

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

Coke Oven ICR Sampling Event #13

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

Analytical Report (2023EE108)

EPA Method 325B

1,3-Butadiene

Benzene

Ethylbenzene

m/p-Xylene

o-Xylene

Toluene



Enthalpy Analytical, LLC

Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com

800-1 Capitola Drive, Durham, NC 27713

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF). This report shall not be reproduced except in full without approval of the laboratory. This will provide assurance that parts of a report are not taken out of context.

A handwritten signature in black ink, appearing to be 'Am. King', with a large, stylized loop at the end.

Report Issued: 04/25/2023



Summary of Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

Summary

Sample Code	Tube ID	1,3-Butadiene (ug/m ³)	Flag	Benzene (ug/m ³)	Flag	Ethylbenzene (ug/m ³)	Flag	m-/p-Xylenes (ug/m ³)	Flag	o-Xylene (ug/m ³)	Flag	Toluene (ug/m ³)	Flag
USSCL-PT01-S-20230327	C00683		ND,Rc	31.7	Rc		ND,Rc		ND,Rc		ND,Rc	4.74	Rc
USSCL-PT02-S-20230327	B27912		ND,Rc	10.3	Rc		ND,Rc		ND,Rc		ND,Rc	3.07	Rc
USSCL-PT03-S-20230327	C02238		ND,Rc	20.9	Rc		ND,Rc		ND,Rc		ND,Rc	5.63	Rc
USSCL-PT04-S-20230327	B15246		ND,Rc	10.2	Rc		ND,Rc		ND,Rc		ND,Rc	4.81	Rc
USSCL-PT05-S-20230327	C17153		ND,Rc	6.53	Rc		ND,Rc		ND,Rc		ND,Rc	4.82	Rc
USSCL-PT06-S-20230327	B47071		ND,Rc	8.78	Rc		ND,Rc		ND,Rc		ND,Rc	12.8	Rc
USSCL-PT07-S-20230327	B52745		ND,Rc	3.26	Rc		ND,Rc		ND,Rc		ND,Rc	7.41	Rc
USSCL-PT08-S-20230327	B14157		ND,Rc	3.44	Rc		ND,Rc		ND,Rc		ND,Rc	6.96	Rc
USSCL-PT09-S-20230327	C17211		ND,Rc	6.71	Rc		ND,Rc	1.32	Rc		ND,Rc	8.90	Rc
USSCL-PT10-D-20230327	C01608		ND,Rc	12.3	Rc		ND,Rc	1.26	Rc		ND,Rc	11.2	Rc
USSCL-PT10-B-20230327	B52662		ND,Rc		ND,Rc		ND,Rc		ND,Rc		ND,Rc		ND,Rc
USSCL-PT10-S-20230327	C20408		ND,Rc	12.6	Rc		ND,Rc	1.41	Rc		ND,Rc	9.19	Rc
USSCL-PT11-S-20230327	B53223		ND,Rc	25.5	Rc		ND,Rc	1.56	Rc		ND,Rc	11.9	Rc
USSCL-PT12-S-20230327	C20400		ND,Rc	10.2	Rc		ND,Rc		ND,Rc		ND,Rc	4.88	Rc

ND: The analyte was not present above the Method Detection Limit

Rc: Recollection analysis

Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

1,3-Butadiene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683				46.3	0.437	21,497	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT02-S-20230327	B27912				46.3	0.437	21,499	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT03-S-20230327	C02238				46.3	0.437	21,498	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT04-S-20230327	B15246				46.3	0.437	21,499	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT05-S-20230327	C17153				46.3	0.437	21,500	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT06-S-20230327	B47071				46.3	0.437	21,500	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT07-S-20230327	B52745				46.3	0.437	21,501	0.569	0.569	0.258	0.258	ND,Rc
USSCL-PT08-S-20230327	B14157				46.3	0.437	21,454	0.571	0.571	0.258	0.258	ND,Rc
USSCL-PT09-S-20230327	C17211				46.3	0.437	21,455	0.571	0.571	0.258	0.258	ND,Rc
USSCL-PT10-D-20230327	C01608				46.3	0.437	21,459	0.570	0.570	0.258	0.258	ND,Rc
USSCL-PT10-B-20230327	B52662				46.3	0.437	21,458	0.570	0.570	0.258	0.258	ND,Rc
USSCL-PT10-S-20230327	C20408				46.3	0.437	21,458	0.570	0.570	0.258	0.258	ND,Rc
USSCL-PT11-S-20230327	B53223				46.3	0.437	21,463	0.570	0.570	0.258	0.258	ND,Rc
USSCL-PT12-S-20230327	C20400				46.3	0.437	21,464	0.570	0.570	0.258	0.258	ND,Rc

Enthalpy Analytical

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Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

Benzene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683	31.7	9.94	444	46.3	0.651	21,497	0.179	0.377	0.0560	0.118	Rc
USSCL-PT02-S-20230327	B27912	10.3	3.24	145	46.3	0.651	21,499	0.179	0.377	0.0560	0.118	Rc
USSCL-PT03-S-20230327	C02238	20.9	6.55	292	46.3	0.651	21,498	0.179	0.377	0.0560	0.118	Rc
USSCL-PT04-S-20230327	B15246	10.2	3.18	142	46.3	0.651	21,499	0.179	0.377	0.0560	0.118	Rc
USSCL-PT05-S-20230327	C17153	6.53	2.05	91.4	46.3	0.651	21,500	0.179	0.377	0.0560	0.118	Rc
USSCL-PT06-S-20230327	B47071	8.78	2.75	123	46.3	0.651	21,500	0.179	0.377	0.0560	0.118	Rc
USSCL-PT07-S-20230327	B52745	3.26	1.02	45.6	46.3	0.651	21,501	0.179	0.377	0.0560	0.118	Rc
USSCL-PT08-S-20230327	B14157	3.44	1.08	48.1	46.3	0.651	21,454	0.179	0.378	0.0561	0.118	Rc
USSCL-PT09-S-20230327	C17211	6.71	2.10	93.6	46.3	0.651	21,455	0.179	0.378	0.0561	0.118	Rc
USSCL-PT10-D-20230327	C01608	12.3	3.86	172	46.3	0.651	21,459	0.179	0.378	0.0561	0.118	Rc
USSCL-PT10-B-20230327	B52662				46.3	0.651	21,458	0.179	0.378	0.0561	0.118	ND,Rc
USSCL-PT10-S-20230327	C20408	12.6	3.94	176	46.3	0.651	21,458	0.179	0.378	0.0561	0.118	Rc
USSCL-PT11-S-20230327	B53223	25.5	7.98	356	46.3	0.651	21,463	0.179	0.377	0.0561	0.118	Rc
USSCL-PT12-S-20230327	C20400	10.2	3.20	143	46.3	0.651	21,464	0.179	0.377	0.0561	0.118	Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

Ethylbenzene

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683				46.3	0.447	21,497	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT02-S-20230327	B27912				46.3	0.447	21,499	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT03-S-20230327	C02238				46.3	0.447	21,498	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT04-S-20230327	B15246				46.3	0.447	21,499	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT05-S-20230327	C17153				46.3	0.447	21,500	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT06-S-20230327	B47071				46.3	0.447	21,500	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT07-S-20230327	B52745				46.3	0.447	21,501	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT08-S-20230327	B14157				46.3	0.447	21,454	1.13	1.13	0.261	0.261	ND,Rc
USSCL-PT09-S-20230327	C17211				46.3	0.447	21,455	1.13	1.13	0.261	0.261	ND,Rc
USSCL-PT10-D-20230327	C01608				46.3	0.447	21,459	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT10-B-20230327	B52662				46.3	0.447	21,458	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT10-S-20230327	C20408				46.3	0.447	21,458	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT11-S-20230327	B53223				46.3	0.447	21,463	1.13	1.13	0.260	0.260	ND,Rc
USSCL-PT12-S-20230327	C20400				46.3	0.447	21,464	1.13	1.13	0.260	0.260	ND,Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

m-/p-Xylenes

Sample Code	Tube ID	Conc (ug/m³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m³)	LOQ (ug/m³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683				46.3	0.447	21,497	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT02-S-20230327	B27912				46.3	0.447	21,499	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT03-S-20230327	C02238				46.3	0.447	21,498	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT04-S-20230327	B15246				46.3	0.447	21,499	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT05-S-20230327	C17153				46.3	0.447	21,500	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT06-S-20230327	B47071				46.3	0.447	21,500	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT07-S-20230327	B52745				46.3	0.447	21,501	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT08-S-20230327	B14157				46.3	0.447	21,454	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT09-S-20230327	C17211	1.32	0.303	12.6	46.3	0.447	21,455	1.14	1.14	0.262	0.262	Rc
USSCL-PT10-D-20230327	C01608	1.26	0.290	12.1	46.3	0.447	21,459	1.14	1.14	0.262	0.262	Rc
USSCL-PT10-B-20230327	B52662				46.3	0.447	21,458	1.14	1.14	0.262	0.262	ND,Rc
USSCL-PT10-S-20230327	C20408	1.41	0.325	13.5	46.3	0.447	21,458	1.14	1.14	0.262	0.262	Rc
USSCL-PT11-S-20230327	B53223	1.56	0.359	14.9	46.3	0.447	21,463	1.14	1.14	0.262	0.262	Rc
USSCL-PT12-S-20230327	C20400				46.3	0.447	21,464	1.14	1.14	0.262	0.262	ND,Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

o-Xylene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683				46.3	0.447	21,497	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT02-S-20230327	B27912				46.3	0.447	21,499	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT03-S-20230327	C02238				46.3	0.447	21,498	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT04-S-20230327	B15246				46.3	0.447	21,499	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT05-S-20230327	C17153				46.3	0.447	21,500	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT06-S-20230327	B47071				46.3	0.447	21,500	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT07-S-20230327	B52745				46.3	0.447	21,501	1.14	1.14	0.263	0.263	ND,Rc
USSCL-PT08-S-20230327	B14157				46.3	0.447	21,454	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT09-S-20230327	C17211				46.3	0.447	21,455	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT10-D-20230327	C01608				46.3	0.447	21,459	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT10-B-20230327	B52662				46.3	0.447	21,458	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT10-S-20230327	C20408				46.3	0.447	21,458	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT11-S-20230327	B53223				46.3	0.447	21,463	1.14	1.14	0.264	0.264	ND,Rc
USSCL-PT12-S-20230327	C20400				46.3	0.447	21,464	1.14	1.14	0.264	0.264	ND,Rc

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

Toluene

Sample Code	Tube ID	Conc (ug/m ³)	Conc (ppbv)	Calc Amt (ng)	Temp (°F)	Uptake Rate (mL/min)	Sample Time (min)	LOD (ug/m ³)	LOQ (ug/m ³)	LOD (ppbv)	LOQ (ppbv)	Flags
USSCL-PT01-S-20230327	C00683	4.74	1.26	51.4	46.3	0.505	21,497	1.01	1.01	0.268	0.268	Rc
USSCL-PT02-S-20230327	B27912	3.07	0.815	33.3	46.3	0.505	21,499	1.01	1.01	0.268	0.268	Rc
USSCL-PT03-S-20230327	C02238	5.63	1.50	61.1	46.3	0.505	21,498	1.01	1.01	0.268	0.268	Rc
USSCL-PT04-S-20230327	B15246	4.81	1.28	52.2	46.3	0.505	21,499	1.01	1.01	0.268	0.268	Rc
USSCL-PT05-S-20230327	C17153	4.82	1.28	52.3	46.3	0.505	21,500	1.01	1.01	0.268	0.268	Rc
USSCL-PT06-S-20230327	B47071	12.8	3.41	139	46.3	0.505	21,500	1.01	1.01	0.268	0.268	Rc
USSCL-PT07-S-20230327	B52745	7.41	1.97	80.4	46.3	0.505	21,501	1.01	1.01	0.268	0.268	Rc
USSCL-PT08-S-20230327	B14157	6.96	1.85	75.4	46.3	0.505	21,454	1.01	1.01	0.268	0.268	Rc
USSCL-PT09-S-20230327	C17211	8.90	2.36	96.4	46.3	0.505	21,455	1.01	1.01	0.268	0.268	Rc
USSCL-PT10-D-20230327	C01608	11.2	2.97	121	46.3	0.505	21,459	1.01	1.01	0.268	0.268	Rc
USSCL-PT10-B-20230327	B52662				46.3	0.505	21,458	1.01	1.01	0.268	0.268	ND,Rc
USSCL-PT10-S-20230327	C20408	9.19	2.44	99.5	46.3	0.505	21,458	1.01	1.01	0.268	0.268	Rc
USSCL-PT11-S-20230327	B53223	11.9	3.15	129	46.3	0.505	21,463	1.01	1.01	0.268	0.268	Rc
USSCL-PT12-S-20230327	C20400	4.88	1.30	52.9	46.3	0.505	21,464	1.01	1.01	0.268	0.268	Rc

ND: The analyte was not present above the Method Detection Limit

Rc: Recollection analysis

QC

Enthalpy Analytical

Company: All4, Inc.
Job No.: 2023EE108-1 EPA Method 325B Analysis
Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

QC Samples

Field Sample Type	Sample Code	1,3-Butadiene		Benzene		Ethylbenzene		m-/p-Xylenes		o-Xylene		Toluene	
Blanks (ug/m³)	USSCL-PT10-B-20230327	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass
Duplicates (difference)	USSCL-PT10-D-20230327		Pass	2.0%	Pass		Pass	11%	Pass		Pass	20%	Pass

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Site	US Steel Corp - Clairton Works ICR
Project	00701-0002.00
Report #	2023EE108

Custody	<p>Sarah Roberts of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 04/12/2023. The tubes were received in good condition at a temperature of 17.8 °C.</p> <p>Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, LLC.</p>
Analysis	<p>The thermal desorption tube samples were analyzed for benzene, 1,3-butadiene, toluene, ethylbenzene, m/p-xylene, and o-xylene using EPA Method 325B, Volatile Organic Compounds from Fugitive and Area Sources by Thermal Desorption and GC/MS.</p> <p>The Agilent Technologies Model 8890, Gas Chromatograph "Voldemort" (S/N US2215A022) was equipped with a 5977 Mass Selective Detector (S/N US2210M022) for these analyses.</p> <p>The Perkin-Elmer ATD-650 Thermal Desorber introduced the samples and standards to the analyzer.</p>
Chromatographic Conditions	<p>A copy of the acquisition method (M325B-TD-CRYO9.M) is not included in this report but may be available upon request.</p>
Calibration	<p>The lowest calibration level for ICAL V033023A_BUT_BTEX did not meet method criteria for Toluene, Ethylbenzene, m-/p-Xylene, or o-Xylene and was excluded from the calibration. This results in the LOQ (Limit of Quantitation) being elevated for these analytes. The integrity of the reported data is not compromised. The initial calibration (V033023A_BUT_BTEX) met all other 30% RSD criteria.</p> <p>All BFB criteria have been met for this analysis. The initial calibration verification met 30% recovery criteria. The continuing calibration verifications met 30% difference criteria. The initial and continuing calibration raw data are not included in this report but are available upon request.</p>
QC Notes	<p>All internal standard response and retention time criteria were met for these analyses.</p> <p>The field blank and lab (method) blank met the requirements of the method.</p> <p>The duplicate samples met the 30% difference criterion specified by the method.</p>



Enthalpy Analytical Narrative Summary (continued)

Reporting Notes

A portion of each sample (or calibration standard) was recollected onto the original sample tube after internal standard was added in the initial analysis to allow for reanalysis if necessary. An "Rc" flag indicates that a reanalysis has been performed and the resulting data have been included in the report.

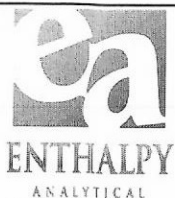
As specified in EPA Method 325B, the response factor of the daily continuing calibration standard was used to quantitate all field samples and blanks.

All samples were reported as amount in ng catch, and concentration in $\mu\text{g}/\text{m}^3$ and ppbv.

The results presented in this report are representative of the samples as provided to the laboratory.

These analyses met the requirements of the TNI Standard. Any deviations from the requirements of the reference method or TNI Standard have been stated above.

Sample Custody

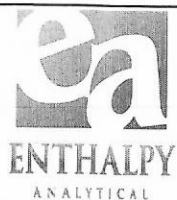


EPA Method 325 A/B
Field Test Data Sheet and
Chain of Custody Record

Page # 1 of 2 #

- ☒ Standard Turn Around Time (10 business days)
☐ Rush Turn Around Time
• All TATs Subject to Approval by Enthalpy Analytical, Inc.
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

Site Name: US Steel Corp-Clairton Works			Client Name: ALL4 LLC			PO#:			
Site Address: 400 State Street			Project Number: 00701-0002.00			Sample Event #			
City: Clairton			Project Manager: Dustin Share			Sorbent:			
State: PA			Email Address: dshare@all4inc.com						
Zip: 15025			Telephone #: (610) 422-1126						
Location	Sample ID (Tube ID)	Sample, Blank or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Deployed/Collected by	Ave. Pressure (inHg)	Avg. Ambient Temp. (°F)
PT01-230327-S	C00683	S	23/03/27	9:54 AM	23/04/11	8:11 AM	SLR		
PT02-230327-S	B27912	S	23/03/27	9:57 AM	23/04/11	8:16 AM	SLR		
PT03-230327-S	C02238	S	23/03/27	10:01 AM	23/04/11	8:19 AM	SLR		
PT04-230327-S	B15246	S	23/03/27	10:04 AM	23/04/11	8:23 AM	SLR		
PT05-230327-S	C17153	S	23/03/27	10:08 AM	23/04/11	8:28 AM	SLR		
PT06-230327-S	B47071	S	23/03/27	10:16 AM	23/04/11	8:36 AM	SLR		
PT07-230327-S	B52745	S	23/03/27	10:12 AM	23/04/11	8:33 AM	SLR		
PT08-230327-S	B14157	S	23/03/27	11:11 AM	23/04/11	8:45 AM	SLR		
Relinquished By (printed): Stacy Arner			Relinquished By (signature):			Relinquished Date: 23/04/11		Relinquished Time: 12:45 pm	
Received By (printed): Sarah Roberts			Received By (signature):			Receipt Date: 4/12/23		Receipt Time: 10:00	
Sample Condition Upon Receipt: GOOD			Compound List:			Custody Seal intact? Y/N: Yes		Delivery tracking #	
Ice Temp: 9.3			Blank Temp: 17.8			Add Custody Seal # below: 22M02121			
FLUKE 3									
Comments: PT09 diffusion cap was missing when the sample was collected.									
800-1 Capitola Drive • Durham, NC 27713 • (919) 850-4392 • FAX (919) 850-9012 • www.enthalpy.com									



EPA Method 325 A/B
Field Test Data Sheet and
Chain of Custody Record

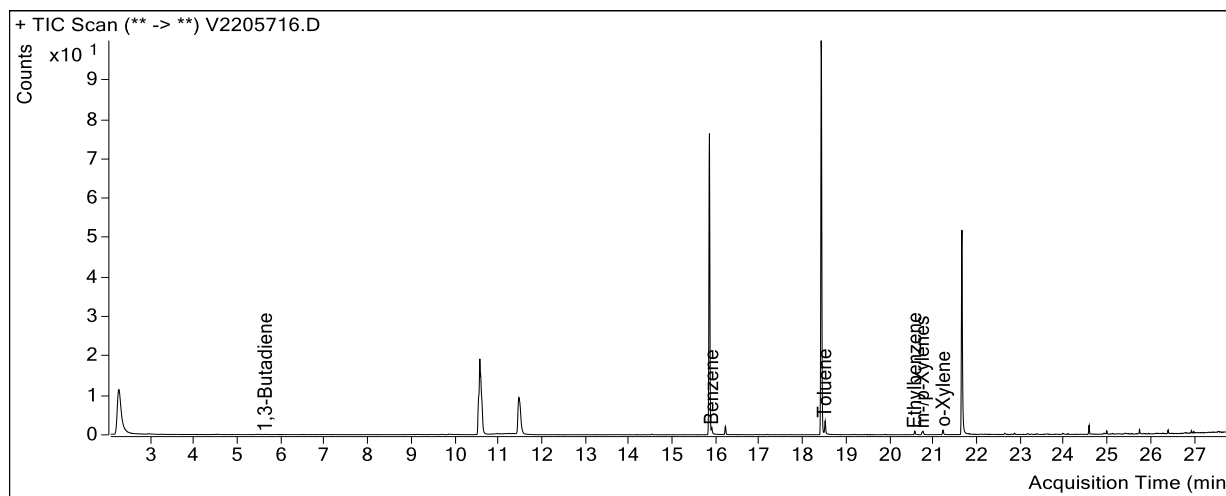
Page # 2 of 2 #

- ☒ Standard Turn Around Time (10 business days)
☐ Rush Turn Around Time
• All TATs Subject to Approval by Enthalpy Analytical, Inc.
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

Site Name: US Steel Corp - Clairton Works			Client Name: ALL4 LLC			PO#:			
Site Address: 400 State Street			Project Number: 00701-0002.00			Sample Event #			
City: Clairton			Project Manager: Dustin Snare			Sorbent:			
State: PA			Email Address: dsnare@all4inc.com						
Zip: 15025			Telephone #: (610) 422-1126						
Location	Sample ID (Tube ID)	Sample, Blank or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Deployed/Collected by	Ave. Pressure (inHg)	Avg. Ambient Temp. (°F)
PT09-230327-S	C17211	S	23/03/27	11:14 AM	23/04/11	8:49 AM	SKG		
PT10-230327-D	C01608	D	23/03/27	11:20 AM	23/04/11	8:59 AM	SKG		
PT10-230327-B	B526602	B	23/03/27	11:21 AM	23/04/11	8:59 AM	SKG		
PT10-230327-S	C20408	S	23/03/27	11:22 AM	23/04/11	9:00 AM	SKG		
PT11-230327-S	B53223	S	23/03/27	11:25 AM	23/04/11	9:08 AM	SKG		
PT12-230327-S	C20400	S	23/03/27	11:27 AM	23/04/11	9:11 AM	SKG		
							/		
							/		
Relinquished By (printed): Stacy Arner			Relinquished By (signature):			Relinquished Date: 23/04/11		Relinquished Time: 12:45pm	
Received By (printed): Sarah Roberts			Received By (signature):			Receipt Date: 4/12/23		Receipt Time: 10:00	
Sample Condition Upon Receipt: GOOD			Compound List:			Custody Seal intact? Y/N: Yes		Delivery tracking #	
Ice Temp: 9.3	Blank Temp: 17.8	FLUKE 3				Add Custody Seal # below: 22 M 02121			
Comments: PT09 diffusion cap was missing when the sample was collected.									
800-1 Capitola Drive • Durham, NC 27713 • (919) 850-4392 • FAX (919) 850-9012 • www.enthalpy.com									

Sample Chromatograms

Sample Name : 2023EE108 Method Blank-1
Sample Info : B38598; Recollect
Data File : V2205716.D
Acquisition Date : 2023-04-21 15:37:32
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

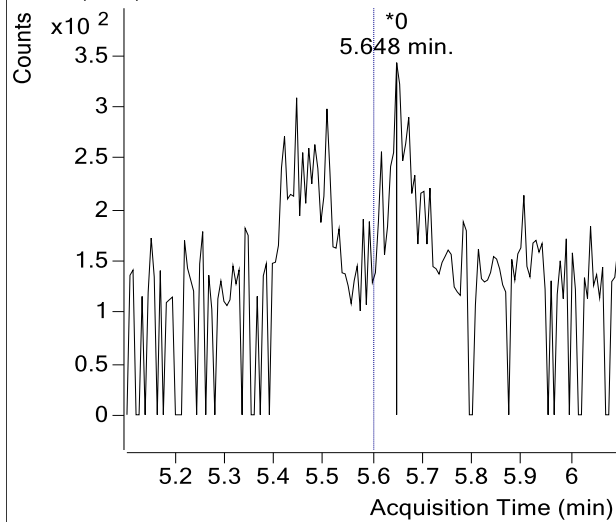


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	827,002	
Benzene	15.90	18,041	m
Toluene-d8 (IS)	18.42	790,791	
Toluene	18.51	26,991	
Ethylbenzene	20.57	9,740	
m-/p-Xylenes	20.75	11,466	
o-Xylene	21.21	9,807	

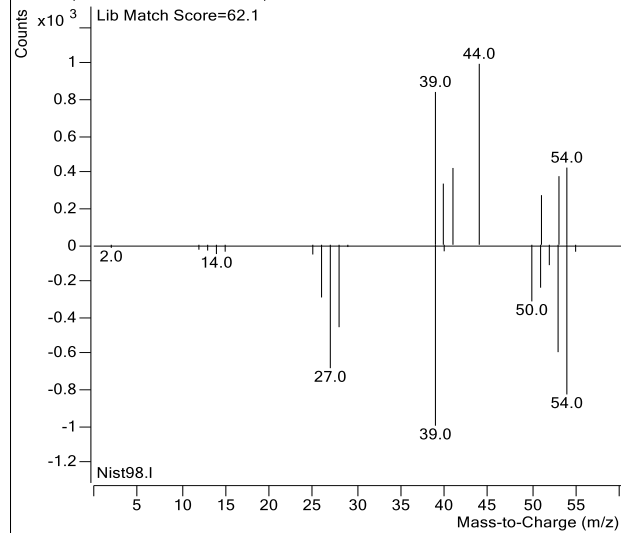
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205716.D

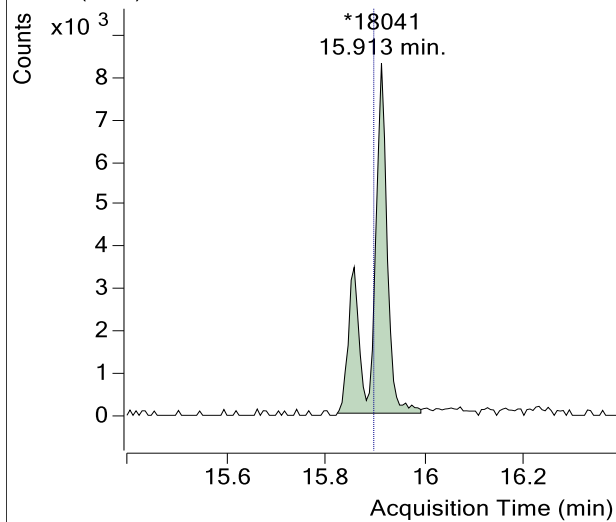


+ Scan (5.648-5.648 min, 1 scans) V2205716.D

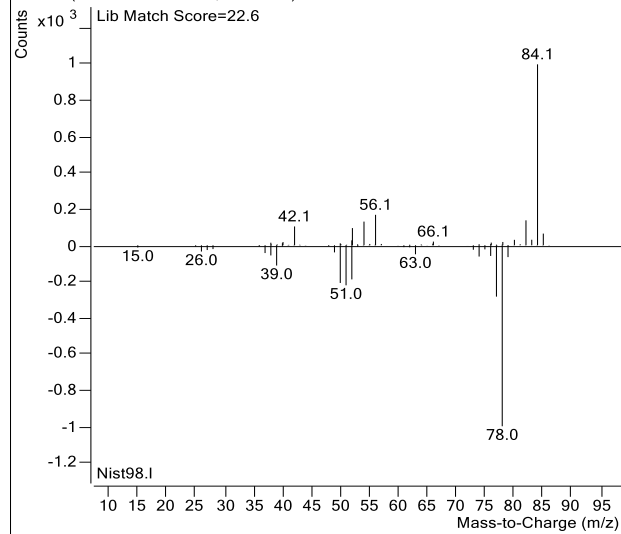


Benzene

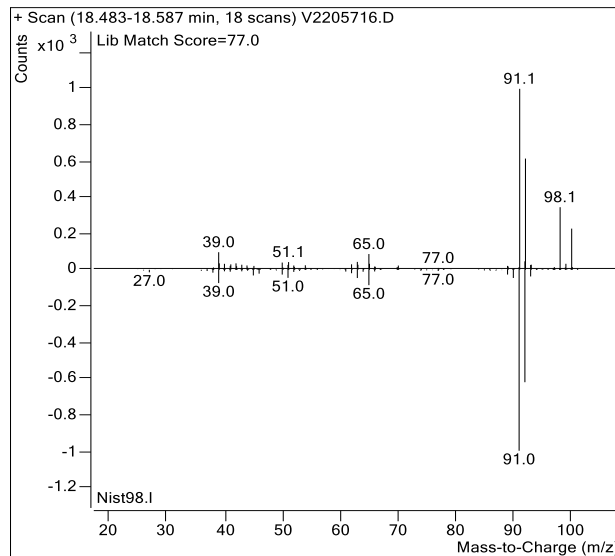
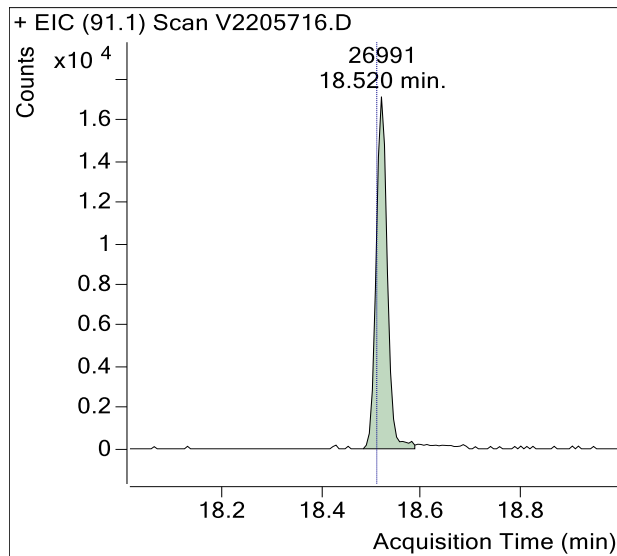
+ EIC (78.1) Scan V2205716.D



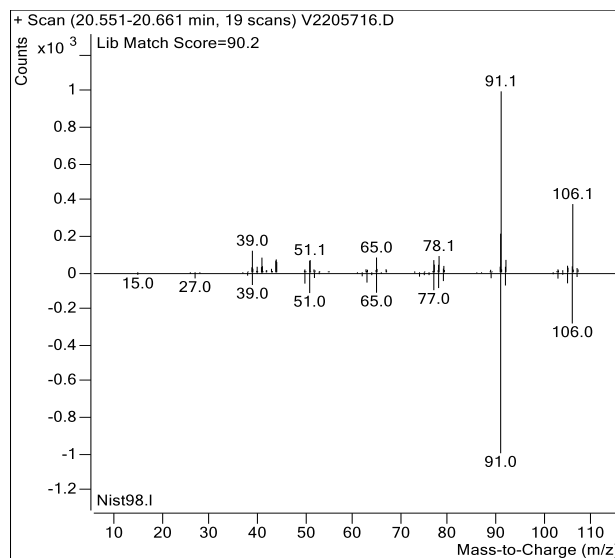
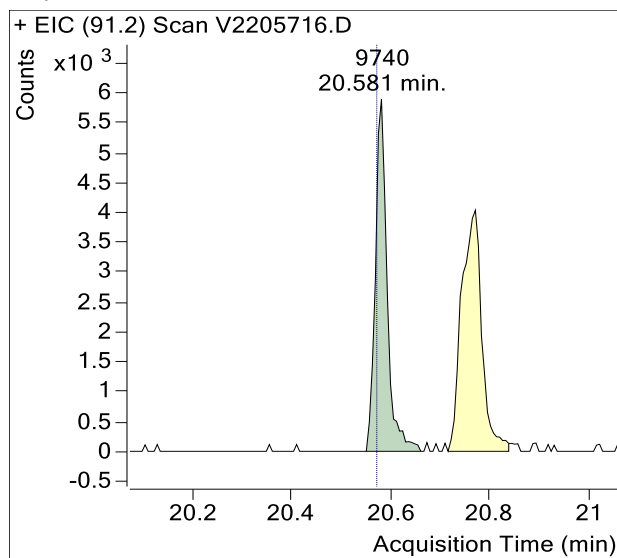
+ Scan (15.824-15.993 min, 28 scans) V2205716.D



Toluene

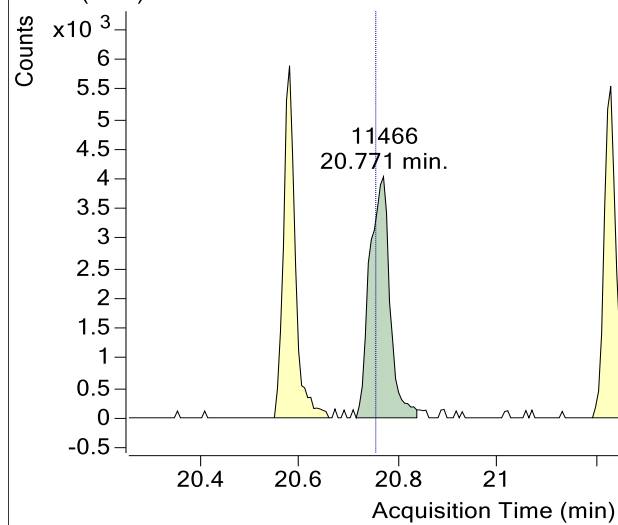


Ethylbenzene

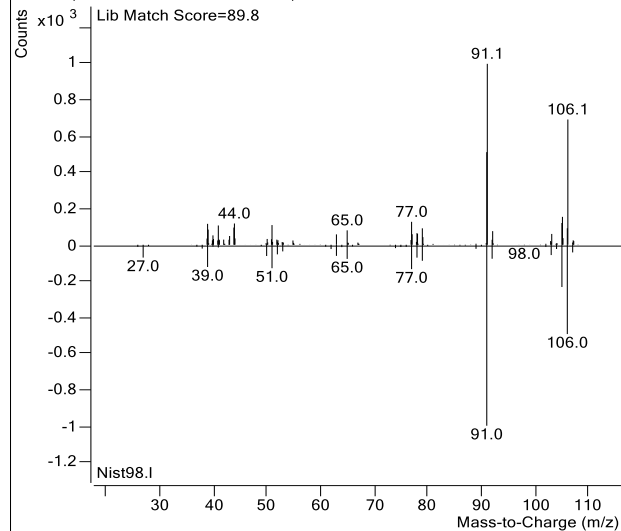


m-/p-Xylenes

+ EIC (91.1) Scan V2205716.D

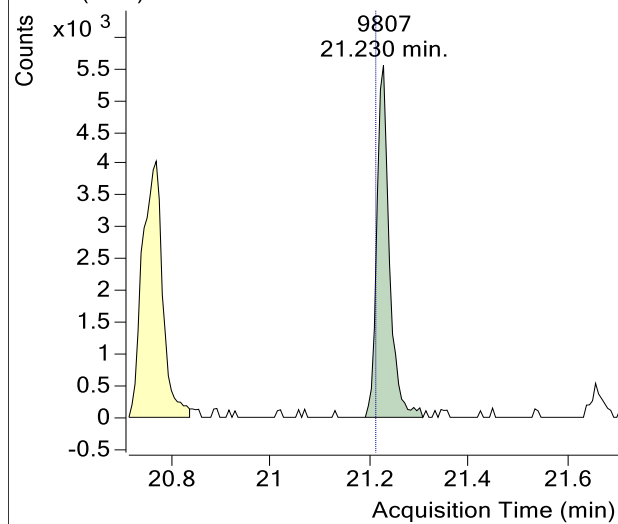


+ Scan (20.716-20.838 min, 21 scans) V2205716.D

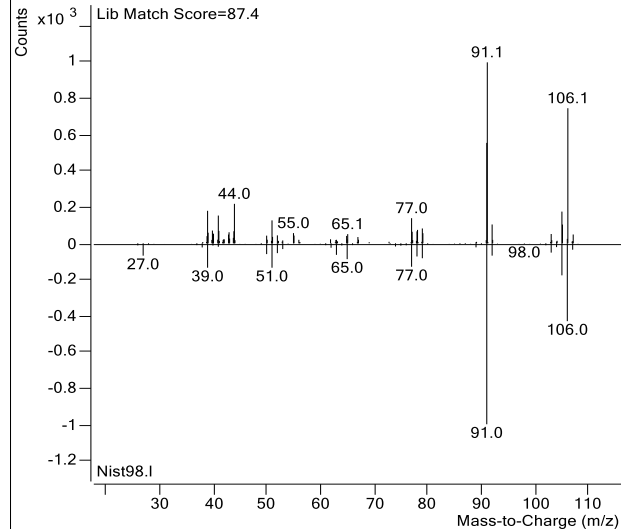


o-Xylene

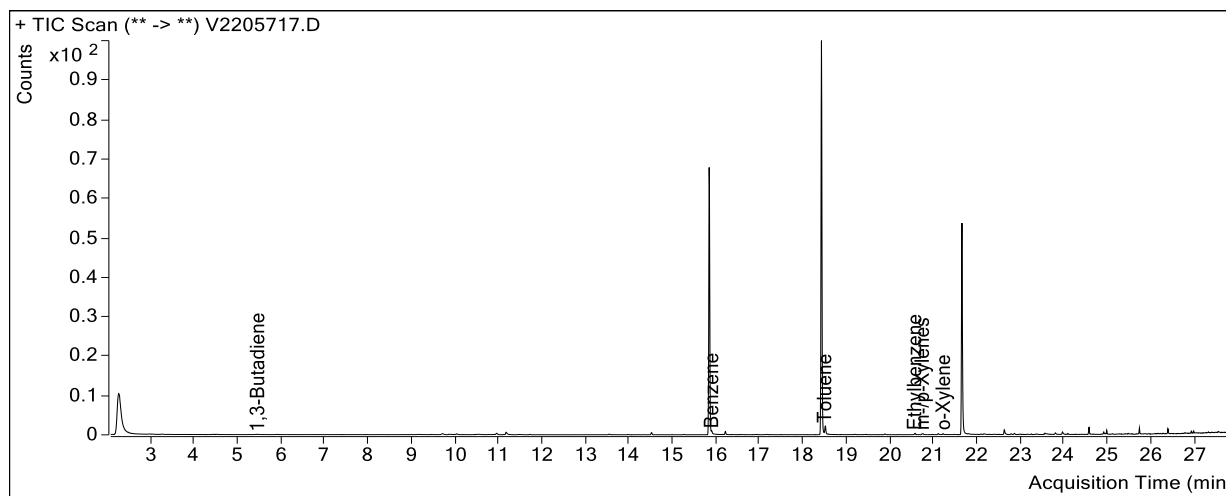
+ EIC (91.2) Scan V2205716.D



+ Scan (21.193-21.309 min, 19 scans) V2205716.D



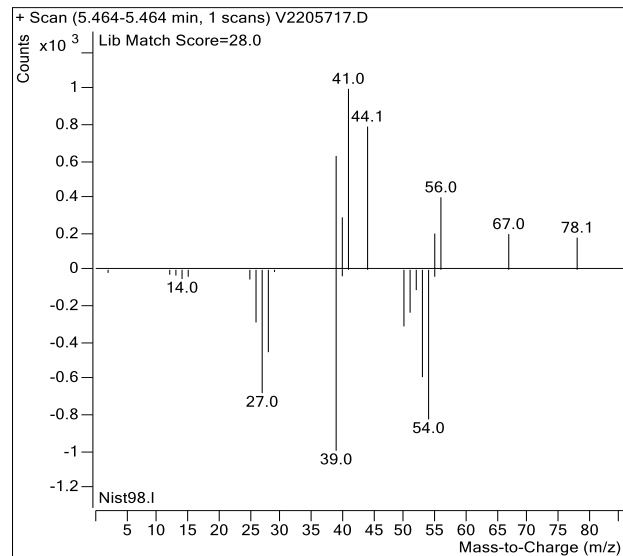
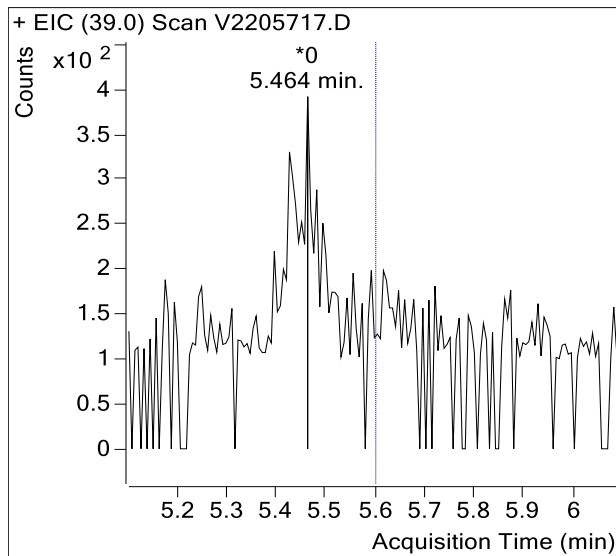
Sample Name : USSCL-PT10-B-20230327
Sample Info : B52662; Recollect
Data File : V2205717.D
Acquisition Date : 2023-04-21 16:20:27
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



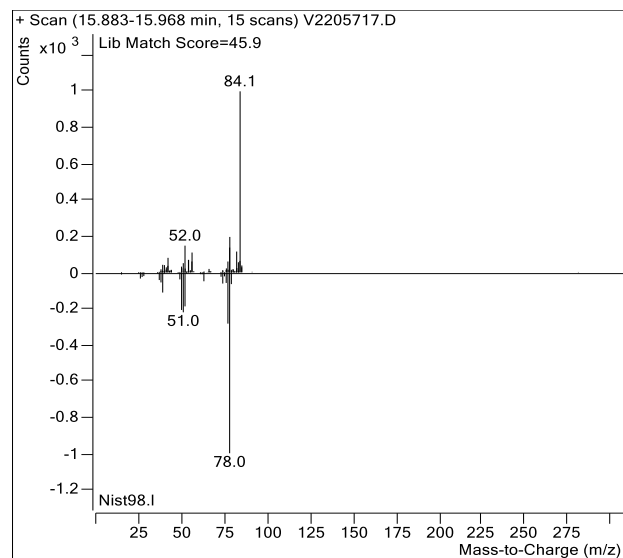
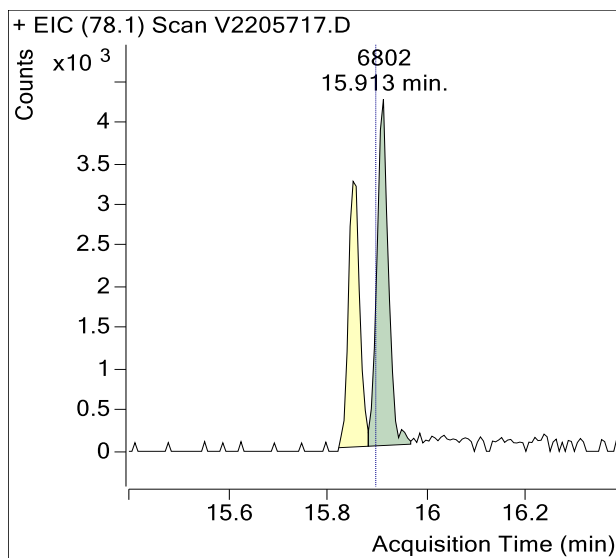
Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	828,265	
Benzene	15.90	6,802	
Toluene-d8 (IS)	18.42	835,470	
Toluene	18.51	18,643	
Ethylbenzene	20.57	4,438	
m-/p-Xylenes	20.75	3,987	
o-Xylene	21.21	2,279	

(m)=Manual Integration

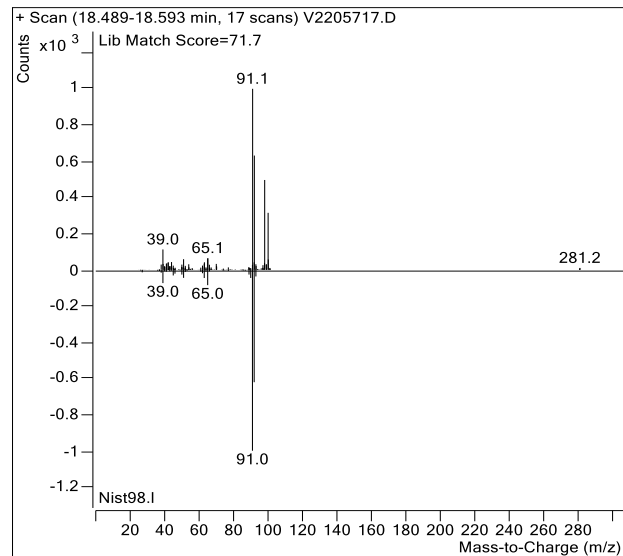
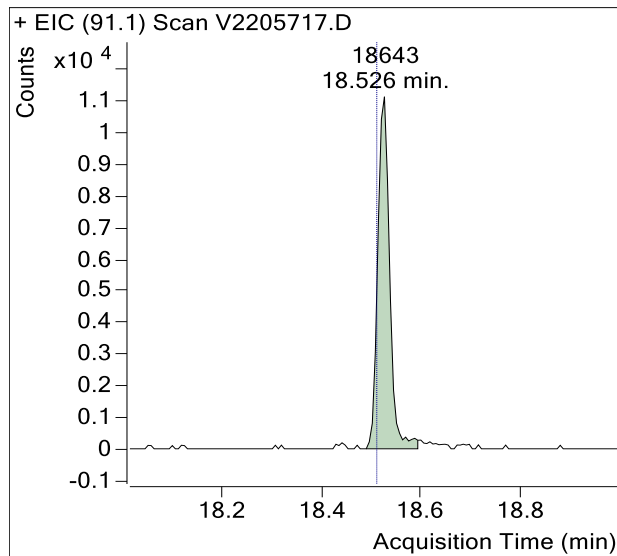
1,3-Butadiene



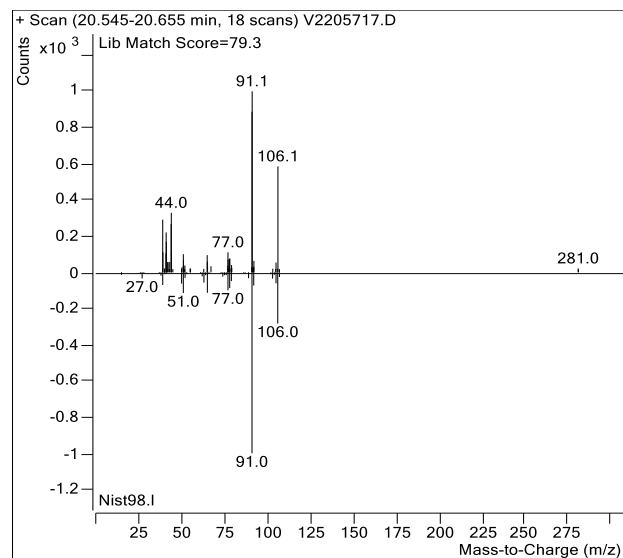
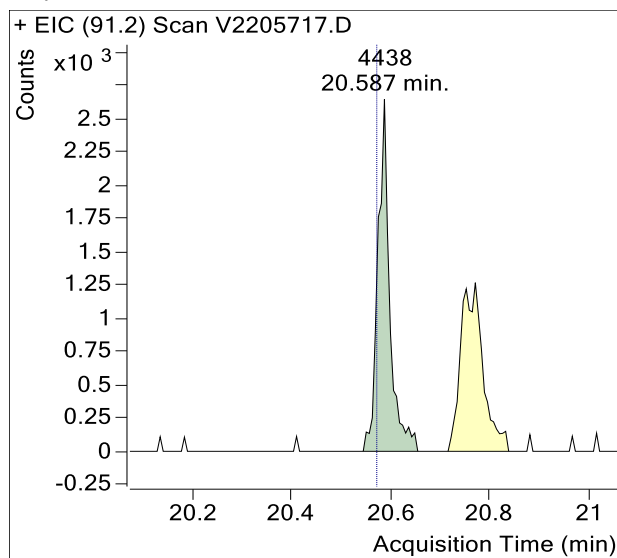
Benzene



Toluene

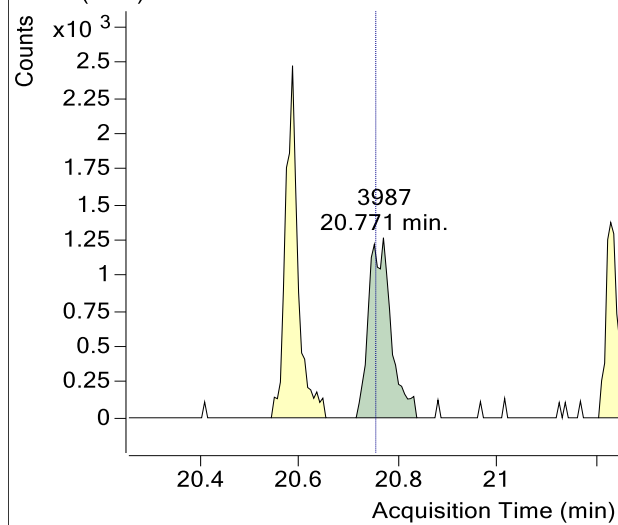


Ethylbenzene

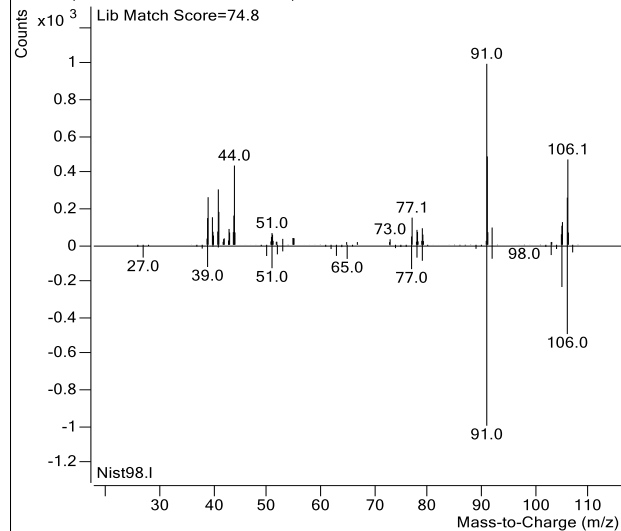


m-/p-Xylenes

+ EIC (91.1) Scan V2205717.D

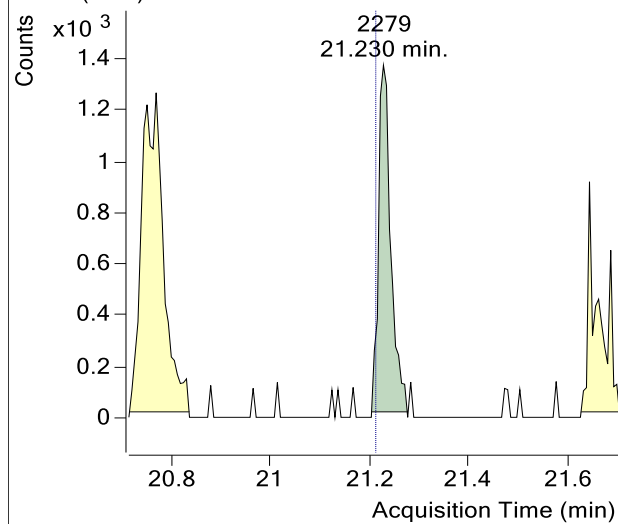


+ Scan (20.716-20.838 min, 20 scans) V2205717.D

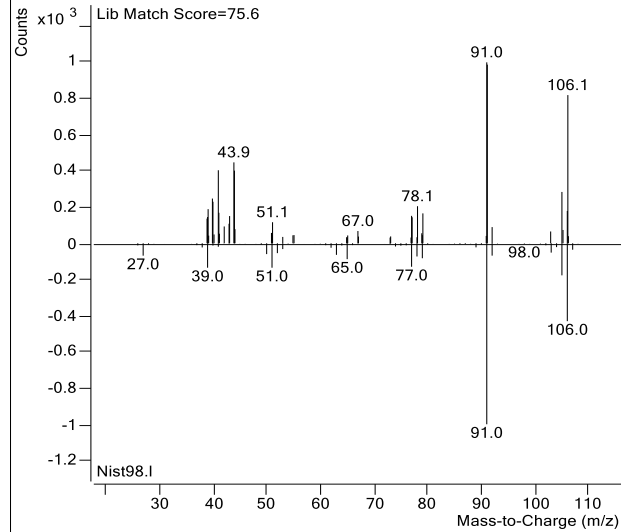


o-Xylene

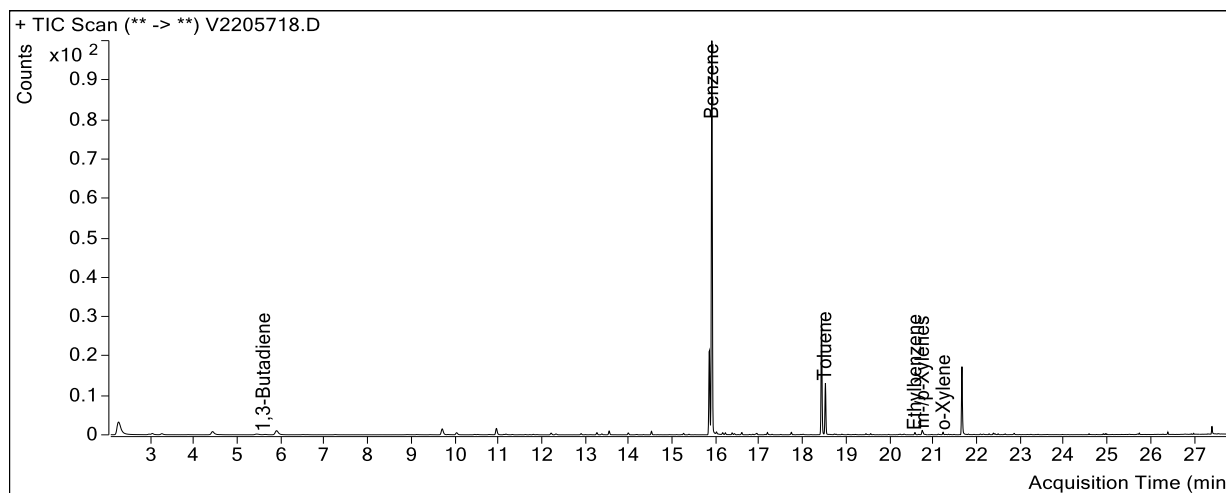
+ EIC (91.2) Scan V2205717.D



+ Scan (21.206-21.278 min, 12 scans) V2205717.D



Sample Name : USSCL-PT01-S-20230327
Sample Info : C00683; Recollect
Data File : V2205718.D
Acquisition Date : 2023-04-21 17:04:35
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

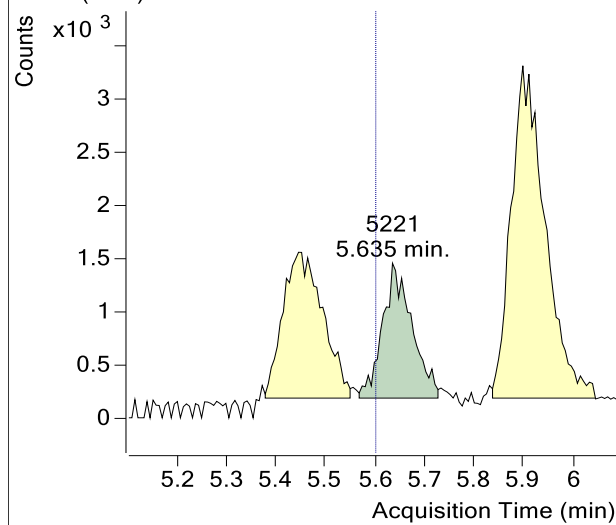


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	5,221	
Benzene-d6 (IS)	15.84	867,483	
Benzene	15.90	3,721,768	
Toluene-d8 (IS)	18.42	817,353	
Toluene	18.51	389,663	
Ethylbenzene	20.57	19,175	
m-/p-Xylenes	20.75	41,654	
o-Xylene	21.21	15,768	

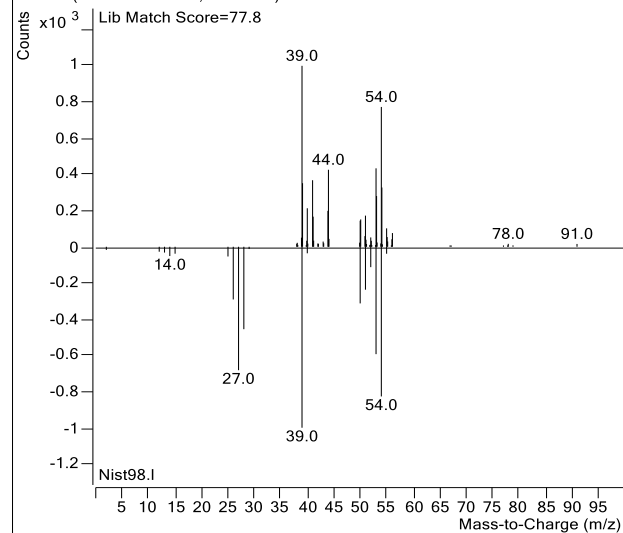
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205718.D

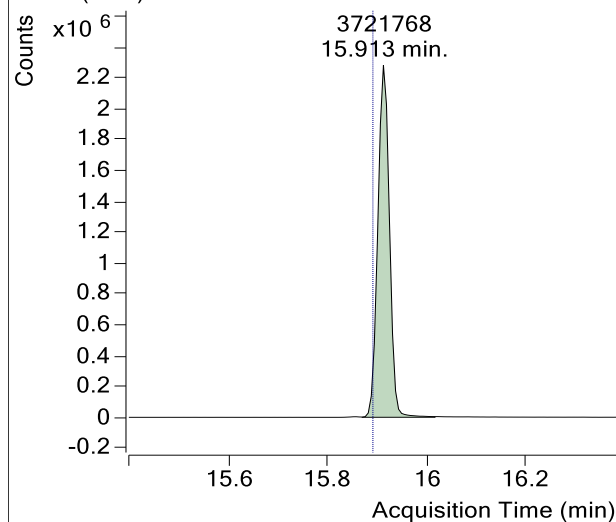


+ Scan (5.568-5.727 min, 27 scans) V2205718.D

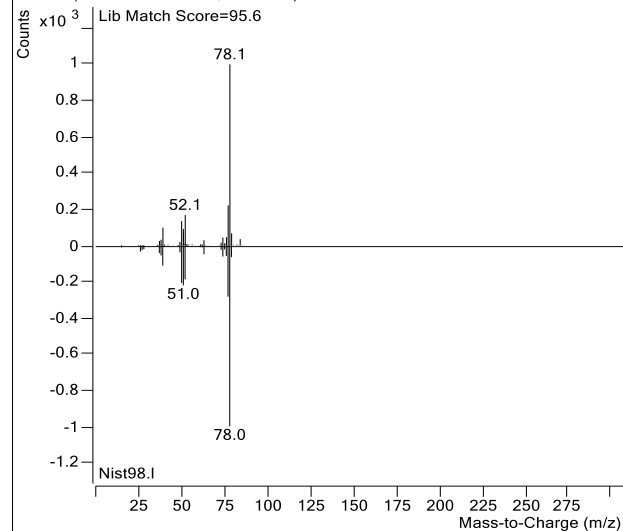


Benzene

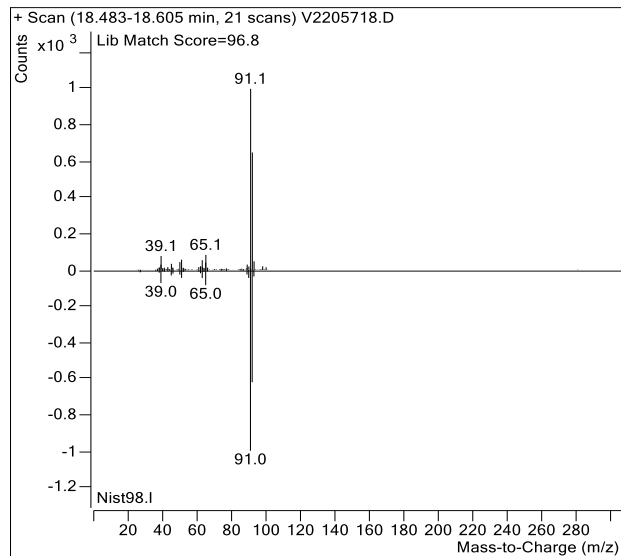
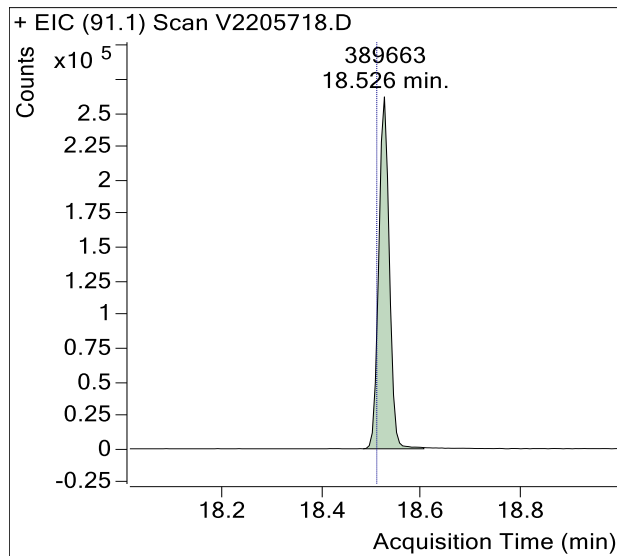
+ EIC (78.1) Scan V2205718.D



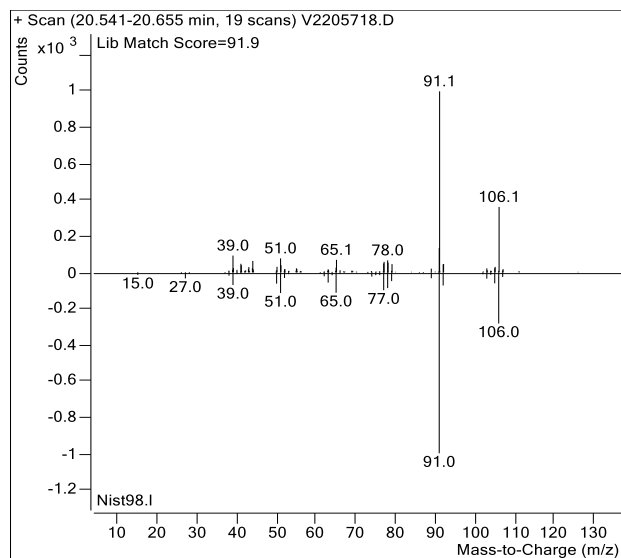
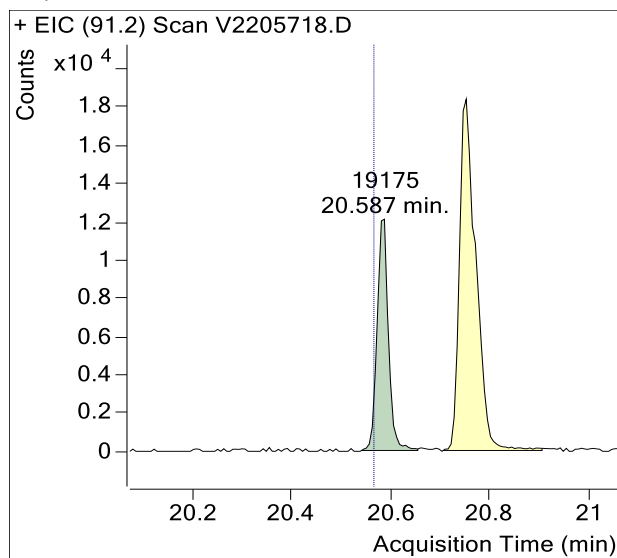
+ Scan (15.871-16.017 min, 25 scans) V2205718.D



Toluene

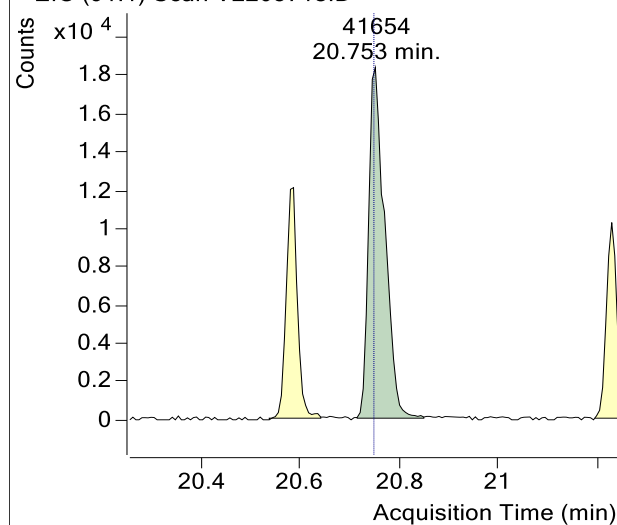


Ethylbenzene

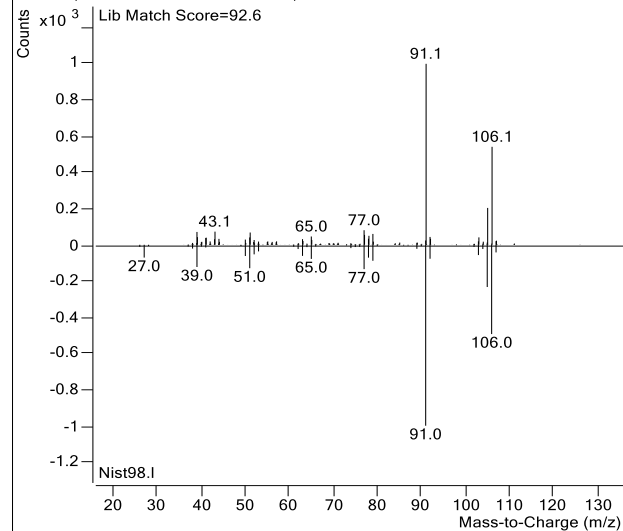


m-/p-Xylenes

+ EIC (91.1) Scan V2205718.D

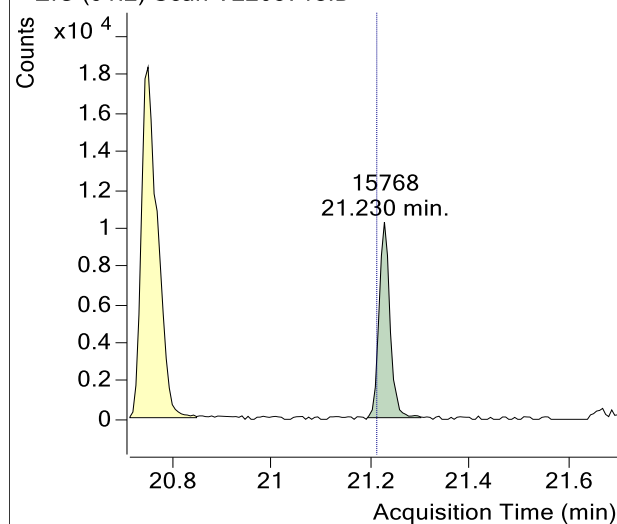


+ Scan (20.716-20.850 min, 22 scans) V2205718.D

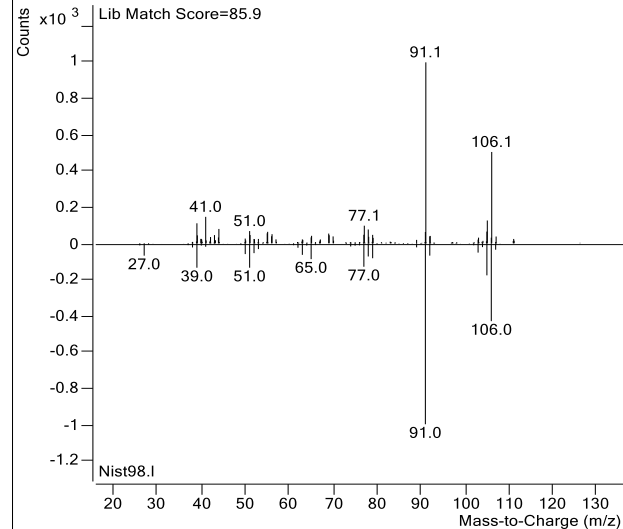


o-Xylene

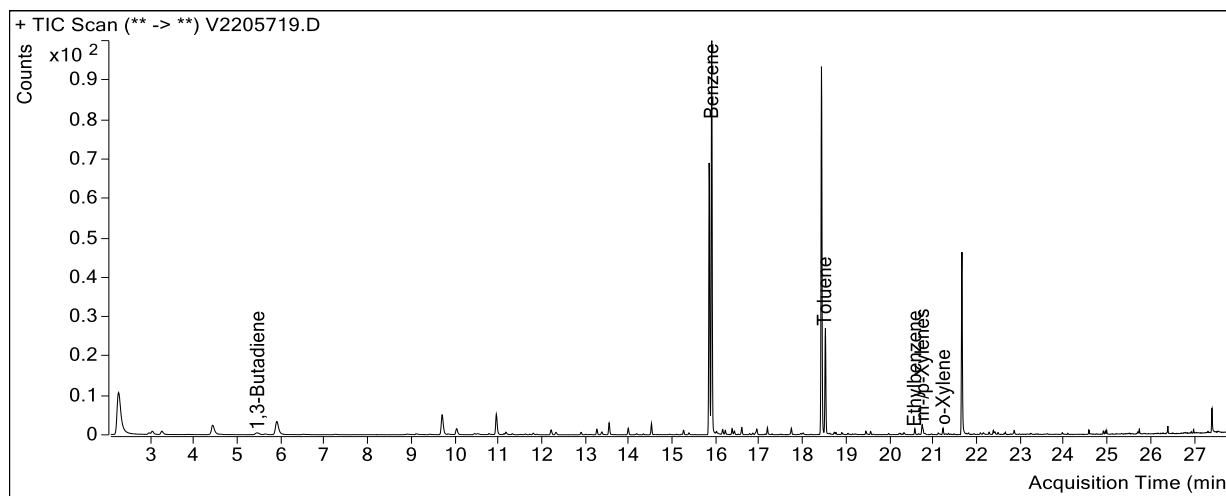
+ EIC (91.2) Scan V2205718.D



+ Scan (21.195-21.303 min, 18 scans) V2205718.D



Sample Name : USSCL-PT02-S-20230327
Sample Info : B27912; Recollect
Data File : V2205719.D
Acquisition Date : 2023-04-21 17:49:48
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

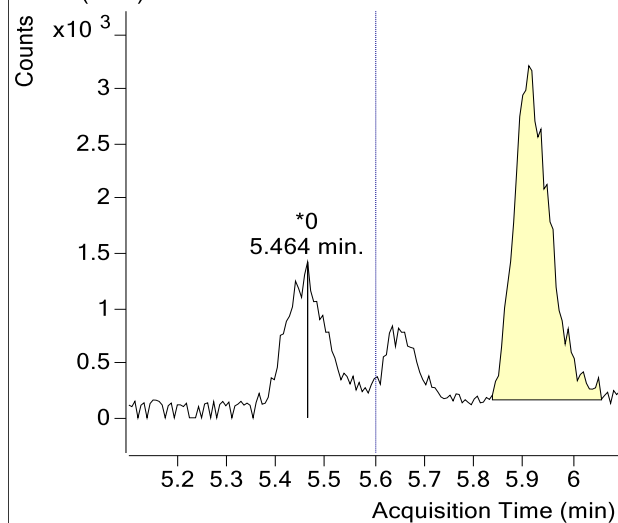


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	853,811	
Benzene	15.90	1,193,898	
Toluene-d8 (IS)	18.42	827,294	
Toluene	18.51	255,562	
Ethylbenzene	20.57	16,387	
m-/p-Xylenes	20.75	30,468	
o-Xylene	21.21	13,051	

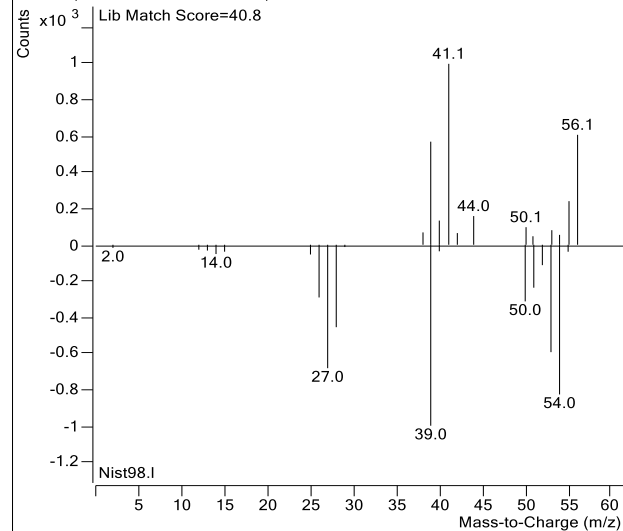
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205719.D

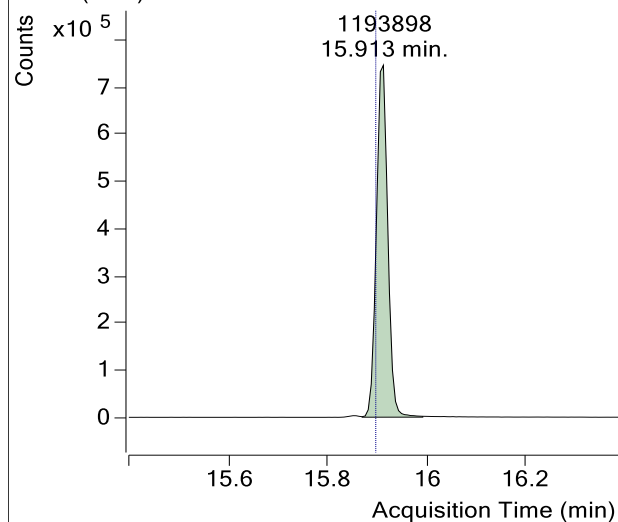


+ Scan (5.464-5.464 min, 1 scans) V2205719.D

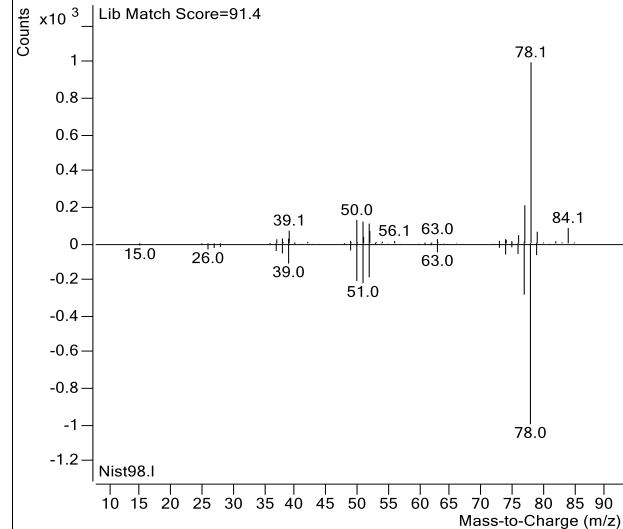


Benzene

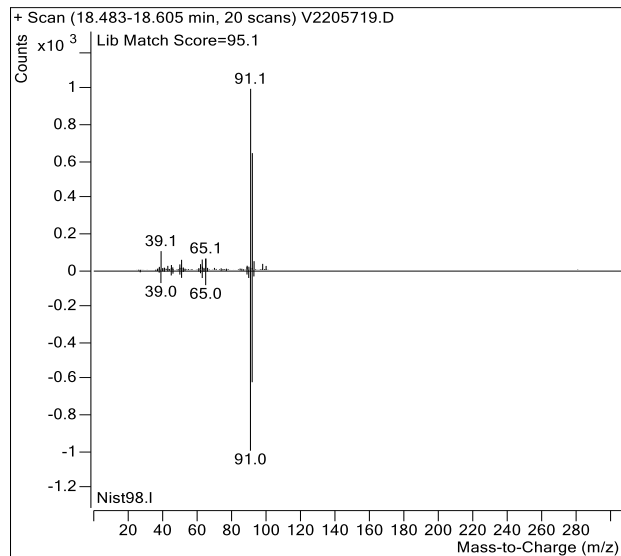
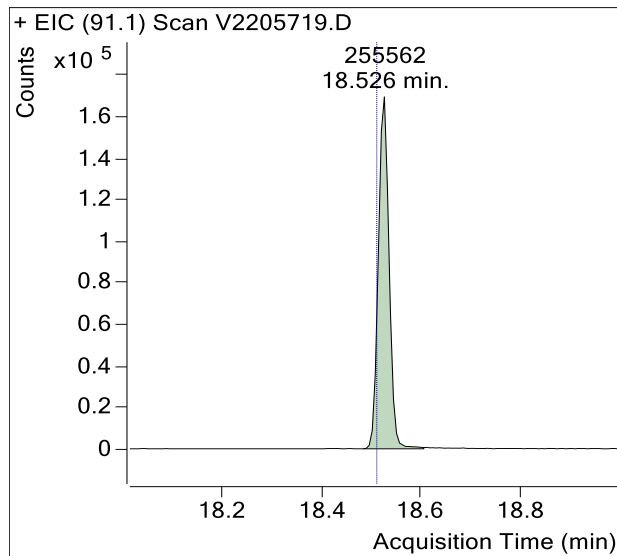
+ EIC (78.1) Scan V2205719.D



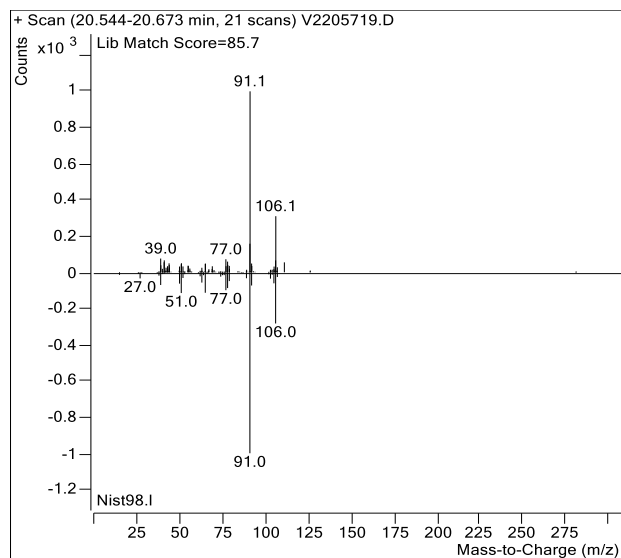
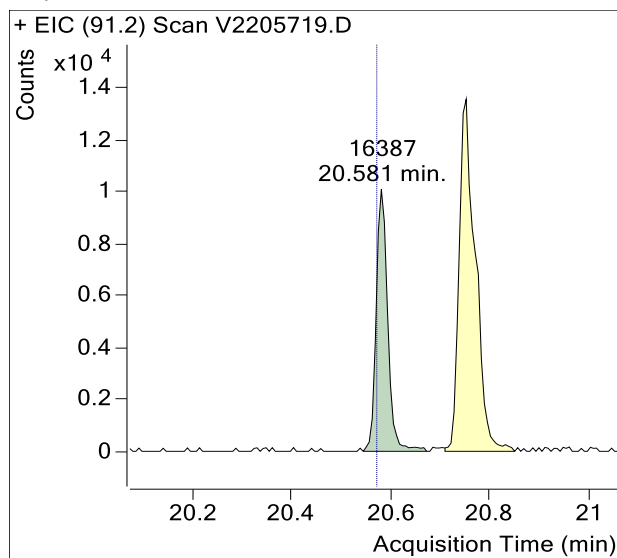
+ Scan (15.870-15.993 min, 20 scans) V2205719.D



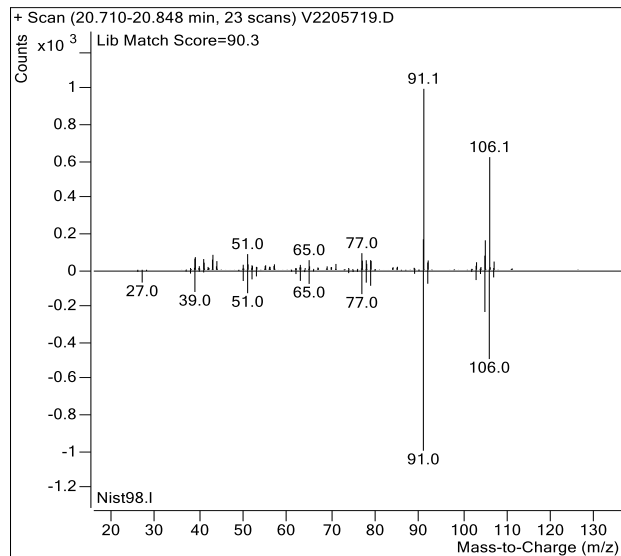
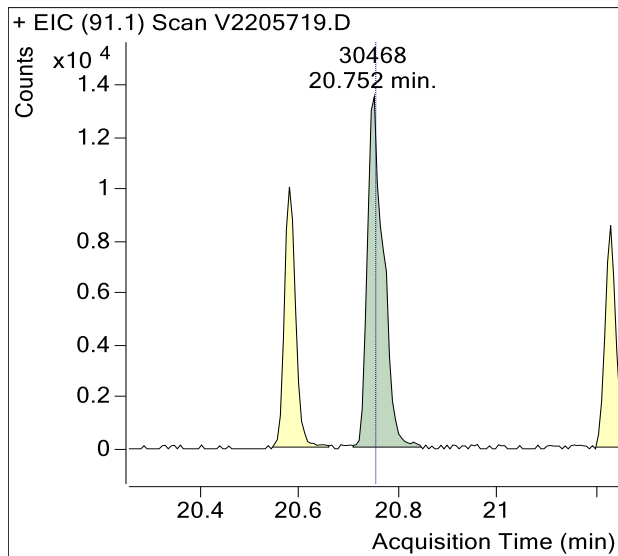
Toluene



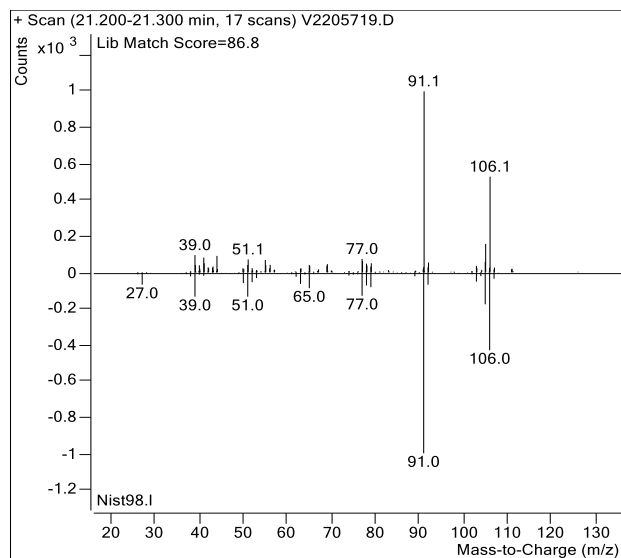
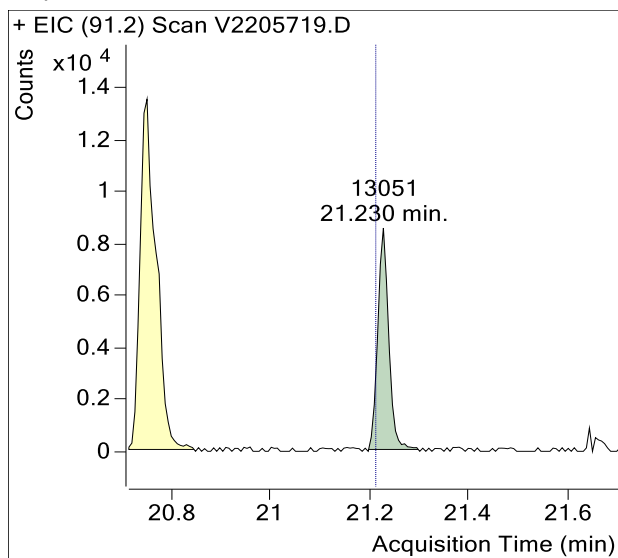
Ethylbenzene



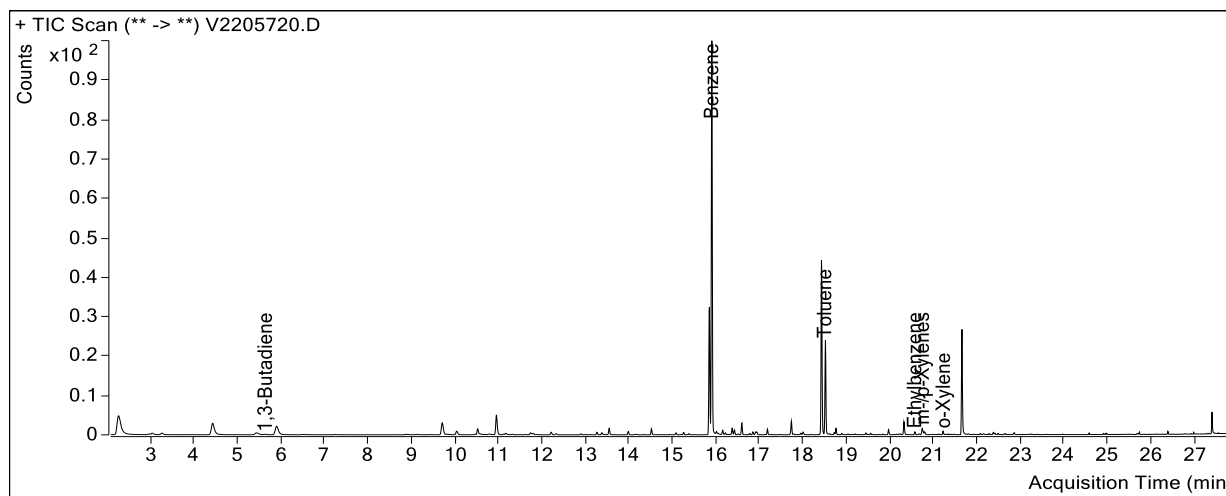
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT03-S-20230327
Sample Info : C02238; Recollect
Data File : V2205720.D
Acquisition Date : 2023-04-21 18:36:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

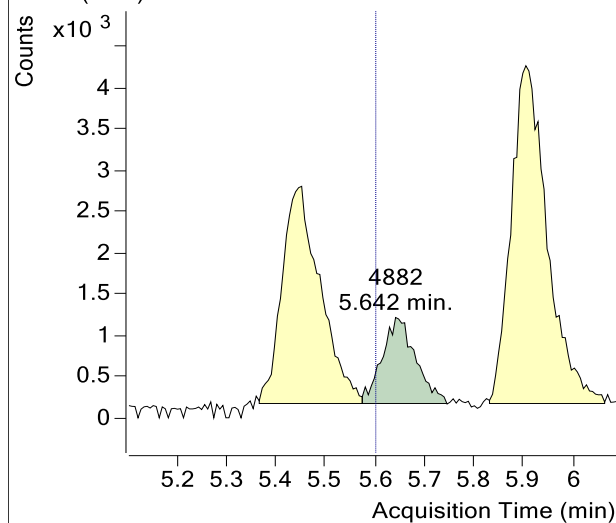


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	4,882	
Benzene-d6 (IS)	15.84	853,575	
Benzene	15.90	2,411,523	
Toluene-d8 (IS)	18.42	818,989	
Toluene	18.51	464,255	
Ethylbenzene	20.57	15,495	
m-/p-Xylenes	20.75	40,096	
o-Xylene	21.21	15,195	

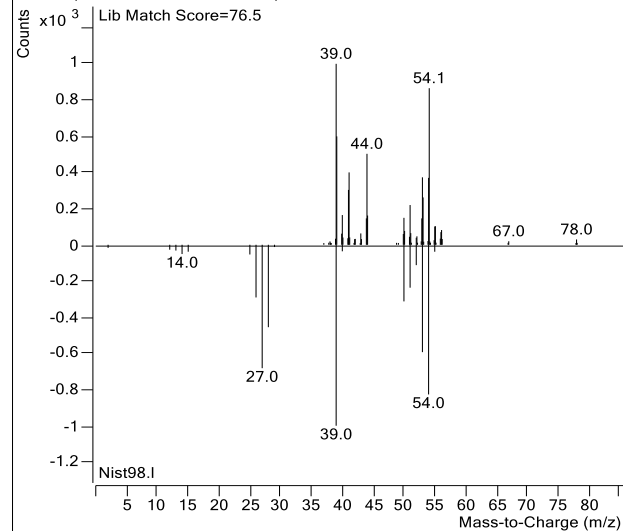
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205720.D

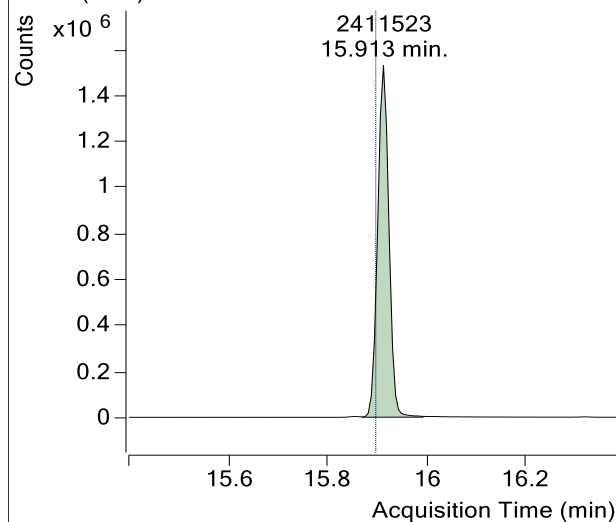


+ Scan (5.574-5.745 min, 28 scans) V2205720.D

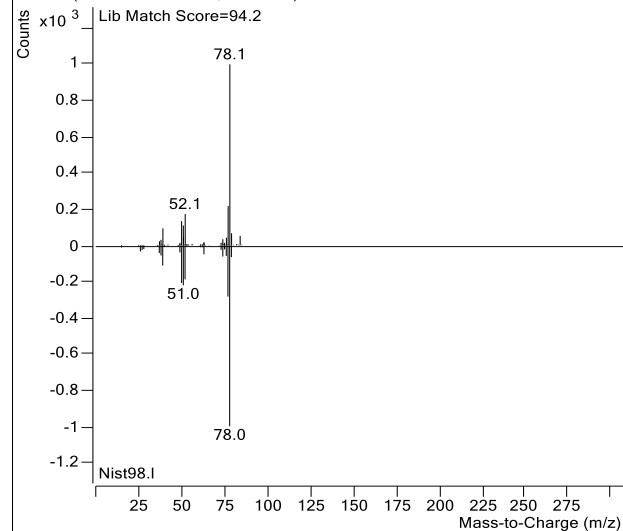


Benzene

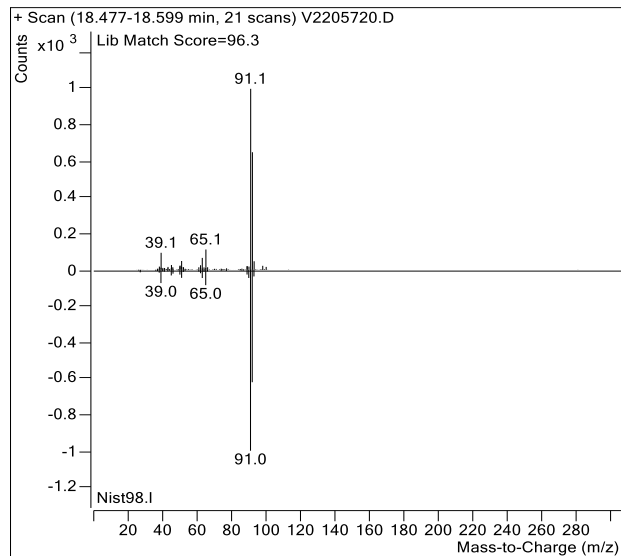
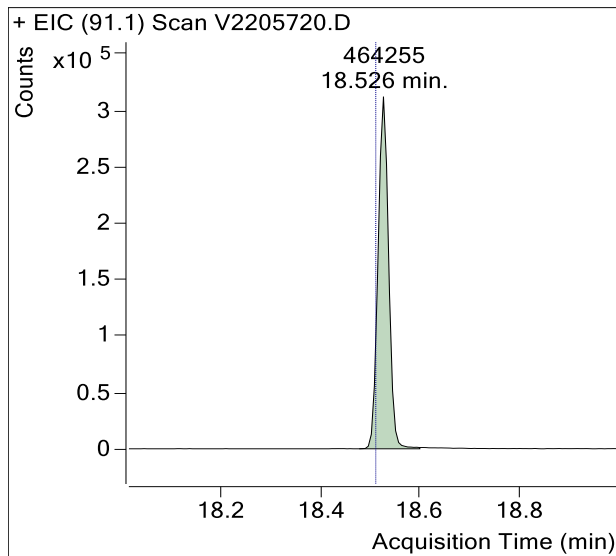
+ EIC (78.1) Scan V2205720.D



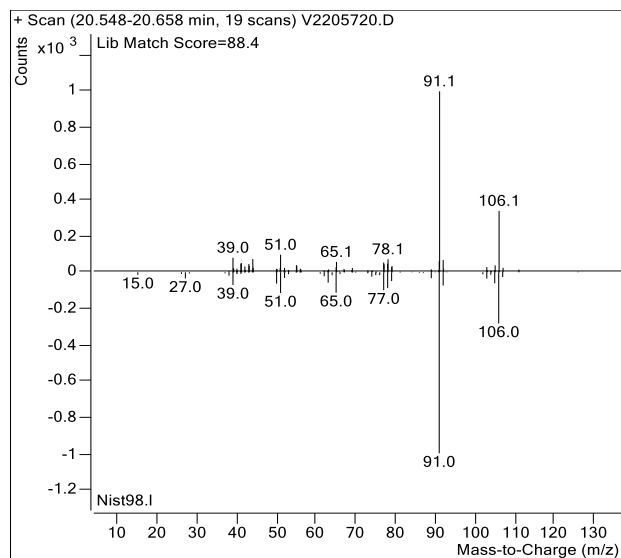
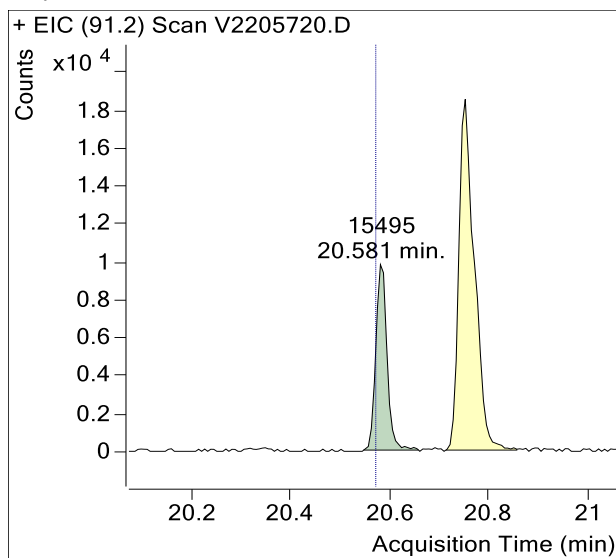
+ Scan (15.871-15.993 min, 20 scans) V2205720.D



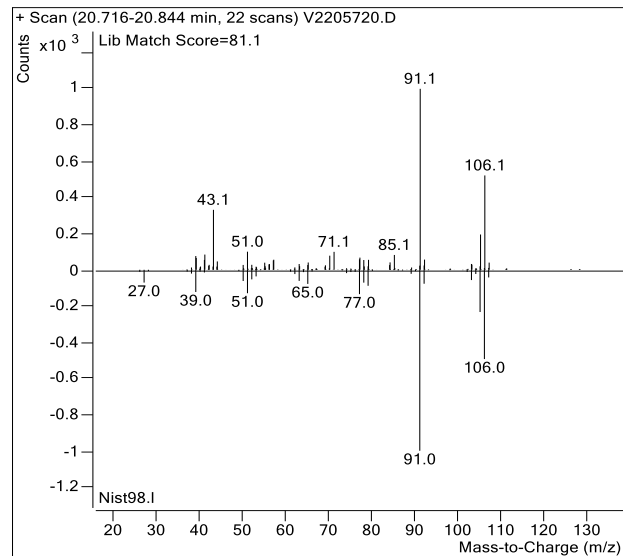
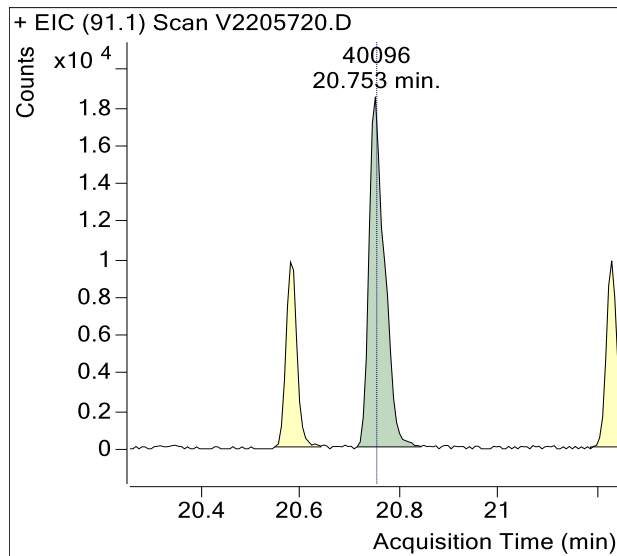
Toluene



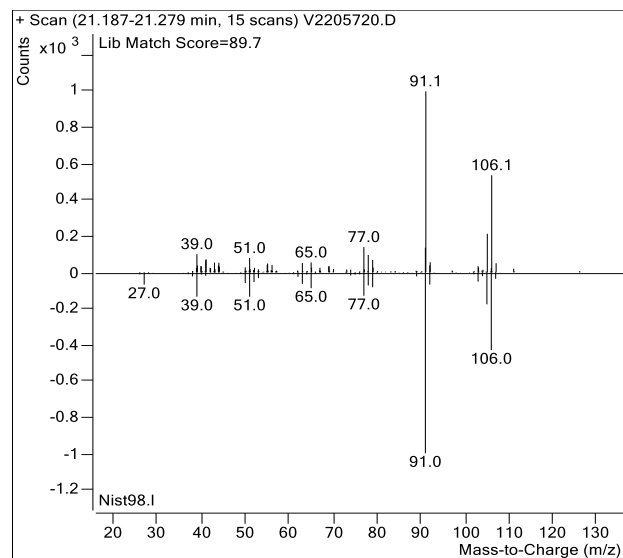
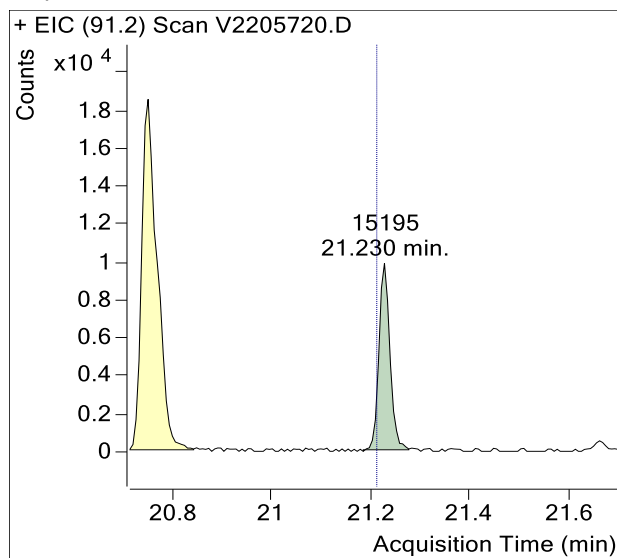
Ethylbenzene



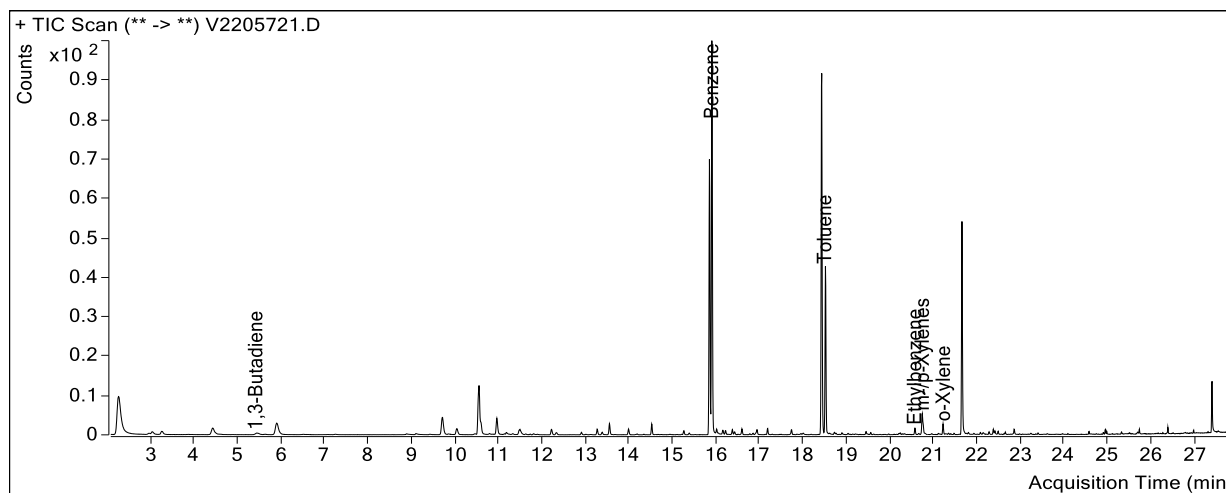
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT04-S-20230327
Sample Info : B15246; Recollect
Data File : V2205721.D
Acquisition Date : 2023-04-21 19:22:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

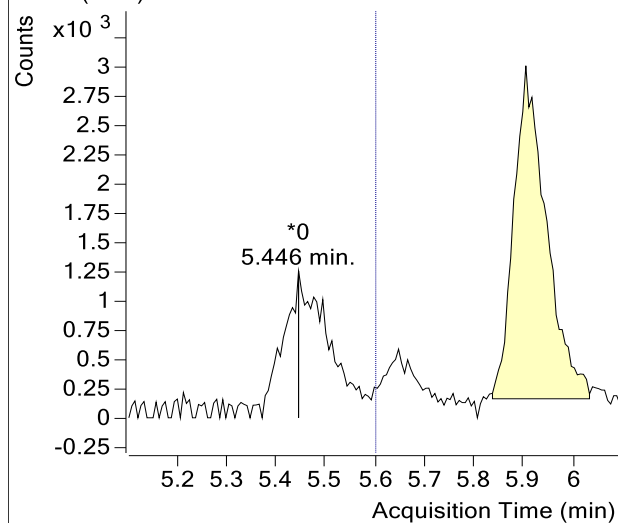


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	847,025	
Benzene	15.90	1,162,464	
Toluene-d8 (IS)	18.42	805,598	
Toluene	18.51	390,044	
Ethylbenzene	20.57	17,400	
m-/p-Xylenes	20.75	60,858	
o-Xylene	21.21	21,840	

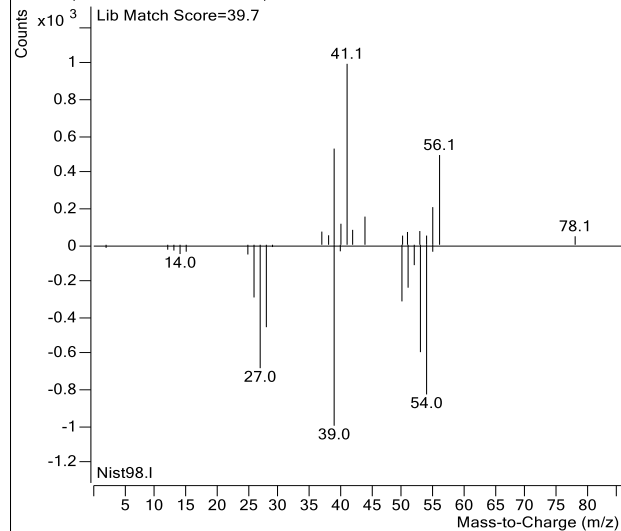
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205721.D

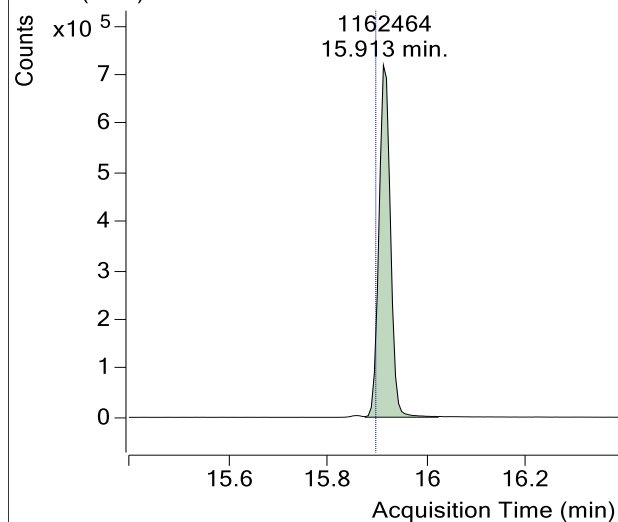


+ Scan (5.446-5.446 min, 1 scans) V2205721.D

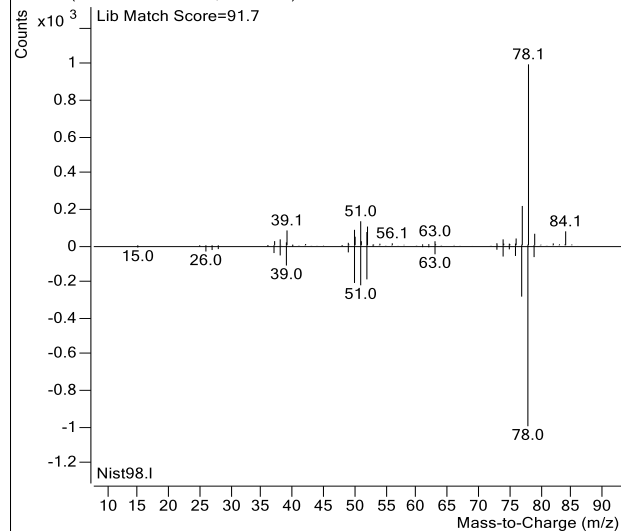


Benzene

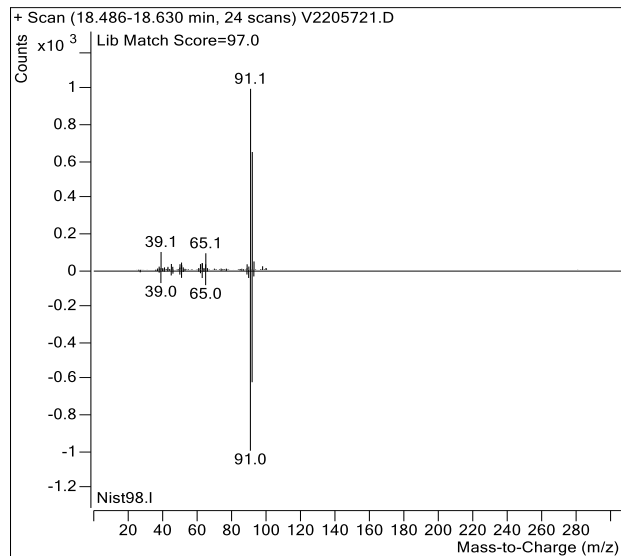
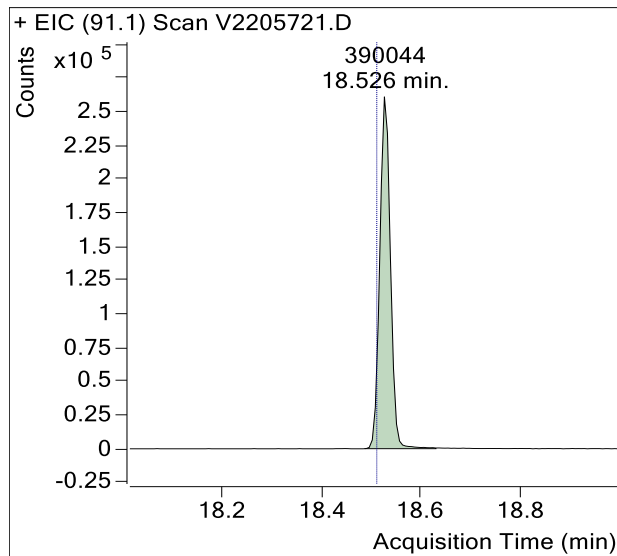
+ EIC (78.1) Scan V2205721.D



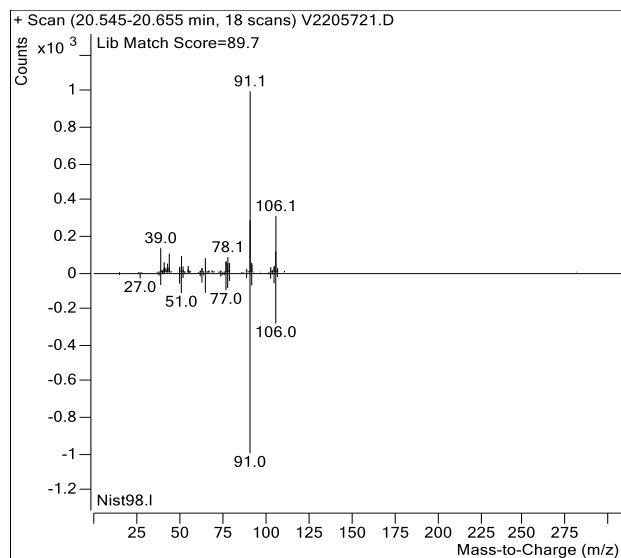
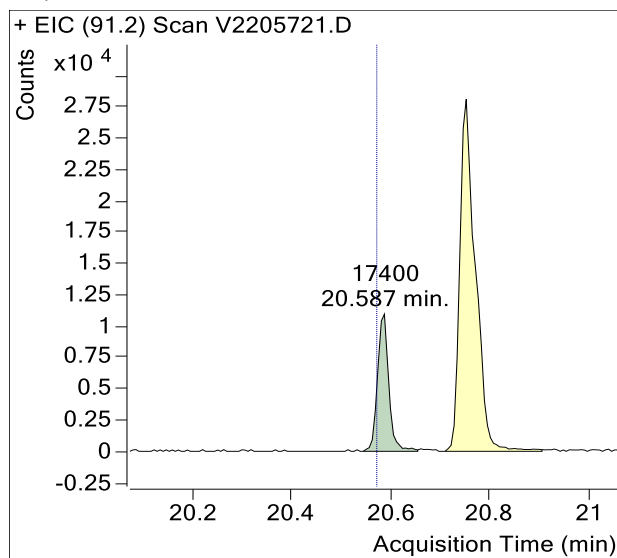
+ Scan (15.877-16.023 min, 25 scans) V2205721.D



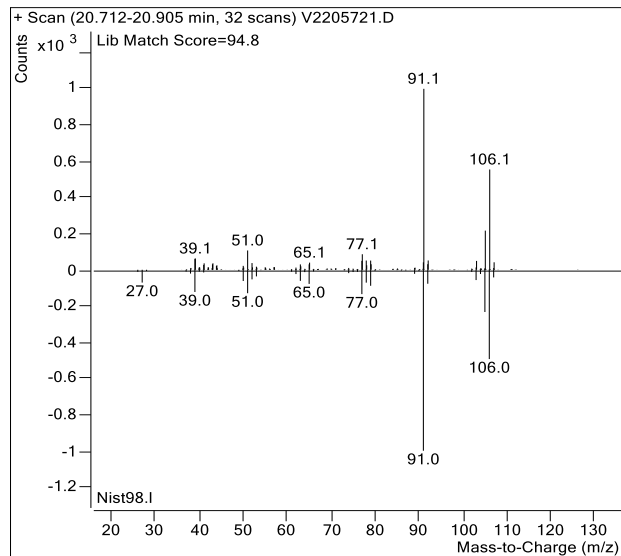
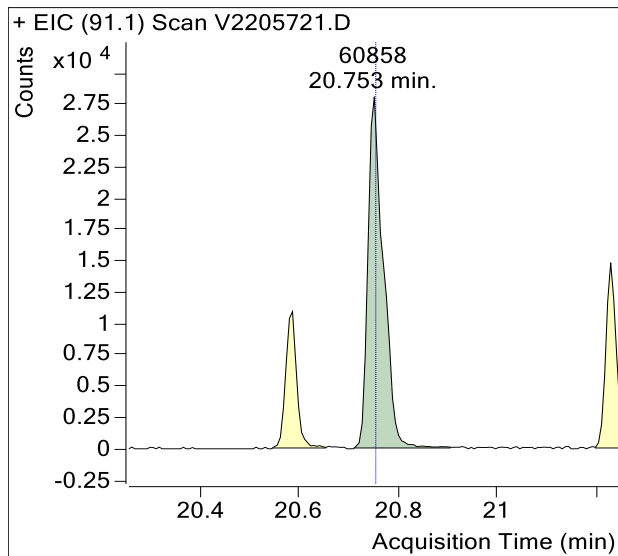
Toluene



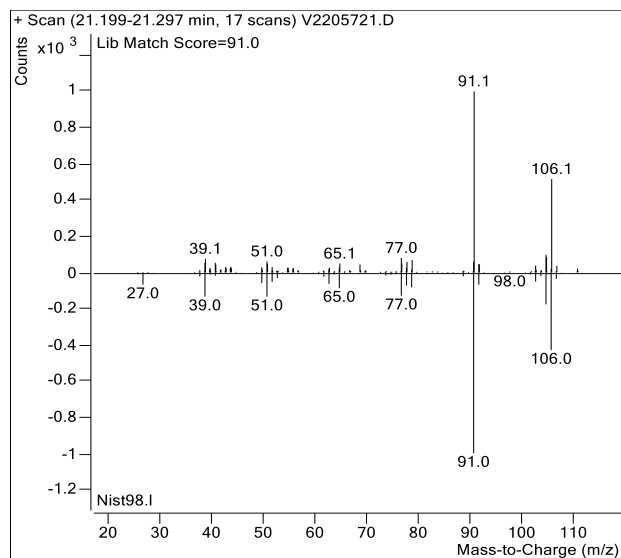
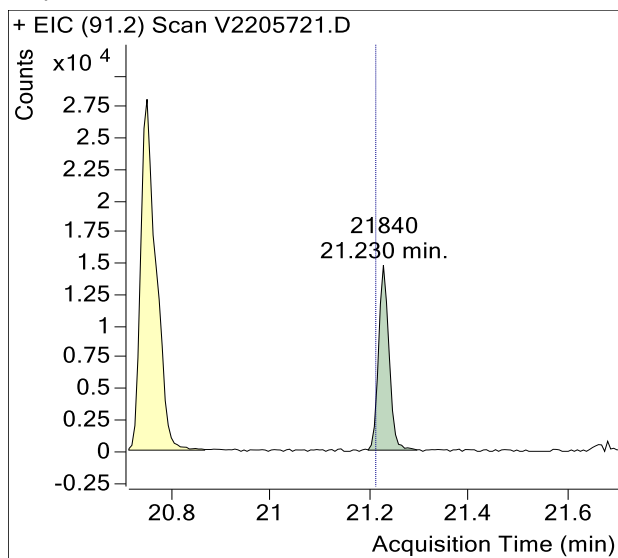
Ethylbenzene



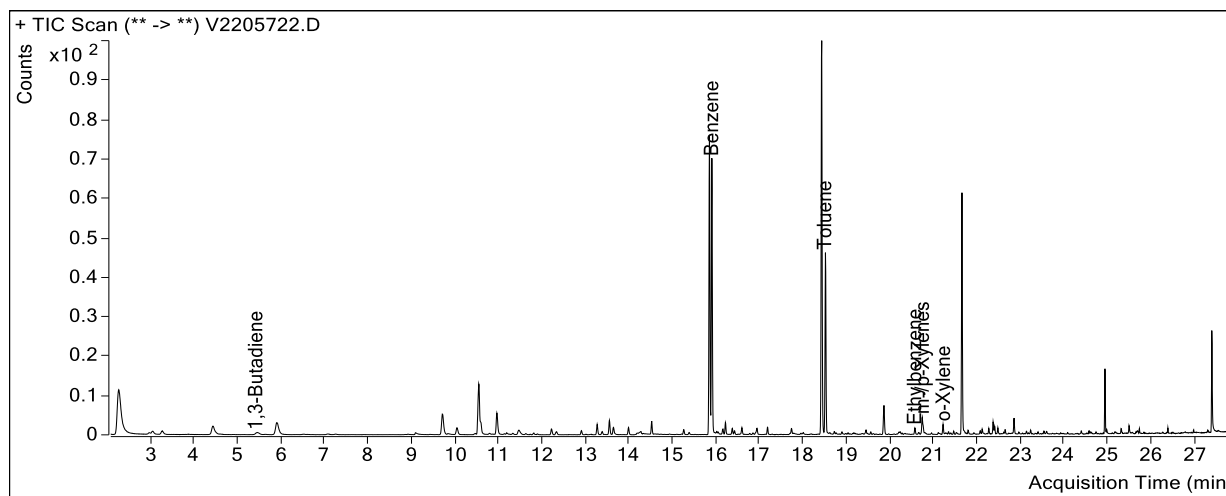
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT05-S-20230327
Sample Info : C17153; Recollect
Data File : V2205722.D
Acquisition Date : 2023-04-21 20:07:16
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

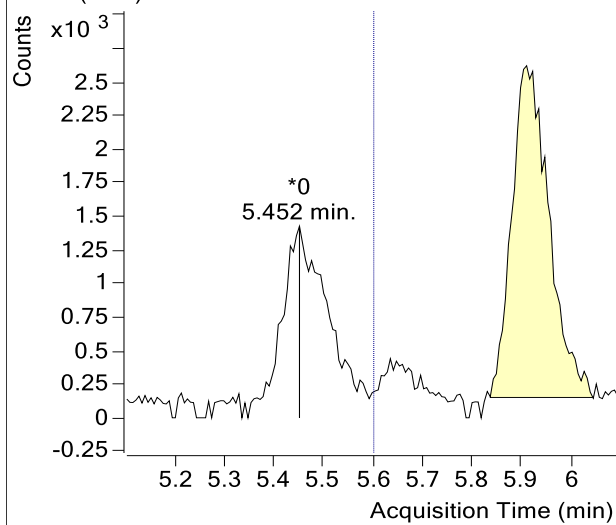
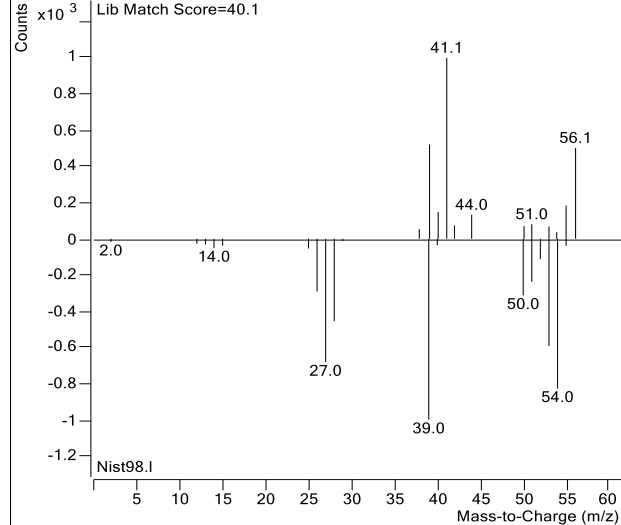


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	833,199	
Benzene	15.90	735,995	
Toluene-d8 (IS)	18.42	802,422	
Toluene	18.51	389,369	
Ethylbenzene	20.57	15,011	
m-/p-Xylenes	20.75	44,246	
o-Xylene	21.21	17,267	

(m)=Manual Integration

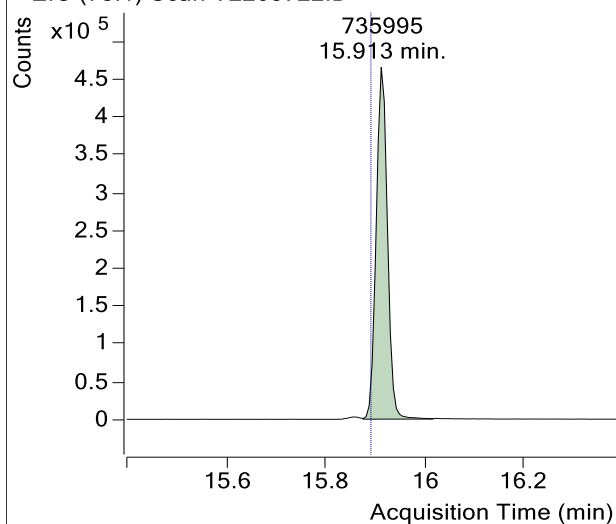
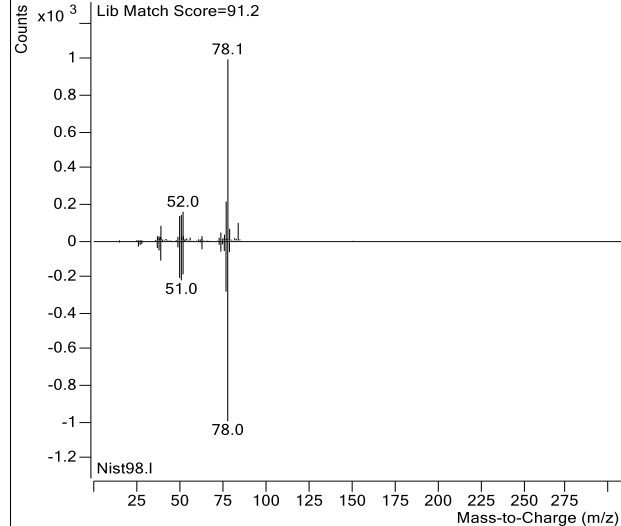
1,3-Butadiene

+ EIC (39.0) Scan V2205722.D

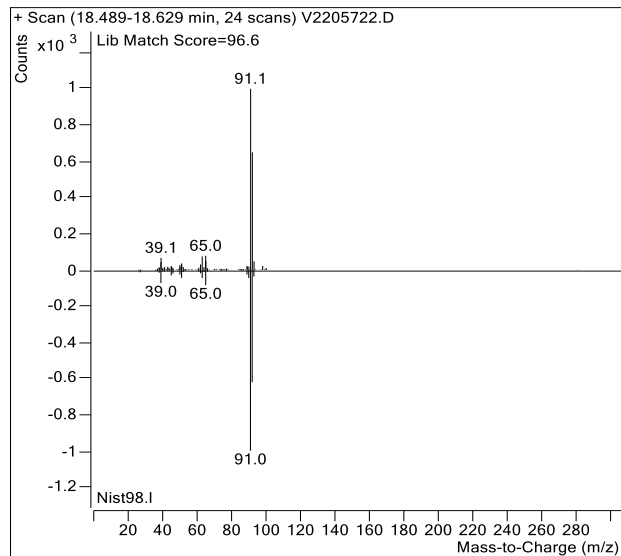
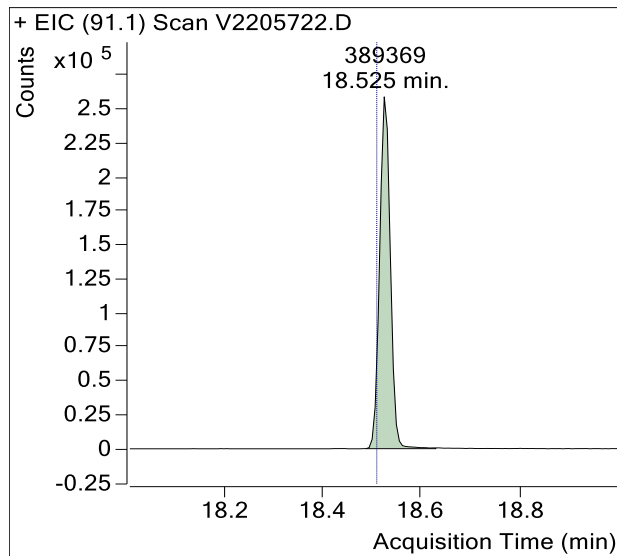
+ Scan (5.452-5.452 min, 1 scans) V2205722.D
Lib Match Score=40.1

Benzene

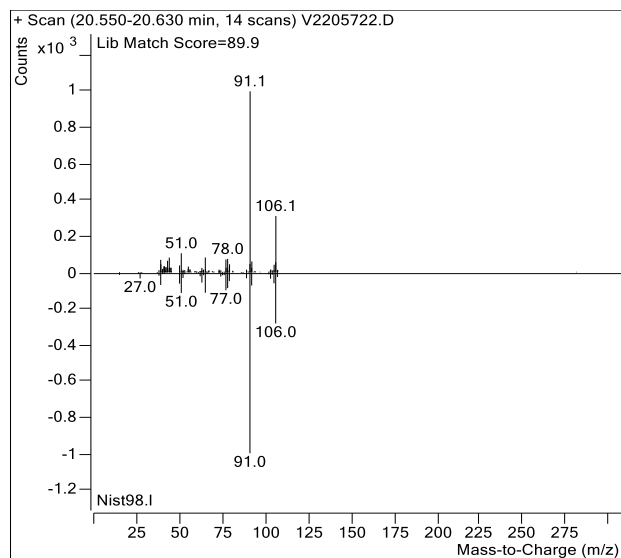
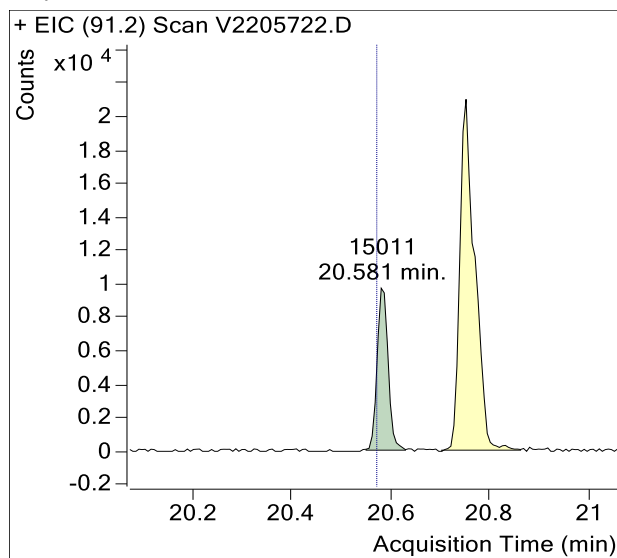
+ EIC (78.1) Scan V2205722.D

+ Scan (15.876-16.017 min, 24 scans) V2205722.D
Lib Match Score=91.2

Toluene

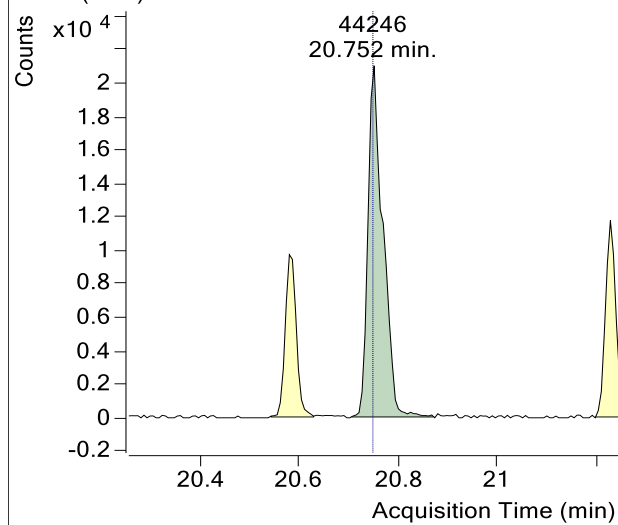


Ethylbenzene

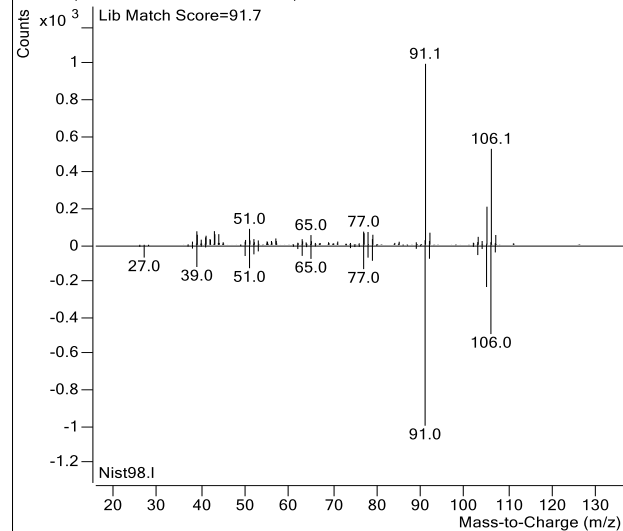


m-/p-Xylenes

+ EIC (91.1) Scan V2205722.D

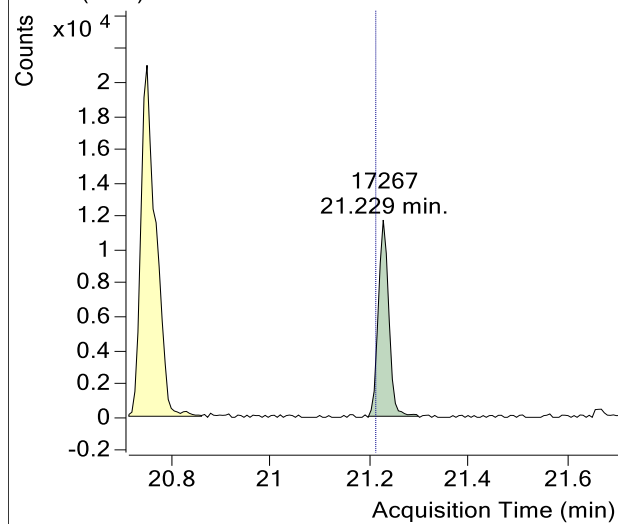


+ Scan (20.706-20.873 min, 28 scans) V2205722.D

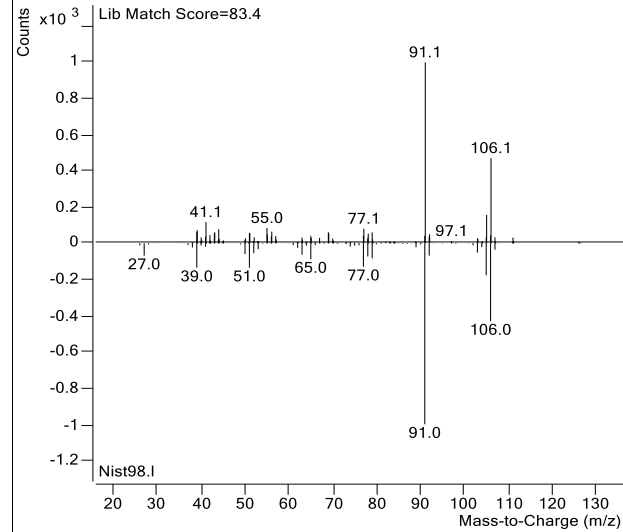


o-Xylene

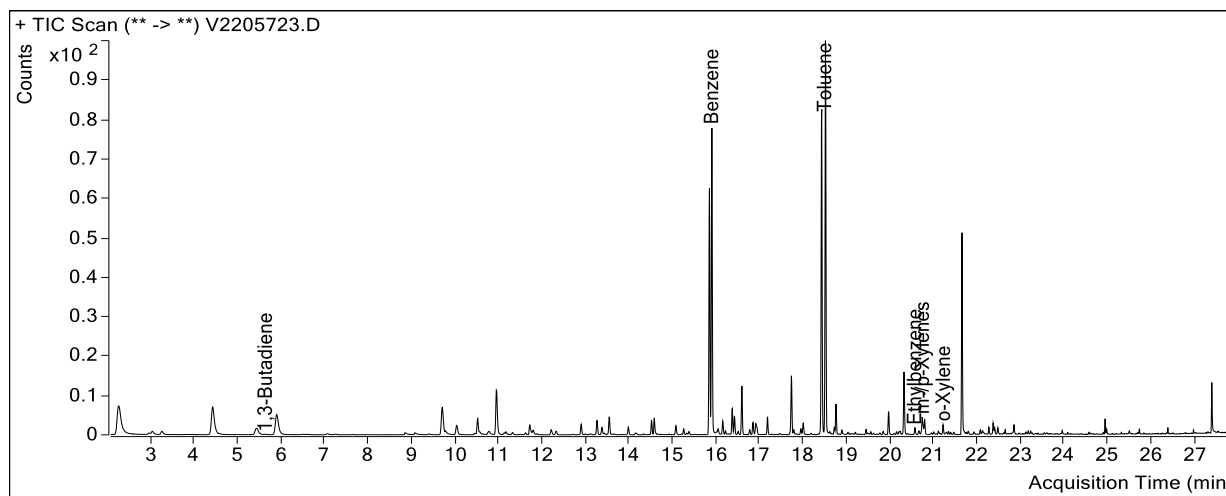
+ EIC (91.2) Scan V2205722.D



+ Scan (21.200-21.300 min, 17 scans) V2205722.D



Sample Name : USSCL-PT06-S-20230327
Sample Info : B47071; Recollect
Data File : V2205723.D
Acquisition Date : 2023-04-21 20:52:24
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

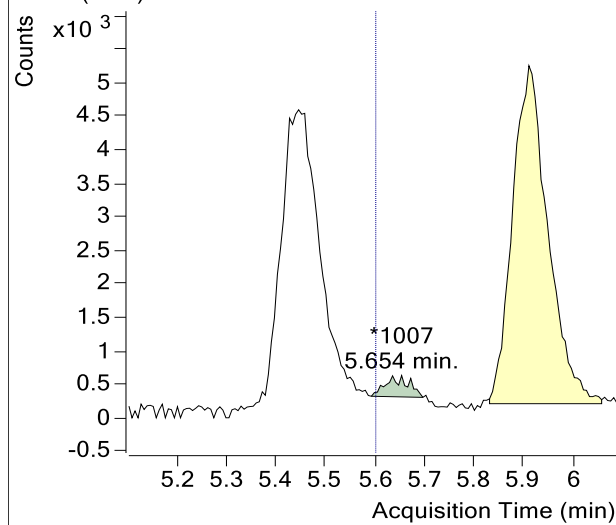


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	1,007	m
Benzene-d6 (IS)	15.84	839,679	
Benzene	15.90	997,089	
Toluene-d8 (IS)	18.42	798,169	
Toluene	18.51	1,031,705	
Ethylbenzene	20.57	17,982	
m-/p-Xylenes	20.75	52,947	
o-Xylene	21.21	19,854	

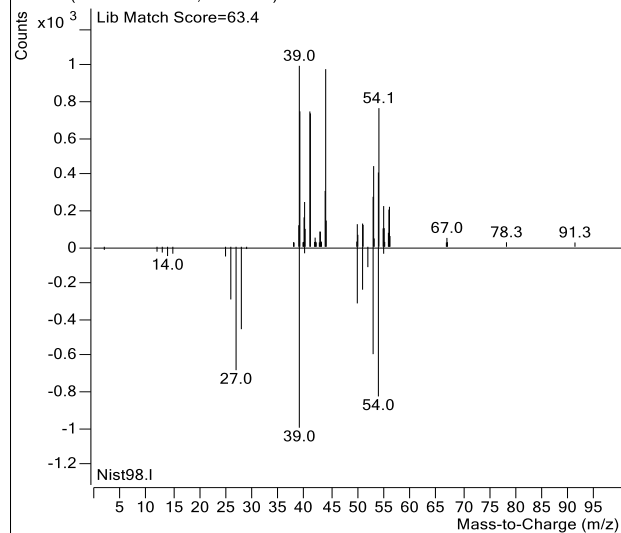
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205723.D

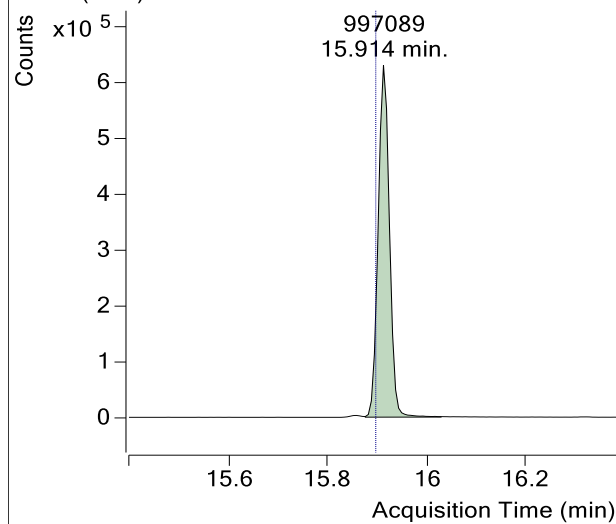


+ Scan (5.593-5.697 min, 17 scans) V2205723.D

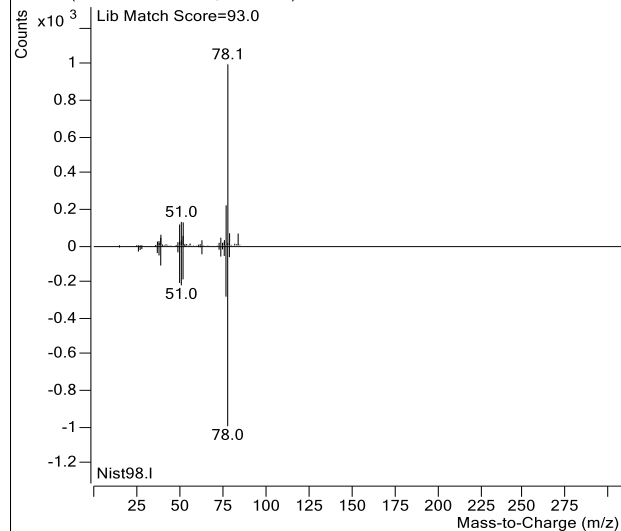


Benzene

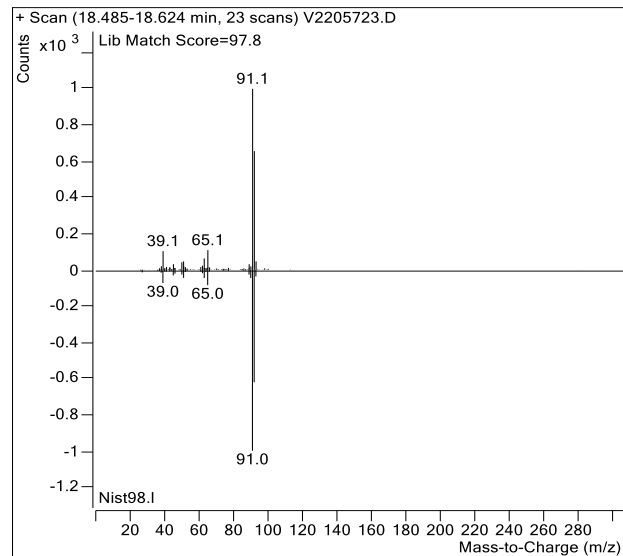
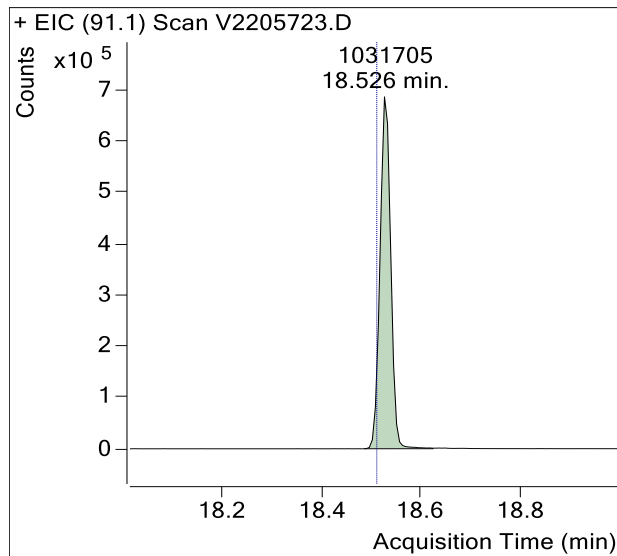
+ EIC (78.1) Scan V2205723.D



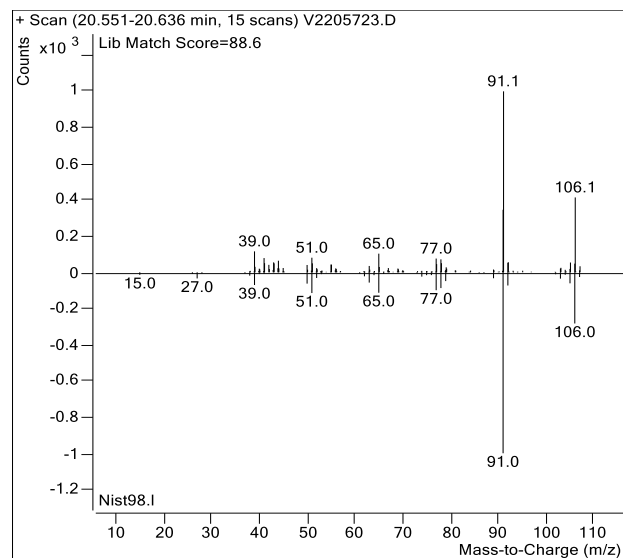
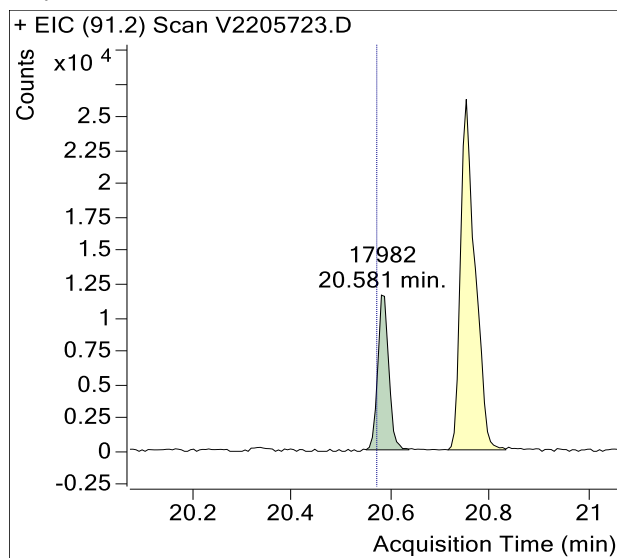
+ Scan (15.877-16.030 min, 25 scans) V2205723.D



Toluene

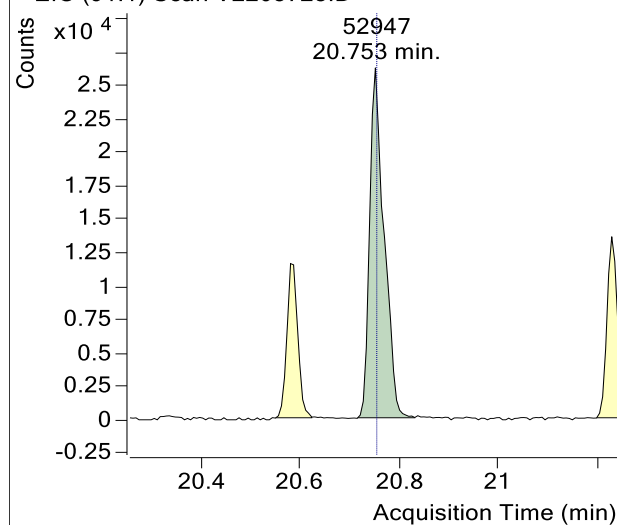


Ethylbenzene

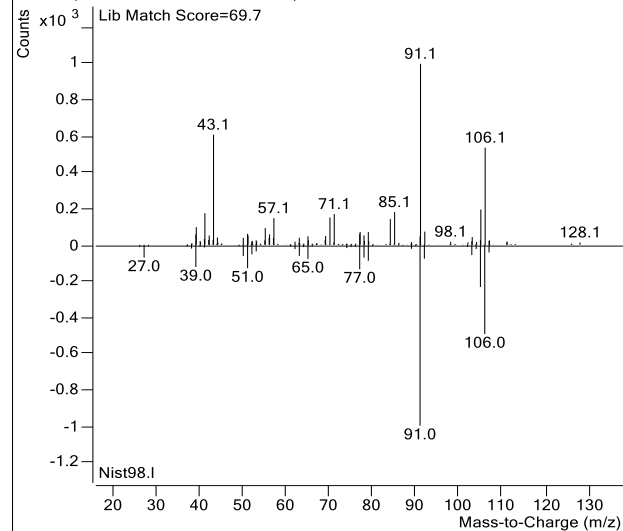


m-/p-Xylenes

+ EIC (91.1) Scan V2205723.D

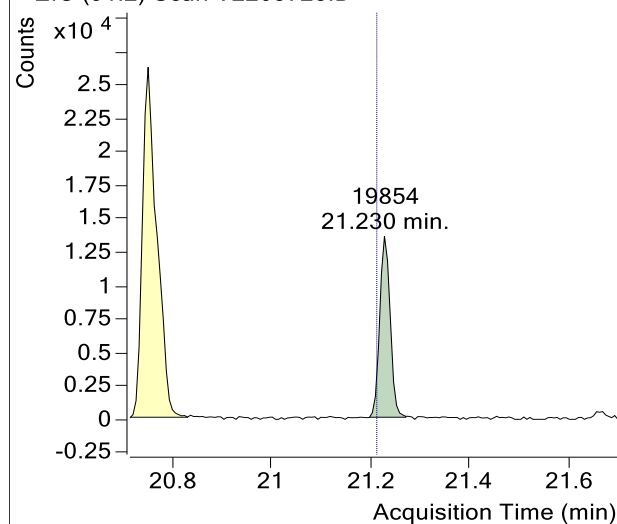


+ Scan (20.717-20.832 min, 19 scans) V2205723.D

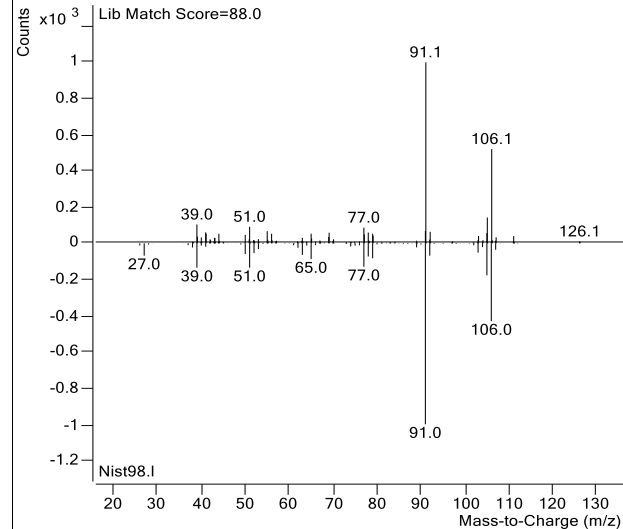


o-Xylene

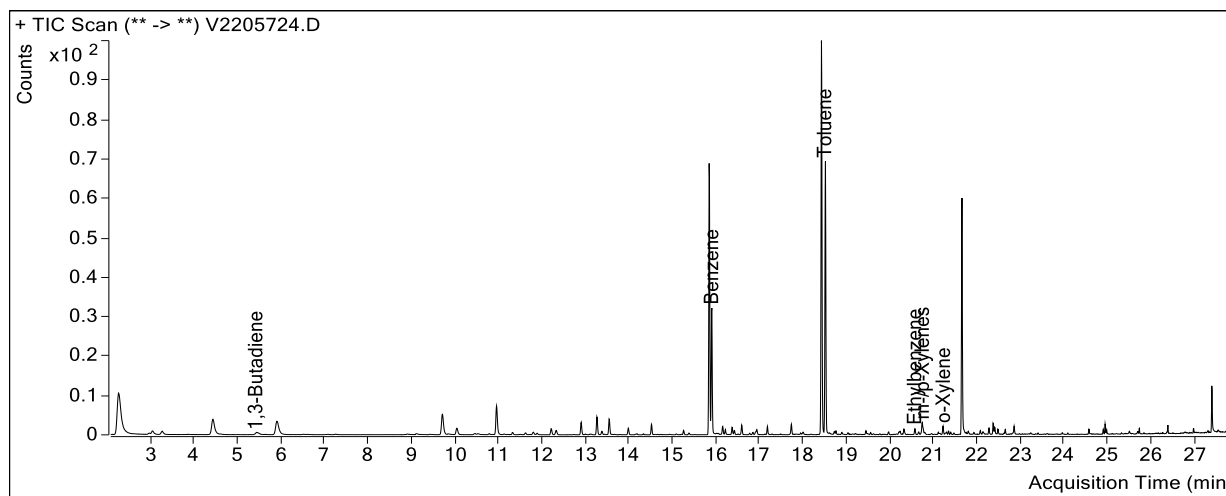
+ EIC (91.2) Scan V2205723.D



+ Scan (21.200-21.273 min, 12 scans) V2205723.D



Sample Name : USSCL-PT07-S-20230327
Sample Info : B52745; Recollect
Data File : V2205724.D
Acquisition Date : 2023-04-21 21:36:43
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

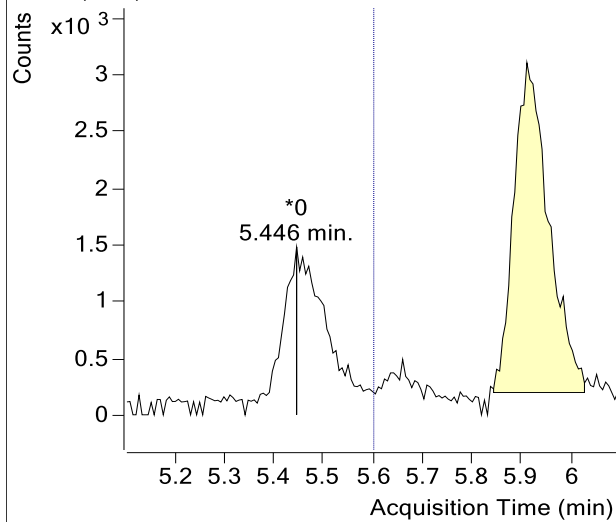


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	814,348	
Benzene	15.90	358,614	
Toluene-d8 (IS)	18.42	814,787	
Toluene	18.51	607,975	
Ethylbenzene	20.57	15,056	
m-/p-Xylenes	20.75	33,321	
o-Xylene	21.21	14,576	

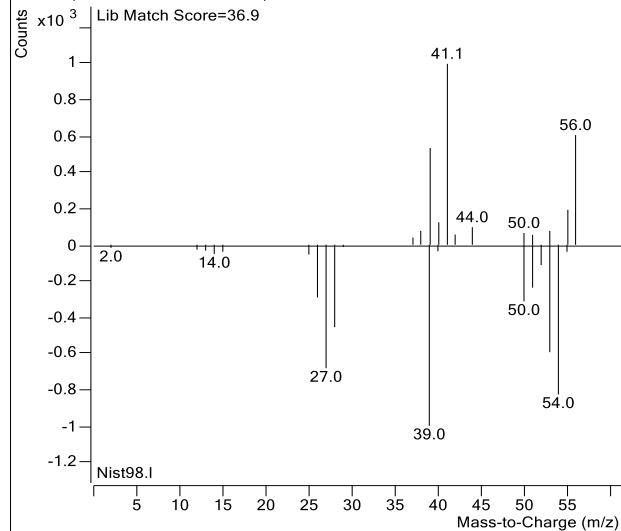
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205724.D

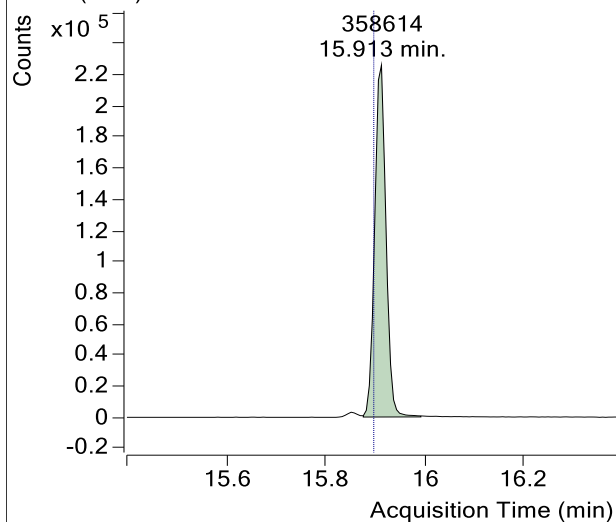


+ Scan (5.446-5.446 min, 1 scans) V2205724.D

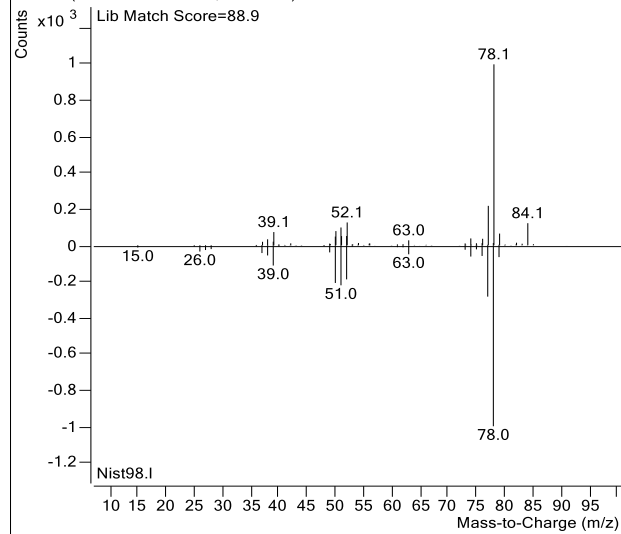


Benzene

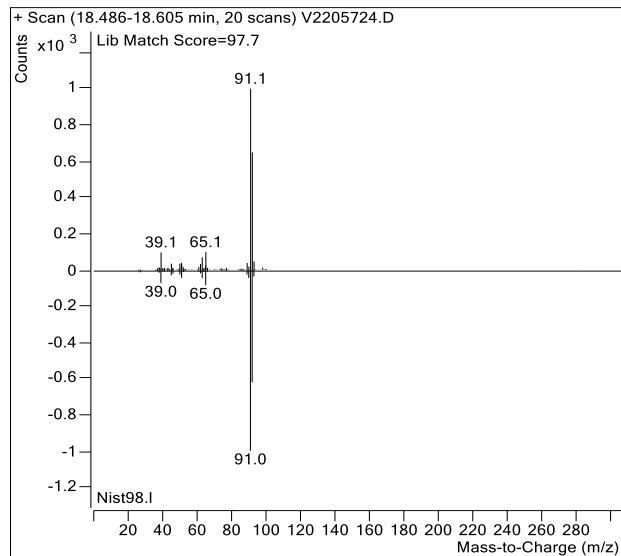
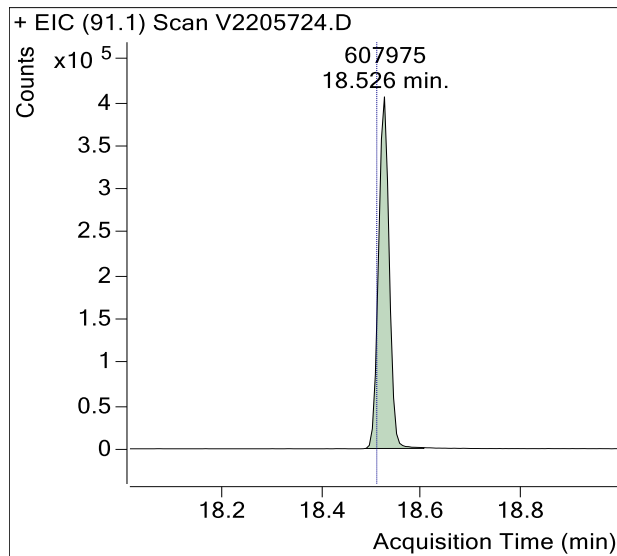
+ EIC (78.1) Scan V2205724.D



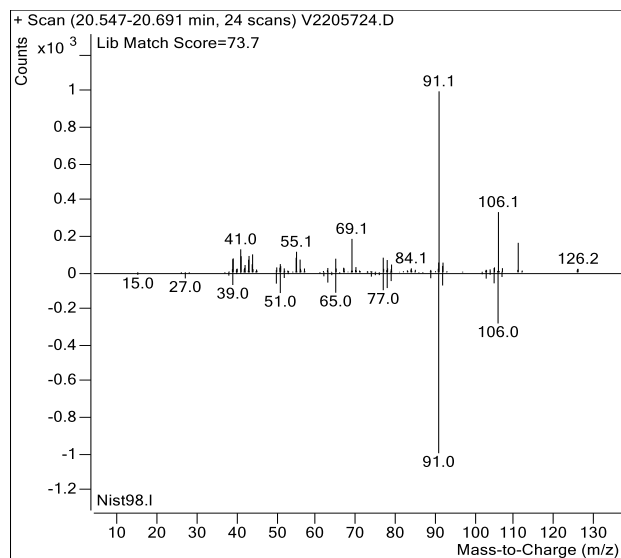
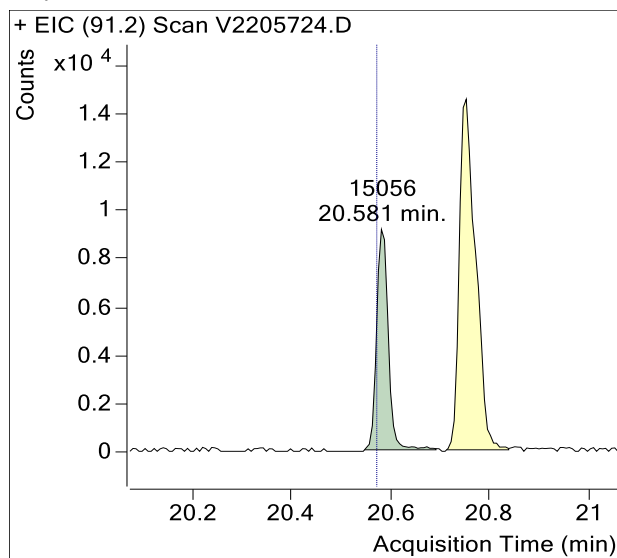
+ Scan (15.877-15.993 min, 19 scans) V2205724.D



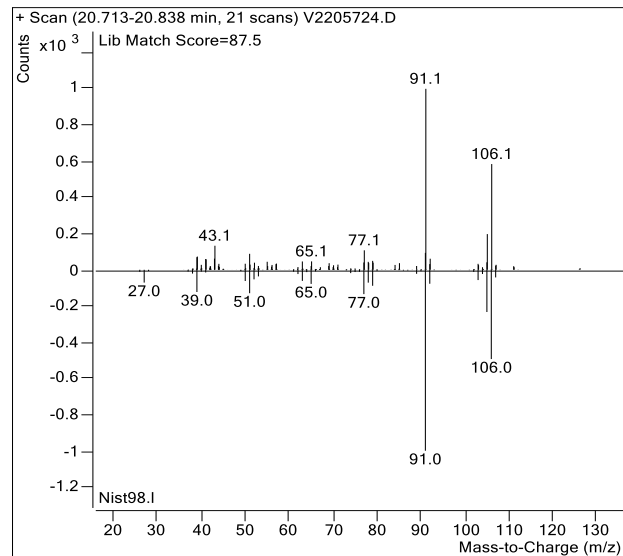
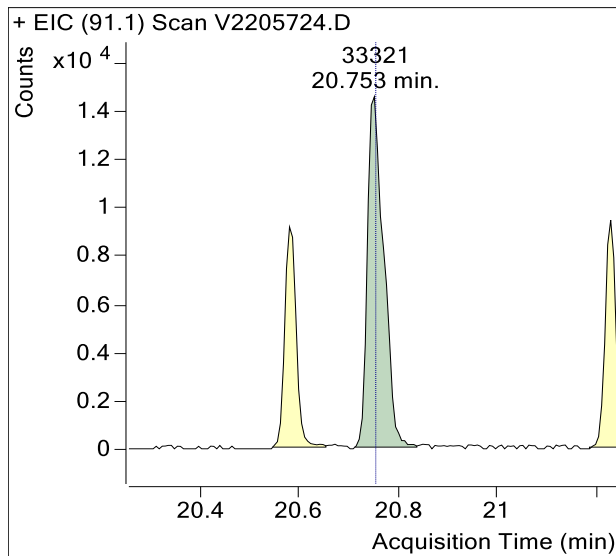
Toluene



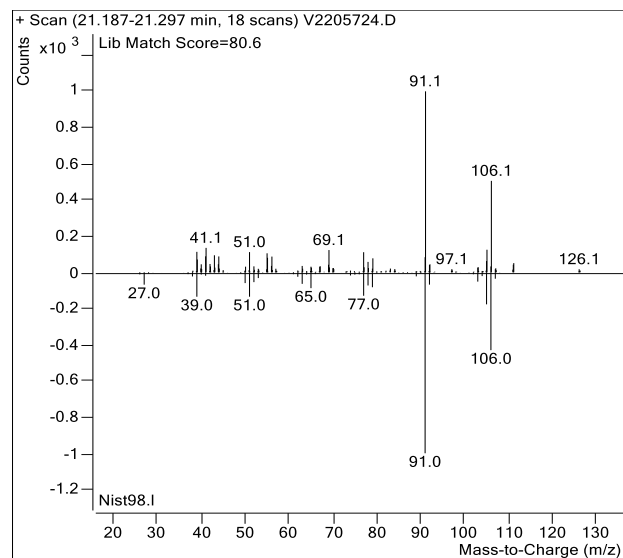
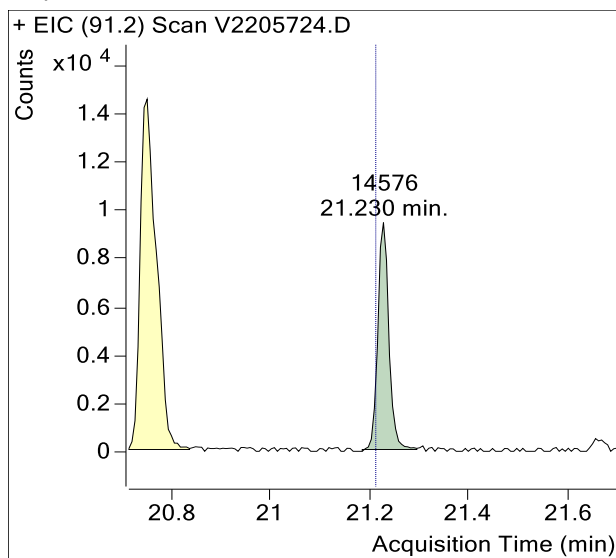
Ethylbenzene



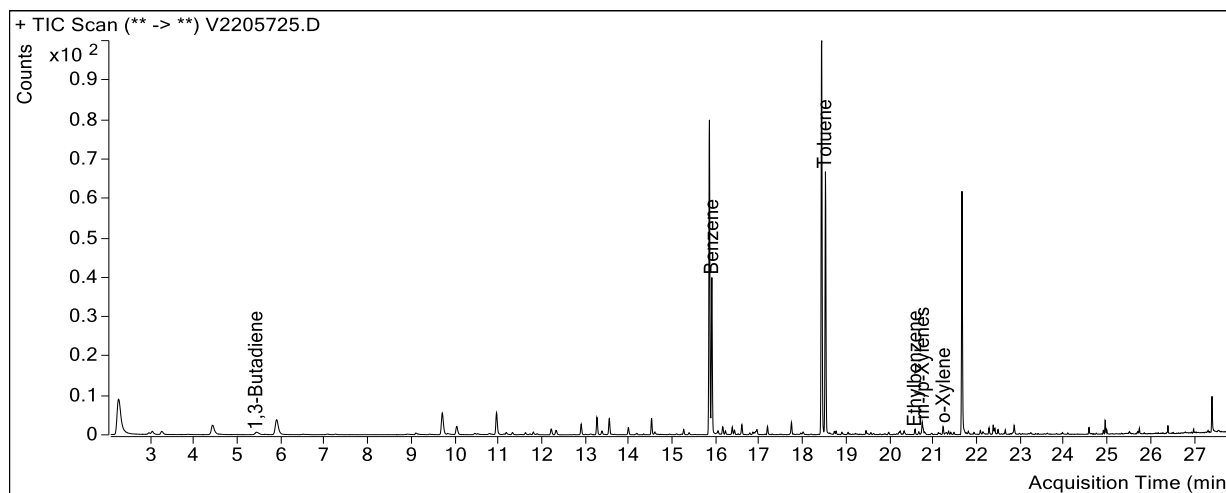
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT08-S-20230327
Sample Info : B14157; Recollect
Data File : V2205725.D
Acquisition Date : 2023-04-21 22:21:15
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

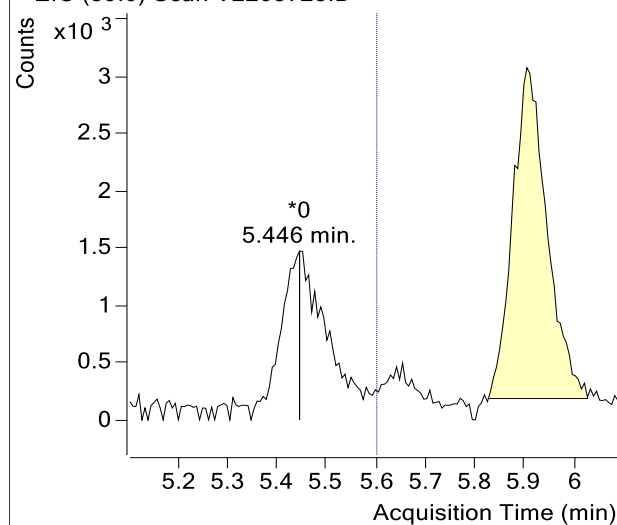


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	831,543	
Benzene	15.90	386,200	
Toluene-d8 (IS)	18.42	755,058	
Toluene	18.51	527,896	
Ethylbenzene	20.57	11,698	
m-/p-Xylenes	20.75	28,991	
o-Xylene	21.21	13,033	

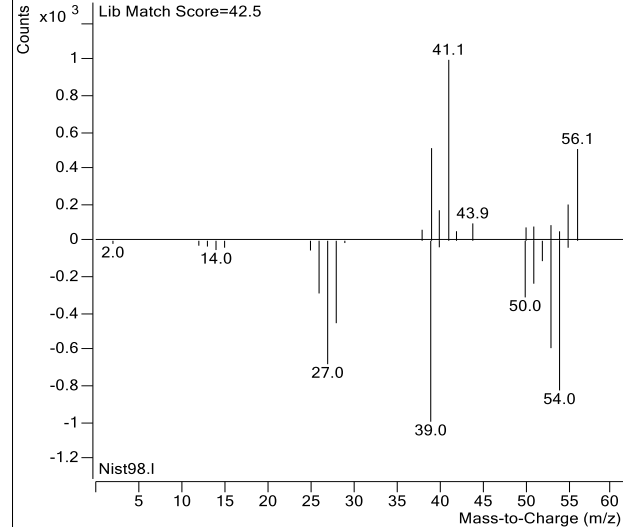
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205725.D

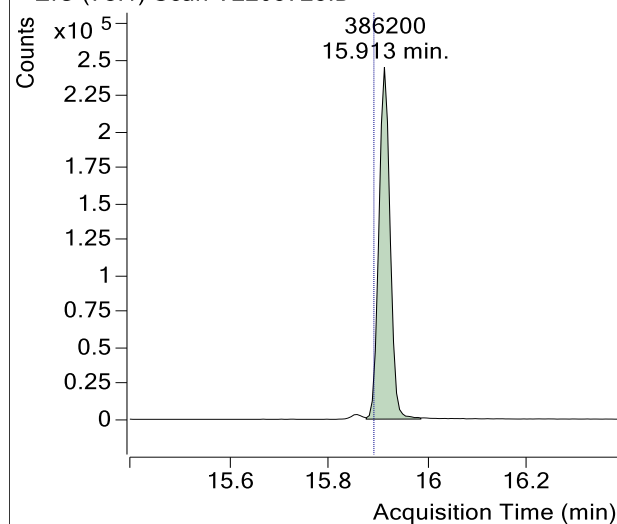


+ Scan (5.446-5.446 min, 1 scans) V2205725.D

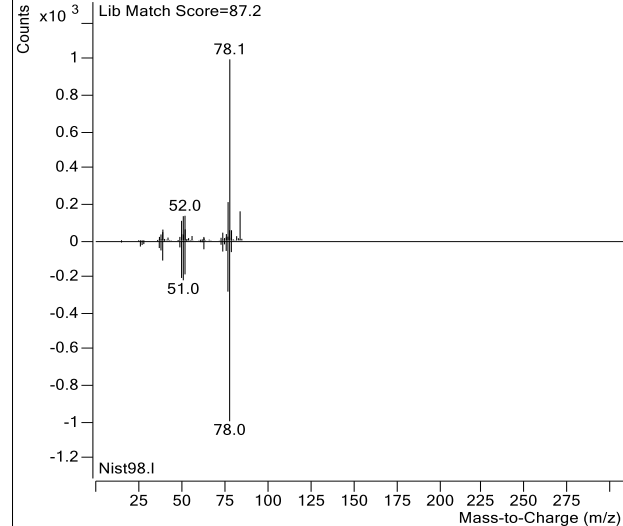


Benzene

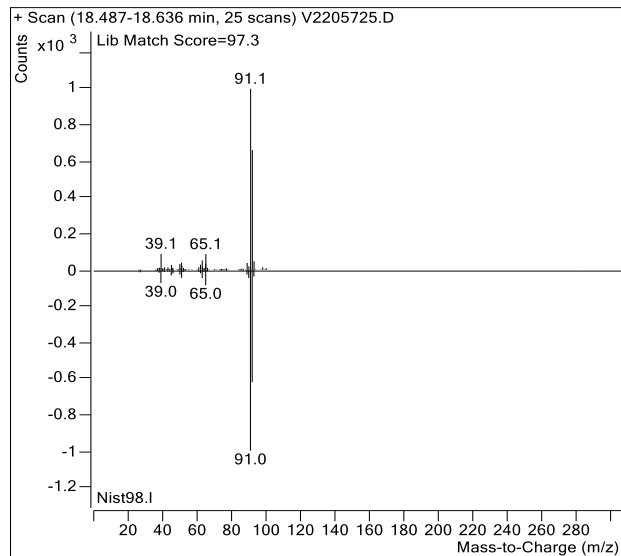
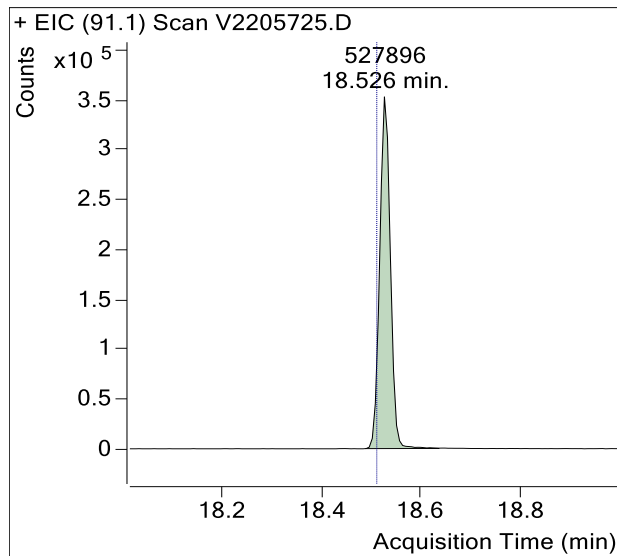
+ EIC (78.1) Scan V2205725.D



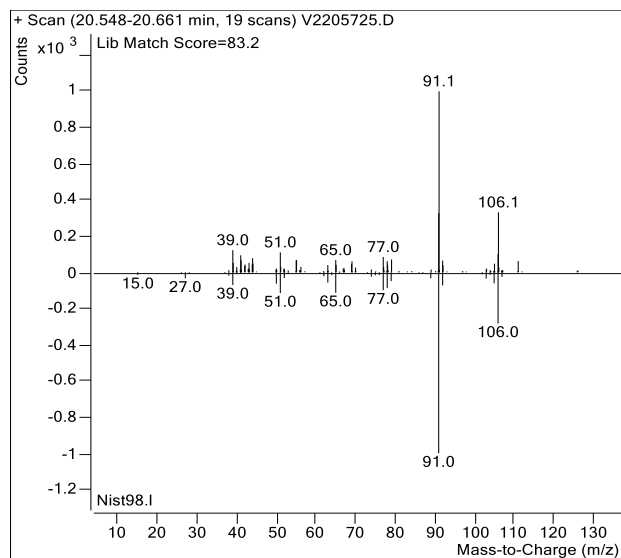
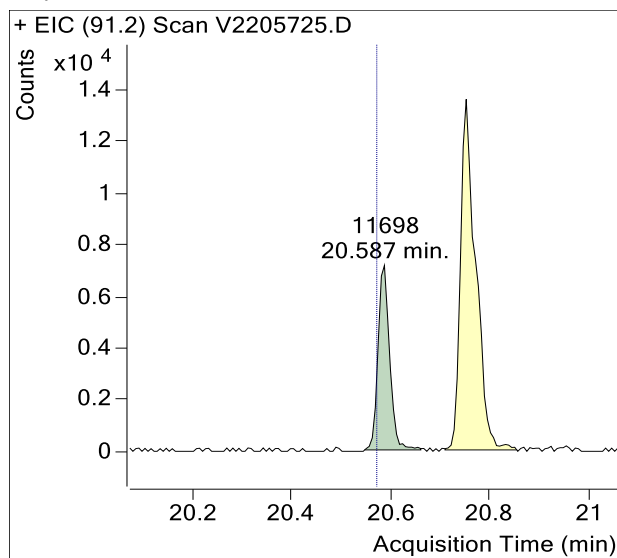
+ Scan (15.877-15.987 min, 18 scans) V2205725.D



Toluene

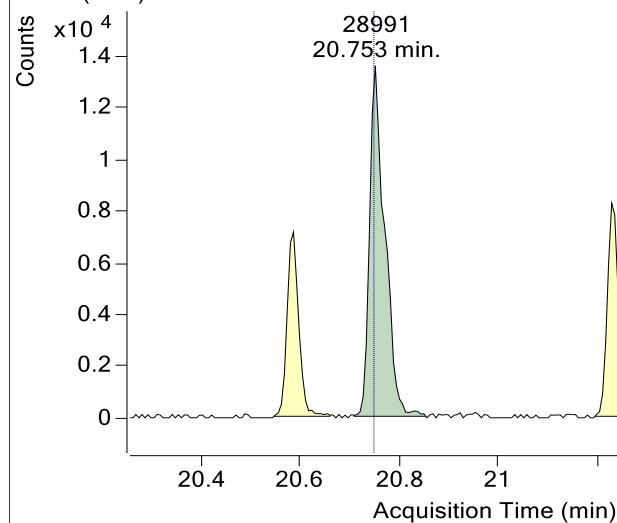


Ethylbenzene

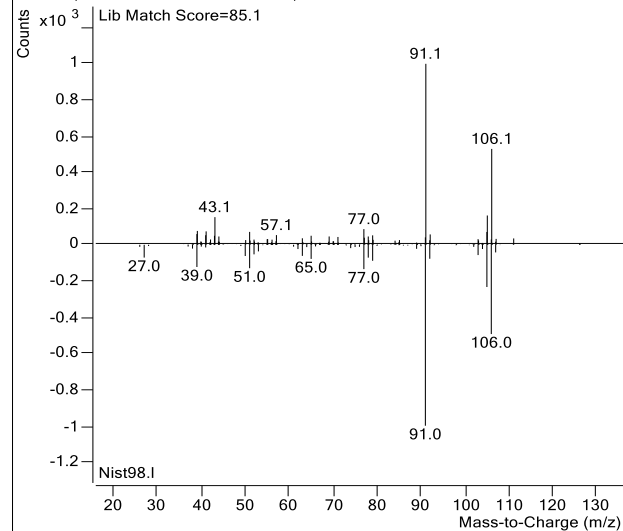


m-/p-Xylenes

+ EIC (91.1) Scan V2205725.D

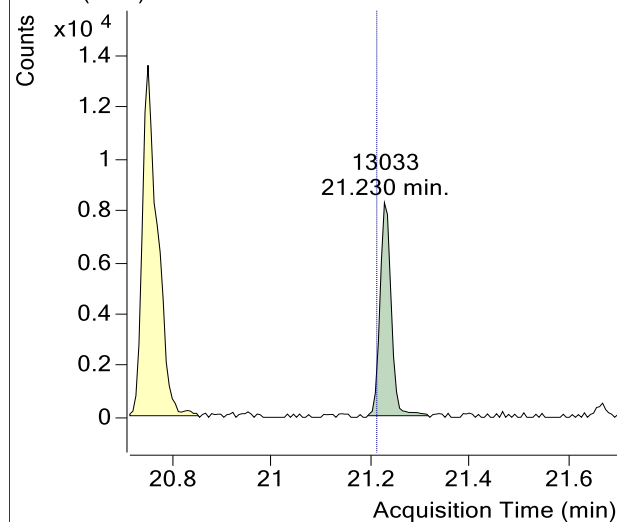


+ Scan (20.710-20.854 min, 24 scans) V2205725.D

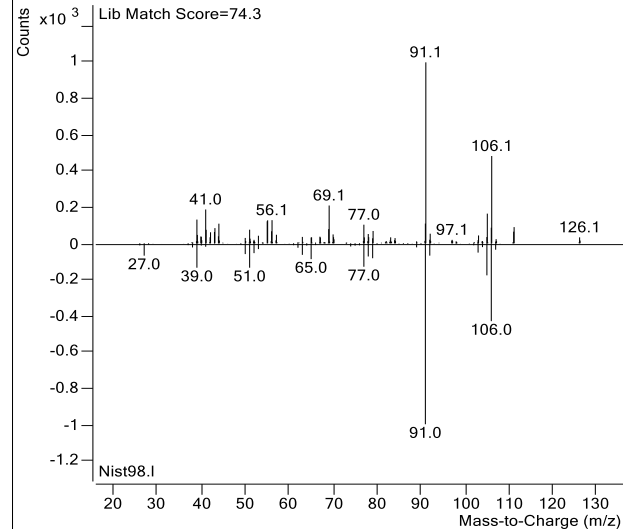


o-Xylene

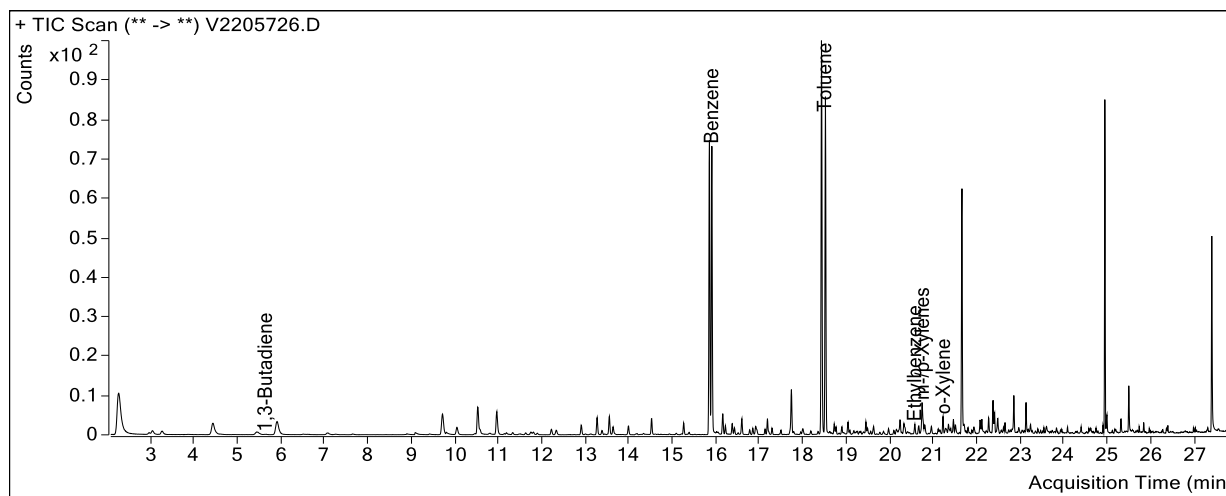
+ EIC (91.2) Scan V2205725.D



+ Scan (21.196-21.318 min, 21 scans) V2205725.D



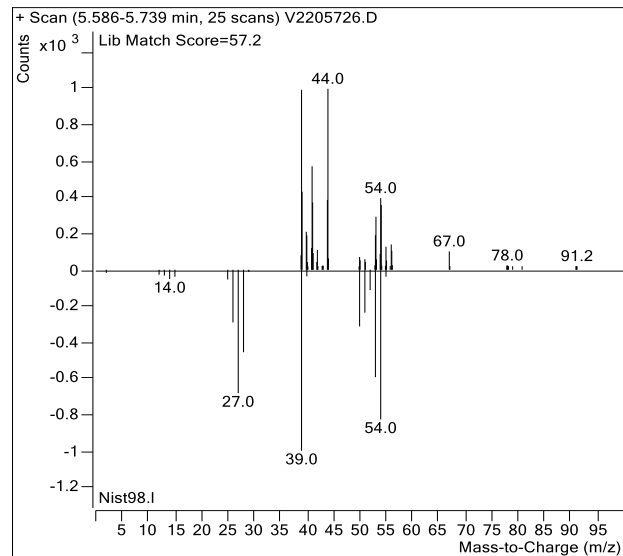
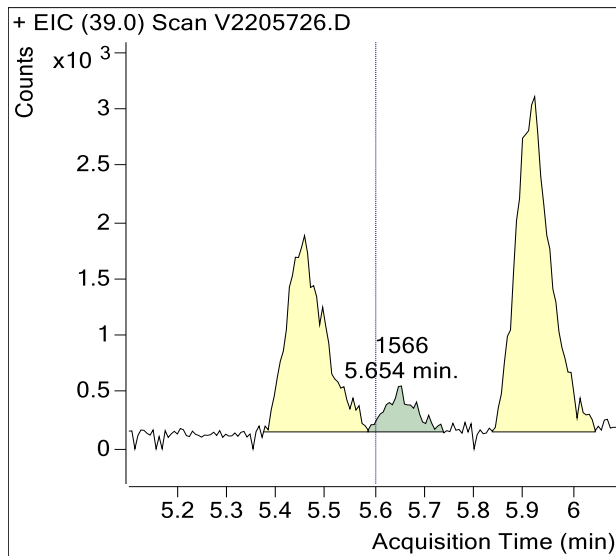
Sample Name : USSCL-PT09-S-20230327
Sample Info : C17211; Recollect
Data File : V2205726.D
Acquisition Date : 2023-04-21 23:05:29
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



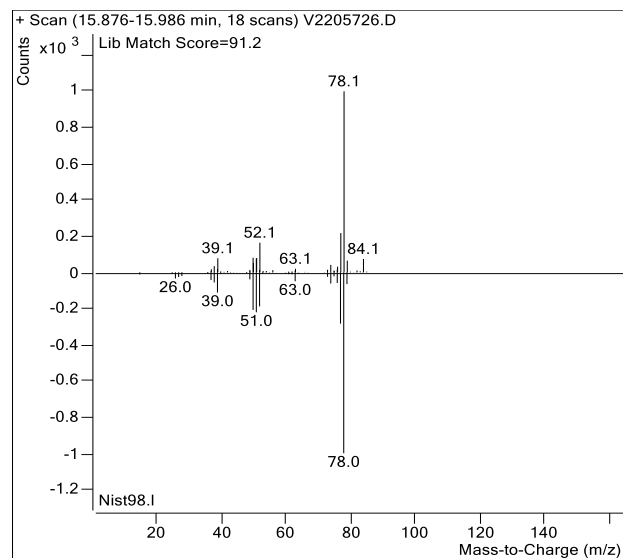
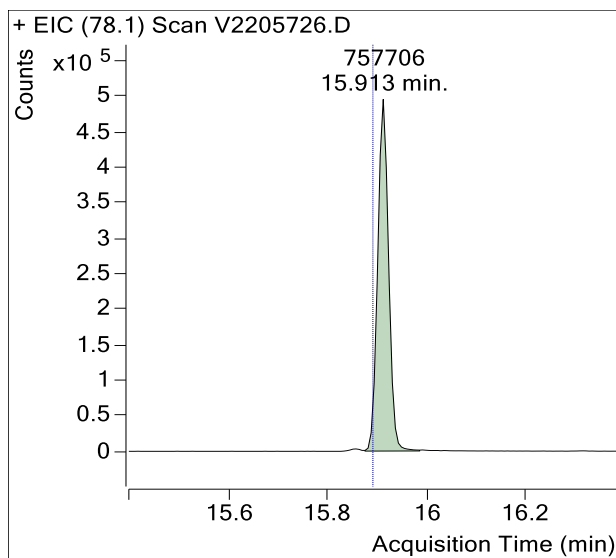
Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	1,566	
Benzene-d6 (IS)	15.84	837,677	
Benzene	15.90	757,706	
Toluene-d8 (IS)	18.42	803,587	
Toluene	18.51	718,827	
Ethylbenzene	20.57	20,268	
m-/p-Xylenes	20.75	75,112	
o-Xylene	21.21	27,530	

(m)=Manual Integration

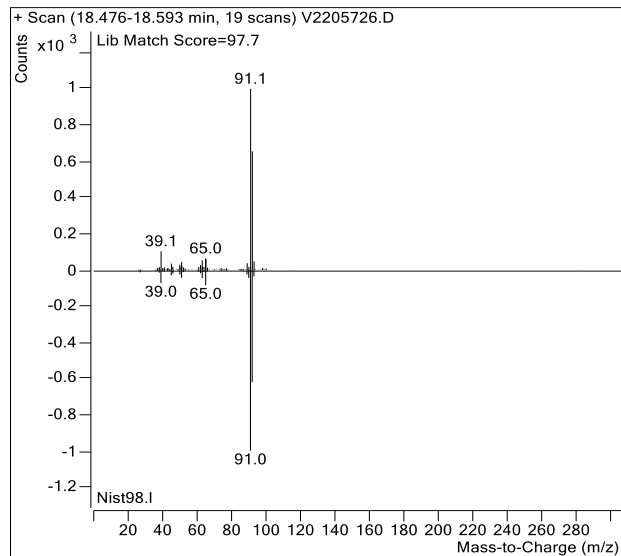
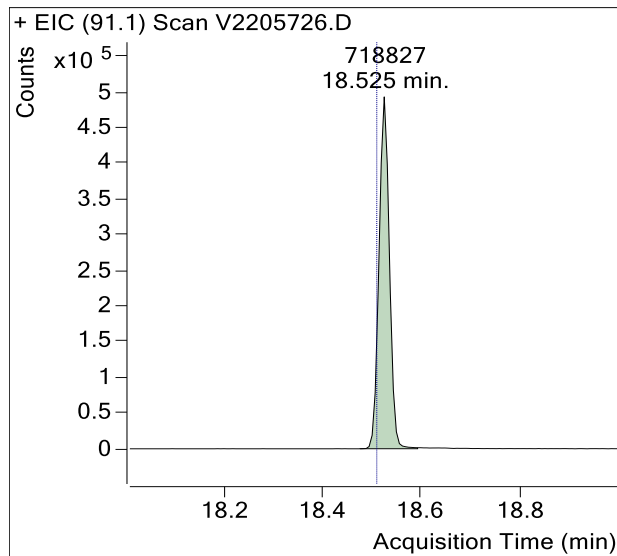
1,3-Butadiene



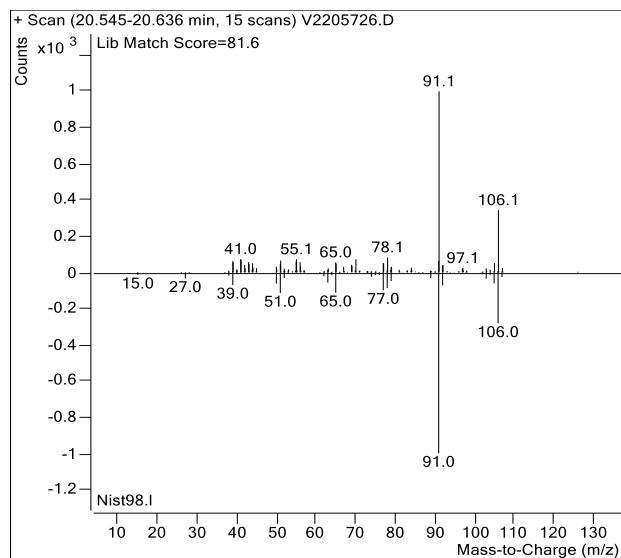
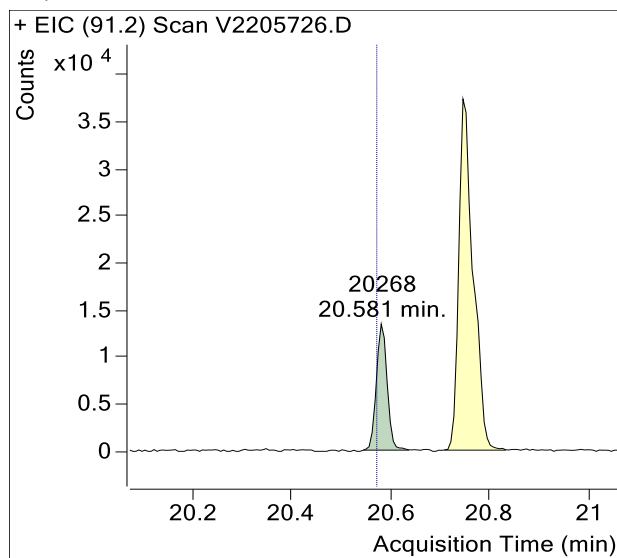
Benzene



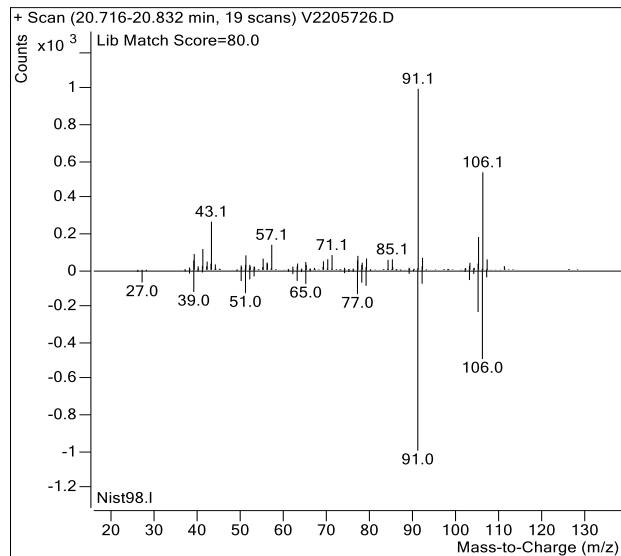
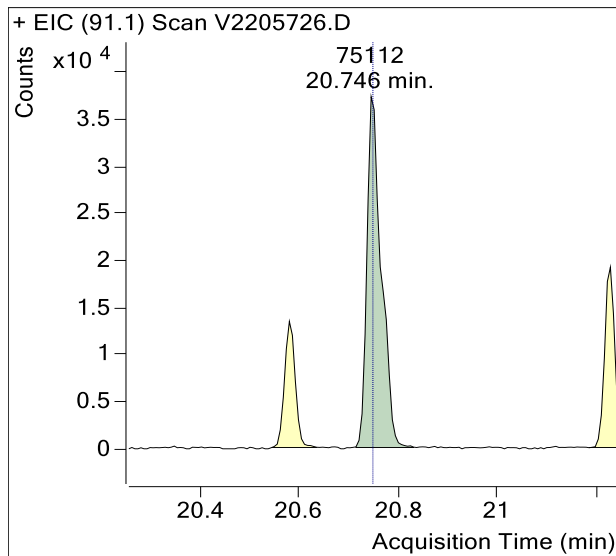
Toluene



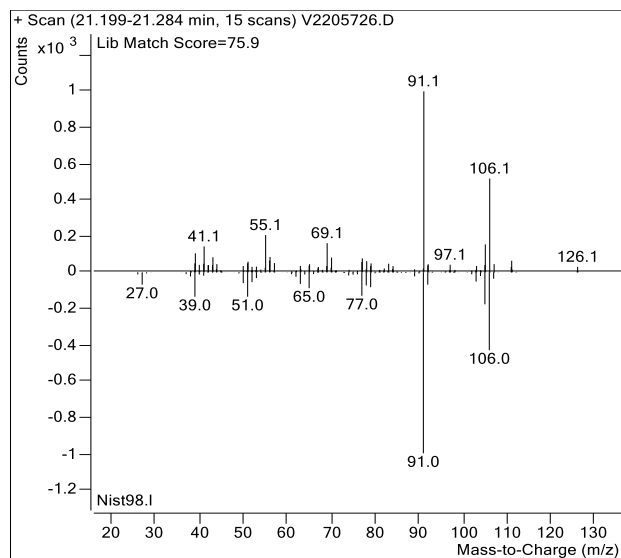
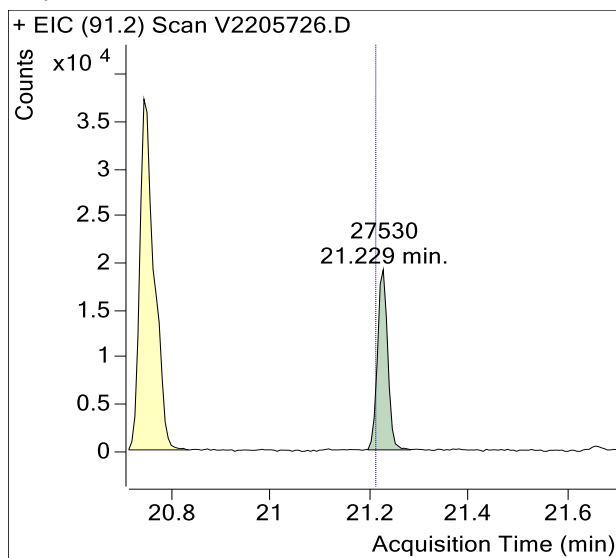
Ethylbenzene



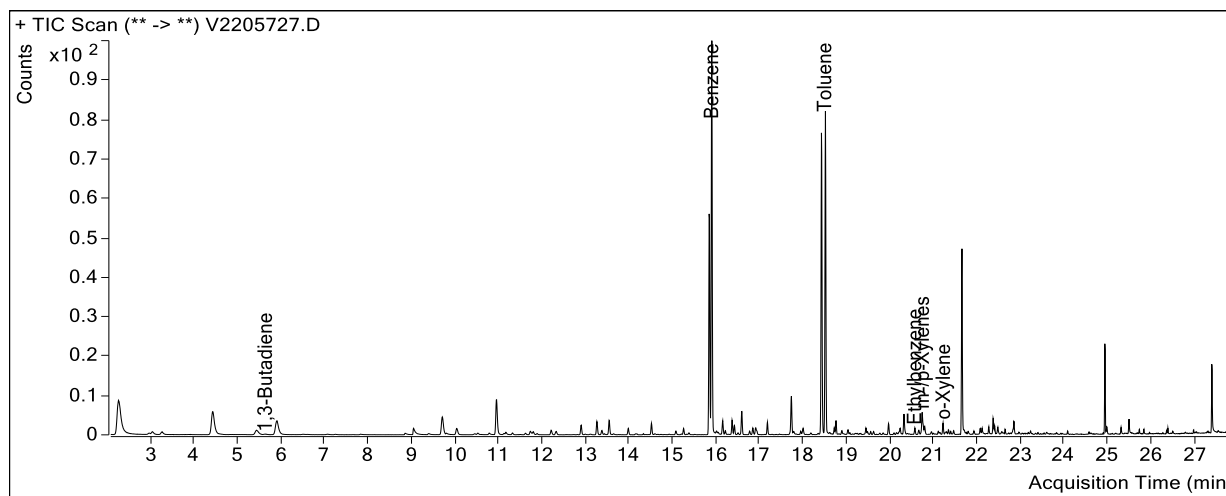
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT10-D-20230327
Sample Info : C01608; Recollect
Data File : V2205727.D
Acquisition Date : 2023-04-21 23:49:30
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

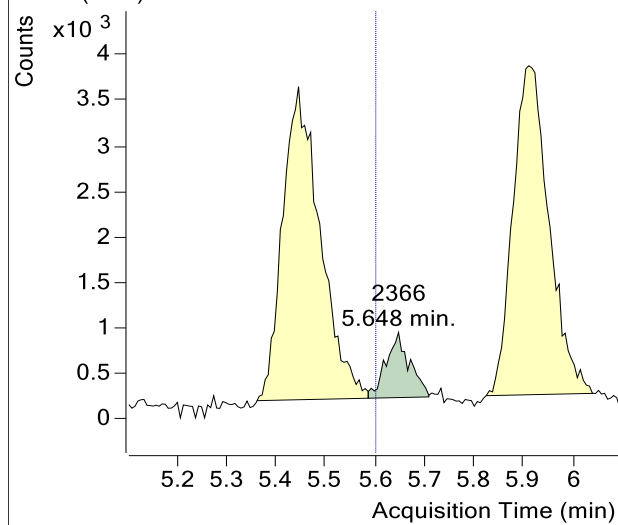


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	2,366	
Benzene-d6 (IS)	15.84	840,577	
Benzene	15.90	1,399,285	
Toluene-d8 (IS)	18.42	809,271	
Toluene	18.51	909,447	
Ethylbenzene	20.57	18,474	
m-/p-Xylenes	20.75	72,323	
o-Xylene	21.21	24,543	

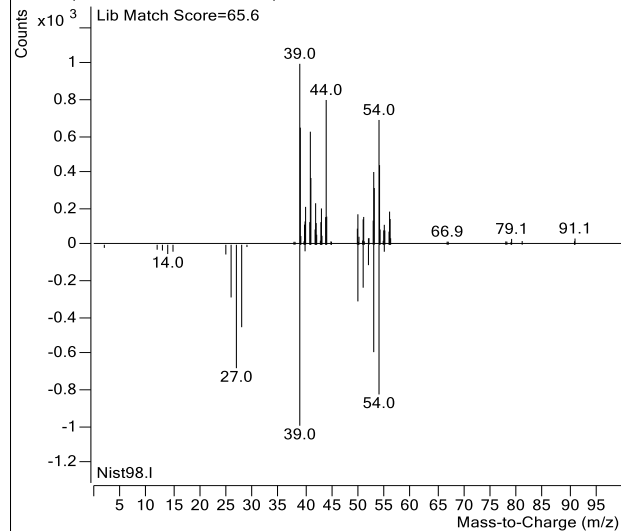
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205727.D

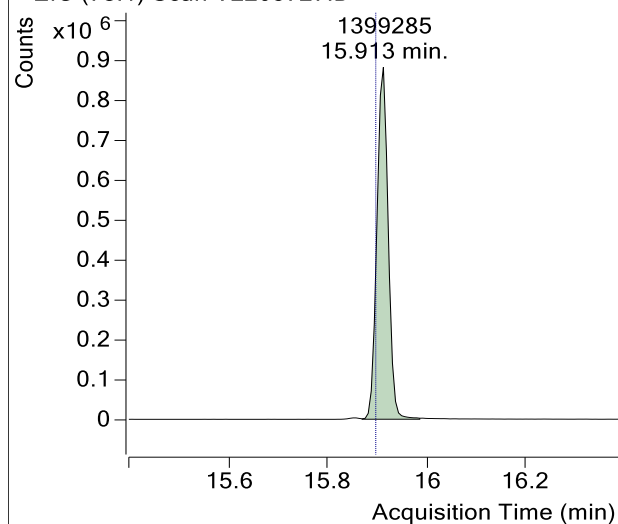


+ Scan (5.586-5.709 min, 21 scans) V2205727.D

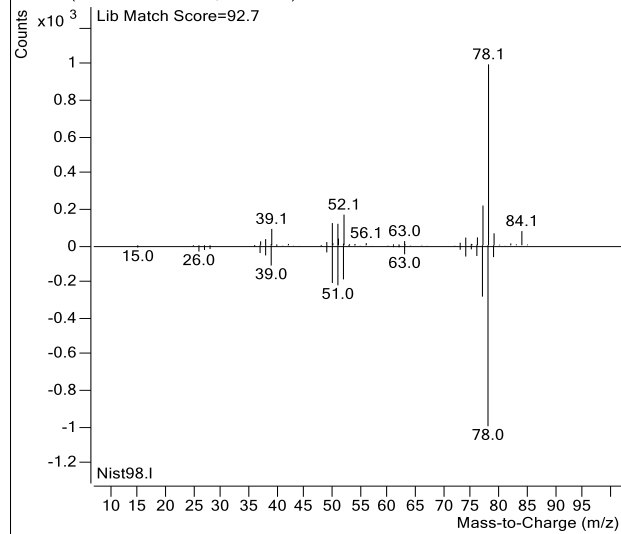


Benzene

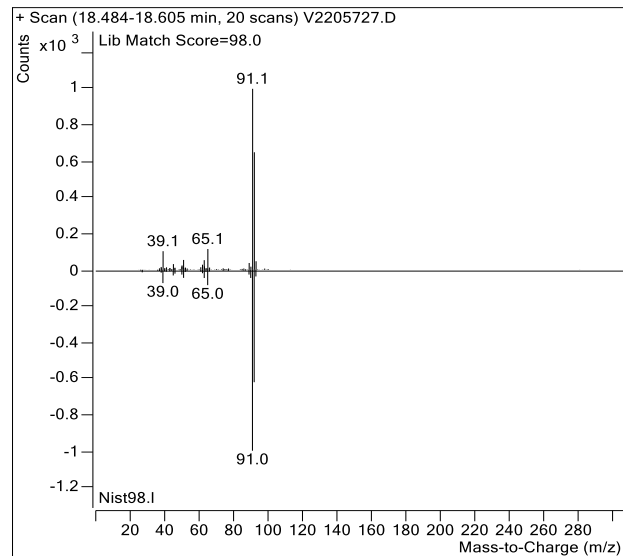
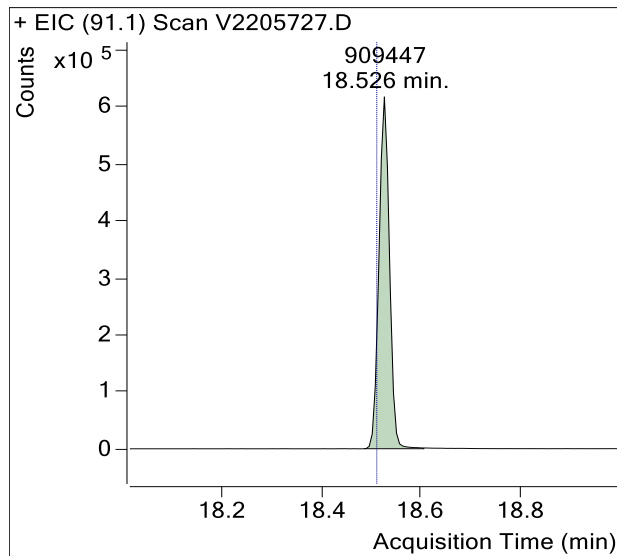
+ EIC (78.1) Scan V2205727.D



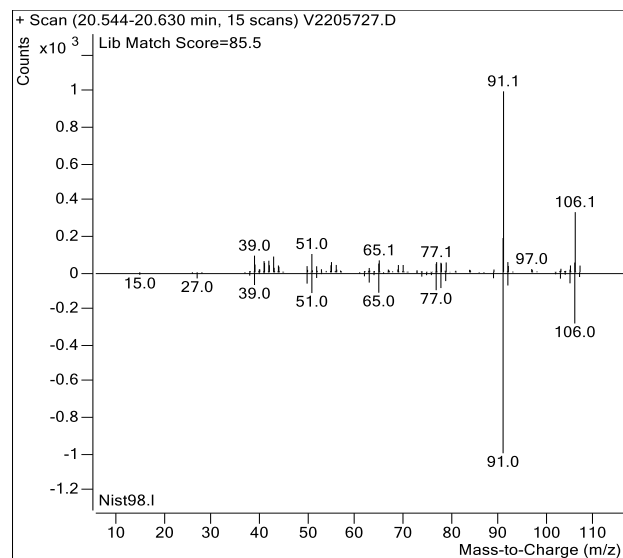
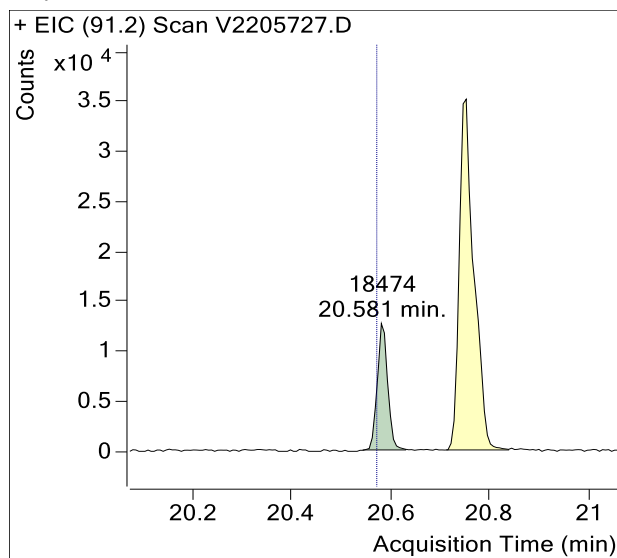
+ Scan (15.870-15.987 min, 20 scans) V2205727.D



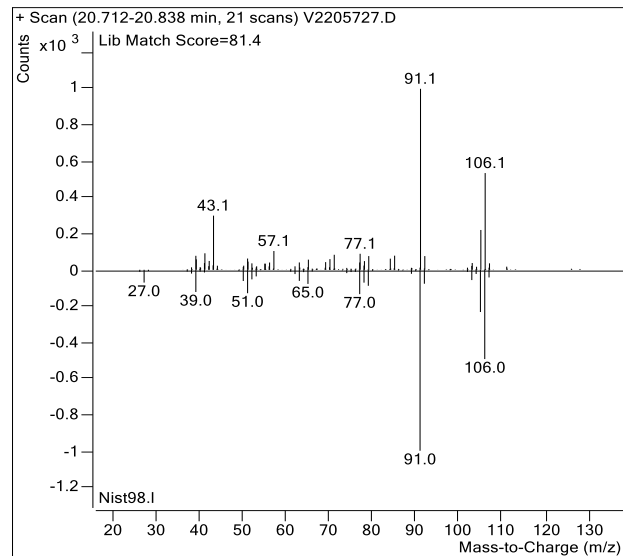
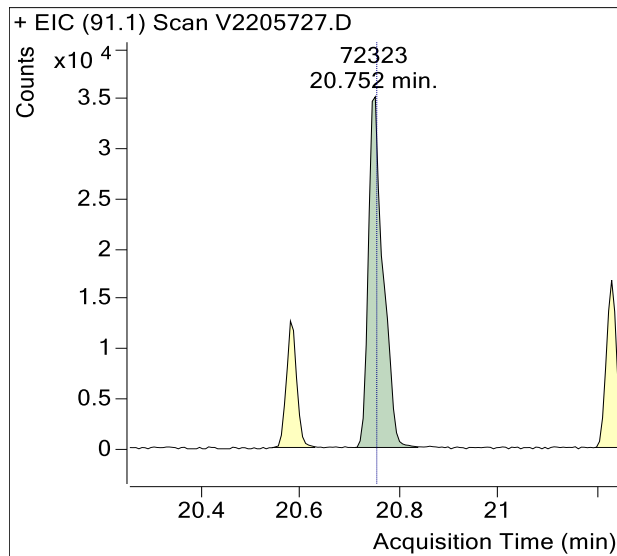
Toluene



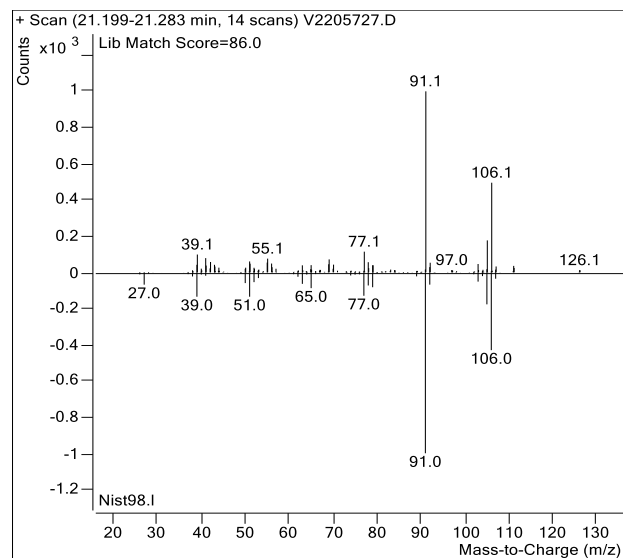
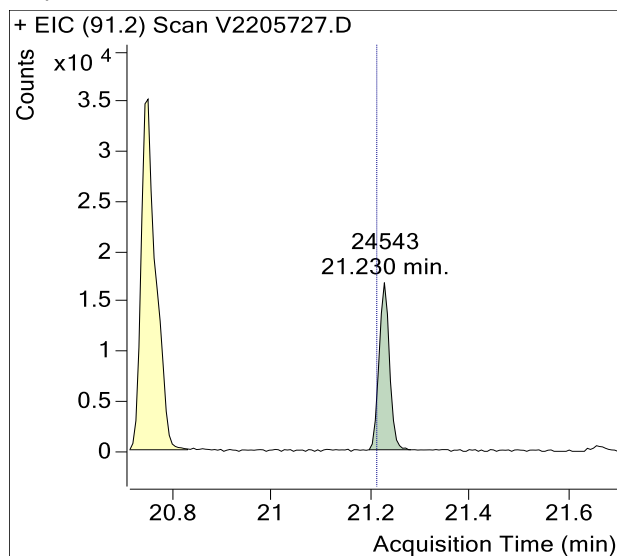
Ethylbenzene



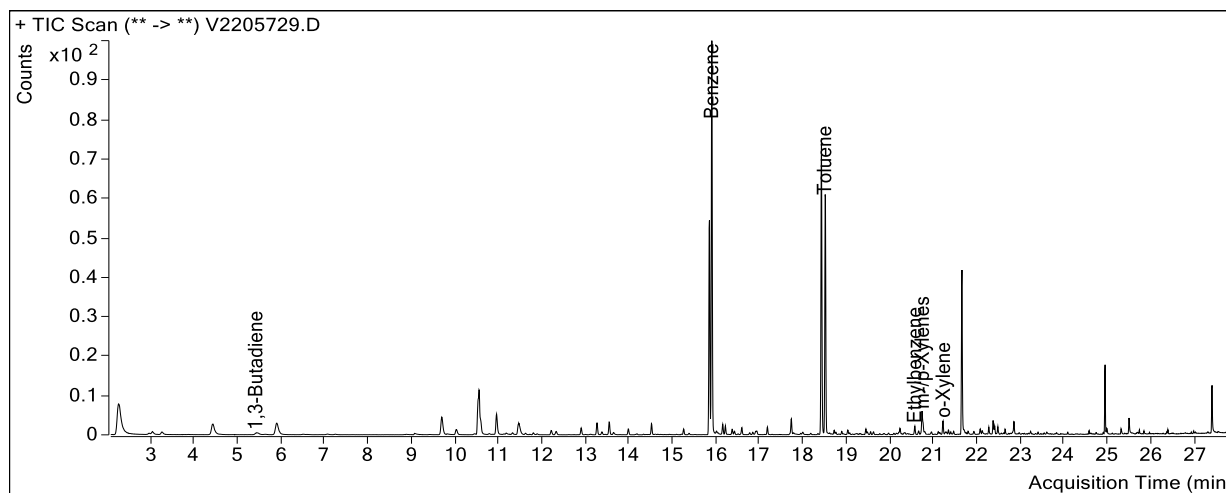
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT10-S-20230327
Sample Info : C20408; Recollect
Data File : V2205729.D
Acquisition Date : 2023-04-22 02:03:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

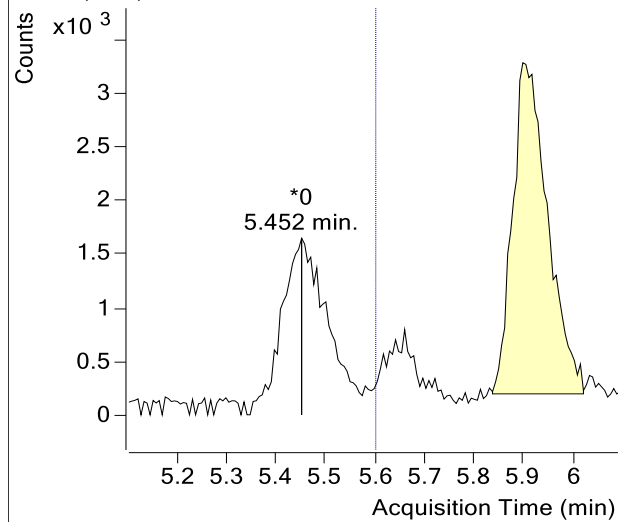


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	812,387	
Benzene	15.90	1,379,825	
Toluene-d8 (IS)	18.42	771,499	
Toluene	18.51	712,127	
Ethylbenzene	20.57	25,075	
m-/p-Xylenes	20.75	77,330	
o-Xylene	21.21	30,590	

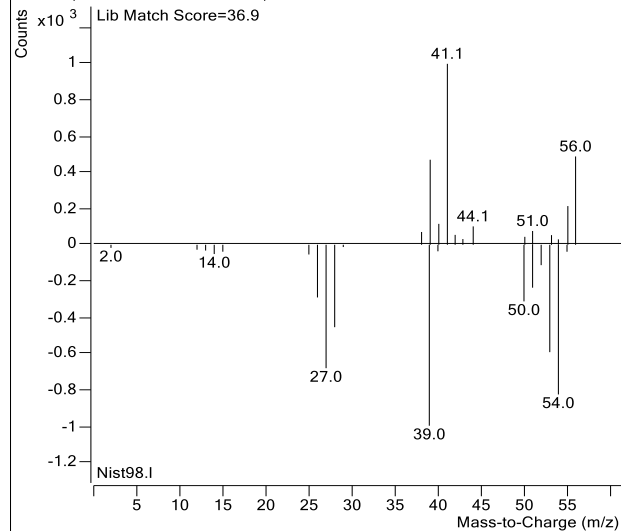
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205729.D

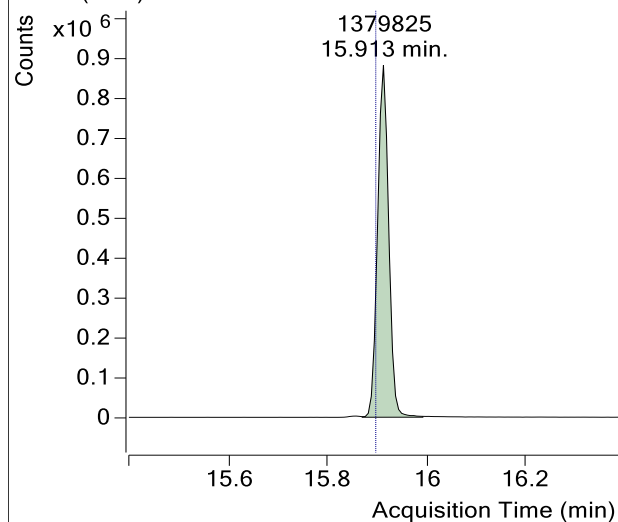


+ Scan (5.452-5.452 min, 1 scans) V2205729.D

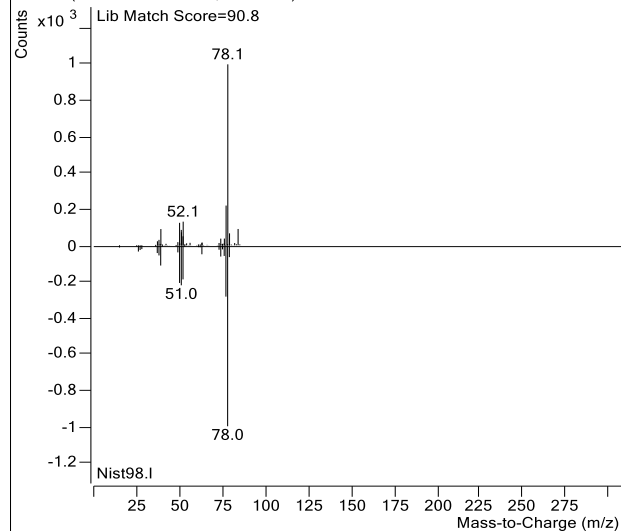


Benzene

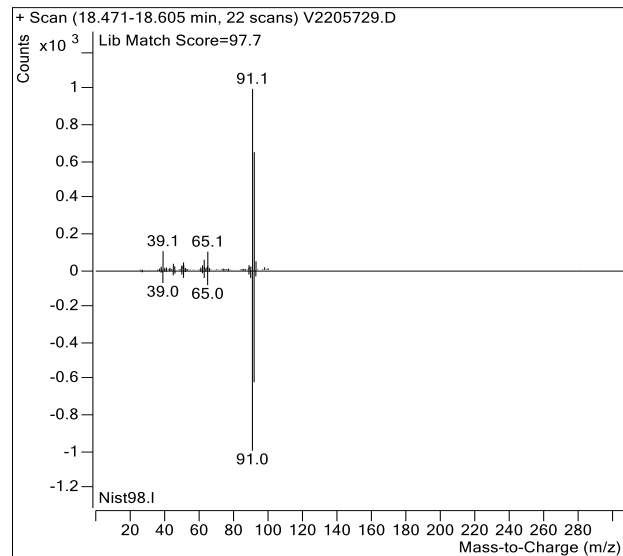
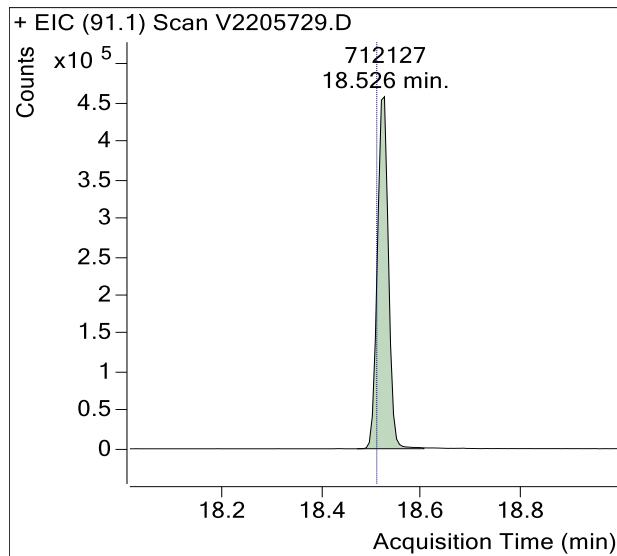
+ EIC (78.1) Scan V2205729.D



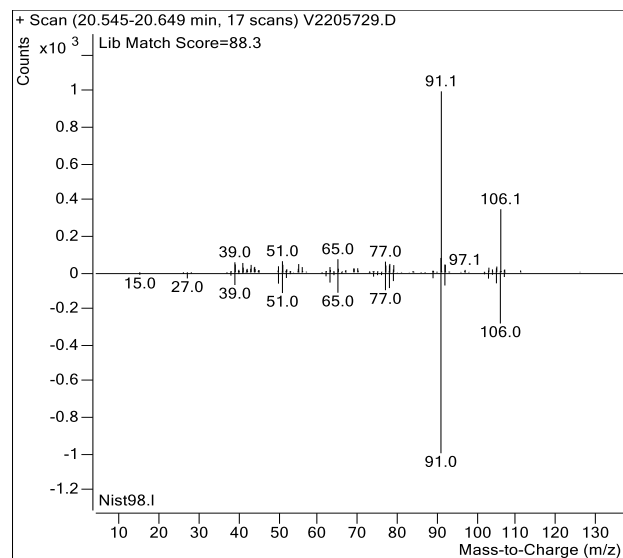
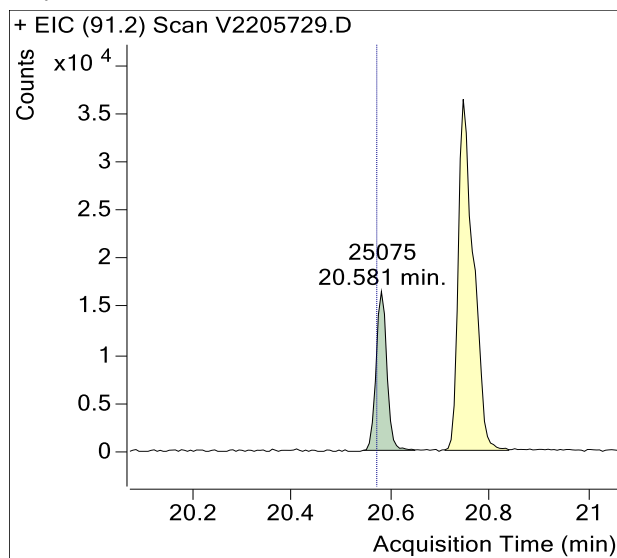
+ Scan (15.871-15.993 min, 20 scans) V2205729.D



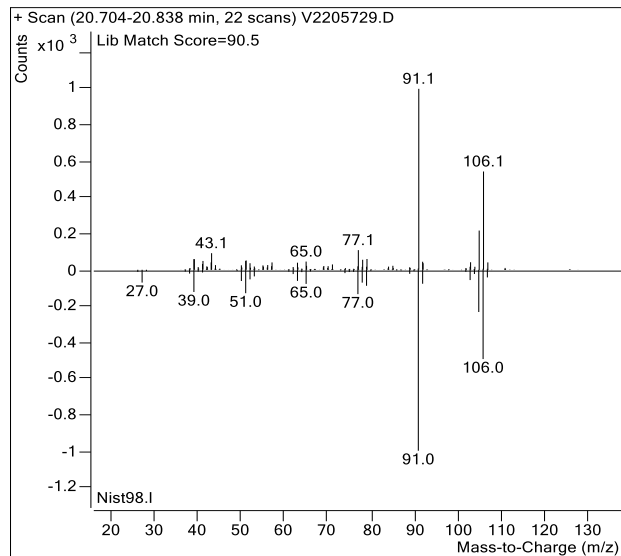
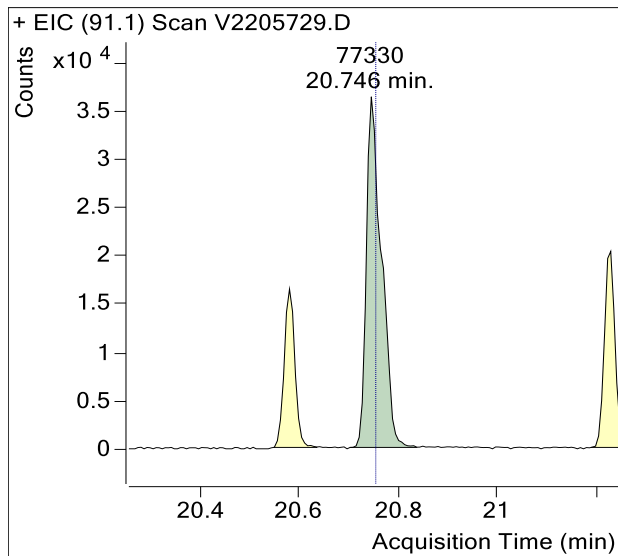
Toluene



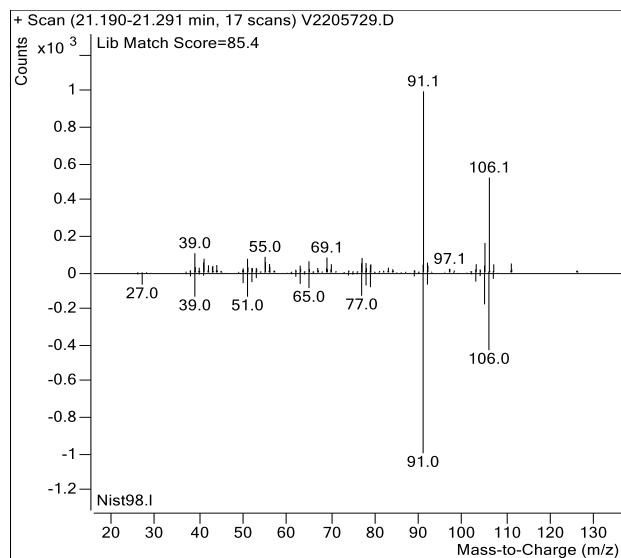
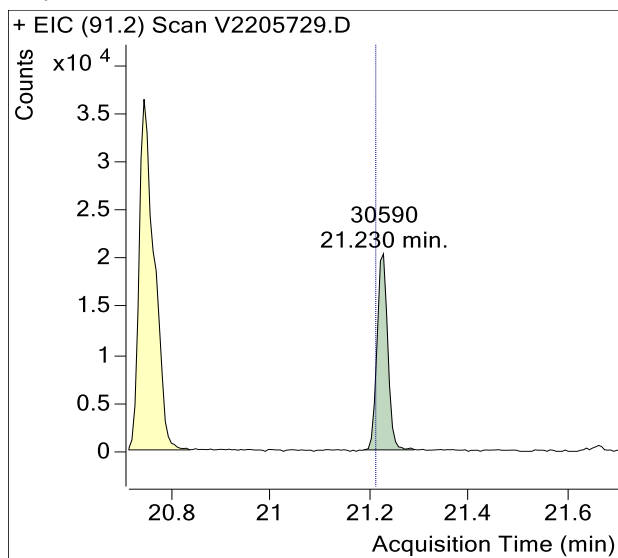
Ethylbenzene



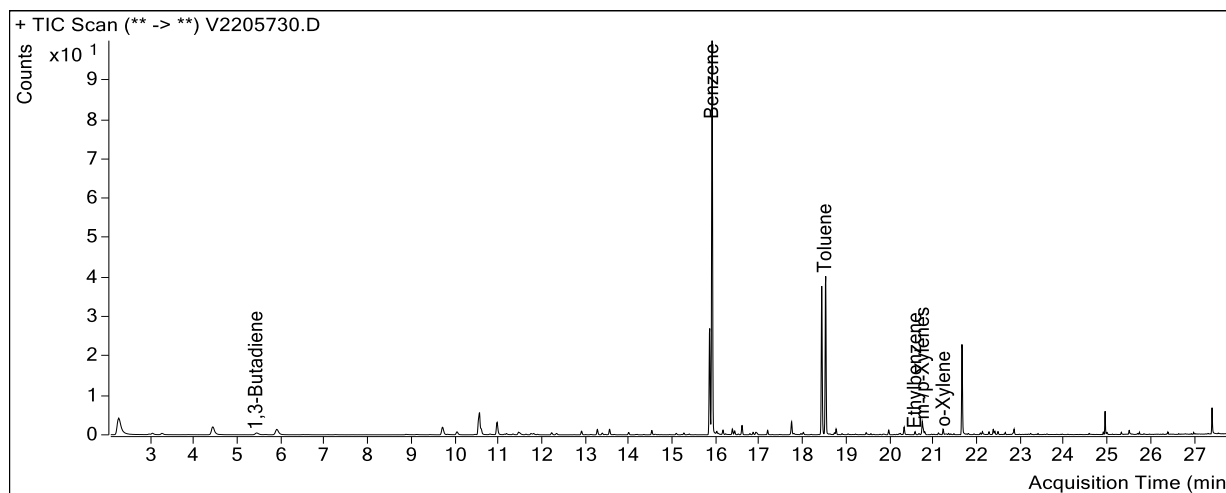
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT11-S-20230327
Sample Info : B53223; Recollect
Data File : V2205730.D
Acquisition Date : 2023-04-22 02:46:40
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

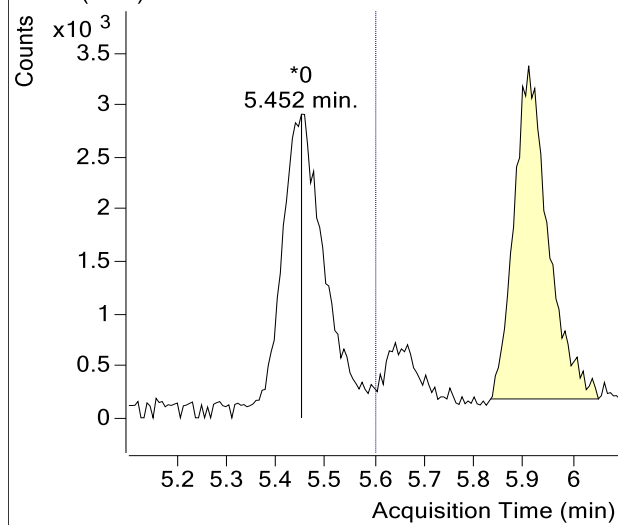


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	841,362	
Benzene	15.90	2,892,495	
Toluene-d8 (IS)	18.42	809,147	
Toluene	18.51	965,297	
Ethylbenzene	20.57	19,131	
m-/p-Xylenes	20.75	89,582	
o-Xylene	21.21	28,151	

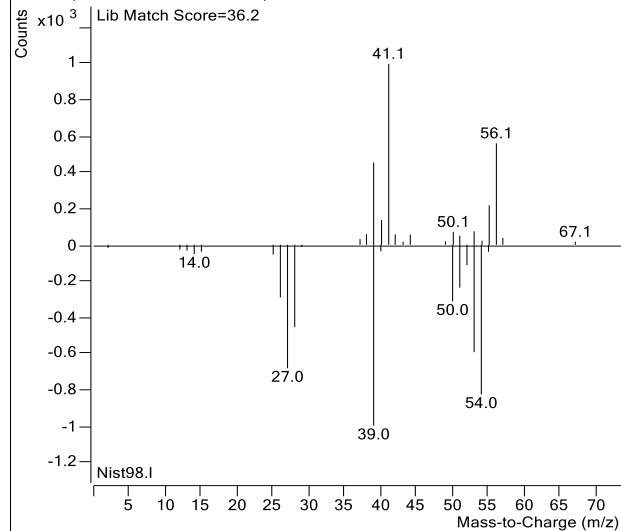
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205730.D

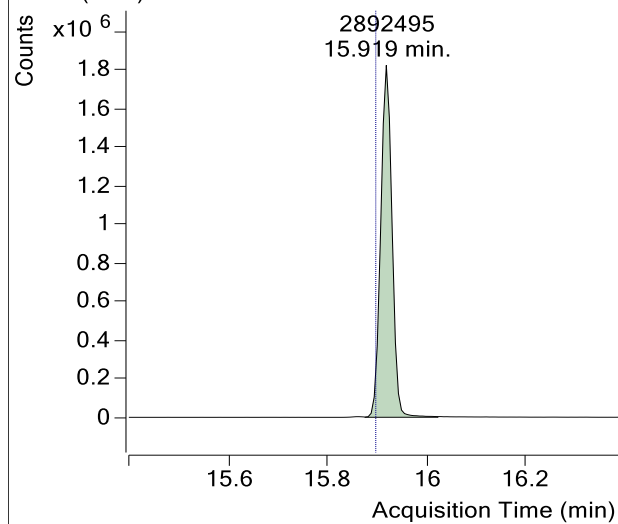


+ Scan (5.452-5.452 min, 1 scans) V2205730.D

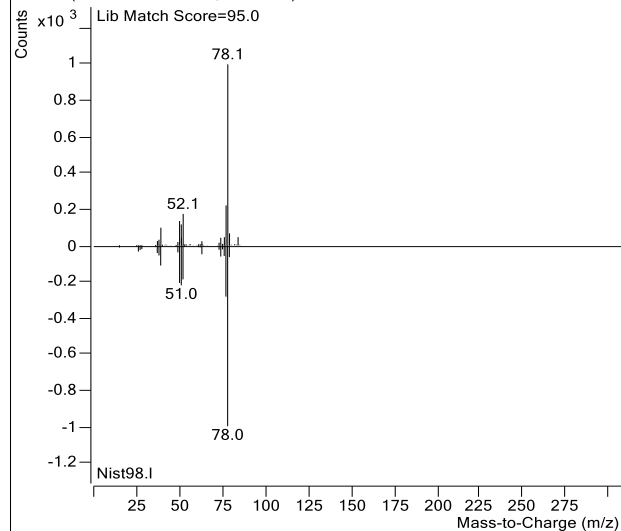


Benzene

+ EIC (78.1) Scan V2205730.D

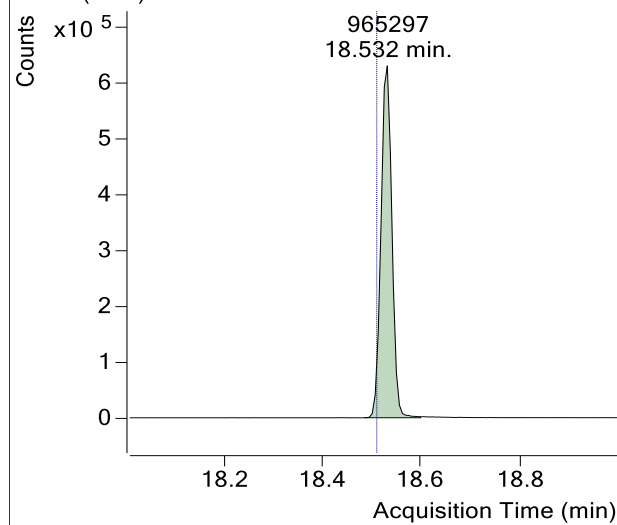


+ Scan (15.876-16.023 min, 25 scans) V2205730.D

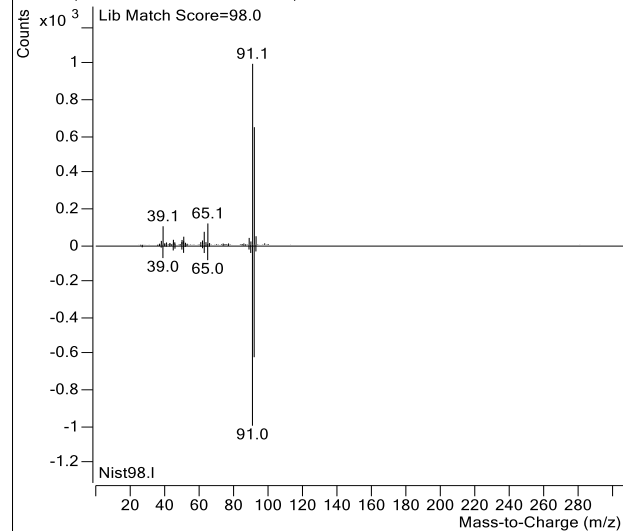


Toluene

+ EIC (91.1) Scan V2205730.D

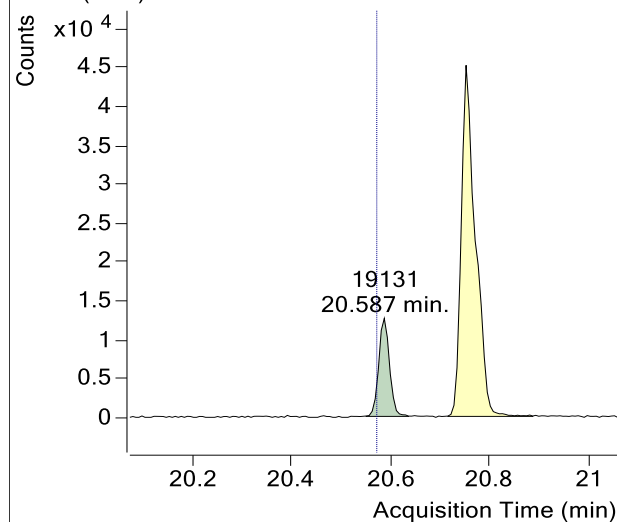


+ Scan (18.485-18.599 min, 19 scans) V2205730.D

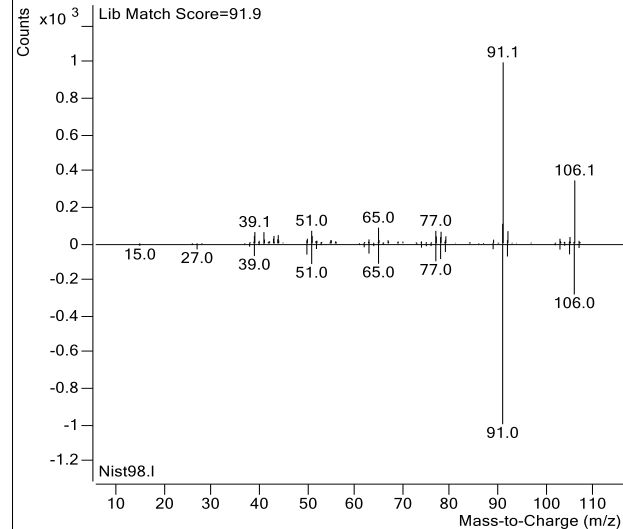


Ethylbenzene

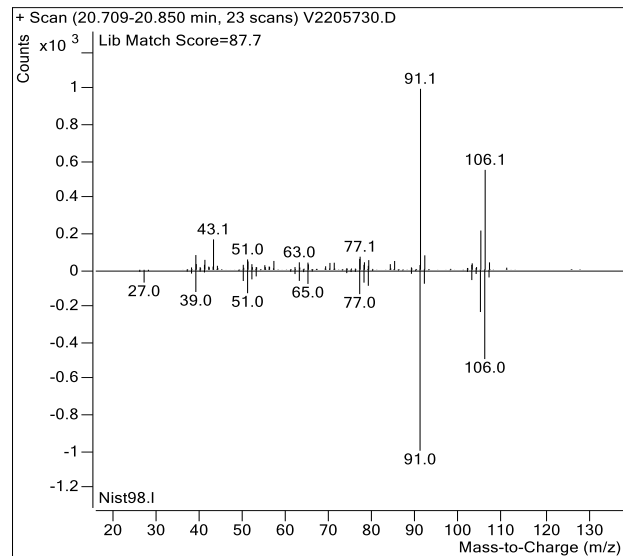
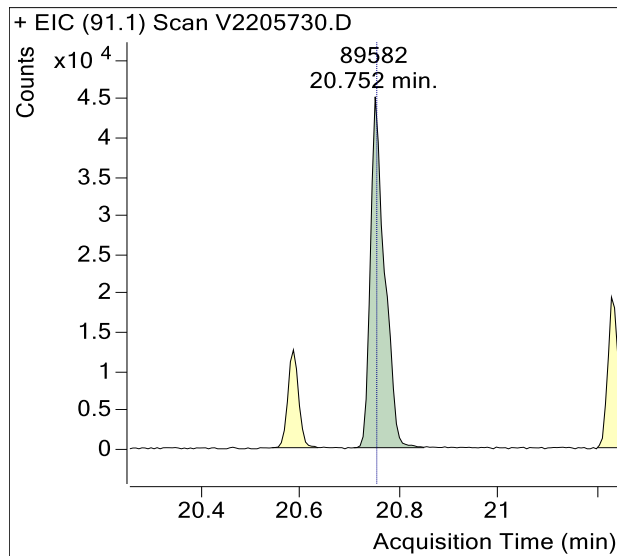
+ EIC (91.2) Scan V2205730.D



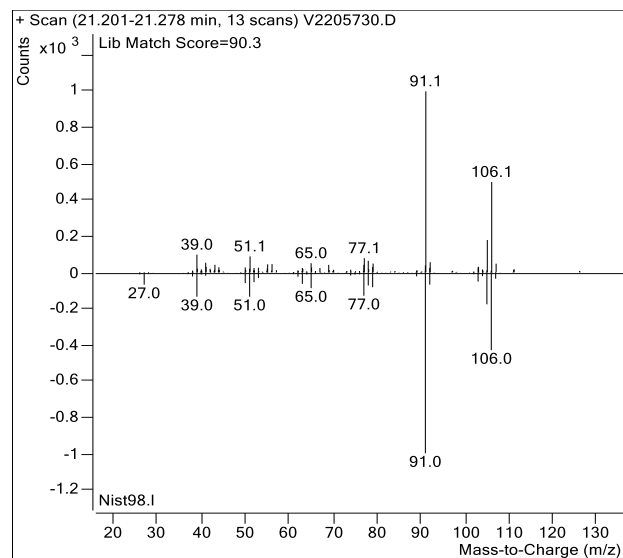
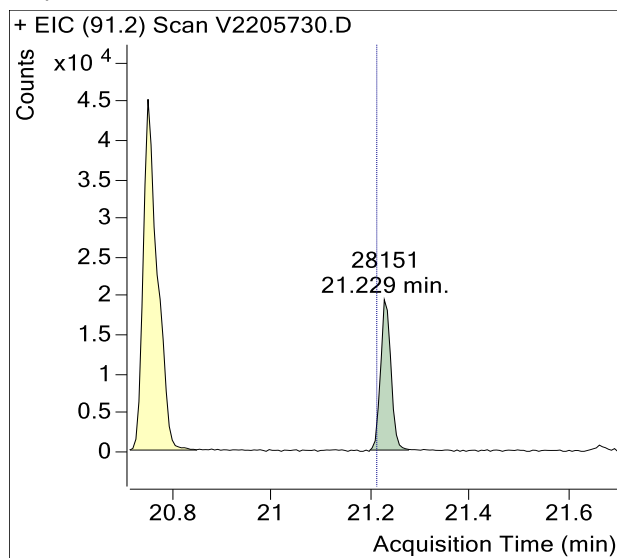
+ Scan (20.550-20.636 min, 15 scans) V2205730.D



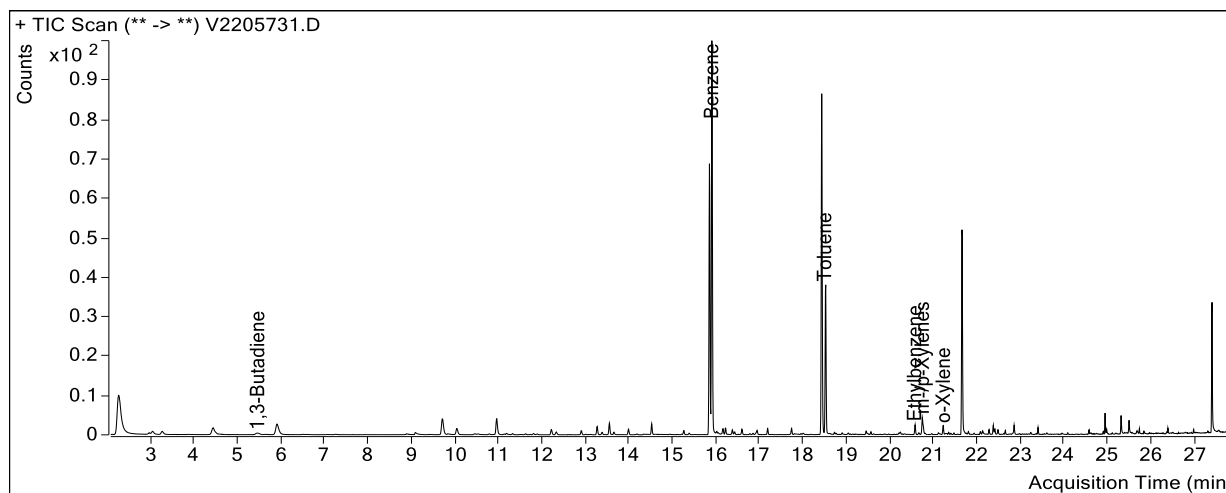
m-/p-Xylenes



o-Xylene



Sample Name : USSCL-PT12-S-20230327
Sample Info : C20400; Recollect
Data File : V2205731.D
Acquisition Date : 2023-04-22 03:29:37
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

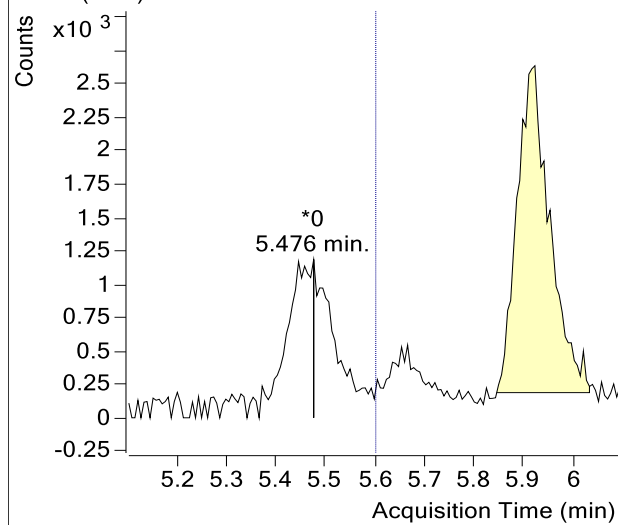


Compound	Retention Time	Response	Flags
1,3-Butadiene	5.60	0	m
Benzene-d6 (IS)	15.84	850,253	
Benzene	15.90	1,171,744	
Toluene-d8 (IS)	18.42	756,581	
Toluene	18.51	371,330	
Ethylbenzene	20.57	24,463	
m-/p-Xylenes	20.75	48,207	
o-Xylene	21.21	18,376	

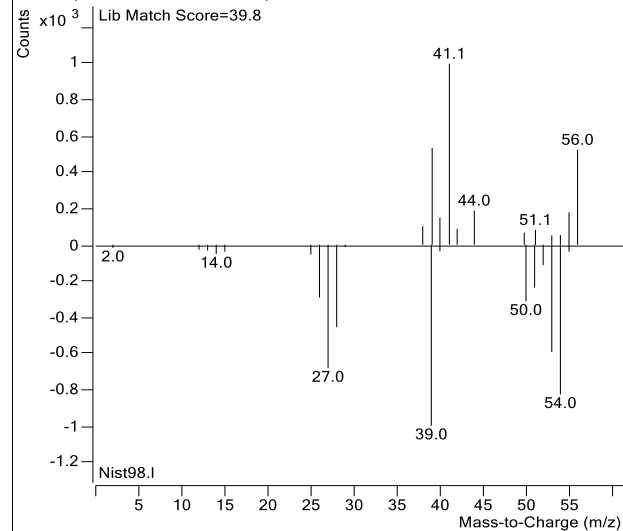
(m)=Manual Integration

1,3-Butadiene

+ EIC (39.0) Scan V2205731.D

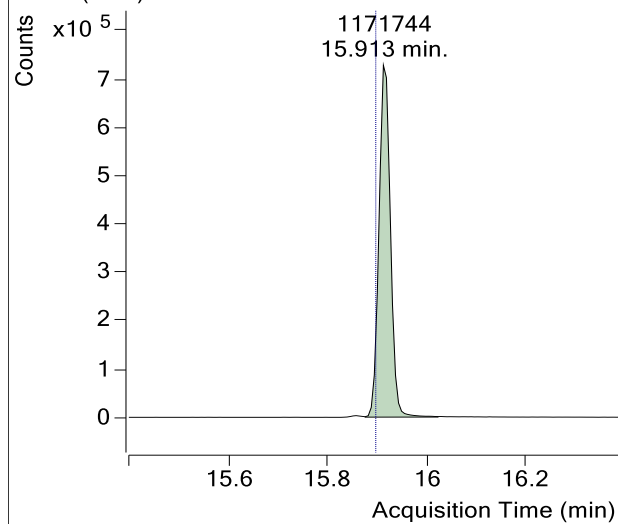


+ Scan (5.476-5.476 min, 1 scans) V2205731.D

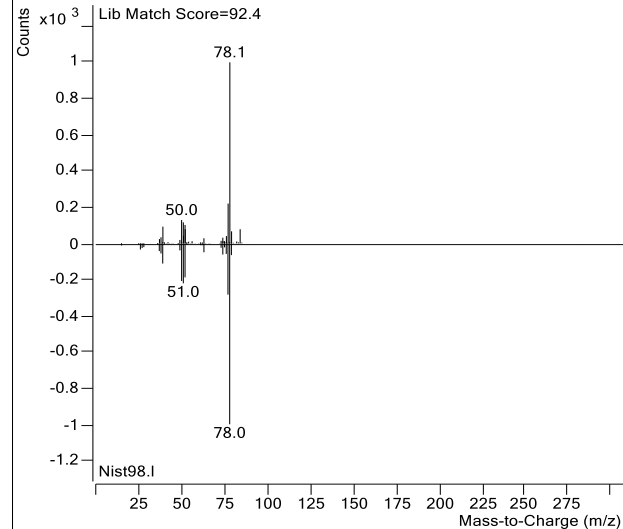


Benzene

+ EIC (78.1) Scan V2205731.D

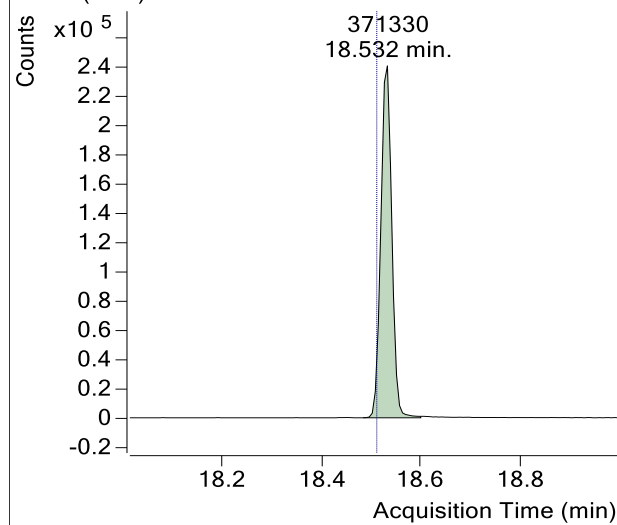


+ Scan (15.877-16.023 min, 25 scans) V2205731.D

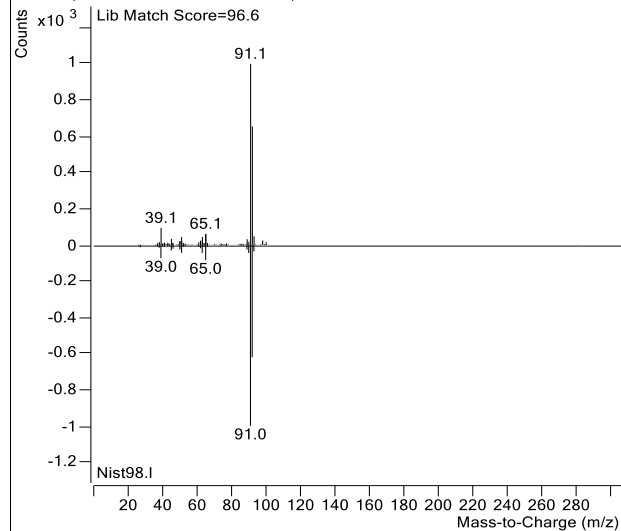


Toluene

+ EIC (91.1) Scan V2205731.D

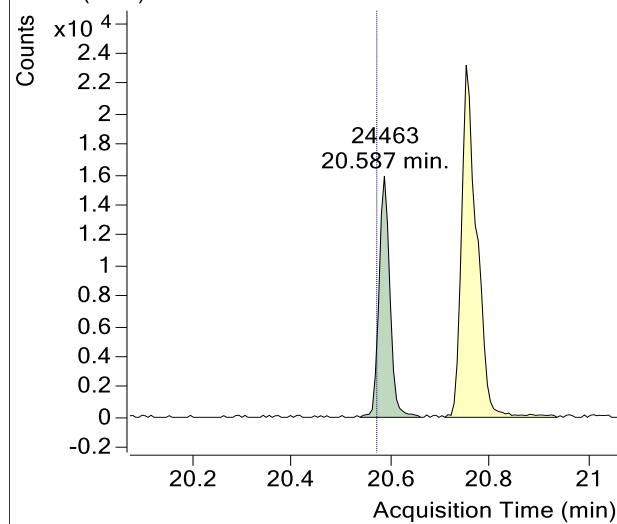


+ Scan (18.483-18.599 min, 20 scans) V2205731.D

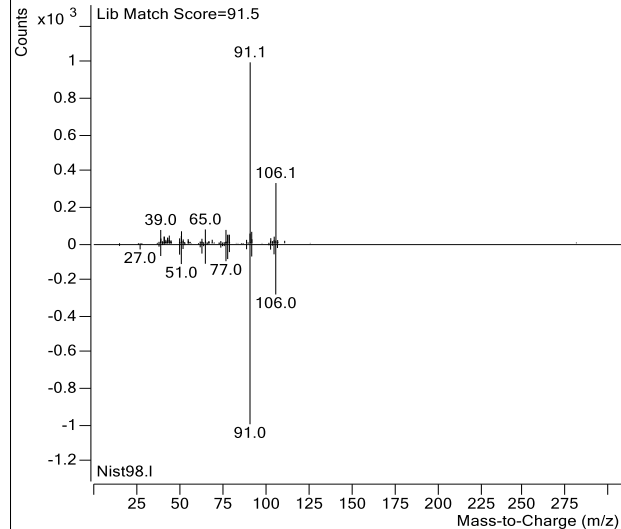


Ethylbenzene

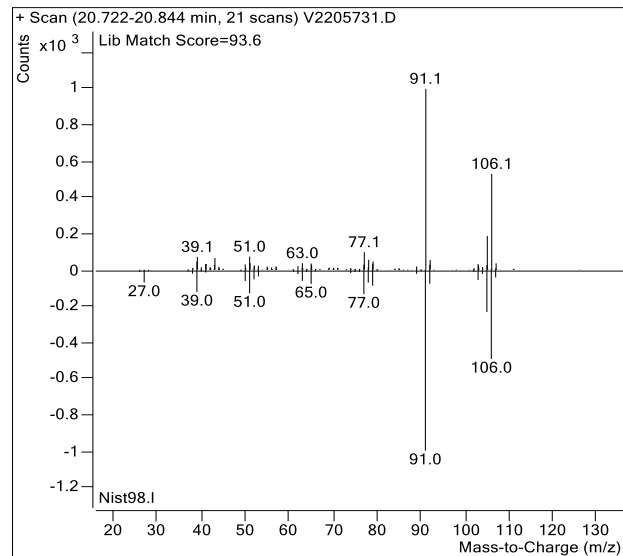
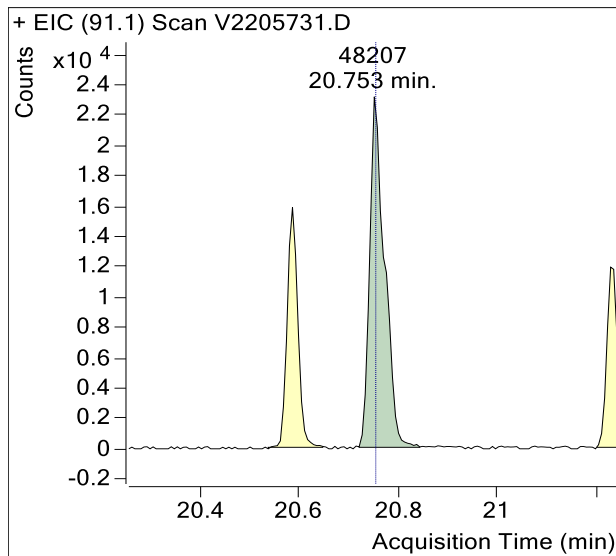
+ EIC (91.2) Scan V2205731.D



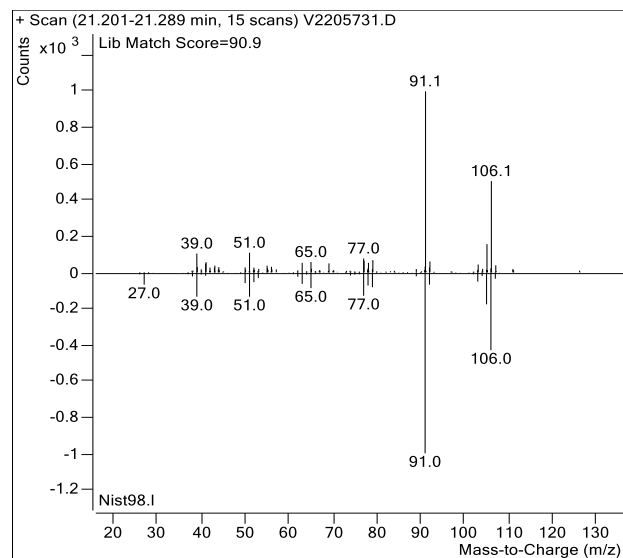
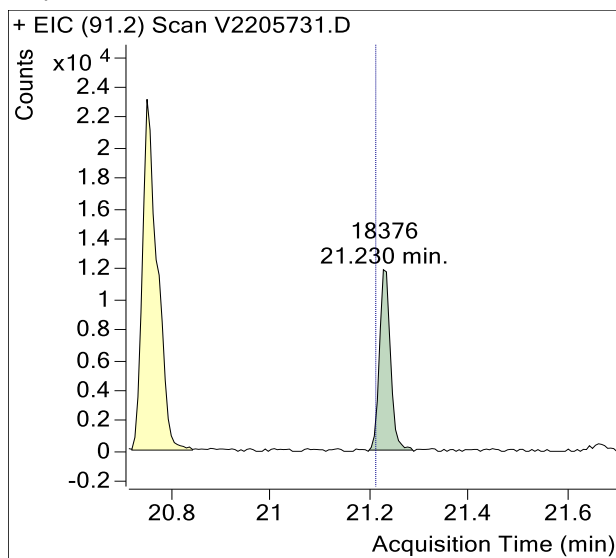
+ Scan (20.538-20.661 min, 21 scans) V2205731.D



m-/p-Xylenes



o-Xylene



Calibration Summary Reports



Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

1,3-Butadiene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.342	0.343	0.342	-0.27%	4.2%		Pass	
2023EE108 Method Blank-1	Blank		0.343	0.342			-8.1%	Pass	ND,Rc
M325B CCV 5	Check	0.325	0.343	0.342	-5.3%		-5.2%	Pass	
M325B CCV 5	Check	0.332	0.343	0.342	-3.3%		-4.1%	Pass	

Benzene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.893	1.003	0.893	-11%	4.2%		Pass	
2023EE108 Method Blank-1	Blank		1.003	0.893			-8.1%	Pass	ND,Rc
M325B CCV 5	Check	0.902	1.003	0.893	-10%		-5.2%	Pass	
M325B CCV 5	Check	0.906	1.003	0.893	-9.7%		-4.1%	Pass	

Ethylbenzene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	1.049	1.246	1.049	-16%	1.0%		Pass	
2023EE108 Method Blank-1	Blank		1.246	1.049			-6.8%	Pass	ND,Rc
M325B CCV 5	Check	1.058	1.246	1.049	-15%		-5.2%	Pass	
M325B CCV 5	Check	1.069	1.246	1.049	-14%		-3.1%	Pass	

m-/p-Xylenes Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.810	0.932	0.810	-13%	1.0%		Pass	
2023EE108 Method Blank-1	Blank		0.932	0.810			-6.8%	Pass	ND,Rc
M325B CCV 5	Check	0.806	0.932	0.810	-13%		-5.2%	Pass	
M325B CCV 5	Check	0.826	0.932	0.810	-11%		-3.1%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

o-Xylene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	0.826	0.974	0.826	-15%	1.0%		Pass	
2023EE108 Method Blank-1	Blank		0.974	0.826			-6.8%	Pass	ND,Rc
M325B CCV 5	Check	0.820	0.974	0.826	-16%		-5.2%	Pass	
M325B CCV 5	Check	0.839	0.974	0.826	-14%		-3.1%	Pass	

Toluene Calibration and Blanks

Sample Code	Type	RRF	ICAL RRF	Last CCV RRF	RRF Change	ISTD Change vs ICal	ISTD Change vs Concal	Pass/ Fail	Flags
M325B CCV 5	Cal	1.014	1.131	1.014	-10%	1.0%		Pass	
2023EE108 Method Blank-1	Blank		1.131	1.014			-6.8%	Pass	ND,Rc
M325B CCV 5	Check	1.016	1.131	1.014	-10%		-5.2%	Pass	
M325B CCV 5	Check	0.999	1.131	1.014	-12%		-3.1%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2023EE108-1 EPA Method 325B Analysis

Client No.: 00701-0002.00 Site: US Steel Corp - Clairton Works ICR

Calibration Curves

Method	Compound	Level	Cal File	Amount (ng)	Area	ISTD Amt (ng)	ISTD Area	RRF	Dev
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	1	V2205203.D	5.35	17229	92.4	863335	0.345	0.50%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	2	V2205204.D	10.70	32634	92.4	862797	0.327	-4.8%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	3	V2205205.D	21.39	65994	92.4	852272	0.335	-2.5%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	4	V2205206.D	42.79	133304	92.4	865809	0.333	-3.1%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	5	V2205207.D	106.97	366898	92.4	869320	0.365	6.3%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	6	V2205208.D	213.94	715324	92.4	864871	0.357	4.1%
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	7	V2205209.D	641.83	2061590	92.4	870023	0.341	-0.56%
						Avg:	864061	0.343	
						%RSD:	0.68%	4.0%	
V033023A_BUT_BTEX.quantmethod.xml	Benzene	1	V2205203.D	5.27	58533	92.4	863335	1.189	19%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	2	V2205204.D	10.54	99490	92.4	862797	1.011	0.84%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	3	V2205205.D	21.08	193461	92.4	852272	0.995	-0.74%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	4	V2205206.D	42.16	380485	92.4	865809	0.963	-3.9%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	5	V2205207.D	105.40	998732	92.4	869320	1.007	0.47%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	6	V2205208.D	210.80	1921756	92.4	864871	0.974	-2.8%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	7	V2205209.D	632.41	5229762	92.4	870023	0.879	-12%
						Avg:	864061	1.003	
						%RSD:	0.68%	9.3%	

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V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	2	V2205204.D	10.83	106201	109.3	842237	1.272	2.1%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	3	V2205205.D	21.67	213211	109.3	833818	1.290	3.5%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	4	V2205206.D	43.33	436609	109.3	840482	1.310	5.2%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	5	V2205207.D	108.34	1053557	109.3	847593	1.254	0.65%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	6	V2205208.D	216.67	2049169	109.3	838718	1.233	-1.1%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	7	V2205209.D	650.02	5563240	109.3	837447	1.117	-10%
						Avg:	840049	1.246	
						%RSD:	0.56%	5.5%	
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	2	V2205204.D	10.90	78094	109.3	842237	0.929	-0.26%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	3	V2205205.D	21.81	155705	109.3	833818	0.936	0.44%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	4	V2205206.D	43.62	325249	109.3	840482	0.970	4.1%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	5	V2205207.D	109.04	779701	109.3	847593	0.922	-1.0%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	6	V2205208.D	218.09	1539883	109.3	838718	0.920	-1.2%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	7	V2205209.D	654.27	4578956	109.3	837447	0.913	-2.0%
						Avg:	840049	0.932	
						%RSD:	0.56%	2.2%	

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Calibration Curves

Method	Compound	Level	Cal File	Amount (ng)	Area	ISTD Amt (ng)	ISTD Area	RRF	Dev
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	2	V2205204.D	10.96	85412	109.3	842237	1.011	3.8%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	3	V2205205.D	21.93	167271	109.3	833818	1.000	2.7%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	4	V2205206.D	43.86	351004	109.3	840482	1.041	6.9%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	5	V2205207.D	109.64	814026	109.3	847593	0.957	-1.7%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	6	V2205208.D	219.28	1593179	109.3	838718	0.947	-2.8%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	7	V2205209.D	657.85	4471401	109.3	837447	0.887	-8.9%
						Avg:	840049	0.974	
						%RSD:	0.56%	5.6%	
V033023A_BUT_BTEX.quantmethod.xml	Toluene	2	V2205204.D	10.95	101533	109.3	842237	1.204	6.4%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	3	V2205205.D	21.89	198690	109.3	833818	1.190	5.2%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	4	V2205206.D	43.78	385990	109.3	840482	1.147	1.4%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	5	V2205207.D	109.45	972222	109.3	847593	1.146	1.3%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	6	V2205208.D	218.91	1868010	109.3	838718	1.112	-1.7%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	7	V2205209.D	656.72	4977331	109.3	837447	0.989	-13%
						Avg:	840049	1.131	
						%RSD:	0.56%	6.8%	

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Method	Compound	Level	Cal File	Amount (ng)	Area	ISTD Amt (ng)	ISTD Area	RRF	Dev
V033023A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	ICV	V2205210.D	104.90	375855	92.4	865460	0.383	12%
V033023A_BUT_BTEX.quantmethod.xml	Benzene	ICV	V2205210.D	105.60	1026704	92.4	865460	1.038	3.5%
V033023A_BUT_BTEX.quantmethod.xml	Ethylbenzene	ICV	V2205210.D	108.53	1109904	109.3	838719	1.333	7%
V033023A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	ICV	V2205210.D	109.24	821374	109.3	838719	0.980	5.2%
V033023A_BUT_BTEX.quantmethod.xml	o-Xylene	ICV	V2205210.D	109.84	839084	109.3	838719	0.996	2.2%
V033023A_BUT_BTEX.quantmethod.xml	Toluene	ICV	V2205210.D	109.67	1015778	109.3	838719	1.207	6.7%

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