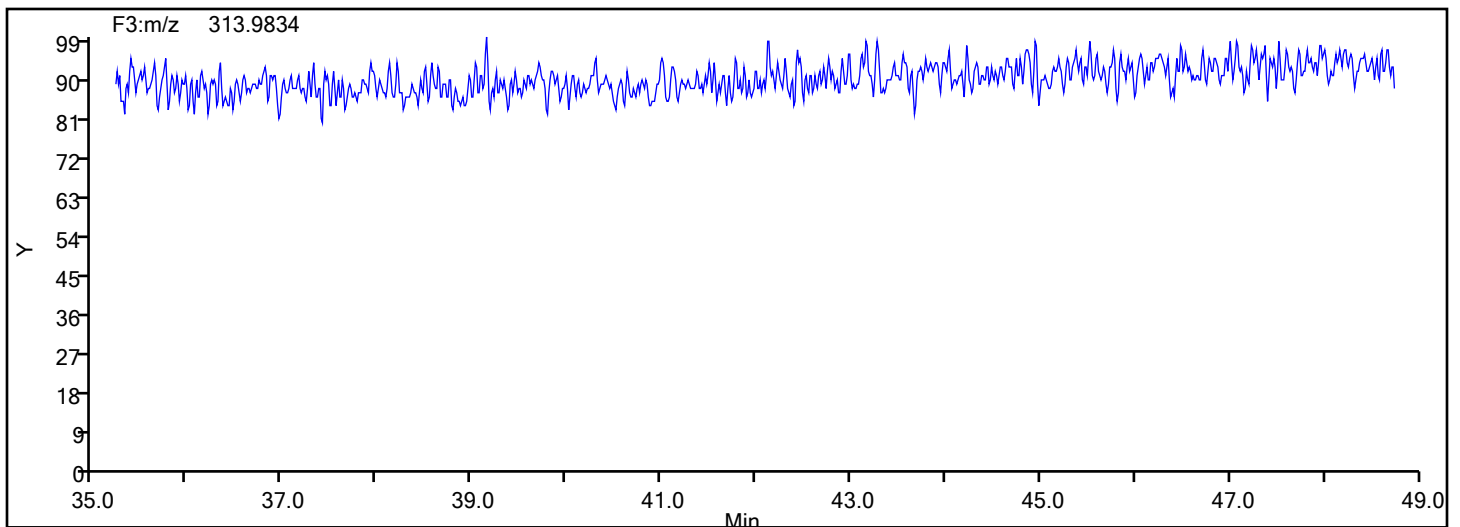
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

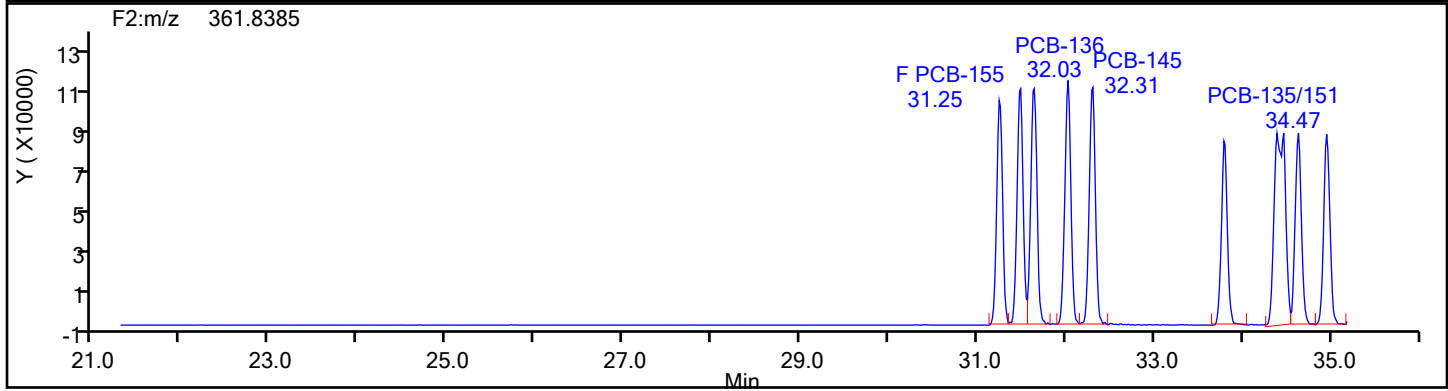
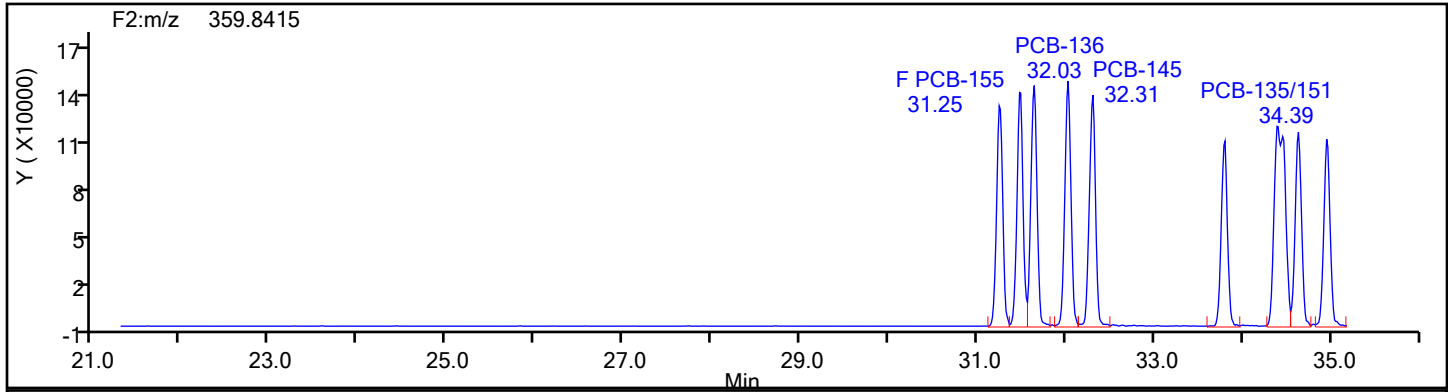
Worklist#: 88747

Sample Line#: 3

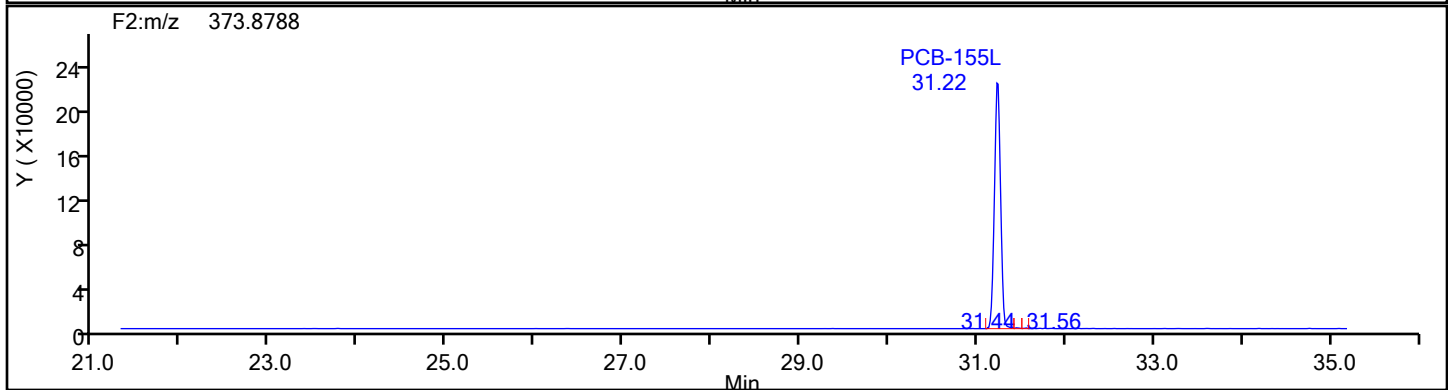
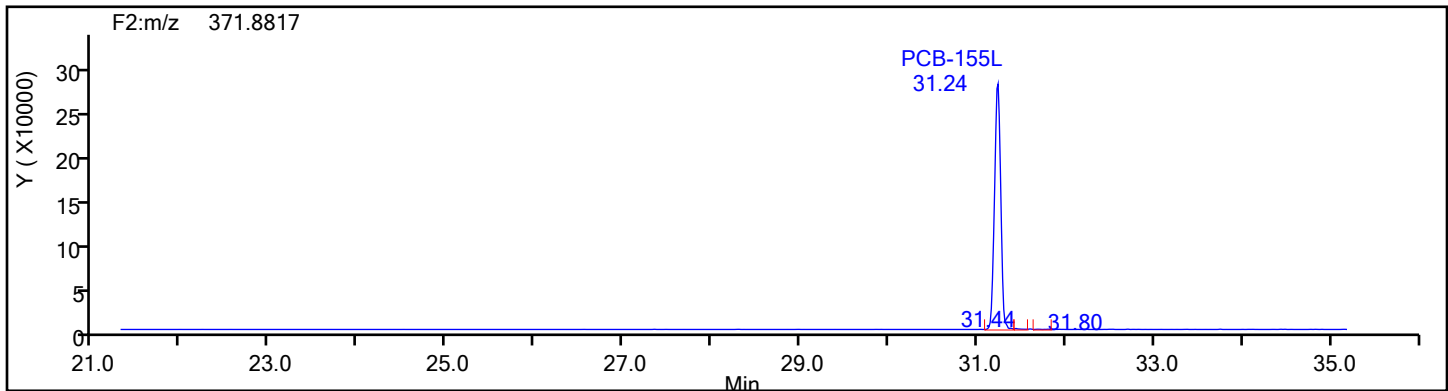
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

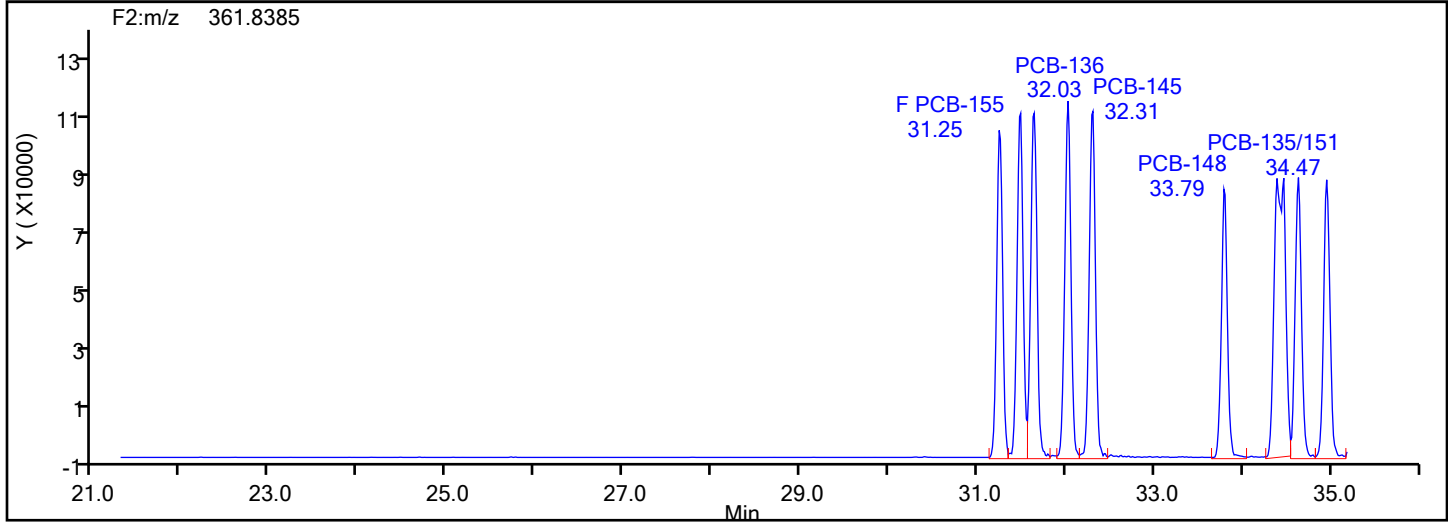
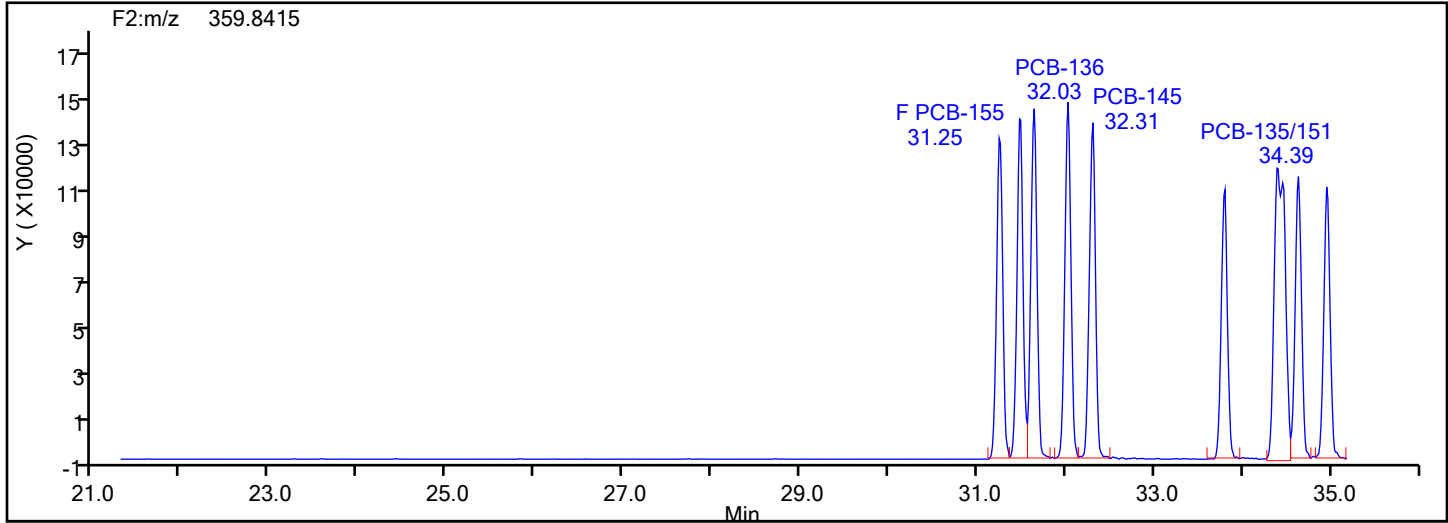


HxPCB F2 Standards

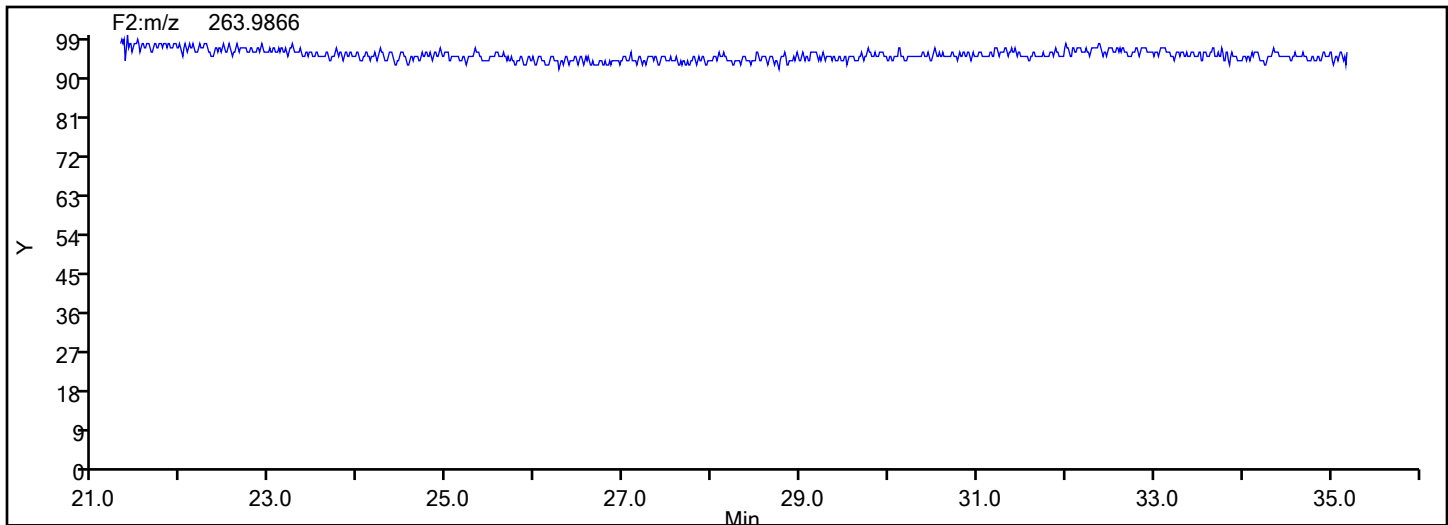


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
Injection Date: 15-Jul-2024 14:45:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
HxPCB F2



HxPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

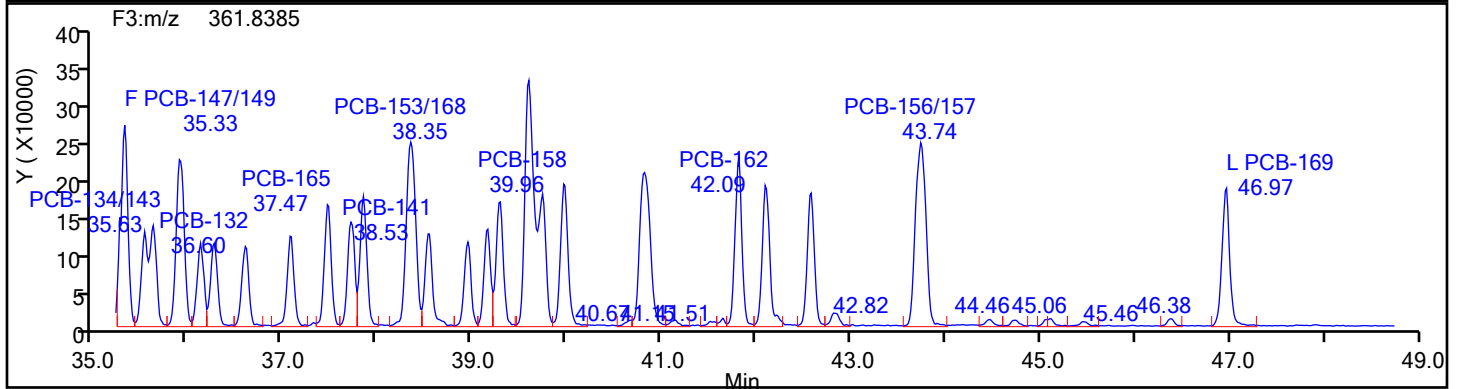
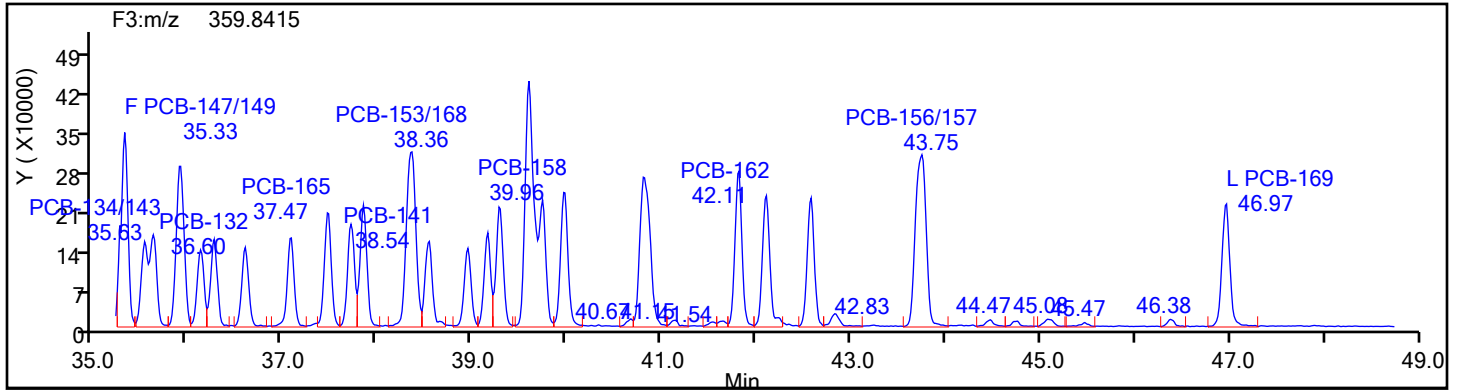
Worklist#: 88747

Sample Line#: 3

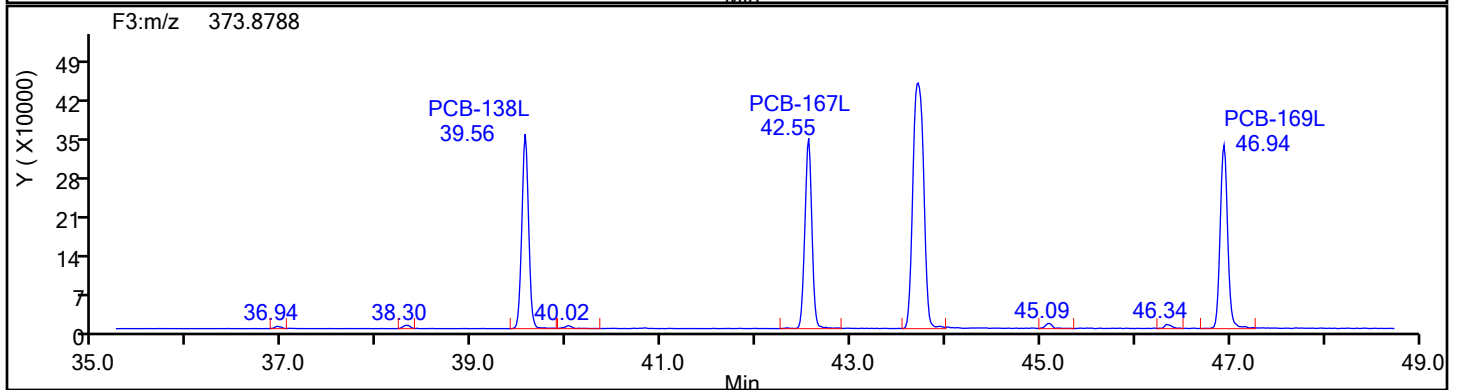
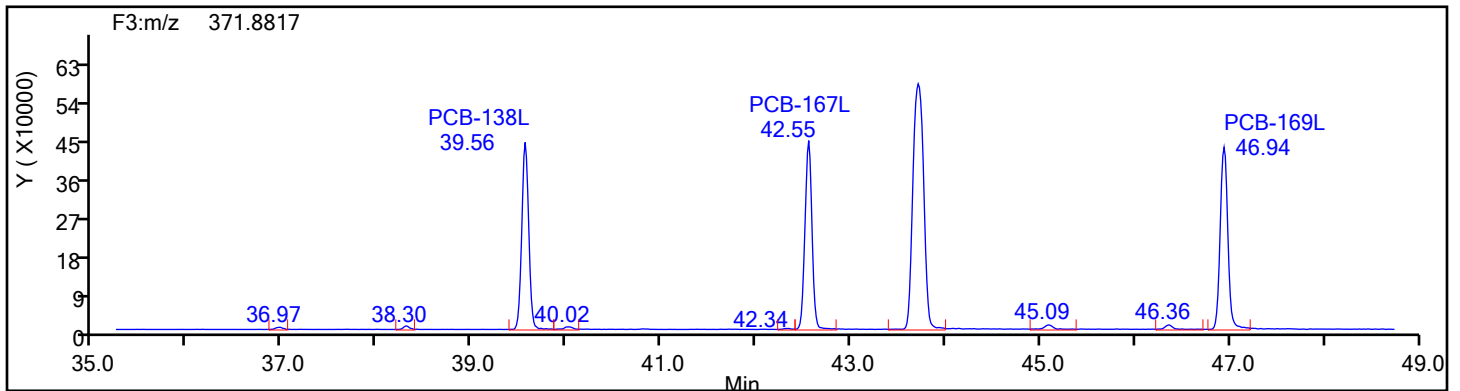
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

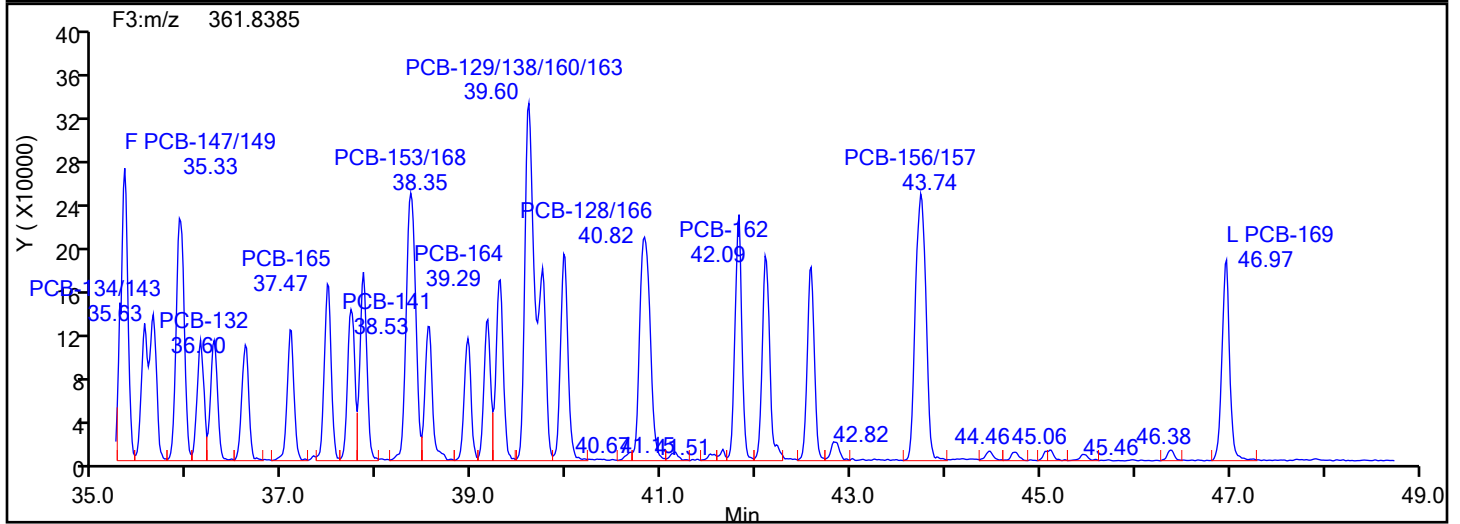
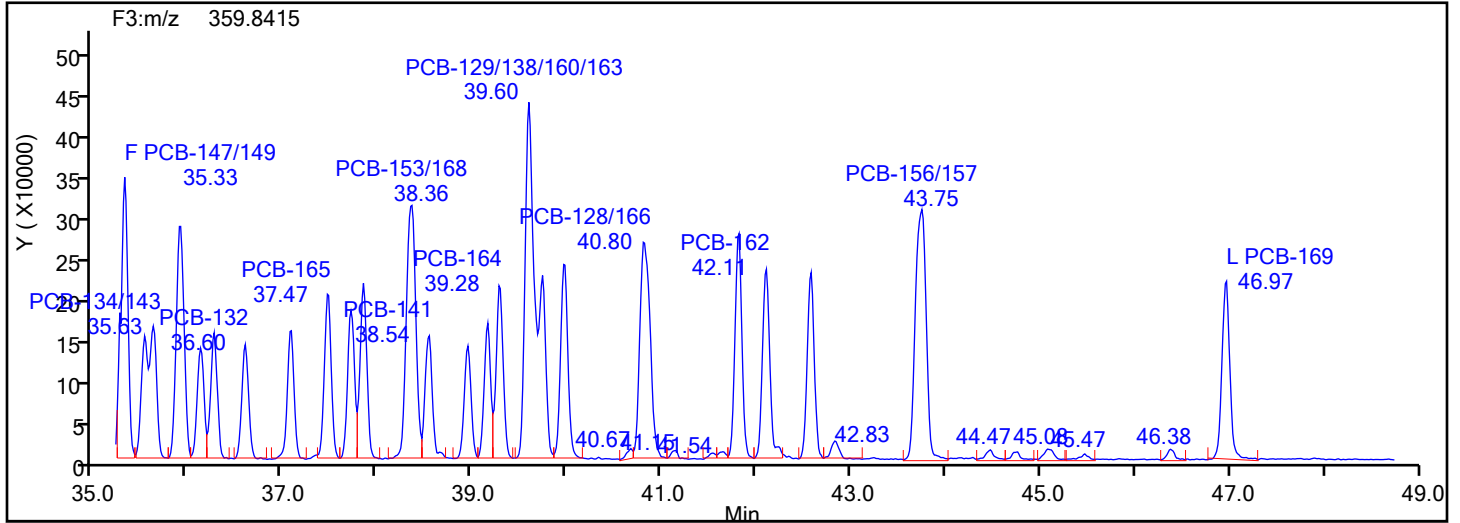
Worklist#: 88747

Sample Line#: 3

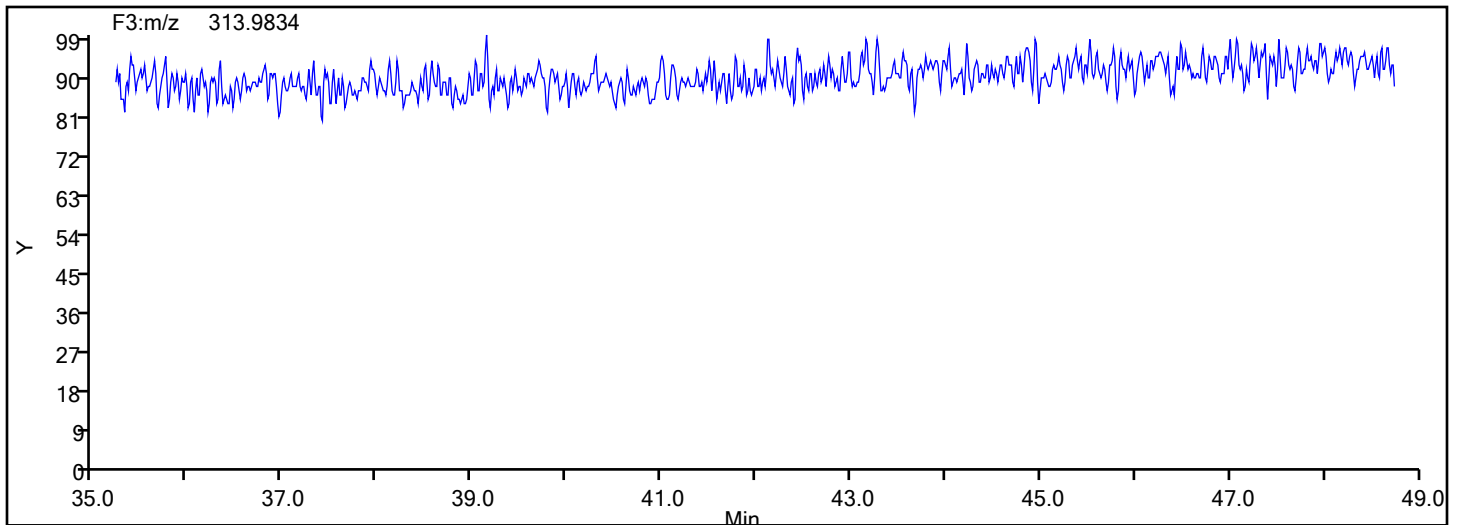
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Instrument ID: D2D

Lims ID: LCSD 140-88193/20-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

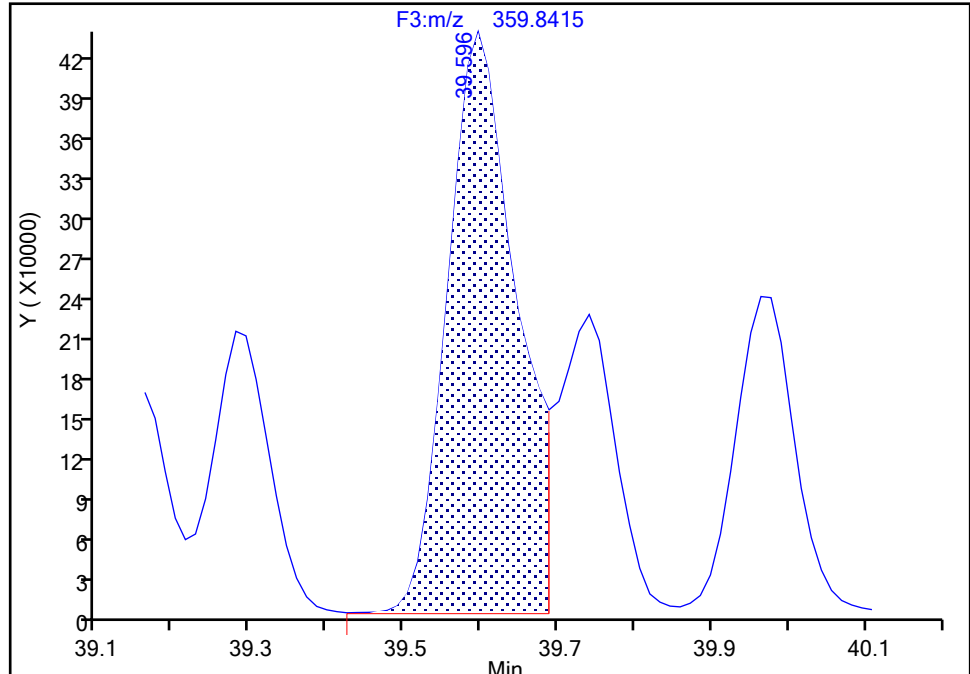
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 1

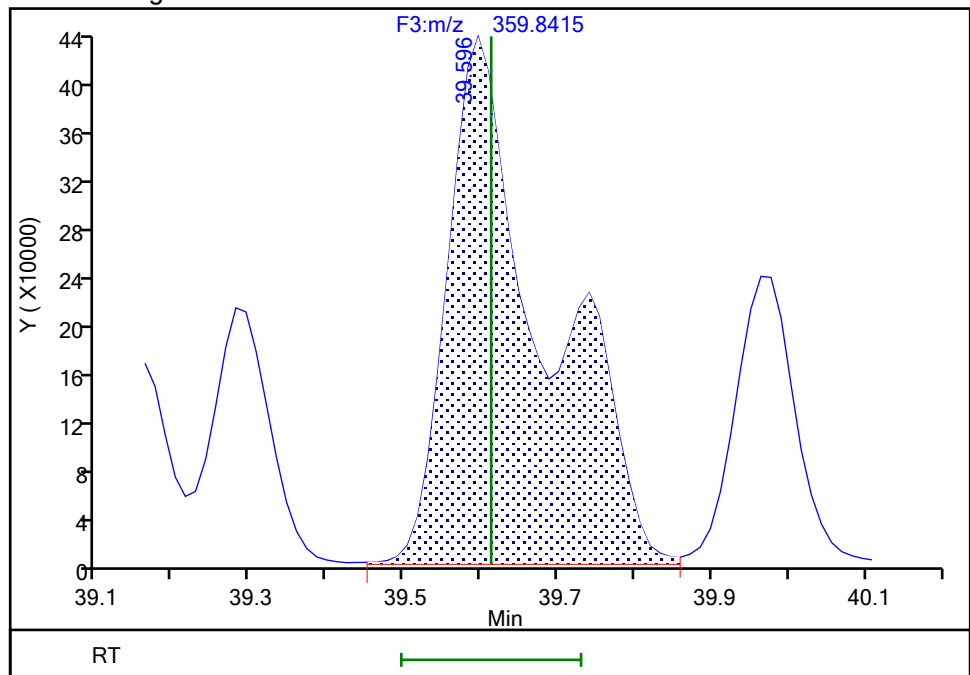
RT: 39.60
Area: 2689720
Amount: 122.4852
Amount Units: pg/ul

Processing Integration Results



RT: 39.60
Area: 3809848
Amount: 174.7251
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:47:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Instrument ID: D2D

Lims ID: LCSD 140-88193/20-B

Client ID:

Operator ID: Xcalibur_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs_D2D

Limit Group:

HR - EPA_23 PCB ICAL

Column: SPB-Octyl (0.25 mm)

Detector

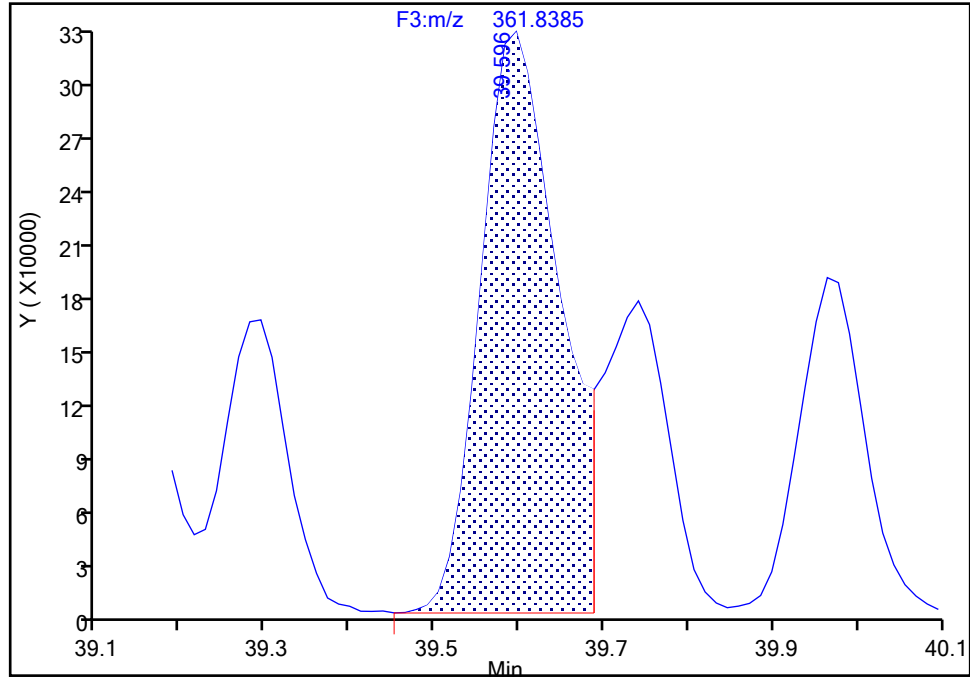
F3(35.64 :49.10)

PCB-129/138/160/163, CAS: STL02296

Signal: 2

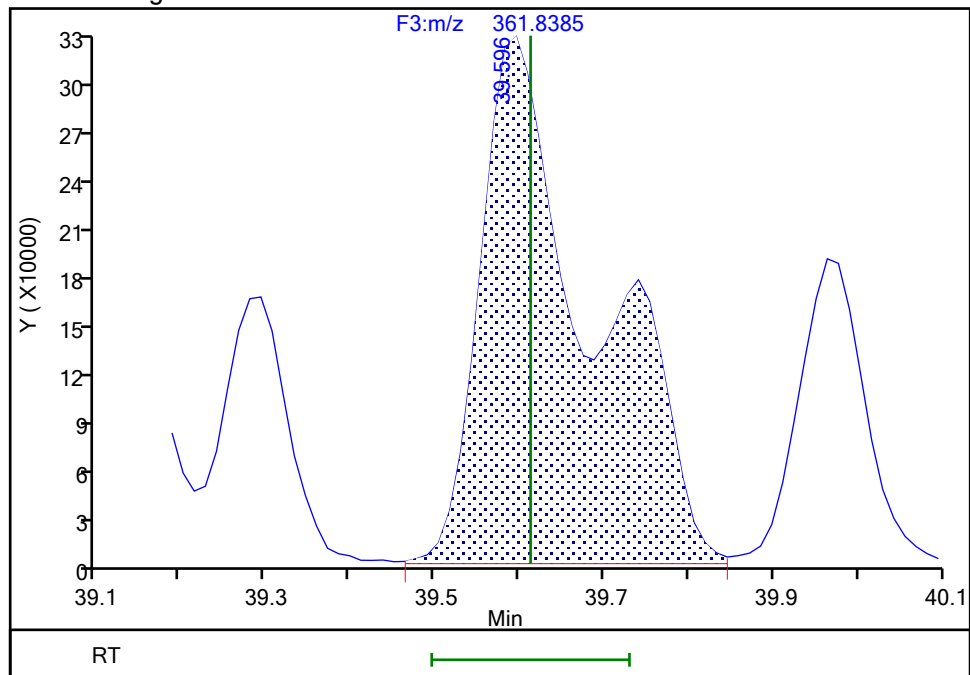
RT: 39.60
Area: 2101216
Amount: 122.4852
Amount Units: pg/ul

Processing Integration Results



RT: 39.60
Area: 3024419
Amount: 174.7251
Amount Units: pg/ul

Manual Integration Results



Reviewer: V4XA, 15-Jul-2024 19:47:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 3014 of 3050

BASFWHC-McIntosh-011015

9/6/2024

4:11:20 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

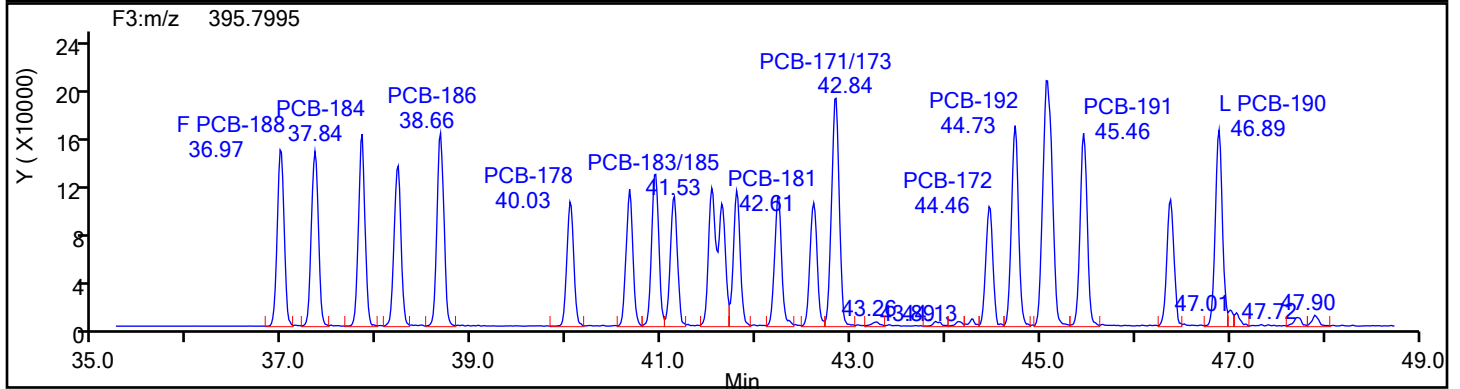
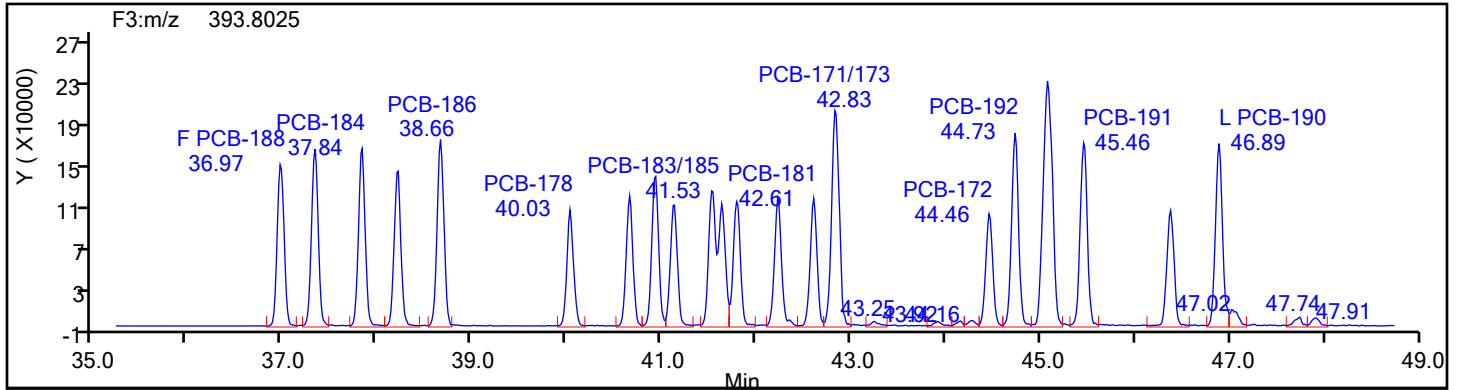
Worklist#: 88747

Sample Line#: 3

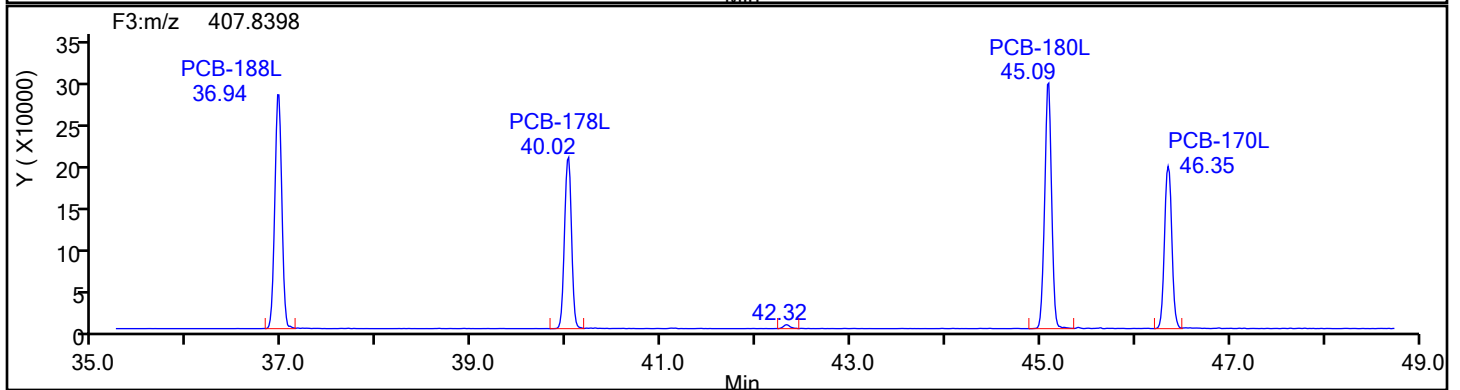
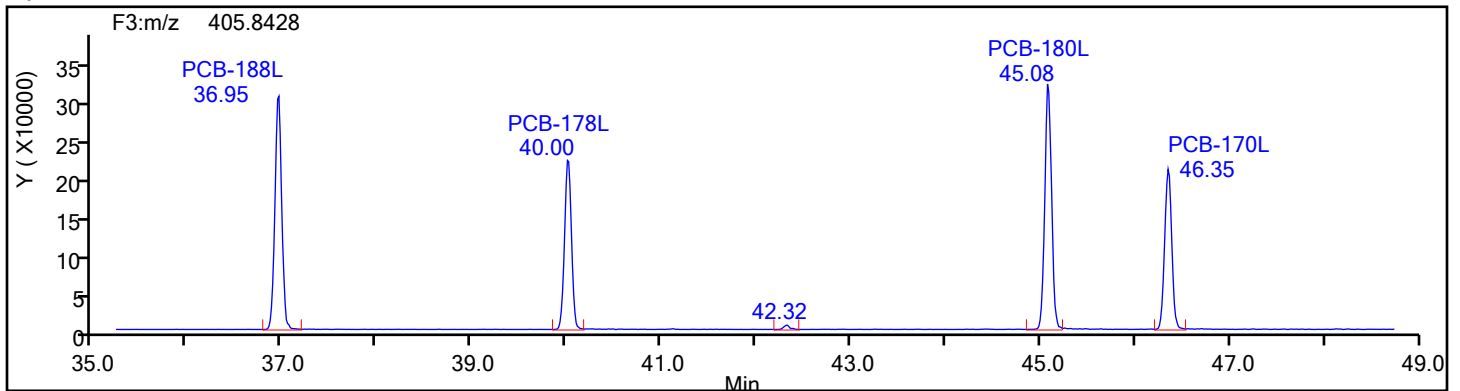
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

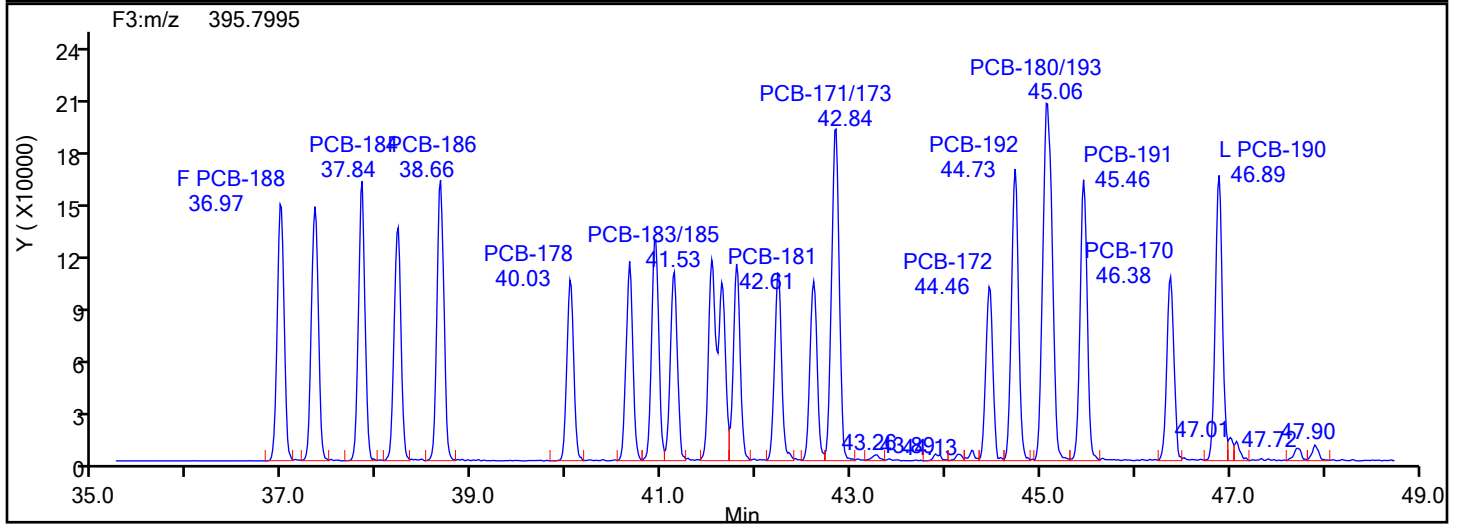
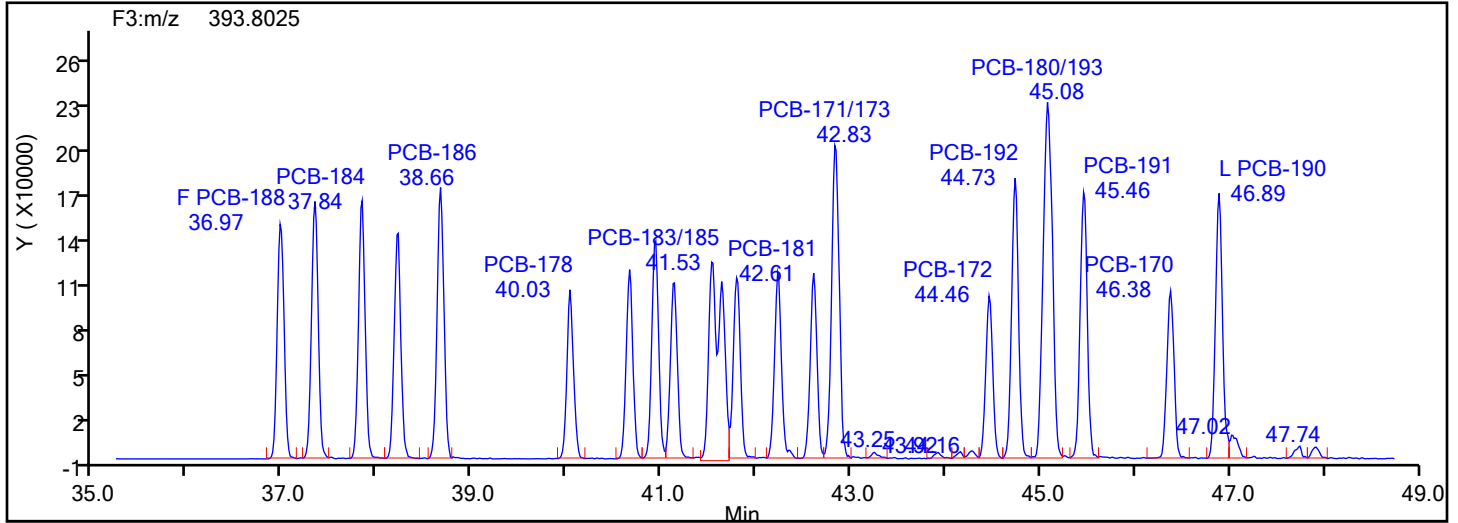


HpPCB F3 Standards

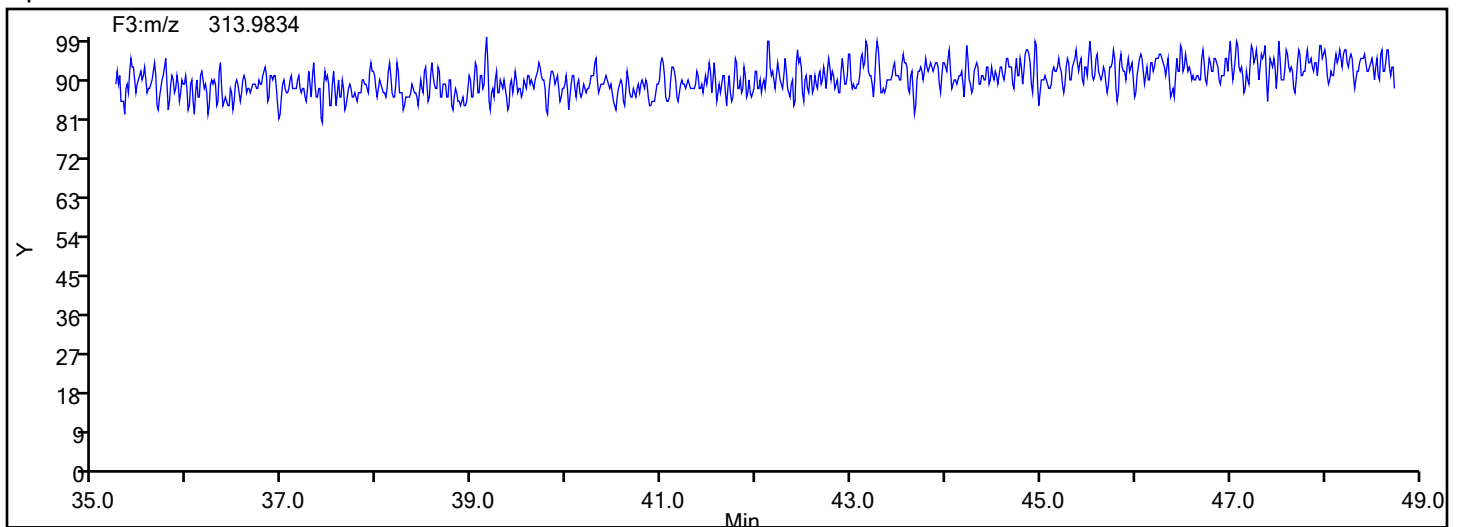


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
Injection Date: 15-Jul-2024 14:45:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
HpPCB F3



HpPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

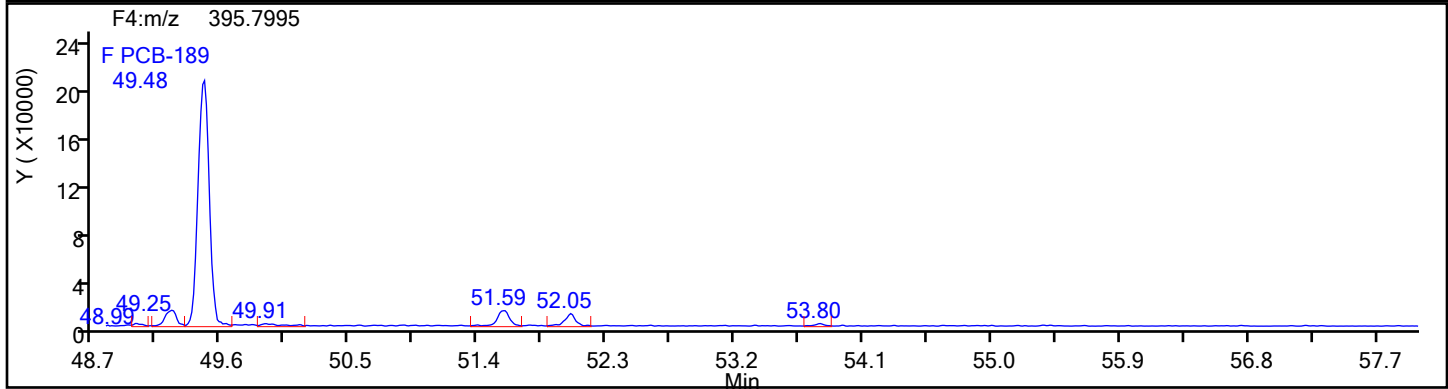
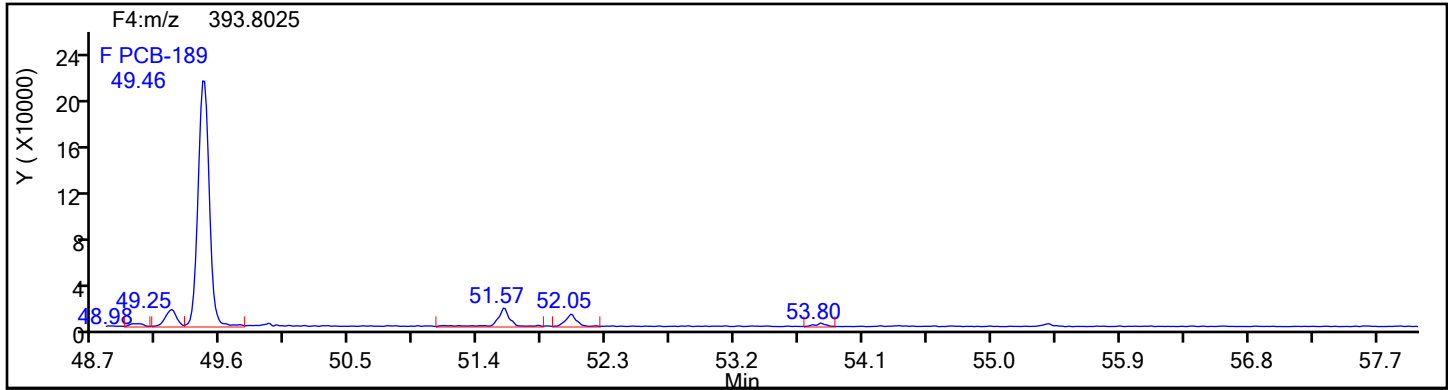
Worklist#: 88747

Sample Line#: 3

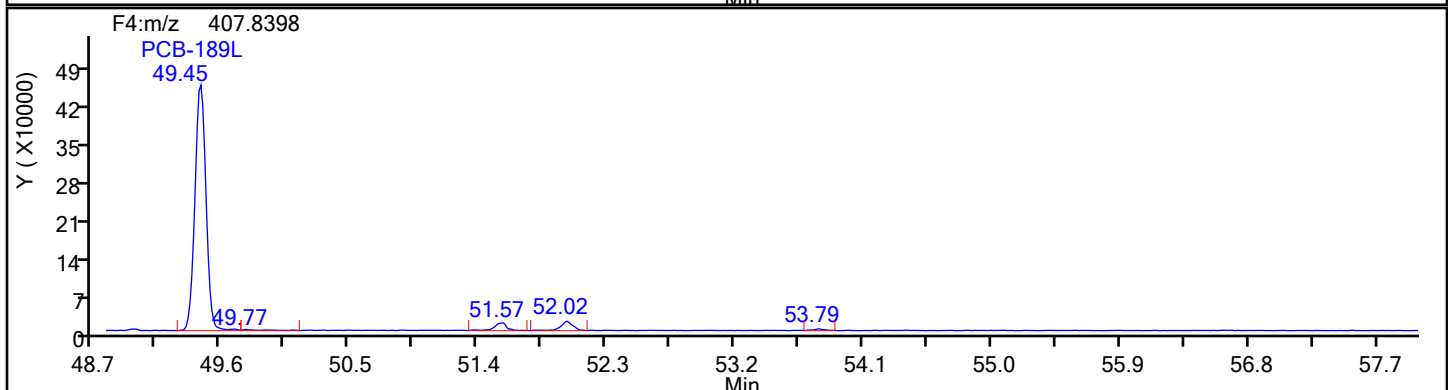
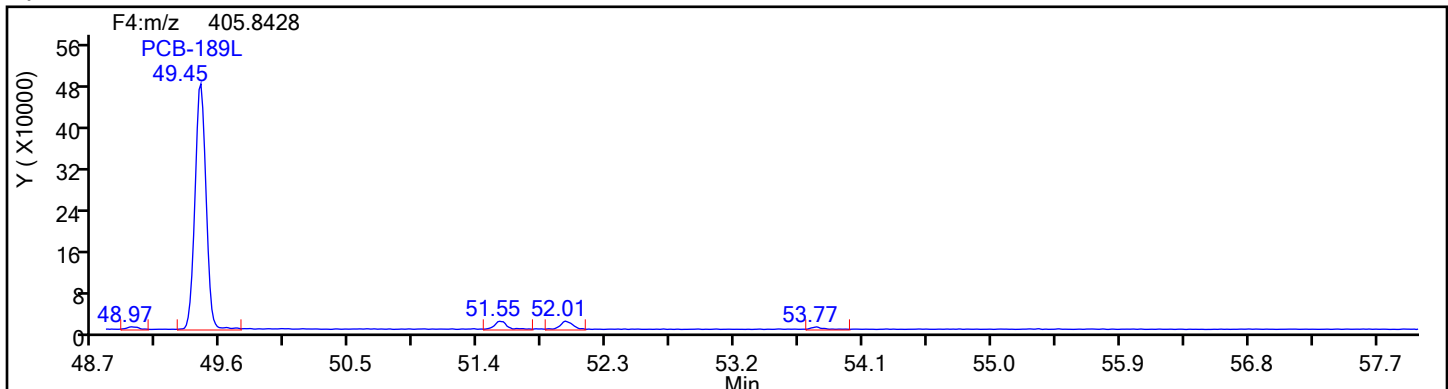
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

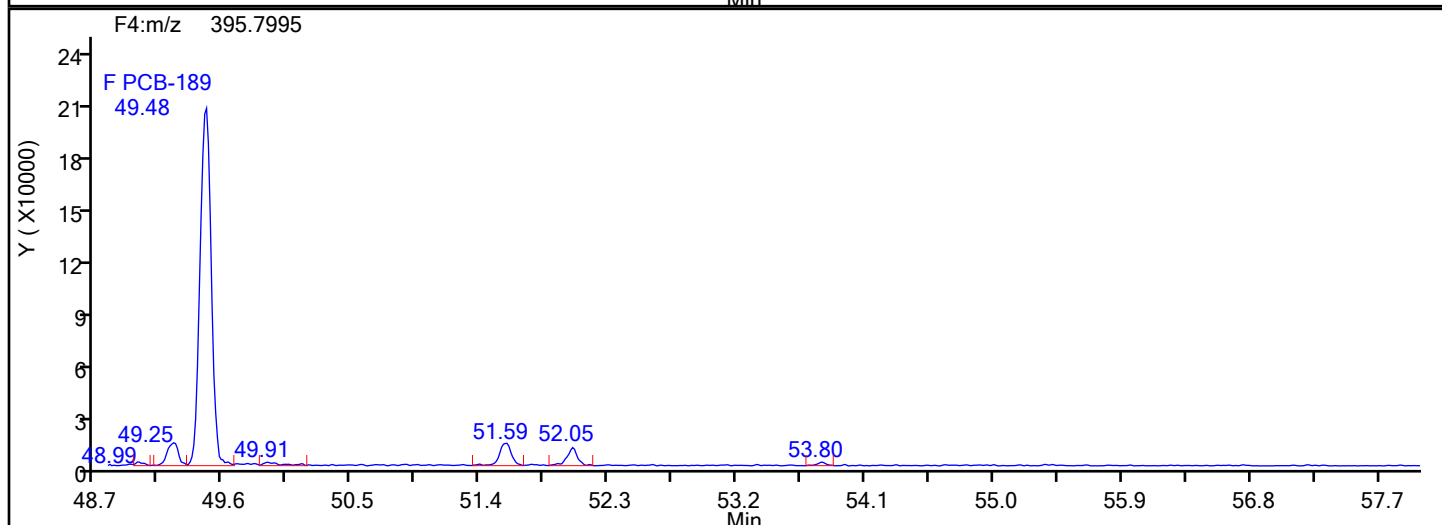
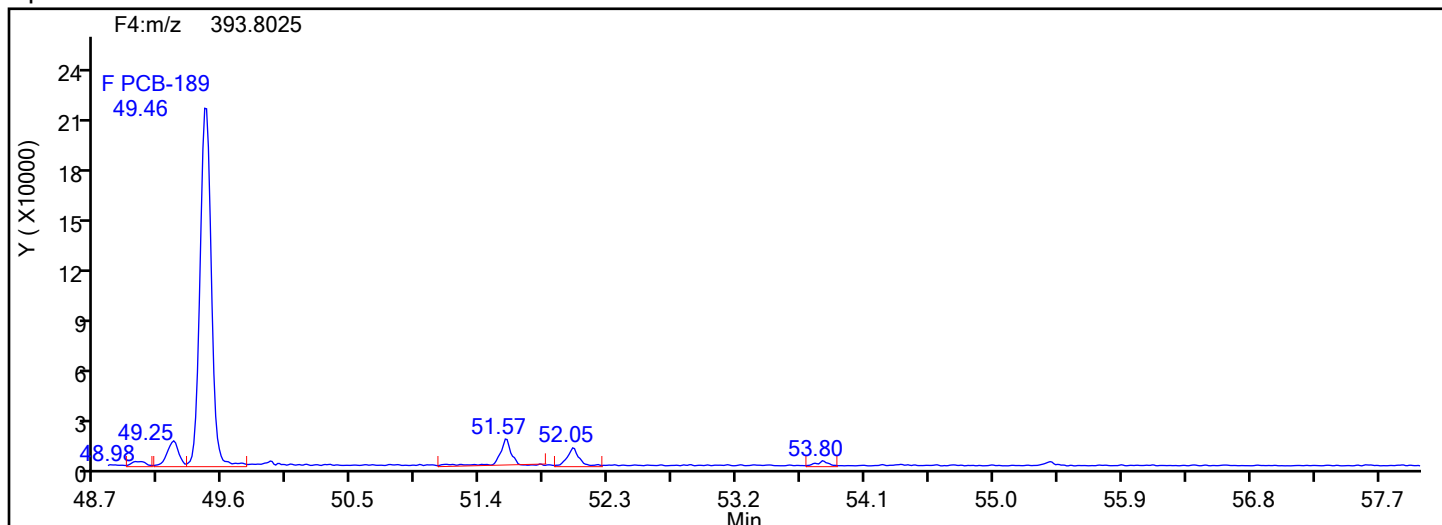
Worklist#: 88747

Sample Line#: 3

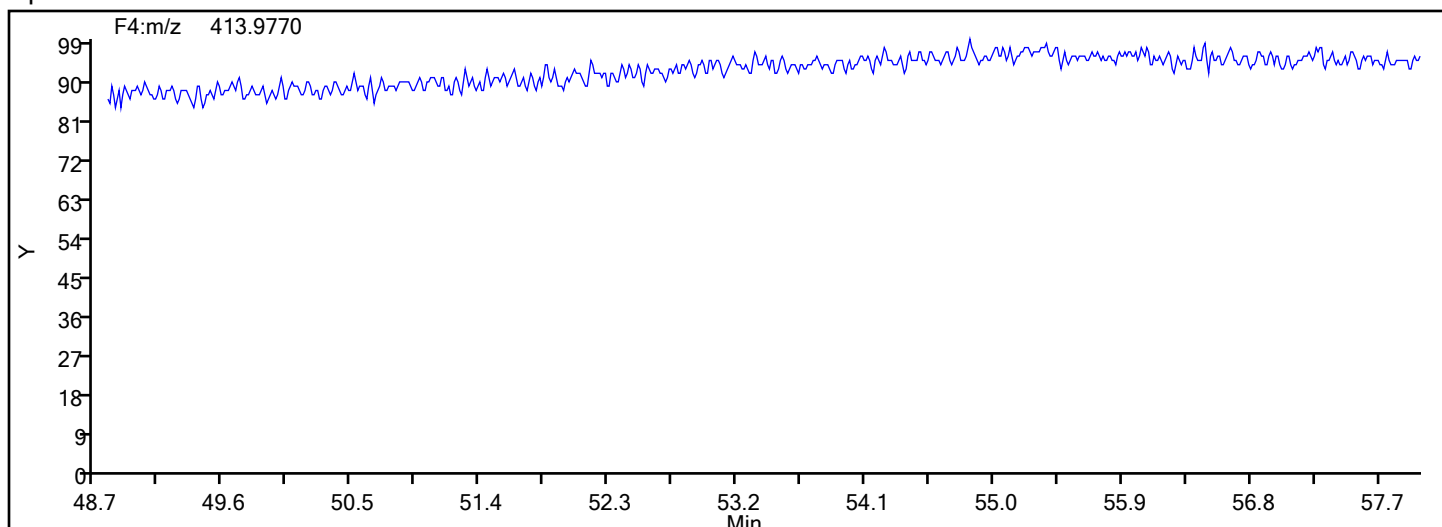
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

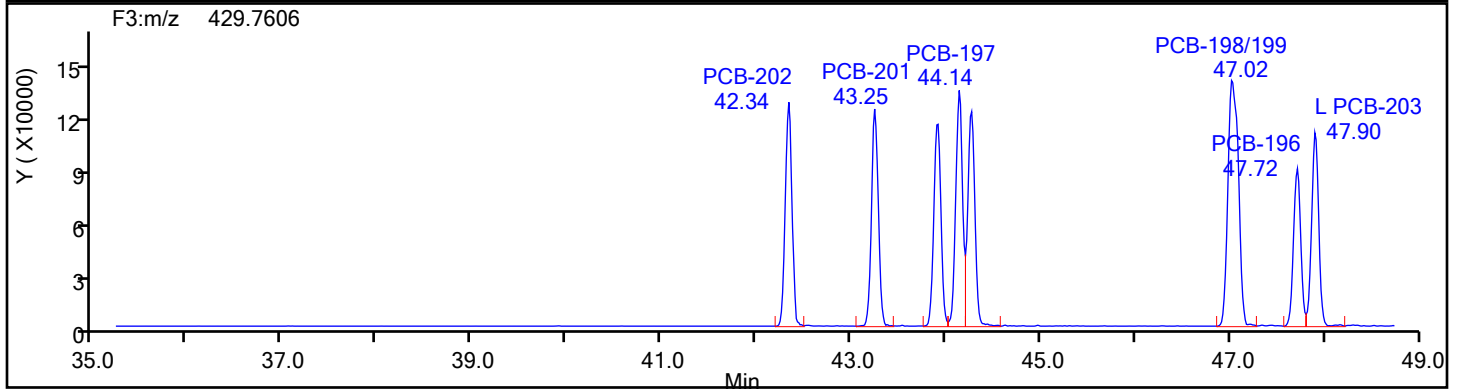
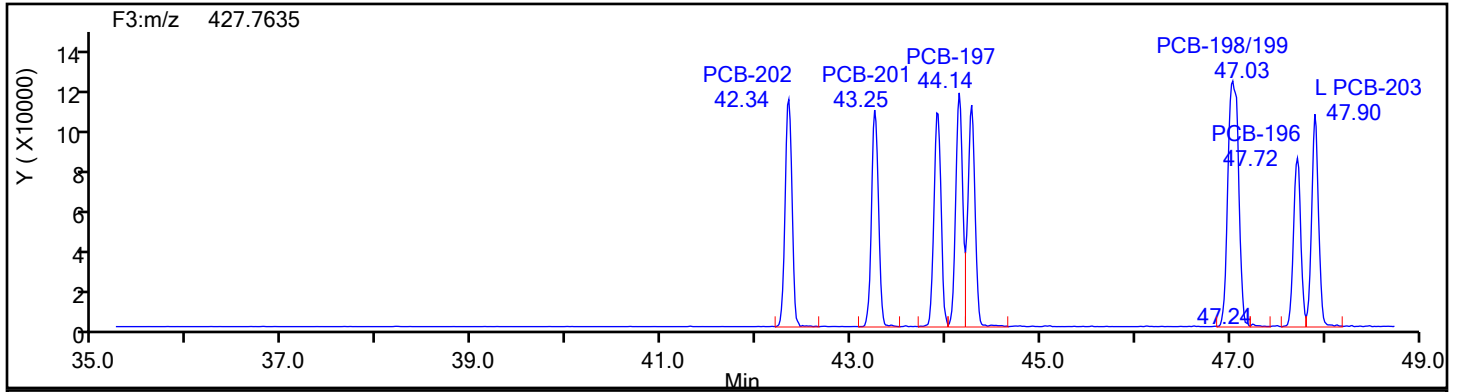
Worklist#: 88747

Sample Line#: 3

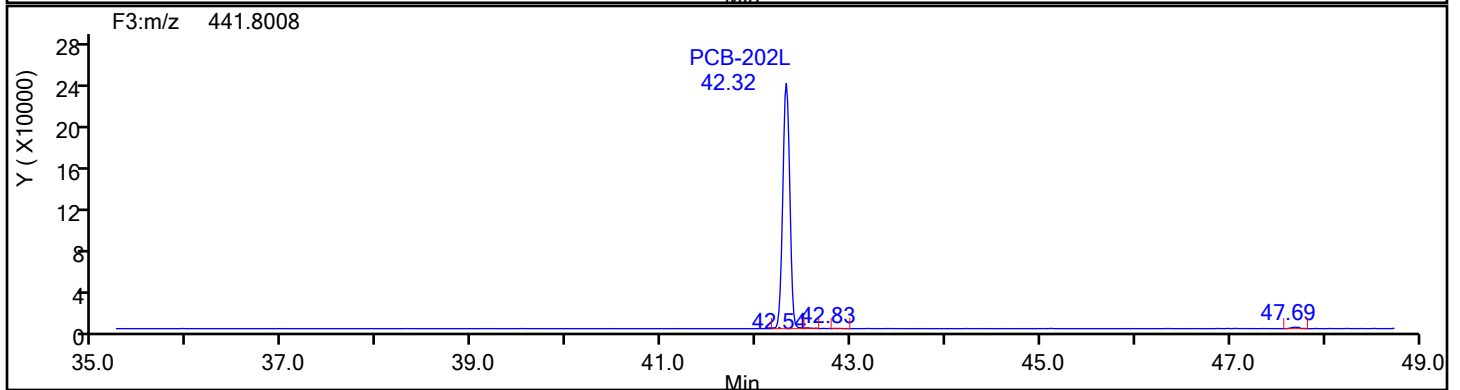
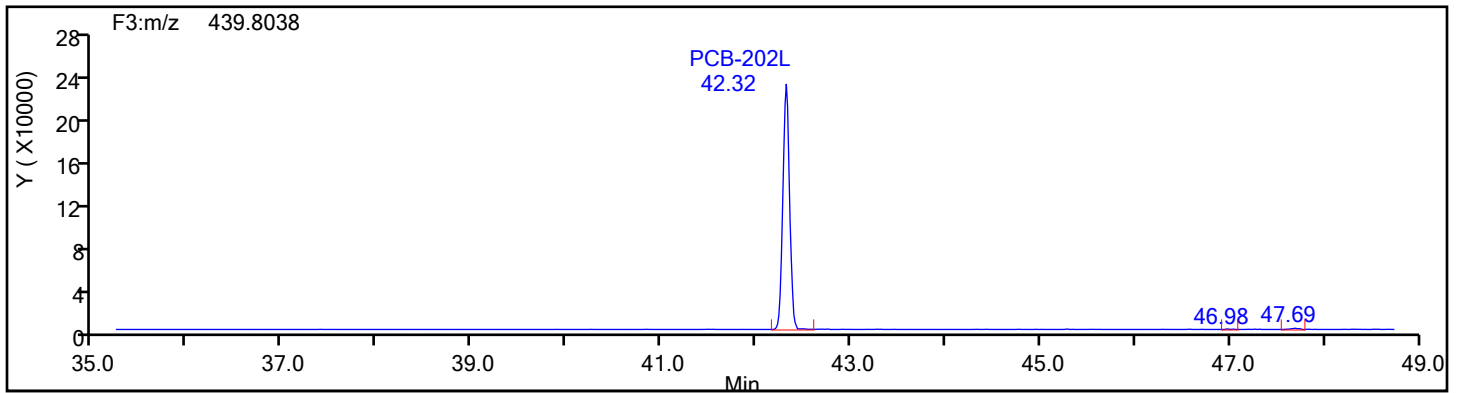
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

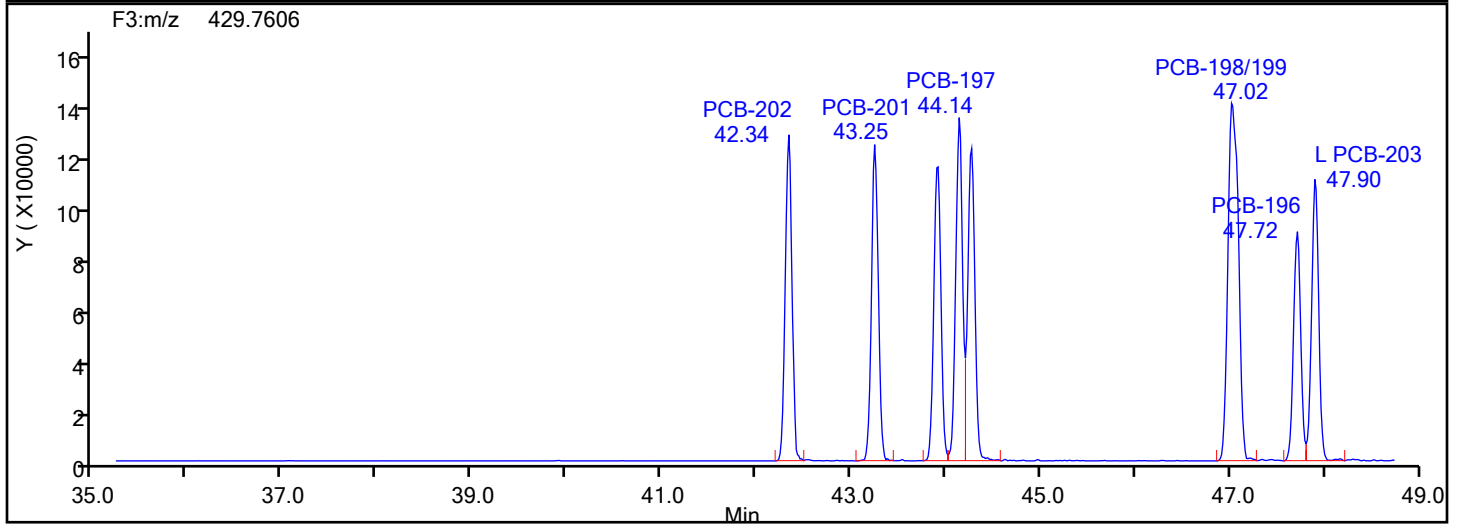
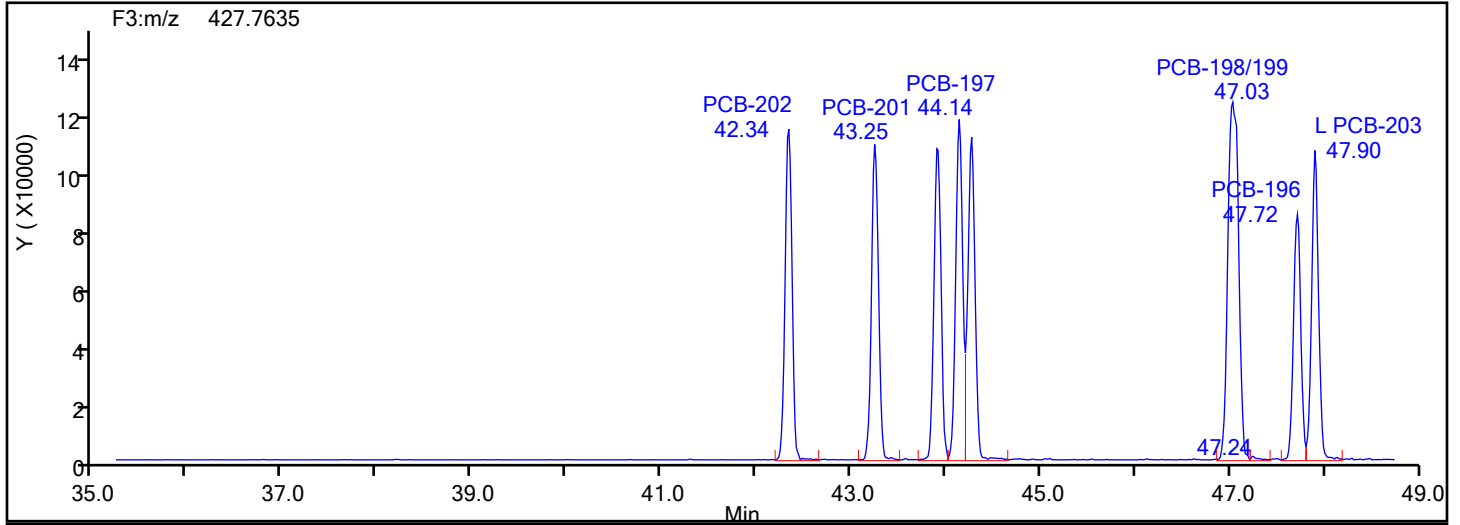
Worklist#: 88747

Sample Line#: 3

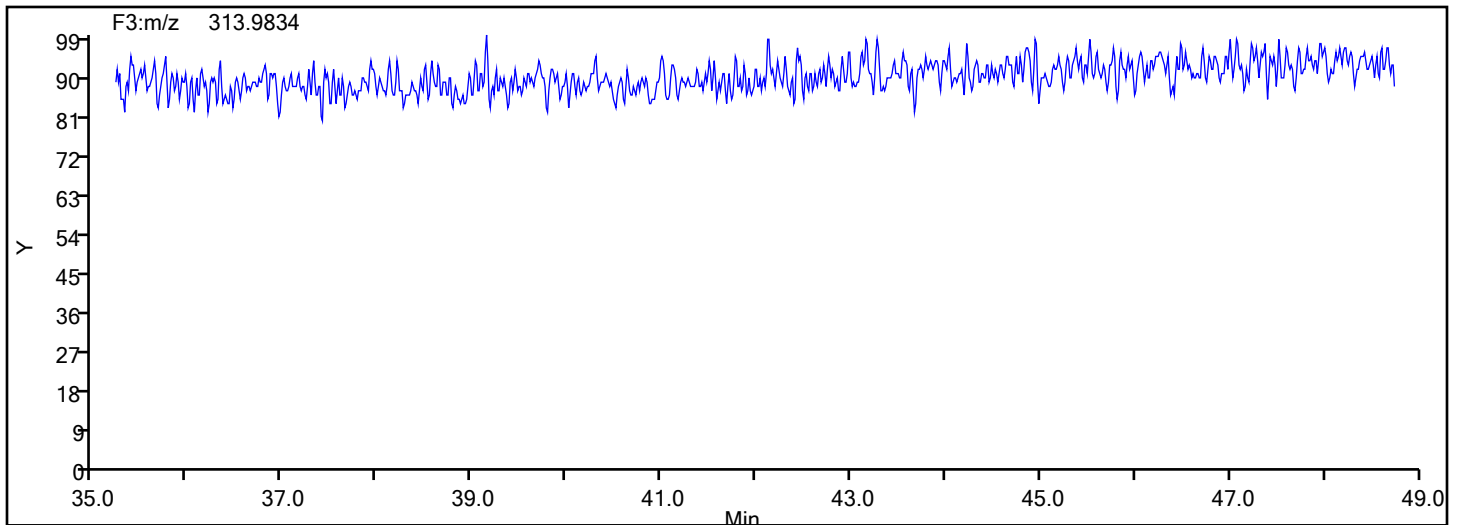
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

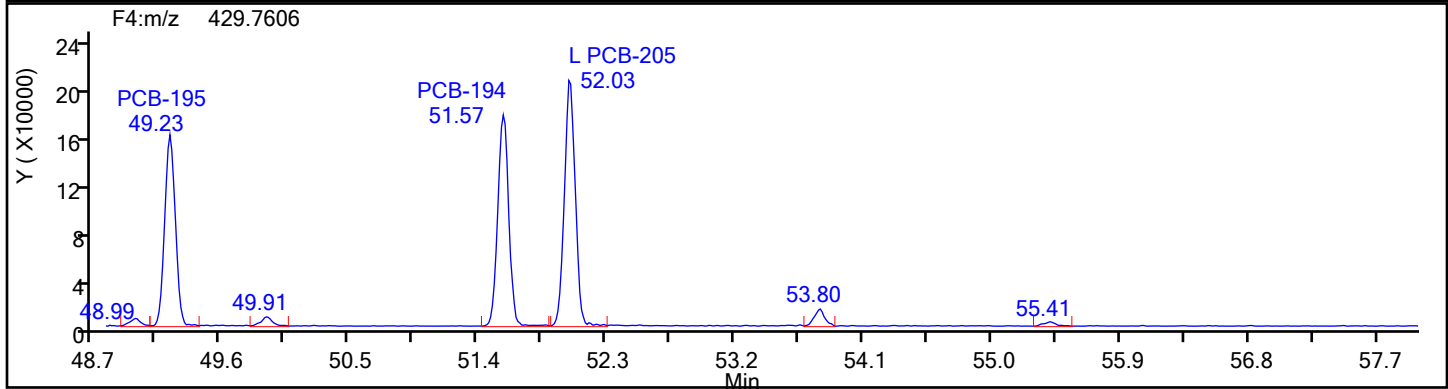
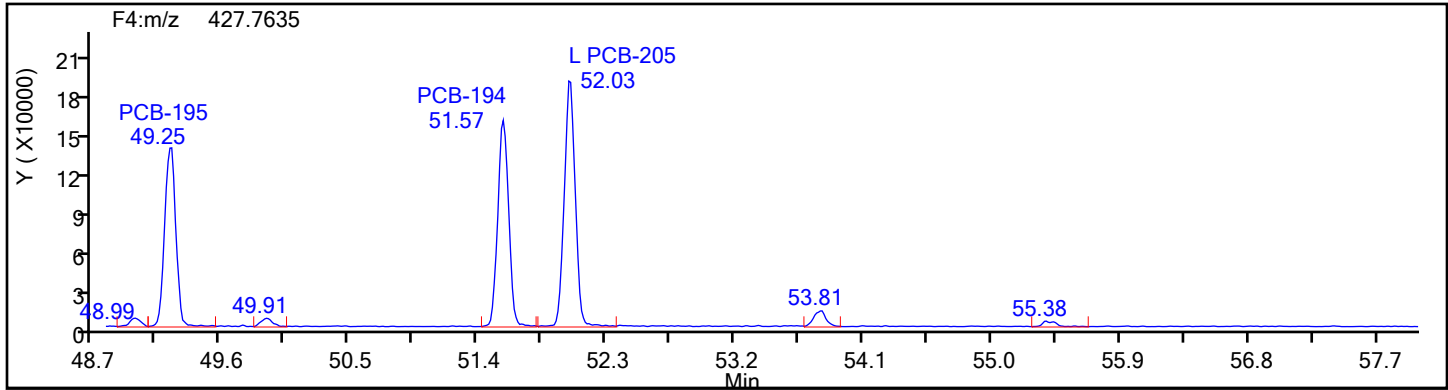
Worklist#: 88747

Sample Line#: 3

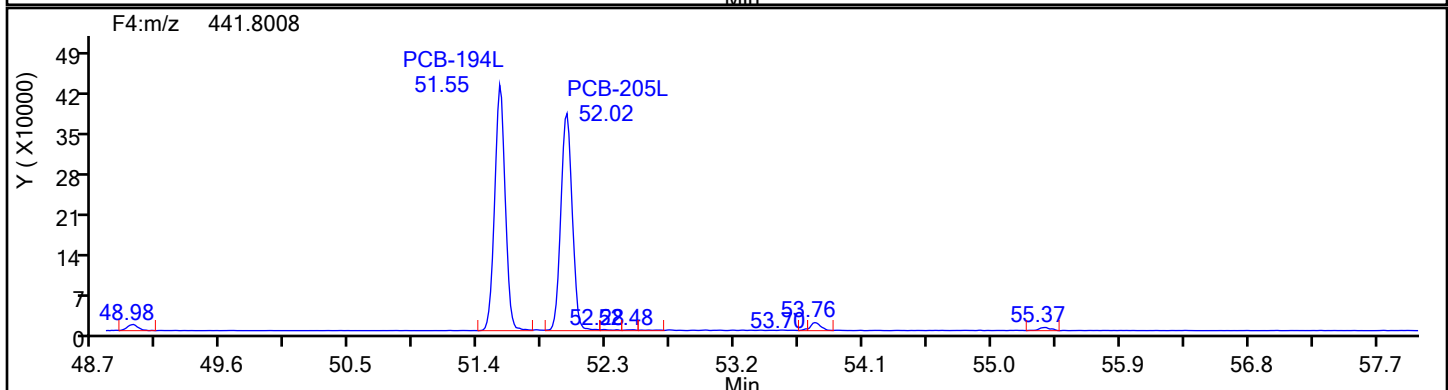
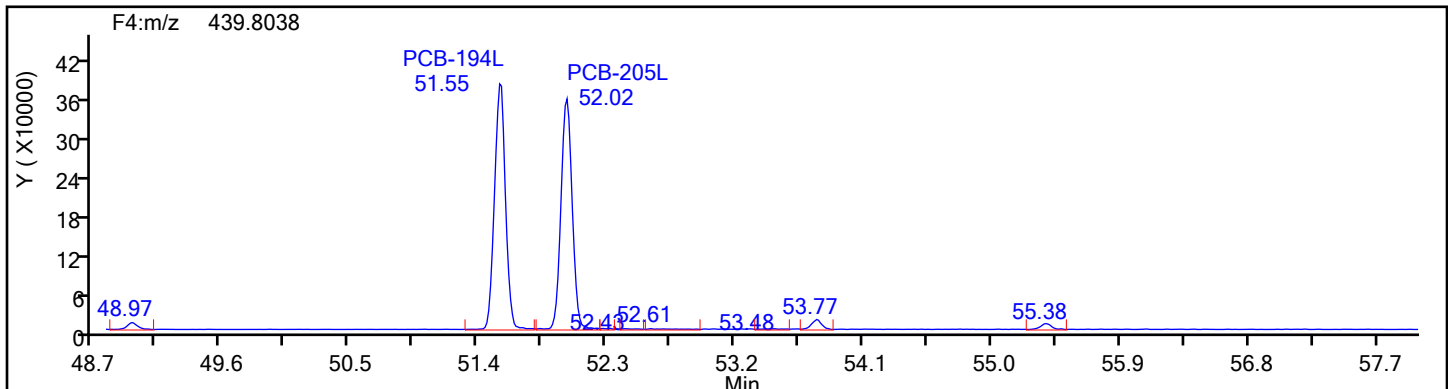
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

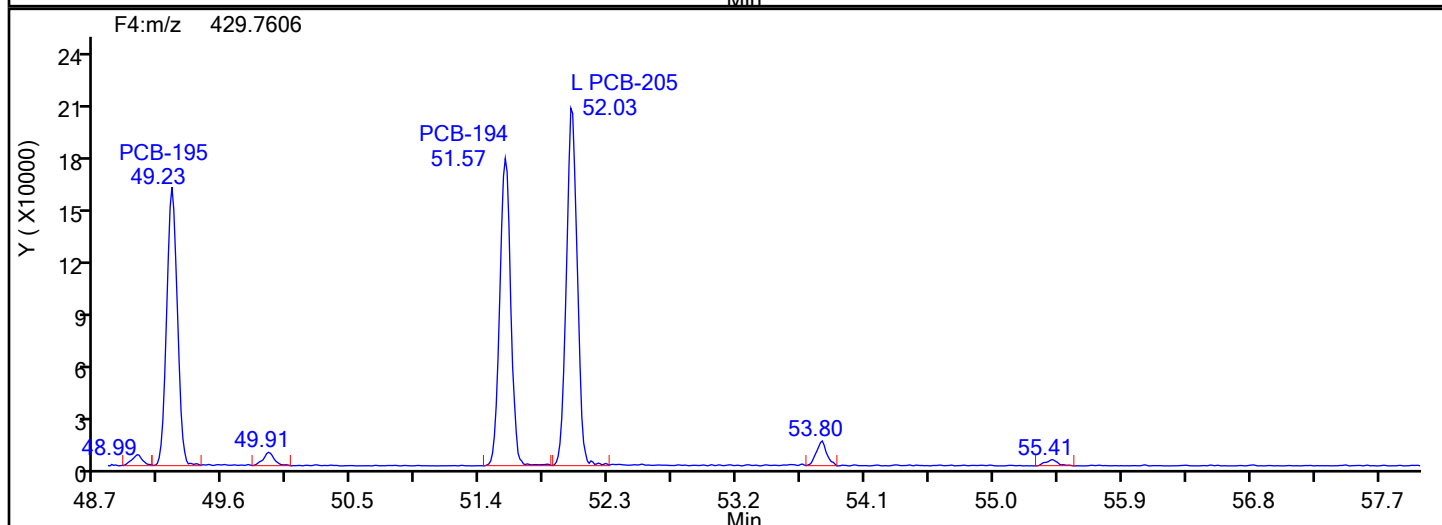
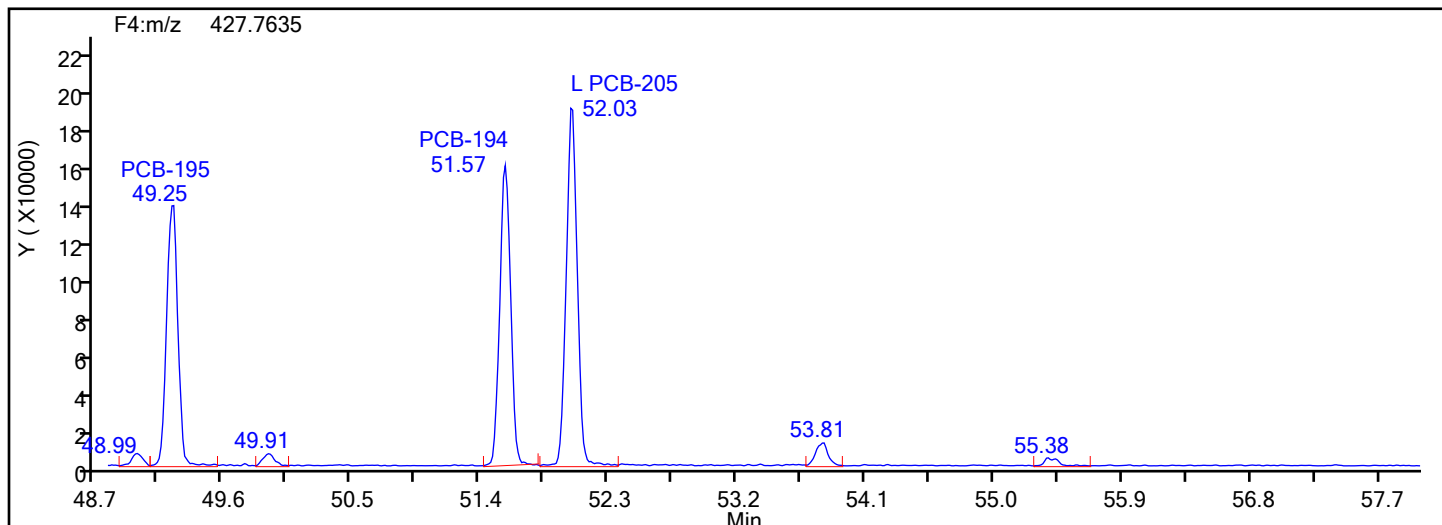
Worklist#: 88747

Sample Line#: 3

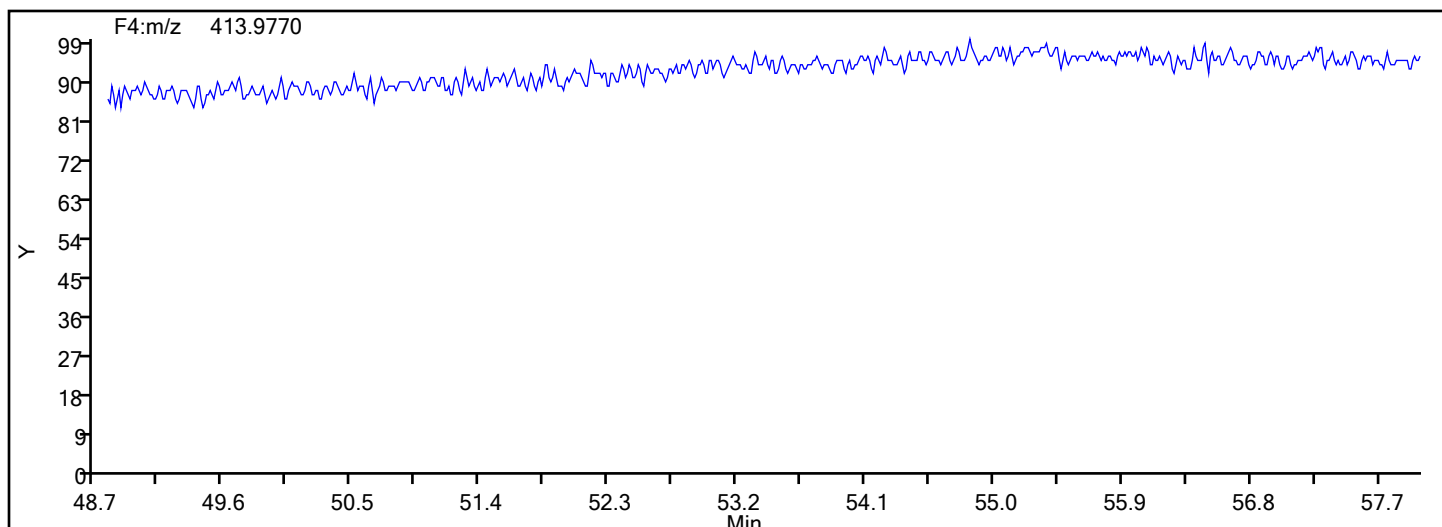
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

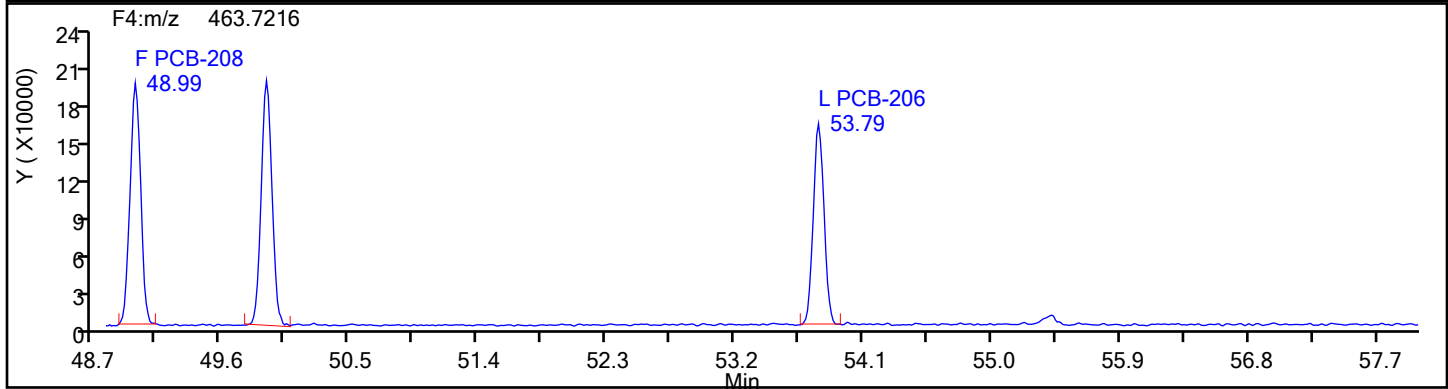
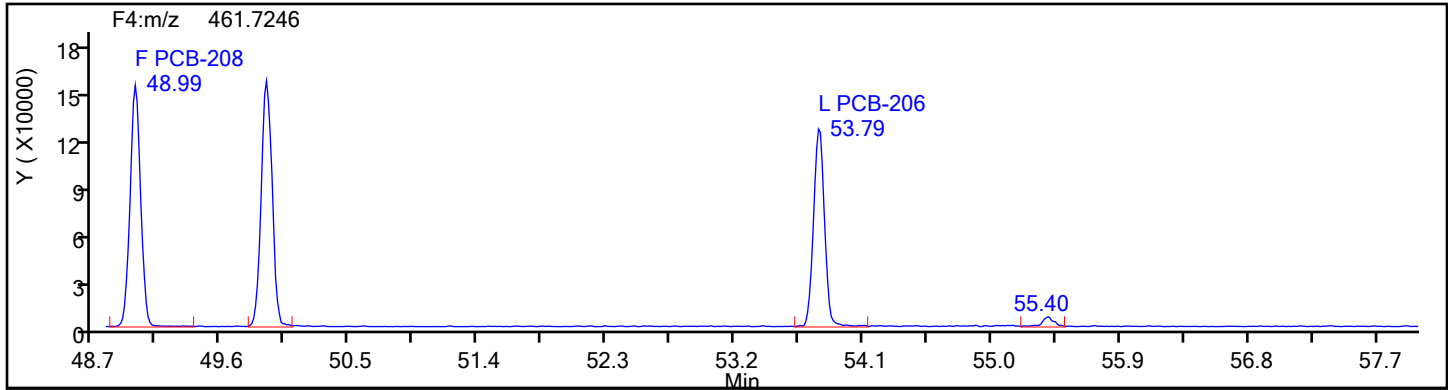
Worklist#: 88747

Sample Line#: 3

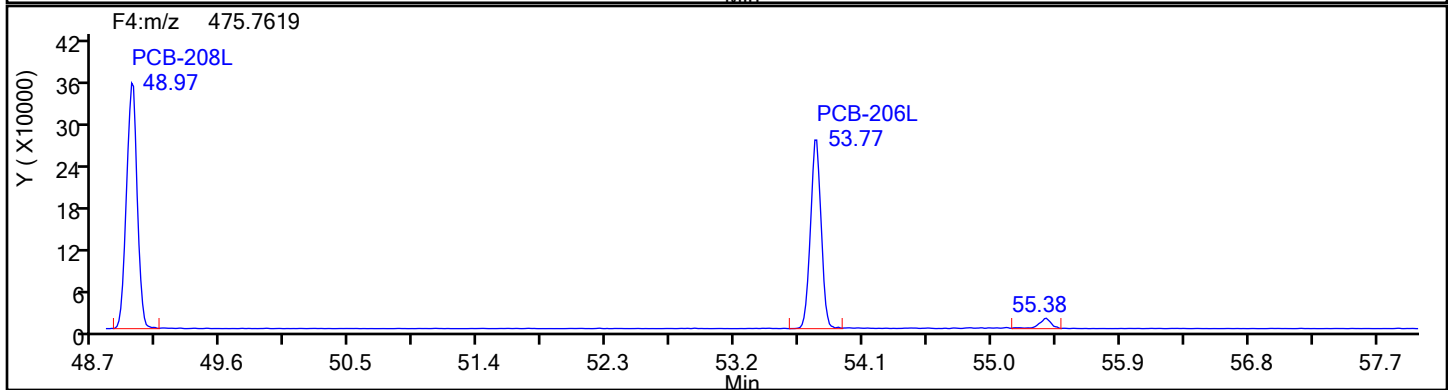
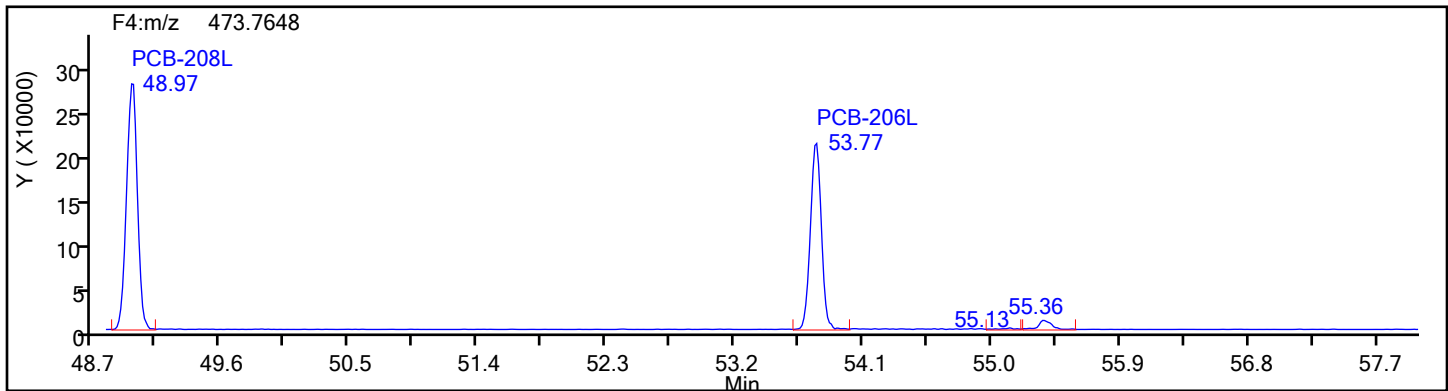
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

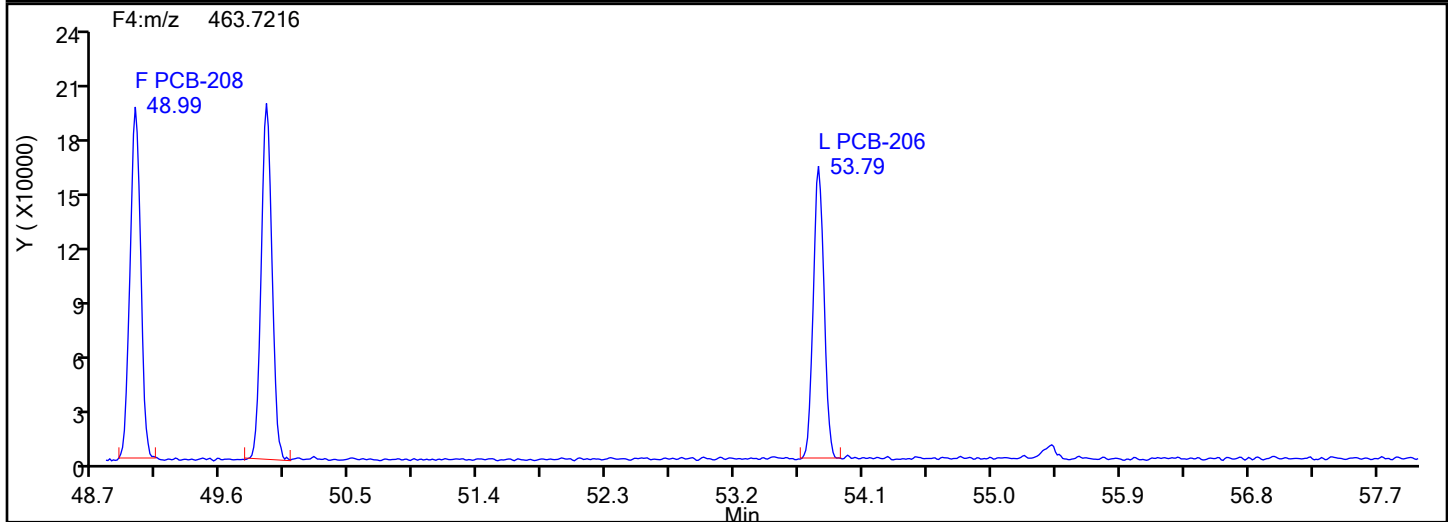
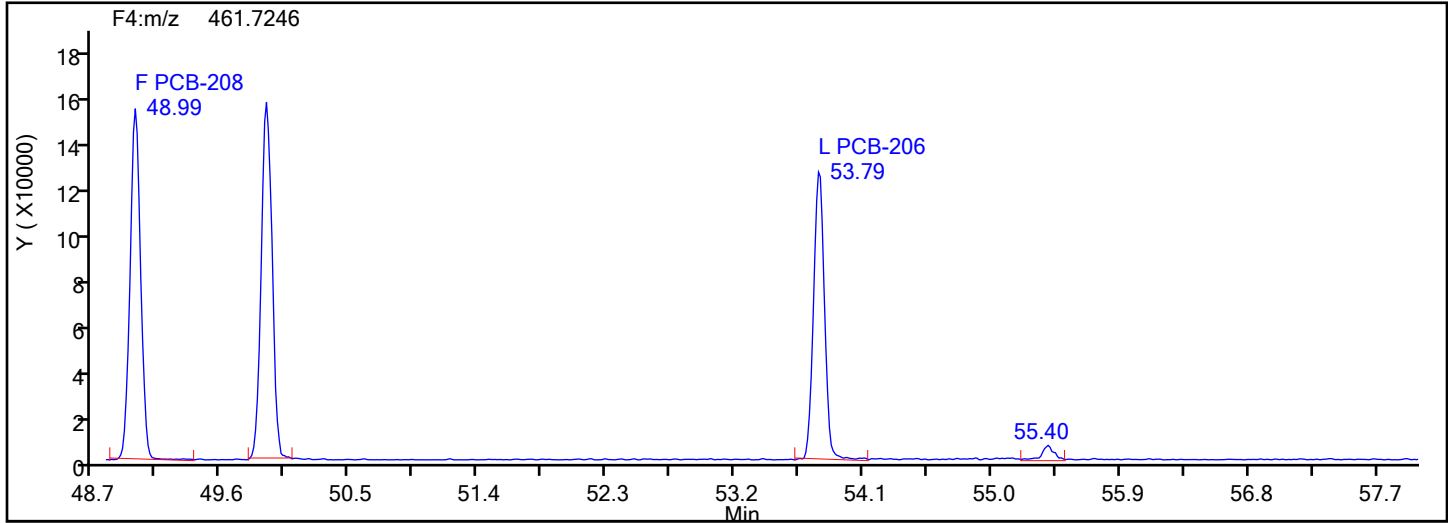
Worklist#: 88747

Sample Line#: 3

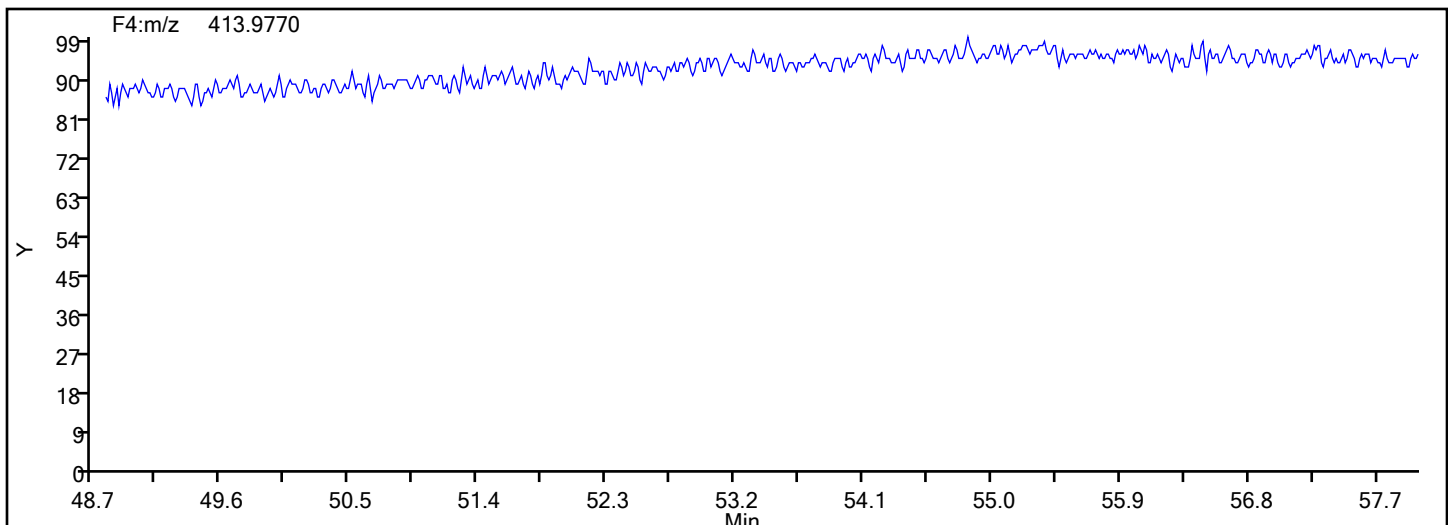
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d

Injection Date: 15-Jul-2024 14:45:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur_System

Method: PCBs_D2D

Limit Group: HR - EPA_23 PCB ICAL

Client ID:

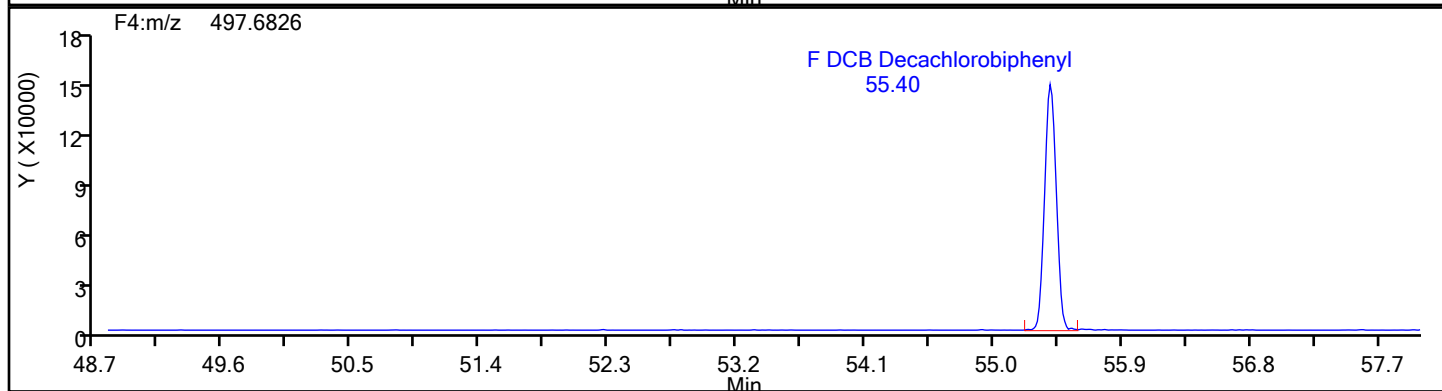
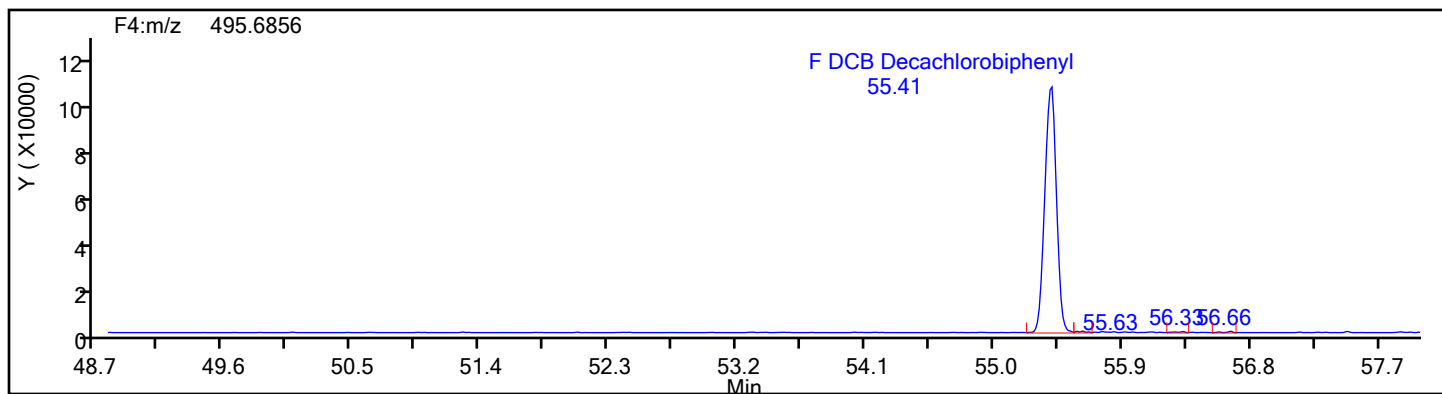
Worklist#: 88747

Sample Line#: 3

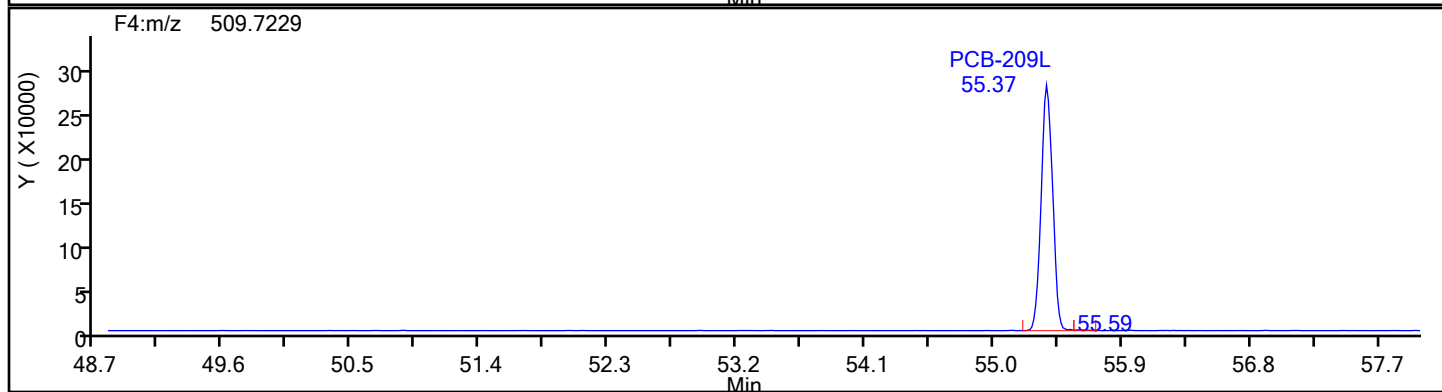
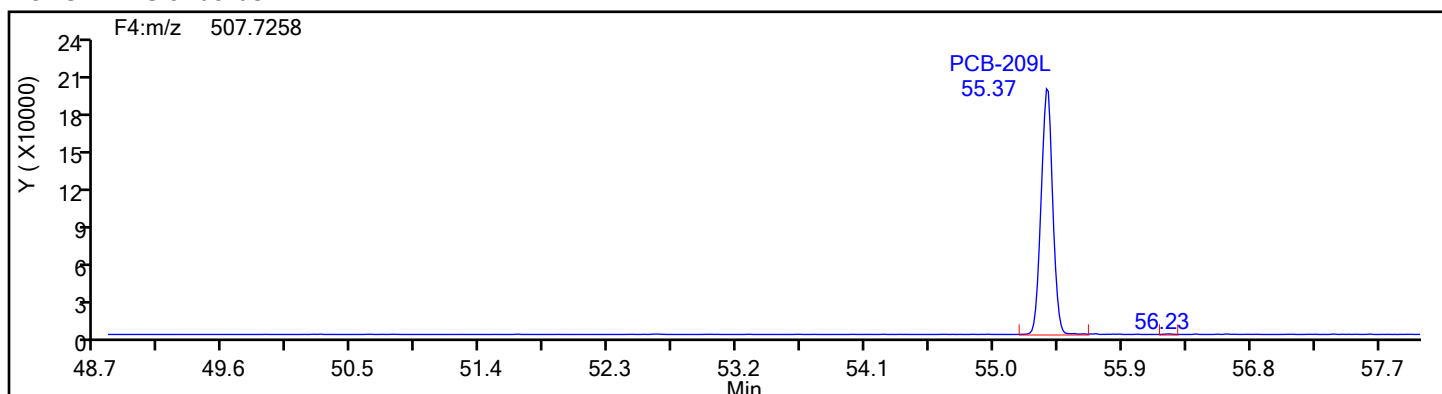
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4

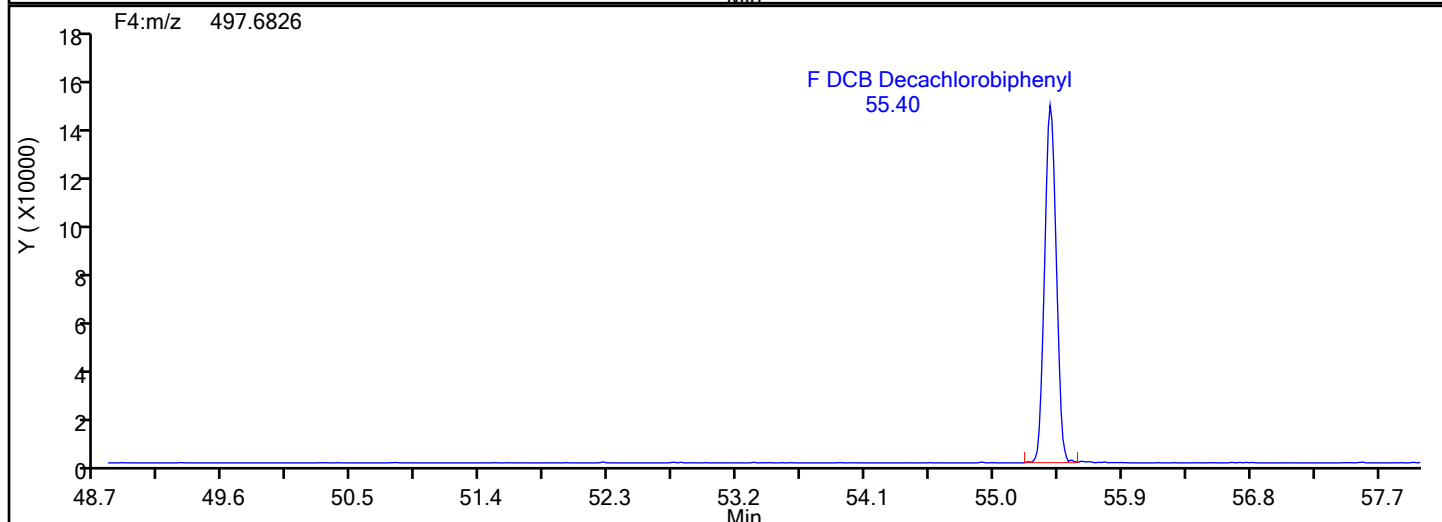
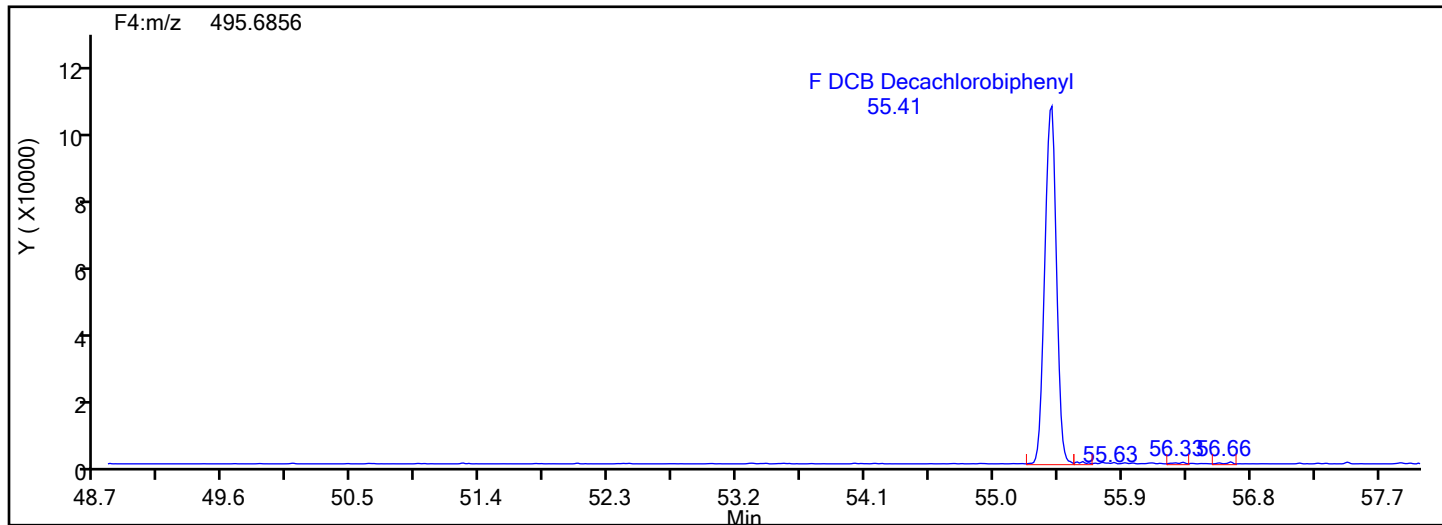


DePCB F4 Standards

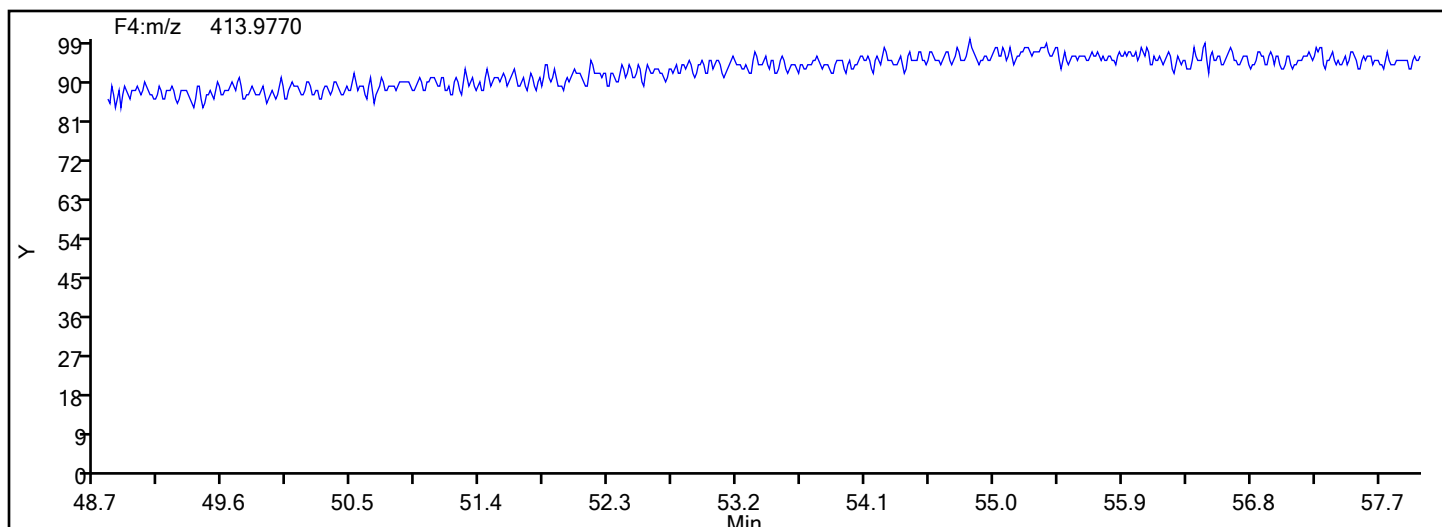


Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
Injection Date: 15-Jul-2024 14:45:00 Injection Vol: 1.0 ul
Instrument ID: D2D Operator ID: Xcalibur_System
Method: PCBs_D2D Limit Group: HR - EPA_23 PCB ICAL
Client ID:
Worklist#: 88747 Sample Line#: 3
Column Type: SPB-Octyl Column Dia: 0.25 mm
DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\lcsd140-8819320-b.d
Lims ID: LCSD 140-88193/20-B
Client ID:
Sample Type: LCSD
Inject. Date: 15-Jul-2024 14:45:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 140-0033504-003
Operator ID: Xcalibur_System Instrument ID: D2D
Method: \\chromfs\Knoxville\ChromData\D2D\20240715-33504.b\PCBs_D2D.m
Limit Group: HR - EPA_23 PCB ICAL
Last Update: 15-Jul-2024 19:48:30 Calib Date: 31-May-2024 21:13:00
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d
Column 1 : SPB-Octyl (0.25 mm) Det: F1(11.07 :21.70)
Process Host: CTX1621

First Level Reviewer: V4XA

Date: 15-Jul-2024 19:48:30

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	65.9	65.93
PCB-111L	100.0	68.7	68.67
PCB-178L	100.0	68.5	68.47

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Start Date: 05/31/2024 14:36

Analysis Batch Number: 87130 End Date: 05/31/2024 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87130/1		05/31/2024 14:36	1	d2240531pi1a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/2		05/31/2024 16:53	1	d2240531pi2a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/3		05/31/2024 18:00	1	d2240531pi3.d	SPB-Octyl 0.25 (mm)
IC 140-87130/4		05/31/2024 19:10	1	d2240531pi4.d	SPB-Octyl 0.25 (mm)
IC 140-87130/5		05/31/2024 20:12	1	d2240531pi5.d	SPB-Octyl 0.25 (mm)
IC 140-87130/6		05/31/2024 21:13	1	d2240531pi6.d	SPB-Octyl 0.25 (mm)
ICV 140-87130/7		05/31/2024 22:58	1	d2240531icv.d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB GC/MS Initial Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Mass Res Date/Time:	5/31/24 12:51	Inst:	D2D	ICal Event #s	5117 5118 5119 (EPA_23 PCB) (1668C) (1668A)
Chrom WL #:	32883	ADII Batch #'s	87130 87131 87132 (EPA_23 PCB) (1668C) (1668A)	2nd Source Filename	d2240531.icv

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ✓
1. Was the mass resolution documented before beginning the initial calibration?		✓			✓
2. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792, PFK) and $\geq 10,000$ in the center of each m/z range for the PFK masses or FC43 masses?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Have PCB Mixes 1 - 5 been analyzed using the installed column to assign congener retention times, method retention times, and MID switch points?		✓			✓
5. Were the calibration standard solutions, at the number and concentrations specified in the SOP, analyzed?		✓			✓
6. Was date/time of analysis verified as correct?		✓			✓
7. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187 in the CS3 standard?		✓			✓
8. Did the PCB co-elution 156/157 co-max within 2 seconds at peak maximum on the SPB-octyl?		✓			✓
9. Was the absolute retention time of PCB 209 greater than 55 minutes in the CS3 standard?		✓			✓
10. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			✓
11. Is the %RSD acceptable for all native analytes (within $\pm 20\%$ calculated by IDAs, and within $\pm 35\%$ when not calculated by IDAs)?		✓			✓
12. Is the %RSD acceptable (within $\pm 35\%$) for all labeled standards?		✓			✓
13. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including IDAs? (Exception: Secondary native dichloro biphenyl channel m/z 223.9974, PFK)		✓			✓
14. Are the ion abundance ratios for all native Toxics/LOCs and all labeled compounds within the control limits specified? (Exception: Native dichlorobiphenyls, PFK) (Table 9)		✓			✓
15. Were all toxic congeners uniquely resolved from non-toxic congeners?		✓			✓
16. Was an ICV analyzed and calculated according to Section 10.3.5 of the SOP?		✓		< 5 outliers, none more than $\pm 50\%$ D.	✓
17. If manual integrations were performed, are the analyst's name, reason and date noted in AD II?		✓			✓
18. If criteria were not met, was a NCM generated?	✓				NA
19. Do the ICAL AD II batches contain a completed checklist for this work list?		✓			✓
20. Verify the limit groups are picked correctly in the WL.		✓			✓
21. Are the reagents correct in the reagent tab?		✓			✓
22. First level "unlock/ clear" or "unlock clear by sublist" as appropriate?		✓			✓
23. All standards injected within 12 hours of the mass resolution check?		✓			✓
24. High point checked for saturation and low point at or below RL?		✓			✓
25. ICAL start/end dates correct on summary?		✓			✓
26. Final TALS review: Graphics uploaded, all points in the most recent active calibration event#, approved calibrations in TALS, ICV uploaded and included in all limit group batches?		✓			✓

Analyst: <u>BKK</u>		Date: <u>6/1/24</u>
Comments:		
2nd Level Reviewer: <u>Ch</u>		Date: <u>6-4-24</u>
Comments:		

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Instrument ID: D2D Start Date: 07/15/2024 12:43

Analysis Batch Number: 88747 End Date: 07/15/2024 18:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88747/1		07/15/2024 12:43	1	d2240715c1a.d	SPB-Octyl 0.25 (mm)
LCS 140-88193/19-B		07/15/2024 13:44	1	lcs140-8819319-b.d	SPB-Octyl 0.25 (mm)
LCSD 140-88193/20-B		07/15/2024 14:45	1	lcsd140-8819320-b.d	SPB-Octyl 0.25 (mm)
MB 140-88193/21-B		07/15/2024 16:31	1	mb140-8819321-b.d	SPB-Octyl 0.25 (mm)
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	07/15/2024 18:33	1	140-37232-a-1-d.d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Start Mass Res:	12:27	WL #:	33504	CS3 Filename:	d2240715c1a	Inst/Date:	D2D 7-15-24
End Mass Res:	23:40	AD II Batches:	88738, 88747			ICAL ADII Batch/ Event	87130/ 5117 87131/ 5118

Review Items	N/A	Yes	No	If No, why is data reportable?	2 nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		Y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or -50/+45% (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within -40/+30% (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? Note: for 1668C, PCB28L's lower limit can extend to -35%D.		Y			Y
18. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	NA				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

Analyst: JMN	Date: 7-15-24
Comments:	
2nd Level Reviewer : MAC	Date: 07/17/2024
Comments:	

Eurofins Knoxville HRMS PCB Batch Data Review Checklist
Method 1668 - KNOX-ID-0013-R21

WL #: 33504
ADII Batch #(s): 88738, 88747

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		<input type="checkbox"/> Dilution-Respike IDA (NCM#_____)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> Holding Time-Initial Analysis (NCM#_____) <input type="checkbox"/> Holding Time-Reanalysis (NCM#_____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		Y		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM#_____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM#_____)	Y
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		Y		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	Y
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM#_____)	Y
11. Are all non-detects that are G-qualified narrated?	NA			<input type="checkbox"/> (NCM#_____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 nd level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> LCS/LCSD-%R High (NCM#_____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM#_____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank \leq EML or within the specific program requirements?		Y		<input type="checkbox"/> Method Blank-Report, 10X (NCM#_____) <input type="checkbox"/> Method Blank-Report ND (NCM#_____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM#_____	Y

1st Level Reviewed by: BKK	Date: 7/16/2024
Comments:	
2nd Level Reviewed by: MAC	Date: 07/17/2024
Comments:	

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-37232-1
 SDG No.: _____
 Instrument ID: D2D Start Date: 07/16/2024 00:00
 Analysis Batch Number: 88780 End Date: 07/16/2024 10:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88780/1		07/16/2024 00:00	1	d2240715c2a.d	SPB-Octyl 0.25 (mm)
ZZZZZ		07/16/2024 01:54	1		SPB-Octyl 0.25 (mm)
140-37232-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	07/16/2024 02:56	1	140-37232-b-14- d.d	SPB-Octyl 0.25 (mm)
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	07/16/2024 03:58	1	140-37232-a-2-d .d	SPB-Octyl 0.25 (mm)
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	07/16/2024 04:59	1	140-37232-a-3-d .d	SPB-Octyl 0.25 (mm)
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	07/16/2024 06:00	1	140-37232-a-4-d .d	SPB-Octyl 0.25 (mm)
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	07/16/2024 07:01	1	140-37232-a-5-d .d	SPB-Octyl 0.25 (mm)
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	07/16/2024 08:02	1	140-37232-a-6-d .d	SPB-Octyl 0.25 (mm)
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	07/16/2024 09:03	1	140-37232-a-7-d .d	SPB-Octyl 0.25 (mm)
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	07/16/2024 10:05	1	140-37232-a-8-d .d	SPB-Octyl 0.25 (mm)

Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist
Method 1668 or SOP Number: KNOX-ID-0013 Revision 21

Start Mass Res:	23:40	WL #:	33514	CS3 Filename:	d2240715c2a	Inst/ Date:	D2D 7-15-24
End Mass Res:	11:10	AD II Batches:	88780			ICAL ADII Batch/ Event	87130 5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2 nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ($\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or $-50/+45\%$ (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within $-40/+30\%$ (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? Note: for 1668C, PCB28L's lower limit can extend to -35%D.		Y			Y
18. Are all S/N ratios ≥ 10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	NA				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

Analyst: LKM	Date: 7-15-24
Comments:	
2nd Level Reviewer : MAC	Date: 07/17/2024
Comments:	

Eurofins Knoxville HRMS PCB Batch Data Review Checklist
Method 1668 - KNOX-ID-0013-R21

WL #: 33514
ADII Batch #(s): 88780

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		<input type="checkbox"/> Dilution-Respike IDA (NCM#_____)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> Holding Time-Initial Analysis (NCM#_____) <input type="checkbox"/> Holding Time-Reanalysis (NCM#_____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		Y		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM#_____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM#_____)	Y
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		Y		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	Y
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM#_____)	Y
11. Are all non-detects that are G-qualified narrated?	NA			<input type="checkbox"/> (NCM#_____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 nd level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> LCS/LCSD-%R High (NCM#_____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM#_____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank \leq EML or within the specific program requirements?		Y		<input type="checkbox"/> Method Blank-Report, 10X (NCM#_____) <input type="checkbox"/> Method Blank-Report ND (NCM#_____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM#_____	Y

1st Level Reviewed by: LKM	Date: 7-17-24
Comments:	
2nd Level Reviewed by: MAC	Date: 07/17/2024
Comments:	

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 87130 Batch Start Date: 05/31/24 14:36 Batch Analyst: Knight, Benjamin K

Batch Method: 23 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61CV1668CS3 00019	61L0.51668P 00011	61L11668P 00006	61L21668P 00006	61L41668P 00006	61L51668P 00006
IC 140-87130/1		23				20 uL				
IC 140-87130/2		23					20 uL			
IC 140-87130/3		23						20 uL		
IC 140-87130/4		23			20 uL					
IC 140-87130/5		23							20 uL	
IC 140-87130/6		23								20 uL
ICV 140-87130/7		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61MX209ICVS 00010					
IC 140-87130/1		23								
IC 140-87130/2		23								
IC 140-87130/3		23								
IC 140-87130/4		23								
IC 140-87130/5		23								
IC 140-87130/6		23								
ICV 140-87130/7		23			20 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88193 Batch Start Date: 06/27/24 14:35 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-37232-A-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Combined Prep, Split, 23	Air	T	1429.6 g	509.9 g	919.7 mL	919.7 mL	919.7 mL	1 Sample
140-37232-A-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Combined Prep, Split, 23	Air	T	1364.4 g	510.3 g	854.1 mL	854.1 mL	854.1 mL	1 Sample
140-37232-A-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Combined Prep, Split, 23	Air	T	1468.2 g	509.7 g	958.5 mL	958.5 mL	958.5 mL	1 Sample
140-37232-A-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Combined Prep, Split, 23	Air	T	1395.1 g	511.2 g	883.9 mL	883.9 mL	883.9 mL	1 Sample
140-37232-A-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Combined Prep, Split, 23	Air	T	1424.4 g	510.4 g	914 mL	914 mL	914 mL	1 Sample
140-37232-A-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Combined Prep, Split, 23	Air	T	1414.3 g	511.3 g	903 mL	903 mL	903 mL	1 Sample
140-37232-A-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Combined Prep, Split, 23	Air	T	1425.2 g	510.2 g	915 mL	915 mL	915 mL	1 Sample
140-37232-A-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Combined Prep, Split, 23	Air	T	586.9 g	265.0 g	321.9 mL	321.9 mL	321.9 mL	1 Sample
140-37232-B-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-88193/19		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-88193/20		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88193 Batch Start Date: 06/27/24 14:35 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
MB 140-88193/21		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00006	61ID1668WRK 00057	61SP1668WRK 00009		
140-37232-A-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-A-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Combined Prep, Split, 23	Air	T	30 mL	300 uL	3 mL			
140-37232-B-14	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T	30 mL		3 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88193 Batch Start Date: 06/27/24 14:35 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 07/01/24 12:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00006	61ID1668WRK 00057	61SP1668WRK 00009		
LCS 140-88193/19		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
LCSD 140-88193/20		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
MB 140-88193/21		Combined Prep, Split, 23			30 mL		3 mL			

Batch Notes	
MeCL2 ID	241700
Na2SO4 ID	692772
Sulfuric Acid ID	682487
Hexane ID	241348
Analyst ID - TA Reagent Drop	ss
Analyst ID - IDA Reagent Drop	ss
Analyst ID - TA Reagent Drop Witness	dm
Analyst ID - IDA Reagent Drop Witness	dm
Analyst ID - Extraction	ss
Extraction 1 Start Time	15:30
First Extraction Start Date	06/28/2024
Extraction 1 End Time	09:11
First Extraction End Date	06/29/2024 09:11
Analyst ID - Concentration	ss
Concentration Date	07/01/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88338 Batch Start Date: 07/02/24 10:18 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 07/13/24 13:10

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	61CS1668WRK 00037	61RS1668WRK 00038		
140-37232-A-1-B	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-2-B	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-3-B	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-4-B	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-5-B	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-6-B	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-7-B	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-A-8-B	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-37232-B-14-B	A-2232,A-2233 M23 MEDIA CHECK XAD,FILTER	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
LCS 140-88193/19-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
LCSD 140-88193/20-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
MB 140-88193/21-A		Split, 23			10 mL	100 uL	1 mL	100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-37232-1

SDG No.: _____

Batch Number: 88338 Batch Start Date: 07/02/24 10:18 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 07/13/24 13:10

Batch Notes	
Analyst ID - SU Reagent Drop	der
Analyst ID - IS Reagent Drop	caa
Analyst ID - SU Reagent Drop Witness	cas
Analyst ID - IS Reagent Drop Witness	caa
Hexane ID	241348
Na2SO4 ID	692772
MeCL2 ID	241700
GPC ID	GPC 5
GPC Analyst	MJR
GPC Date	07/10/2024
Silica Gel C/U analyst	der
Silica Gel C/U Date	07/09/2024
Acid Silica Gel ID	707009
Deactivated Silica ID	702322
Analyst ID - Concentration	DAC 7/12/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Eurofins Knoxville Extraction Sheet

88193

88338

Combined_HR

88338

initials/date/time

Lab Sample ID	Place XAD and particulate filter sample in a med Soxhlet.	Add 1.0 mL of 10 ng/mL IS (IDA) to all samples & QC. Record in TALS.	Add 1.0 mL of 5 ng/mL native spike (TA) to LCS/LCSD. Record in TALS.	Extract 16 hr with MeCl ₂ .	Note in TALS sample comment if FH/BH solvent rinse lost volume during shipment.	Perform Condensate extraction and concentration as needed.	Concentrate and add FH/BH rinse to extract. Exchange to hexane. Bring to ~20 mL.	Create Split Batch in TALS. Split samples if needed.	Add 1.0 mL of 10 ng/mL cleanup std (SU) to all extracts. Record in TALS.	Acid wash extracts if needed.	Concentrate on N-EVAP to ~8-10 mL for silica gel column cleanup.	Perform silica gel column cleanup.	Concentrate to ~20 mL	Concentrate on N-EVAP to ≤1 mL for GPC	Perform GPC cleanup.	Concentrate/exchange to ~2 to 4 mL hexane.	Concentrate to ~1 mL on N-EVAP.	Add 100 µL of 100 ng/mL recovery std (IS) to mini-vial. Record in TALS. Transfer extract to vial.	Conc to 100 µL final volume in nonane. Record final volume in TALS.
140-37232-A-1	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-2	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-3	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-4	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-5	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-6	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-7	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-A-8	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37232-B-14	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-1	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-2	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-3	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-4	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-5	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-6	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-7	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-8	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
140-37234-A-14	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
LCS 140-88193/19	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
LCSD 140-88193/20	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓
LAB 140-88193/21	✓	3.0	NA	✓	NA	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	✓	✓	✓

OP156R0 052024

Printed: 6/27/2024 2:59 PM

Eurofins Knoxville Prep Batch Review Checklist

Batch # 88193Split Batch # 88338

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?		✓			✓
3. Were all project specific requirements met?		✓			✓
4. Were the correct start and completion dates entered into TALS?		✓			✓
5. Are the spike IDs and volumes correct in TALS for the method?		✓			✓
6. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> Extraction Benchsheet (Excel) Batch Worksheets (ANLY) Verify Protocol #'s (compare excel sheet to TALS) Was the Excel Extraction Benchsheet and Prep Batch Review Checklist scanned and attached to batch in TALS? 		✓			✓
7. Did extracts go through GPC cleanup? Has the following nonconformance been associated with all extracts?		✓		If Yes, <input type="checkbox"/> Clean-up Required - GPC (NCM# <u>140-57194</u>)	✓
8. Are all additional nonconformances documented appropriately?	✓			If Yes, NCM#: _____	✓
Analyst : <u>CAA</u> Date: <u>7/13/24</u>					
Comments:					
2nd Level Reviewer: <u>RKG</u> Date: <u>7/15/24</u>					
Comments:					

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jason LaCroix		Date:	
Alliance Source Testing AST Office: BTR		Tel/Fax: 225-773-8654		Carrier:	
Address 6110 Copperhead Road,		Analysis Turnaround Time		For Lab Use Only:	
City/State/Zip Geismar, LA 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Walk-in Client:	
258-351-0121 Phone		TAT if different from Below		Lab Sampling:	
BTRreports@stacktest.com		<input type="checkbox"/> 2 weeks		Job / SDG No.:	
Project Name: BASF 24-2594		<input type="checkbox"/> 1 week		Sample Specific Notes:	
Site: Pasadena, TX McIntosh, AL		<input type="checkbox"/> 2 days		PAH/PCB	
PO#		<input type="checkbox"/> 1 day		"	

Sample No. 7 Boiler Outlet Identification	Sample Date	Sample Time	Sample Type (G=Grab, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA M23 - Filter	EPA M23 - FH/BH Acetone/Toluene Rinse	EPA M23 - XAD	EPA M23 - DI H2O Imp. Contents	EPA M23 - BH Imp. Acetone/Toluene Rinse	Sample Specific Notes:
No. 7 Boiler Outlet - Cont. #1 - Run 1	6/11/24	1546	G	A	1			✓					PAH/PCB
No. 7 Boiler Outlet - Cont. #2 - Run 1	6/11/24	1546	G	A	1				✓				"
No. 7 Boiler Outlet - XAD Resin Trap - Run 1	6/11/24	1546	G	A	1					✓			"
No. 7 Boiler Outlet - Cont. #3A - Run 1	6/11/24	1546	G	A	1						✓		"
No. 7 Boiler Outlet - Cont. #3B - Run 1	6/11/24	1546	G	A	1							✓	"
No. 7 Boiler Outlet - Cont. #1 - Run 2	6/11/24	1855	G	A	1			✓					"
No. 7 Boiler Outlet - Cont. #2 - Run 2	6/11/24	1855	G	A	1				✓				"
No. 7 Boiler Outlet - XAD Resin Trap - Run 2	6/11/24	1855	G	A	1					✓			"
No. 7 Boiler Outlet - Cont. #3A - Run 2	6/11/24	1855	G	A	1						✓		"
No. 7 Boiler Outlet - Cont. #3B - Run 2	6/11/24	1855	G	A	1							✓	"

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard No. 7 Boiler Outlets Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be charged): ☐ Return to Client ☒ 140-37232 Chain of Custody

Custody Seal No.:		Cooler Temp. (°C):		Obs'd:		Corr'd:		Therm No. 7 Boiler Outlet No.:	
Relinquished by: <i>Jason LaCroix</i>		Company: Alliance		Date/Time: 6/11/24 10:46		Received by: <i>Jason LaCroix</i>		Company: EPA	
Relinquished by: <i>Day Call</i>		Company: EPA		Date/Time: 6/11/24 09:00		Received by: <i>Day Call</i>		Company: EPA	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

Chain of Custody Record

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:	
Alliance Source Testing		Tel/Fax: 225-773-9654		Lab Contact:		Carrier:	
Address 6110 Copperhead Road,		Analysis Turnaround Time		EPA M23 - Filter		EPA M23 - DI H2O Imp. Contents	
City/State/Zip Geismar, LA 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		EPA M23 - FH/BH Acetone/Toluene Rinse		EPA M23 - BH Imp.	
256-351-0121 Phone		TAT if different from Below		Perform MS / MSD (Y / N)		Sample Specific Notes:	
BTRreports@stacktest.com		<input type="checkbox"/> 2 weeks		Filtered Sample (Y / N)		PAH/POB	
Project Name: BASF 24-2594		<input type="checkbox"/> 1 week					
Site: Pasadena, TX		<input type="checkbox"/> 2 days					
P O #		<input type="checkbox"/> 1 day					

Sample No. 7 Boiler Outlet Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.
No. 7 Boiler Outlet - Cont. #1 - Run 3	6/12/24	1400	G	A	1
No. 7 Boiler Outlet - Cont. #2 - Run 3	6/12/24	1400	G	A	1
No. 7 Boiler Outlet - XAD Resin Trap - Run 3	6/12/24	1400	G	A	1
No. 7 Boiler Outlet - Cont. #3A - Run 3	6/12/24	1400	G	A	1
No. 7 Boiler Outlet - Cont. #3B - Run 3	6/12/24	1400	G	A	1
No. 7 Boiler Outlet - Cont. #1 - Run 4	6/12/24	1330	G	A	1
No. 7 Boiler Outlet - Cont. #2 - Run 4	6/12/24	1330	G	A	1
No. 7 Boiler Outlet - XAD Resin Trap - Run 4	6/12/24	1330	G	A	1
No. 7 Boiler Outlet - Cont. #3A - Run 4	6/12/24	1830	G	A	1
No. 7 Boiler Outlet - Cont. #3B - Run 4	6/12/24	1830	G	A	1

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard No. 7 Boiler Outlet Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined FH/BH Analysis

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Received by:	Received by:	Received by:
Relinquished by: <i>Jason LaCroix</i>	Company: Alliance	Date/Time: 6/17/24 1000	Date/Time: 6/17/24 1000	Date/Time: 6/17/24 1000
Relinquished by: <i>Don Caldwell</i>	Company: ETA Knox	Date/Time: 6/19/24 0900	Date/Time: 6/19/24 0900	Date/Time: 6/19/24 0900
Relinquished by:	Company:	Date/Time:	Date/Time:	Date/Time:

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jason LaCroix Tel/Fax: 225-773-8654		Site Contact: Lab Contact:		Date: Carrier:		COC No: 7 of 3 COCs			
Alliance Source Testing AST Office: BTR Address 6110 Copperhead Road, City/State/Zip Geismar, LA 70734 256-351-0121 Phone BTRreports@stacktest.com		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		EPA M23 - Filter		EPA M23 - FH/BH Acetone/Toluene Rinse		EPA M23 - DI H2O Imp. Contents		Acetone/Toluene Rinse	
Project Name: BASF 24-2594 Site: Peaceland McIntosh, AL PO #		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	

Sample No. 7 Boiler Outlet/identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	EPA M23 - Filter	EPA M23 - FH/BH Acetone/Toluene Rinse	EPA M23 - DI H2O Imp. Contents	Acetone/Toluene Rinse	Sample Specific Notes:
No. 7 Boiler Outlet - Cont. #1 - Run 5	6/13/24	1536	G	A	1			✓				PAH/PCB
No. 7 Boiler Outlet - Cont. #2 - Run 5	6/13/24	1530	G	A	1				✓			"
No. 7 Boiler Outlet - XAD Resin Trap - Run 5	6/13/24	1530	G	A	1					✓		"
No. 7 Boiler Outlet - Cont. #3A - Run 5	6/13/24	1530	G	A	1					✓		"
No. 7 Boiler Outlet - Cont. #3B - Run 5	6/13/24	1530	G	A	1			✓				"
No. 7 Boiler Outlet - Cont. #1 - Run 6	6/13/24	1805	G	A	1			✓				"
No. 7 Boiler Outlet - Cont. #2 - Run 6	6/13/24	1805	G	A	1				✓			"
No. 7 Boiler Outlet - XAD Resin Trap - Run 6	6/13/24	1805	G	A	1					✓		"
No. 7 Boiler Outlet - Cont. #3A - Run 6	6/13/24	1805	G	A	1					✓		"
No. 7 Boiler Outlet - Cont. #3B - Run 6	6/13/24	1805	G	A	1					✓		"

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard No. 7 Boiler Outlet/identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined FH/BH Analysis

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm No. 7 Boiler Outlet No.:
Relinquished by: <i>James</i>	Company: <i>Allicia</i>	Received by: <i>[Signature]</i>	Company: <i>EPA KNOX</i>	Date/Time: <i>6/17/24 10:00</i>
Relinquished by: <i>Dony CEO</i>	Company: <i>EPA KNOX</i>	Received by: <i>[Signature]</i>	Company: <i>EPA KNOX</i>	Date/Time: <i>6/19/24 09:00</i>
Relinquished by:	Company:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Knoxville
5815 Middlebrook Pike

Knoxville, TN 37921-5947
phone 865.291.3000 fax 865.584.4315

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jason LaCroix		Site Contact:		Date:	
Alliance Source Testing		Tel/Fax: 225-773-8654		Lab Contact:		Carrier:	
Address 6110 Copperhead Road,		Analysis Turnaround Time		EPA M23 - Filter		EPA M23 - DI H2O Imp. Contents	
City/State/Zip Geismar, LA 70734		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		EPA M23 - FH/BH Acetone/Toluene Rinse		EPA M23 - XAD	
256-351-0121 Phone		TAT if different from Below		EPA M23 - BH Imp.		EPA M23 - DI H2O Imp. Contents	
BTRreports@stacktest.com		<input type="checkbox"/> 2 weeks		EPA M23 - Filter		EPA M23 - XAD	
Project Name: BASF 24-2594		<input type="checkbox"/> 1 week		EPA M23 - BH Imp.		EPA M23 - DI H2O Imp. Contents	
Site: Basf Mcintosh, AL		<input type="checkbox"/> 2 days		EPA M23 - Filter		EPA M23 - XAD	
P O #		<input type="checkbox"/> 1 day		EPA M23 - BH Imp.		EPA M23 - DI H2O Imp. Contents	

Sample No. 7 Boiler Outlet Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	EPA M23 - Filter	EPA M23 - FH/BH Acetone/Toluene Rinse	EPA M23 - XAD	EPA M23 - DI H2O Imp. Contents	EPA M23 - BH Imp.	Acetone/Toluene Rinse	Sample Specific Notes:
No. 7 Boiler Outlet - Cont. #1 - Run 7	6/14/24	1315	G	A	1			✓						PAH/PCB
No. 7 Boiler Outlet - Cont. #2 - Run 7	6/14/24	1315	G	A	1				✓					"
No. 7 Boiler Outlet - XAD Resin Trap - Run 7	6/14/24	1315	G	A	1					✓				"
No. 7 Boiler Outlet - Cont. #3A - Run 7	6/14/24	1315	G	A	1						✓			"
No. 7 Boiler Outlet - Cont. #3B - Run 7	6/14/24	1315	G	A	1							✓		"
No. 7 Boiler Outlet - Cont. #1 - Run FB	6/14/24	1600	G	A	1			✓						"
No. 7 Boiler Outlet - Cont. #2 - Run FB	6/14/24	1600	G	A	1				✓					"
No. 7 Boiler Outlet - XAD Resin Trap - Run FB	6/14/24	1600	G	A	1					✓				"
No. 7 Boiler Outlet - Cont. #3A - Run FB	6/14/24	1600	G	A	1						✓			"
No. 7 Boiler Outlet - Cont. #3B - Run FB	6/14/24	1600	G	A	1							✓		"

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard No. 7 Boiler Outlet Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments: Reduced Reporting, Combined F/H/BH Analysis

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Company: Alliance	Date/Time: 6/17/24 1000	Received by: Doug Allen	Cooler Temp. (oC):	Obs'd:	Cor'd:	Therm No. 7 Boiler Outlet No.:
Relinquished by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000	Received by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000	Received by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000
Relinquished by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000	Received by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000	Received by: Doug Allen	Company: Alliance	Date/Time: 6/17/24 1000

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	HAND DELIVERED
2. Were ambient air containers received intact?	/			<input type="checkbox"/> Checked in lab	NO CUSTODY SEAL
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	SEALING FACT 1.6.3.2.2.0/CT 1.7.3.3.2.1.1
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : <u>5716</u> Correction factor: <u>±0.1°C</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	NO 6-19-24
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	10
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input checked="" type="checkbox"/> Sampler Not Listed on COC	pH test strip lot number: _____
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/			<input type="checkbox"/> Residual Chlorine	
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: _____ PM Instructions: _____					

QA026R33.doc, 11/10/23

Date: 6-19-24

Sample Receiving Associate: *[Signature]*

Appendix F: ANALYTICAL DATA ASSESSMENT FORMS

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-37218-1

Sample Holding Time Check

[illegible]

**Note: QAPP ≤ 180 day holding time objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-37218-1

Evaluation of Precision - Field Duplicates (per CPT)

[illegible]

** Note: QAPP $\leq 20\%$ RPD objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-37218-1

Evaluation of Precision - LCS/LCSD (per batch)

Batch No.:	88820			
Page No.:	18			
Parameter	LCS	LCSD	RPD	Lab RPD
HHV	20200	20220	✓ 0%	✓ 0%
Batch No.:				
Page No.:				
Parameter	LCS	LCSD	RPD	Lab RPD
HHV				
Batch No.:				
Page No.:				
Parameter	LCS	LCSD	RPD	Lab RPD
HHV				

** Note: QAPP ≤2% RPD objective.

Evaluation of Precision - Sample Duplicate (per batch)

Batch No.:	88820			
Page No.:	18			
Parameter	Original	Duplicate	RPD	Lab RPD
HHV	11500	11490	✓ 0.1%	✓ 0.2%
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
HHV				
Batch No.:				
Page No.:				
Parameter	Original	Duplicate	RPD	Lab RPD
HHV				

** Note: Done for internal laboratory purposes only. ≤10% RPD objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-37218-1

Evaluation of Accuracy - LCS/LCSD (per batch)

Batch No.:	88820							
Page No.:	18							
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV	20600	20200	98%	98%	20600	20220	98%	98%
Batch No.:								
Page No.:								
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV								
Batch No.:								
Page No.:								
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV								

**Note: QAPP 98-102% recovery objective.

ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-37218-1

Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met?*	Page No.
Initial calibration	$\leq 1\%$ RSD	Yes	44,46
Calibration checks	$\pm 1\%$ difference from initial calibration	Yes	44,46

* Answer as "Yes" or "No". If not met, complete table(s) below.

Deviations on RSDs

Calibration standard	Relative Standard Deviation	ICV/CCV Batch	Samples Affected

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Sample Holding Time Check

Lab Sample No.	Sample ID	Chain of Custody Page No.	Analytes	Sample Results Page No.	Collected (mm/dd/yyyy)	Extracted (mm/dd/yyyy)	Duration (days)	Analyzed (mm/dd/yyyy)	Duration (days)
140-37232-1	M23 - NO.7 BOILER OUTLET - RUN 1 - COMBINED	3052	PCB	12	6/11/2024	6/27/2024	✓ 16	7/15/2024	✓ 18
			PAH	13	6/11/2024	6/27/2024	✓ 16	7/19/2024	✓ 22
140-37232-2	M23 - NO.7 BOILER OUTLET - RUN 2 - COMBINED	3052	PCB	15	6/11/2024	6/27/2024	✓ 16	7/16/2024	✓ 19
			PAH	16	6/11/2024	6/27/2024	✓ 16	7/20/2024	✓ 23
140-37232-3	M23 - NO.7 BOILER OUTLET - RUN 3 - COMBINED	3053	PCB	18	6/12/2024	6/27/2024	✓ 15	7/16/2024	✓ 19
			PAH	19	6/12/2024	6/27/2024	✓ 15	7/19/2024	✓ 22
140-37232-4	M23 - NO.7 BOILER OUTLET - RUN 4 - COMBINED	3053	PCB	21	6/12/2024	6/27/2024	✓ 15	7/16/2024	✓ 19
			PAH	22	6/12/2024	6/27/2024	✓ 15	7/19/2024	✓ 22
140-37232-5	M23 - NO.7 BOILER OUTLET - RUN 5 - COMBINED	3054	PCB	24	6/13/2024	6/27/2024	✓ 14	7/16/2024	✓ 19
			PAH	25	6/13/2024	6/27/2024	✓ 14	7/20/2024	✓ 23
140-37232-6	M23 - NO.7 BOILER OUTLET - RUN 6 - COMBINED	3054	PCB	27	6/13/2024	6/27/2024	✓ 14	7/16/2024	✓ 19
			PAH	28	6/13/2024	6/27/2024	✓ 14	7/20/2024	✓ 23
140-37232-7	M23 - NO.7 BOILER OUTLET - RUN 7 - COMBINED	3055	PCB	30	6/14/2024	6/27/2024	✓ 13	7/16/2024	✓ 19
			PAH	31	6/14/2024	6/27/2024	✓ 13	7/20/2024	✓ 23
140-37232-8	M23 - NO.7 BOILER OUTLET - RUN FB - COMBINED	3055	PCB	33	6/14/2024	6/27/2024	✓ 13	7/16/2024	✓ 19
			PAH	34	6/14/2024	6/27/2024	✓ 13	7/20/2024	✓ 23
140-37232-14	A -2232,A-2233 M23 MEDIA CHECK XAD,FILTER		PCB	36	6/11/2024	6/27/2024	✓ 16	7/16/2024	✓ 19
			PAH	37	6/11/2024	6/27/2024	✓ 16	7/19/2024	✓ 22

**Note: QAPP ≤30 day holding time to extraction, ≤40 day holding time from extraction to analysis objective. Holding time from extraction may be up to one year if samples are maintained below -10 C.

Were extracted samples maintained below -10 C?	Yes
--	-----

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Evaluation of Contamination Effects

Quality Control Sample	Criteria	Met? *	Page
Method blank	Per batch	Yes	46, 50
	< RL	No	46, 50
Reagent blank **	Per CPT	Yes	3049
	< RL	Archived	- - -
Field proof blank	Per CPT	Yes	33-34
	< RL	No	33-34

* Answer as "Yes" or "No". If not met, complete table(s) below.

** Typically only analyzed if field proof blank contamination is present.

Detail on Frequency Deviations

Quality Control Sample	Analysis Frequency

Detail on Contamination Effects

QC Sample	Analyte	Result	RL
Method blank	Naphthalene	1119	75.0
	Phenanthrene	18.18	6.00
	Fluoranthene	15.46	6.00
	Pyrene	55.75	6.00
Field proof blank	PCB-44	1.48	0.900
	PCB-52	0.411	0.300
	Phenanthrene	262	60.0

Evaluation of Precision - LCS/LCSD (One set per batch)

Batch No.:	88920		Batch No.:	88747	
Page No.:	52		Page No.:	48-49, 2902, 2967	
Analyte	RPD	RPD	Analyte	RPD	Lab RPD
Acenaphthylene	✓ 3	✓ 2	PCB-8	✓ 3	
Acenaphthene	✓ 4	✓ 4	PCB-18	✓ 0	
Anthracene	✓ 3	✓ 3	PCB-28	✓ 1	
Benz[a]anthracene	✓ 2	✓ 2	PCB-44	✓ 2	
Benzo[b]fluoranthene	✓ 0	✓ 0	PCB-52	✓ 1	
Benzo[k]fluoranthene	✓ 5	✓ 5	PCB-66	✓ 2	
Benzo[g,h,i]perylene	✓ 1	✓ 1	PCB-77	✓ 2	✓ 2
Benzo[a]pyrene	✓ 0	✓ 0	PCB-81	✓ 1	✓ 1
Benzo[e]pyrene	✓ 1	✓ 1	PCB-101	✓ 2	
Chrysene	✓ 0	✓ 0	PCB-105	✓ 1	✓ 1
Dibenz[a,h]anthracene	✓ 0	✓ 0	PCB-114	✓ 1	✓ 1
Fluoranthene	✓ 4	✓ 4	PCB-118	✓ 3	✓ 3
Fluorene	✓ 4	✓ 4	PCB-123	✓ 6	✓ 6
Indeno[1,2,3-cd]pyrene	✓ 2	✓ 2	PCB-126	✓ 0	✓ 0
2-Methylnaphthalene	✓ 6	✓ 6	PCB-128	✓ 2	
Naphthalene	✓ 17	✓ 17	PCB-138	✓ 1	
Perylene	✓ 2	✓ 2	PCB-153	✓ 2	
Phenanthrene	✓ 4	✓ 4	PCB-156	✓ 0	✓ 0
		✓ 6	PCB-157	✓ 0	✓ 0
			PCB-167	✓ 0	✓ 0
			PCB-169	✓ 2	✓ 2
			PCB-170	✓ 1	
			PCB-180	✓ 1	
			PCB-187	✓ 7	
			PCB-189	✓ 2	✓ 2
			PCB-195	✓ 1	
			PCB-206	✓ 1	✓ 1
			PCB-209	✓ 0	✓ 0

**Note: QAPP ≤25% RPD objective for PAHs, ≤50% RPD objective for PCBs.

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Evaluation of Accuracy - LCS (Two per batch)

Batch No.:					88920, 88747				
Page No.:					48-49, 52, 2902, 2967				
LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
Acenaphthylene	150	125.0	83%	83%	Acenaphthylene	150	121.9	81%	81%
Acenaphthene	150	141.4	94%	94%	Acenaphthene	150	135.5	90%	90%
Anthracene	150	131.1	87%	87%	Anthracene	150	126.8	85%	85%
Benz[a]anthracene	150	162.5	108%	108%	Benz[a]anthracene	150	160.0	107%	107%
Benzo[b]fluoranthene	150	143.0	95%	95%	Benzo[b]fluoranthene	150	142.3	95%	95%
Benzo[k]fluoranthene	150	132.3	88%	88%	Benzo[k]fluoranthene	150	138.9	93%	93%
Benzo[g,h,i]perylene	150	145.8	97%	97%	Benzo[g,h,i]perylene	150	146.7	98%	98%
Benzo[a]pyrene	150	129.5	86%	86%	Benzo[a]pyrene	150	129.1	86%	86%
Benzo[e]pyrene	150	146.0	97%	97%	Benzo[e]pyrene	150	144.6	96%	96%
Chrysene	150	160.9	107%	107%	Chrysene	150	161.0	107%	107%
Dibenz[a,h]anthracene	150	146.9	98%	98%	Dibenz[a,h]anthracene	150	147.5	98%	98%
Fluoranthene	150	159.9	107%	107%	Fluoranthene	150	153.2	102%	102%
Fluorene	150	147.0	98%	98%	Fluorene	150	140.8	94%	94%
Indeno[1,2,3-cd]pyrene	150	148.1	99%	99%	Indeno[1,2,3-cd]pyrene	150	144.5	96%	96%
2-Methylnaphthalene	150	163.8	109%	109%	2-Methylnaphthalene	150	153.8	103%	103%
Naphthalene	150	1224	816%	816%	Naphthalene	150	1037	691%	691%
Perylene	150	137.5	92%	92%	Perylene	150	135.0	90%	90%
Phenanthrene	150	164.4	110%	110%	Phenanthrene	150	158.6	106%	106%
Pyrene	150	202.9	135%	135%	Pyrene	150	135.0	90%	90%
PCB-8	15	14.00	93%		PCB-8	15	14.42	96%	
PCB-18	30	28.19	94%		PCB-18	30	28.12	94%	
PCB-28	30	28.01	93%		PCB-28	30	27.66	92%	
PCB-44	45	38.43	85%		PCB-44	45	37.51	83%	
PCB-52	15	12.81	85%		PCB-52	15	12.62	84%	
PCB-66	15	14.43	96%		PCB-66	15	14.19	95%	
PCB-77	15	13.34	89%	89%	PCB-77	15	13.57	90%	90%
PCB-81	15	13.65	91%	91%	PCB-81	15	13.54	90%	90%
PCB-101	45	44.01	98%		PCB-101	45	44.70	99%	
PCB-105	15	14.04	94%	94%	PCB-105	15	13.85	92%	92%
PCB-114	15	13.87	92%	92%	PCB-114	15	13.99	93%	93%
PCB-118	15	13.37	89%	89%	PCB-118	15	13.80	92%	92%
PCB-123	15	14.01	93%	93%	PCB-123	15	13.15	88%	88%
PCB-126	15	14.13	94%	94%	PCB-126	15	14.15	94%	94%
PCB-128	30	26.16	87%		PCB-128	30	26.73	89%	
PCB-138	60	53.12	89%		PCB-138	60	52.42	87%	
PCB-153	30	26.20	87%		PCB-153	30	25.75	86%	

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
PCB-156	30	28.29	94%	94%	PCB-156	30	28.43	95%	95%
PCB-157	30	28.29	94%	94%	PCB-157	30	28.43	95%	95%
PCB-167	15	13.90	93%	93%	PCB-167	15	13.86	92%	92%
PCB-169	15	14.12	94%	94%	PCB-169	15	13.79	92%	92%
PCB-170	15	13.58	91%		PCB-170	15	13.51	90%	
PCB-180	30	29.84	99%		PCB-180	30	30.29	101%	
PCB-187	15	13.79	92%		PCB-187	15	14.84	99%	
PCB-189	15	14.59	97%		PCB-189	15	14.28	95%	
PCB-195	15	14.03	94%		PCB-195	15	14.19	95%	
PCB-206	15	13.02	87%	87%	PCB-206	15	13.16	88%	88%
PCB-209	15	14.30	95%	95%	PCB-209	15	14.25	95%	95%

** Note: QAPP 60-140% recovery objective for PAHs, 60-135% recovery objective for PCBs.

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Evaluation of Accuracy - Extraction Standards (Isotope Dilution)

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C6N	C62MN	C6Acy	C6Ace	C6Fle	C6Fla	C3Pyr	C6BaA	C6Chr	C6BbF	C6BkF	C4BeP
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130
140-37232-1	41-45	56	56	81	74	93	94	89	60	64	82	85	78
140-37232-2	41-45	64	68	91	81	89	91	84	65	69	76	80	77
140-37232-3	41-45	62	63	90	84	89	92	89	60	63	67	83	63
140-37232-4	41-45	41	39	61	57	64	77	74	55	63	67	76	73
140-37232-5	41-45	48	52	70	65	73	79	72	61	63	69	75	69
140-37232-6	41-45	16	56	78	75	81	84	76	69	71	82	81	77
140-37232-7	41-45	59	61	86	79	87	84	80	71	72	80	89	80
140-37232-8	41-45	18	50	73	69	87	79	74	69	67	82	81	80
140-37232-14	41-45	65	63	85	78	90	59	61	40	40	59	57	58

C6N = 13C6-Naphthalene

C62MN = 13C6-2-Methylnaphthalene

C6Acy = 13C6-Acenaphthylene

C6Ace = 13C6-Acenaphthene

C6Fle = 13C6-Fluorene

C6Fla = 13C6-Fluoranthrene

C3Pyr = 13C3-Pyrene

C6BaA = 13C6-Benzo(a)anthracene

C6Chr = 13C6-Chrysene

C6BbF = 13C6-Benzo(b)fluoranthene

C6BkF = 13C6-Benzo(k)fluoranthene

C4BeP = 13C4-Benzo(e)pyrene

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C4BaP	PRY	IND	DBA	BghiP	AN	C6Ph	PCB1L	PCB3L	PCB4L	PCB15L	PCB19L
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-145	20-145	20-145	20-145	20-145
140-37232-1	41-45	87	85	72	81	70	92	87	61	73	70	72	77
140-37232-2	41-45	87	86	91	96	87	83	69	61	66	67	73	71
140-37232-3	41-45	85	85	81	89	80	84	81	58	67	68	72	76
140-37232-4	41-45	77	83	74	81	73	63	61	52	63	61	73	68
140-37232-5	41-45	76	74	87	88	77	71	63	59	68	70	77	76
140-37232-6	41-45	82	79	95	93	74	91	78	56	64	64	75	71
140-37232-7	41-45	92	91	94	109	95	81	71	55	64	64	70	71
140-37232-8	41-45	84	85	99	93	82	95	79	59	69	69	75	75
140-37232-14	41-45	58	61	50	48	46	33	29	77	73	74	74	71

C4BaP = 13C4-Benzo(a)pyrene

PRY = Perylene-d12

IND = 13C6-Indeno(1,2,3-cd)pyrene

DBA = 13C6-Dibenz(a,h)anthracene

BghiP = 13C12-Benzo(ghi)perylene

AN = 13C6-Anthracene

C6Ph = 13C6-Phenanthrene

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		PCB37L	PCB54L	PCB77L	PCB81L	PCB104L	PCB105L	PCB114L	PCB118L	PCB123L	PCB126L	PCB155L	PCB156L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-37232-1	41-45	80	94	84	83	95	100	100	92	95	99	87	94
140-37232-2	41-45	78	82	84	83	84	92	89	88	86	90	83	93
140-37232-3	41-45	73	95	81	81	92	98	95	88	91	91	85	95
140-37232-4	41-45	70	88	78	77	89	94	95	87	89	91	84	92
140-37232-5	41-45	75	94	81	81	96	98	107	95	94	96	89	106
140-37232-6	41-45	70	90	78	77	89	95	97	88	88	92	85	96
140-37232-7	41-45	70	89	76	76	91	92	98	89	89	88	85	98
140-37232-8	41-45	72	95	77	77	94	93	100	93	92	94	87	97
140-37232-14	41-45	75	80	82	79	76	84	80	81	80	87	76	89

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery										
		PCB157L	PCB167L	PCB169L	PCB170L	PCB188L	PCB189L	PCB202L	PCB205L	PCB206L	PCB208L	PCB209L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-37232-1	41-45	94	86	91	96	93	97	89	97	96	95	97
140-37232-2	41-45	93	88	92	92	89	90	89	91	97	90	107
140-37232-3	41-45	95	87	88	92	93	93	87	93	96	93	106
140-37232-4	41-45	92	83	85	91	98	90	90	93	96	93	104
140-37232-5	41-45	106	92	95	95	102	98	93	98	103	100	113
140-37232-6	41-45	96	88	88	92	97	93	90	95	98	93	109
140-37232-7	41-45	98	87	89	91	98	93	87	91	95	93	104
140-37232-8	41-45	97	87	90	92	100	94	89	96	100	94	111
140-37232-14	41-45	89	86	91	89	78	87	80	89	96	85	106

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Evaluation of Accuracy - Sampling Standards (Surrogate)

[illegible]

13C6BCF = 13C6-Benzo(c)fluorene

13C12BJF = 13C12-Benzo(j)fluoranthene

ANC = Anthracene-d10

USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-37232-1

Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met? *	Page No.
Initial calibration	Mean RRF \pm 10% RSD for unlabeled	Yes	461-462, 1667-1680
	Mean RRF \pm 20% RSD for labeled	Yes	462-463, 1680-1682
Calibration verification	Every 12 hours	Yes	979, 982, 985, 988, 3030, 3033
	RF \pm 25% from ICAL RRF for unlabeled	Yes	756, 789, 822, 855*, 2621-2627, 2726-2732
	RF \pm 25% from ICAL RRF for pre-sampling adsorbent standard	Yes	
	RF \pm 25% from ICAL RRF for pre-extraction filter standard	Yes	
	RF \pm 30% from ICAL RRF for pre-extraction standard and alternative standard	No	
Retention time window and column perf. Check	Beginning of each 12-hour analytical shift	Yes	979, 982, 985, 988, 3030, 3033
	Retention time Δ < 15 sec	Yes	765-767, 798-800, 831-833, 864-866, 2655-2672, 2760-2777
	Valley \leq 50% (PAHs), 60% (benzo[b]fluoranthene and benzo[k]fluoranthene), 40% (PCBs)	Yes	757-762, 790-795, 823-828, 856-861, 2534, 2535, 2537, 2538

* Answer as "Yes" or "No". If not met, complete table(s) below.

Deviations on Initial Calibrations

Sample ID	Calibration standard	RSD	Criteria

Deviations on Calibration Verifications

Sample ID	Calibration standard	RPD	Criteria
CCV 140-88999/1	13C6-Indeno(1,2,3-cd)pyrene	53.4%	30%
	13C6-Dibenz(a,h)anthracene	49.9%	30%

USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2594

Calibration Error Test

Date	06/11/2024				06/12/2024				06/13/2024				06/14/2024			
Runs	1-2				3-4				5-6				7			
Span (ppmv)	25				25				25				25			
Gas Range	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High
Actual calibration value (ppmv)	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50	0.00	7.50	12.50	21.50
Analyzer calibration response (ppmv)	0.03	7.45	12.45	21.50	0.00	7.46	12.46	21.48	0.07	7.52	12.53	21.48	0.04	7.38	12.52	21.48
Difference (ppmv)	0.03	-0.05	-0.05	0.00	0.00	-0.04	-0.04	-0.02	0.07	0.02	0.03	-0.02	0.04	-0.12	0.02	-0.02
Calibration error	---	✓-0.93%	✓-0.50%	---	---	✓-0.44%	✓-0.23%	---	---	✓-0.25%	✓0.10%	---	---	✓-1.85%	✓0.12%	---
Tester reported calibration error	---	✓-0.93%	✓-0.50%	---	---	✓-0.44%	✓-0.23%	---	---	✓-0.25%	✓0.10%	---	---	✓-1.85%	✓0.12%	---

USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2594

Drift Test

Run No:	1							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.45	12.31	✓ -0.56%	---	0.03	0.00	✓ -0.12%	---
Hour 2	12.31	12.27	✓ -0.16%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.27	12.37	✓ 0.40%	---	0.00	0.00	✓ 0.00%	---
Hour 4	12.37	12.32	✓ -0.20%	---	0.00	0.00	✓ 0.00%	---
Total Run	12.45	12.32	✓ -0.52%	✓ -0.52%	0.03	0.00	✓ -0.12%	✓ -0.12%
Run No:	2							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.32	12.36	✓ 0.16%	---	0.00	0.01	✓ 0.04%	---
Hour 2	12.36	12.34	✓ -0.08%	---	0.01	0.00	✓ -0.04%	---
Hour 3	12.34	12.34	✓ 0.00%	---	0.00	0.00	✓ 0.00%	---
Hour 4	12.34	12.29	✓ -0.20%	---	0.00	0.00	✓ 0.00%	---
Total Run	12.32	12.29	✓ -0.12%	✓ -0.12%	0.00	0.00	✓ 0.00%	✓ 0.00%
Run No:	3							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.46	12.35	✓ -0.44%	---	0.00	0.00	✓ 0.00%	---
Hour 2	12.35	12.37	✓ 0.08%	---	0.00	0.00	✓ 0.00%	---
Hour 3	12.37	12.42	✓ 0.20%	---	0.00	0.00	✓ 0.00%	---
Hour 4	12.42	12.56	✓ 0.56%	---	0.00	0.01	✓ 0.04%	---
Total Run	12.46	12.56	✓ 0.40%	✓ 0.40%	0.00	0.01	✓ 0.04%	✓ 0.04%
Run No:	4							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.56	12.66	✓ 0.40%	---	0.01	0.04	✓ 0.12%	---
Hour 2	12.66	12.77	✓ 0.44%	---	0.04	0.01	✓ -0.12%	---
Hour 3	12.77	12.72	✓ -0.20%	---	0.01	0.18	✓ 0.68%	---
Hour 4	12.72	12.65	✓ -0.28%	---	0.18	0.07	✓ -0.44%	---
Total Run	12.56	12.65	✓ 0.36%	✓ 0.36%	0.01	0.07	✓ 0.24%	✓ 0.24%

USEPA Method 25A - Hydrocarbons

Run No:	5							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.53	12.49	✓ -0.16%	---	0.07	0.16	✓ 0.36%	---
Hour 2	12.49	12.40	✓ -0.36%	---	0.16	0.05	✓ -0.44%	---
Hour 3	12.40	12.54	✓ 0.56%	---	0.05	0.14	✓ 0.36%	---
Hour 4	12.54	12.44	✓ -0.40%	---	0.14	0.07	✓ -0.28%	---
Total Run	12.53	12.44	✓ -0.36%	✓ -0.36%	0.07	0.07	✓ 0.00%	✓ 0.00%
Run No:	6							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.44	12.41	✓ -0.12%	---	0.07	0.28	✓ 0.84%	---
Hour 2	12.41	12.33	✓ -0.32%	---	0.28	0.01	✓ -1.08%	---
Hour 3	12.33	12.36	✓ 0.12%	---	0.01	0.09	✓ 0.32%	---
Hour 4	12.36	12.53	✓ 0.68%	---	0.09	0.07	✓ -0.08%	---
Total Run	12.44	12.53	✓ 0.36%	✓ 0.36%	0.07	0.07	✓ 0.00%	✓ 0.00%
Run No:	7							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	12.52	12.40	✓ -0.48%	---	0.04	0.00	✓ -0.16%	---
Hour 2	12.40	12.31	✓ -0.36%	---	0.00	0.01	✓ 0.04%	---
Hour 3	12.31	12.31	✓ 0.00%	---	0.01	0.00	✓ -0.04%	---
Hour 4	12.31	12.24	✓ -0.28%	---	0.00	0.00	✓ 0.00%	---
Total Run	12.52	12.24	✓ -1.12%	✓ -1.12%	0.04	0.00	✓ -0.16%	✓ -0.16%

** Note: Allowable calibration drift is 3 percent of calibration span.