

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

Coke Oven ICR Sampling Event #03

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

Analytical Report (2022EE103)

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) and contains 88 pages.

Report Issued: 12/15/2022



Summary of Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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-20221108	B15113		ND	9.28			ND		ND		ND	1.51	
USSCL-PT02-S-20221108	B15076		ND	2.97			ND		ND		ND	1.32	
USSCL-PT03-S-20221108	B27991		ND	5.04			ND		ND		ND	1.58	
USSCL-PT04-S-20221108	B20148		ND	6.75			ND	0.744			ND	2.91	
USSCL-PT05-S-20221108	B43708		ND	2.79			ND		ND		ND	6.39	
USSCL-PT06-S-20221108	B29810		ND	4.01			ND		ND		ND	2.55	
USSCL-PT07-S-20221108	B49733		ND	1.28			ND		ND		ND	2.70	
USSCL-PT08-S-20221108	B31668		ND	2.52			ND		ND		ND	3.63	
USSCL-PT09-S-20221108	C01831		ND	10.9			ND	1.88		0.712		5.00	
USSCL-PT10-S-20221108	B43396		ND	32.7			ND	1.44			ND	7.51	
USSCL-PT10-D-20221108	B12139		ND	32.6			ND	1.54			ND	7.44	
USSCL-PT10-B-20221108	B43602		ND		ND		ND		ND		ND		ND
USSCL-PT11-S-20221108	C00707		ND	25.1			ND	0.953			ND	6.74	
USSCL-PT12-S-20221108	B27212		ND	4.48			ND	0.682			ND	2.33	

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

Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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-20221108	B15113				38.8	0.434	19,957	0.613	0.613	0.277	0.277	ND
USSCL-PT02-S-20221108	B15076				38.8	0.434	19,960	0.613	0.613	0.277	0.277	ND
USSCL-PT03-S-20221108	B27991				38.8	0.434	20,037	0.611	0.611	0.276	0.276	ND
USSCL-PT04-S-20221108	B20148				38.8	0.434	20,036	0.611	0.611	0.276	0.276	ND
USSCL-PT05-S-20221108	B43708				38.8	0.434	20,033	0.611	0.611	0.276	0.276	ND
USSCL-PT06-S-20221108	B29810				38.8	0.434	20,041	0.611	0.611	0.276	0.276	ND
USSCL-PT07-S-20221108	B49733				38.8	0.434	20,028	0.611	0.611	0.276	0.276	ND
USSCL-PT08-S-20221108	B31668				38.8	0.434	20,033	0.611	0.611	0.276	0.276	ND
USSCL-PT09-S-20221108	C01831				38.8	0.434	20,034	0.611	0.611	0.276	0.276	ND
USSCL-PT10-S-20221108	B43396				38.8	0.434	20,040	0.611	0.611	0.276	0.276	ND
USSCL-PT10-D-20221108	B12139				38.8	0.434	20,042	0.611	0.611	0.276	0.276	ND
USSCL-PT10-B-20221108	B43602				38.8	0.434	20,039	0.611	0.611	0.276	0.276	ND
USSCL-PT11-S-20221108	C00707				38.8	0.434	20,028	0.611	0.611	0.276	0.276	ND
USSCL-PT12-S-20221108	B27212				38.8	0.434	20,027	0.611	0.611	0.276	0.276	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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-20221108	B15113	9.28	2.91	120	38.8	0.646	19,957	0.194	0.413	0.0608	0.129	
USSCL-PT02-S-20221108	B15076	2.97	0.931	38.3	38.8	0.646	19,960	0.194	0.413	0.0608	0.129	
USSCL-PT03-S-20221108	B27991	5.04	1.58	65.1	38.8	0.646	20,037	0.193	0.411	0.0605	0.129	
USSCL-PT04-S-20221108	B20148	6.75	2.11	87.3	38.8	0.646	20,036	0.193	0.411	0.0605	0.129	
USSCL-PT05-S-20221108	B43708	2.79	0.874	36.1	38.8	0.646	20,033	0.193	0.411	0.0605	0.129	
USSCL-PT06-S-20221108	B29810	4.01	1.25	51.8	38.8	0.646	20,041	0.193	0.411	0.0605	0.129	
USSCL-PT07-S-20221108	B49733	1.28	0.401	16.5	38.8	0.646	20,028	0.193	0.411	0.0605	0.129	
USSCL-PT08-S-20221108	B31668	2.52	0.789	32.6	38.8	0.646	20,033	0.193	0.411	0.0605	0.129	
USSCL-PT09-S-20221108	C01831	10.9	3.40	140	38.8	0.646	20,034	0.193	0.411	0.0605	0.129	
USSCL-PT10-S-20221108	B43396	32.7	10.2	423	38.8	0.646	20,040	0.193	0.411	0.0605	0.129	
USSCL-PT10-D-20221108	B12139	32.6	10.2	422	38.8	0.646	20,042	0.193	0.411	0.0605	0.129	
USSCL-PT10-B-20221108	B43602				38.8	0.646	20,039	0.193	0.411	0.0605	0.129	ND
USSCL-PT11-S-20221108	C00707	25.1	7.86	324	38.8	0.646	20,028	0.193	0.411	0.0605	0.129	
USSCL-PT12-S-20221108	B27212	4.48	1.40	57.9	38.8	0.646	20,027	0.193	0.411	0.0606	0.129	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 EPA Method 325B Analysis

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

Ethylbenzene

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-20221108	B15113				38.8	0.443	19,957	0.618	0.618	0.142	0.142	ND
USSCL-PT02-S-20221108	B15076				38.8	0.443	19,960	0.618	0.618	0.142	0.142	ND
USSCL-PT03-S-20221108	B27991				38.8	0.443	20,037	0.615	0.615	0.142	0.142	ND
USSCL-PT04-S-20221108	B20148				38.8	0.443	20,036	0.615	0.615	0.142	0.142	ND
USSCL-PT05-S-20221108	B43708				38.8	0.443	20,033	0.615	0.615	0.142	0.142	ND
USSCL-PT06-S-20221108	B29810				38.8	0.443	20,041	0.615	0.615	0.142	0.142	ND
USSCL-PT07-S-20221108	B49733				38.8	0.443	20,028	0.616	0.616	0.142	0.142	ND
USSCL-PT08-S-20221108	B31668				38.8	0.443	20,033	0.615	0.615	0.142	0.142	ND
USSCL-PT09-S-20221108	C01831				38.8	0.443	20,034	0.615	0.615	0.142	0.142	ND
USSCL-PT10-S-20221108	B43396				38.8	0.443	20,040	0.615	0.615	0.142	0.142	ND
USSCL-PT10-D-20221108	B12139				38.8	0.443	20,042	0.615	0.615	0.142	0.142	ND
USSCL-PT10-B-20221108	B43602				38.8	0.443	20,039	0.615	0.615	0.142	0.142	ND
USSCL-PT11-S-20221108	C00707				38.8	0.443	20,028	0.616	0.616	0.142	0.142	ND
USSCL-PT12-S-20221108	B27212				38.8	0.443	20,027	0.616	0.616	0.142	0.142	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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/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-20221108	B15113				38.8	0.443	19,957	0.622	0.622	0.143	0.143	ND
USSCL-PT02-S-20221108	B15076				38.8	0.443	19,960	0.622	0.622	0.143	0.143	ND
USSCL-PT03-S-20221108	B27991				38.8	0.443	20,037	0.619	0.619	0.143	0.143	ND
USSCL-PT04-S-20221108	B20148	0.744	0.171	6.61	38.8	0.443	20,036	0.619	0.619	0.143	0.143	
USSCL-PT05-S-20221108	B43708				38.8	0.443	20,033	0.619	0.619	0.143	0.143	ND
USSCL-PT06-S-20221108	B29810				38.8	0.443	20,041	0.619	0.619	0.143	0.143	ND
USSCL-PT07-S-20221108	B49733				38.8	0.443	20,028	0.620	0.620	0.143	0.143	ND
USSCL-PT08-S-20221108	B31668				38.8	0.443	20,033	0.619	0.619	0.143	0.143	ND
USSCL-PT09-S-20221108	C01831	1.88	0.432	16.7	38.8	0.443	20,034	0.619	0.619	0.143	0.143	
USSCL-PT10-S-20221108	B43396	1.44	0.332	12.8	38.8	0.443	20,040	0.619	0.619	0.143	0.143	
USSCL-PT10-D-20221108	B12139	1.54	0.356	13.7	38.8	0.443	20,042	0.619	0.619	0.143	0.143	
USSCL-PT10-B-20221108	B43602				38.8	0.443	20,039	0.619	0.619	0.143	0.143	ND
USSCL-PT11-S-20221108	C00707	0.953	0.220	8.46	38.8	0.443	20,028	0.620	0.620	0.143	0.143	
USSCL-PT12-S-20221108	B27212	0.682	0.157	6.06	38.8	0.443	20,027	0.620	0.620	0.143	0.143	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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-20221108	B15113				38.8	0.443	19,957	0.625	0.625	0.144	0.144	ND
USSCL-PT02-S-20221108	B15076				38.8	0.443	19,960	0.625	0.625	0.144	0.144	ND
USSCL-PT03-S-20221108	B27991				38.8	0.443	20,037	0.623	0.623	0.144	0.144	ND
USSCL-PT04-S-20221108	B20148				38.8	0.443	20,036	0.623	0.623	0.144	0.144	ND
USSCL-PT05-S-20221108	B43708				38.8	0.443	20,033	0.623	0.623	0.144	0.144	ND
USSCL-PT06-S-20221108	B29810				38.8	0.443	20,041	0.623	0.623	0.144	0.144	ND
USSCL-PT07-S-20221108	B49733				38.8	0.443	20,028	0.623	0.623	0.144	0.144	ND
USSCL-PT08-S-20221108	B31668				38.8	0.443	20,033	0.623	0.623	0.144	0.144	ND
USSCL-PT09-S-20221108	C01831	0.712	0.164	6.33	38.8	0.443	20,034	0.623	0.623	0.144	0.144	
USSCL-PT10-S-20221108	B43396				38.8	0.443	20,040	0.623	0.623	0.144	0.144	ND
USSCL-PT10-D-20221108	B12139				38.8	0.443	20,042	0.623	0.623	0.143	0.143	ND
USSCL-PT10-B-20221108	B43602				38.8	0.443	20,039	0.623	0.623	0.144	0.144	ND
USSCL-PT11-S-20221108	C00707				38.8	0.443	20,028	0.623	0.623	0.144	0.144	ND
USSCL-PT12-S-20221108	B27212				38.8	0.443	20,027	0.623	0.623	0.144	0.144	ND

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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-20221108	B15113	1.51	0.402	15.1	38.8	0.501	19,957	0.250	0.552	0.0664	0.147	
USSCL-PT02-S-20221108	B15076	1.32	0.349	13.2	38.8	0.501	19,960	0.250	0.552	0.0664	0.147	
USSCL-PT03-S-20221108	B27991	1.58	0.420	15.9	38.8	0.501	20,037	0.249	0.550	0.0661	0.146	
USSCL-PT04-S-20221108	B20148	2.91	0.773	29.2	38.8	0.501	20,036	0.249	0.550	0.0661	0.146	
USSCL-PT05-S-20221108	B43708	6.39	1.70	64.1	38.8	0.501	20,033	0.249	0.550	0.0661	0.146	
USSCL-PT06-S-20221108	B29810	2.55	0.676	25.6	38.8	0.501	20,041	0.249	0.550	0.0661	0.146	
USSCL-PT07-S-20221108	B49733	2.70	0.716	27.1	38.8	0.501	20,028	0.249	0.550	0.0661	0.146	
USSCL-PT08-S-20221108	B31668	3.63	0.965	36.5	38.8	0.501	20,033	0.249	0.550	0.0661	0.146	
USSCL-PT09-S-20221108	C01831	5.00	1.33	50.2	38.8	0.501	20,034	0.249	0.550	0.0661	0.146	
USSCL-PT10-S-20221108	B43396	7.51	1.99	75.4	38.8	0.501	20,040	0.249	0.550	0.0661	0.146	
USSCL-PT10-D-20221108	B12139	7.44	1.98	74.8	38.8	0.501	20,042	0.249	0.550	0.0661	0.146	
USSCL-PT10-B-20221108	B43602				38.8	0.501	20,039	0.249	0.550	0.0661	0.146	ND
USSCL-PT11-S-20221108	C00707	6.74	1.79	67.6	38.8	0.501	20,028	0.249	0.550	0.0661	0.146	
USSCL-PT12-S-20221108	B27212	2.33	0.619	23.4	38.8	0.501	20,027	0.249	0.550	0.0661	0.146	

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

QC

Enthalpy Analytical

Company: All4, Inc.
Job No.: 2022EE103-1 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-20221108	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass	ND	Pass
Duplicates (difference)	USSCL-PT10-D-20221108		Pass	0.24%	Pass		Pass	6.8%	Pass		Pass	0.84%	Pass

Narrative Summary

Enthalpy Analytical Narrative Summary

Company	All4, Inc.
Site	US Steel Corp - Clairton Works ICR
Project	00701-0002.00
Report #	2022EE103

Custody	<p>Andrew Coons of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 11/23/2022 after being relinquished by All4, Inc. The tubes were received in good condition at a temperature of 17.4 °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 6890, Gas Chromatograph "Neville" (S/N US2215A021) was equipped with a 5973 Mass Selective Detector (S/N US2211M022) for these analyses.</p> <p>The Perkin-Elmer ATD-650 Thermal Desorber introduced the samples and standards to the analyzer.</p>
Chromatographic Conditions	A copy of the acquisition method (M325B-TD-2.M) is not included in this report but may be available upon request.
Calibration	<p>All BFB criteria have been met for this analysis.</p> <p>The initial calibration (N102122A_BUT_BTEx) met the 30% RSD criteria. The initial calibration verification met the 30% recovery criteria. The continuing calibration verifications met the 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>None of the analytes of interest were detected in the analyses of the field blank or laboratory blank at concentrations greater than the detection limit.</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.



Sample Custody



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

Page (x of y)

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- ☒ Standard Turn Around Time (7 business days)
☐ Rush Turn Around Time
• All TATs Subject to Approval by Enthalpy Analytical, LLC
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

Site Name: VS Steel Corp - Clairton Works	Client Name: ALL 4 LLC	Field Sampling Conditions:
Site Address: 400 State Street	Project Number: 00701-0002-00	<input type="checkbox"/> Rain During Deployment / Retrieval
City: Clairton	Project Manager: Dustin Shure	<input type="checkbox"/> Sample Period w/ Continuous Rain
State: PA	Email Address: DShure@all4inc.com	<input type="checkbox"/> Sample Period w/ Snow or Melt
Zip: 15025	Telephone #: 610-422-1126	<input type="checkbox"/> Other (Please explain in Notes)

Location	Sample ID (Tube ID)	Sample, Blank, or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Sampler Initials	Avg. Ambient Temp. (°F)
PT01-221108-S	B15113	Sample	22/11/08	12:16 PM	22/11/22	8:53 AM	SRA	
PT02-221108-S	B15076	Sample	22/11/08	12:20 PM	22/11/22	9:00 AM	SRA	
PT03-221108-S	B27991	Sample	22/11/08	11:08 AM	22/11/22	9:05 AM	SRA	
PT04-221108-S	B20418	Sample	22/11/08	11:14 AM	22/11/22	9:10 AM	SRA	
PT05-221108-S	B43708	Sample	22/11/08	11:22 AM	22/11/22	9:15 AM	SRA	
PT06-221108-S	B29810	Sample	22/11/08	11:27 AM	22/11/22	9:28 AM	SRA	
PT07-221108-S	B49733	Sample	22/11/08	11:35 AM	22/11/22	9:23 AM	SRA	
PT08-221108-S	B31688	Sample	22/11/08	11:42 AM	22/11/22	9:35 AM	SRA	

Collected By: Print Name and Signature

Stacy Arner

Stacy Arner

Relinquished to Shipper: Print Name and Signature

Relinquished Date

Relinquished Time

Stacy Arner

22/11/22

12:55 PM

Received by: Print Name and Signature

Receipt Date

Custody Seal Intact (Yes or No)

Andrew Coons

Andrew Coons

11/22/22 10:00

Yes

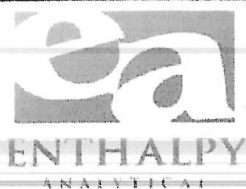
Sample Condition Upon Receipt:

Custody Seal # →

22C08215

Analysis Required:

Comments: TEMP BLANK - 17.4°C
FLUKE #6



EPA Method 325 A/B

Field Test Data Sheet and Chain of Custody Record

Page (x of y) 2 of 2

- ☒ Standard Turn Around Time (7 business days)
- ☐ Rush Turn Around Time
- All TATs Subject to Approval by Enthalpy Analytical, LLC
- Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

Site Name: <u>US Steel corp - clinton works</u>	Client Name: <u>ALL4 LLC</u>	Field Sampling Conditions:
Site Address: <u>400 state street</u>	Project Number: <u>00701-0002.00</u>	<input type="checkbox"/> Rain During Deployment / Retrieval
City: <u>clinton</u>	Project Manager: <u>Dustin Share</u>	<input type="checkbox"/> Sample Period w/ Continuous Rain
State: <u>PA</u>	Email Address: <u>Dshare@ALL4inc.com</u>	<input type="checkbox"/> Sample Period w/ Snow or Melt
Zip: <u>15025</u>	Telephone #: <u>610-422-1126</u>	<input type="checkbox"/> Other (Please explain in Notes)

Location	Sample ID (Tube ID)	Sample, Blank, or Duplicate	Start Date	Start Time	Stop Date	Stop Time	Sampler Initials	Avg. Ambient Temp. (°F)
PT09-221108-S	C01831	sample	22/11/08	10:47AM	22/11/22	9:41 AM	SRA	
PT10-221108-S	B43296	sample	22/11/08	10:47AM	22/11/22	9:47 AM	SRA	
PT10-221108-D	B12139	duplicate	22/11/08	10:47AM	22/11/22	9:49 AM	SRA	
PT10-221108-B	B43602	blank	22/11/08	10:47AM	22/11/22	9:46 AM	SRA	
PT11-221108-S	C00707	sample	22/11/08	12:07 PM	22/11/22	9:55AM	SRA	
PT12-221108-S	B27212	sample	22/11/08	12:12 PM	22/11/22	9:59AM	SRA	

Collected By: Print Name and Signature

Relinquished to Shipper: Print Name and Signature <u>Stacy Arner</u> 1 <u>Stacy Arner</u>	Relinquished Date	Relinquished Time
--	-------------------	-------------------

Received by: Print Name and Signature <u>Andrew Gross</u> <u>Stacy Arner</u>	Receipt Date	Custody Seal Intact (Yes or No)
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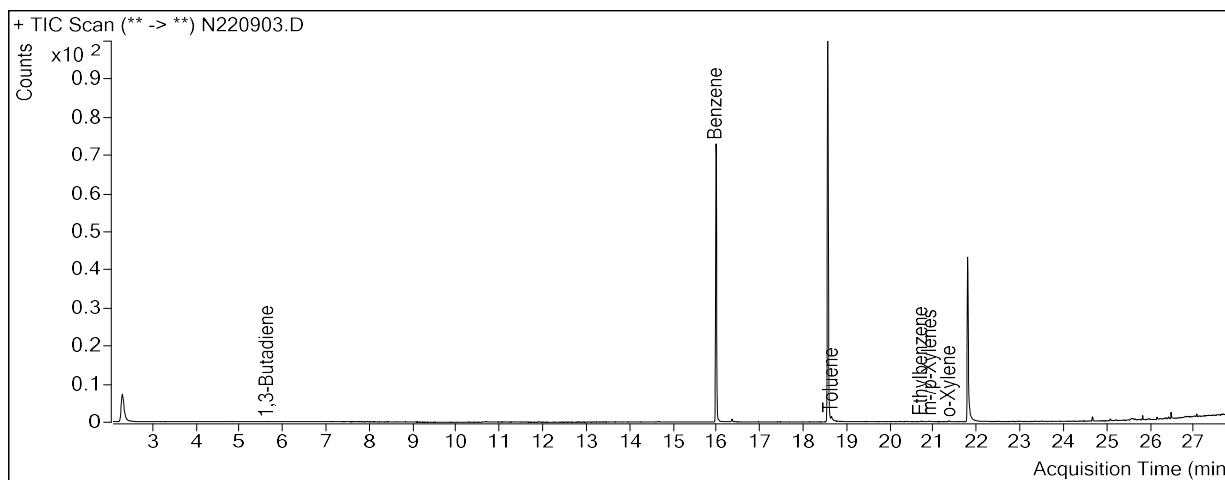
Sample Condition Upon Receipt: <u>Good</u>	Custody Seal # →	22608215
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Analysis Required: _____

Comments: TEMP BLANK: 17.4°C
FLUKE#0

Sample Chromatograms

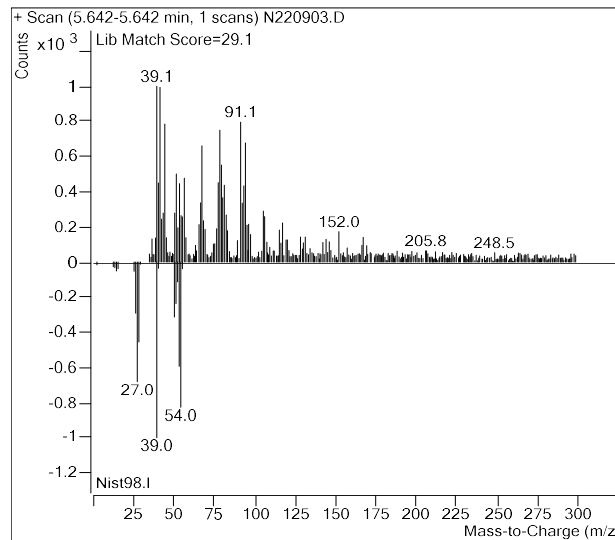
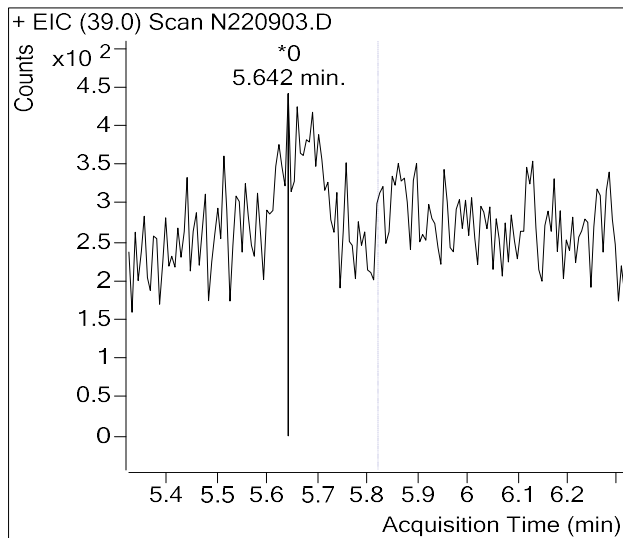
Sample Name : 2022EE103 Method Blank
Sample Info : C01322
Data File : N220903.D
Acquisition Date : 2022-11-28 15:23:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,229,549	
Benzene	16.03	13,335	m
Toluene-d8 (IS)	18.55	1,321,005	
Toluene	18.64	11,935	
Ethylbenzene	20.70	4,326	
m-/p-Xylenes	20.89	4,328	
o-Xylene	21.32	3,286	

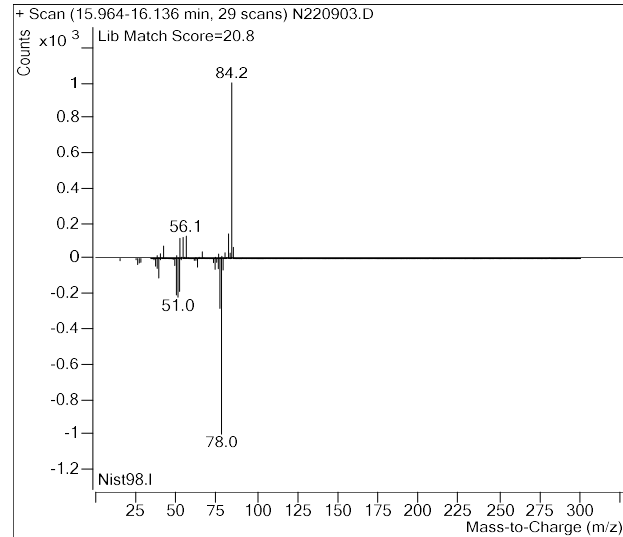
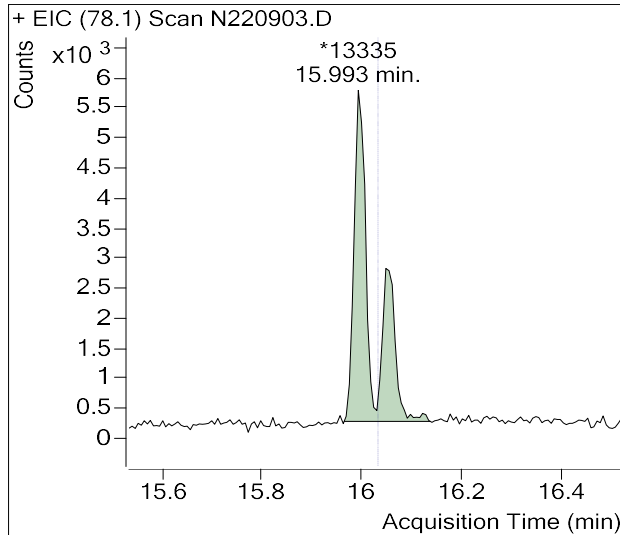
(m)=Manual Integration

1,3-Butadiene

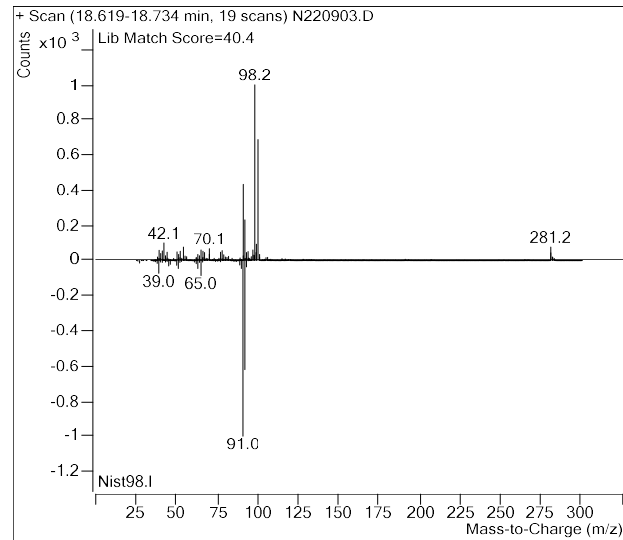
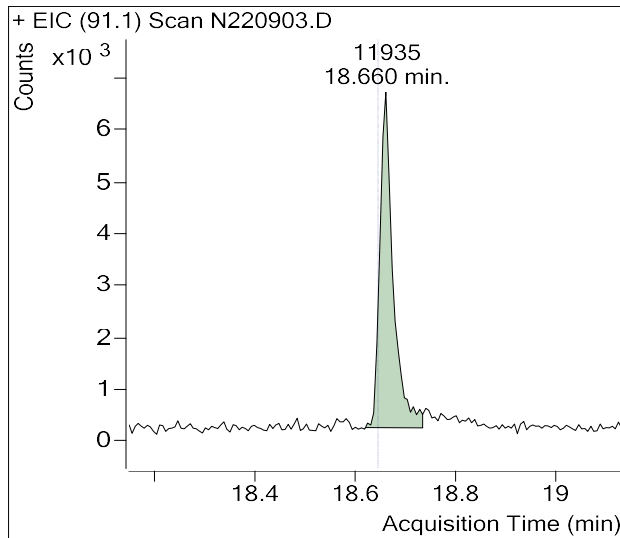


Sample Name : 2022EE103 Method Blank
Sample Info : C01322
Data File : N220903.D
Acquisition Date : 2022-11-28 15:23:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

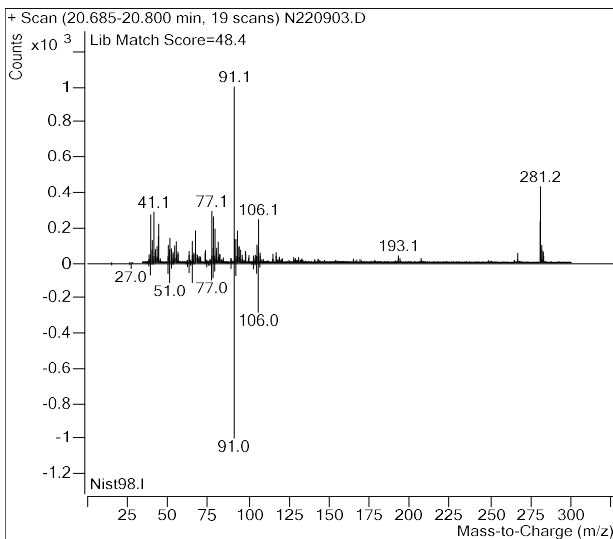
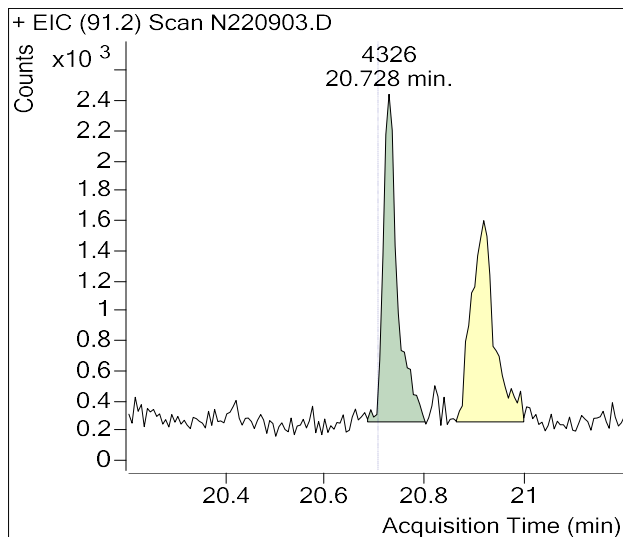


Toluene

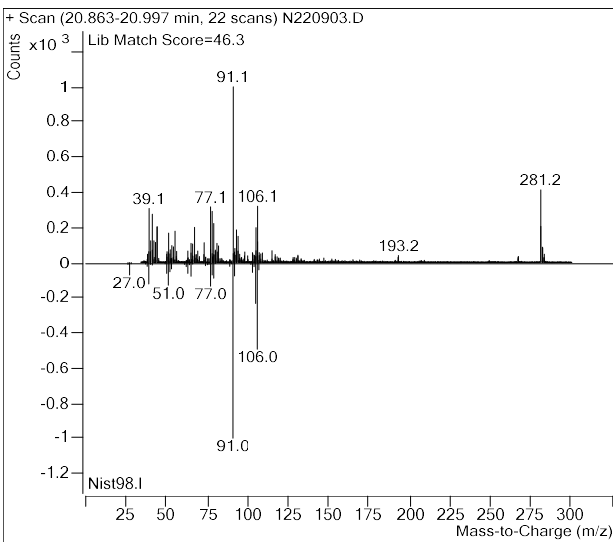
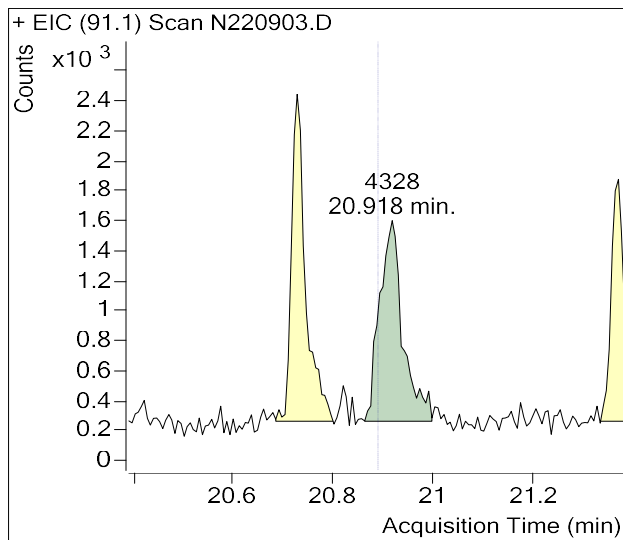


Sample Name : 2022EE103 Method Blank
Sample Info : C01322
Data File : N220903.D
Acquisition Date : 2022-11-28 15:23:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

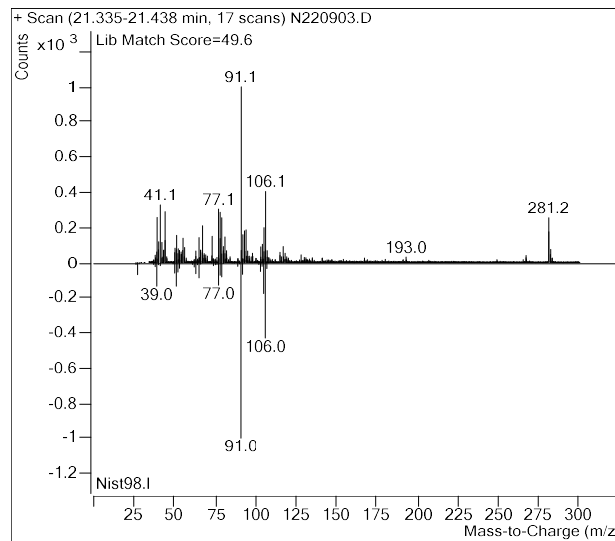
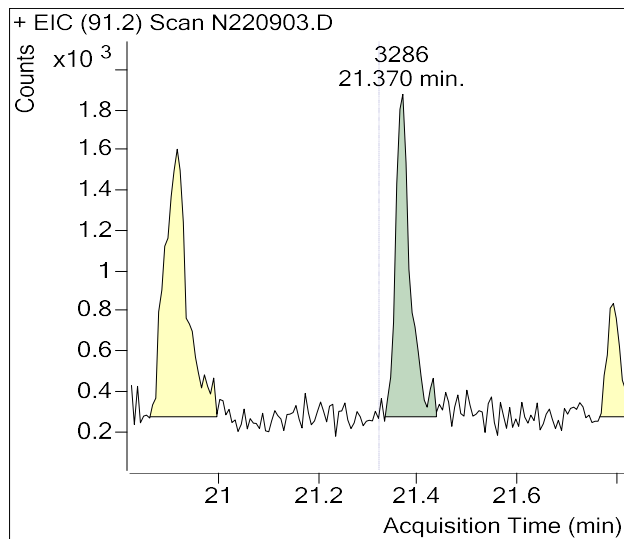


m-/p-Xylenes

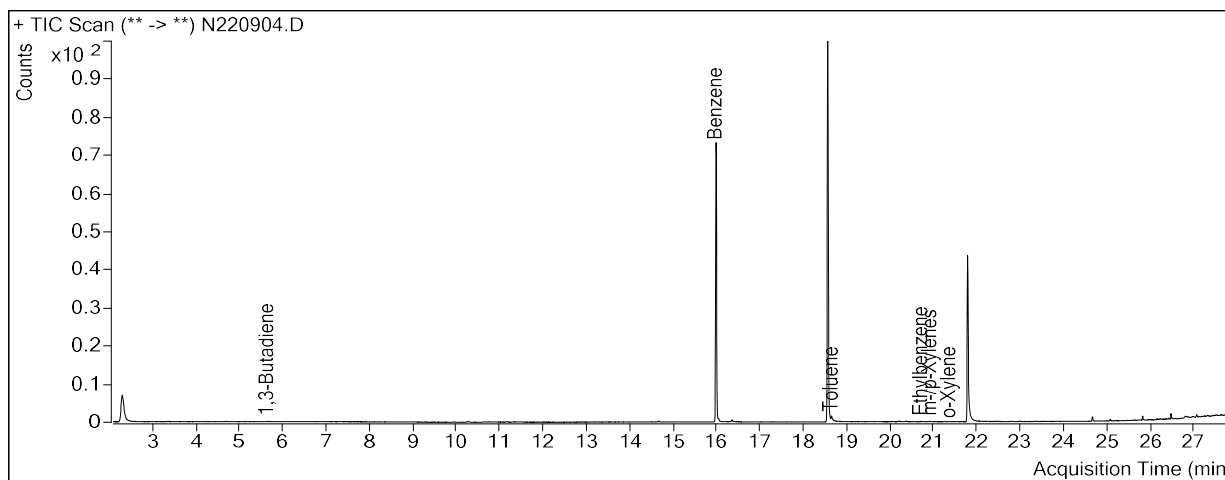


Sample Name : 2022EE103 Method Blank
Sample Info : C01322
Data File : N220903.D
Acquisition Date : 2022-11-28 15:23:38
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



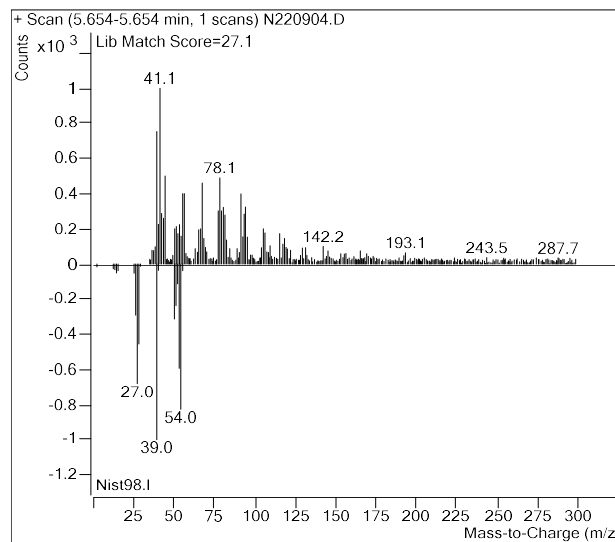
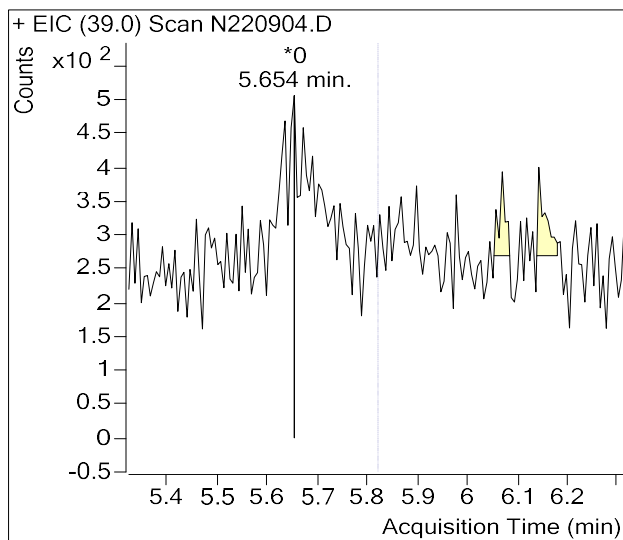
Sample Name : USSCL-PT10-B-20221108
Sample Info : B43602
Data File : N220904.D
Acquisition Date : 2022-11-28 16:03:25
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,260,950	
Benzene	16.03	17,931	m
Toluene-d8 (IS)	18.55	1,330,581	
Toluene	18.64	15,809	
Ethylbenzene	20.70	2,481	
m-/p-Xylenes	20.89	2,078	
o-Xylene	21.32	1,138	

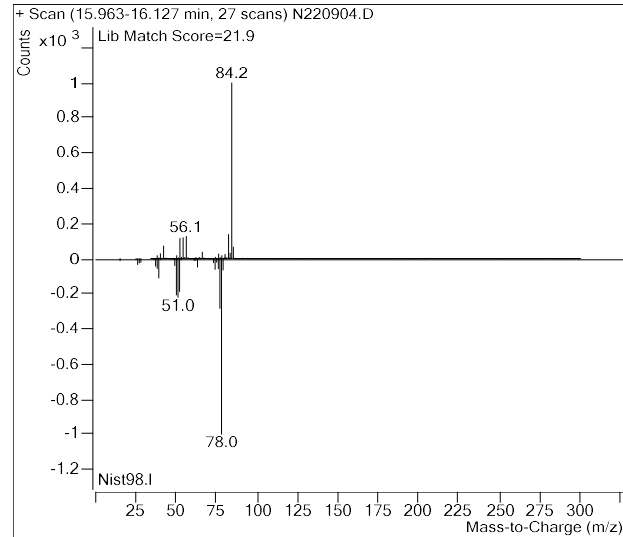
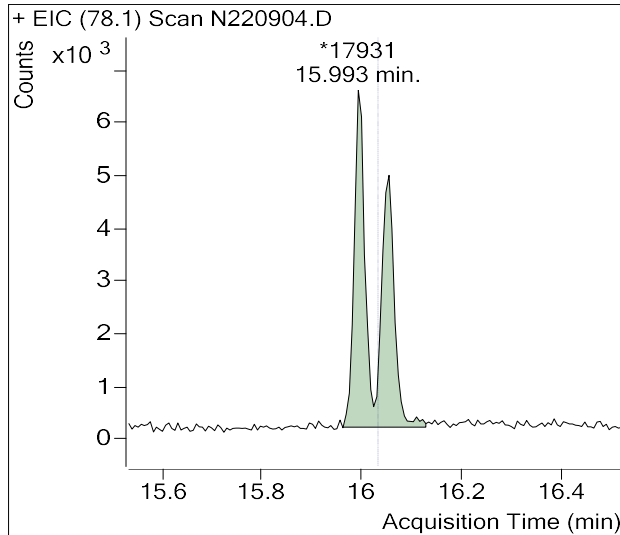
(m)=Manual Integration

1,3-Butadiene

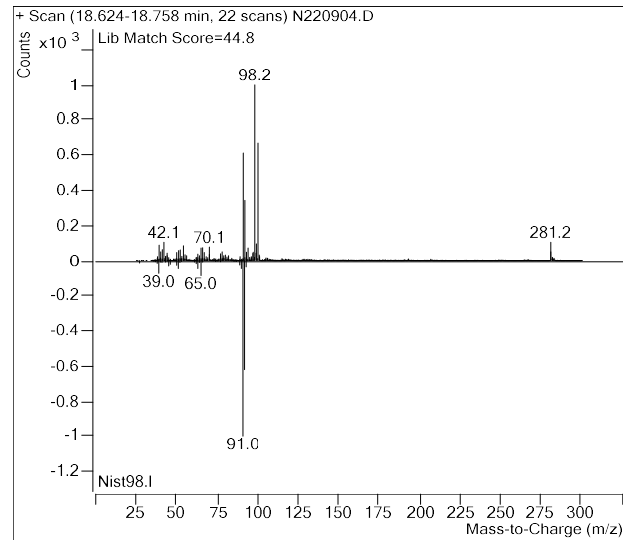
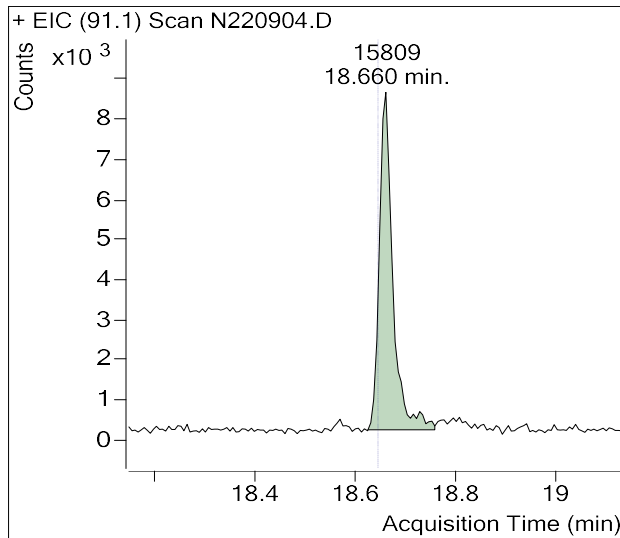


Sample Name : USSCL-PT10-B-20221108
Sample Info : B43602
Data File : N220904.D
Acquisition Date : 2022-11-28 16:03:25
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

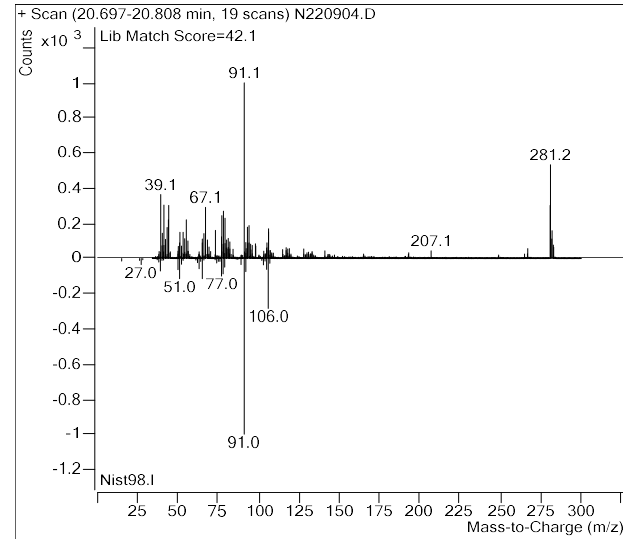
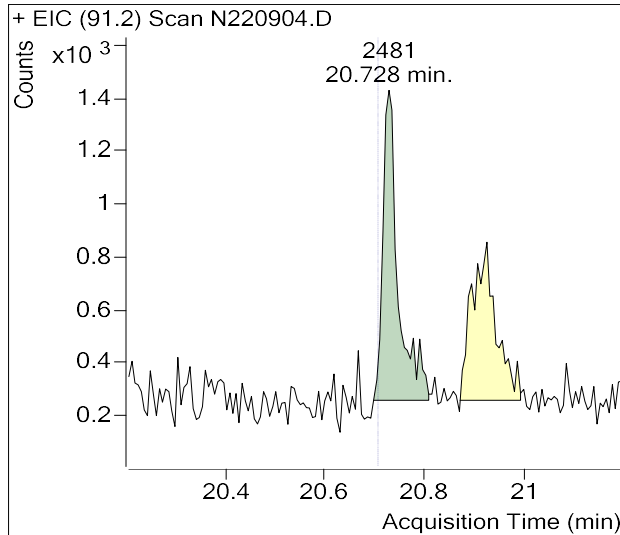


Toluene

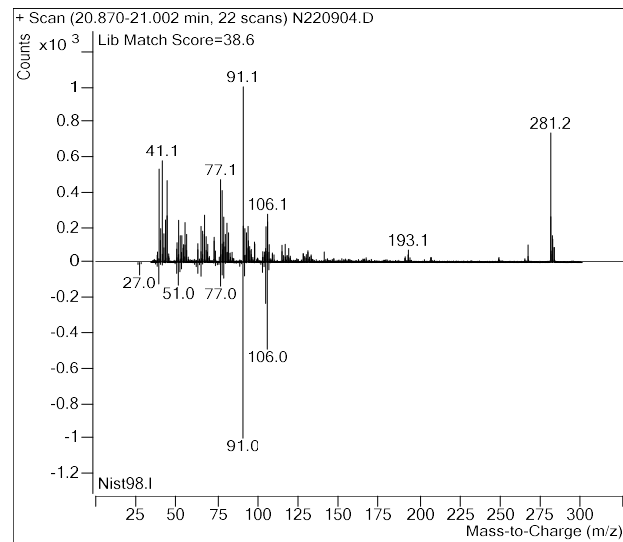
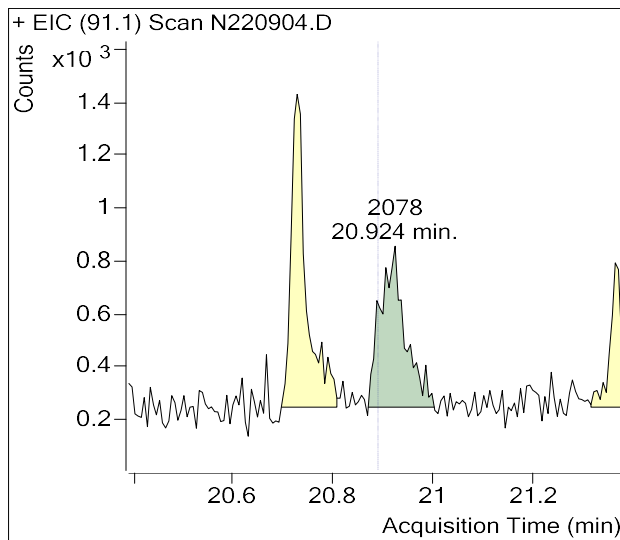


Sample Name : USSCL-PT10-B-20221108
Sample Info : B43602
Data File : N220904.D
Acquisition Date : 2022-11-28 16:03:25
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

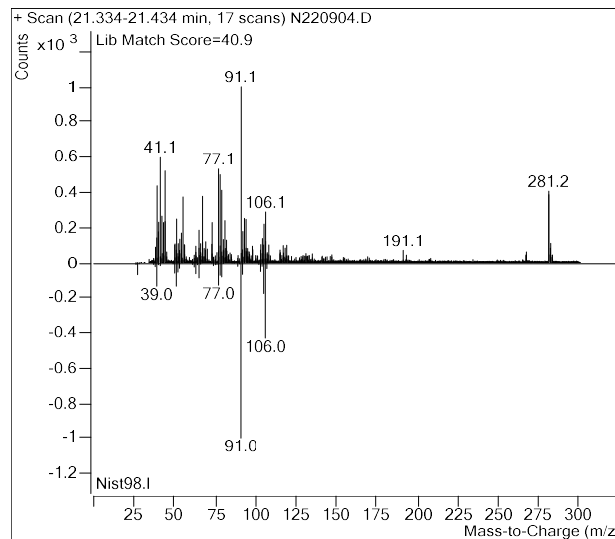
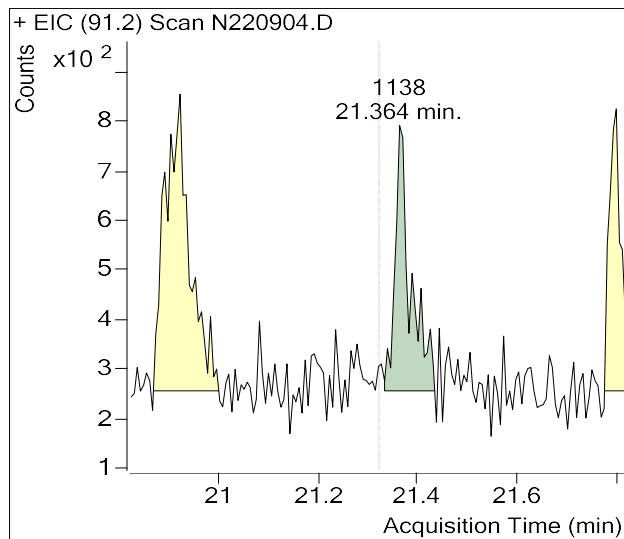


m-/p-Xylenes

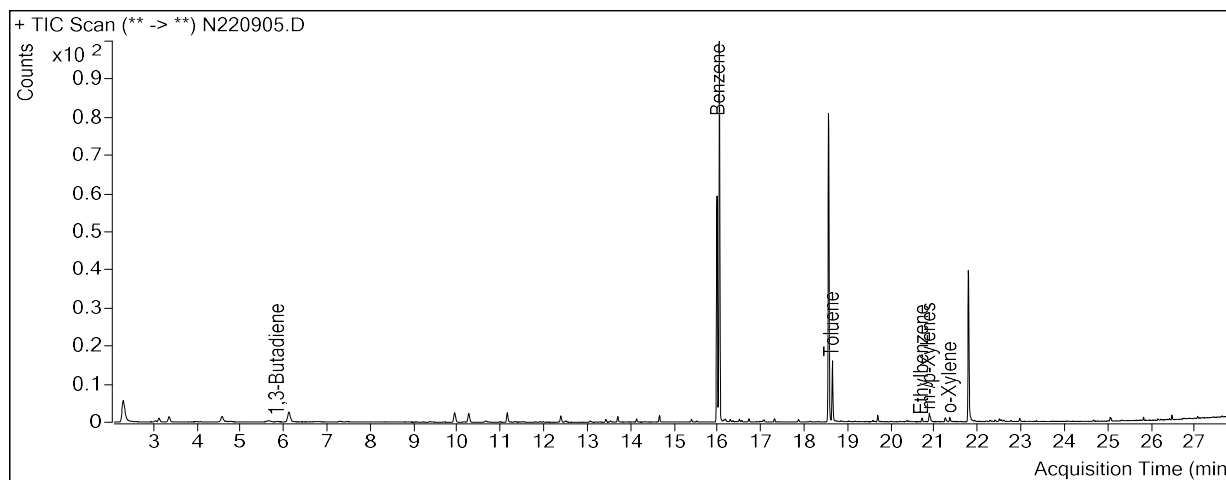


Sample Name : USSCL-PT10-B-20221108
Sample Info : B43602
Data File : N220904.D
Acquisition Date : 2022-11-28 16:03:25
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



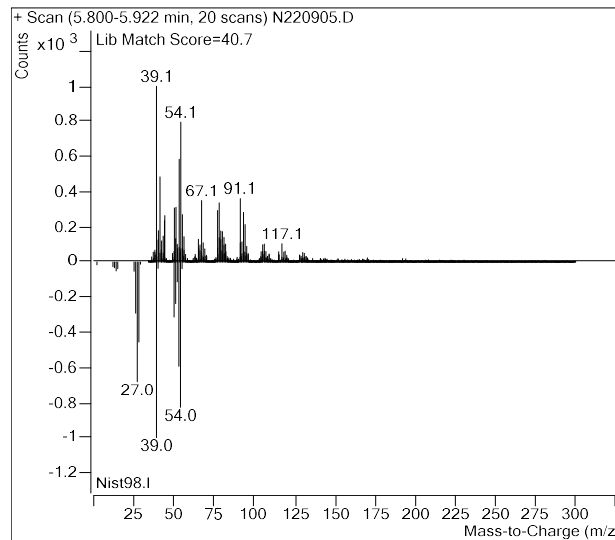
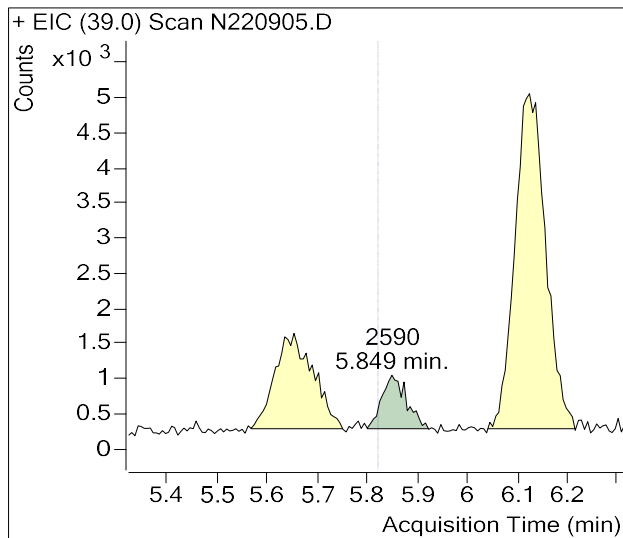
Sample Name : USSCL-PT01-S-20221108
Sample Info : B15113
Data File : N220905.D
Acquisition Date : 2022-11-28 16:43:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	2,590	
Benzene-d6 (IS)	15.97	1,281,806	
Benzene	16.03	2,005,862	
Toluene-d8 (IS)	18.55	1,379,745	
Toluene	18.64	283,850	
Ethylbenzene	20.70	19,431	
m-/p-Xylenes	20.89	49,647	
o-Xylene	21.32	17,295	

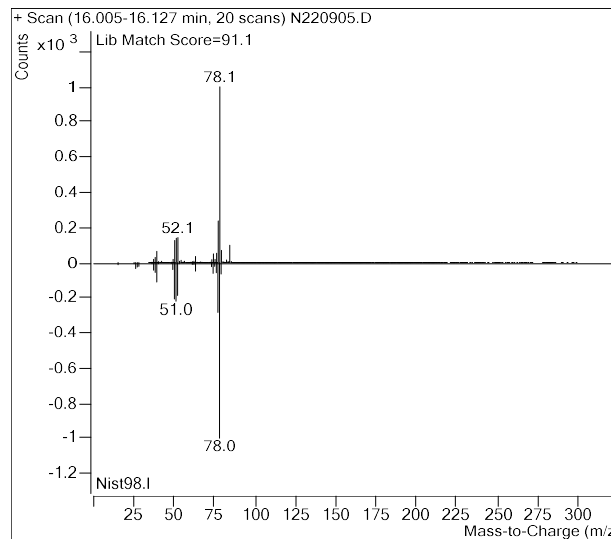
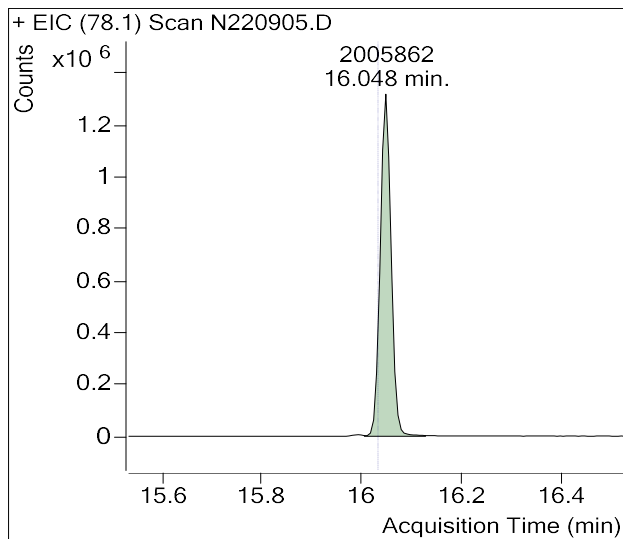
(m)=Manual Integration

1,3-Butadiene

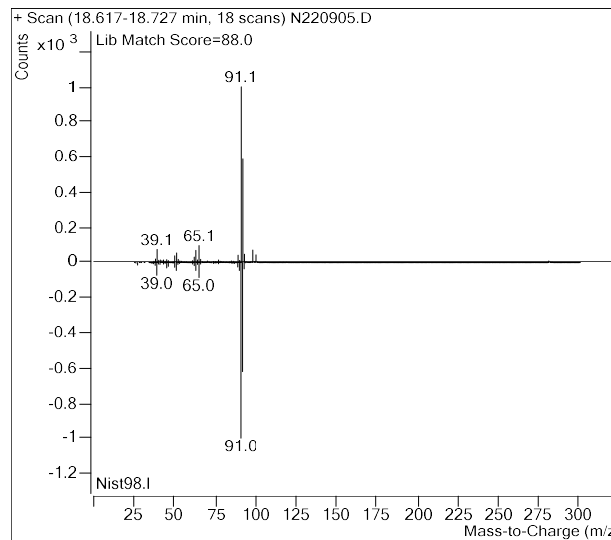
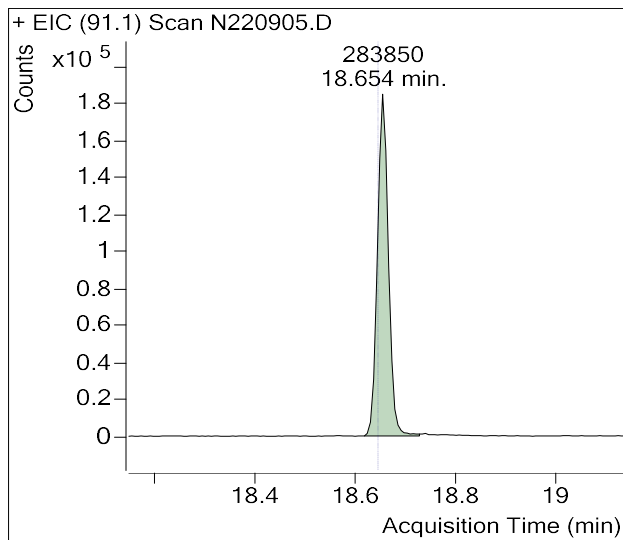


Sample Name : USSCL-PT01-S-20221108
Sample Info : B15113
Data File : N220905.D
Acquisition Date : 2022-11-28 16:43:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



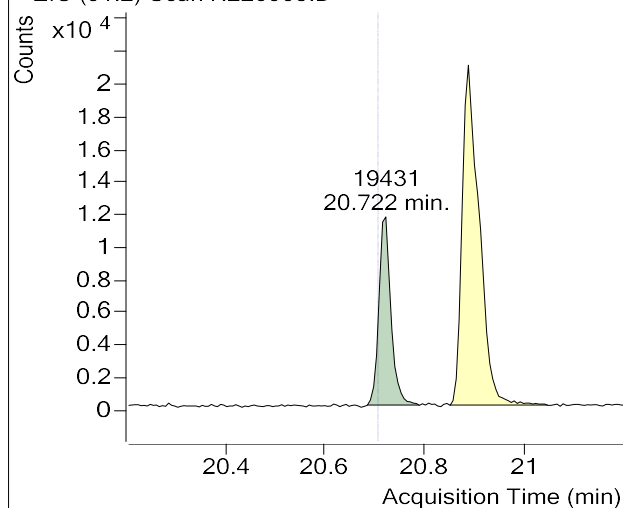
Toluene



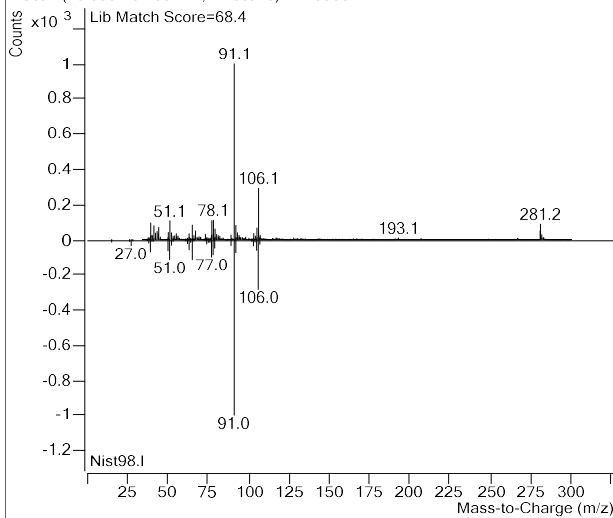
Sample Name : USSCL-PT01-S-20221108
Sample Info : B15113
Data File : N220905.D
Acquisition Date : 2022-11-28 16:43:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220905.D

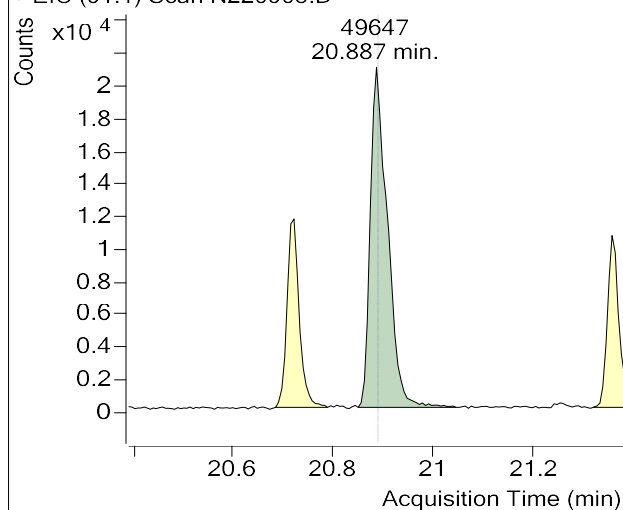


+ Scan (20.685-20.788 min, 17 scans) N220905.D

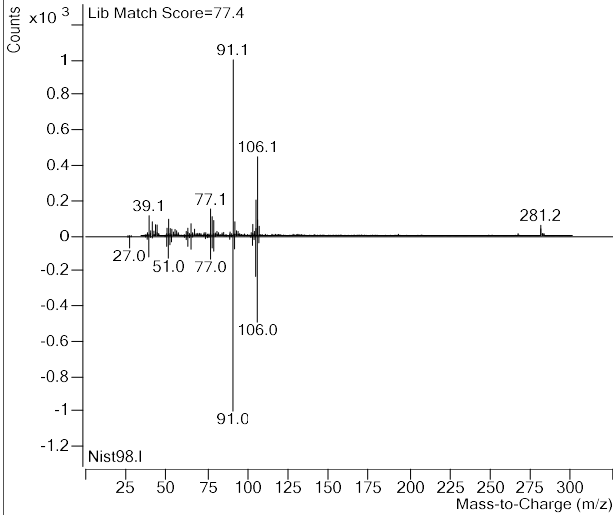


m-/p-Xylenes

+ EIC (91.1) Scan N220905.D

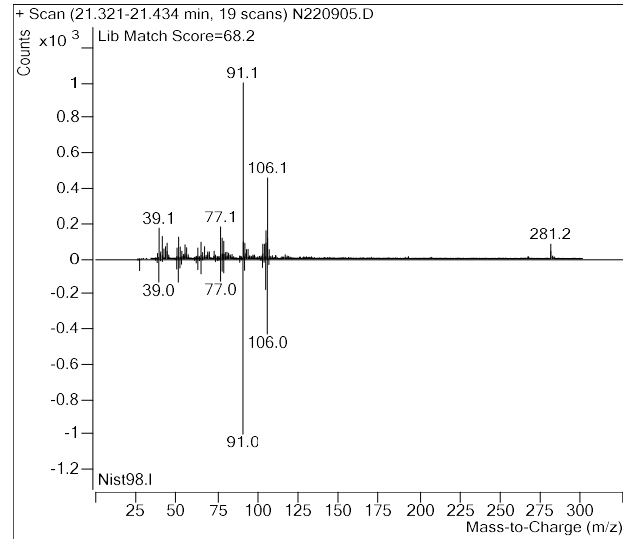
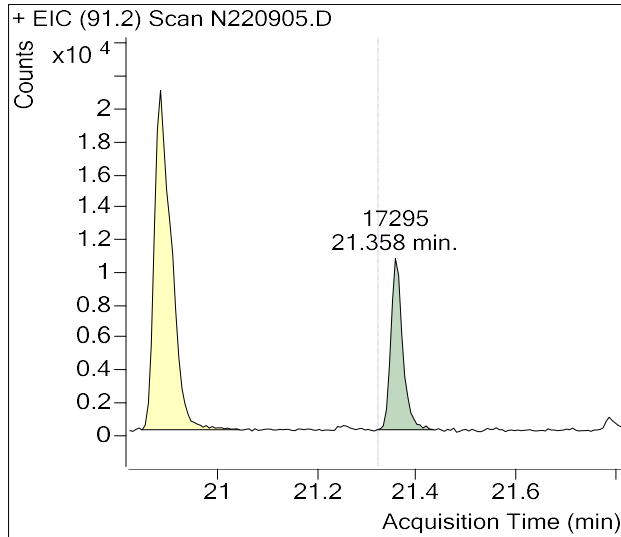


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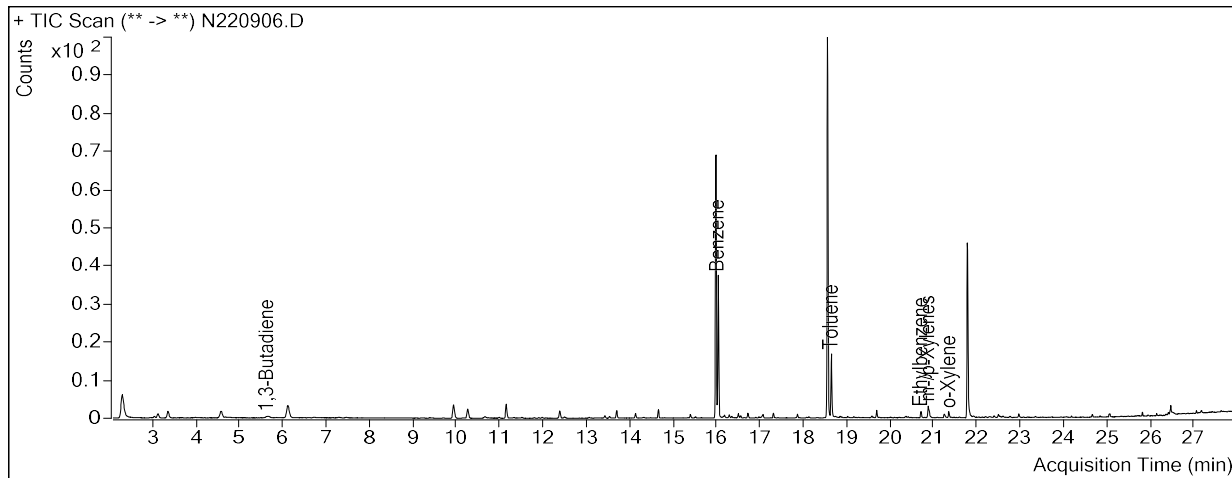


Sample Name : USSCL-PT01-S-20221108
Sample Info : B15113
Data File : N220905.D
Acquisition Date : 2022-11-28 16:43:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



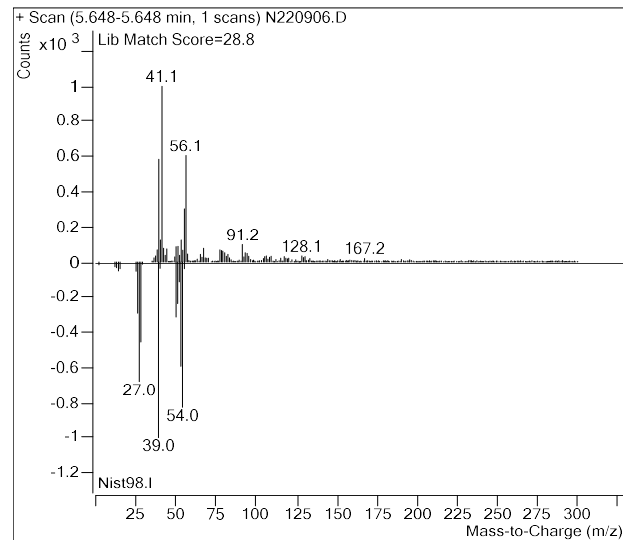
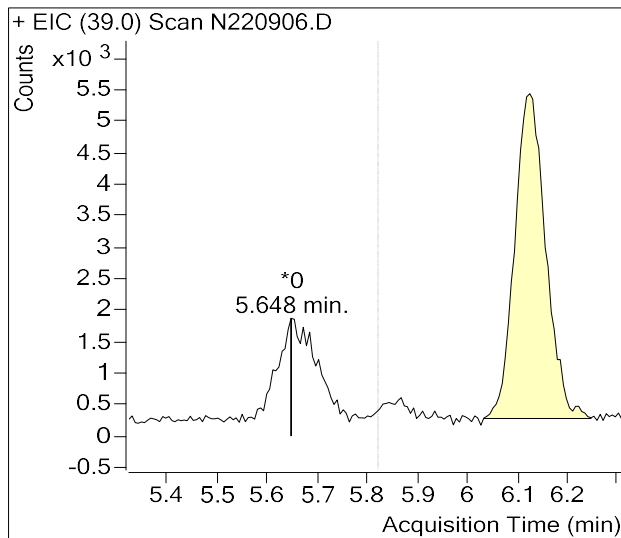
Sample Name : USSCL-PT02-S-20221108
Sample Info : B15076
Data File : N220906.D
Acquisition Date : 2022-11-28 17:23:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,296,413	
Benzene	16.03	649,758	
Toluene-d8 (IS)	18.55	1,389,717	
Toluene	18.64	248,429	
Ethylbenzene	20.70	28,840	
m-/p-Xylenes	20.89	57,361	
o-Xylene	21.32	20,943	

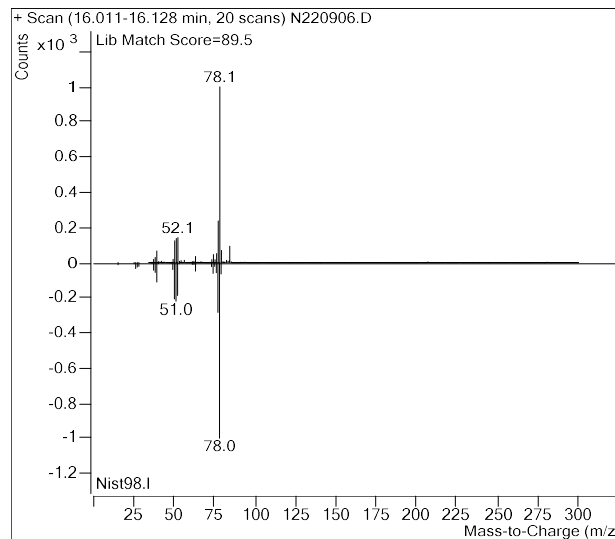
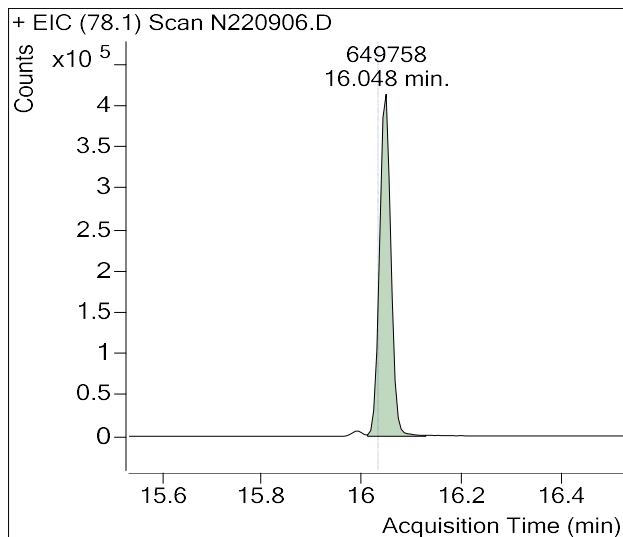
(m)=Manual Integration

1,3-Butadiene

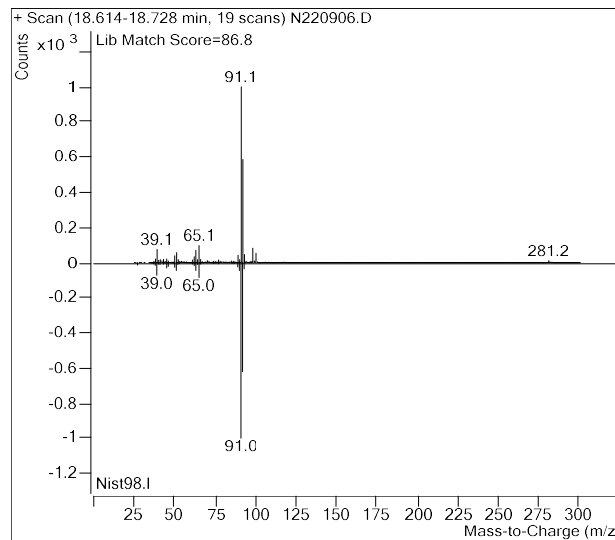
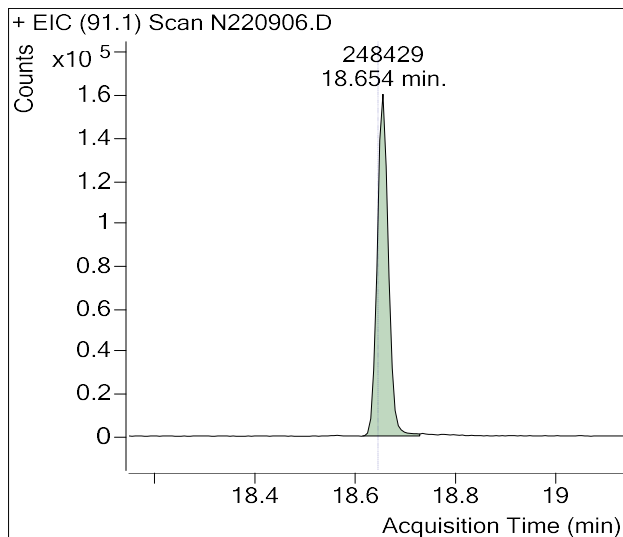


Sample Name : USSCL-PT02-S-20221108
Sample Info : B15076
Data File : N220906.D
Acquisition Date : 2022-11-28 17:23:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



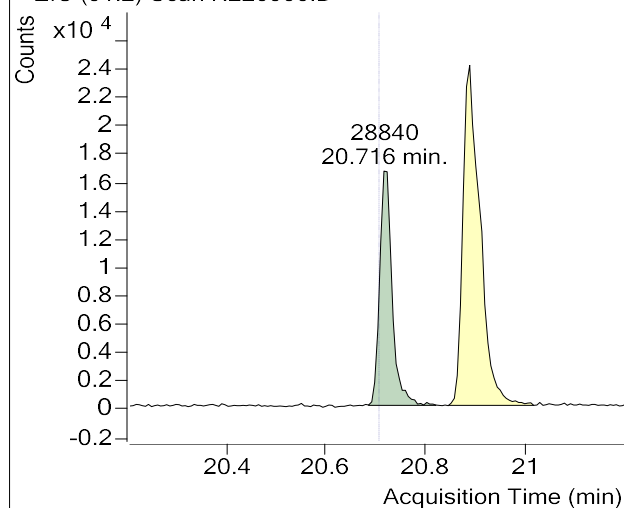
Toluene



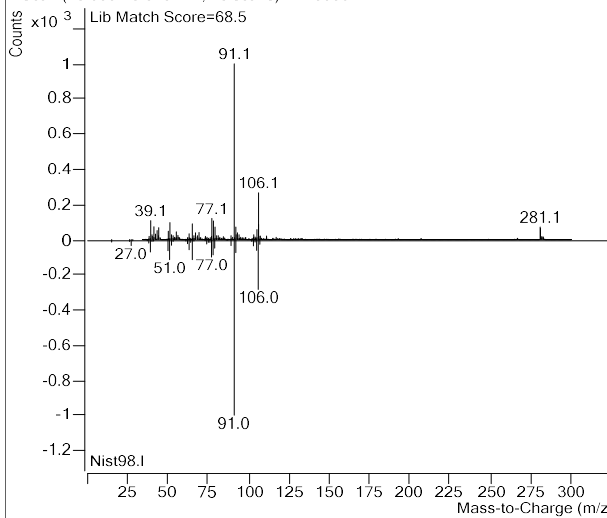
Sample Name : USSCL-PT02-S-20221108
Sample Info : B15076
Data File : N220906.D
Acquisition Date : 2022-11-28 17:23:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220906.D

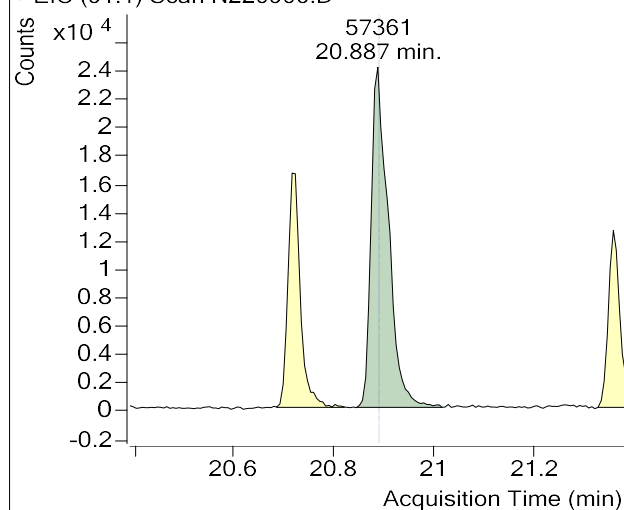


+ Scan (20.685-20.820 min, 23 scans) N220906.D

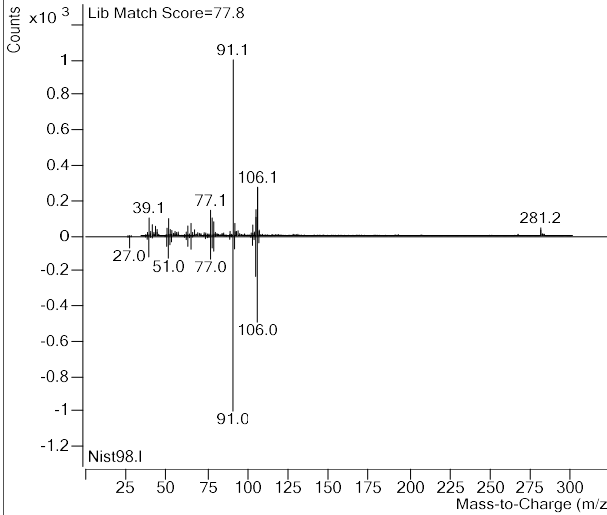


m-/p-Xylenes

+ EIC (91.1) Scan N220906.D



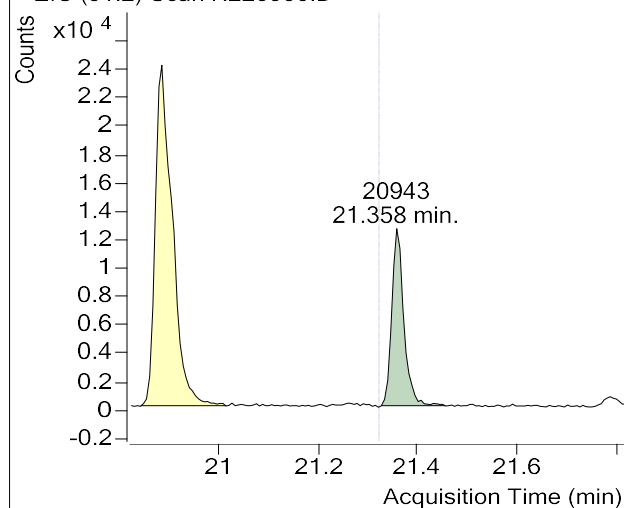
+ Scan (20.845-21.016 min, 28 scans) N220906.D



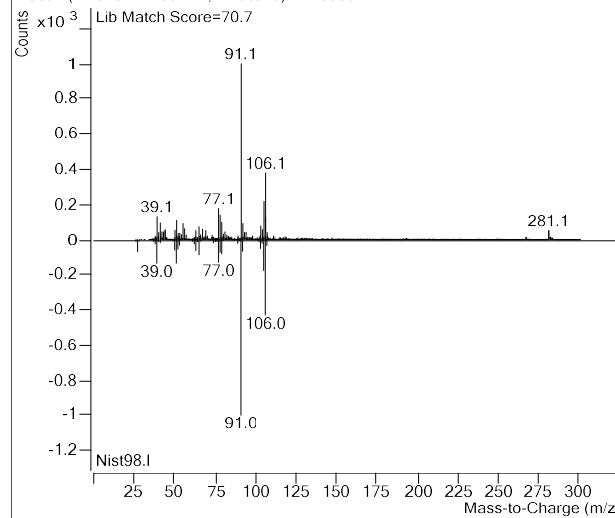
Sample Name : USSCL-PT02-S-20221108
Sample Info : B15076
Data File : N220906.D
Acquisition Date : 2022-11-28 17:23:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene

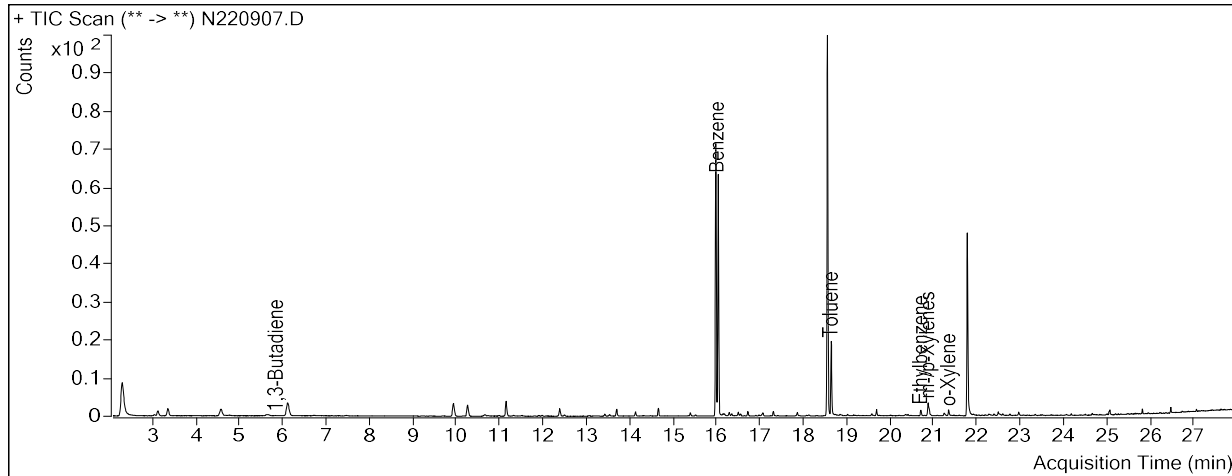
+ EIC (91.2) Scan N220906.D



+ Scan (21.328-21.455 min, 21 scans) N220906.D



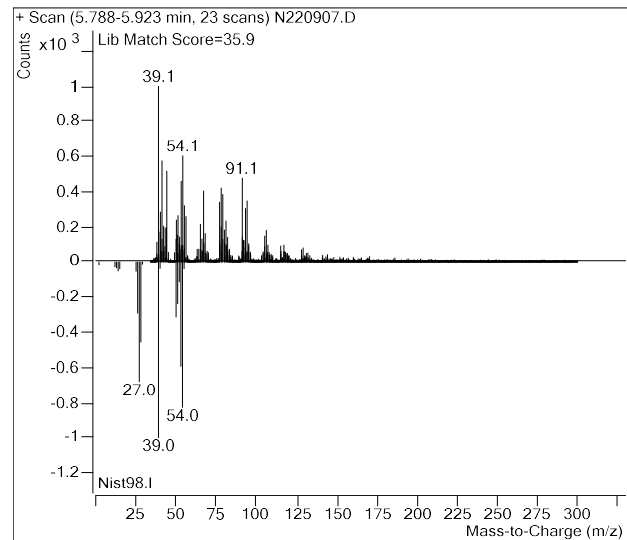
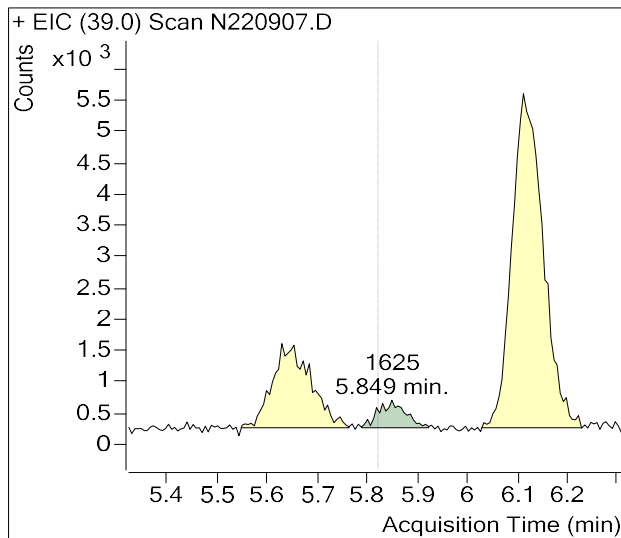
Sample Name : USSCL-PT03-S-20221108
Sample Info : B27991
Data File : N220907.D
Acquisition Date : 2022-11-28 18:02:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	1,625	
Benzene-d6 (IS)	15.97	1,293,461	
Benzene	16.03	1,102,780	
Toluene-d8 (IS)	18.55	1,367,259	
Toluene	18.64	294,945	
Ethylbenzene	20.70	25,112	
m-/p-Xylenes	20.89	64,053	
o-Xylene	21.32	20,640	

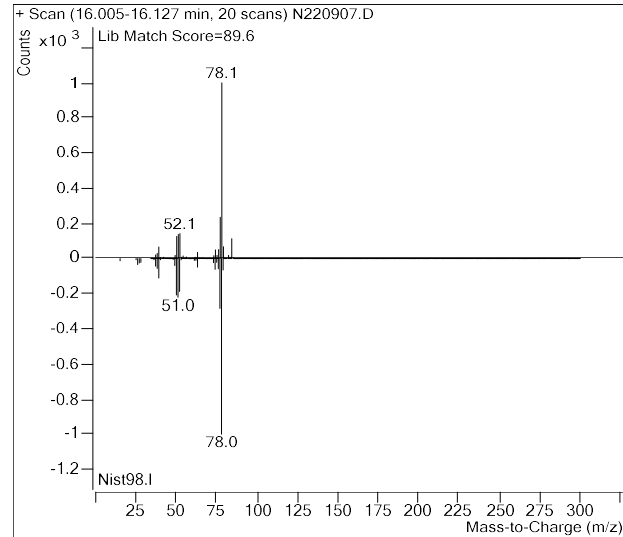
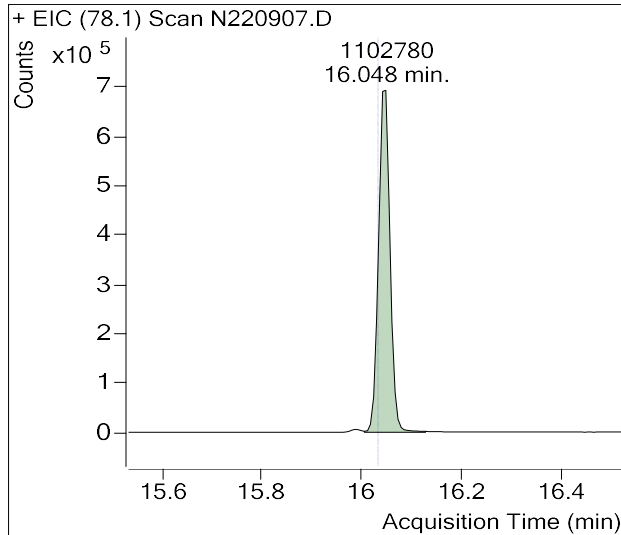
(m)=Manual Integration

1,3-Butadiene

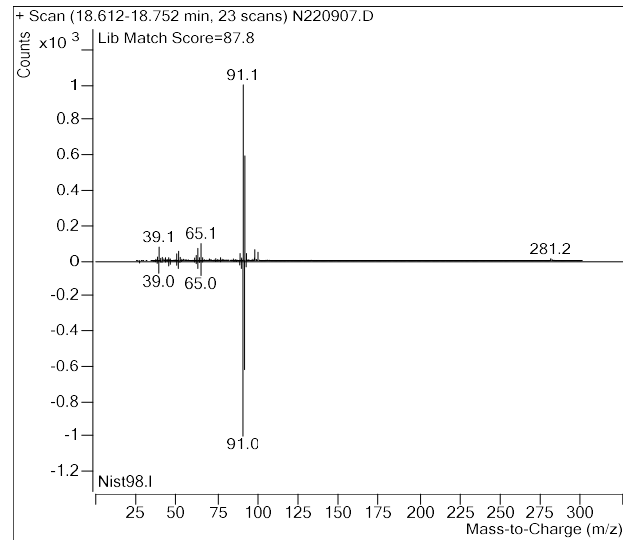
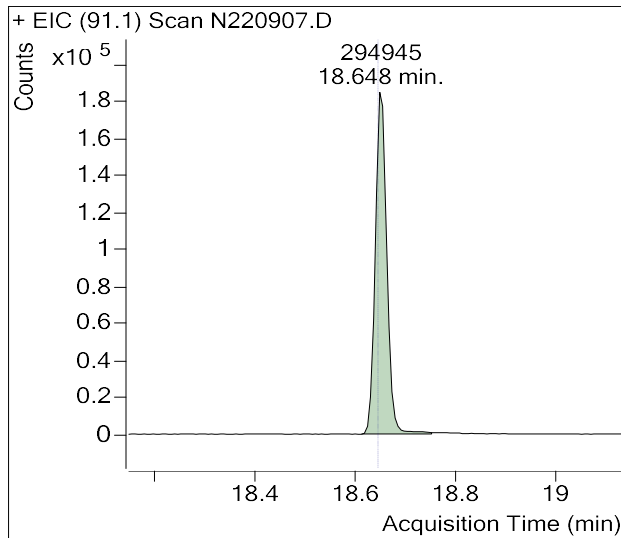


Sample Name : USSCL-PT03-S-20221108
Sample Info : B27991
Data File : N220907.D
Acquisition Date : 2022-11-28 18:02:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



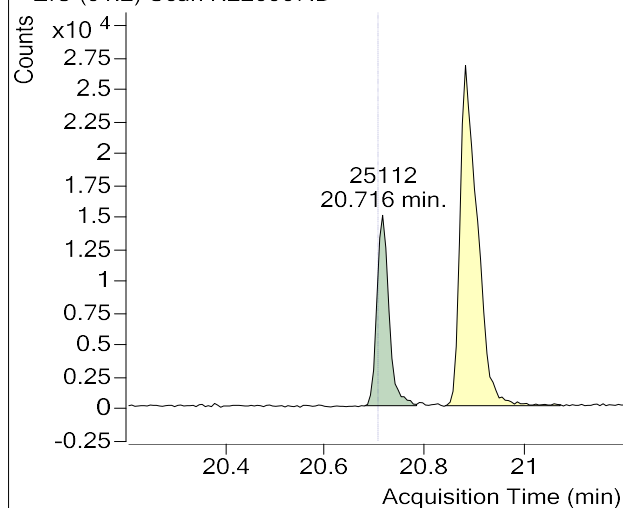
Toluene



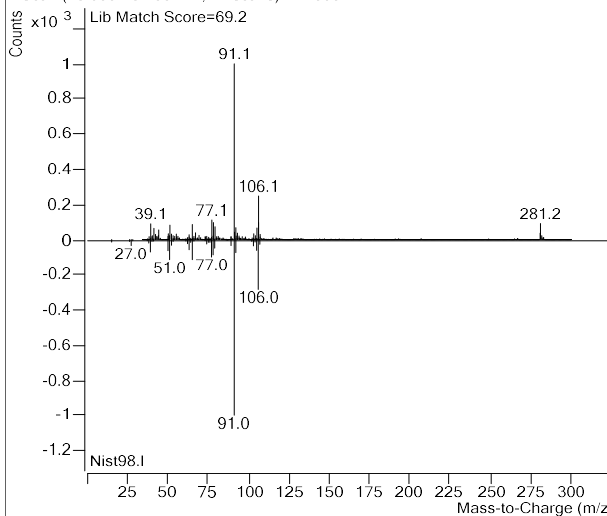
Sample Name : USSCL-PT03-S-20221108
Sample Info : B27991
Data File : N220907.D
Acquisition Date : 2022-11-28 18:02:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220907.D

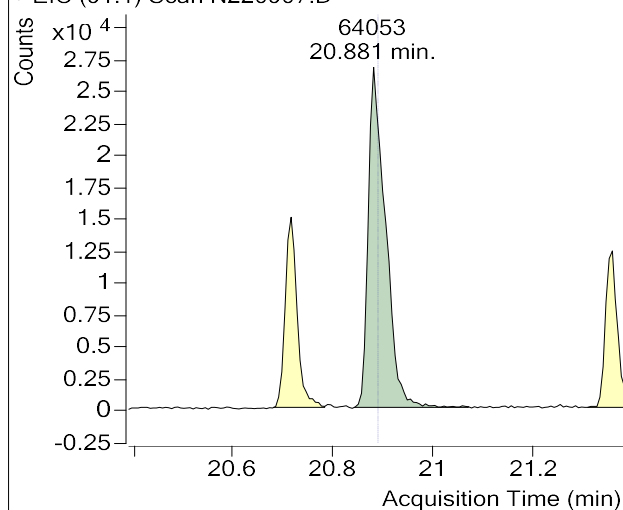


+ Scan (20.680-20.783 min, 17 scans) N220907.D

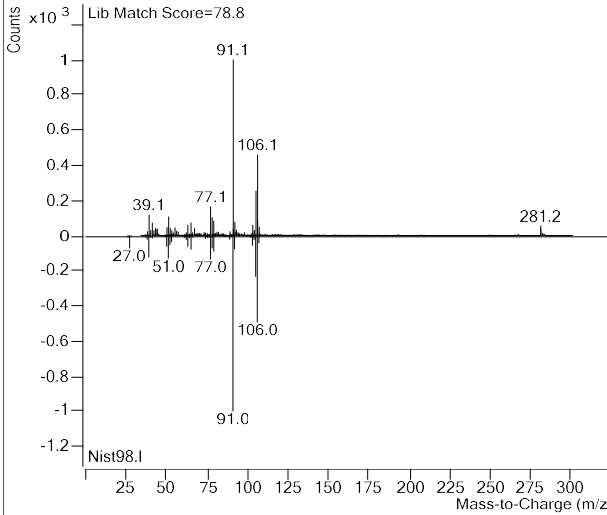


m-/p-Xylenes

+ EIC (91.1) Scan N220907.D



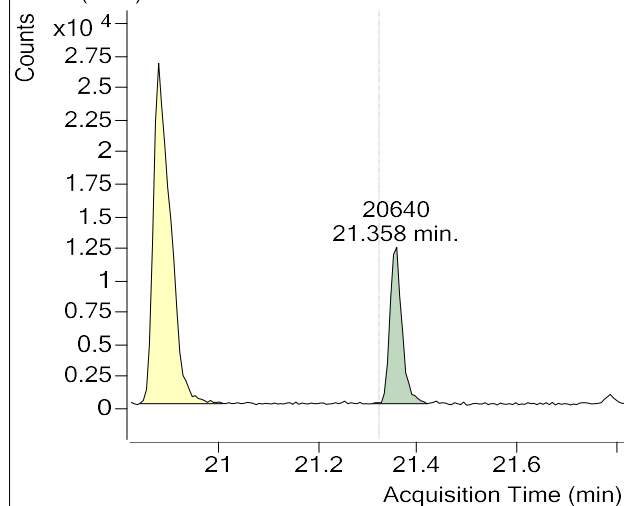
+ Scan (20.842-21.070 min, 38 scans) N220907.D



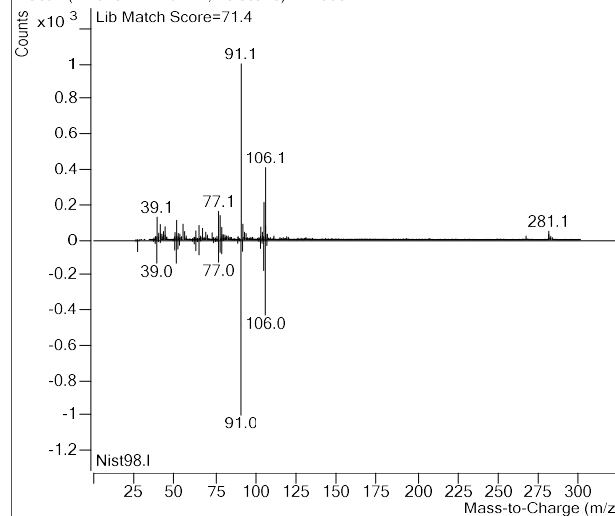
Sample Name : USSCL-PT03-S-20221108
Sample Info : B27991
Data File : N220907.D
Acquisition Date : 2022-11-28 18:02:47
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene

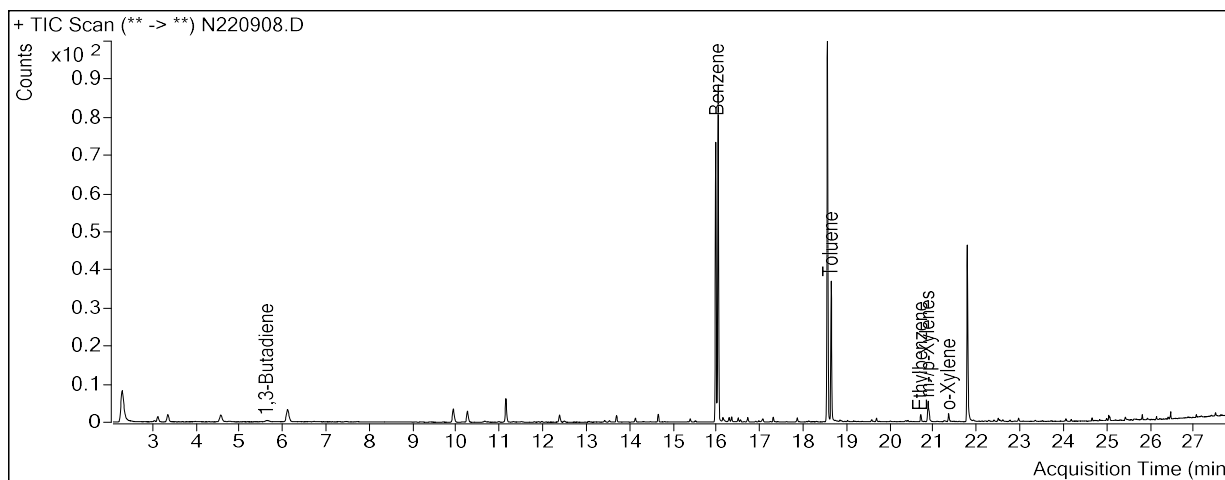
+ EIC (91.2) Scan N220907.D



+ Scan (21.310-21.419 min, 18 scans) N220907.D



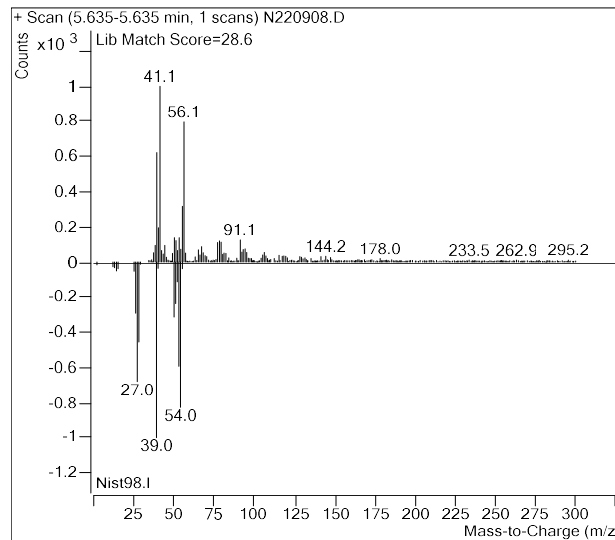
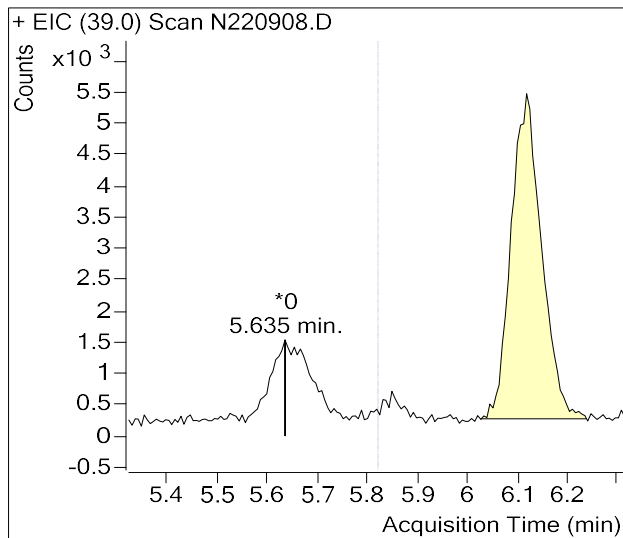
Sample Name : USSCL-PT04-S-20221108
Sample Info : B20148
Data File : N220908.D
Acquisition Date : 2022-11-28 18:42:32
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,315,581	
Benzene	16.03	1,502,840	
Toluene-d8 (IS)	18.55	1,404,262	
Toluene	18.64	557,241	
Ethylbenzene	20.70	31,927	
m-/p-Xylenes	20.89	97,572	
o-Xylene	21.32	29,735	

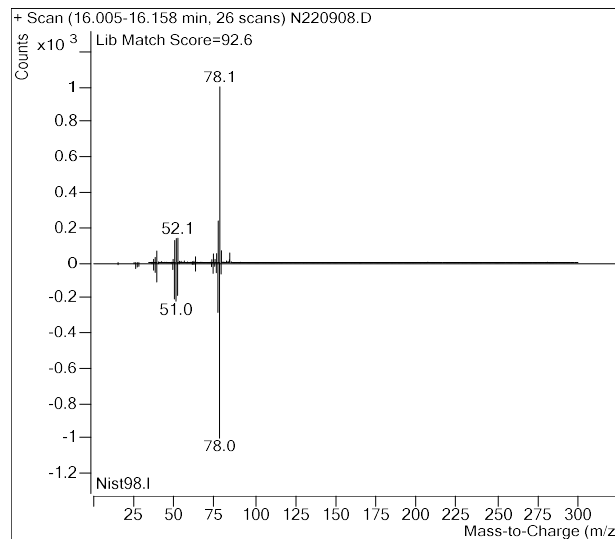
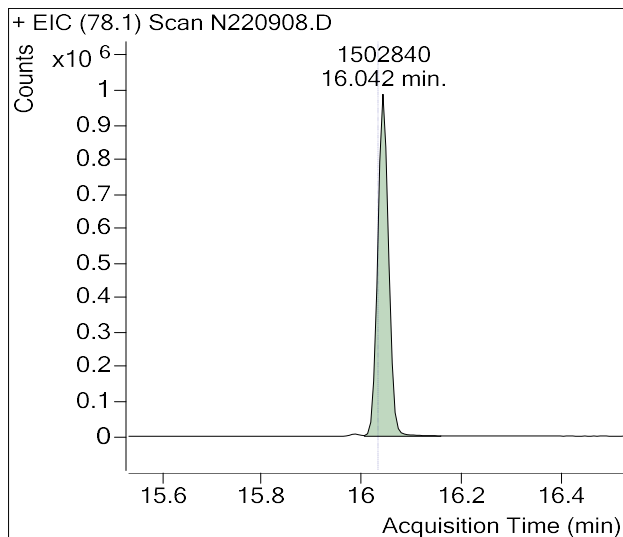
(m)=Manual Integration

1,3-Butadiene

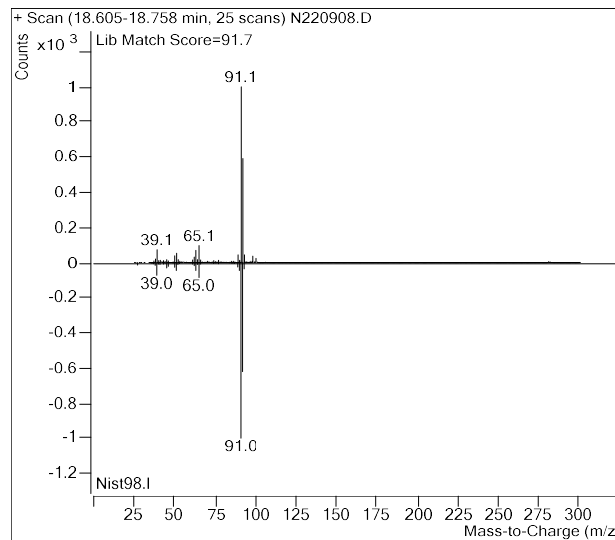
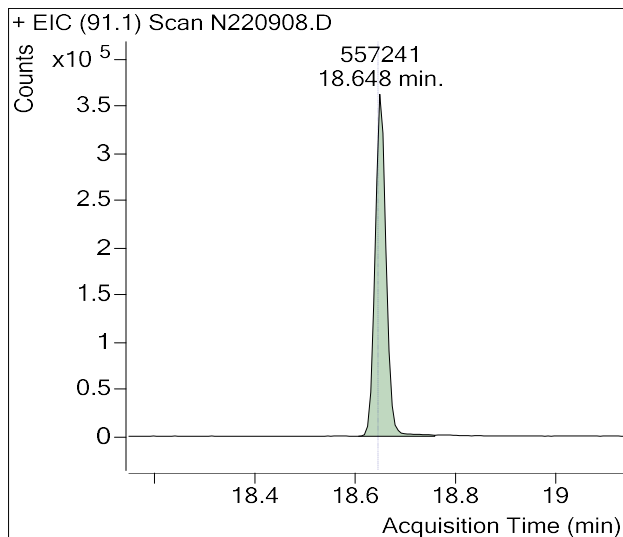


Sample Name : USSCL-PT04-S-20221108
Sample Info : B20148
Data File : N220908.D
Acquisition Date : 2022-11-28 18:42:32
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



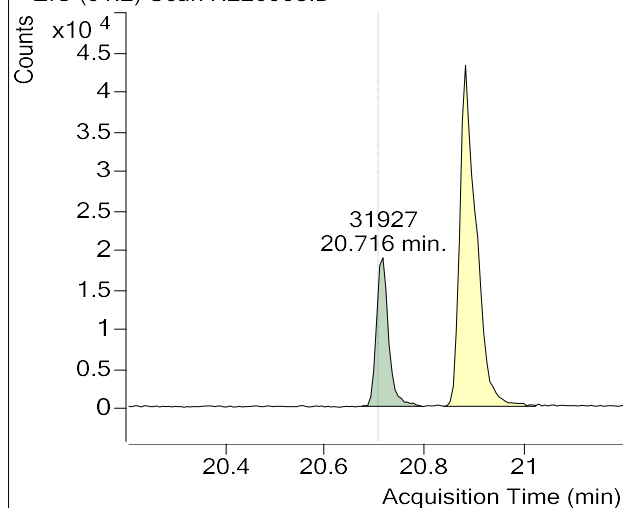
Toluene



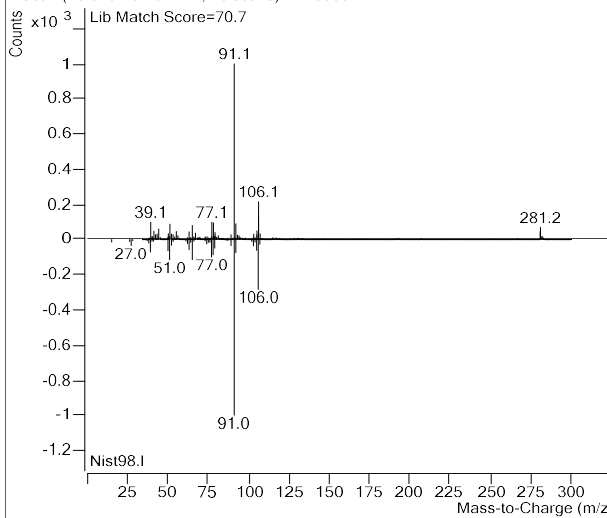
Sample Name : USSCL-PT04-S-20221108
Sample Info : B20148
Data File : N220908.D
Acquisition Date : 2022-11-28 18:42:32
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220908.D

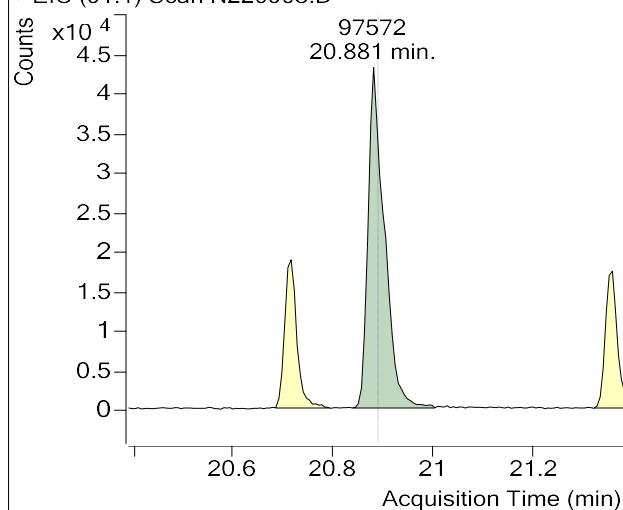


+ Scan (20.673-20.794 min, 20 scans) N220908.D

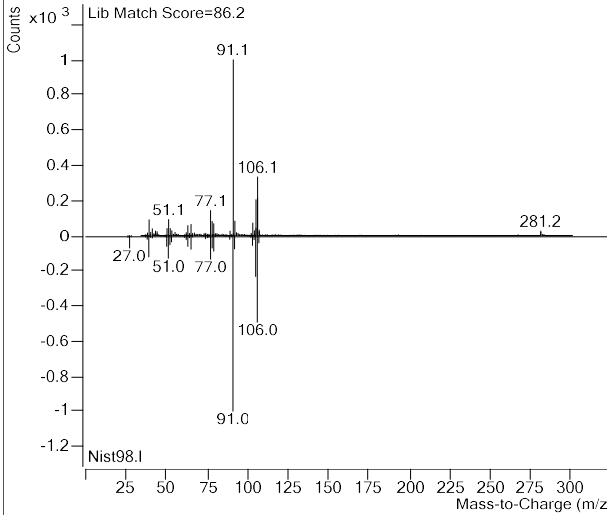


m-/p-Xylenes

+ EIC (91.1) Scan N220908.D

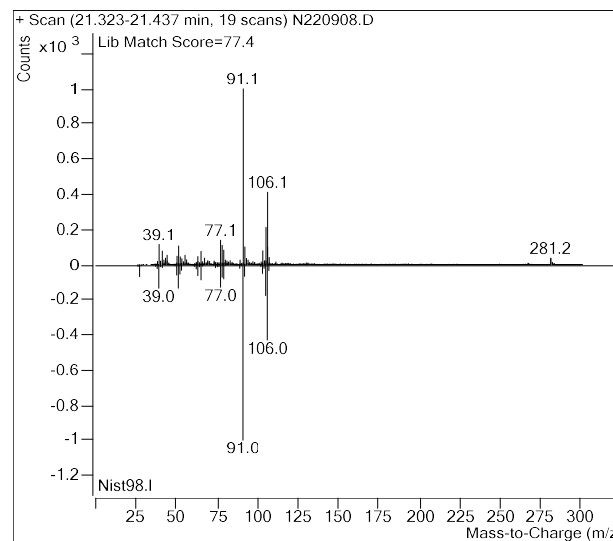
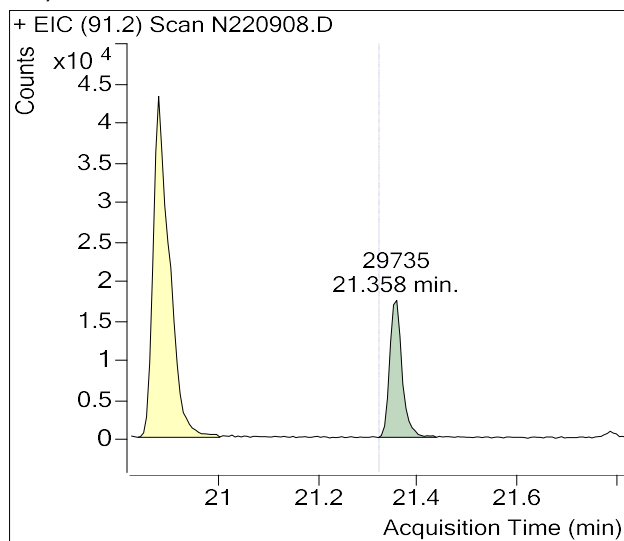


+ Scan (20.840-21.003 min, 27 scans) N220908.D

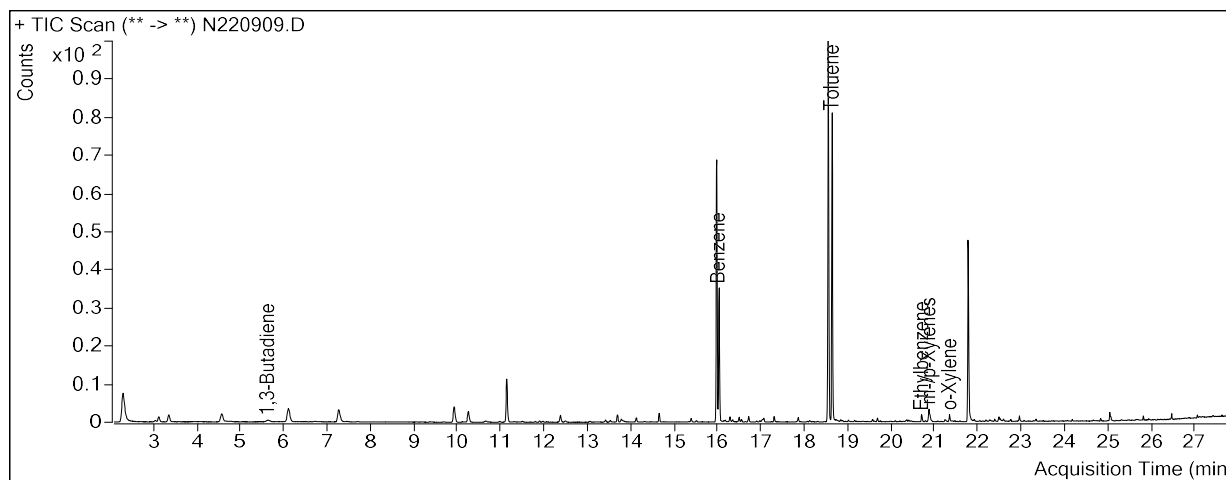


Sample Name : USSCL-PT04-S-20221108
Sample Info : B20148
Data File : N220908.D
Acquisition Date : 2022-11-28 18:42:32
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



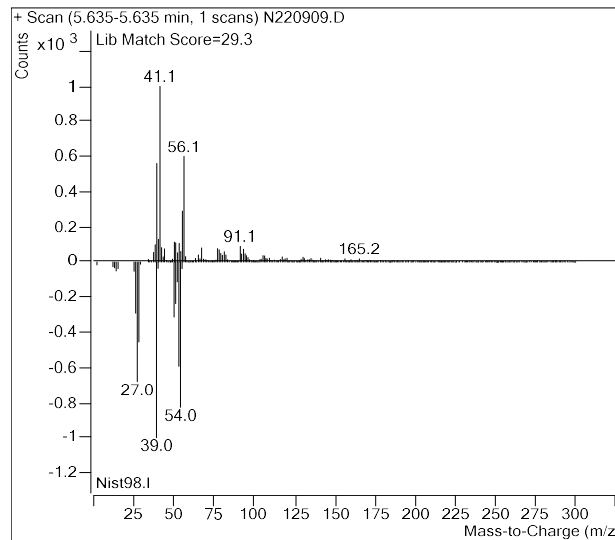
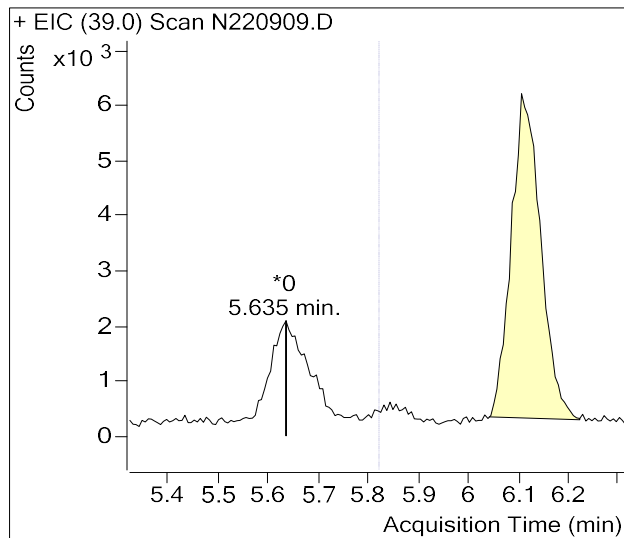
Sample Name : USSCL-PT05-S-20221108
Sample Info : B43708
Data File : N220909.D
Acquisition Date : 2022-11-28 19:22:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,325,187	
Benzene	16.03	626,294	
Toluene-d8 (IS)	18.55	1,419,331	
Toluene	18.64	1,235,543	
Ethylbenzene	20.70	31,459	
m-/p-Xylenes	20.89	63,824	
o-Xylene	21.32	24,320	

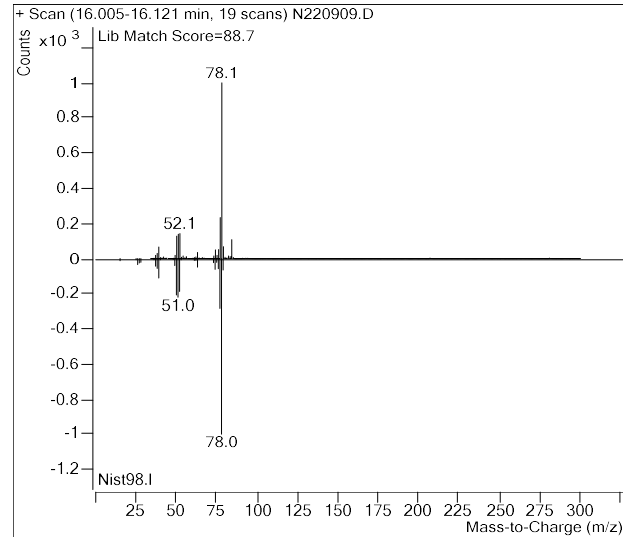
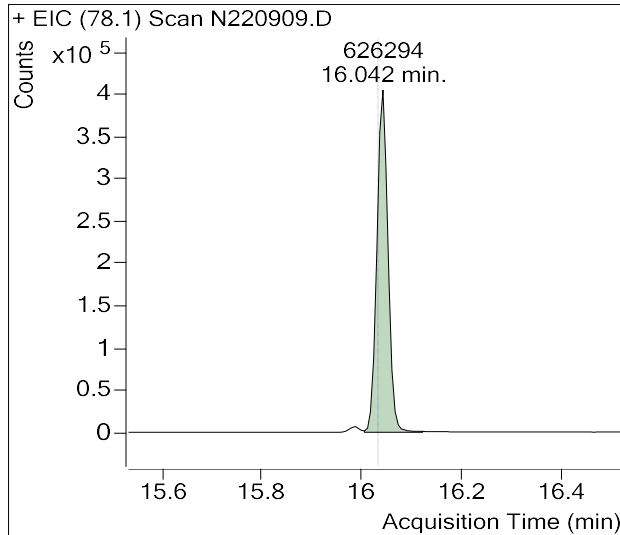
(m)=Manual Integration

1,3-Butadiene

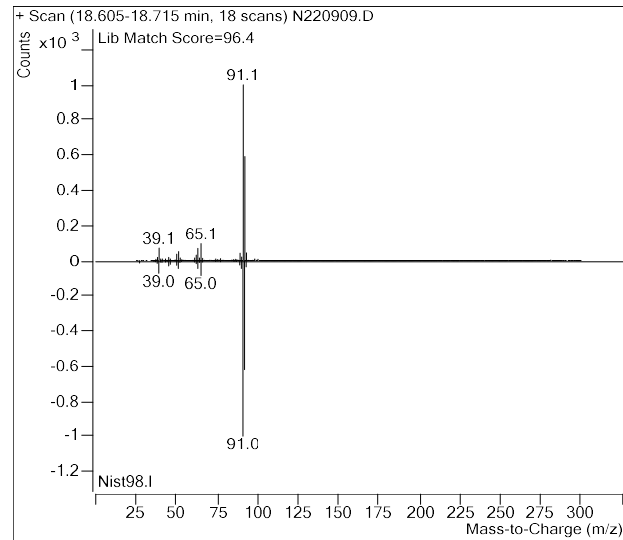
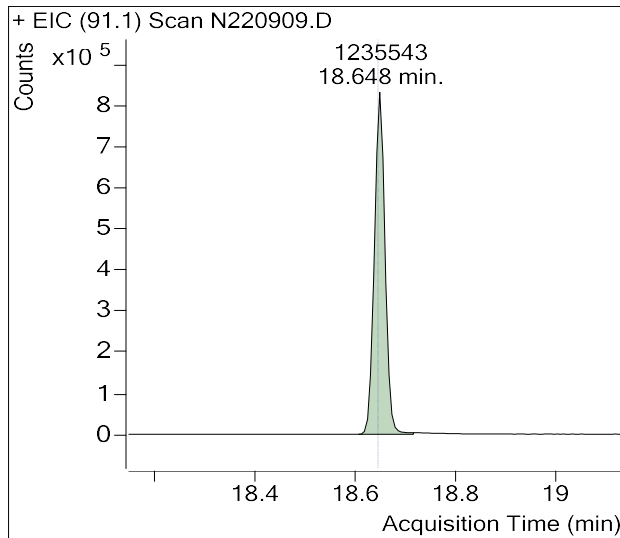


Sample Name : USSCL-PT05-S-20221108
Sample Info : B43708
Data File : N220909.D
Acquisition Date : 2022-11-28 19:22:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



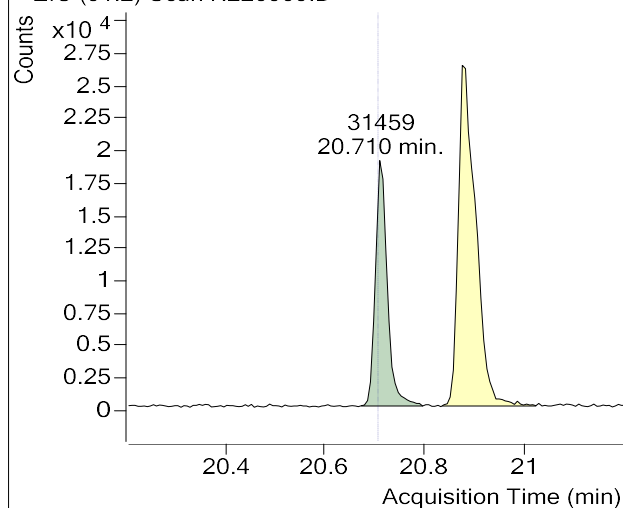
Toluene



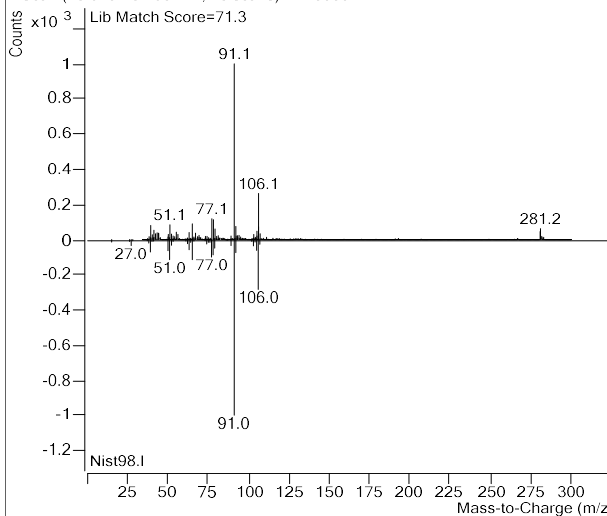
Sample Name : USSCL-PT05-S-20221108
Sample Info : B43708
Data File : N220909.D
Acquisition Date : 2022-11-28 19:22:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220909.D

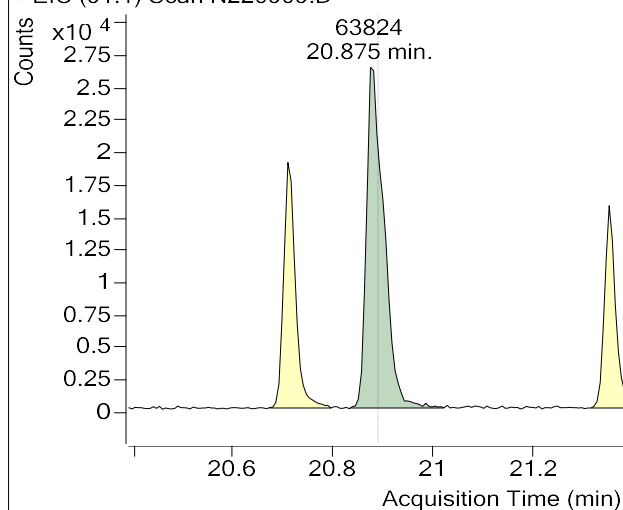


+ Scan (20.673-20.795 min, 20 scans) N220909.D

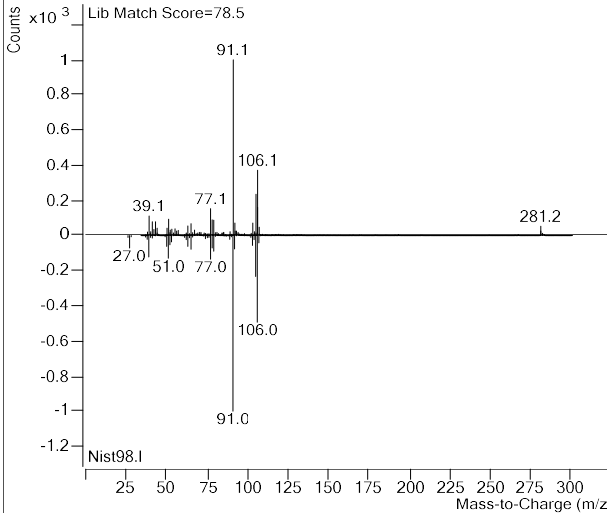


m-/p-Xylenes

+ EIC (91.1) Scan N220909.D

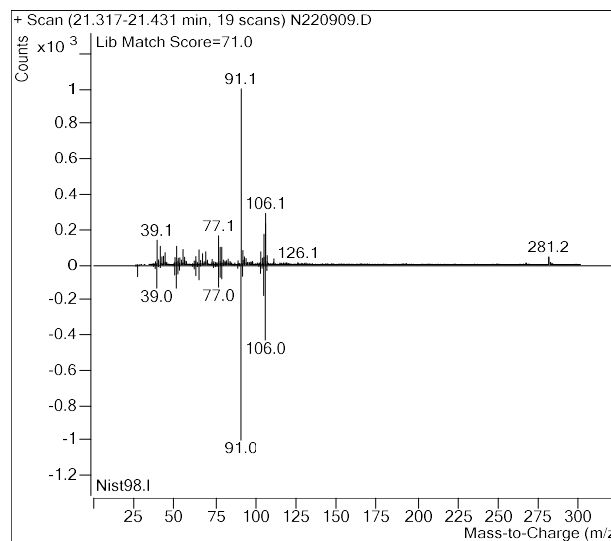
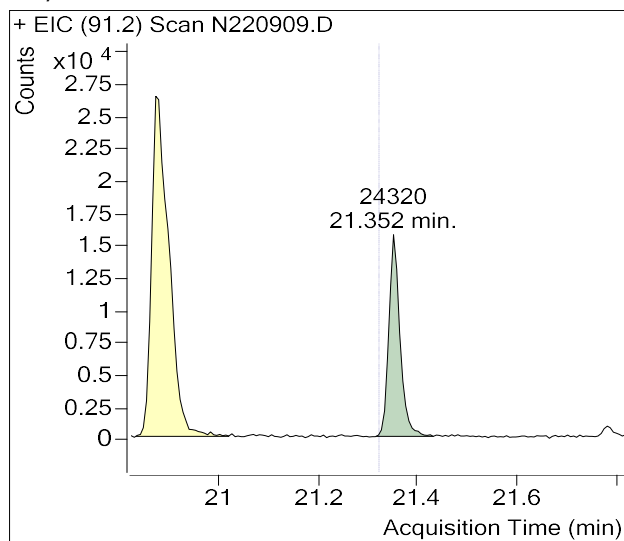


+ Scan (20.835-21.022 min, 31 scans) N220909.D

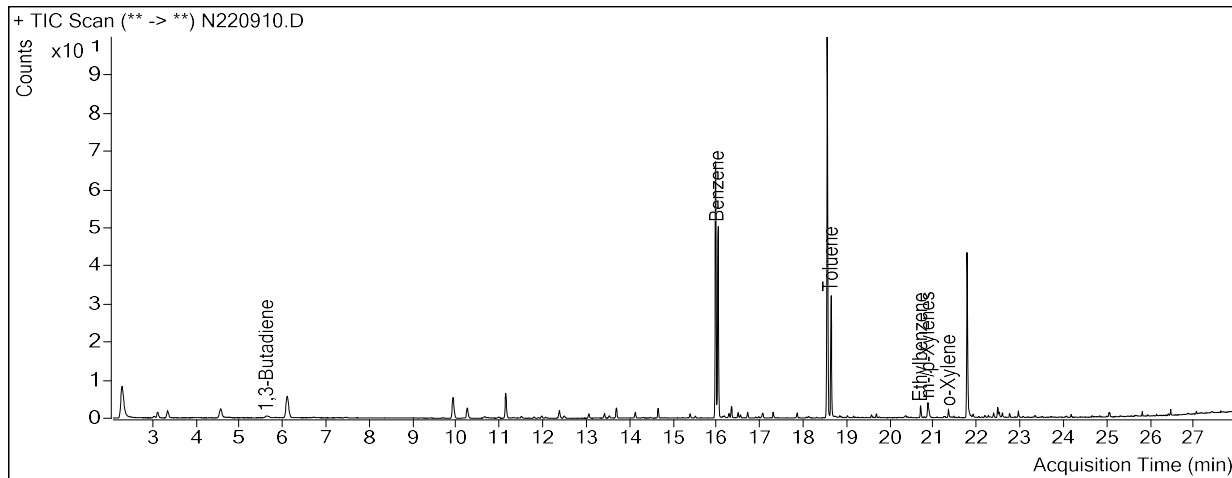


Sample Name : USSCL-PT05-S-20221108
Sample Info : B43708
Data File : N220909.D
Acquisition Date : 2022-11-28 19:22:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



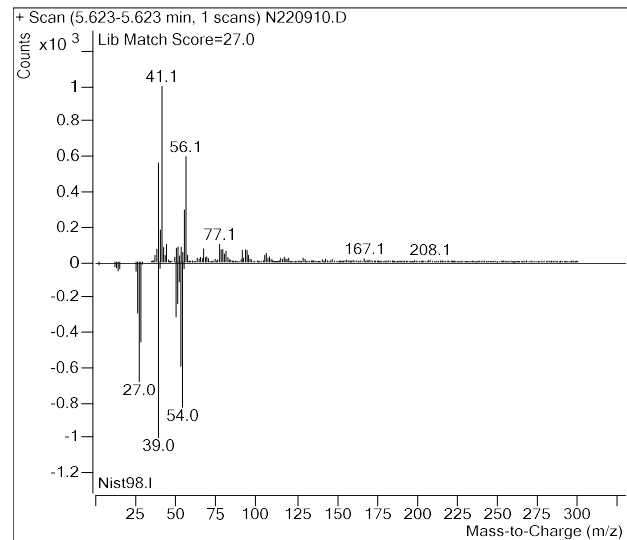
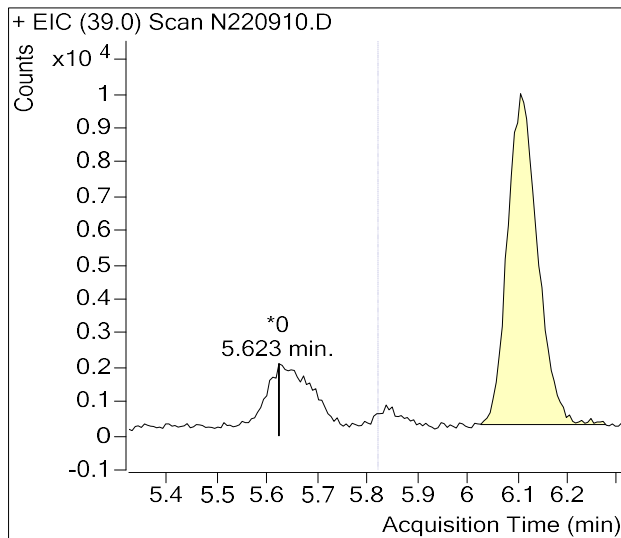
Sample Name : USSCL-PT06-S-20221108
Sample Info : B29810
Data File : N220910.D
Acquisition Date : 2022-11-28 20:02:05
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,337,710	
Benzene	16.03	907,503	
Toluene-d8 (IS)	18.55	1,432,105	
Toluene	18.64	497,617	
Ethylbenzene	20.70	54,856	
m-/p-Xylenes	20.89	76,565	
o-Xylene	21.32	28,960	

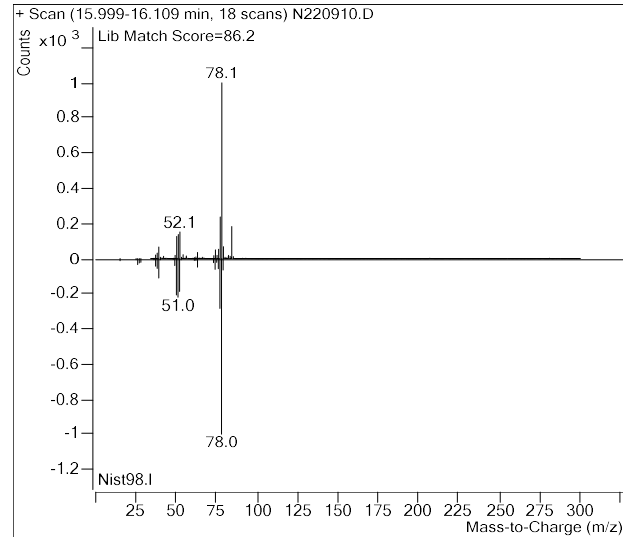
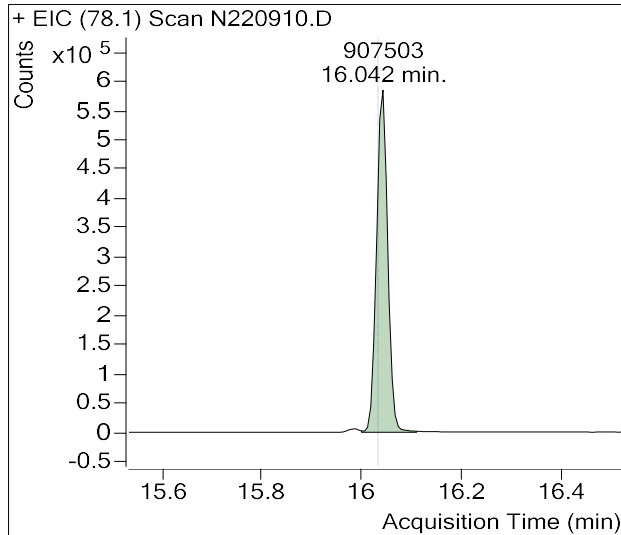
(m)=Manual Integration

1,3-Butadiene

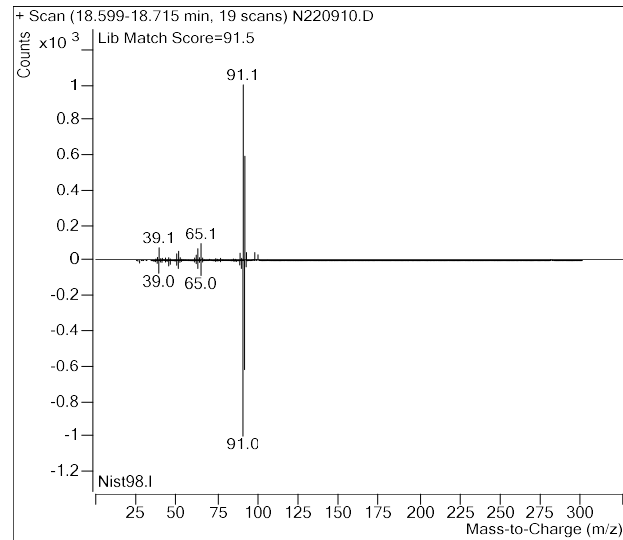
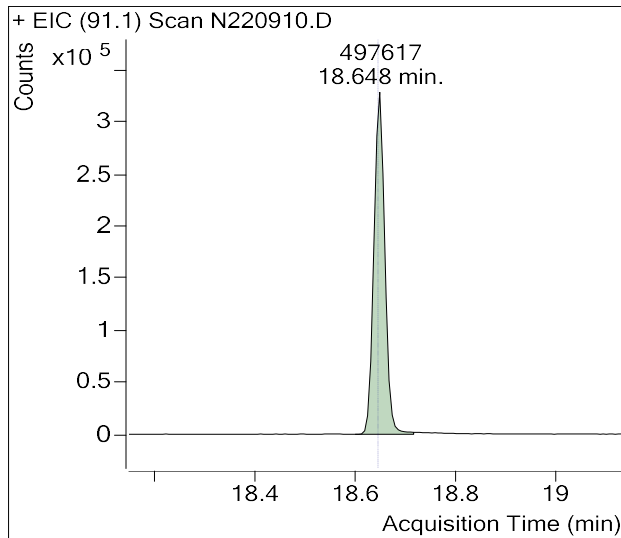


Sample Name : USSCL-PT06-S-20221108
Sample Info : B29810
Data File : N220910.D
Acquisition Date : 2022-11-28 20:02:05
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

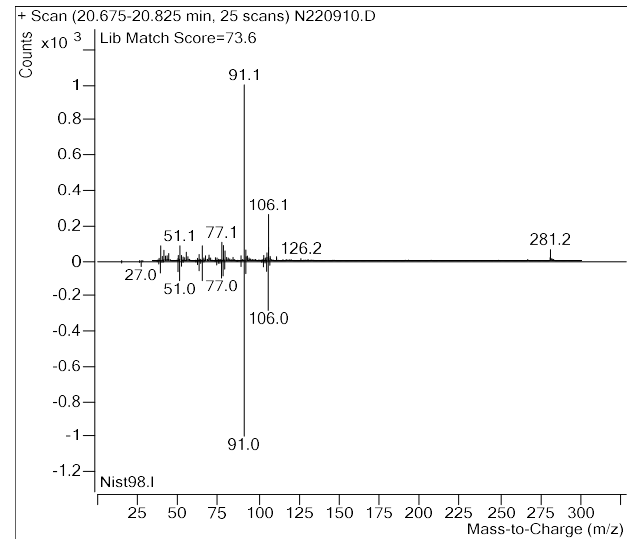
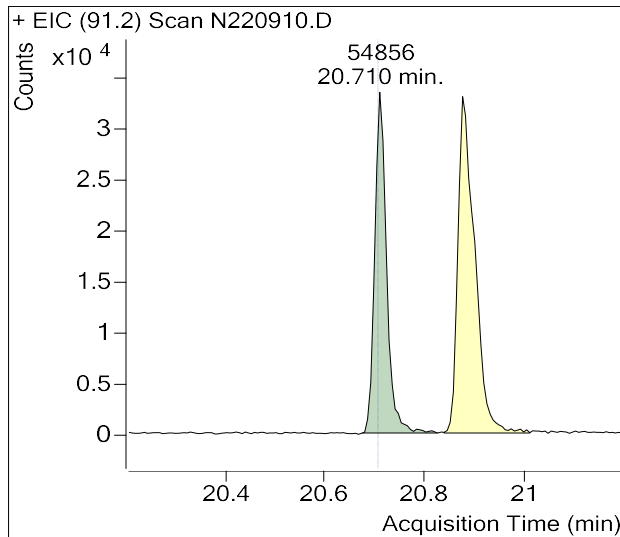


Toluene

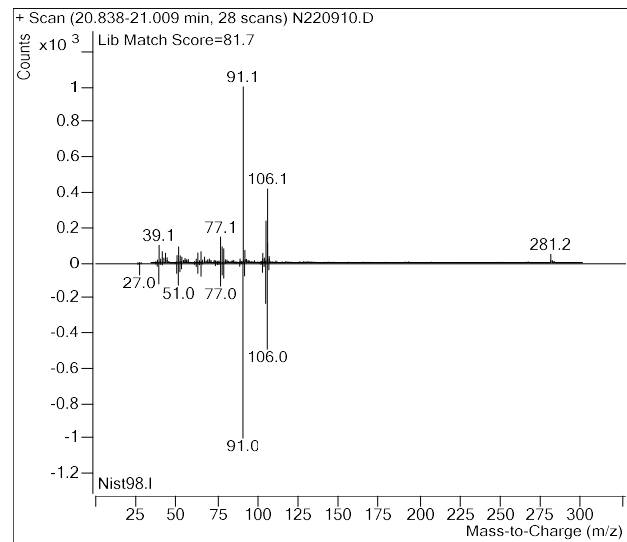
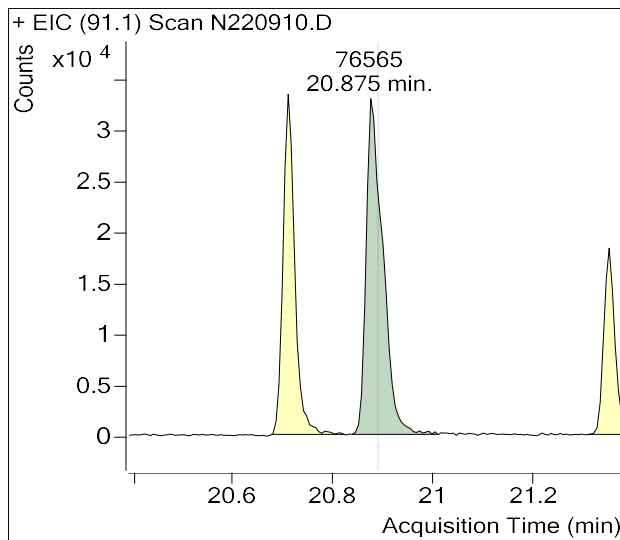


Sample Name : USSCL-PT06-S-20221108
Sample Info : B29810
Data File : N220910.D
Acquisition Date : 2022-11-28 20:02:05
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

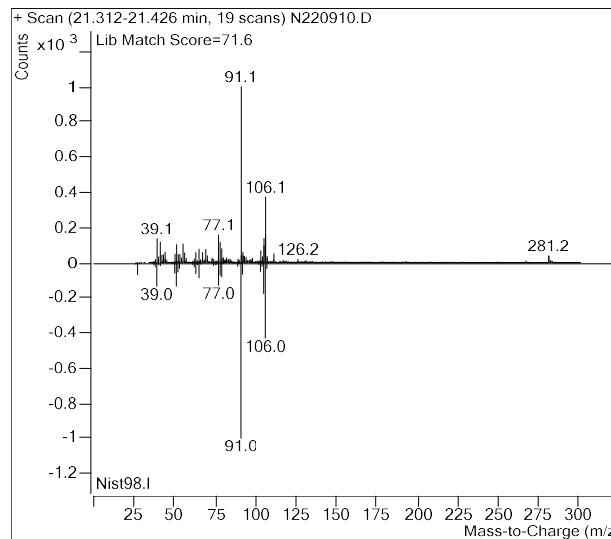
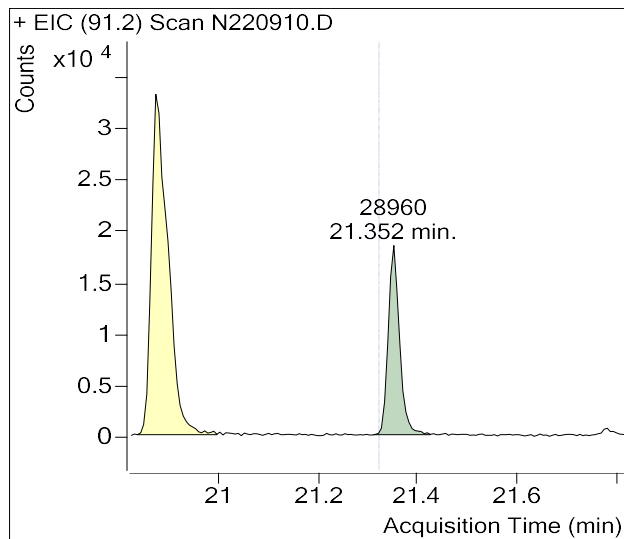


m-/p-Xylenes

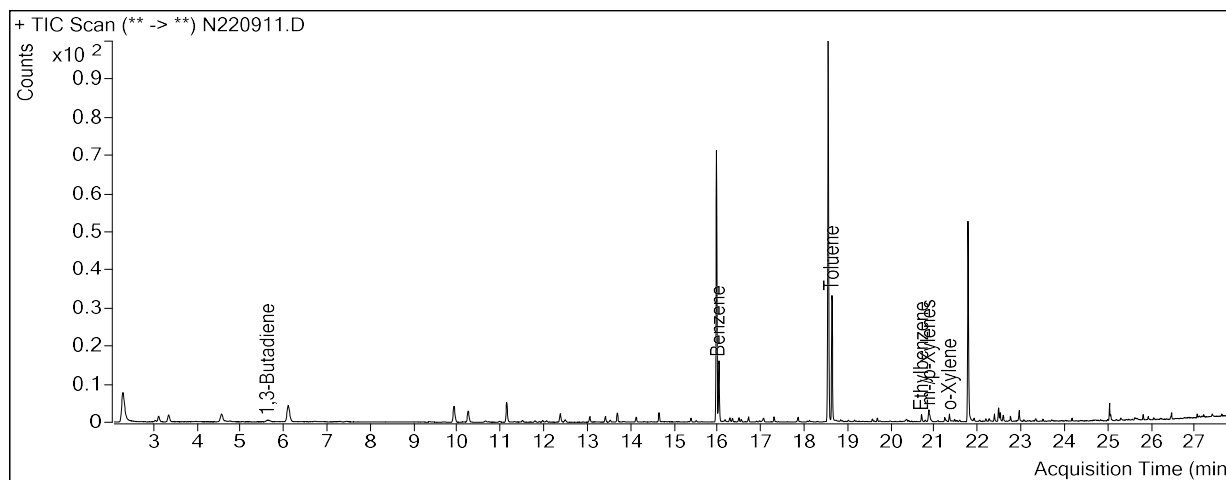


Sample Name : USSCL-PT06-S-20221108
Sample Info : B29810
Data File : N220910.D
Acquisition Date : 2022-11-28 20:02:05
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



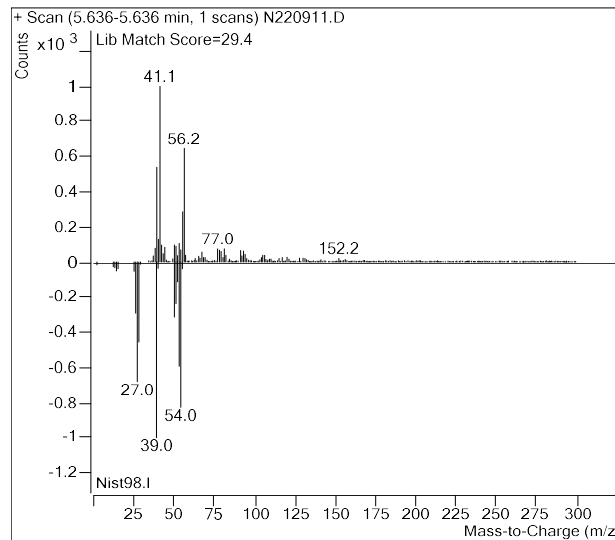
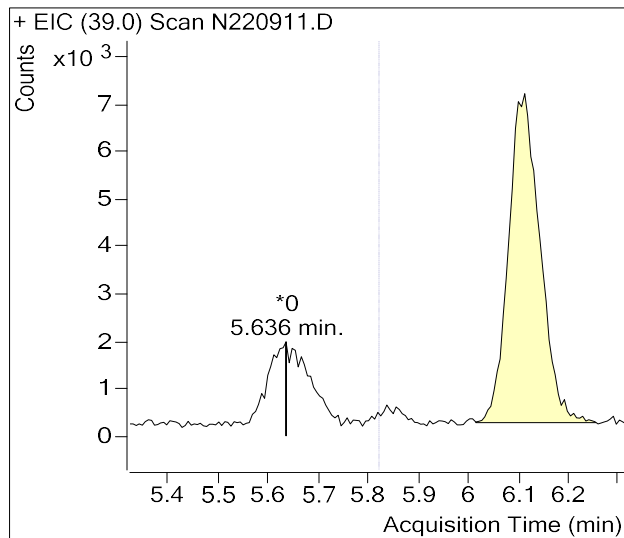
Sample Name : USSCL-PT07-S-20221108
Sample Info : B49733
Data File : N220911.D
Acquisition Date : 2022-11-28 20:41:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	0	m
Benzene-d6 (IS)	15.97	1,338,595	
Benzene	16.03	289,735	
Toluene-d8 (IS)	18.55	1,434,201	
Toluene	18.64	527,091	
Ethylbenzene	20.70	30,463	
m-/p-Xylenes	20.89	58,442	
o-Xylene	21.32	24,250	

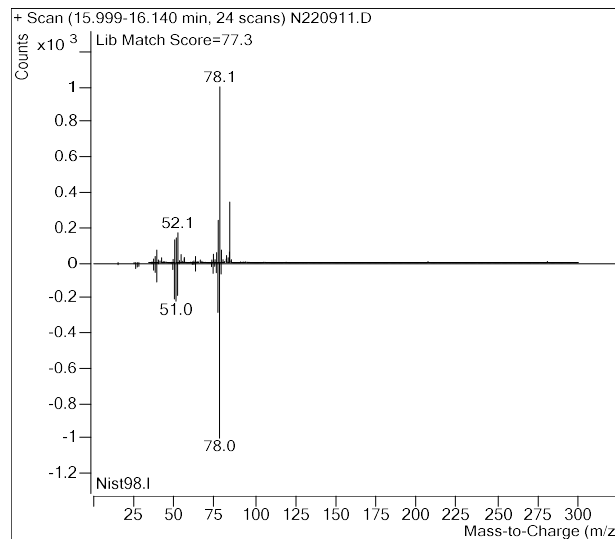
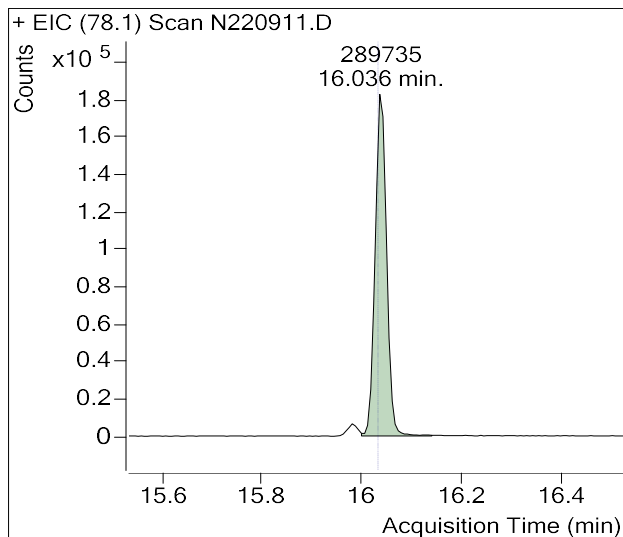
(m)=Manual Integration

1,3-Butadiene

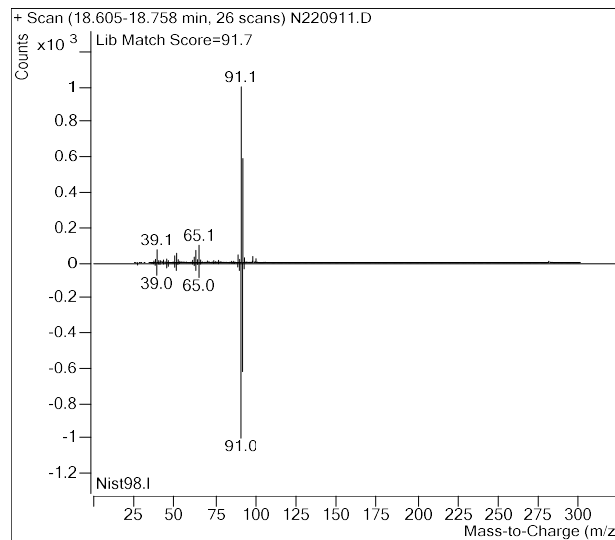
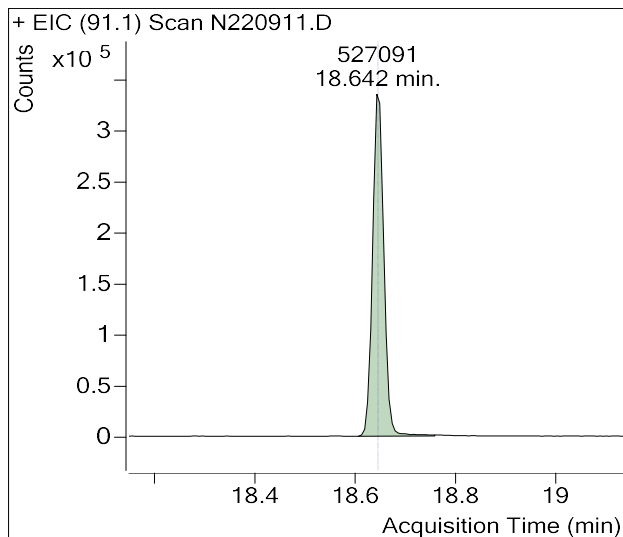


Sample Name : USSCL-PT07-S-20221108
Sample Info : B49733
Data File : N220911.D
Acquisition Date : 2022-11-28 20:41:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



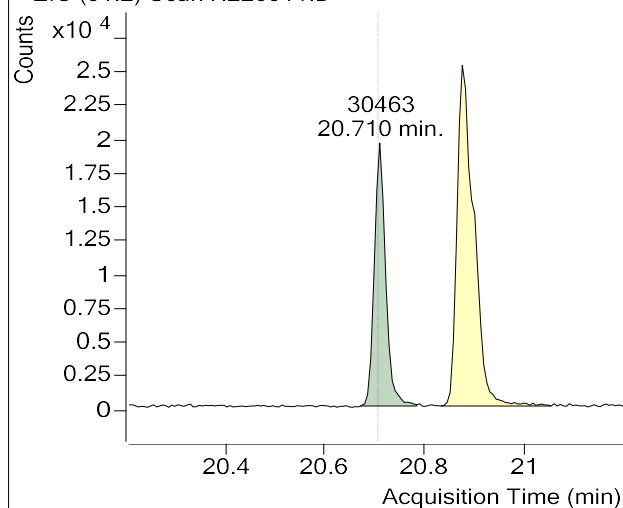
Toluene



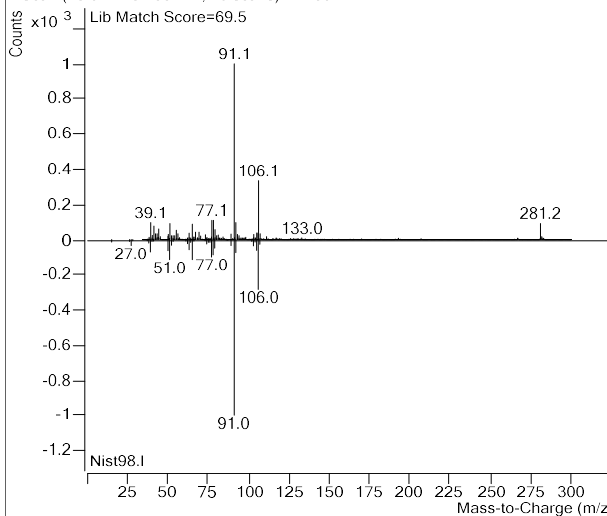
Sample Name : USSCL-PT07-S-20221108
Sample Info : B49733
Data File : N220911.D
Acquisition Date : 2022-11-28 20:41:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220911.D

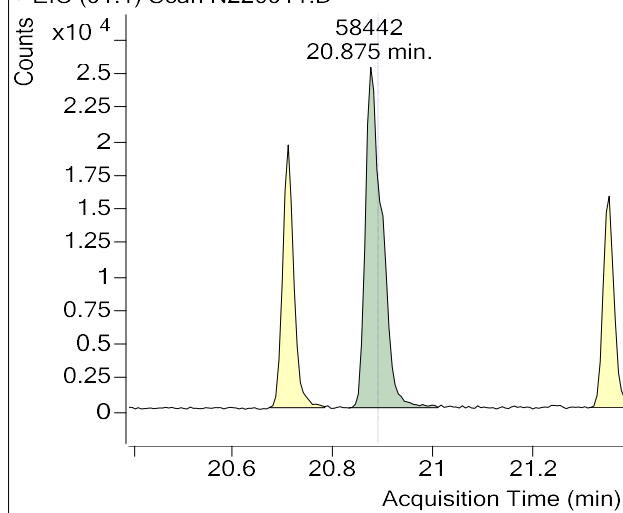


+ Scan (20.671-20.783 min, 19 scans) N220911.D

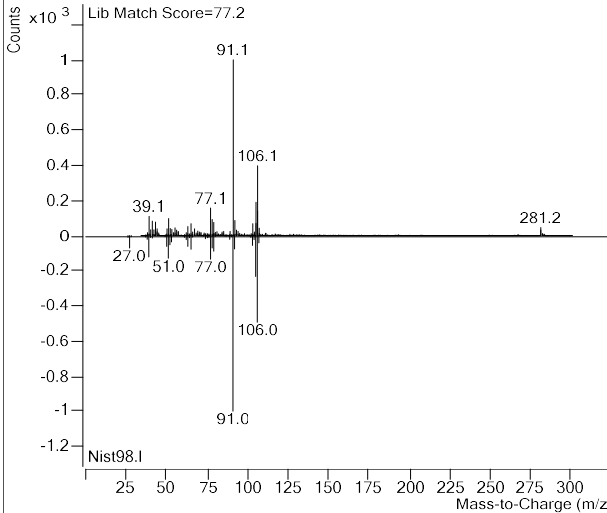


m-/p-Xylenes

+ EIC (91.1) Scan N220911.D



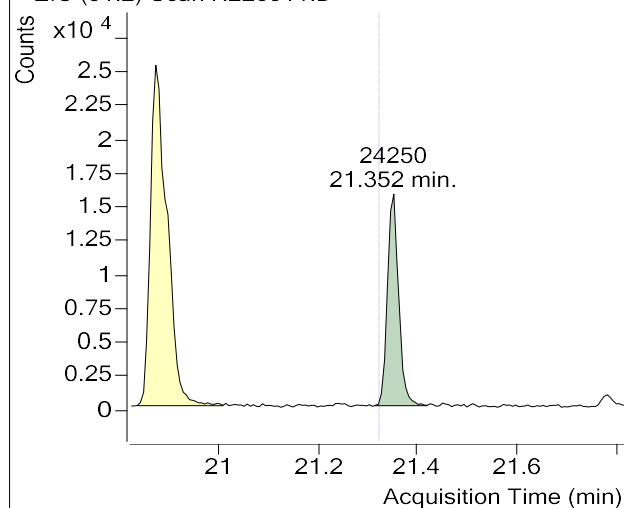
+ Scan (20.832-21.010 min, 30 scans) N220911.D



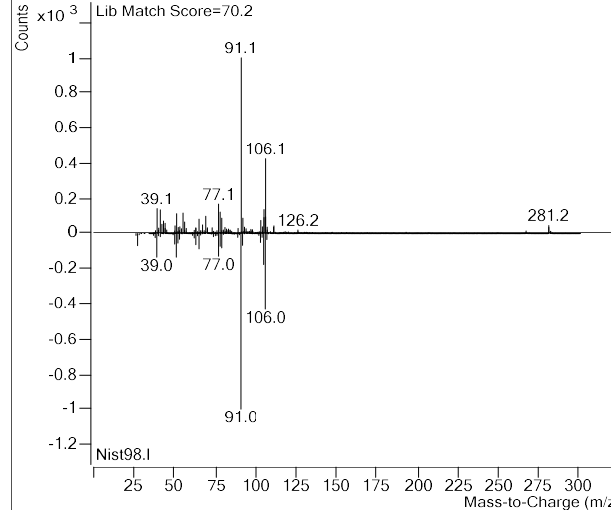
Sample Name : USSCL-PT07-S-20221108
Sample Info : B49733
Data File : N220911.D
Acquisition Date : 2022-11-28 20:41:52
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene

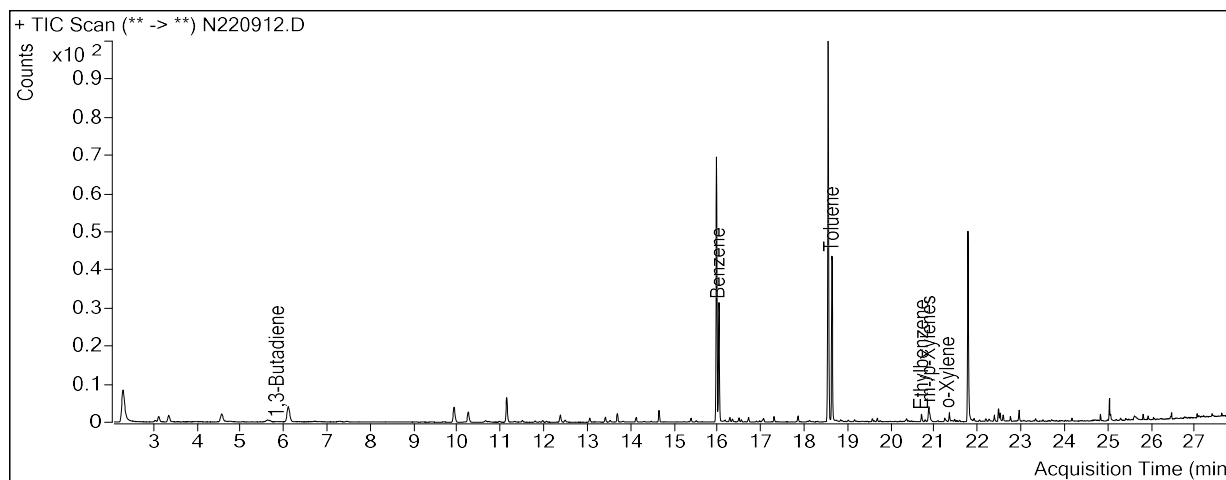
+ EIC (91.2) Scan N220911.D



+ Scan (21.314-21.419 min, 18 scans) N220911.D



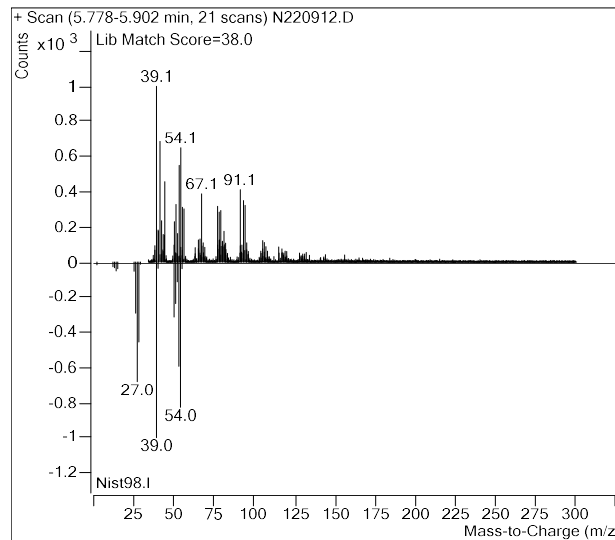
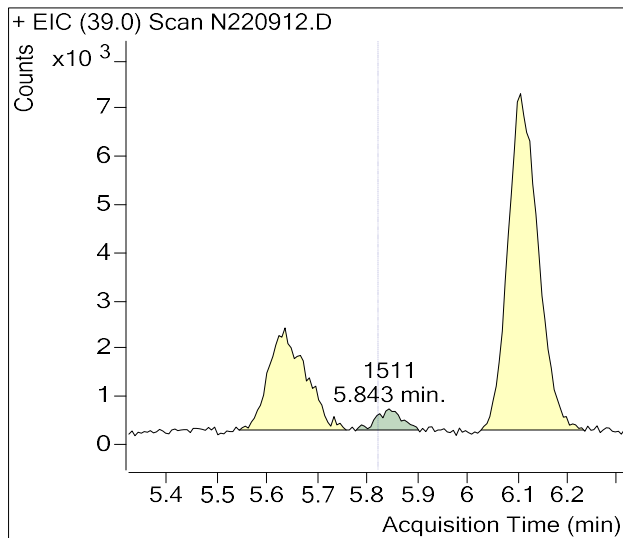
Sample Name : USSCL-PT08-S-20221108
Sample Info : B31668
Data File : N220912.D
Acquisition Date : 2022-11-28 21:21:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	1,511	
Benzene-d6 (IS)	15.97	1,354,891	
Benzene	16.03	577,837	
Toluene-d8 (IS)	18.55	1,445,278	
Toluene	18.64	716,161	
Ethylbenzene	20.70	33,438	
m-/p-Xylenes	20.89	74,706	
o-Xylene	21.32	30,040	

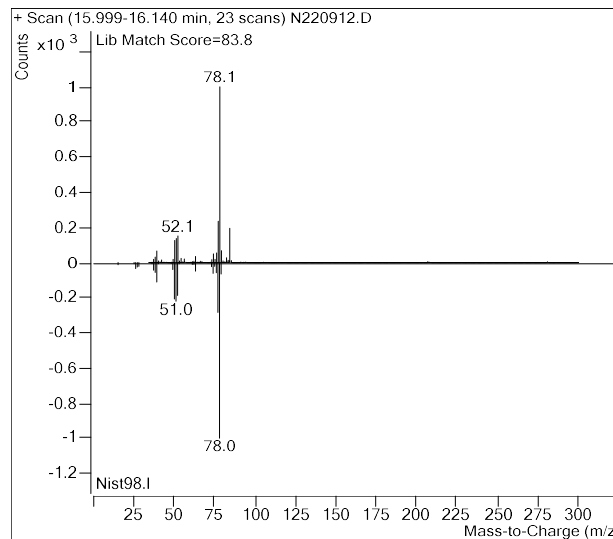
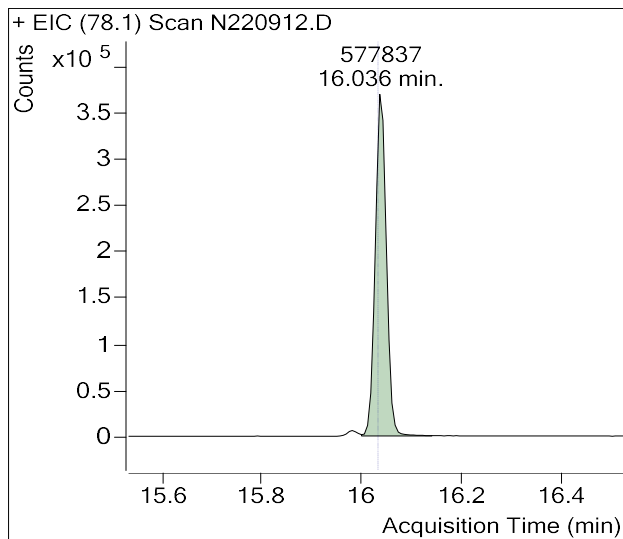
(m)=Manual Integration

1,3-Butadiene

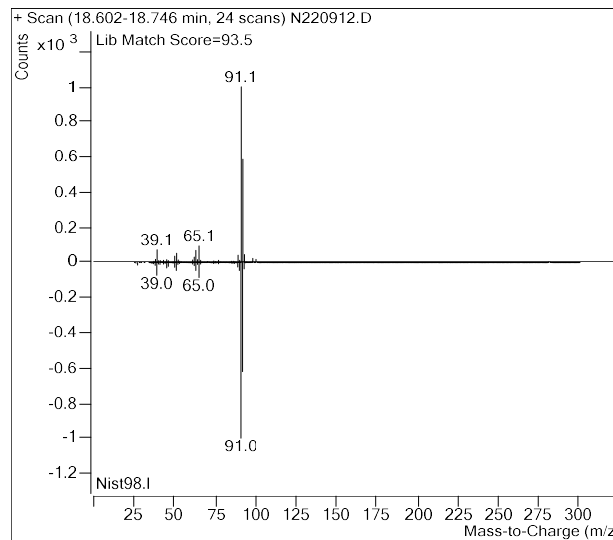
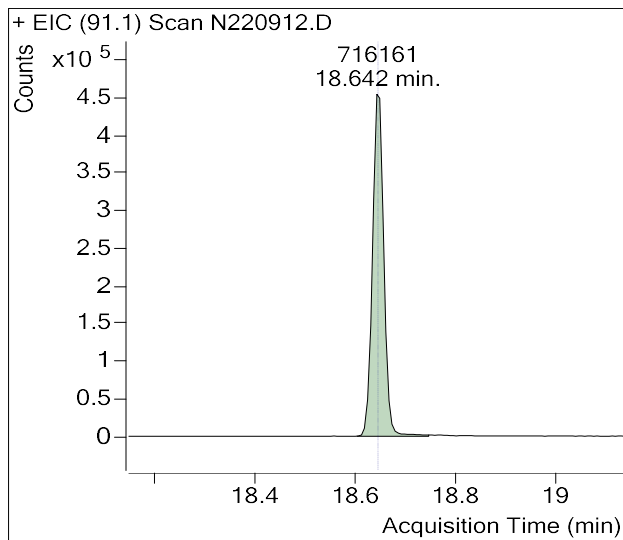


Sample Name : USSCL-PT08-S-20221108
Sample Info : B31668
Data File : N220912.D
Acquisition Date : 2022-11-28 21:21:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



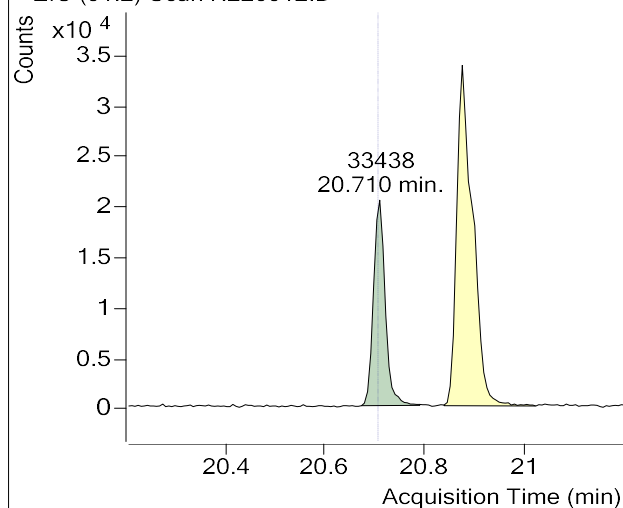
Toluene



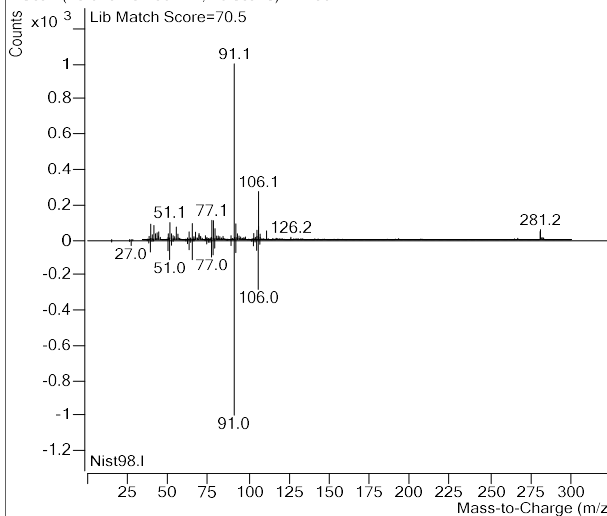
Sample Name : USSCL-PT08-S-20221108
Sample Info : B31668
Data File : N220912.D
Acquisition Date : 2022-11-28 21:21:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220912.D

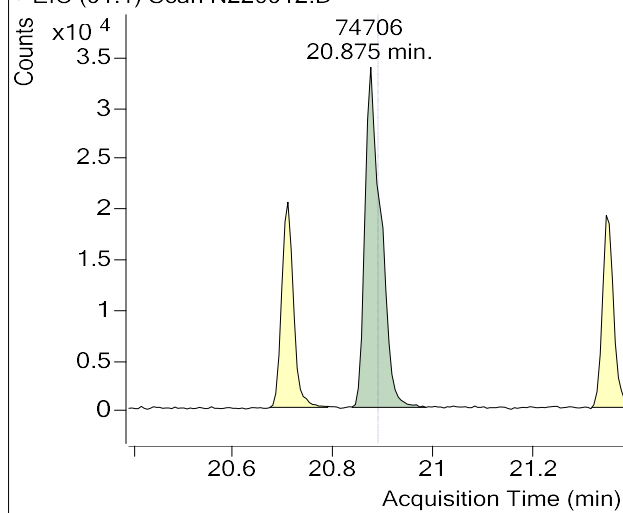


+ Scan (20.673-20.789 min, 19 scans) N220912.D

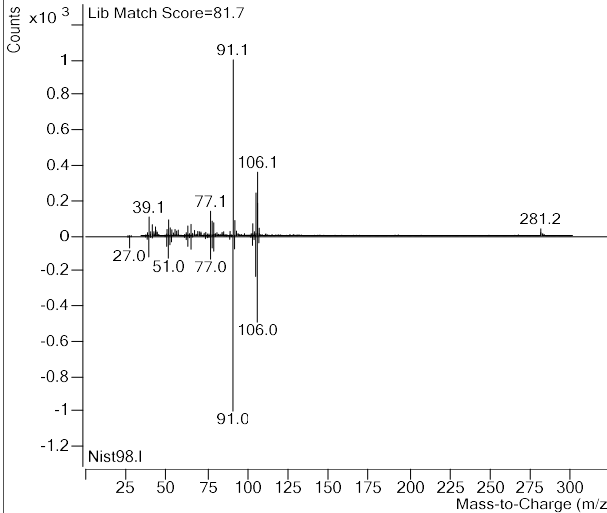


m-/p-Xylenes

+ EIC (91.1) Scan N220912.D

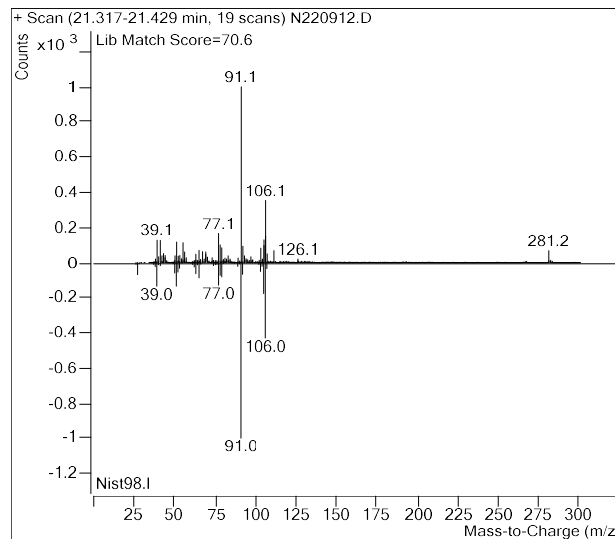
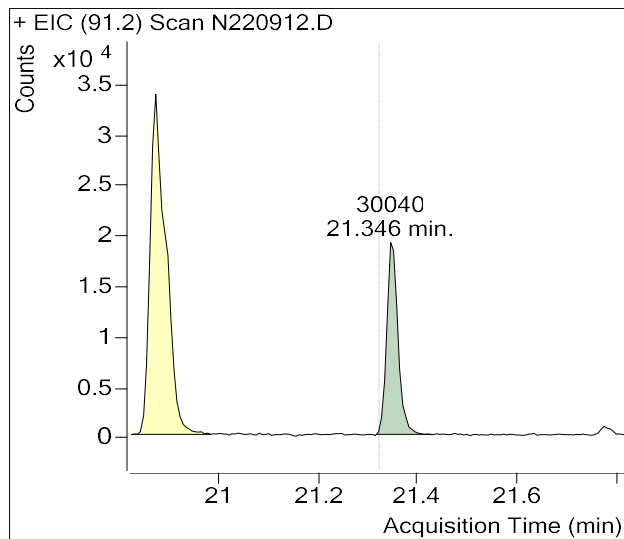


+ Scan (20.838-20.985 min, 25 scans) N220912.D

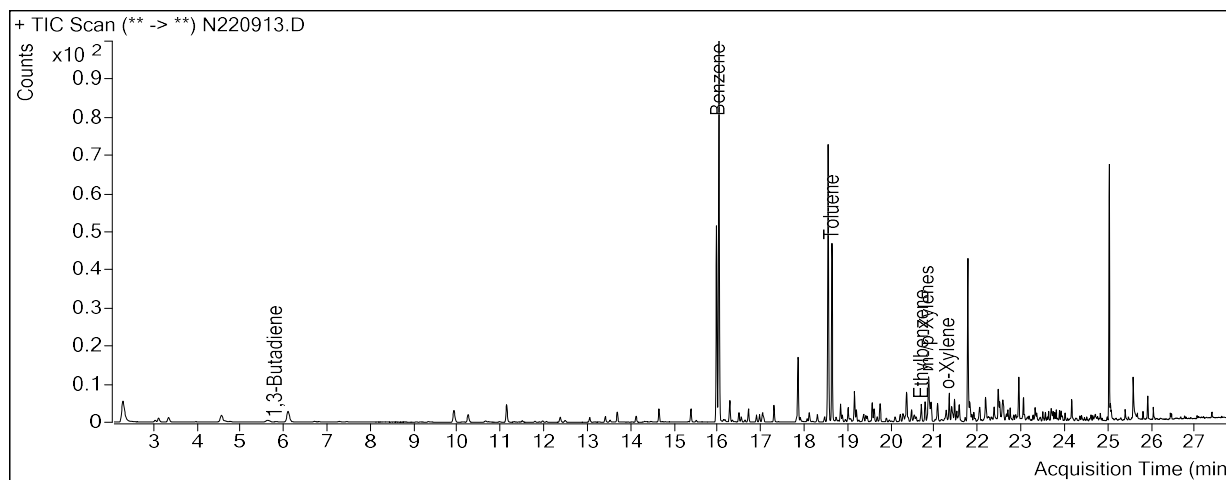


Sample Name : USSCL-PT08-S-20221108
Sample Info : B31668
Data File : N220912.D
Acquisition Date : 2022-11-28 21:21:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



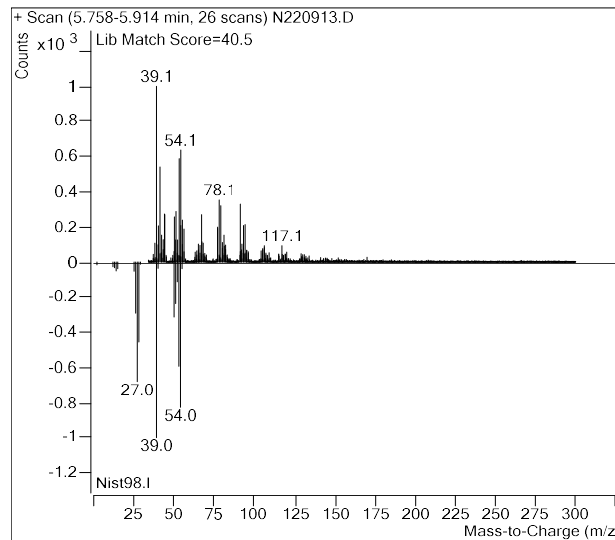
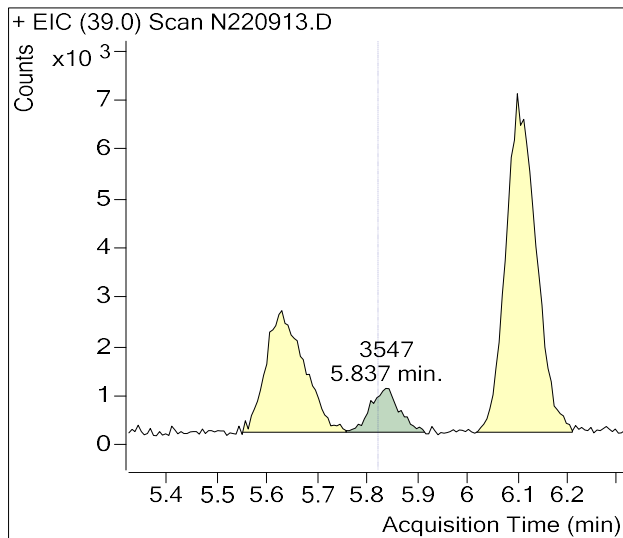
Sample Name : USSCL-PT09-S-20221108
Sample Info : C01831
Data File : N220913.D
Acquisition Date : 2022-11-28 22:01:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,547	
Benzene-d6 (IS)	15.97	1,344,162	
Benzene	16.03	2,469,275	
Toluene-d8 (IS)	18.55	1,459,450	
Toluene	18.64	994,368	
Ethylbenzene	20.70	86,864	
m-/p-Xylenes	20.89	255,526	
o-Xylene	21.32	104,448	

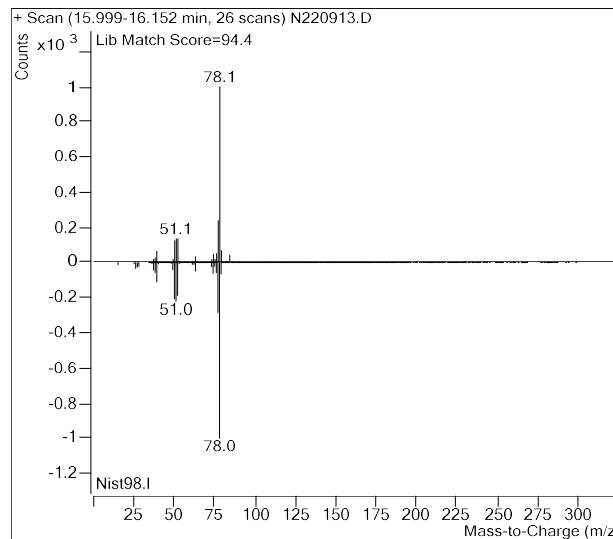
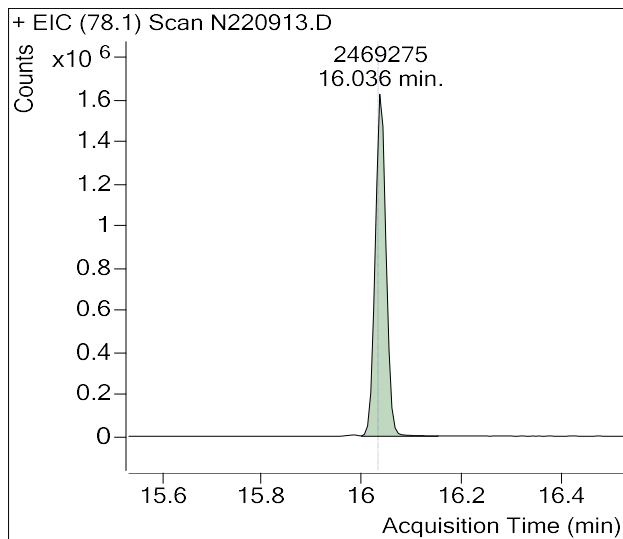
(m)=Manual Integration

1,3-Butadiene

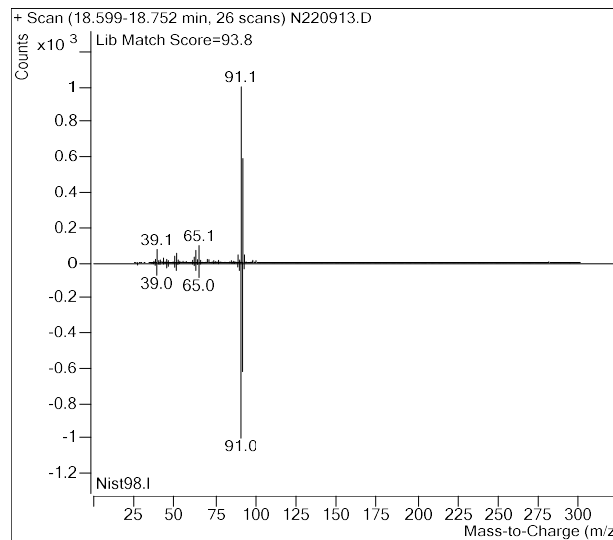
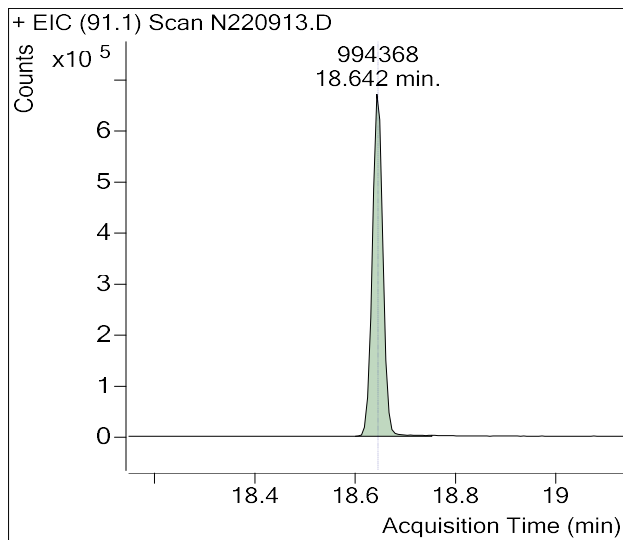


Sample Name : USSCL-PT09-S-20221108
Sample Info : C01831
Data File : N220913.D
Acquisition Date : 2022-11-28 22:01:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

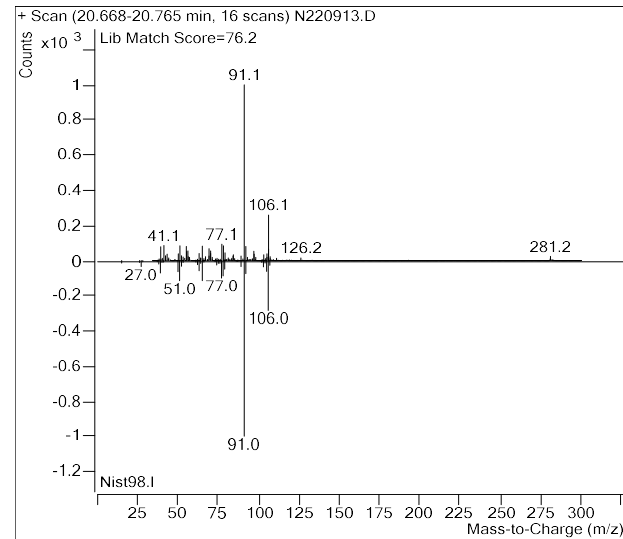
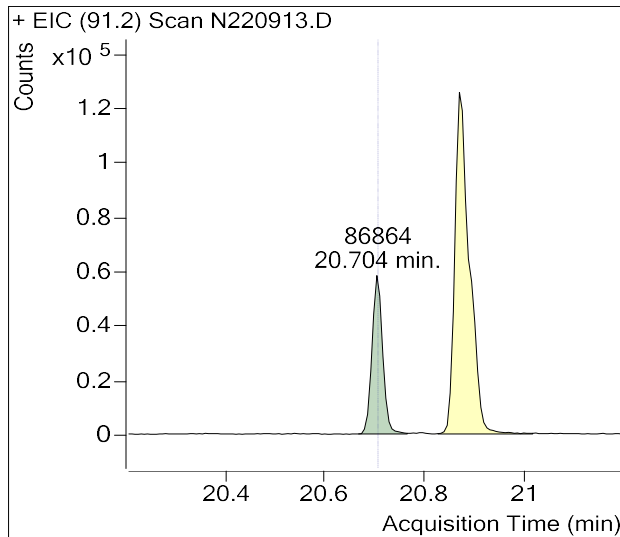


Toluene

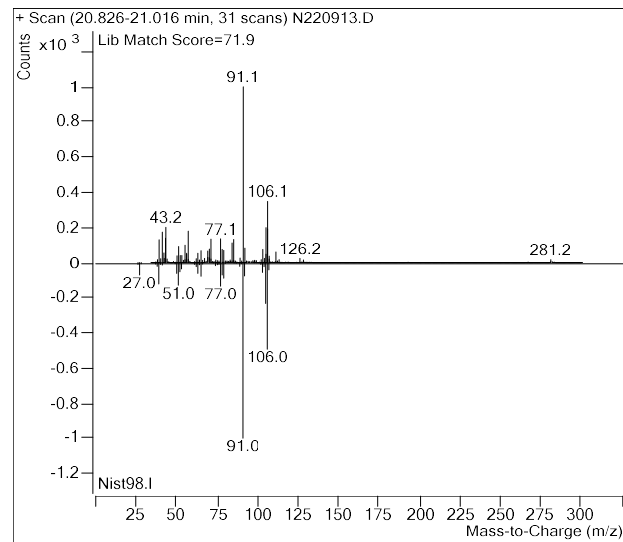
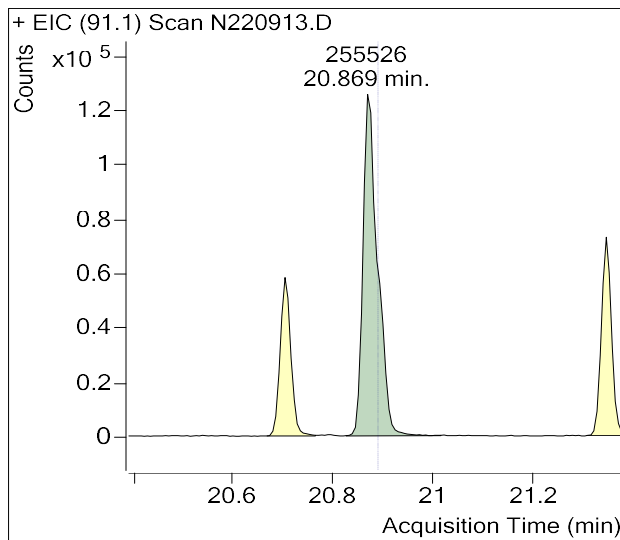


Sample Name : USSCL-PT09-S-20221108
Sample Info : C01831
Data File : N220913.D
Acquisition Date : 2022-11-28 22:01:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

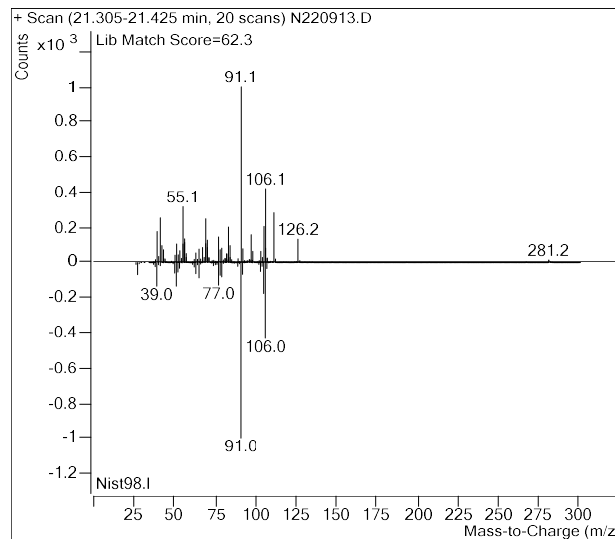
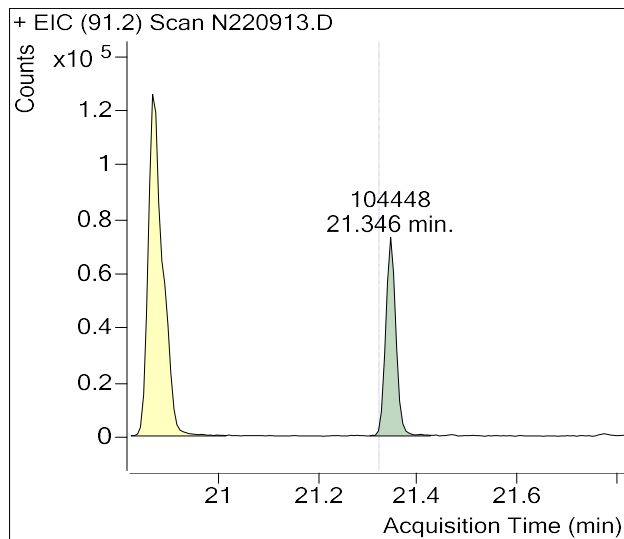


m-/p-Xylenes

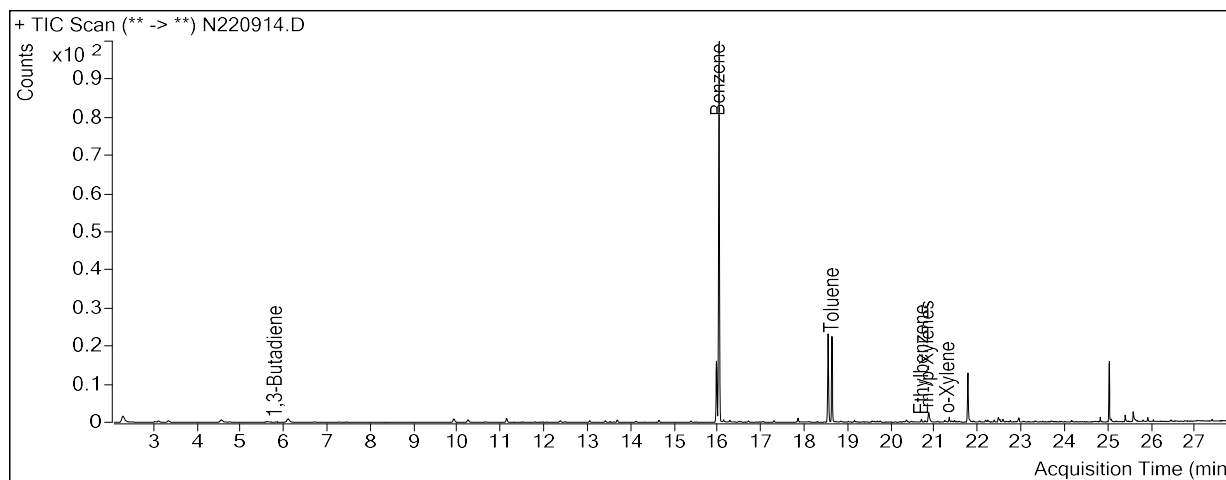


Sample Name : USSCL-PT09-S-20221108
Sample Info : C01831
Data File : N220913.D
Acquisition Date : 2022-11-28 22:01:26
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



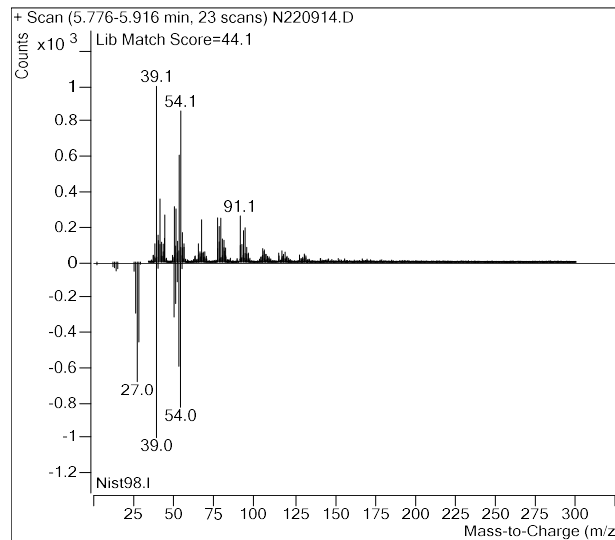
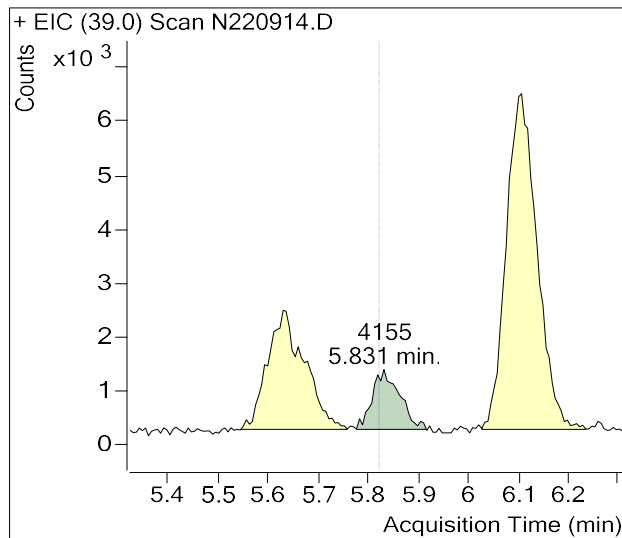
Sample Name : USSCL-PT10-S-20221108
Sample Info : B43396
Data File : N220914.D
Acquisition Date : 2022-11-28 22:41:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	4,155	
Benzene-d6 (IS)	15.97	1,381,203	
Benzene	16.03	7,648,631	
Toluene-d8 (IS)	18.55	1,494,193	
Toluene	18.64	1,529,677	
Ethylbenzene	20.70	47,949	
m-/p-Xylenes	20.89	201,175	
o-Xylene	21.32	65,912	

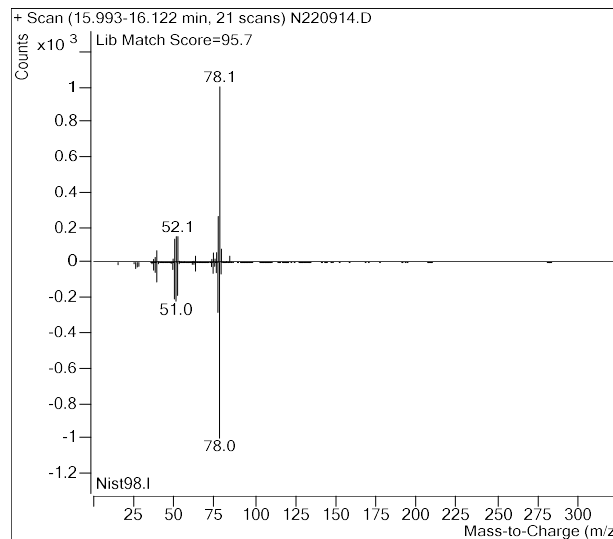
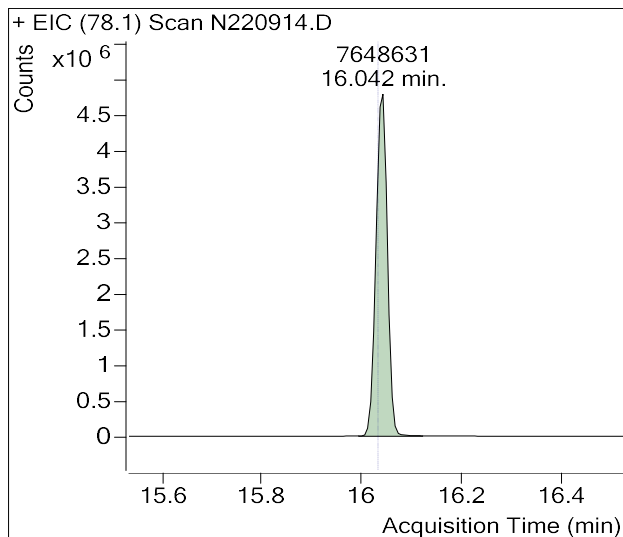
(m)=Manual Integration

1,3-Butadiene

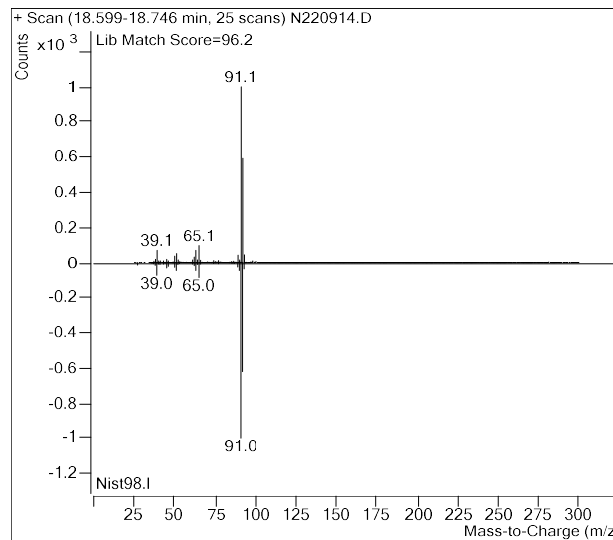
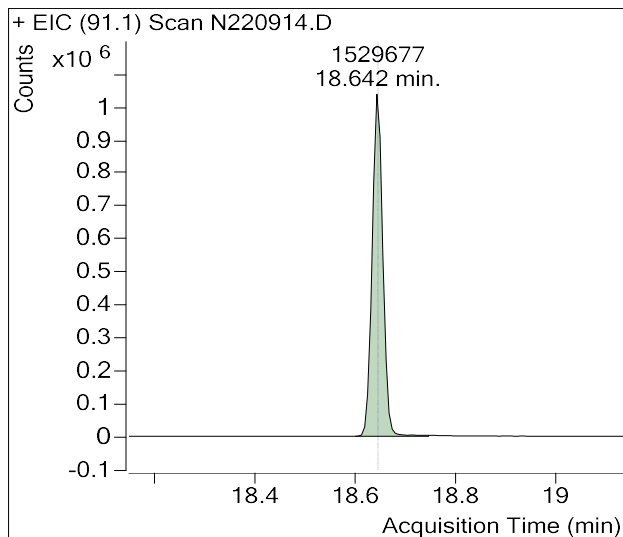


Sample Name : USSCL-PT10-S-20221108
Sample Info : B43396
Data File : N220914.D
Acquisition Date : 2022-11-28 22:41:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



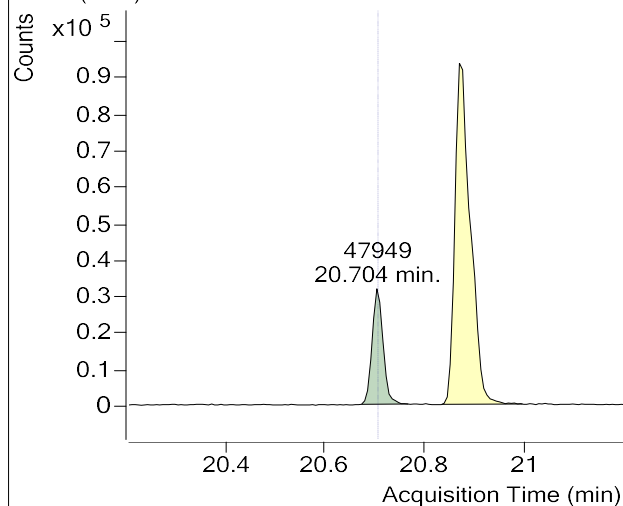
Toluene



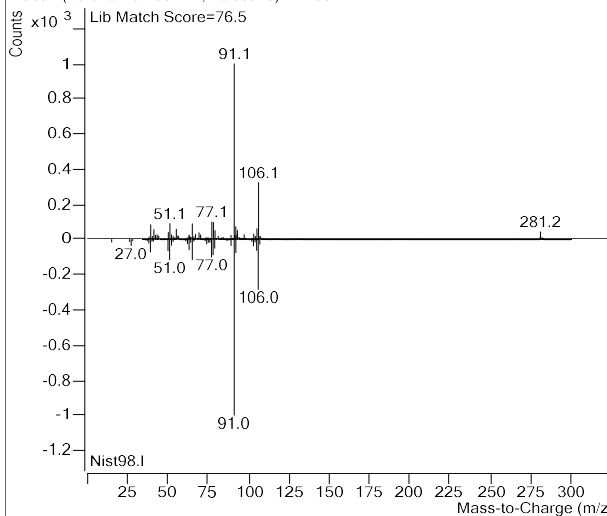
Sample Name : USSCL-PT10-S-20221108
Sample Info : B43396
Data File : N220914.D
Acquisition Date : 2022-11-28 22:41:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220914.D

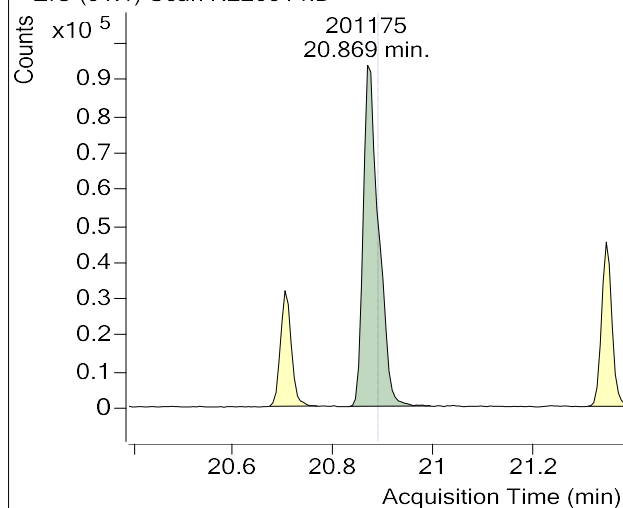


+ Scan (20.673-20.766 min, 16 scans) N220914.D

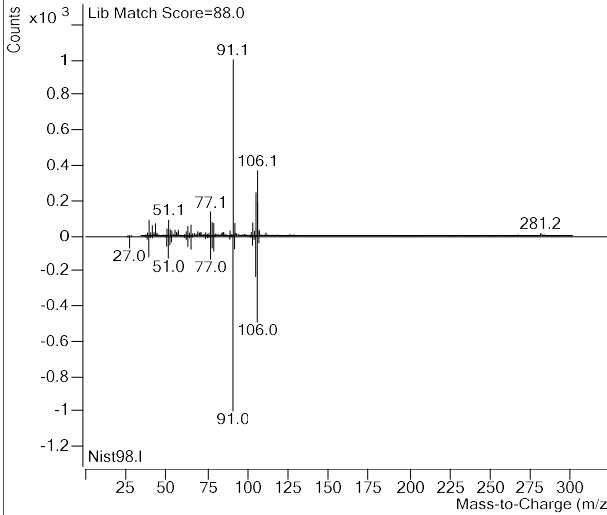


m-/p-Xylenes

+ EIC (91.1) Scan N220914.D

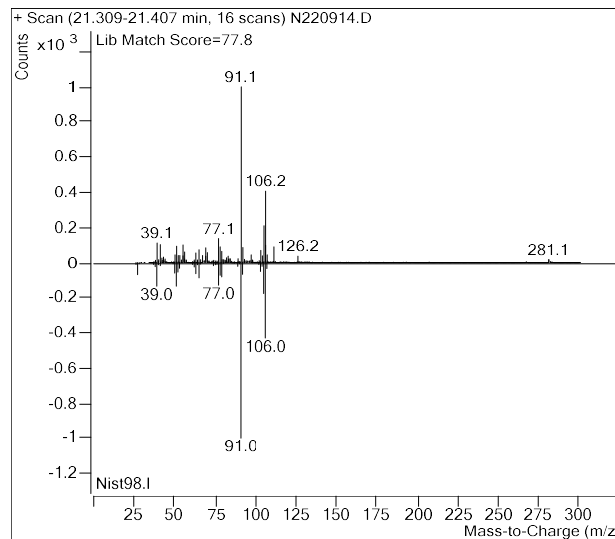
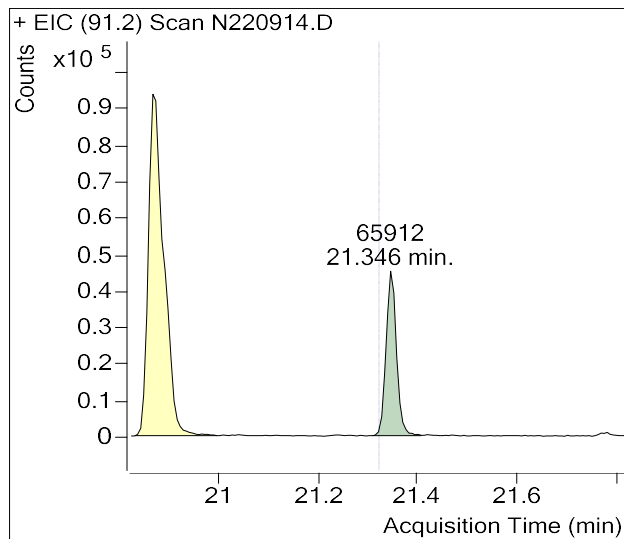


+ Scan (20.834-20.994 min, 27 scans) N220914.D

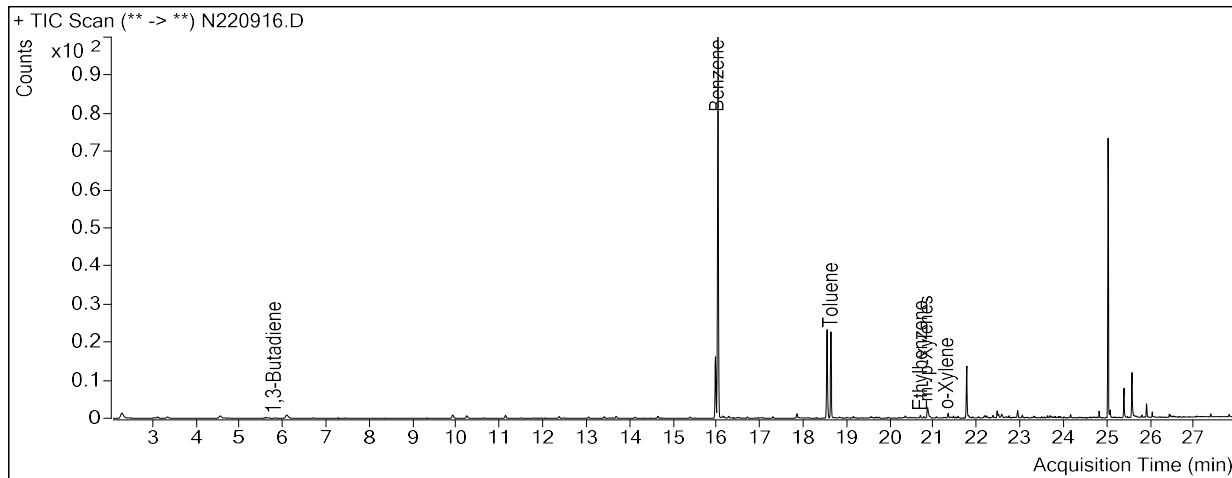


Sample Name : USSCL-PT10-S-20221108
Sample Info : B43396
Data File : N220914.D
Acquisition Date : 2022-11-28 22:41:12
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



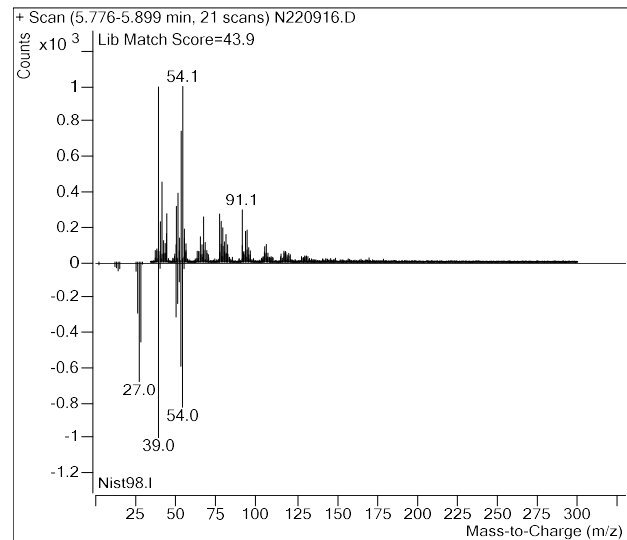
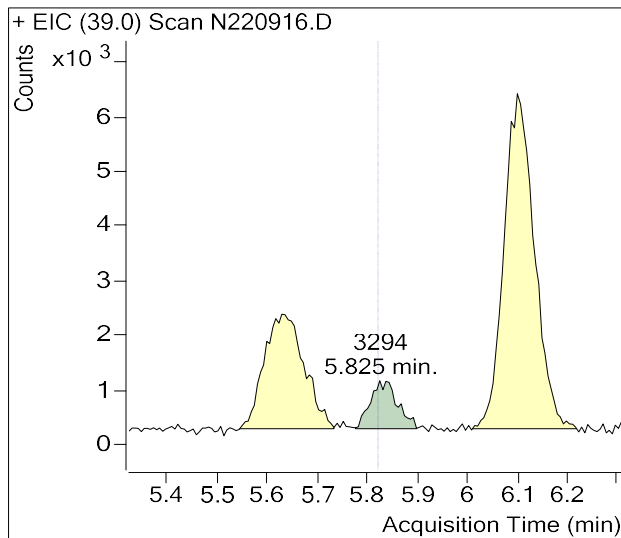
Sample Name : USSCL-PT10-D-20221108
Sample Info : B12139
Data File : N220916.D
Acquisition Date : 2022-11-29 00:00:46
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	3,294	
Benzene-d6 (IS)	15.97	1,373,999	
Benzene	16.03	7,591,237	
Toluene-d8 (IS)	18.55	1,497,675	
Toluene	18.64	1,520,526	
Ethylbenzene	20.70	48,464	
m-/p-Xylenes	20.89	215,959	
o-Xylene	21.32	67,106	

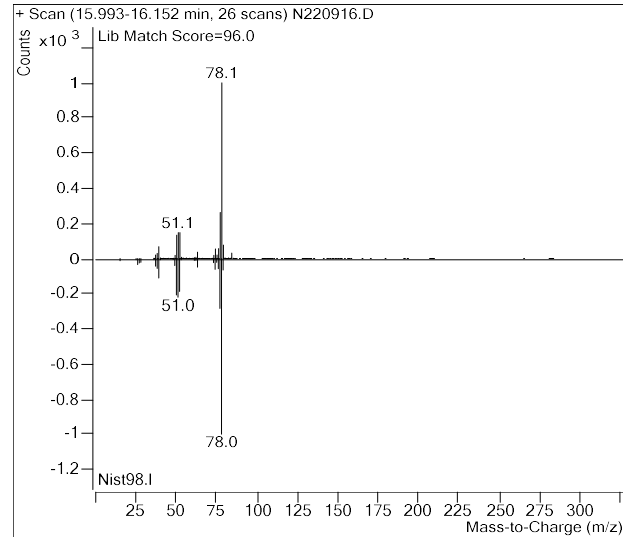
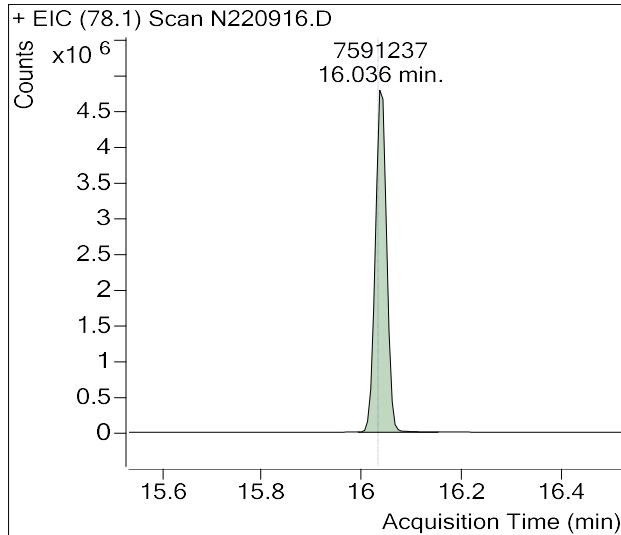
(m)=Manual Integration

1,3-Butadiene

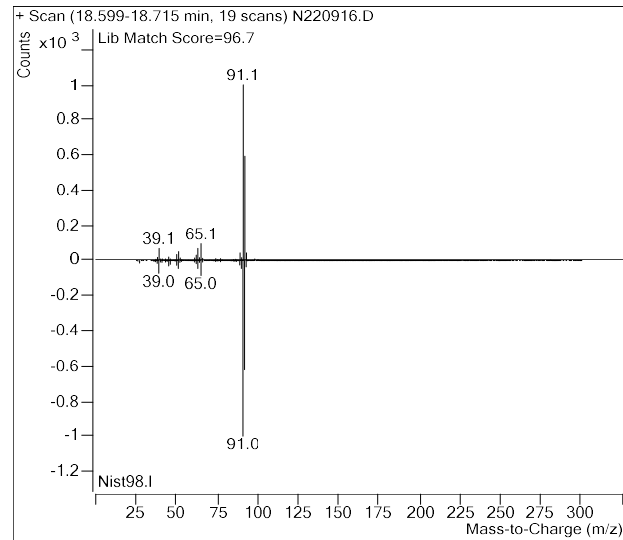
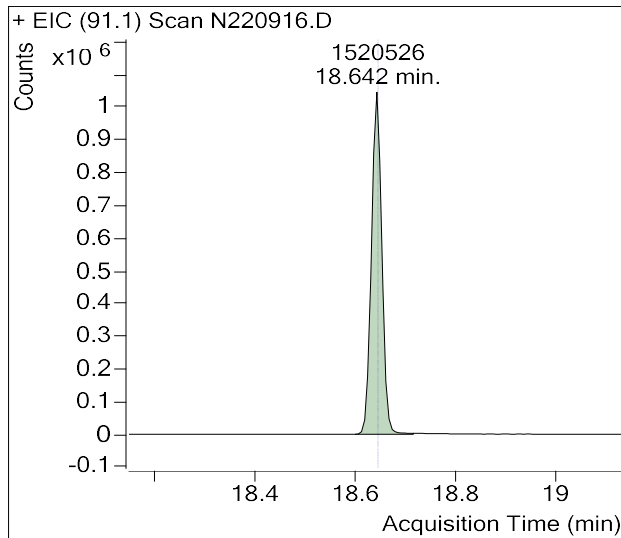


Sample Name : USSCL-PT10-D-20221108
Sample Info : B12139
Data File : N220916.D
Acquisition Date : 2022-11-29 00:00:46
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene



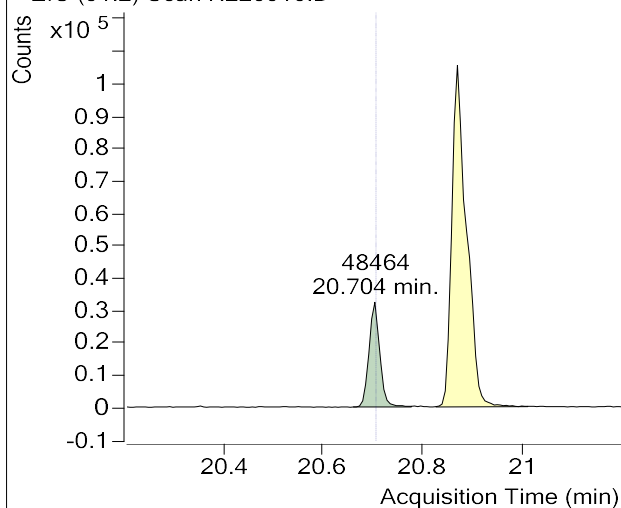
Toluene



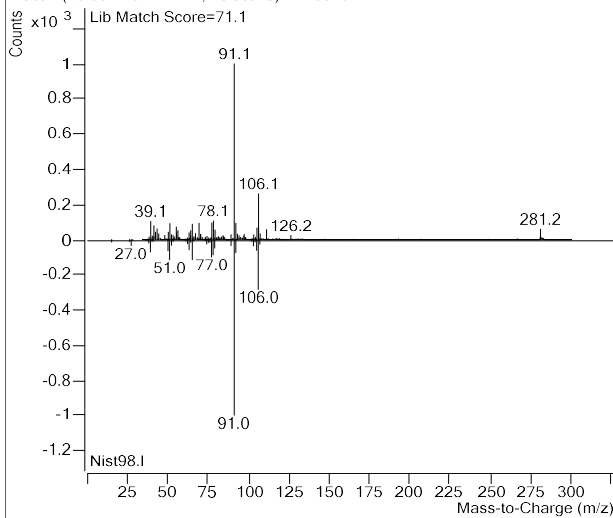
Sample Name : USSCL-PT10-D-20221108
Sample Info : B12139
Data File : N220916.D
Acquisition Date : 2022-11-29 00:00:46
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

+ EIC (91.2) Scan N220916.D

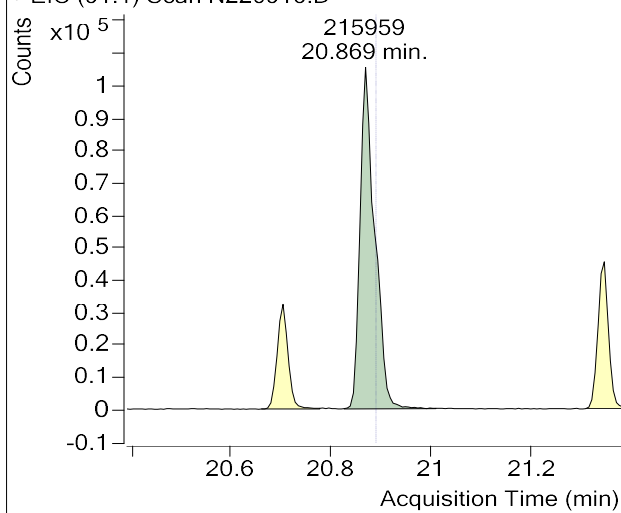


+ Scan (20.661-20.777 min, 20 scans) N220916.D

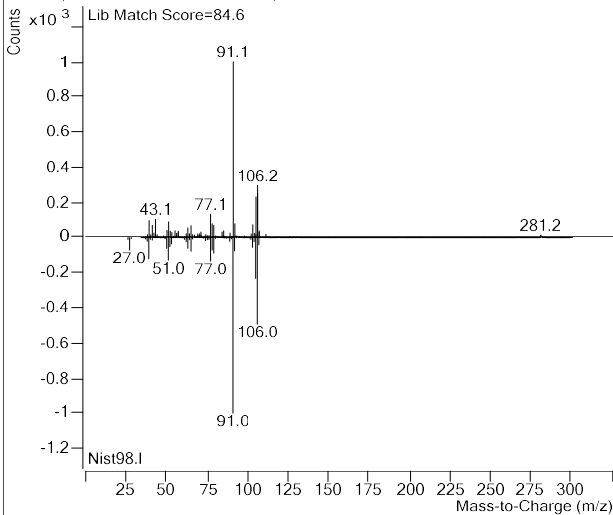


m-/p-Xylenes

+ EIC (91.1) Scan N220916.D

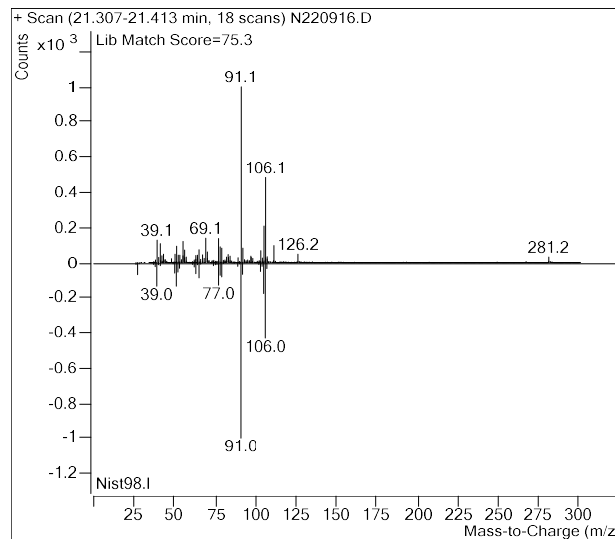
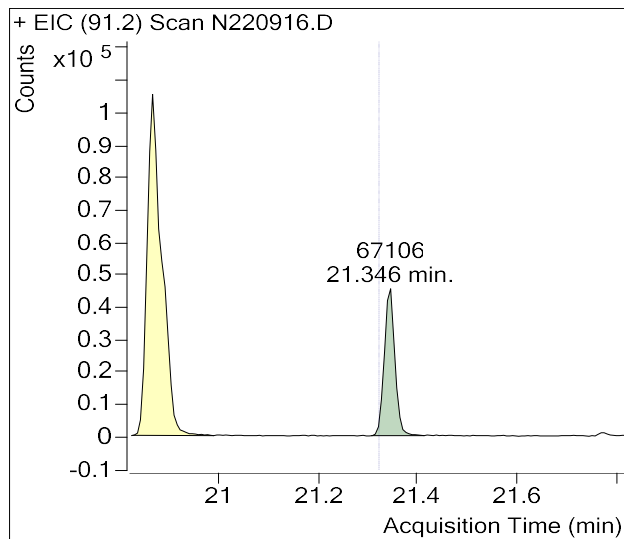


+ Scan (20.826-21.010 min, 30 scans) N220916.D

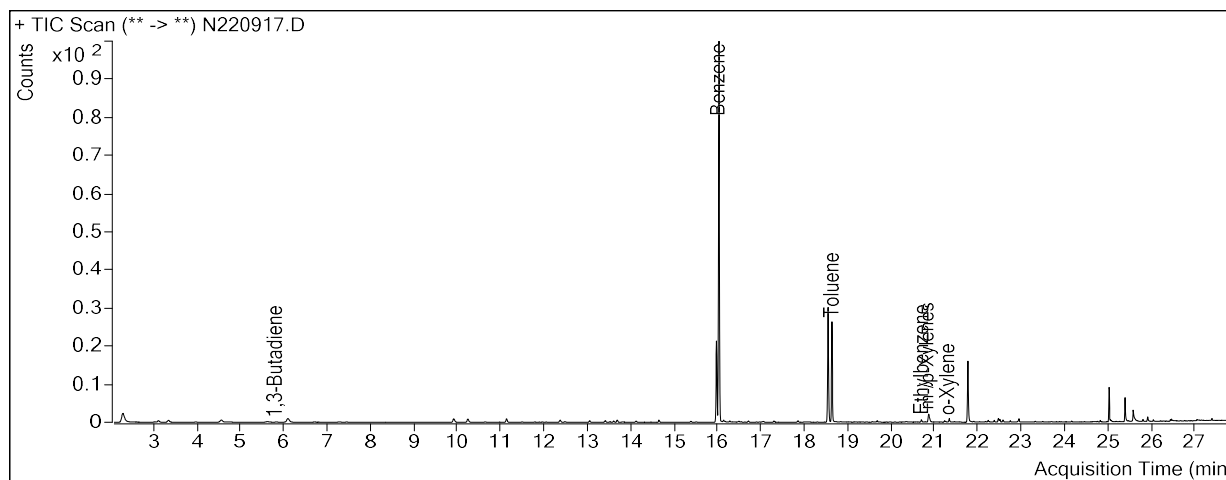


Sample Name : USSCL-PT10-D-20221108
Sample Info : B12139
Data File : N220916.D
Acquisition Date : 2022-11-29 00:00:46
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



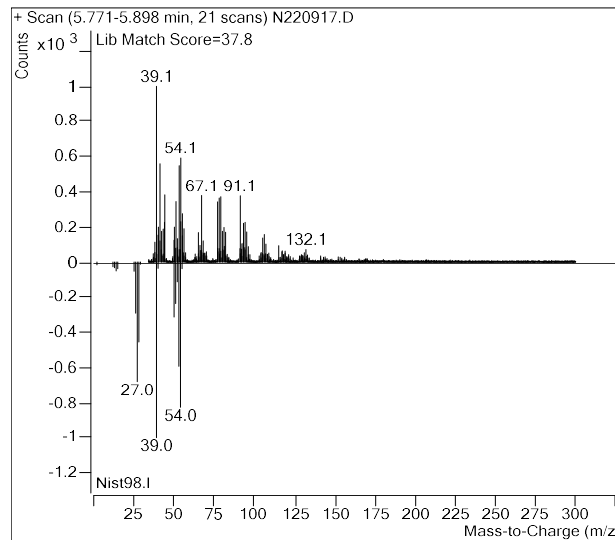
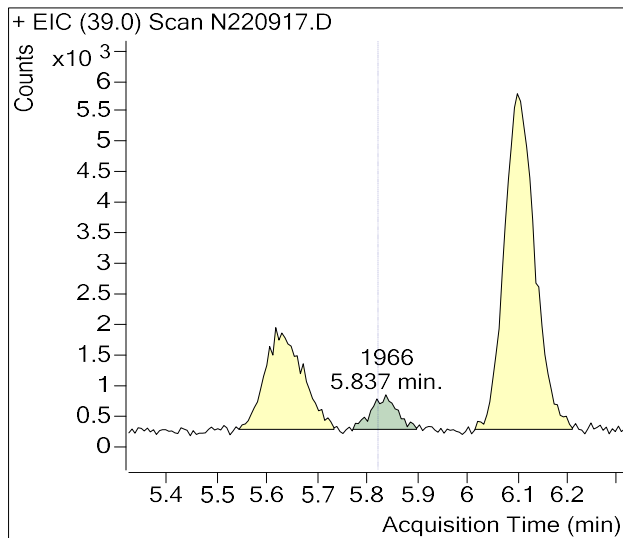
Sample Name : USSCL-PT11-S-20221108
Sample Info : C00707
Data File : N220917.D
Acquisition Date : 2022-11-29 00:40:33
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	1,966	
Benzene-d6 (IS)	15.97	1,365,316	
Benzene	16.03	5,796,370	
Toluene-d8 (IS)	18.55	1,502,753	
Toluene	18.64	1,380,009	
Ethylbenzene	20.70	36,723	
m-/p-Xylenes	20.89	133,695	
o-Xylene	21.32	39,397	

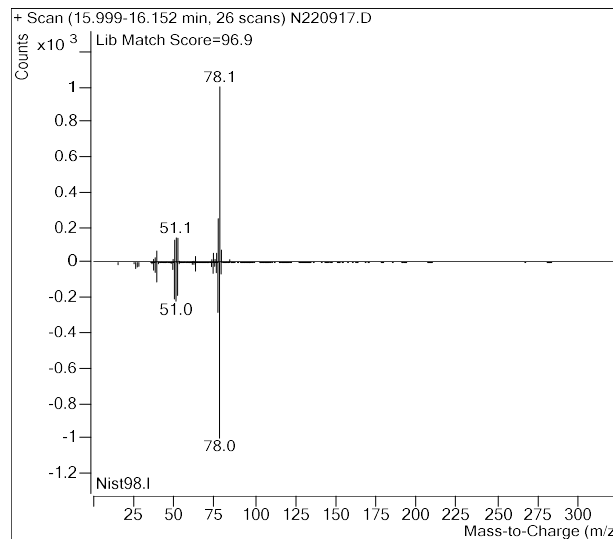
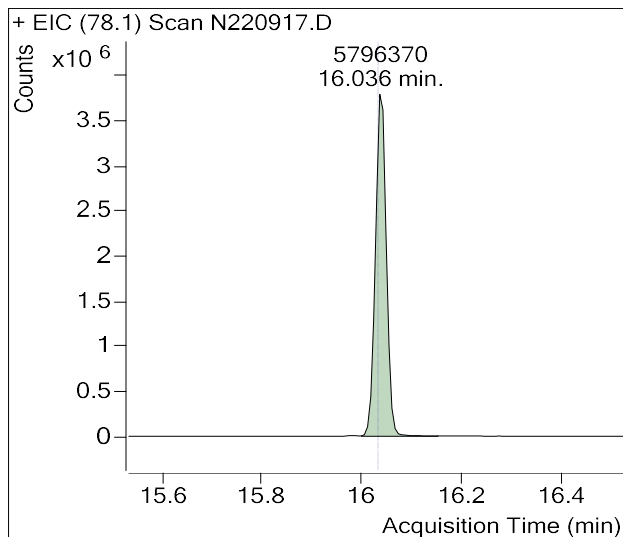
(m)=Manual Integration

1,3-Butadiene

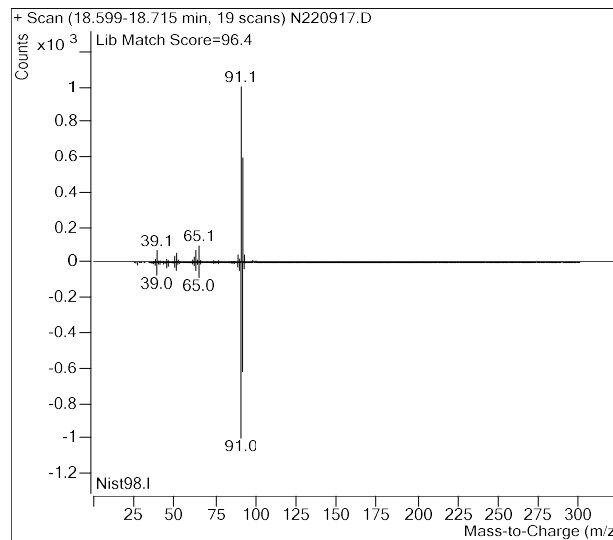
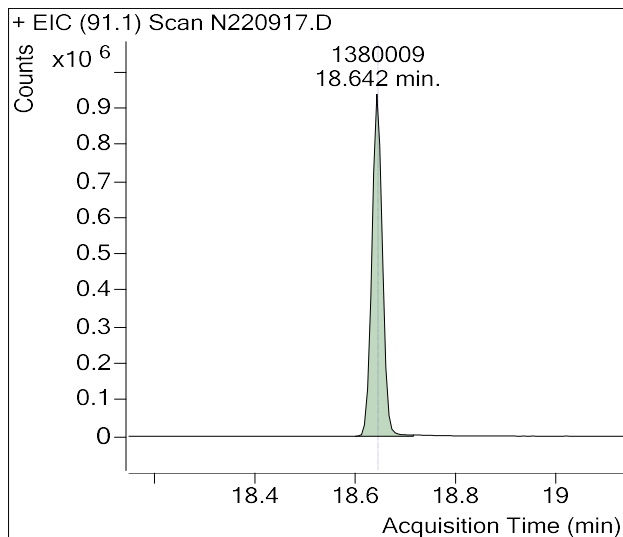


Sample Name : USSCL-PT11-S-20221108
Sample Info : C00707
Data File : N220917.D
Acquisition Date : 2022-11-29 00:40:33
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

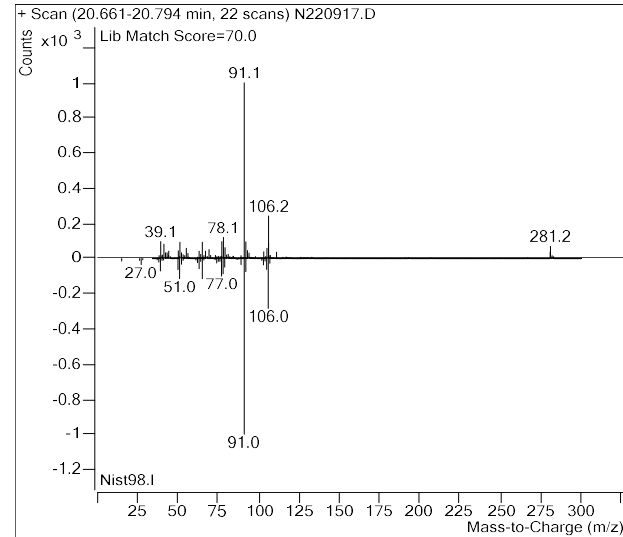
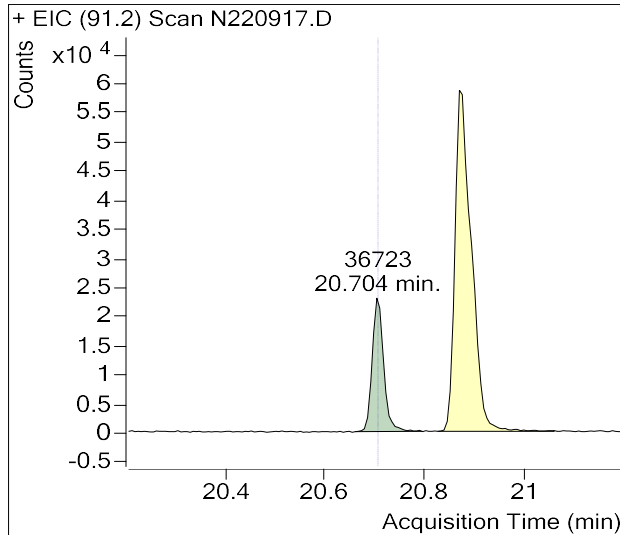


Toluene

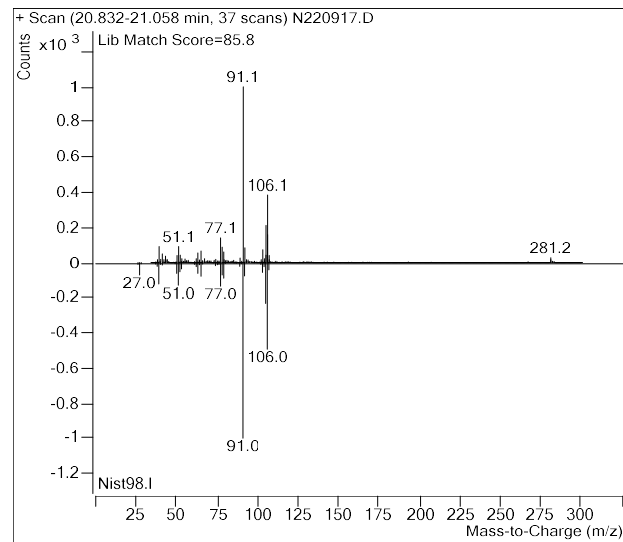
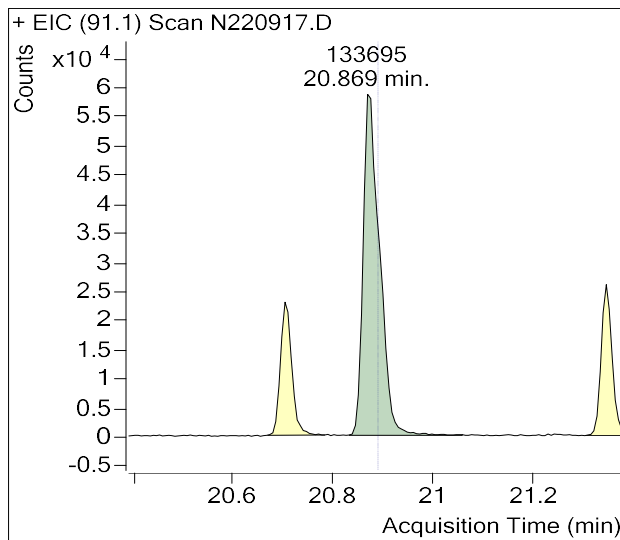


Sample Name : USSCL-PT11-S-20221108
Sample Info : C00707
Data File : N220917.D
Acquisition Date : 2022-11-29 00:40:33
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

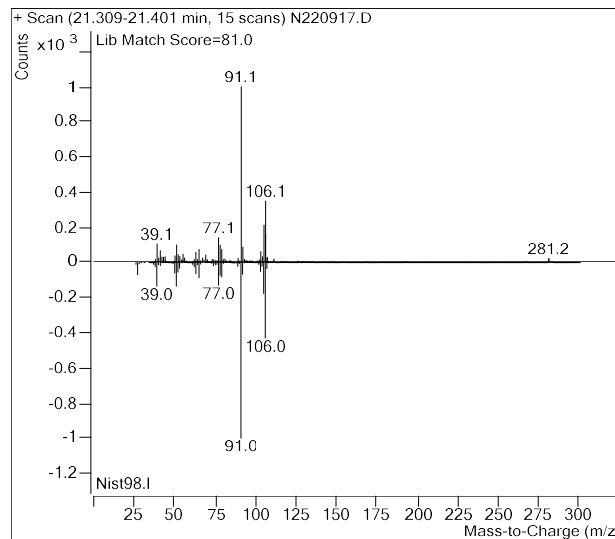
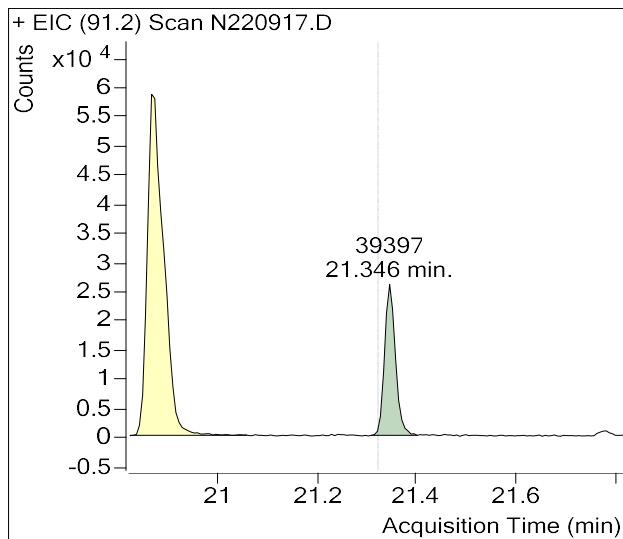


m-/p-Xylenes

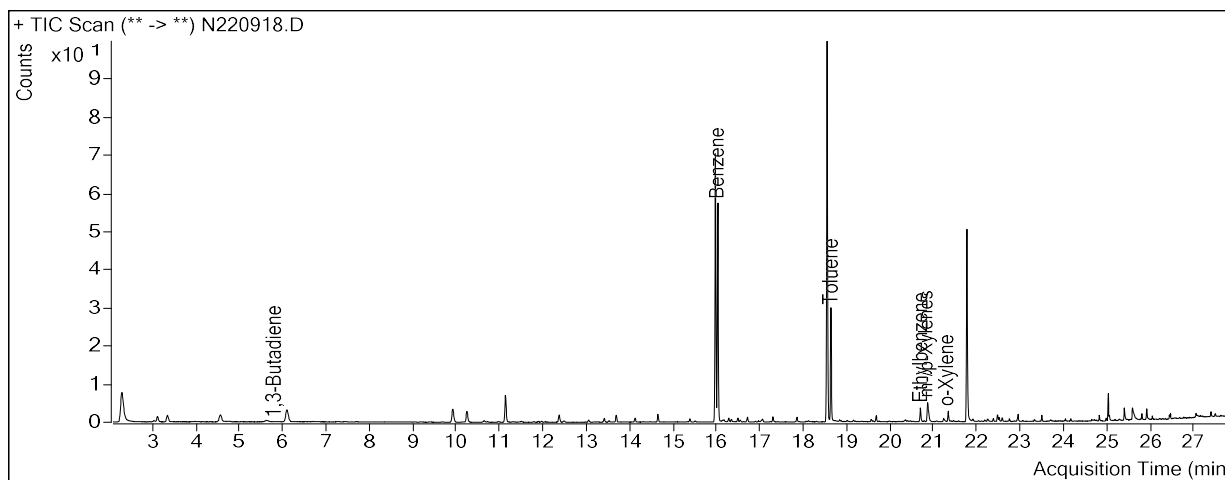


Sample Name : USSCL-PT11-S-20221108
Sample Info : C00707
Data File : N220917.D
Acquisition Date : 2022-11-29 00:40:33
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



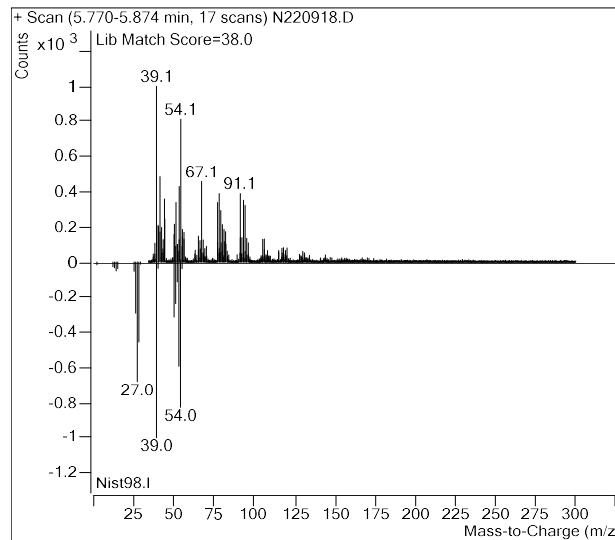
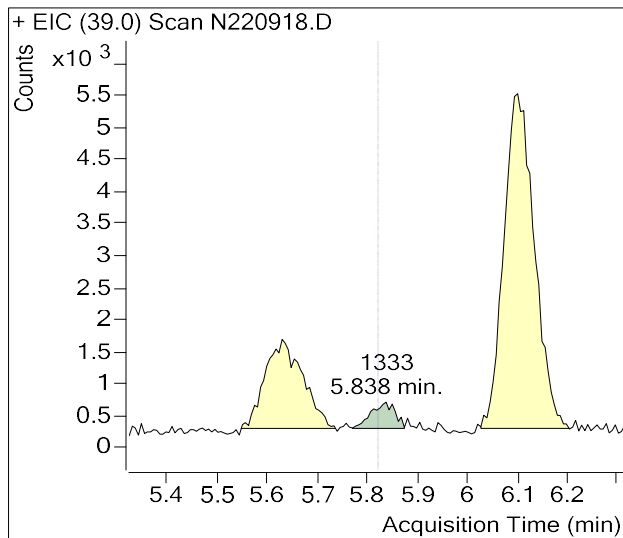
Sample Name : USSCL-PT12-S-20221108
Sample Info : B27212
Data File : N220918.D
Acquisition Date : 2022-11-29 01:20:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



Compound	Retention Time	Response	Flags
1,3-Butadiene	5.82	1,333	
Benzene-d6 (IS)	15.97	1,366,588	
Benzene	16.03	1,035,755	
Toluene-d8 (IS)	18.55	1,487,430	
Toluene	18.64	472,560	
Ethylbenzene	20.70	64,495	
m-/p-Xylenes	20.89	94,753	
o-Xylene	21.32	35,971	

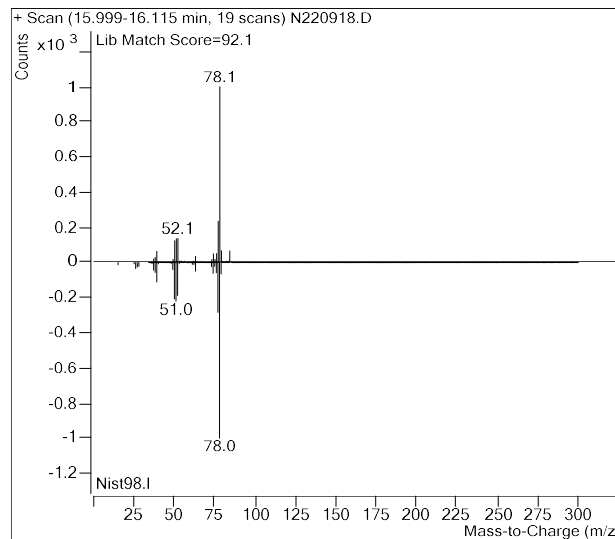
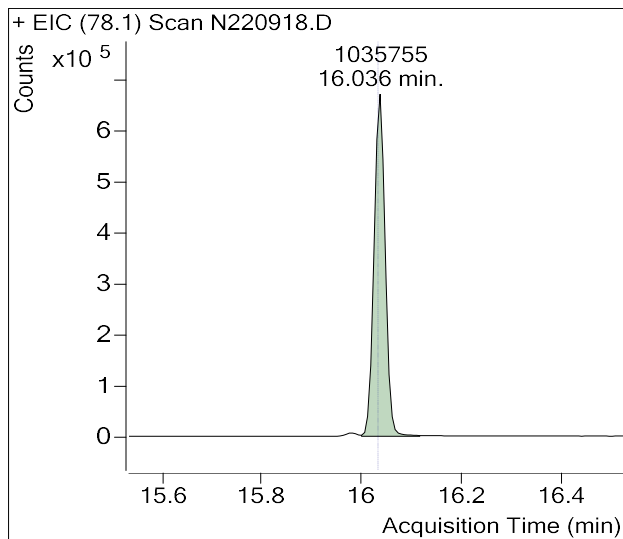
(m)=Manual Integration

1,3-Butadiene

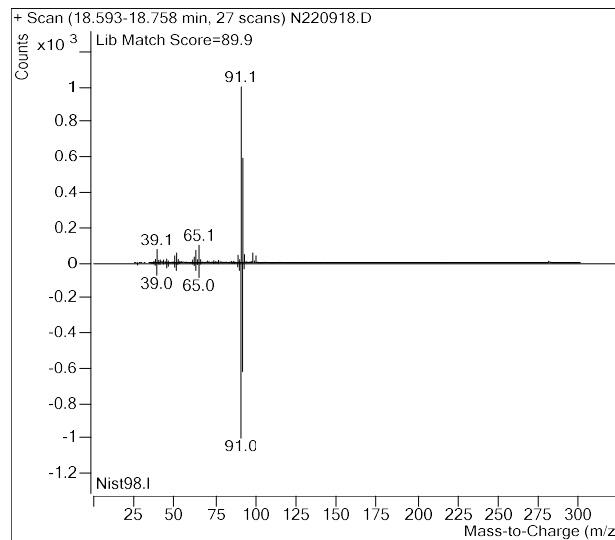
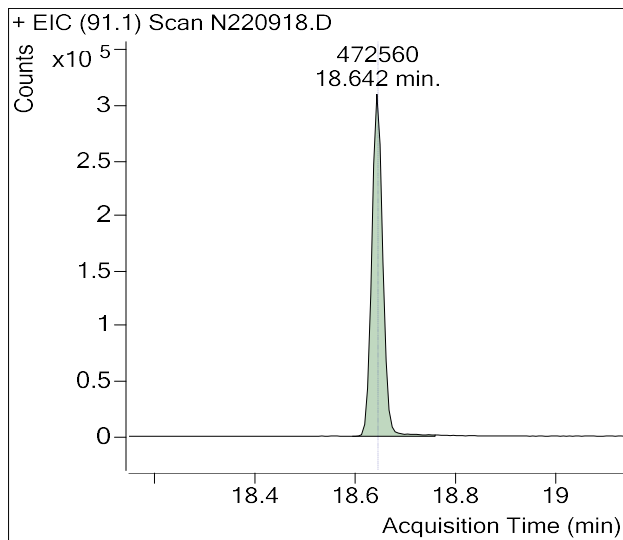


Sample Name : USSCL-PT12-S-20221108
Sample Info : B27212
Data File : N220918.D
Acquisition Date : 2022-11-29 01:20:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

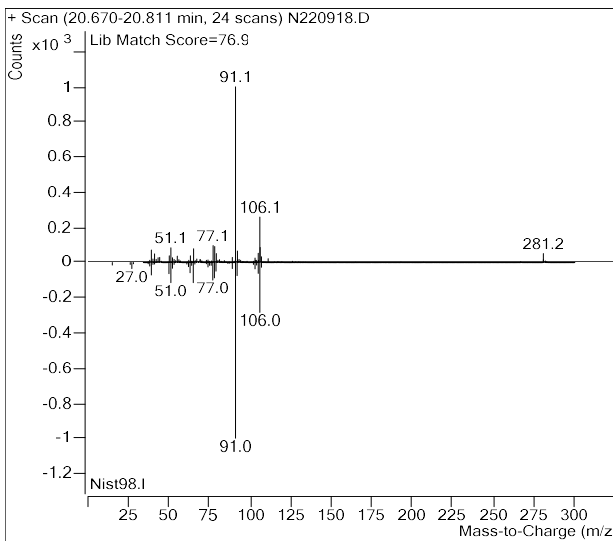
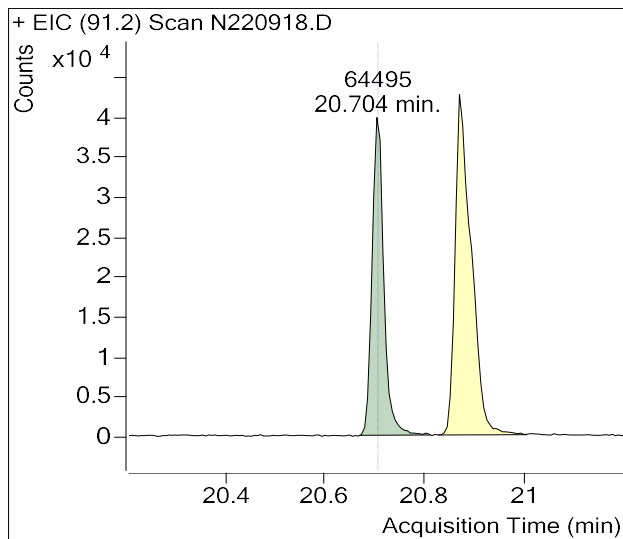


Toluene

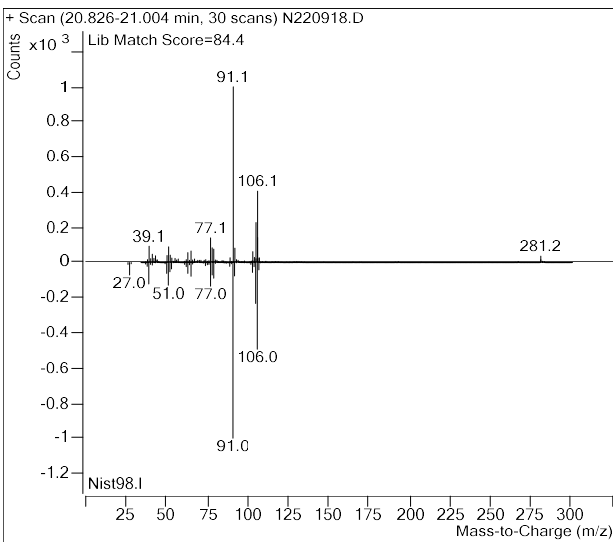
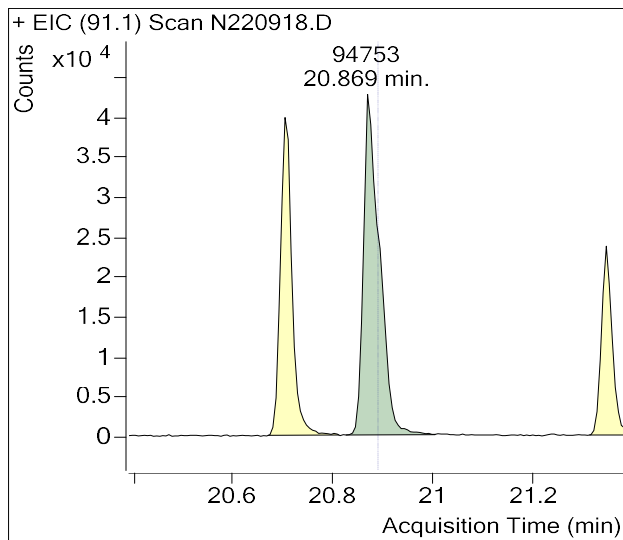


Sample Name : USSCL-PT12-S-20221108
Sample Info : B27212
Data File : N220918.D
Acquisition Date : 2022-11-29 01:20:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

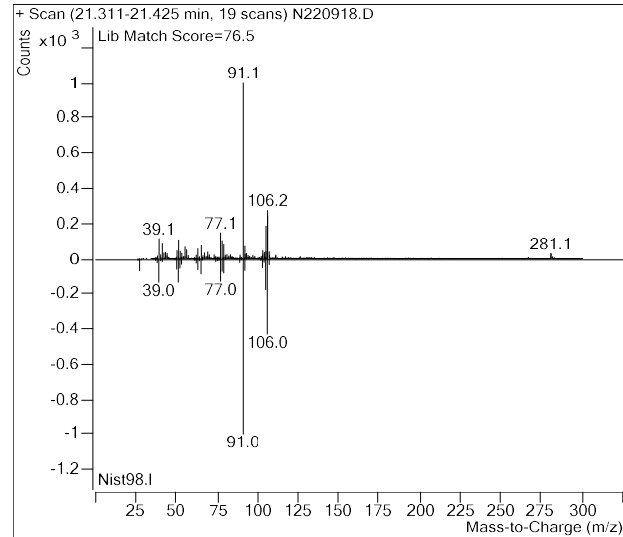
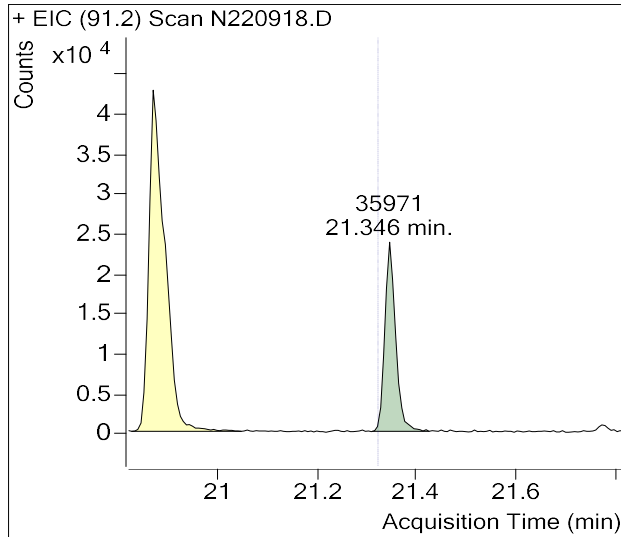


m-/p-Xylenes



Sample Name : USSCL-PT12-S-20221108
Sample Info : B27212
Data File : N220918.D
Acquisition Date : 2022-11-29 01:20:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



Calibration Summary Reports



Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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	0.281	0.256	0.281	9.9%	-19%		Pass	
2022EE103 Method Blank	Blank		0.256	0.281			1.7%	Pass	ND
M325B CCV 5	Check	0.235	0.256	0.281	-8.2%		13%	Pass	
M325B CCV 5	Check	0.246	0.256	0.281	-3.7%		8.8%	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	1.203	1.088	1.203	11%	-19%		Pass	
2022EE103 Method Blank	Blank		1.088	1.203			1.7%	Pass	ND
M325B CCV 5	Check	1.045	1.088	1.203	-3.9%		13%	Pass	
M325B CCV 5	Check	1.084	1.088	1.203	-0.40%		8.8%	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	1.633	1.679	1.633	-2.7%	-25%		Pass	
2022EE103 Method Blank	Blank		1.679	1.633			-1.5%	Pass	ND
M325B CCV 5	Check	1.499	1.679	1.633	-11%		10%	Pass	
M325B CCV 5	Check	1.547	1.679	1.633	-7.8%		7.3%	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	1.123	1.316	1.123	-15%	-25%		Pass	
2022EE103 Method Blank	Blank		1.316	1.123			-1.5%	Pass	ND
M325B CCV 5	Check	1.069	1.316	1.123	-19%		10%	Pass	
M325B CCV 5	Check	1.097	1.316	1.123	-17%		7.3%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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	1.209	1.457	1.209	-17%	-25%		Pass	
2022EE103 Method Blank	Blank		1.457	1.209			-1.5%	Pass	ND
M325B CCV 5	Check	1.158	1.457	1.209	-20%		10%	Pass	
M325B CCV 5	Check	1.188	1.457	1.209	-18%		7.3%	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	1.451	1.383	1.451	4.9%	-25%		Pass	
2022EE103 Method Blank	Blank		1.383	1.451			-1.5%	Pass	ND
M325B CCV 5	Check	1.295	1.383	1.451	-6.3%		10%	Pass	
M325B CCV 5	Check	1.329	1.383	1.451	-3.9%		7.3%	Pass	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	1	N2203392.D	5.31	20988	91.9	1381543	0.263	2.8%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	2	N2203393.D	10.62	41754	91.9	1426696	0.253	-0.98%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	3	N2203394.D	21.24	84005	91.9	1439160	0.253	-1.3%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	4	N2203395.D	42.47	174416	91.9	1694081	0.223	-13%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	5	N2203396.D	106.18	448983	91.9	1485517	0.262	2.3%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	6	N2203397.D	212.37	893774	91.9	1475750	0.262	2.5%
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	7	N2203398.D	637.10	2844892	91.9	1490590	0.275	7.6%
						Avg:	1484762	0.256	
						%RSD:	6.7%	6.4%	
N102122A_BUT_BTEX.quantmethod.xml	Benzene	1	N2203392.D	5.32	85519	91.9	1381543	1.070	-1.6%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	2	N2203393.D	10.64	170813	91.9	1426696	1.035	-4.9%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	3	N2203394.D	21.27	336670	91.9	1439160	1.011	-7.1%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	4	N2203395.D	42.54	810400	91.9	1694081	1.034	-5.0%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	5	N2203396.D	106.36	1798118	91.9	1485517	1.046	-3.8%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	6	N2203397.D	212.71	3925293	91.9	1475750	1.150	5.7%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	7	N2203398.D	638.13	13142539	91.9	1490590	1.270	17%
						Avg:	1484762	1.088	
						%RSD:	6.7%	8.5%	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	1	N2203392.D	5.47	137256	106.9	1643571	1.633	-2.7%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	2	N2203393.D	10.93	309501	106.9	1702131	1.777	5.9%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	3	N2203394.D	21.87	640671	106.9	1721371	1.819	8.4%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	4	N2203395.D	43.73	1591379	106.9	2097737	1.854	10%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	5	N2203396.D	109.33	2783786	106.9	1782933	1.526	-9.1%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	6	N2203397.D	218.65	6103223	106.9	1782250	1.674	-0.29%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	7	N2203398.D	655.96	16269664	106.9	1806234	1.467	-13%
						Avg:	1790890	1.679	
						%RSD:	8.2%	8.8%	
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	1	N2203392.D	5.50	104265	106.9	1643571	1.232	-6.3%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	2	N2203393.D	11.00	237512	106.9	1702131	1.355	3.0%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	3	N2203394.D	22.00	499560	106.9	1721371	1.409	7.1%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	4	N2203395.D	44.01	1180384	106.9	2097737	1.366	3.9%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	5	N2203396.D	110.02	2071161	106.9	1782933	1.128	-14%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	6	N2203397.D	220.03	4510335	106.9	1782250	1.229	-6.6%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	7	N2203398.D	660.10	16598506	106.9	1806234	1.488	13%
						Avg:	1790890	1.316	
						%RSD:	8.2%	9.4%	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	1	N2203392.D	5.53	115891	106.9	1643571	1.362	-6.5%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	2	N2203393.D	11.07	273067	106.9	1702131	1.549	6.3%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	3	N2203394.D	22.13	576300	106.9	1721371	1.617	11%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	4	N2203395.D	44.26	1404641	106.9	2097737	1.617	11%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	5	N2203396.D	110.65	2334527	106.9	1782933	1.265	-13%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	6	N2203397.D	221.30	5316523	106.9	1782250	1.440	-1.1%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	7	N2203398.D	663.91	15133544	106.9	1806234	1.349	-7.4%
						Avg:	1790890	1.457	
						%RSD:	8.2%	9.6%	
N102122A_BUT_BTEX.quantmethod.xml	Toluene	1	N2203392.D	5.52	124081	106.9	1643571	1.461	5.6%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	2	N2203393.D	11.04	244558	106.9	1702131	1.390	0.53%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	3	N2203394.D	22.09	484206	106.9	1721371	1.361	-1.6%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	4	N2203395.D	44.18	1195886	106.9	2097737	1.379	-0.28%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	5	N2203396.D	110.45	2396009	106.9	1782933	1.300	-6.0%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	6	N2203397.D	220.90	5257729	106.9	1782250	1.427	3.2%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	7	N2203398.D	662.69	15253920	106.9	1806234	1.362	-1.5%
						Avg:	1790890	1.383	
						%RSD:	8.2%	3.7%	

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE103-1 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
N102122A_BUT_BTEX.quantmethod.xml	1,3-Butadiene	ICV	N2203399.D	106.17	448455	91.9	1492171	0.260	1.7%
N102122A_BUT_BTEX.quantmethod.xml	Benzene	ICV	N2203399.D	100.86	1685784	91.9	1492171	1.030	-5.3%
N102122A_BUT_BTEX.quantmethod.xml	Ethylbenzene	ICV	N2203399.D	97.53	2278660	106.9	1828746	1.365	-19%
N102122A_BUT_BTEX.quantmethod.xml	m-/p-Xylenes	ICV	N2203399.D	97.70	1699731	106.9	1828746	1.017	-23%
N102122A_BUT_BTEX.quantmethod.xml	o-Xylene	ICV	N2203399.D	98.60	1865276	106.9	1828746	1.106	-24%
N102122A_BUT_BTEX.quantmethod.xml	Toluene	ICV	N2203399.D	100.73	2108360	106.9	1828746	1.223	-12%

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