

All4, Inc.

2393 Kimberton Road
Kimberton, PA 19442

Coke Oven ICR Sampling Event #05

US Steel Corp - Clairton Works ICR

Project: 00701-0002.00

Analytical Report (2022EE105)

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: 01/11/2023



Summary of Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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/m³) | Flag | Benzene (ug/m³) | Flag | Ethylbenzene (ug/m³) | Flag | m-/p-Xylenes (ug/m³) | Flag | o-Xylene (ug/m³) | Flag | Toluene (ug/m³) | Flag |
|-----------------------|---------|--------------------------|------|--------------------|------|-------------------------|------|-------------------------|------|---------------------|------|--------------------|------|
| USSCL-PT01-S-20221206 | B35483 | | ND | 4.56 | | | ND | | ND | | ND | 1.63 | P |
| USSCL-PT02-S-20221206 | B45075 | | ND | 3.78 | | | ND | | ND | | ND | 1.34 | P |
| USSCL-PT03-S-20221206 | C00721 | | ND | 13.1 | | | ND | | ND | | ND | 1.93 | P |
| USSCL-PT04-S-20221206 | B12080 | | ND | 22.8 | | | ND | 1.08 | | | ND | 18.8 | P |
| USSCL-PT05-S-20221206 | C17157 | | ND | 6.28 | | | ND | | ND | | ND | 7.45 | P |
| USSCL-PT06-S-20221206 | C20490 | | ND | 9.93 | | | ND | 0.771 | | | ND | 15.0 | P |
| USSCL-PT07-S-20221206 | C20505 | | ND | 1.37 | | | ND | | ND | | ND | 3.27 | P |
| USSCL-PT08-S-20221206 | B50926 | | ND | 1.84 | | | ND | | ND | | ND | 3.50 | P |
| USSCL-PT09-S-20221206 | B46775 | | ND | 5.90 | | | ND | | ND | | ND | 4.31 | P |
| USSCL-PT10-S-20221206 | C16112 | | ND | 28.5 | | | ND | 1.02 | | | ND | 6.94 | P |
| USSCL-PT10-D-20221206 | B18509 | | ND | 30.6 | | | ND | 1.10 | | | ND | 16.5 | P |
| USSCL-PT10-B-20221206 | B19710 | | ND | | ND | | ND | | ND | | ND | | ND,P |
| USSCL-PT11-S-20221206 | B37655 | | ND | 12.8 | | | ND | 0.739 | | | ND | 11.9 | P |
| USSCL-PT12-S-20221206 | B20191 | | ND | 4.91 | | | ND | | ND | | ND | 2.46 | P |

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

P: Field duplicate(s) exceed 30%RPD

Results

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | | | | 44.0 | 0.436 | 18,721 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT02-S-20221206 | B45075 | | | | 44.0 | 0.436 | 18,716 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT03-S-20221206 | C00721 | | | | 44.0 | 0.436 | 18,713 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT04-S-20221206 | B12080 | | | | 44.0 | 0.436 | 18,709 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT05-S-20221206 | C17157 | | | | 44.0 | 0.436 | 18,706 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT06-S-20221206 | C20490 | | | | 44.0 | 0.436 | 18,709 | 0.651 | 0.651 | 0.294 | 0.294 | ND |
| USSCL-PT07-S-20221206 | C20505 | | | | 44.0 | 0.436 | 18,692 | 0.652 | 0.652 | 0.295 | 0.295 | ND |
| USSCL-PT08-S-20221206 | B50926 | | | | 44.0 | 0.436 | 18,665 | 0.652 | 0.652 | 0.295 | 0.295 | ND |
| USSCL-PT09-S-20221206 | B46775 | | | | 44.0 | 0.436 | 18,682 | 0.652 | 0.652 | 0.295 | 0.295 | ND |
| USSCL-PT10-S-20221206 | C16112 | | | | 44.0 | 0.436 | 18,652 | 0.653 | 0.653 | 0.295 | 0.295 | ND |
| USSCL-PT10-D-20221206 | B18509 | | | | 44.0 | 0.436 | 18,652 | 0.653 | 0.653 | 0.295 | 0.295 | ND |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.436 | 18,651 | 0.653 | 0.653 | 0.295 | 0.295 | ND |
| USSCL-PT11-S-20221206 | B37655 | | | | 44.0 | 0.436 | 18,651 | 0.653 | 0.653 | 0.295 | 0.295 | ND |
| USSCL-PT12-S-20221206 | B20191 | | | | 44.0 | 0.436 | 18,649 | 0.653 | 0.653 | 0.295 | 0.295 | ND |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | 4.56 | 1.43 | 55.4 | 44.0 | 0.649 | 18,721 | 0.206 | 0.438 | 0.0644 | 0.137 | |
| USSCL-PT02-S-20221206 | B45075 | 3.78 | 1.18 | 45.9 | 44.0 | 0.649 | 18,716 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT03-S-20221206 | C00721 | 13.1 | 4.12 | 160 | 44.0 | 0.649 | 18,713 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT04-S-20221206 | B12080 | 22.8 | 7.15 | 277 | 44.0 | 0.649 | 18,709 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT05-S-20221206 | C17157 | 6.28 | 1.97 | 76.2 | 44.0 | 0.649 | 18,706 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT06-S-20221206 | C20490 | 9.93 | 3.11 | 121 | 44.0 | 0.649 | 18,709 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT07-S-20221206 | C20505 | 1.37 | 0.429 | 16.6 | 44.0 | 0.649 | 18,692 | 0.206 | 0.438 | 0.0645 | 0.137 | |
| USSCL-PT08-S-20221206 | B50926 | 1.84 | 0.575 | 22.2 | 44.0 | 0.649 | 18,665 | 0.206 | 0.439 | 0.0646 | 0.137 | |
| USSCL-PT09-S-20221206 | B46775 | 5.90 | 1.85 | 71.6 | 44.0 | 0.649 | 18,682 | 0.206 | 0.439 | 0.0646 | 0.137 | |
| USSCL-PT10-S-20221206 | C16112 | 28.5 | 8.92 | 345 | 44.0 | 0.649 | 18,652 | 0.206 | 0.439 | 0.0647 | 0.138 | |
| USSCL-PT10-D-20221206 | B18509 | 30.6 | 9.60 | 371 | 44.0 | 0.649 | 18,652 | 0.206 | 0.439 | 0.0647 | 0.138 | |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.649 | 18,651 | 0.207 | 0.439 | 0.0647 | 0.138 | ND |
| USSCL-PT11-S-20221206 | B37655 | 12.8 | 4.00 | 155 | 44.0 | 0.649 | 18,651 | 0.207 | 0.439 | 0.0647 | 0.138 | |
| USSCL-PT12-S-20221206 | B20191 | 4.91 | 1.54 | 59.5 | 44.0 | 0.649 | 18,649 | 0.207 | 0.439 | 0.0647 | 0.138 | |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | | | | 44.0 | 0.446 | 18,721 | 0.655 | 0.655 | 0.151 | 0.151 | ND |
| USSCL-PT02-S-20221206 | B45075 | | | | 44.0 | 0.446 | 18,716 | 0.655 | 0.655 | 0.151 | 0.151 | ND |
| USSCL-PT03-S-20221206 | C00721 | | | | 44.0 | 0.446 | 18,713 | 0.655 | 0.655 | 0.151 | 0.151 | ND |
| USSCL-PT04-S-20221206 | B12080 | | | | 44.0 | 0.446 | 18,709 | 0.656 | 0.656 | 0.151 | 0.151 | ND |
| USSCL-PT05-S-20221206 | C17157 | | | | 44.0 | 0.446 | 18,706 | 0.656 | 0.656 | 0.151 | 0.151 | ND |
| USSCL-PT06-S-20221206 | C20490 | | | | 44.0 | 0.446 | 18,709 | 0.656 | 0.656 | 0.151 | 0.151 | ND |
| USSCL-PT07-S-20221206 | C20505 | | | | 44.0 | 0.446 | 18,692 | 0.656 | 0.656 | 0.151 | 0.151 | ND |
| USSCL-PT08-S-20221206 | B50926 | | | | 44.0 | 0.446 | 18,665 | 0.657 | 0.657 | 0.151 | 0.151 | ND |
| USSCL-PT09-S-20221206 | B46775 | | | | 44.0 | 0.446 | 18,682 | 0.657 | 0.657 | 0.151 | 0.151 | ND |
| USSCL-PT10-S-20221206 | C16112 | | | | 44.0 | 0.446 | 18,652 | 0.658 | 0.658 | 0.152 | 0.152 | ND |
| USSCL-PT10-D-20221206 | B18509 | | | | 44.0 | 0.446 | 18,652 | 0.658 | 0.658 | 0.152 | 0.152 | ND |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.446 | 18,651 | 0.658 | 0.658 | 0.152 | 0.152 | ND |
| USSCL-PT11-S-20221206 | B37655 | | | | 44.0 | 0.446 | 18,651 | 0.658 | 0.658 | 0.152 | 0.152 | ND |
| USSCL-PT12-S-20221206 | B20191 | | | | 44.0 | 0.446 | 18,649 | 0.658 | 0.658 | 0.152 | 0.152 | ND |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | | | | 44.0 | 0.446 | 18,721 | 0.659 | 0.659 | 0.152 | 0.152 | ND |
| USSCL-PT02-S-20221206 | B45075 | | | | 44.0 | 0.446 | 18,716 | 0.660 | 0.660 | 0.152 | 0.152 | ND |
| USSCL-PT03-S-20221206 | C00721 | | | | 44.0 | 0.446 | 18,713 | 0.660 | 0.660 | 0.152 | 0.152 | ND |
| USSCL-PT04-S-20221206 | B12080 | 1.08 | 0.249 | 9.01 | 44.0 | 0.446 | 18,709 | 0.660 | 0.660 | 0.152 | 0.152 | |
| USSCL-PT05-S-20221206 | C17157 | | | | 44.0 | 0.446 | 18,706 | 0.660 | 0.660 | 0.152 | 0.152 | ND |
| USSCL-PT06-S-20221206 | C20490 | 0.771 | 0.178 | 6.43 | 44.0 | 0.446 | 18,709 | 0.660 | 0.660 | 0.152 | 0.152 | |
| USSCL-PT07-S-20221206 | C20505 | | | | 44.0 | 0.446 | 18,692 | 0.660 | 0.660 | 0.152 | 0.152 | ND |
| USSCL-PT08-S-20221206 | B50926 | | | | 44.0 | 0.446 | 18,665 | 0.661 | 0.661 | 0.152 | 0.152 | ND |
| USSCL-PT09-S-20221206 | B46775 | | | | 44.0 | 0.446 | 18,682 | 0.661 | 0.661 | 0.152 | 0.152 | ND |
| USSCL-PT10-S-20221206 | C16112 | 1.02 | 0.234 | 8.44 | 44.0 | 0.446 | 18,652 | 0.662 | 0.662 | 0.153 | 0.153 | |
| USSCL-PT10-D-20221206 | B18509 | 1.10 | 0.253 | 9.11 | 44.0 | 0.446 | 18,652 | 0.662 | 0.662 | 0.153 | 0.153 | |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.446 | 18,651 | 0.662 | 0.662 | 0.153 | 0.153 | ND |
| USSCL-PT11-S-20221206 | B37655 | 0.739 | 0.170 | 6.15 | 44.0 | 0.446 | 18,651 | 0.662 | 0.662 | 0.153 | 0.153 | |
| USSCL-PT12-S-20221206 | B20191 | | | | 44.0 | 0.446 | 18,649 | 0.662 | 0.662 | 0.153 | 0.153 | ND |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | | | | 44.0 | 0.446 | 18,721 | 0.663 | 0.663 | 0.153 | 0.153 | ND |
| USSCL-PT02-S-20221206 | B45075 | | | | 44.0 | 0.446 | 18,716 | 0.663 | 0.663 | 0.153 | 0.153 | ND |
| USSCL-PT03-S-20221206 | C00721 | | | | 44.0 | 0.446 | 18,713 | 0.663 | 0.663 | 0.153 | 0.153 | ND |
| USSCL-PT04-S-20221206 | B12080 | | | | 44.0 | 0.446 | 18,709 | 0.664 | 0.664 | 0.153 | 0.153 | ND |
| USSCL-PT05-S-20221206 | C17157 | | | | 44.0 | 0.446 | 18,706 | 0.664 | 0.664 | 0.153 | 0.153 | ND |
| USSCL-PT06-S-20221206 | C20490 | | | | 44.0 | 0.446 | 18,709 | 0.664 | 0.664 | 0.153 | 0.153 | ND |
| USSCL-PT07-S-20221206 | C20505 | | | | 44.0 | 0.446 | 18,692 | 0.664 | 0.664 | 0.153 | 0.153 | ND |
| USSCL-PT08-S-20221206 | B50926 | | | | 44.0 | 0.446 | 18,665 | 0.665 | 0.665 | 0.153 | 0.153 | ND |
| USSCL-PT09-S-20221206 | B46775 | | | | 44.0 | 0.446 | 18,682 | 0.665 | 0.665 | 0.153 | 0.153 | ND |
| USSCL-PT10-S-20221206 | C16112 | | | | 44.0 | 0.446 | 18,652 | 0.666 | 0.666 | 0.153 | 0.153 | ND |
| USSCL-PT10-D-20221206 | B18509 | | | | 44.0 | 0.446 | 18,652 | 0.666 | 0.666 | 0.153 | 0.153 | ND |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.446 | 18,651 | 0.666 | 0.666 | 0.153 | 0.153 | ND |
| USSCL-PT11-S-20221206 | B37655 | | | | 44.0 | 0.446 | 18,651 | 0.666 | 0.666 | 0.153 | 0.153 | ND |
| USSCL-PT12-S-20221206 | B20191 | | | | 44.0 | 0.446 | 18,649 | 0.666 | 0.666 | 0.153 | 0.153 | ND |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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-20221206 | B35483 | 1.63 | 0.434 | 15.4 | 44.0 | 0.504 | 18,721 | 0.265 | 0.586 | 0.0704 | 0.155 | P |
| USSCL-PT02-S-20221206 | B45075 | 1.34 | 0.355 | 12.6 | 44.0 | 0.504 | 18,716 | 0.265 | 0.586 | 0.0704 | 0.156 | P |
| USSCL-PT03-S-20221206 | C00721 | 1.93 | 0.512 | 18.2 | 44.0 | 0.504 | 18,713 | 0.265 | 0.586 | 0.0704 | 0.156 | P |
| USSCL-PT04-S-20221206 | B12080 | 18.8 | 4.98 | 177 | 44.0 | 0.504 | 18,709 | 0.265 | 0.586 | 0.0704 | 0.156 | P |
| USSCL-PT05-S-20221206 | C17157 | 7.45 | 1.98 | 70.2 | 44.0 | 0.504 | 18,706 | 0.265 | 0.586 | 0.0704 | 0.156 | P |
| USSCL-PT06-S-20221206 | C20490 | 15.0 | 3.98 | 141 | 44.0 | 0.504 | 18,709 | 0.265 | 0.586 | 0.0704 | 0.156 | P |
| USSCL-PT07-S-20221206 | C20505 | 3.27 | 0.867 | 30.7 | 44.0 | 0.504 | 18,692 | 0.265 | 0.586 | 0.0705 | 0.156 | P |
| USSCL-PT08-S-20221206 | B50926 | 3.50 | 0.929 | 32.9 | 44.0 | 0.504 | 18,665 | 0.266 | 0.587 | 0.0706 | 0.156 | P |
| USSCL-PT09-S-20221206 | B46775 | 4.31 | 1.14 | 40.5 | 44.0 | 0.504 | 18,682 | 0.266 | 0.587 | 0.0705 | 0.156 | P |
| USSCL-PT10-S-20221206 | C16112 | 6.94 | 1.84 | 65.2 | 44.0 | 0.504 | 18,652 | 0.266 | 0.588 | 0.0706 | 0.156 | P |
| USSCL-PT10-D-20221206 | B18509 | 16.5 | 4.39 | 155 | 44.0 | 0.504 | 18,652 | 0.266 | 0.588 | 0.0706 | 0.156 | P |
| USSCL-PT10-B-20221206 | B19710 | | | | 44.0 | 0.504 | 18,651 | 0.266 | 0.588 | 0.0707 | 0.156 | ND,P |
| USSCL-PT11-S-20221206 | B37655 | 11.9 | 3.17 | 112 | 44.0 | 0.504 | 18,651 | 0.266 | 0.588 | 0.0707 | 0.156 | P |
| USSCL-PT12-S-20221206 | B20191 | 2.46 | 0.654 | 23.1 | 44.0 | 0.504 | 18,649 | 0.266 | 0.588 | 0.0707 | 0.156 | P |

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

P: Field duplicate(s) exceed 30%RPD

QC

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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/m ³) | USSCL-PT10-B-20221206 | ND | Pass | ND | Pass | ND | Pass | ND | Pass | ND | Pass | ND | Pass |
| Duplicates (difference) | USSCL-PT10-D-20221206 | | Pass | 7.3% | Pass | | Pass | 7.6% | Pass | | Pass | 82% | Fail |

Narrative Summary

Enthalpy Analytical Narrative Summary

| | |
|-----------------|------------------------------------|
| Company | All4, Inc. |
| Site | US Steel Corp - Clairton Works ICR |
| Project | 00701-0002.00 |
| Report # | 2022EE105 |

| | |
|-----------------------------------|--|
| Custody | <p>Wilson Matthews of Enthalpy Analytical, LLC received the thermal desorption sample tubes on 12/20/2022. The tubes were received in good condition at a temperature of 15.3 °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 | <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 daily BFB check failed to meet method criteria for the relative response of m/z 96 and 174. The use of hydrogen as a carrier gas is known to cause protonation of the m/z 95 BFB production ion, which can result in an elevated m/z 96 ion response and is not expected to have an effect on the data. Due to m/z 174 not being near the tuning regions of the quant ions for any of the analytes of interest and the continuing calibration checks met the 30% difference criteria, the deviation is not expected to have an effect on the data. All other 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> |



Enthalpy Analytical Narrative Summary (continued)

QC Notes

All internal standard response and retention time criteria were met for these analyses.

The field blank and the lab (method) blank met the requirements of the method.

The primary sample USSCL-PT10-S-20221206 (tube C16112) and its corresponding duplicate USSCL-PT10-D-20221206 (tube B18509) failed to meet the 30% difference criterion for toluene as outlined in EPA Method 325B. The lab could not determine a cause for the difference. The toluene results for all samples in the data set have been flagged "P" to denote this failure. The collocated pairs met the 30% difference criterion for all other target compounds.

EPA Method 325B states that a CCV is to be run after every tenth sample. Eleven samples were inadvertently injected between two CCVs. This oversight, while a deviation from Method QC criteria, has no impact on data quality.

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.

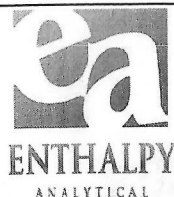
All samples were reported as amount in ng catch, and concentration in $\mu\text{g}/\text{m}^3$ and ppbv.

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.

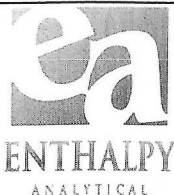
• Unless otherwise specified, sample tubes will be conditioned for re-use 3 business days after submission of results

| | | | | |
|---------------|--------------------------------|------------------|--------------------|----------------|
| Site Name: | US Steel Corp - Clairton Works | Client Name: | ALL 4 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) |
|---------------|--------------------------|-------------------------------|------------|------------|-----------|-----------|---------------------------|-------------------------|-------------------------------|
| PT01-22/206-S | B35483 | S | 22/12/06 | 8:10 AM | 22/12/19 | 8:11 AM | EM / SRQ | | |
| PT02-22/206-S | B45075 | S | 22/12/06 | 8:20 AM | 22/12/19 | 8:16 AM | EM / SRQ | | |
| PT03-22/206-S | C00721 | S | 22/12/06 | 8:28 AM | 22/12/19 | 8:21 AM | EM / SRQ | | |
| PT04-22/206-S | B12080 | S | 22/12/06 | 8:35 AM | 22/12/19 | 8:24 AM | EM / SRQ | | |
| PT05-22/206-S | C17157 | S | 22/12/06 | 8:45 AM | 22/12/19 | 8:31 AM | EM / SRQ | | |
| PT06-22/206-S | C20490 | S | 22/12/06 | 8:53 AM | 22/12/19 | 8:42 AM | EM / SRQ | | |
| PT07-22/206-S | C20505 | S | 22/12/06 | 9:06 AM | 22/12/19 | 8:38 AM | EM / SRQ | | |
| PT08-22/206-S | B14000 B50926 | S | 22/12/06 | 9:45 AM | 22/12/19 | 8:50 AM | EM / SRQ | | |

| | | | |
|--------------------------------|------------------------------|---------------------------|---------------------|
| Relinquished By (printed): | Relinquished By (signature): | Relinquished Date: | Relinquished Time: |
| Stacy Arner | | 22/12/19 | 11:45 AM |
| Received By (printed): | Received By (signature): | Receipt Date: | Receipt Time: |
| William Matthews | | 12/20/22 | 10:00 |
| Sample Condition Upon Receipt: | Compound List: | Custody Seal intact? Y/N: | Delivery tracking # |
| Good | | Y | |
| Ice Temp: | Blank Temp: | Add Custody Seal # below: | |
| 5.4 | 15.3 | 21V09547 | |

Comments:



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

Page ~~1~~ # 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: <u>US Steel Corp - Clairton Works</u> | Client Name: <u>ALL 4 LLC</u> | PO#: |
| Site Address: <u>400 State Street</u> | Project Number: <u>007A1-0002.00</u> | Sample Event # |
| City: <u>Clairton</u> | Project Manager: <u>Dustin Share</u> | Sorbent: |
| State: <u>PA</u> | Email Address: <u>dshare@9114inc.com</u> | |
| Zip: <u>15025</u> | Telephone #: <u>(610) 422-1126</u> | |

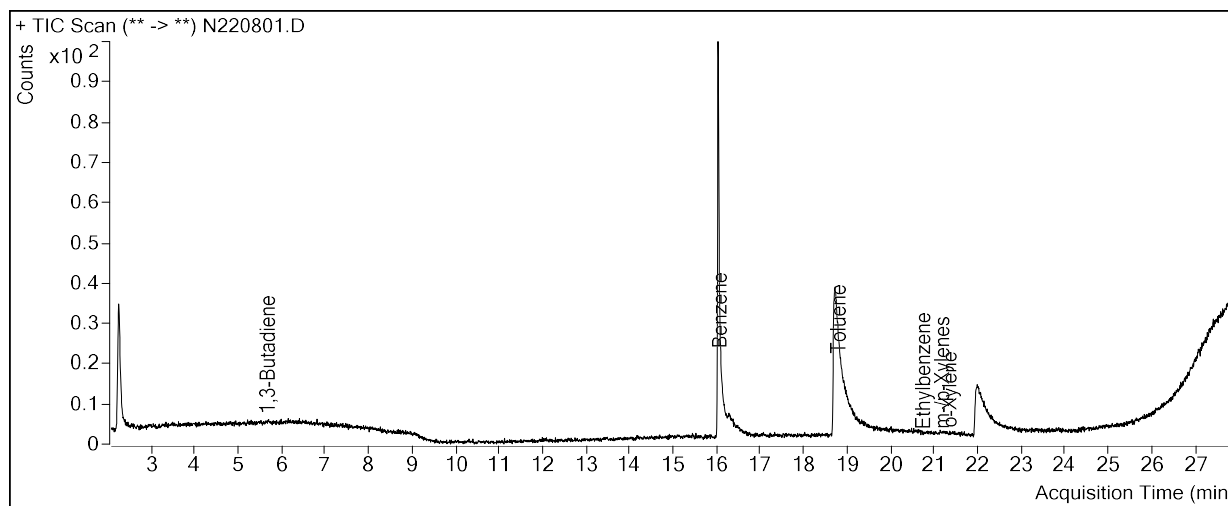
| Location | Sample ID (Tube ID) | Sample, Blank or Duplicate | Start Date | Start Time | Stop Date | Stop Time | Deployed/Collected by | Ave. Pressure (inHg) | Avg. Ambient Temp. (°F) |
|---------------|---------------------|----------------------------|------------|------------|-----------|-----------|-----------------------|----------------------|-------------------------|
| PT09-22/206-S | B46775 | S | 22/12/06 | 9:32 AM | 22/12/19 | 8:54 AM | EM/SRQ | | |
| PT10-22/206-S | C16112 | S | 22/12/06 | 10:08 AM | 22/12/19 | 9:00 AM | EM/SRQ | | |
| PT10-22/206-D | B18509 | D | 22/12/06 | 10:08 AM | 22/12/19 | 9:00 AM | EM/SRQ | | |
| PT10-22/206-D | B19710 | FB | 22/12/06 | 10:08 AM | 22/12/19 | 8:59 AM | EM/SRQ | | |
| PT11-22/206-S | B37655 | S | 22/12/06 | 10:16 AM | 22/12/19 | 9:07 AM | EM/SRQ | | |
| PT12-22/206-S | B20191 | S | 22/12/06 | 10:22 AM | 22/12/19 | 9:11 AM | EM/SRQ | | |
| | | | | | | | / | | |
| | | | | | | | / | | |

| | | | | | | | |
|---|-------------------------|---|--|---|--|------------------------------------|--|
| Relinquished By (printed): <u>Stacy Arner</u> | | Relinquished By (signature): <u>[Signature]</u> | | Relinquished Date: <u>22/12/19</u> | | Relinquished Time: <u>11:45 AM</u> | |
| Received By (printed): <u>Wilson Matthews</u> | | Received By (signature): <u>[Signature]</u> | | Receipt Date: <u>12/20/22</u> | | Receipt Time: <u>10:00</u> | |
| Sample Condition Upon Receipt: <u>Good</u> | | Compound List: | | Custody Seal intact? Y/N: <u>Y</u> | | Delivery tracking # | |
| Ice Temp: <u>5.4</u> | Blank Temp: <u>15.3</u> | <u>Flnk03</u> | | Add Custody Seal # below: <u>21V09547</u> | | | |

Comments:

Sample Chromatograms

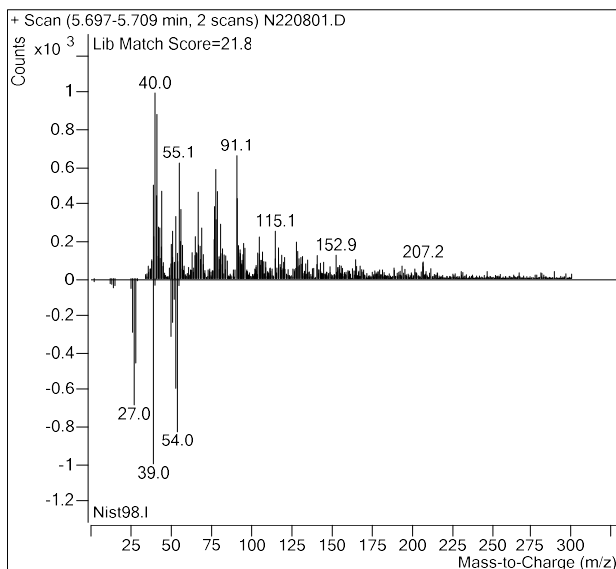
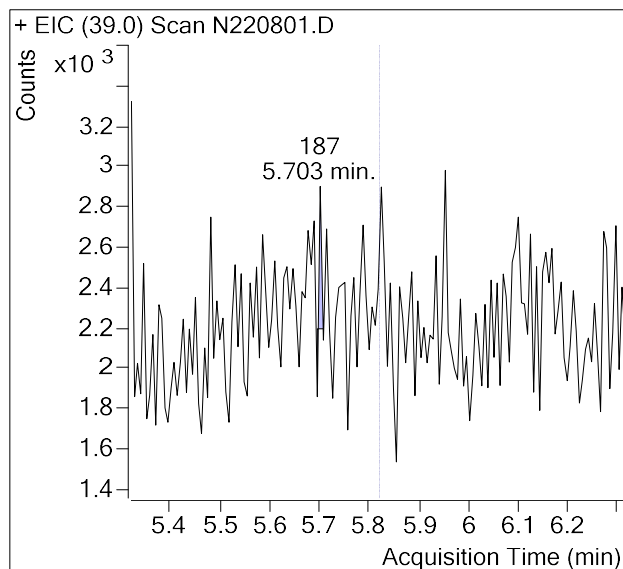
Sample Name : 2022EE105 Method Blank
Sample Info : B47919
Data File : N220801.D
Acquisition Date : 2023-01-04 15:45:28
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 187 | |
| Benzene-d6 (IS) | 15.97 | 1,338,193 | |
| Benzene | 16.03 | 10,230 | m |
| Toluene-d8 (IS) | 18.55 | 1,254,107 | |
| Toluene | 18.64 | 9,602 | |
| Ethylbenzene | 20.70 | 438 | |
| m-/p-Xylenes | 20.89 | 1,197 | |
| o-Xylene | 21.32 | 908 | |

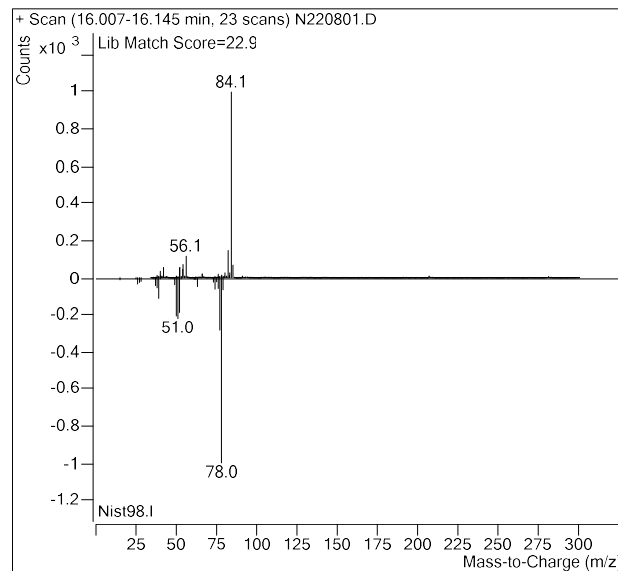
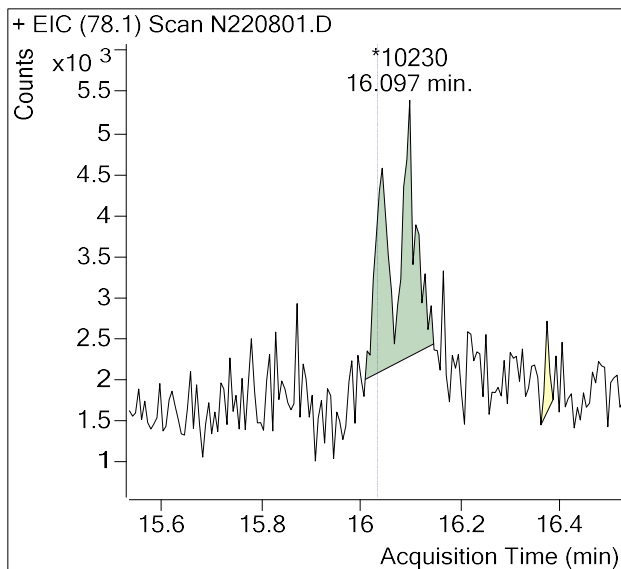
(m)=Manual Integration

1,3-Butadiene

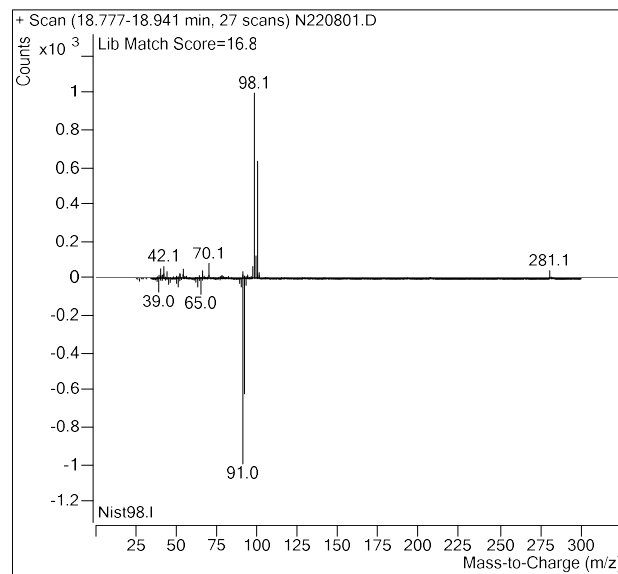
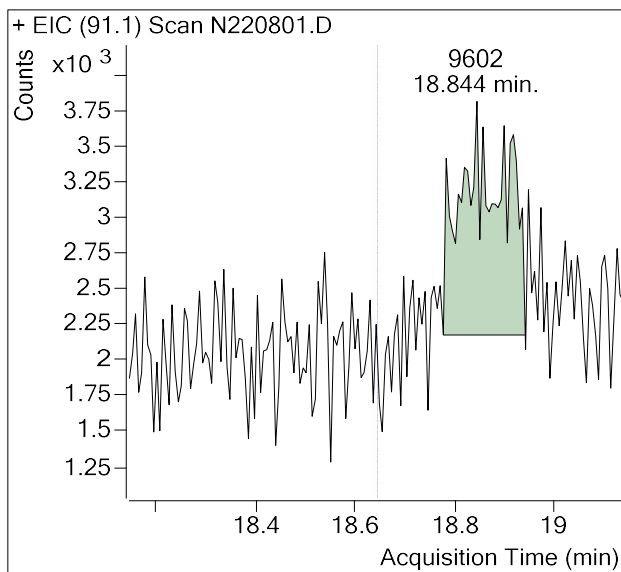


Sample Name : 2022EE105 Method Blank
Sample Info : B47919
Data File : N220801.D
Acquisition Date : 2023-01-04 15:45:28
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

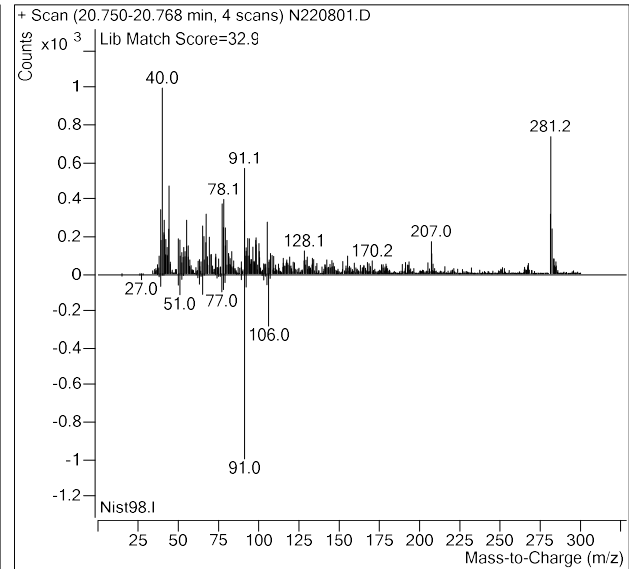
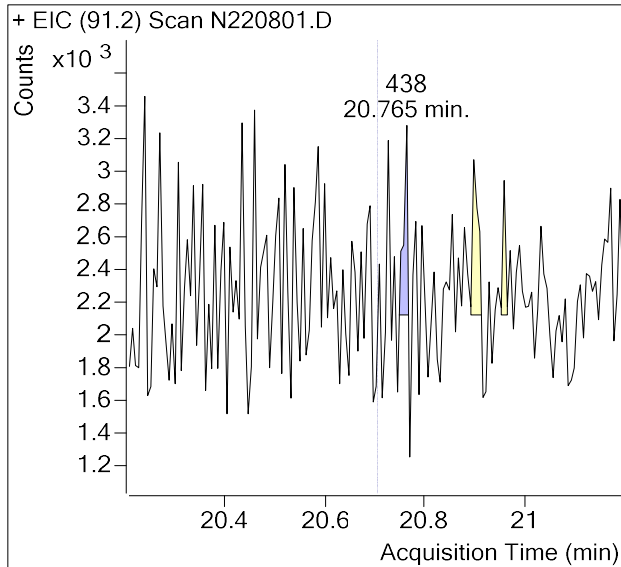


Toluene

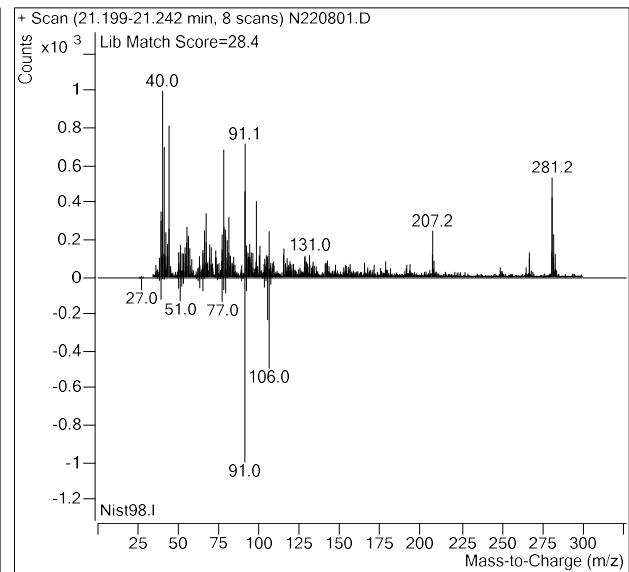
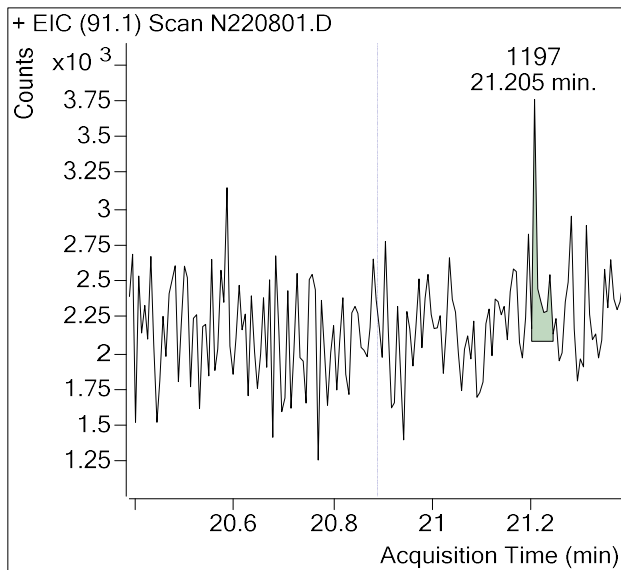


Sample Name : 2022EE105 Method Blank
Sample Info : B47919
Data File : N220801.D
Acquisition Date : 2023-01-04 15:45:28
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

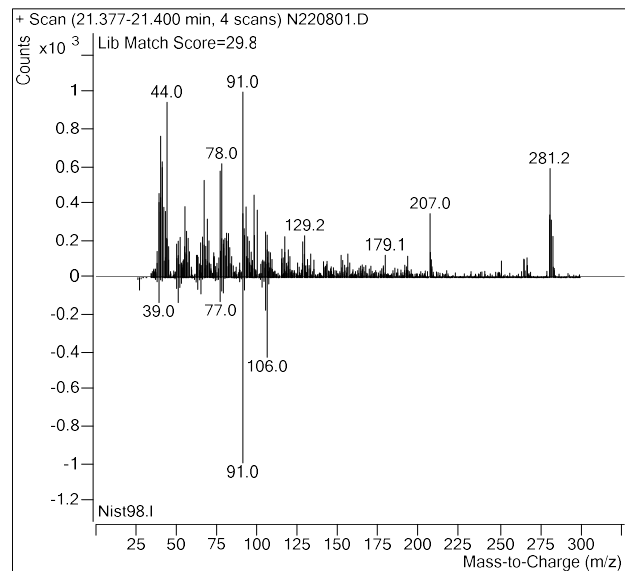
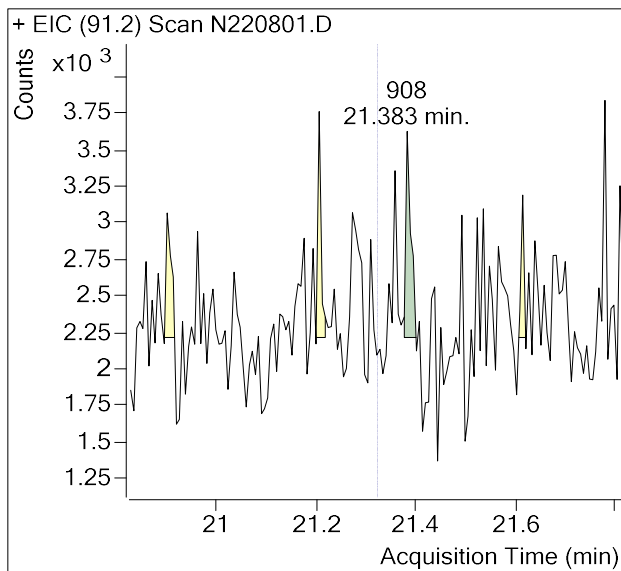


m-/p-Xylenes

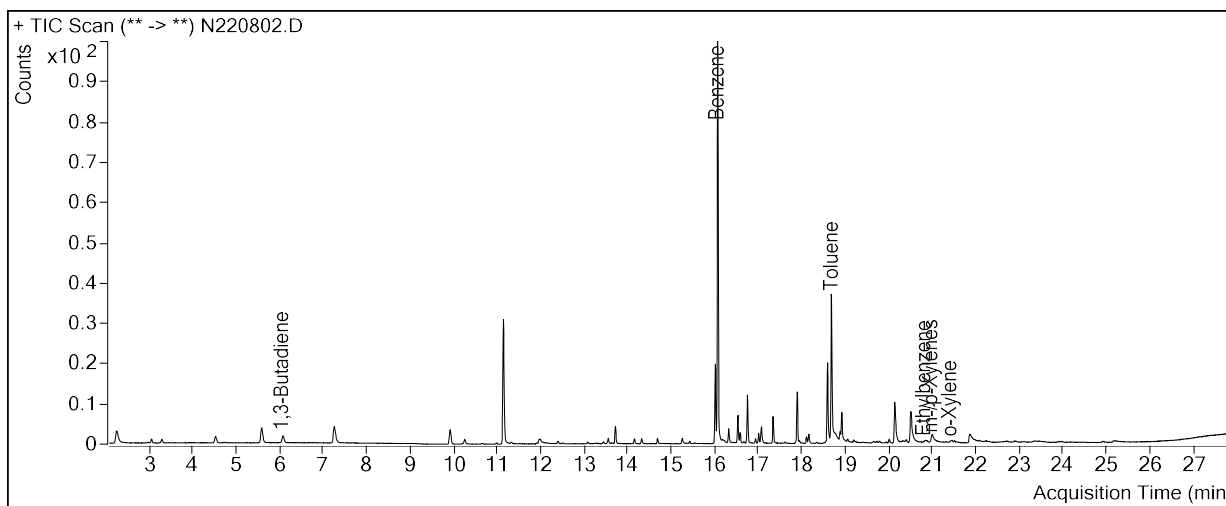


Sample Name : 2022EE105 Method Blank
Sample Info : B47919
Data File : N220801.D
Acquisition Date : 2023-01-04 15:45:28
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



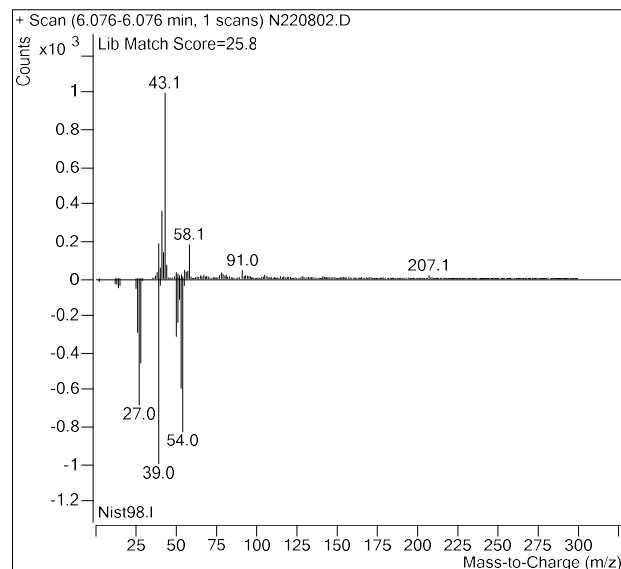
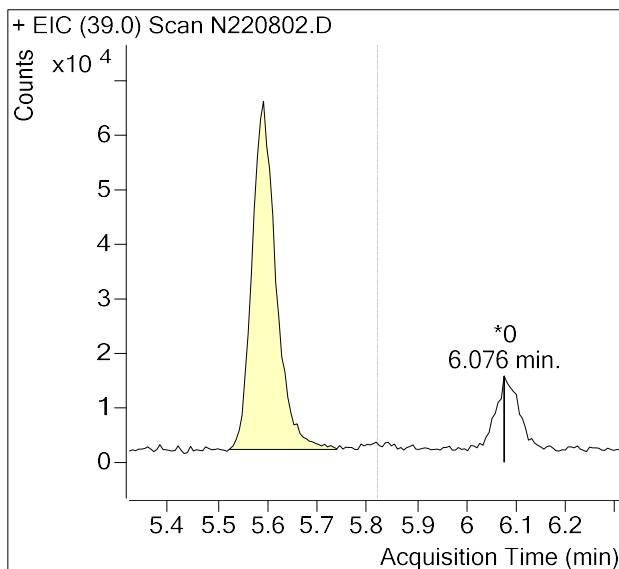
Sample Name : USSCL-PT10-D-20221206
Sample Info : B18509
Data File : N220802.D
Acquisition Date : 2023-01-04 16:25:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,781,871 | |
| Benzene | 16.03 | 8,493,860 | |
| Toluene-d8 (IS) | 18.55 | 1,494,627 | |
| Toluene | 18.64 | 3,304,775 | |
| Ethylbenzene | 20.70 | 37,342 | |
| m-/p-Xylenes | 20.89 | 127,021 | |
| o-Xylene | 21.32 | 53,086 | |

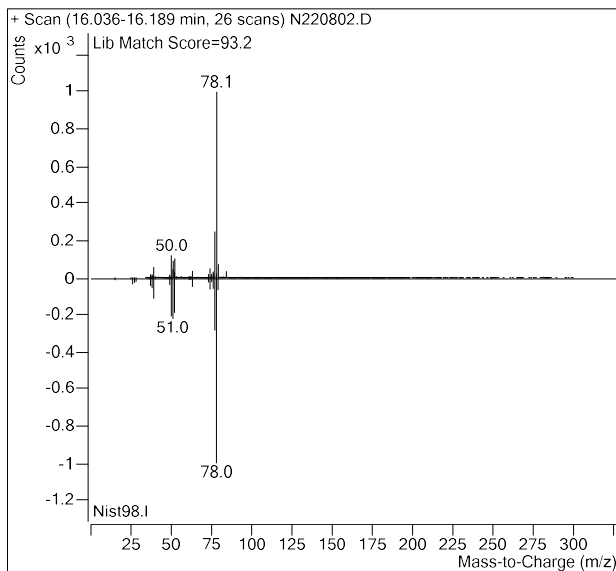
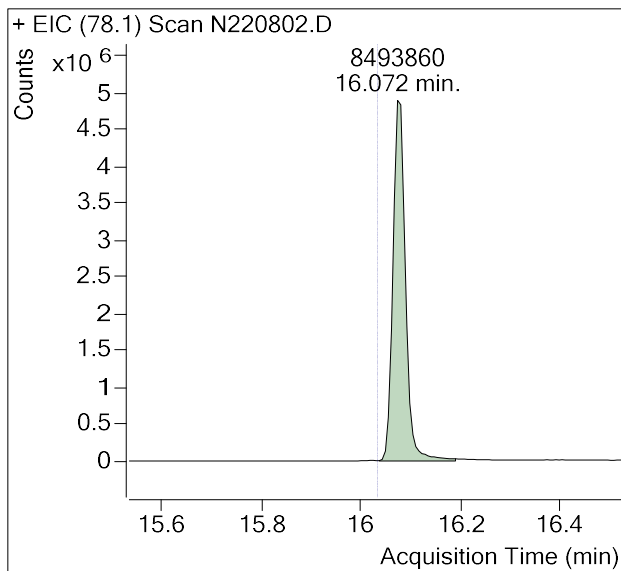
(m)=Manual Integration

1,3-Butadiene

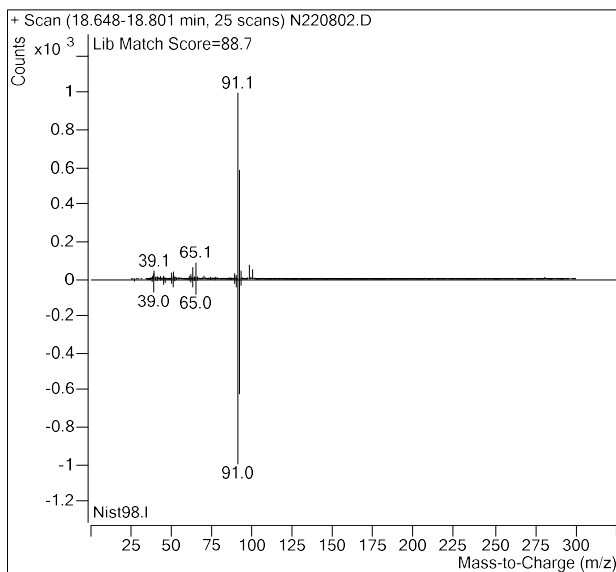
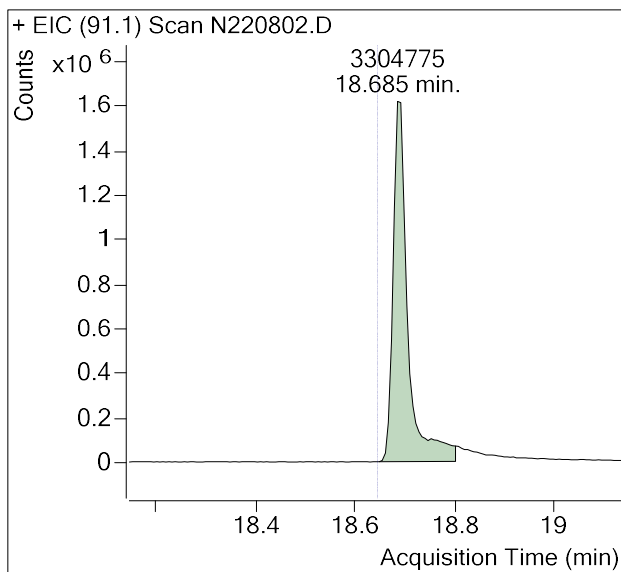


Sample Name : USSCL-PT10-D-20221206
Sample Info : B18509
Data File : N220802.D
Acquisition Date : 2023-01-04 16:25:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

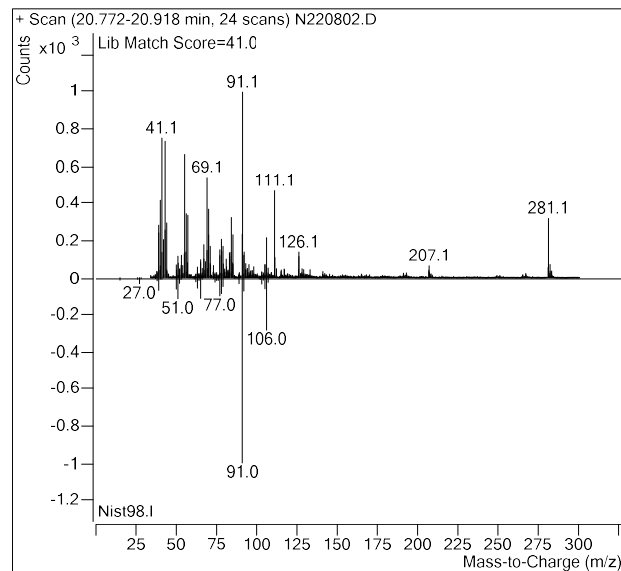
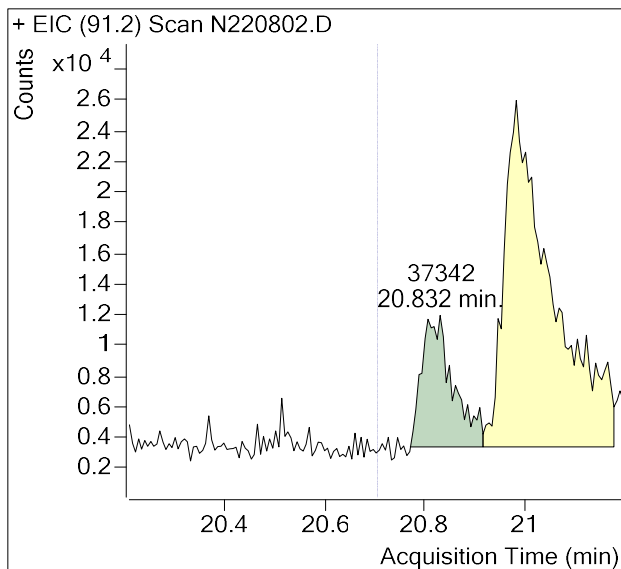


Toluene

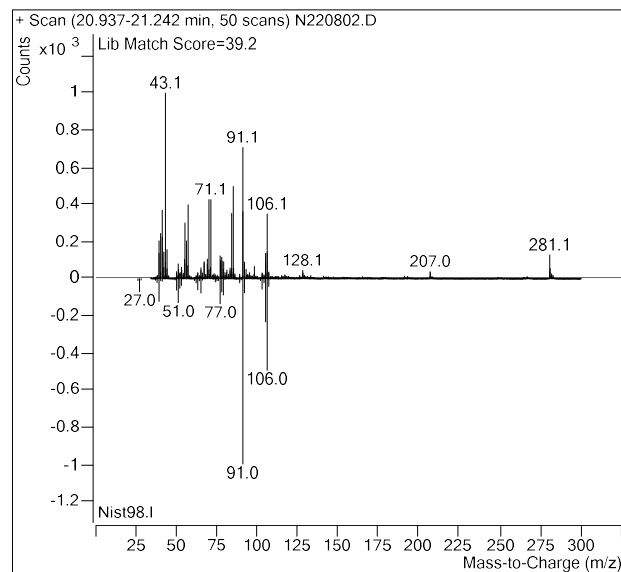
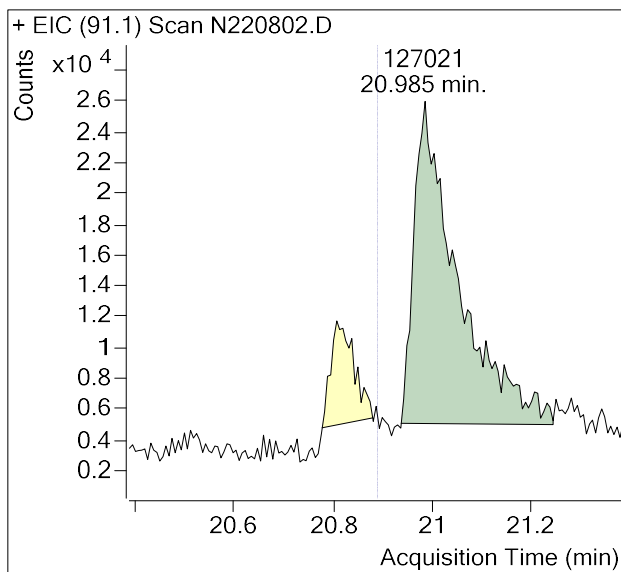


Sample Name : USSCL-PT10-D-20221206
Sample Info : B18509
Data File : N220802.D
Acquisition Date : 2023-01-04 16:25:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

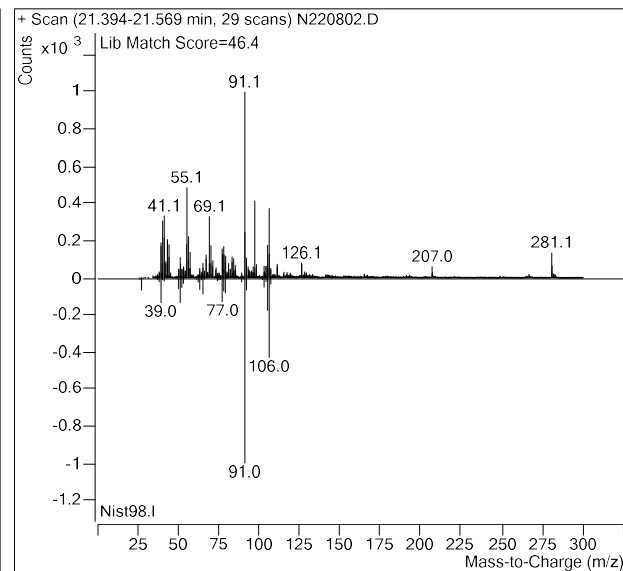
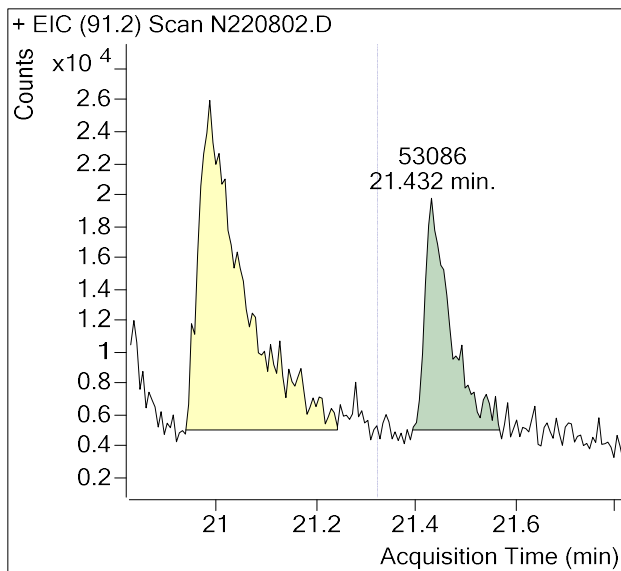


m-/p-Xylenes

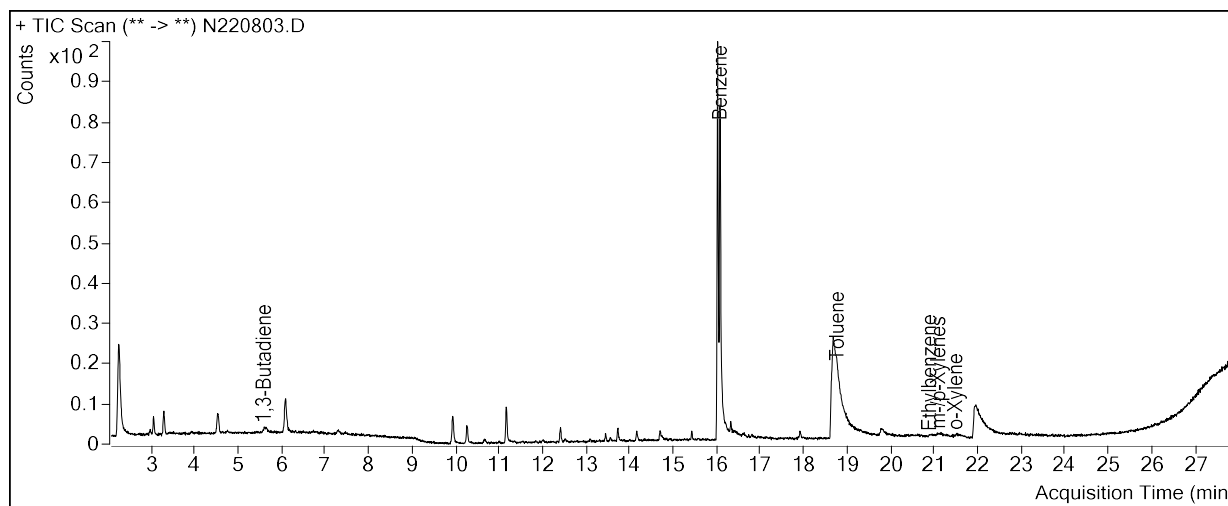


Sample Name : USSCL-PT10-D-20221206
Sample Info : B18509
Data File : N220802.D
Acquisition Date : 2023-01-04 16:25:19
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



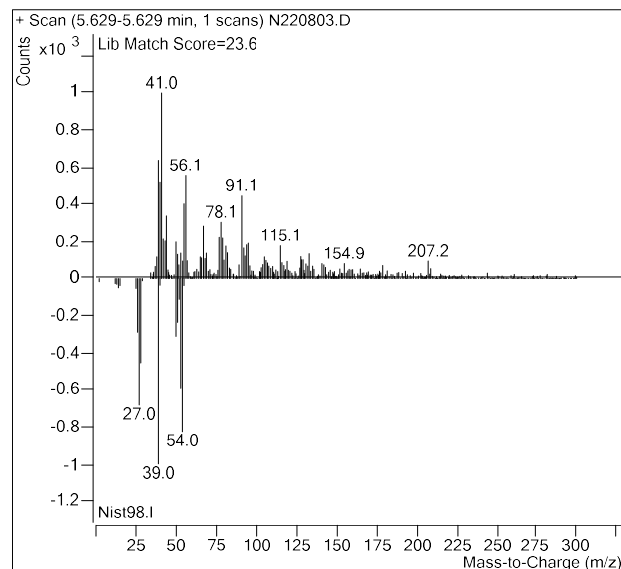
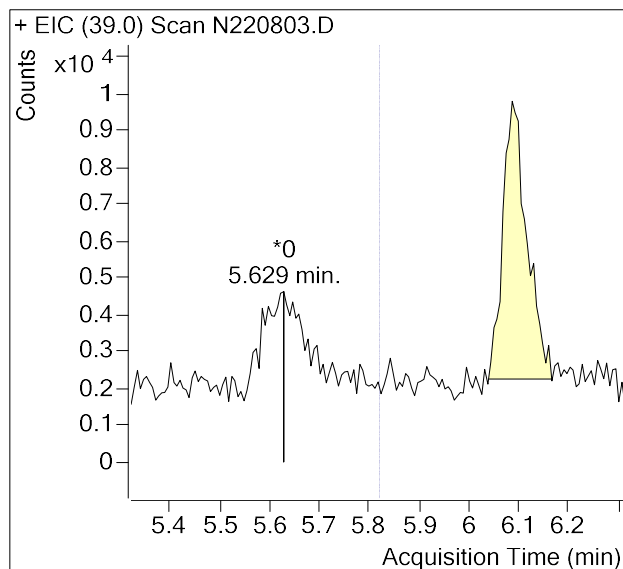
Sample Name : USSCL-PT01-S-20221206
Sample Info : B35483
Data File : N220803.D
Acquisition Date : 2023-01-04 17:05:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,535,039 | |
| Benzene | 16.03 | 1,093,734 | |
| Toluene-d8 (IS) | 18.55 | 1,422,418 | |
| Toluene | 18.64 | 311,823 | |
| Ethylbenzene | 20.70 | 17,846 | |
| m-/p-Xylenes | 20.89 | 14,875 | |
| o-Xylene | 21.32 | 11,159 | m |

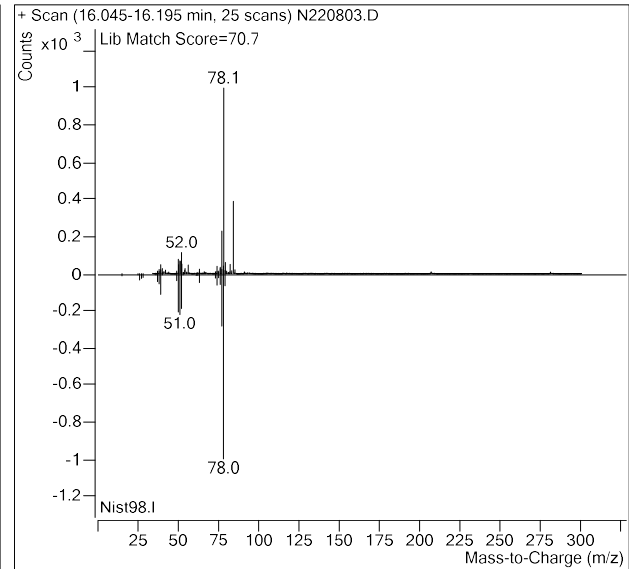
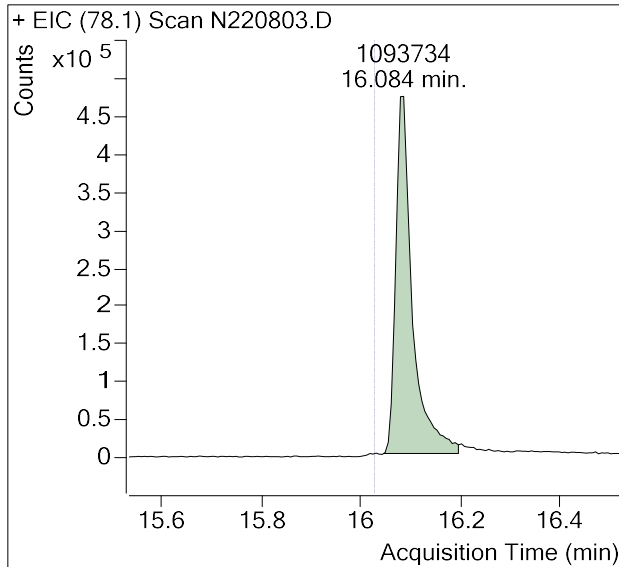
(m)=Manual Integration

1,3-Butadiene

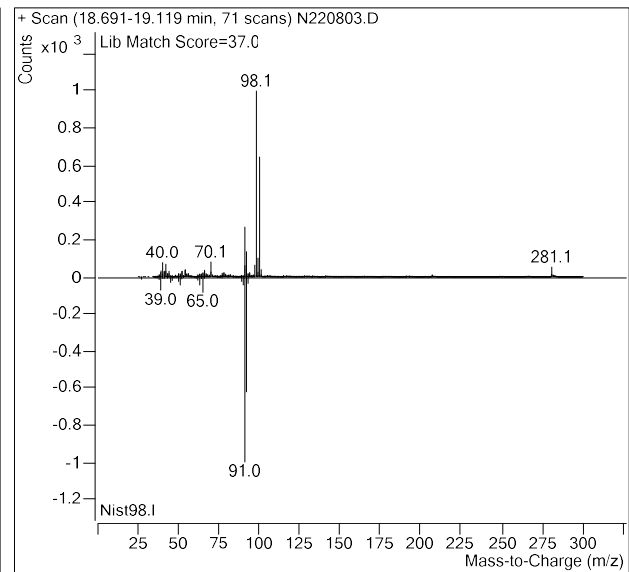
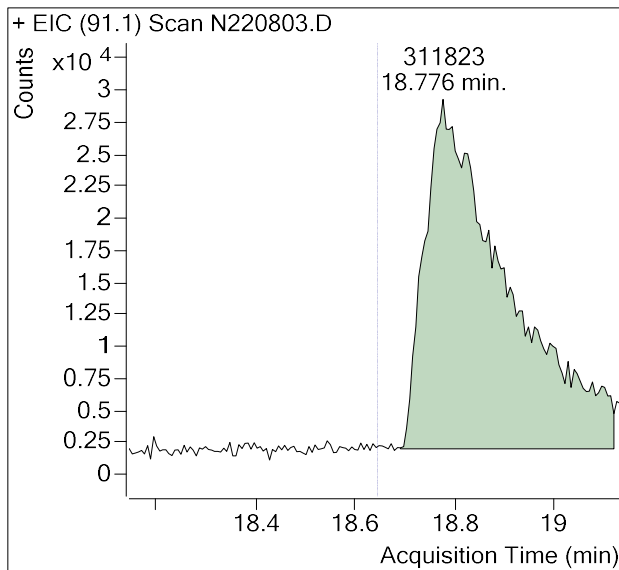


Sample Name : USSCL-PT01-S-20221206
Sample Info : B35483
Data File : N220803.D
Acquisition Date : 2023-01-04 17:05:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

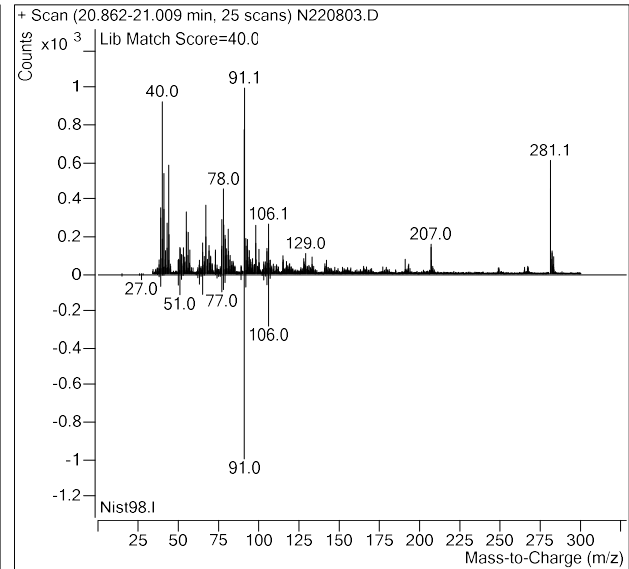
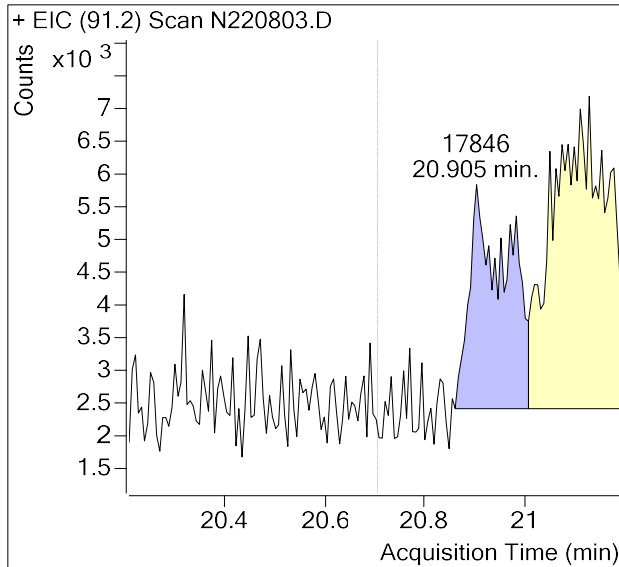


Toluene

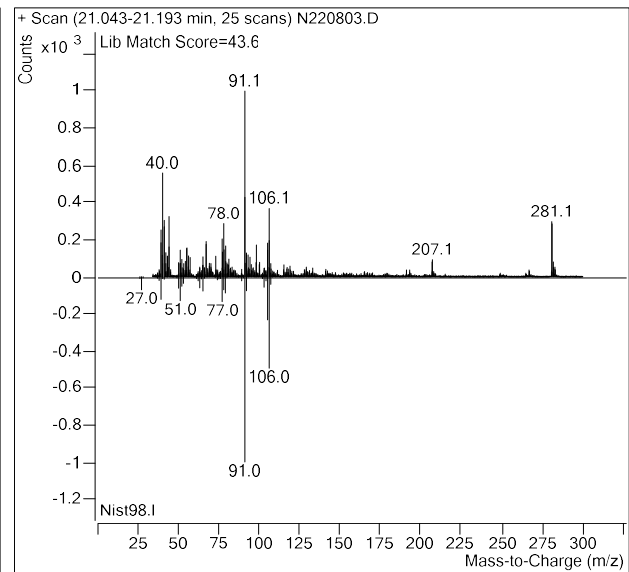
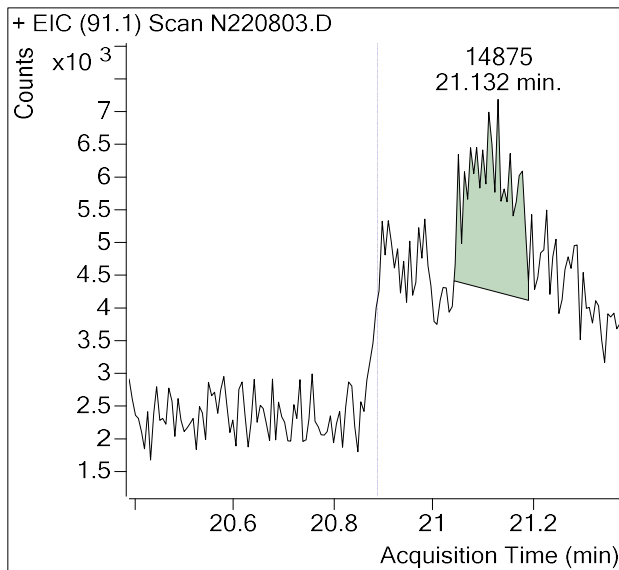


Sample Name : USSCL-PT01-S-20221206
Sample Info : B35483
Data File : N220803.D
Acquisition Date : 2023-01-04 17:05:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

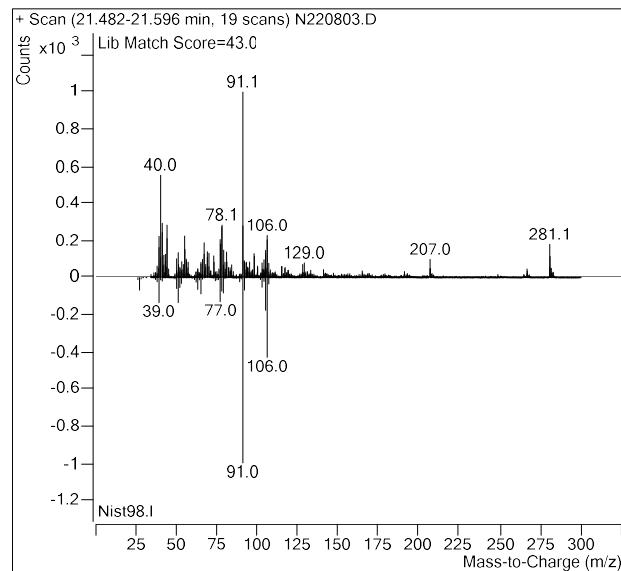
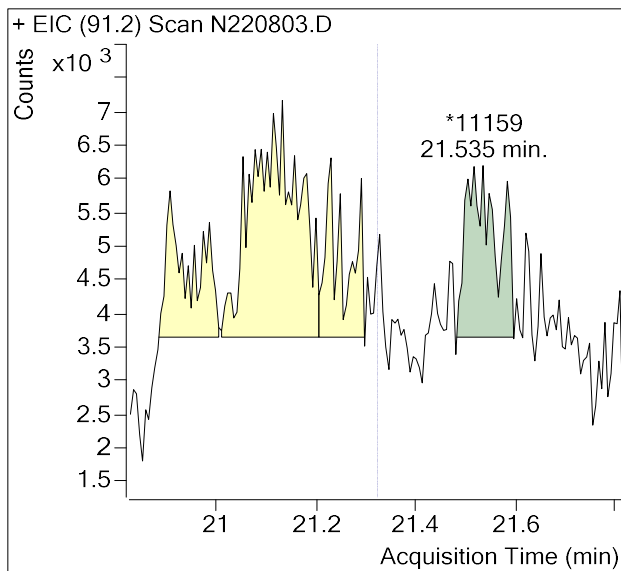


m-/p-Xylenes

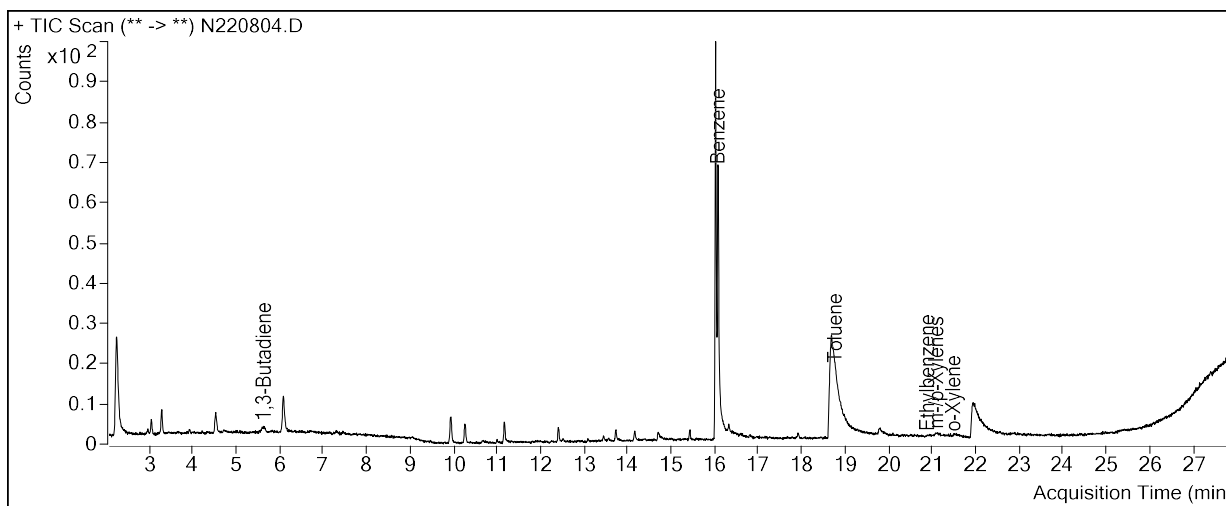


Sample Name : USSCL-PT01-S-20221206
Sample Info : B35483
Data File : N220803.D
Acquisition Date : 2023-01-04 17:05:08
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



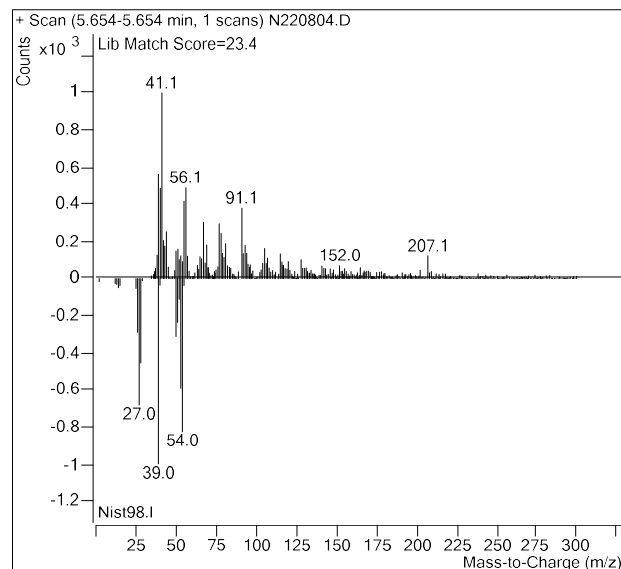
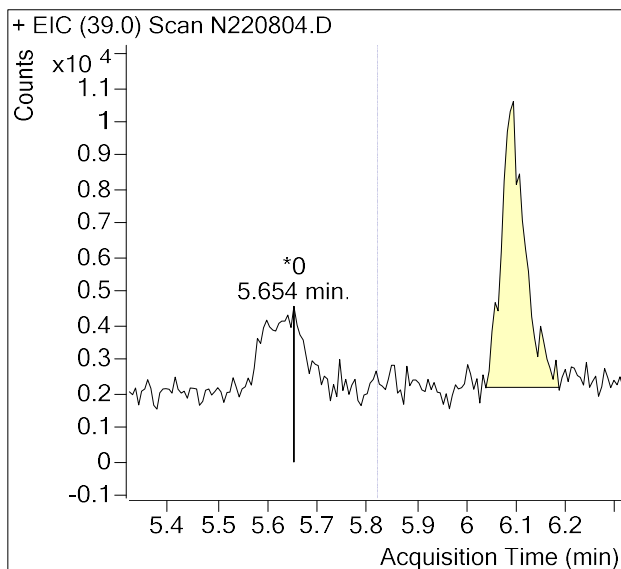
Sample Name : USSCL-PT02-S-20221206
Sample Info : B45075
Data File : N220804.D
Acquisition Date : 2023-01-04 17:45:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,518,984 | |
| Benzene | 16.03 | 895,425 | |
| Toluene-d8 (IS) | 18.55 | 1,409,548 | |
| Toluene | 18.64 | 252,526 | |
| Ethylbenzene | 20.70 | 6,337 | |
| m-/p-Xylenes | 20.89 | 16,564 | m |
| o-Xylene | 21.32 | 6,143 | m |

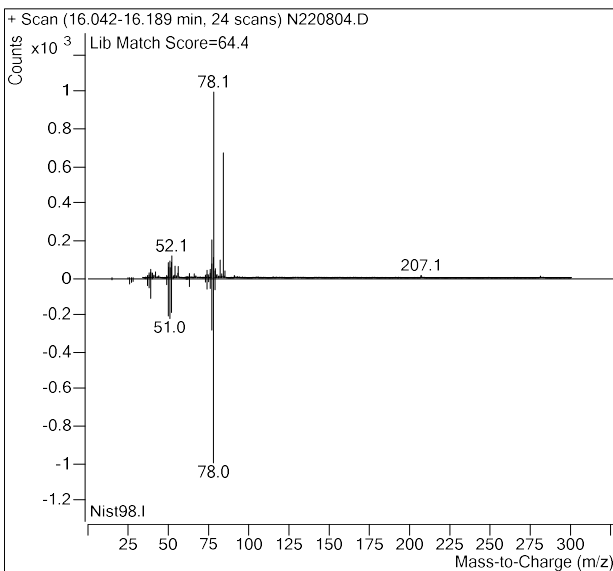
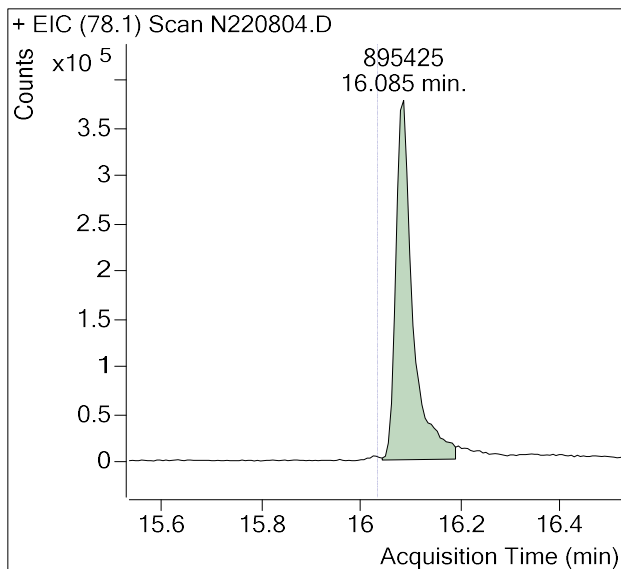
(m)=Manual Integration

1,3-Butadiene

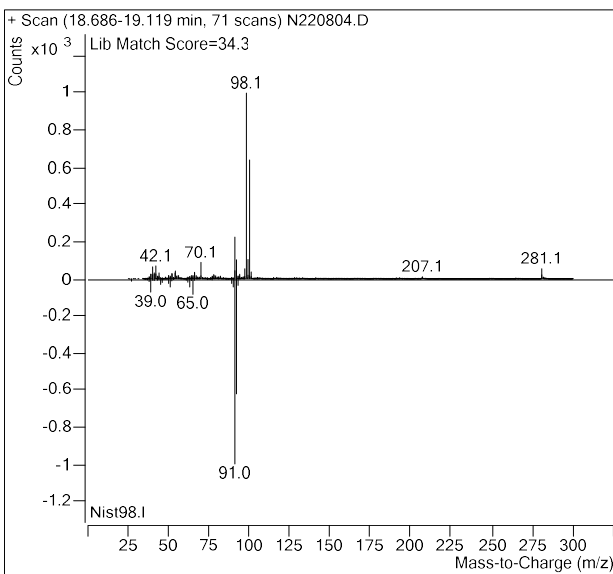
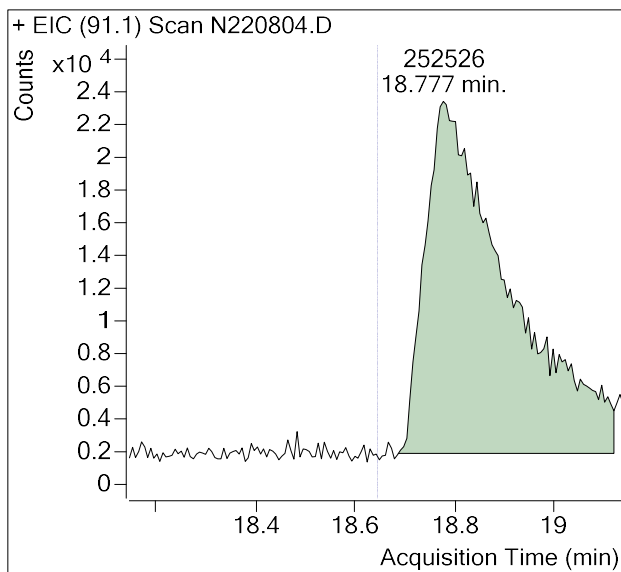


Sample Name : USSCL-PT02-S-20221206
Sample Info : B45075
Data File : N220804.D
Acquisition Date : 2023-01-04 17:45:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

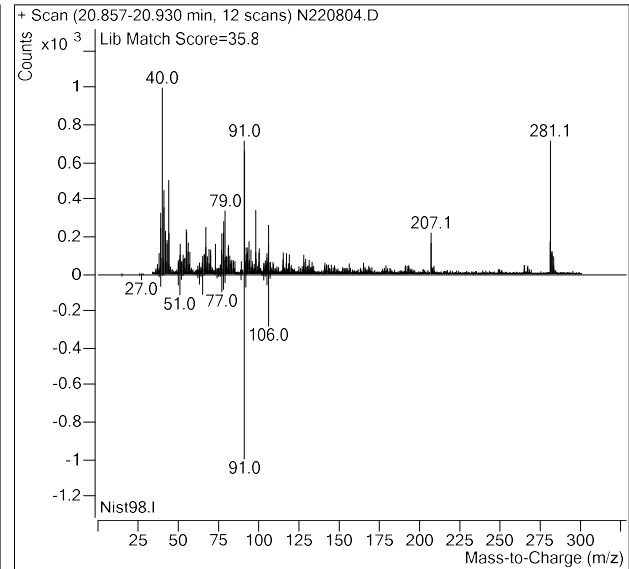
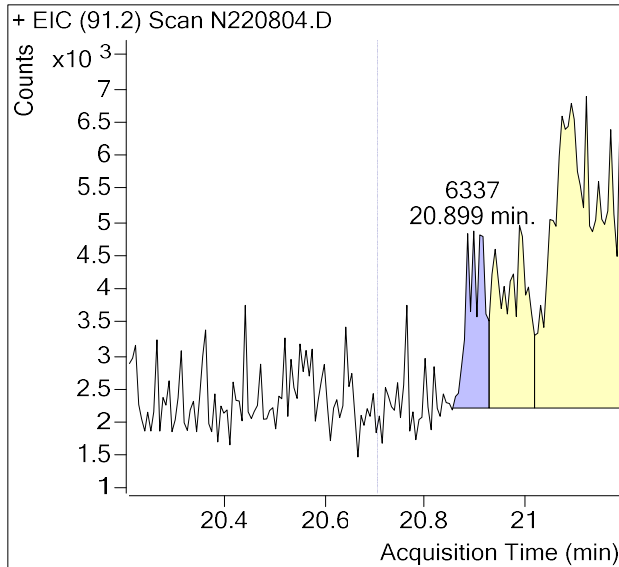


Toluene

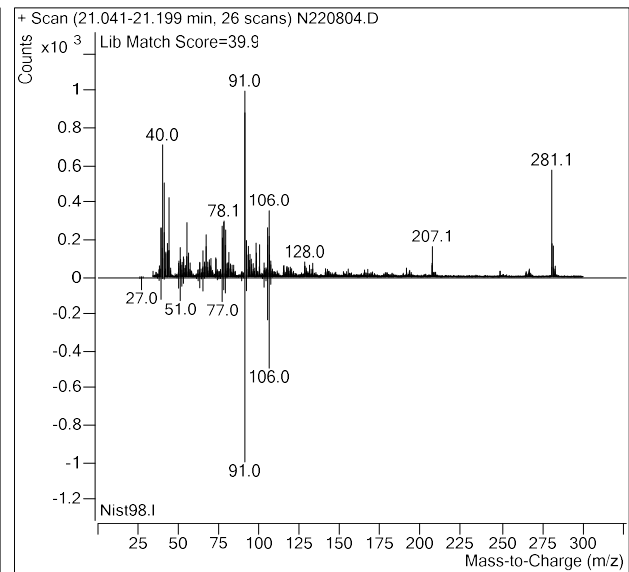
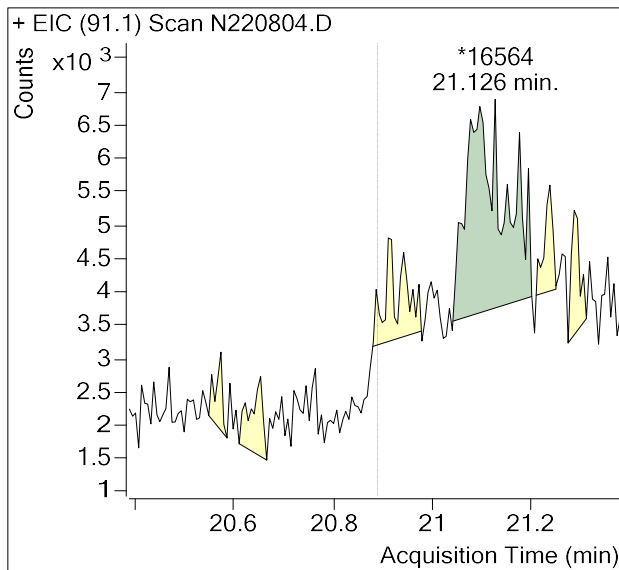


Sample Name : USSCL-PT02-S-20221206
Sample Info : B45075
Data File : N220804.D
Acquisition Date : 2023-01-04 17:45:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

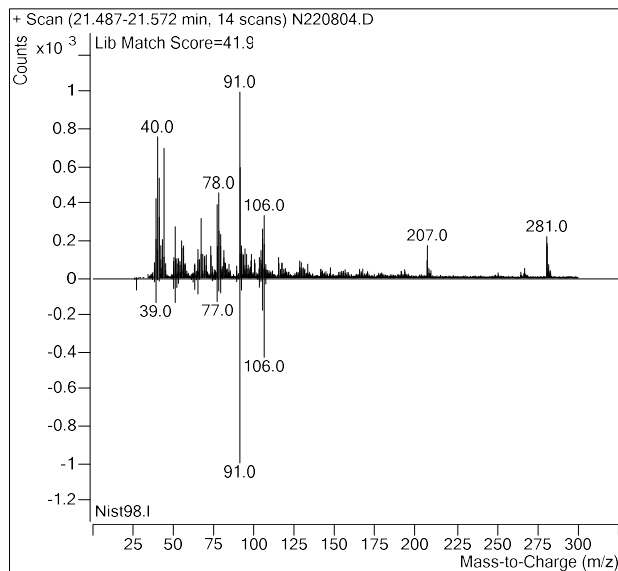
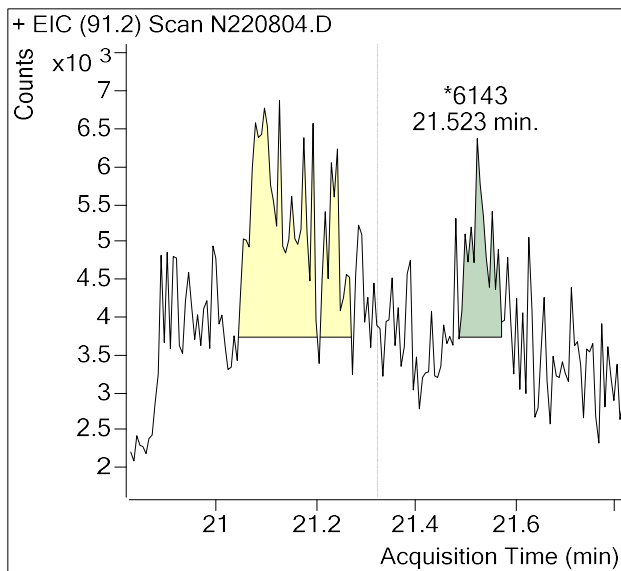


m-/p-Xylenes

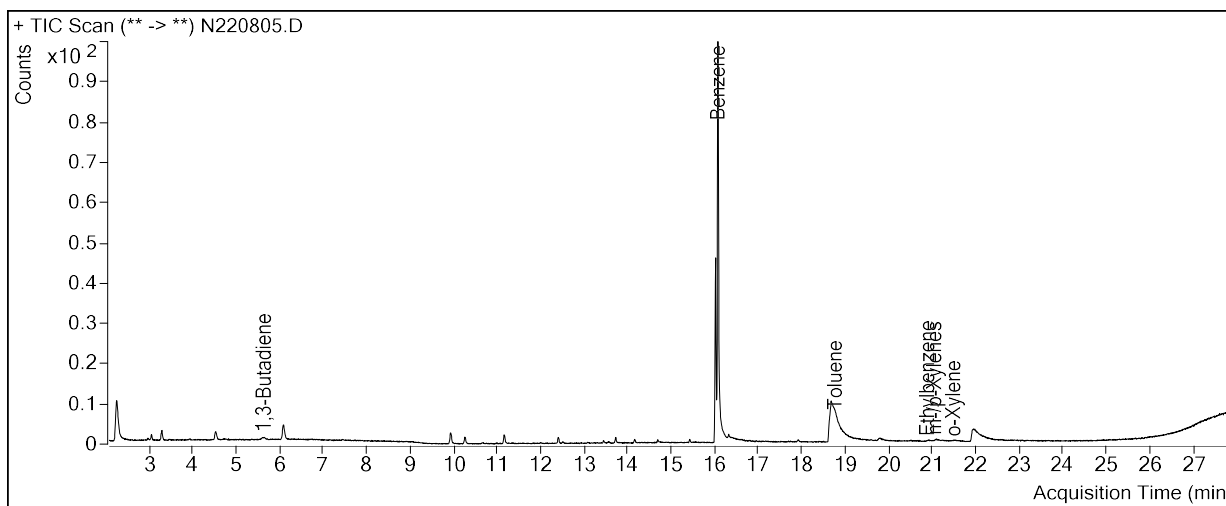


Sample Name : USSCL-PT02-S-20221206
Sample Info : B45075
Data File : N220804.D
Acquisition Date : 2023-01-04 17:45:00
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



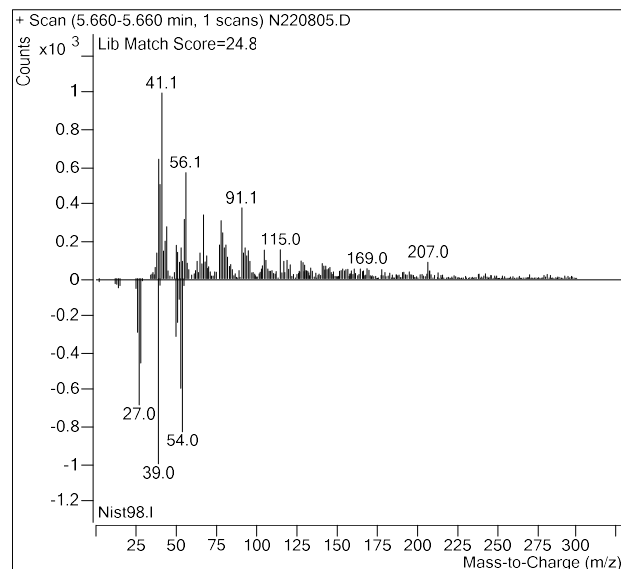
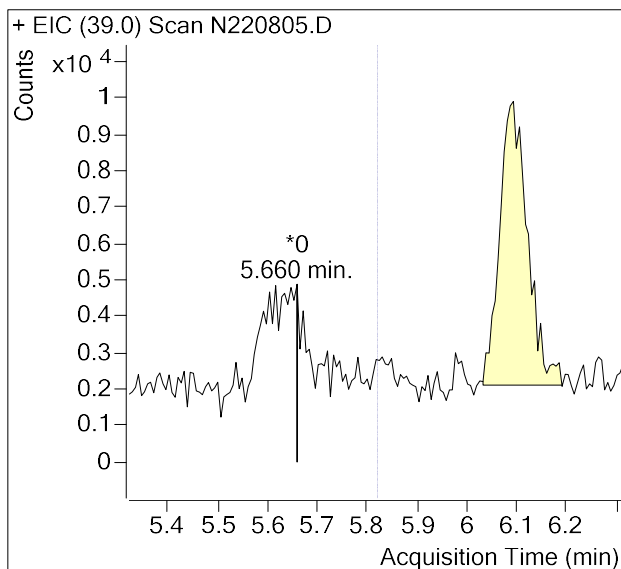
Sample Name : USSCL-PT03-S-20221206
Sample Info : C00721
Data File : N220805.D
Acquisition Date : 2023-01-04 18:24:49
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,610,268 | |
| Benzene | 16.03 | 3,302,835 | |
| Toluene-d8 (IS) | 18.55 | 1,437,635 | |
| Toluene | 18.64 | 371,307 | |
| Ethylbenzene | 20.70 | 18,316 | |
| m-/p-Xylenes | 20.89 | 43,198 | m |
| o-Xylene | 21.32 | 5,021 | m |

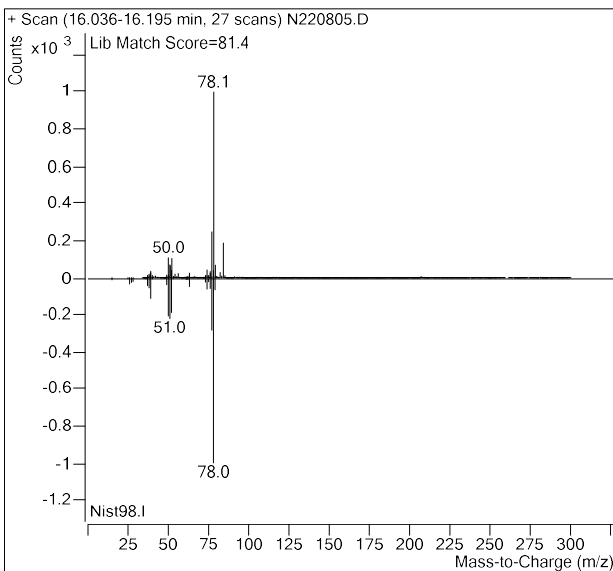
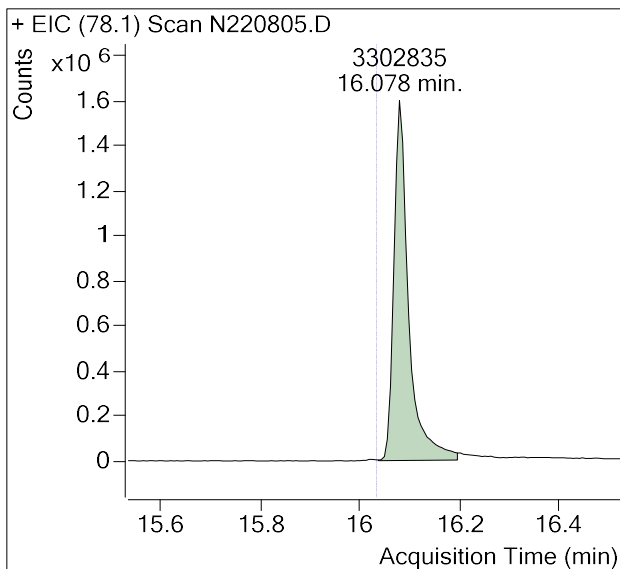
(m)=Manual Integration

1,3-Butadiene

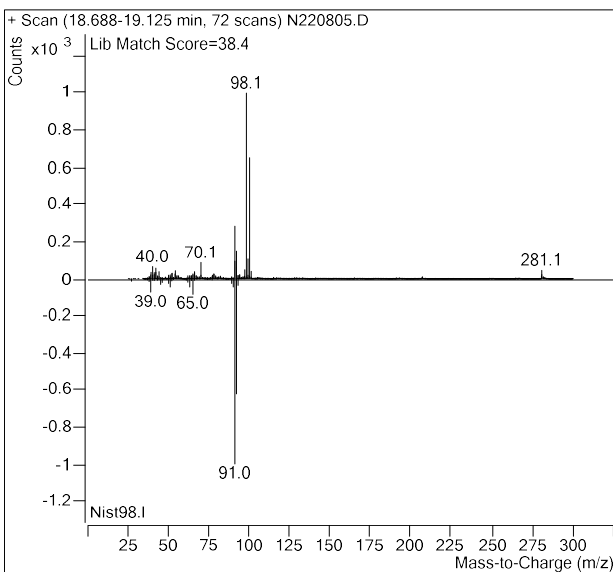
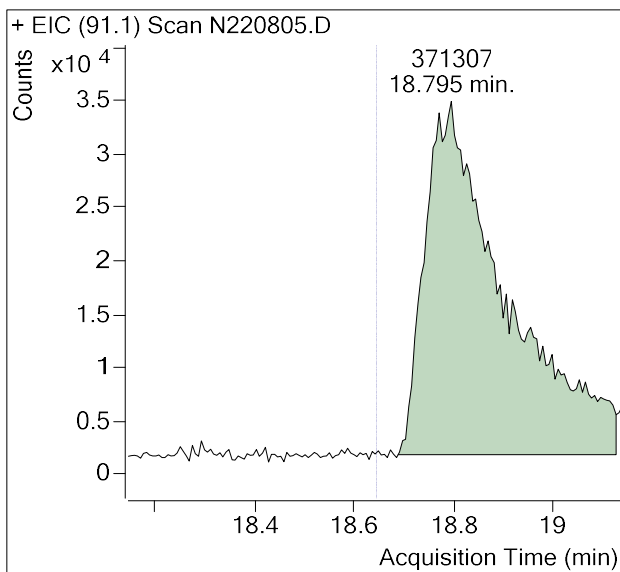


Sample Name : USSCL-PT03-S-20221206
Sample Info : C00721
Data File : N220805.D
Acquisition Date : 2023-01-04 18:24:49
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

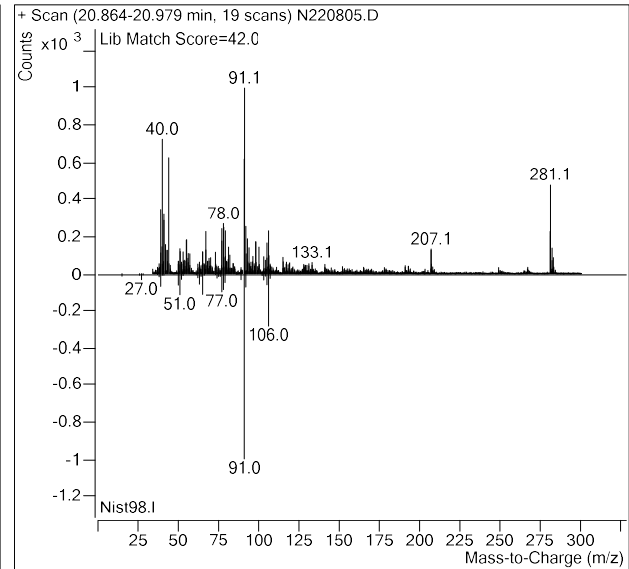
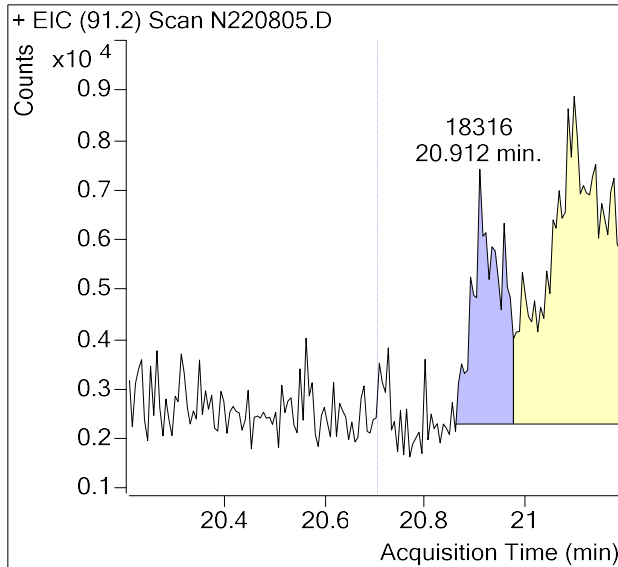


Toluene

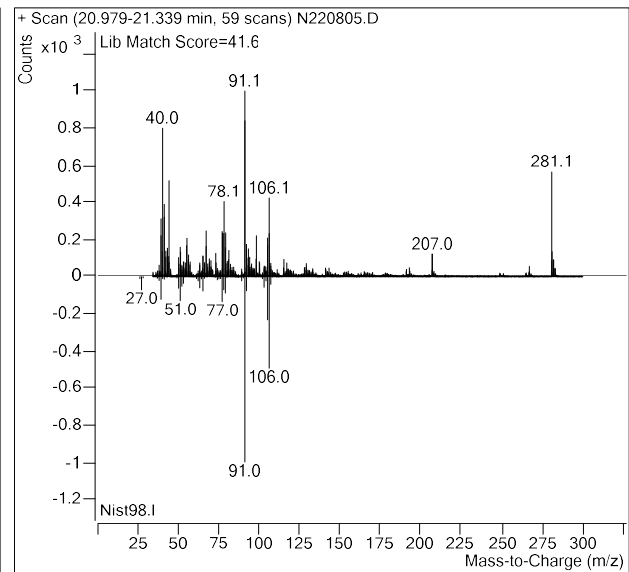
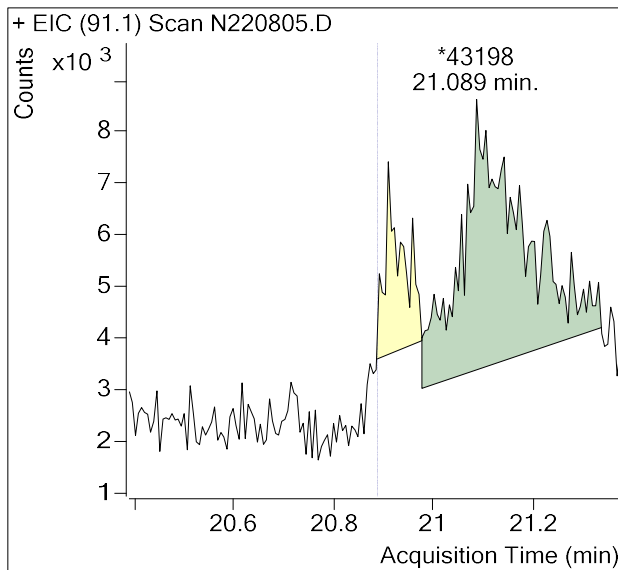


Sample Name : USSCL-PT03-S-20221206
Sample Info : C00721
Data File : N220805.D
Acquisition Date : 2023-01-04 18:24:49
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

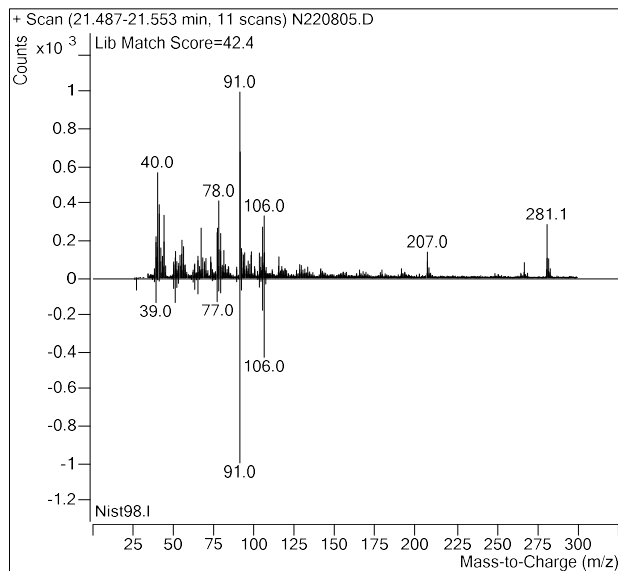
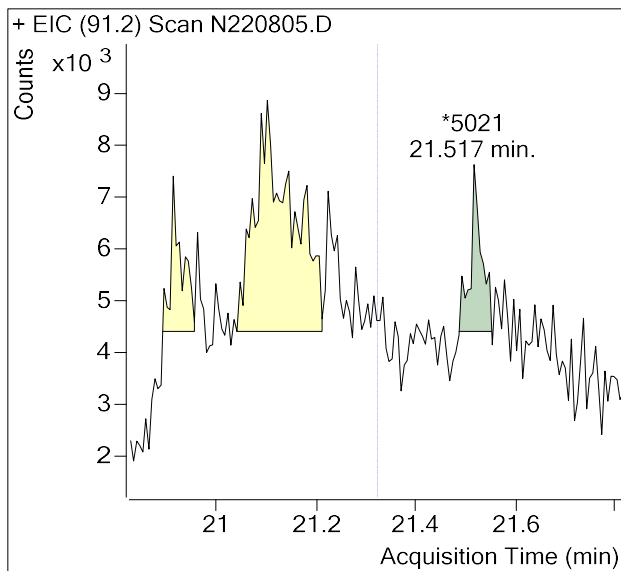


m-/p-Xylenes

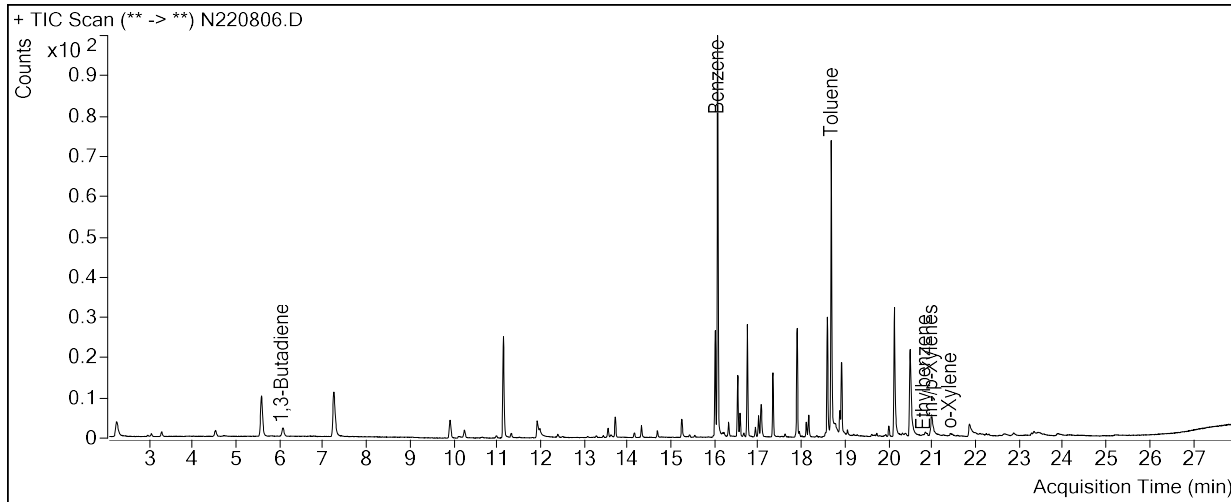


Sample Name : USSCL-PT03-S-20221206
Sample Info : C00721
Data File : N220805.D
Acquisition Date : 2023-01-04 18:24:49
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



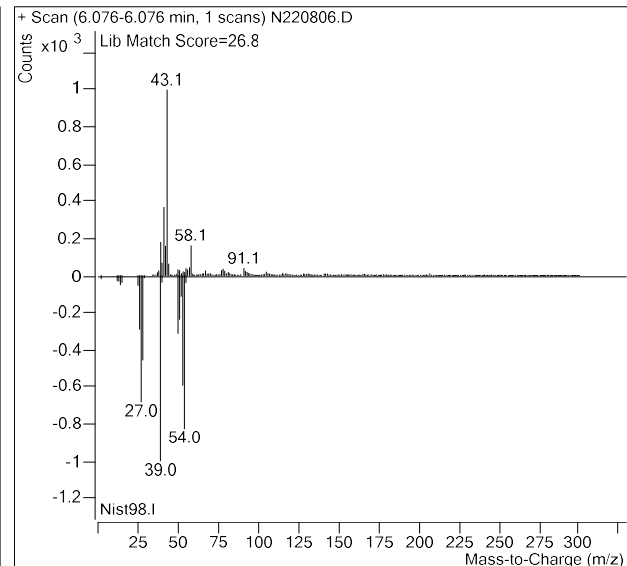
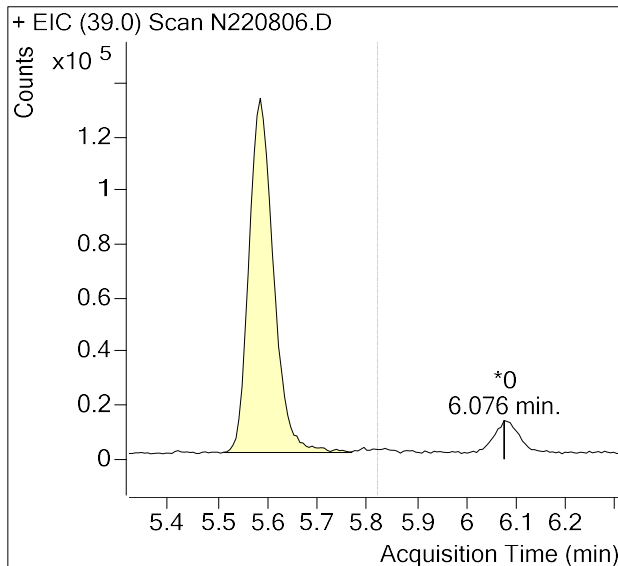
Sample Name : USSCL-PT04-S-20221206
Sample Info : B12080
Data File : N220806.D
Acquisition Date : 2023-01-04 19:04:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,807,046 | |
| Benzene | 16.03 | 6,436,624 | |
| Toluene-d8 (IS) | 18.55 | 1,733,714 | |
| Toluene | 18.64 | 4,360,224 | |
| Ethylbenzene | 20.70 | 42,345 | |
| m-/p-Xylenes | 20.89 | 145,683 | |
| o-Xylene | 21.32 | 55,556 | |

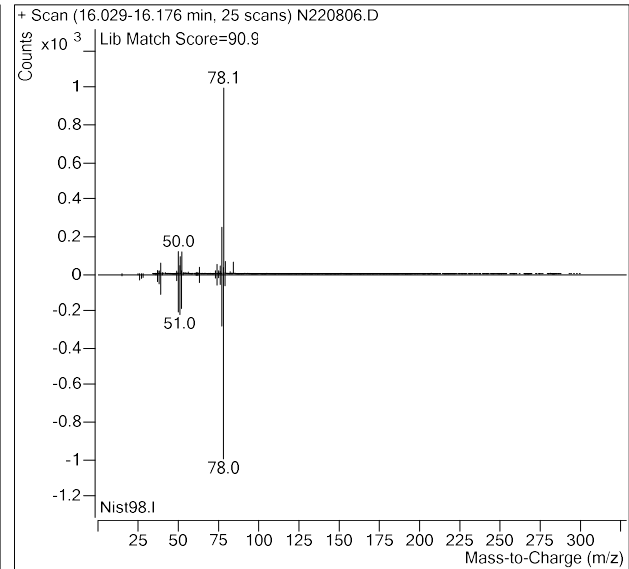
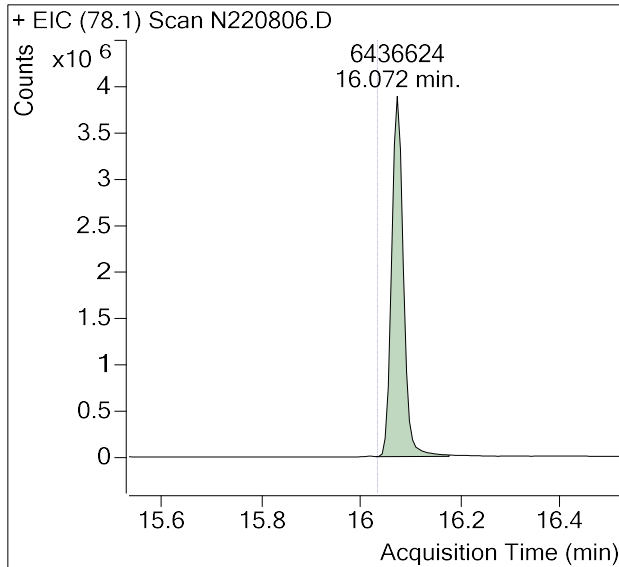
(m)=Manual Integration

1,3-Butadiene

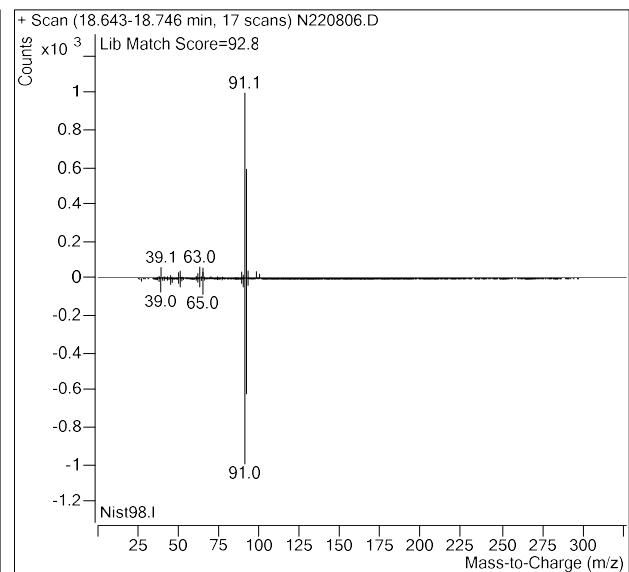
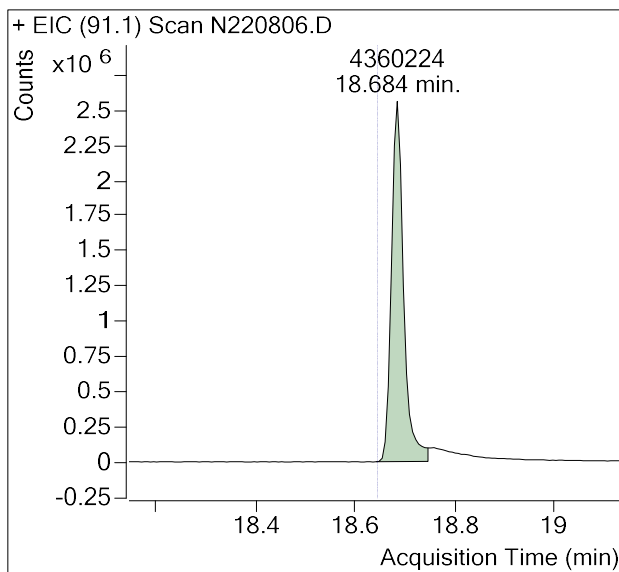


Sample Name : USSCL-PT04-S-20221206
Sample Info : B12080
Data File : N220806.D
Acquisition Date : 2023-01-04 19:04:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

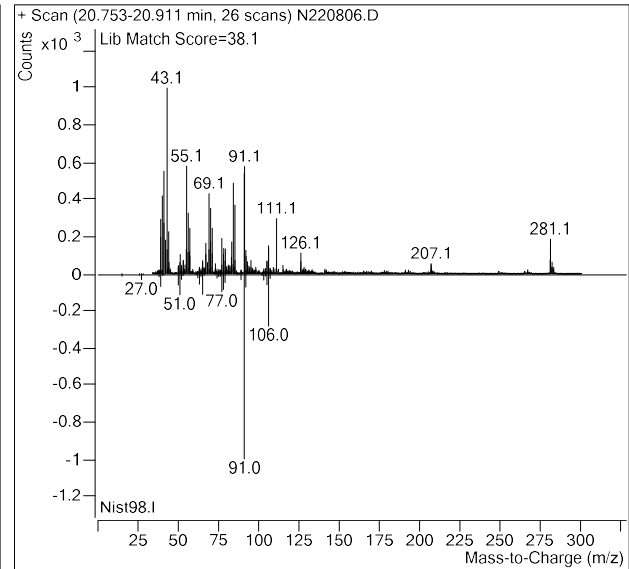
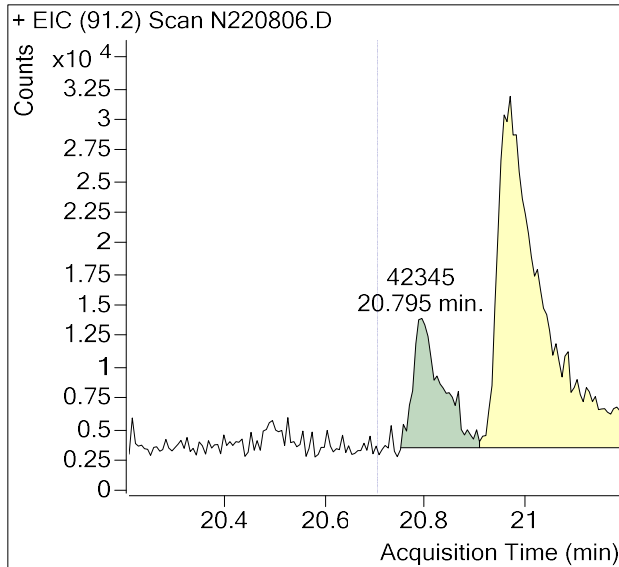


Toluene

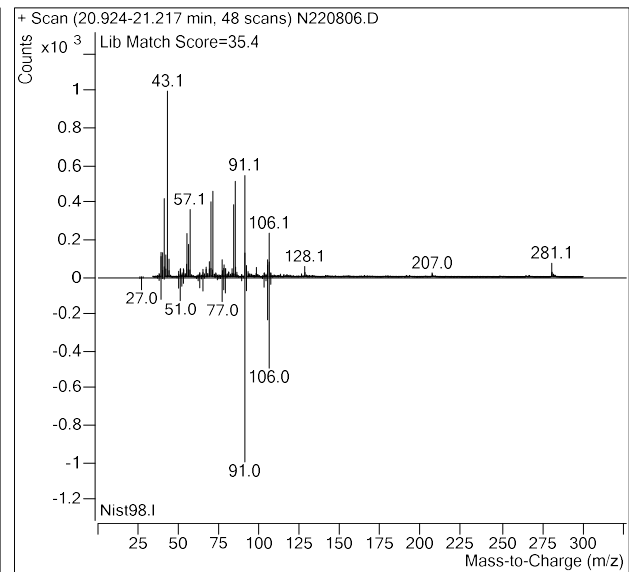
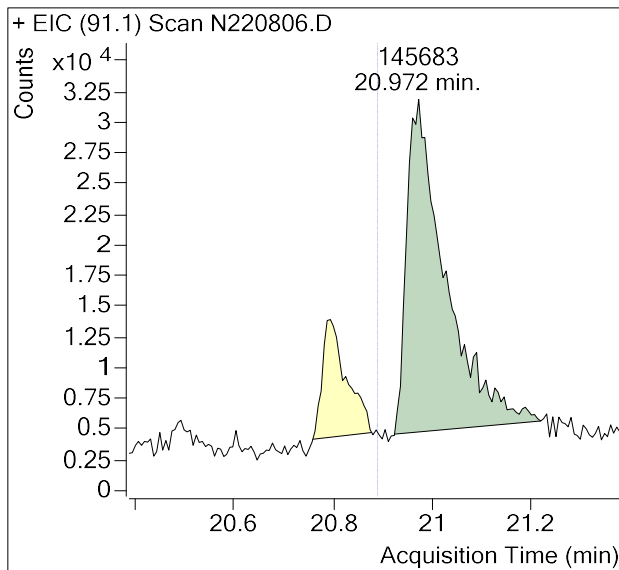


Sample Name : USSCL-PT04-S-20221206
Sample Info : B12080
Data File : N220806.D
Acquisition Date : 2023-01-04 19:04:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

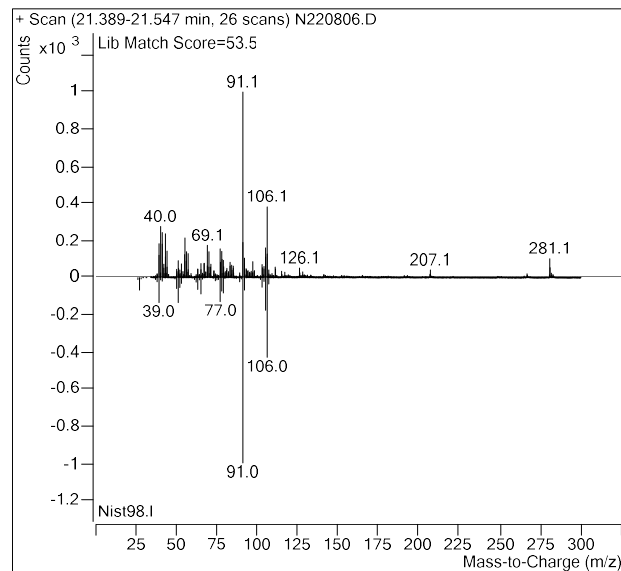
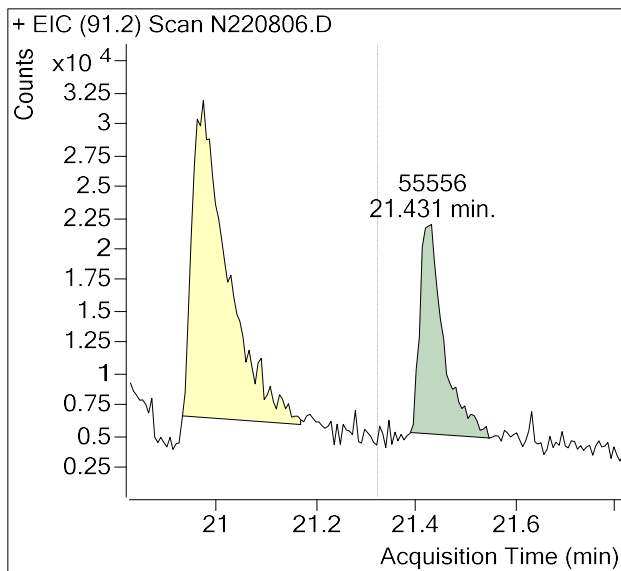


m-/p-Xylenes

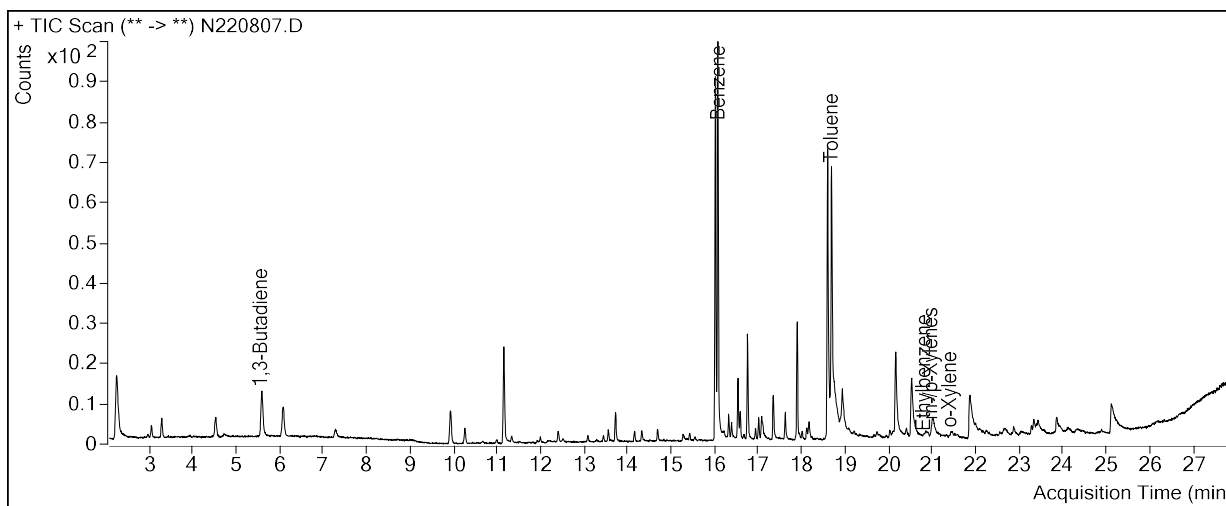


Sample Name : USSCL-PT04-S-20221206
Sample Info : B12080
Data File : N220806.D
Acquisition Date : 2023-01-04 19:04:39
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



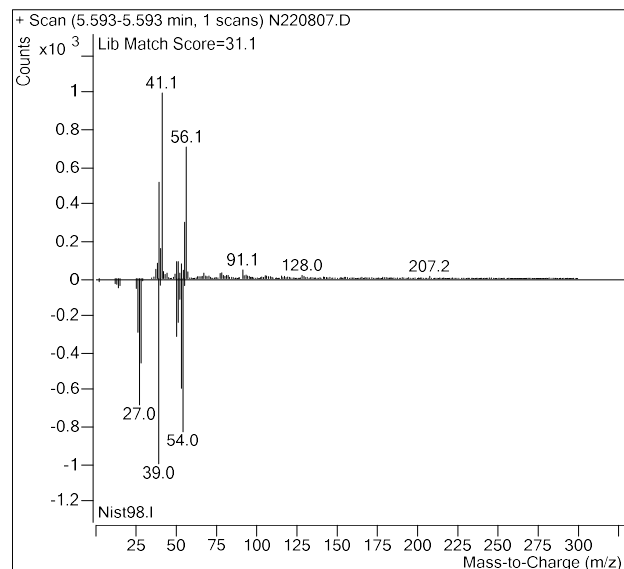
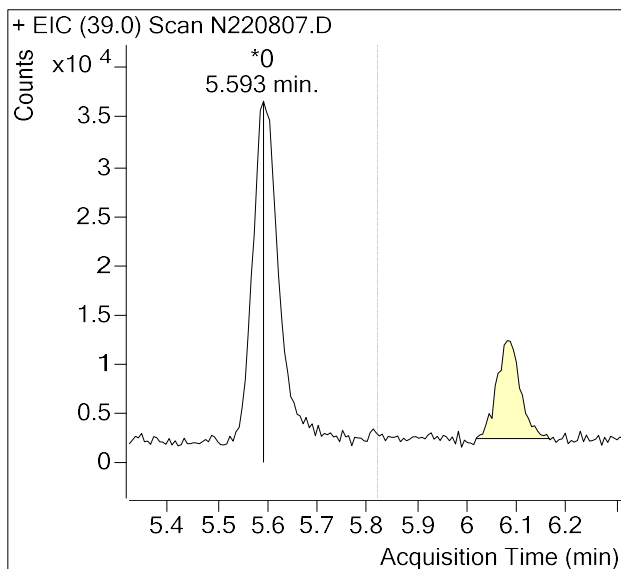
Sample Name : USSCL-PT05-S-20221206
Sample Info : C17157
Data File : N220807.D
Acquisition Date : 2023-01-04 19:44:30
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,689,756 | |
| Benzene | 16.03 | 1,654,925 | |
| Toluene-d8 (IS) | 18.55 | 1,456,848 | |
| Toluene | 18.64 | 1,453,673 | |
| Ethylbenzene | 20.70 | 22,636 | |
| m-/p-Xylenes | 20.89 | 68,752 | m |
| o-Xylene | 21.32 | 31,817 | |

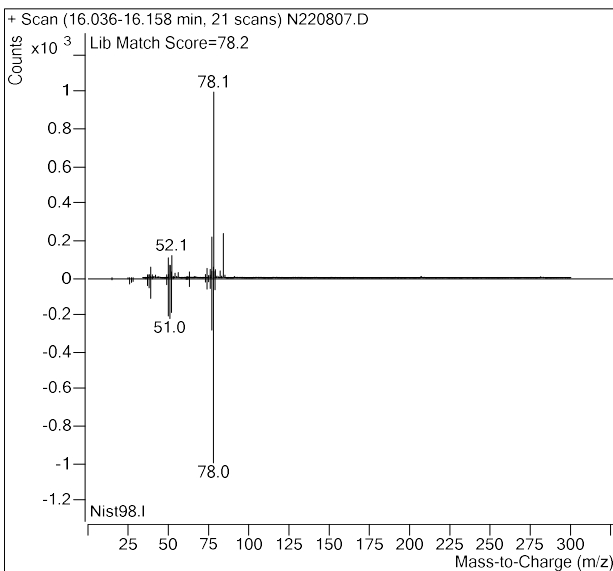
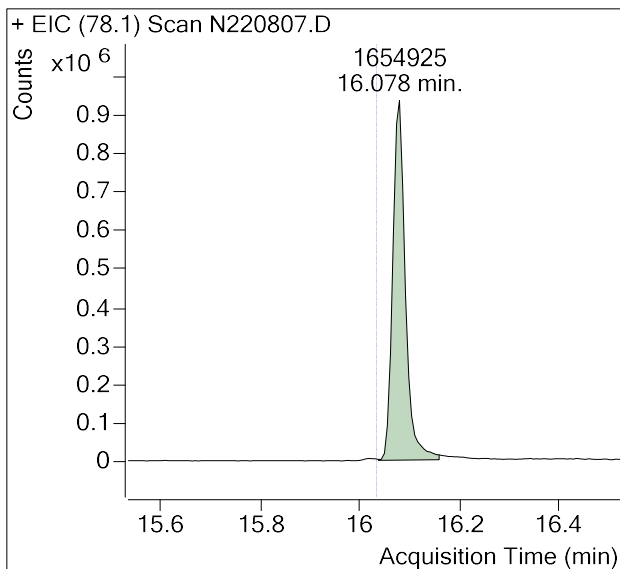
(m)=Manual Integration

1,3-Butadiene

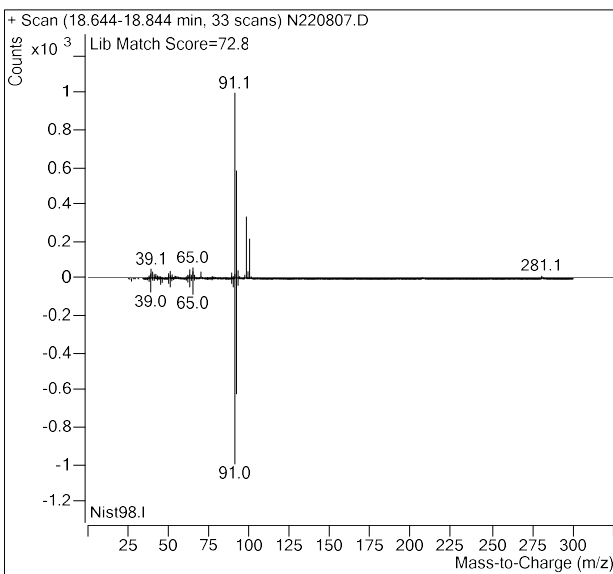
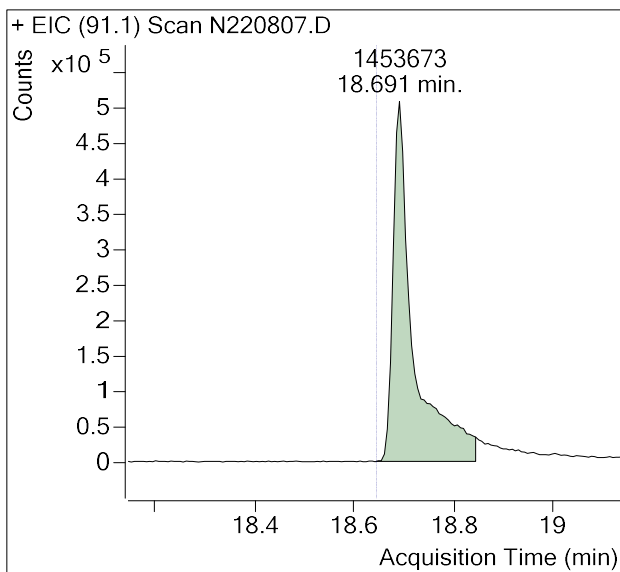


Sample Name : USSCL-PT05-S-20221206
Sample Info : C17157
Data File : N220807.D
Acquisition Date : 2023-01-04 19:44:30
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

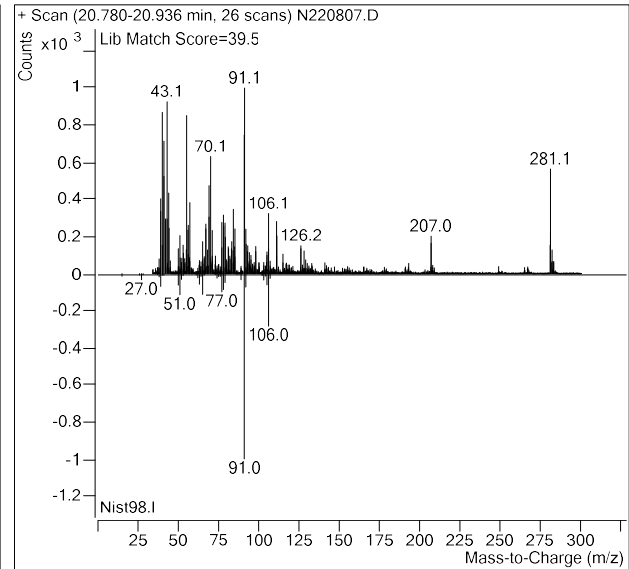
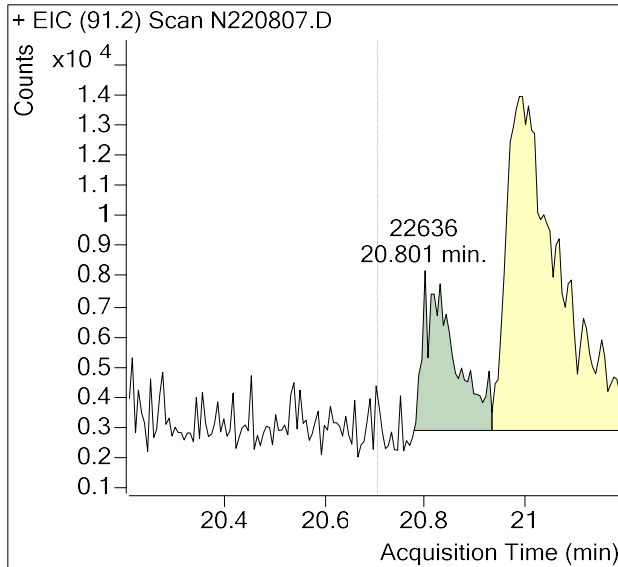


Toluene

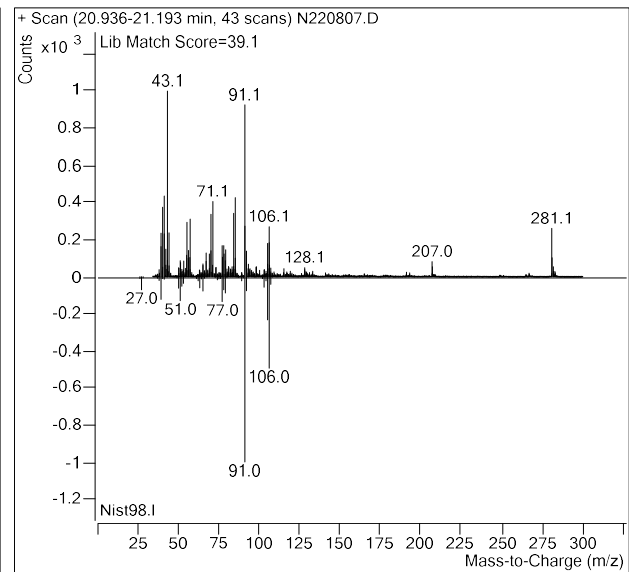
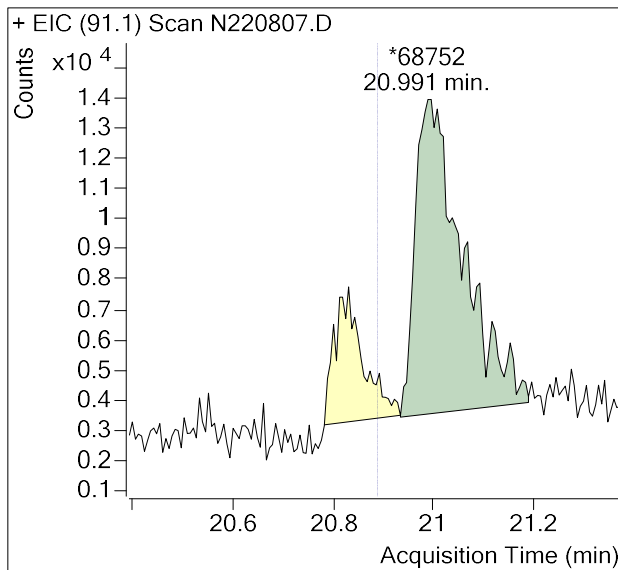


Sample Name : USSCL-PT05-S-20221206
Sample Info : C17157
Data File : N220807.D
Acquisition Date : 2023-01-04 19:44:30
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

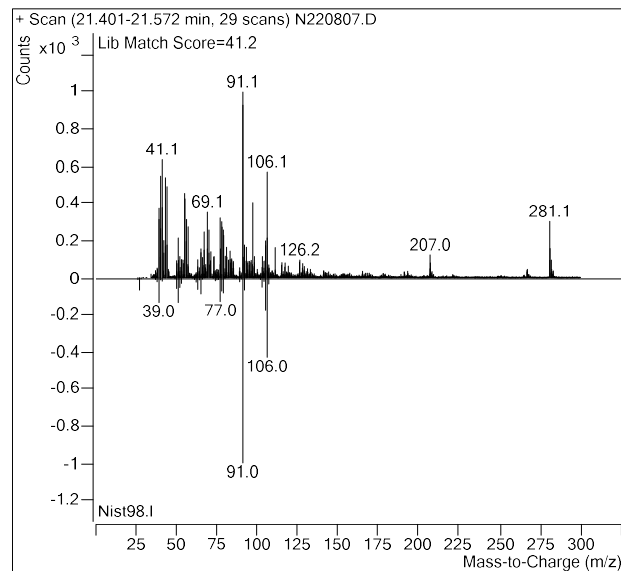
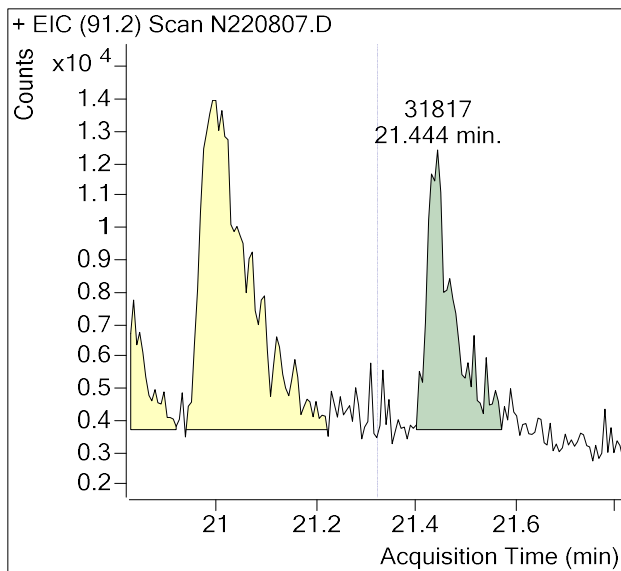


m-/p-Xylenes

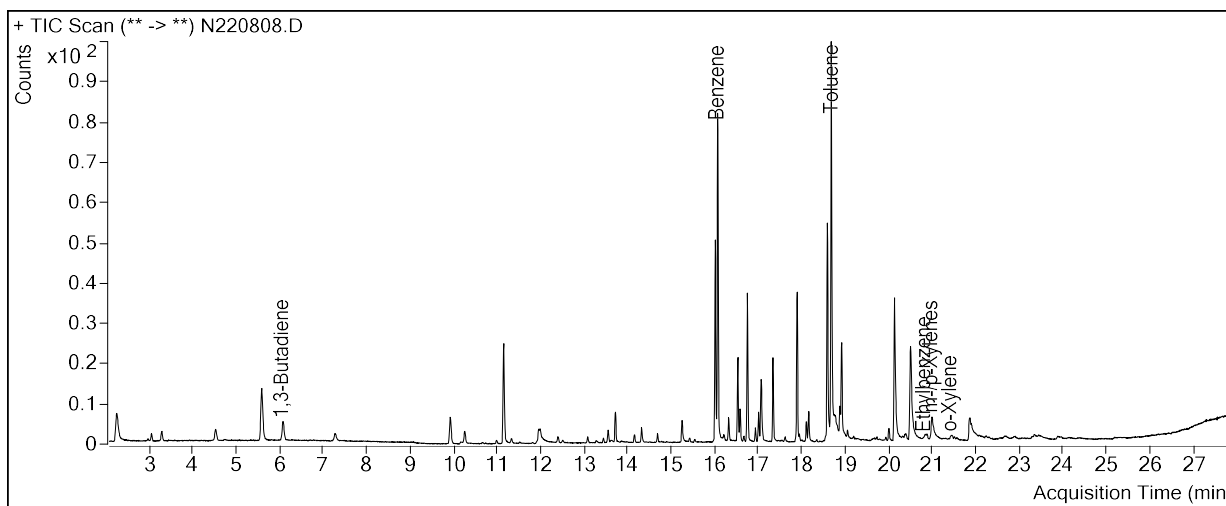


Sample Name : USSCL-PT05-S-20221206
Sample Info : C17157
Data File : N220807.D
Acquisition Date : 2023-01-04 19:44:30
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



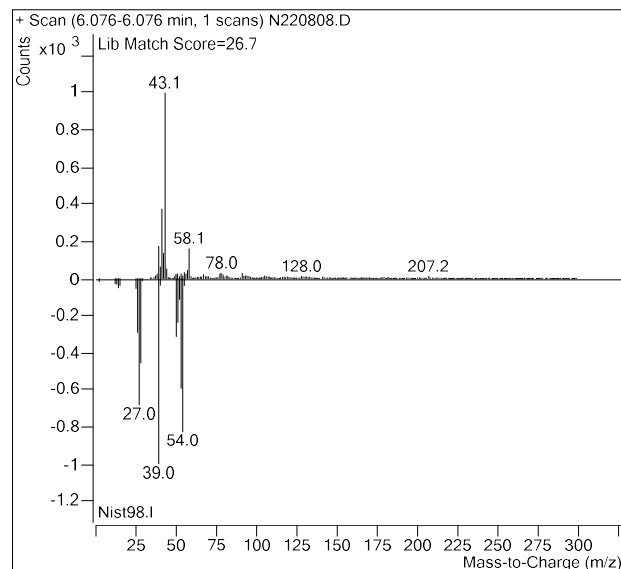
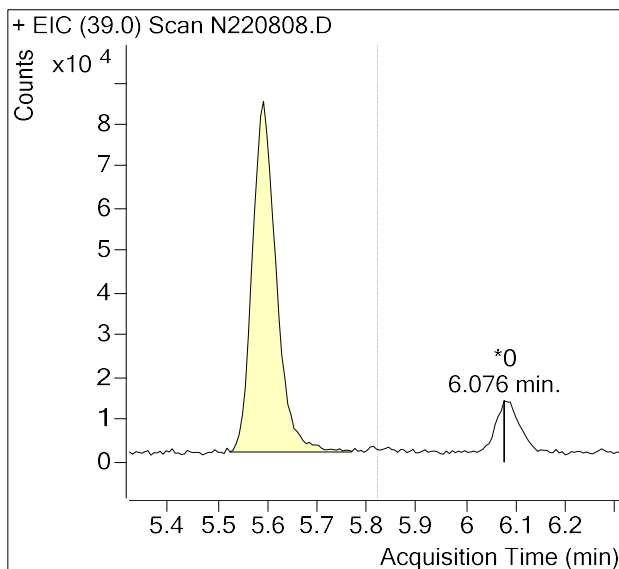
Sample Name : USSCL-PT06-S-20221206
Sample Info : C20490
Data File : N220808.D
Acquisition Date : 2023-01-04 20:24:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,711,588 | |
| Benzene | 16.03 | 2,653,777 | |
| Toluene-d8 (IS) | 18.55 | 1,592,396 | |
| Toluene | 18.64 | 3,202,518 | |
| Ethylbenzene | 20.70 | 17,476 | |
| m-/p-Xylenes | 20.89 | 95,475 | |
| o-Xylene | 21.32 | 35,453 | |

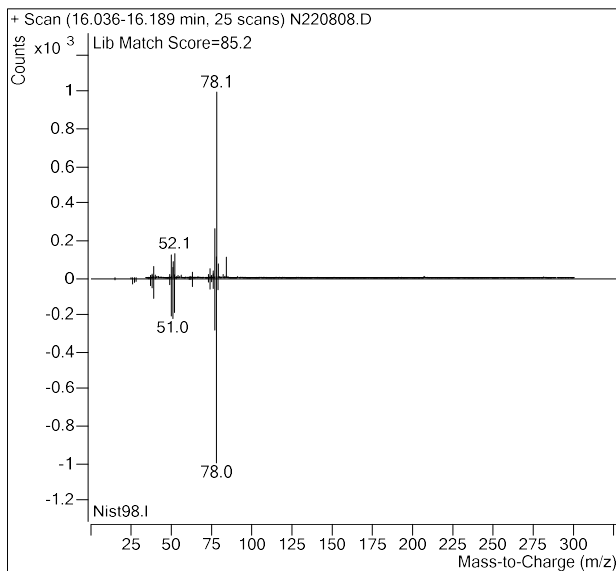
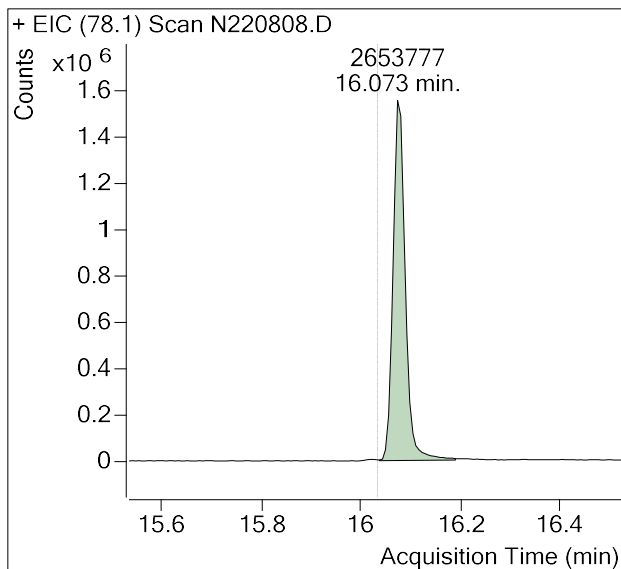
(m)=Manual Integration

1,3-Butadiene

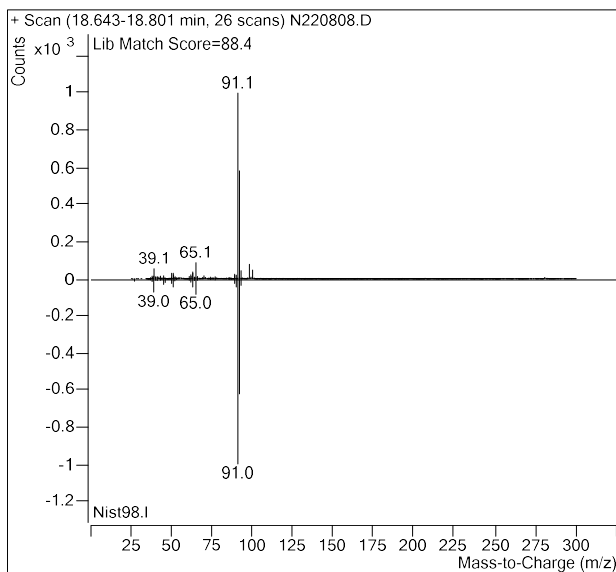
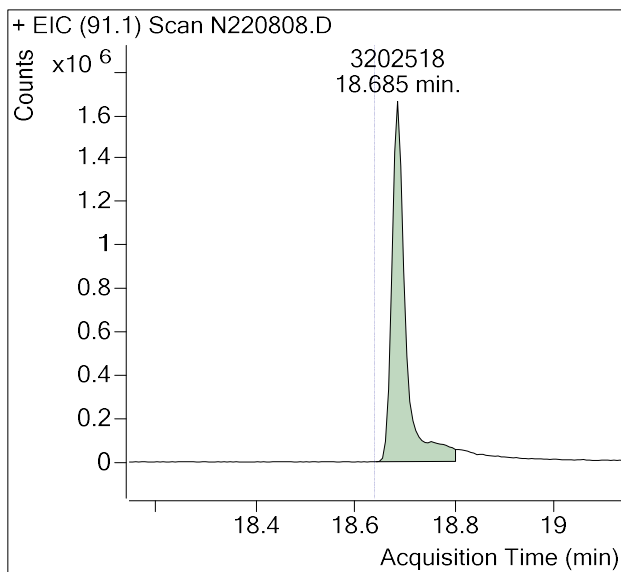


Sample Name : USSCL-PT06-S-20221206
Sample Info : C20490
Data File : N220808.D
Acquisition Date : 2023-01-04 20:24:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

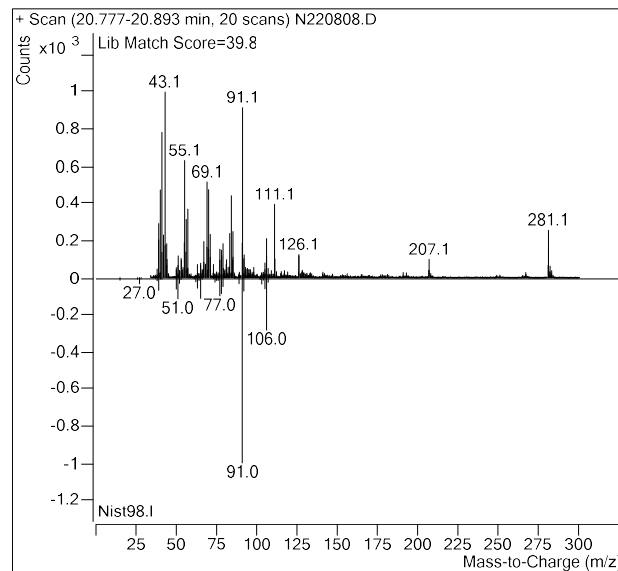
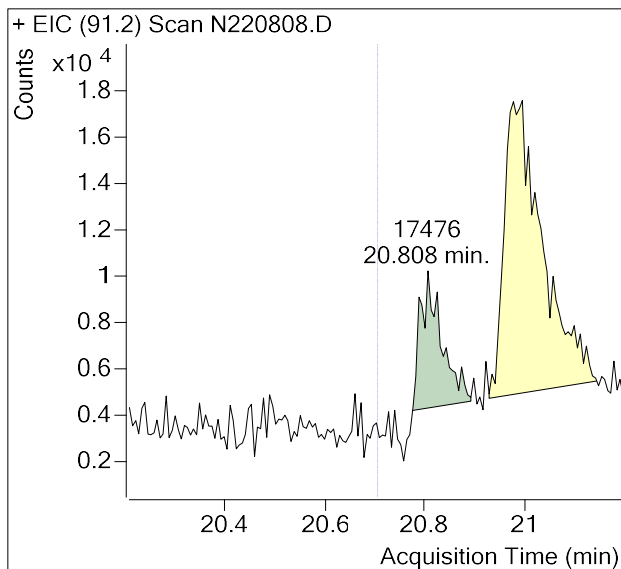


Toluene

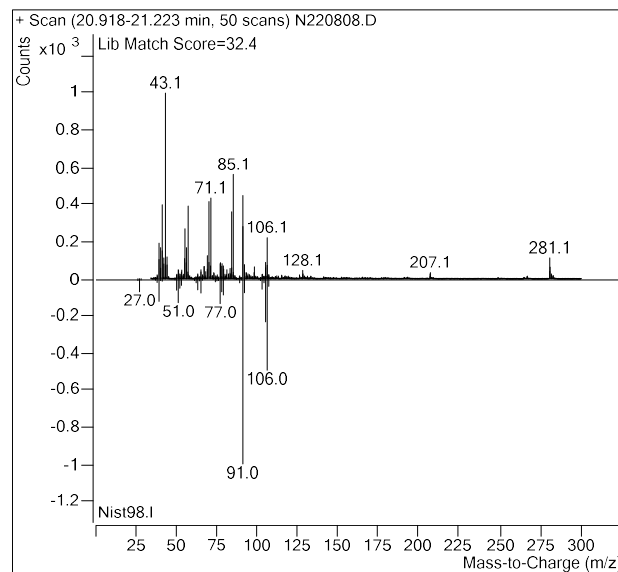
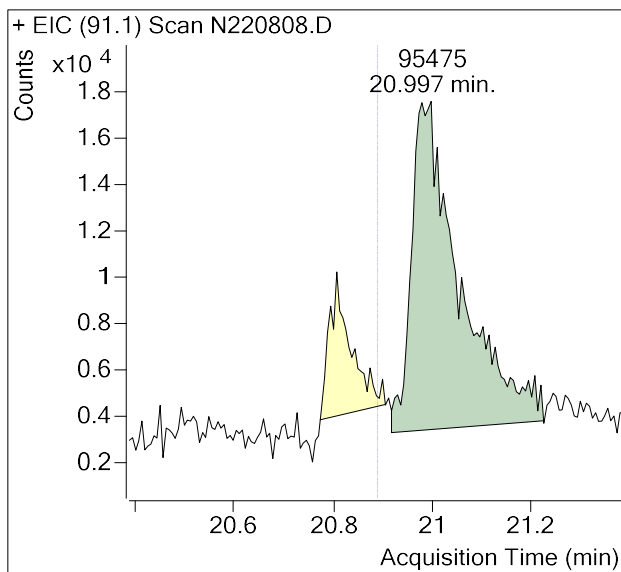


Sample Name : USSCL-PT06-S-20221206
Sample Info : C20490
Data File : N220808.D
Acquisition Date : 2023-01-04 20:24:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

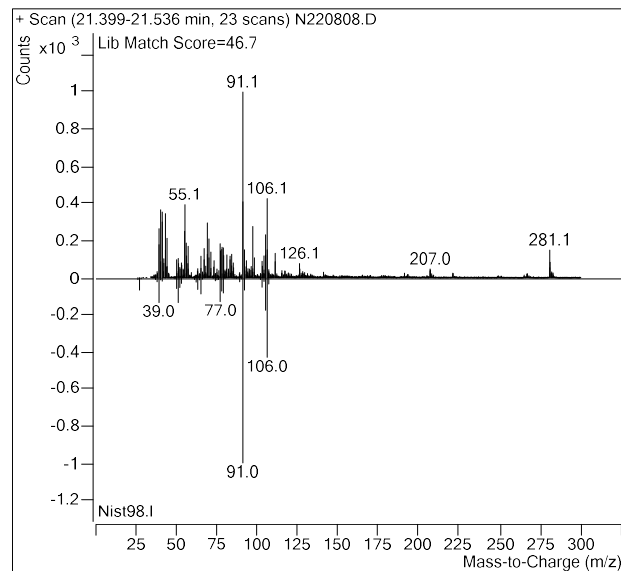
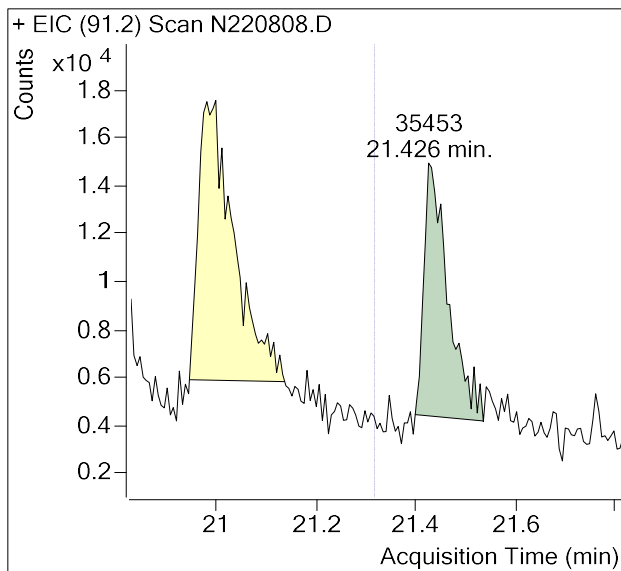


m-/p-Xylenes

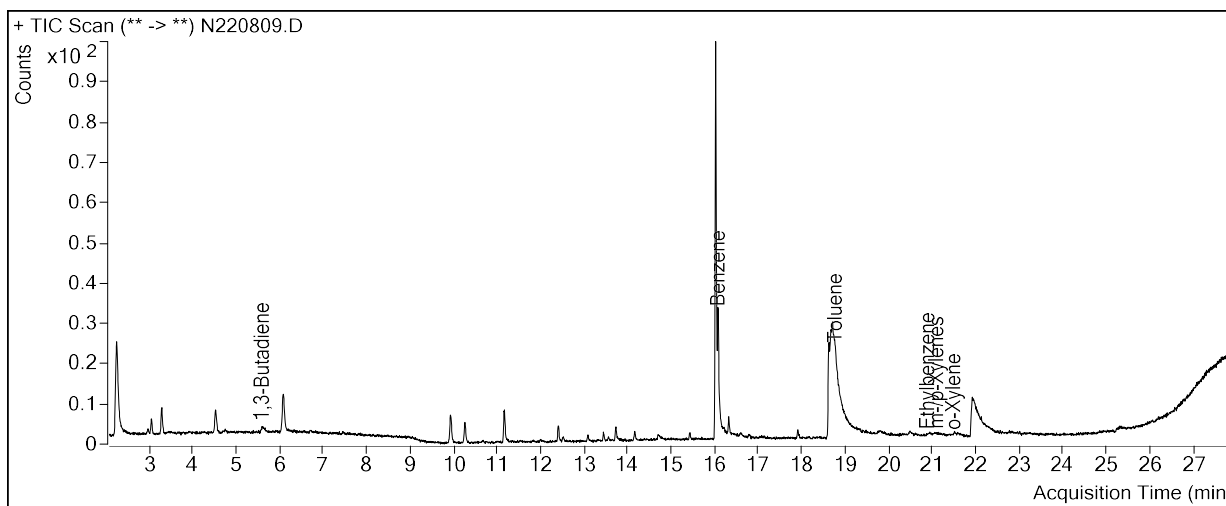


Sample Name : USSCL-PT06-S-20221206
Sample Info : C20490
Data File : N220808.D
Acquisition Date : 2023-01-04 20:24:20
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



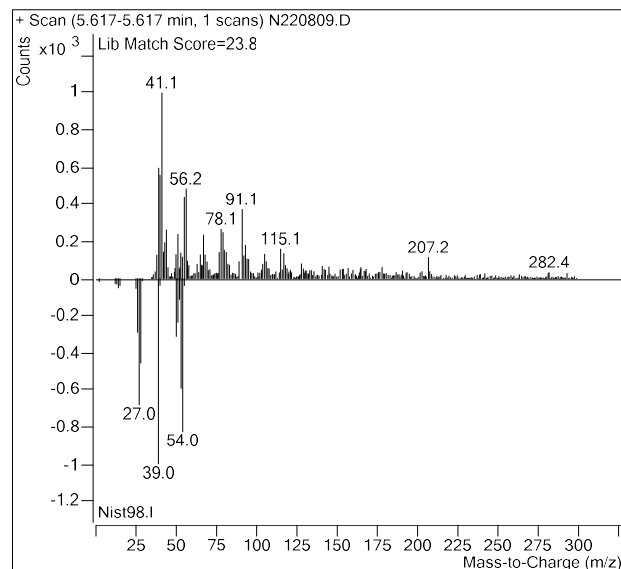
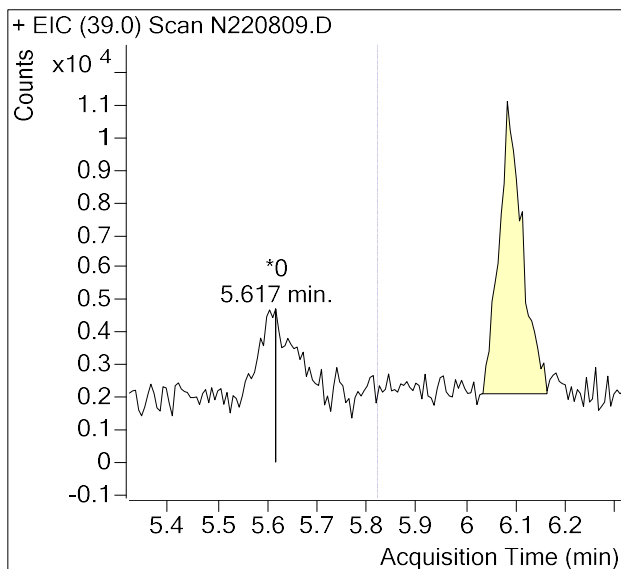
Sample Name : USSCL-PT07-S-20221206
Sample Info : C20505
Data File : N220809.D
Acquisition Date : 2023-01-04 21:04:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,562,777 | |
| Benzene | 16.03 | 333,387 | |
| Toluene-d8 (IS) | 18.55 | 1,467,390 | |
| Toluene | 18.64 | 641,645 | |
| Ethylbenzene | 20.70 | 12,304 | |
| m-/p-Xylenes | 20.89 | 43,408 | |
| o-Xylene | 21.32 | 3,317 | m |

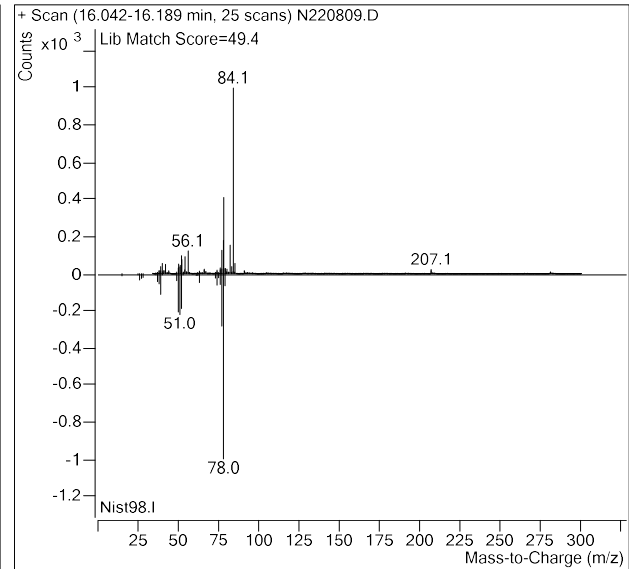
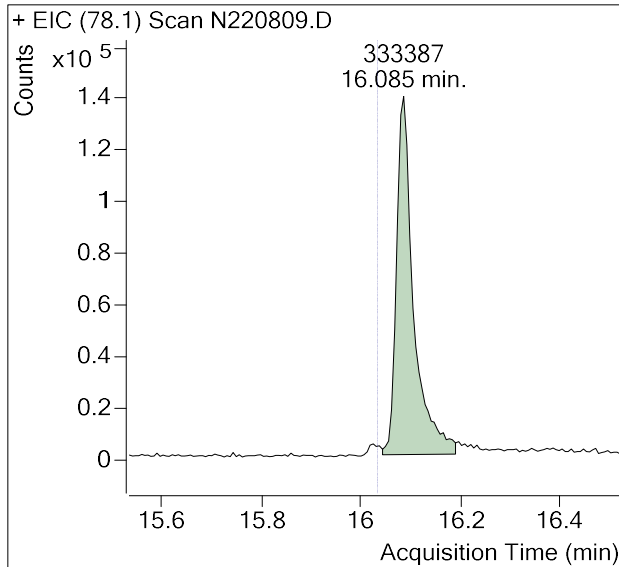
(m)=Manual Integration

1,3-Butadiene

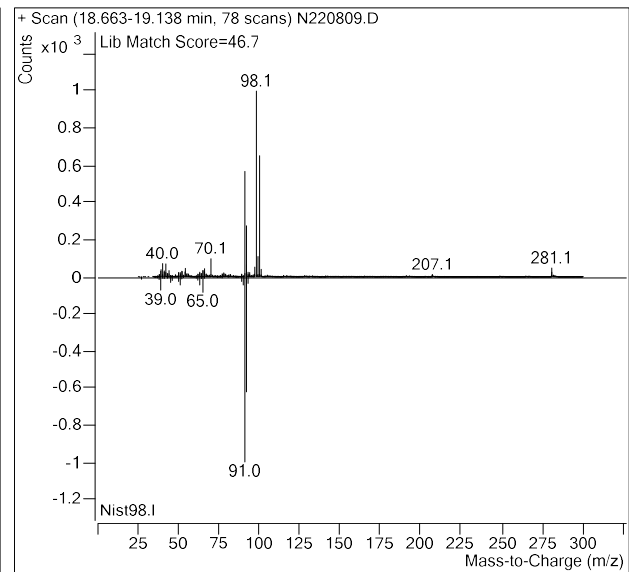
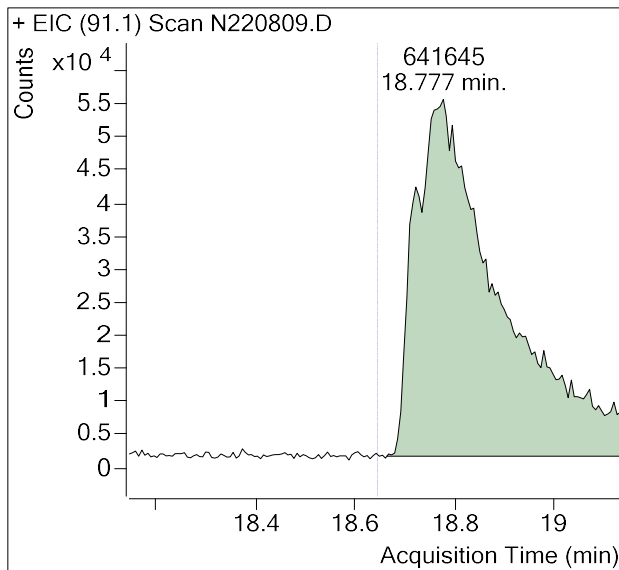


Sample Name : USSCL-PT07-S-20221206
Sample Info : C20505
Data File : N220809.D
Acquisition Date : 2023-01-04 21:04:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

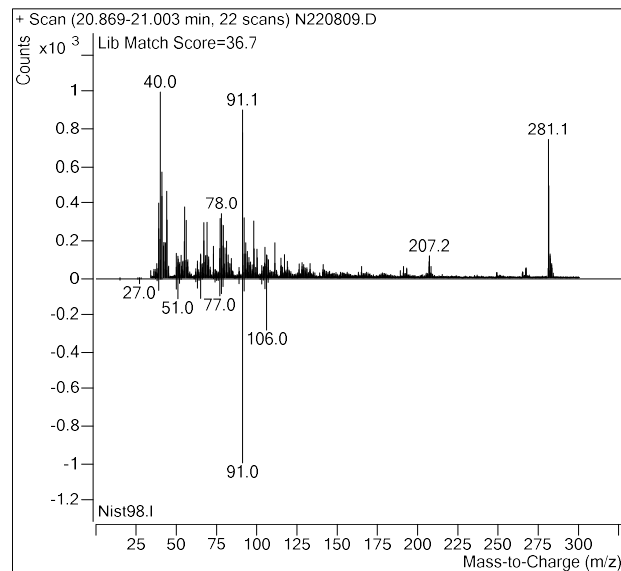
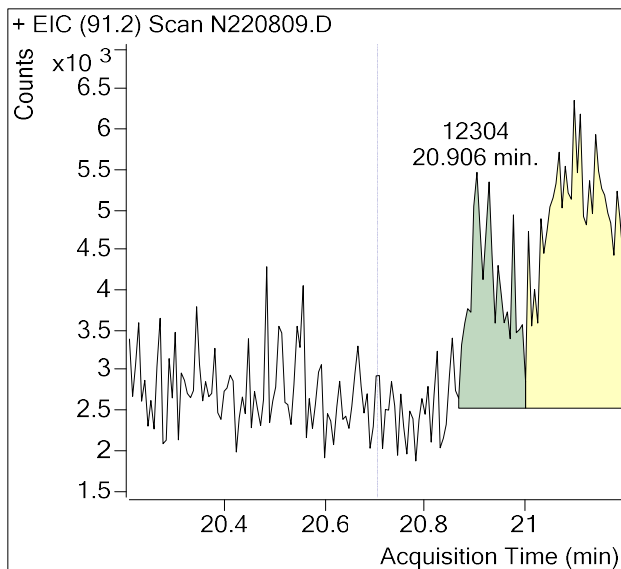


Toluene

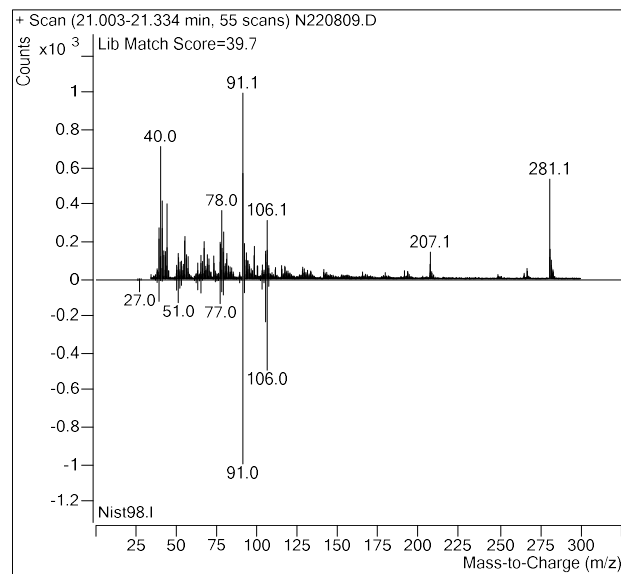
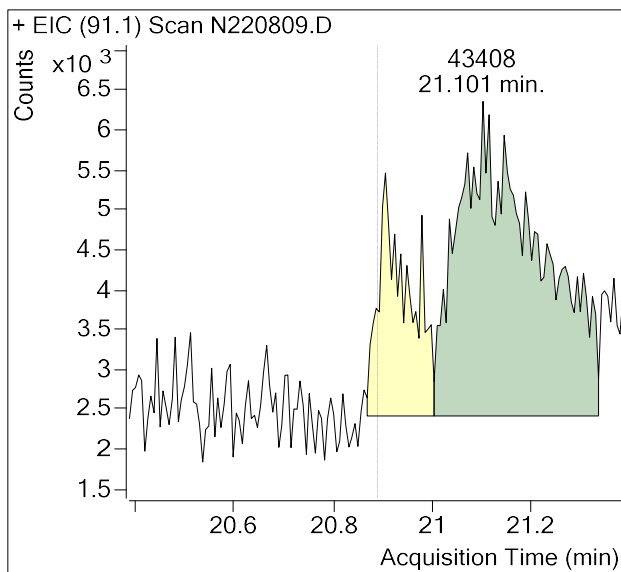


Sample Name : USSCL-PT07-S-20221206
Sample Info : C20505
Data File : N220809.D
Acquisition Date : 2023-01-04 21:04:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

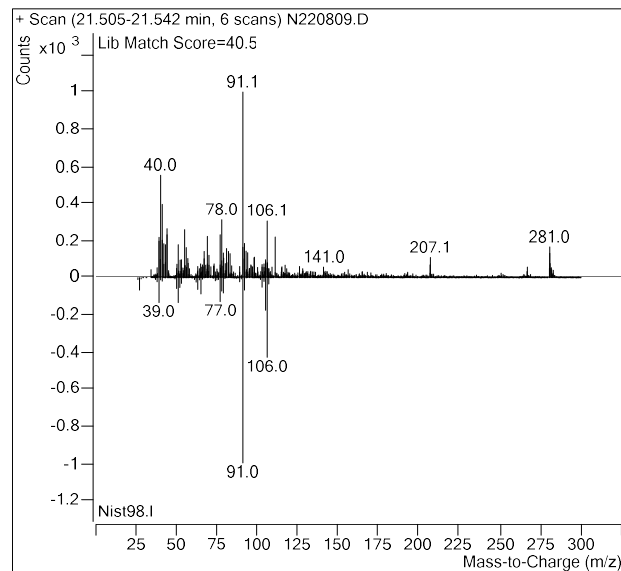
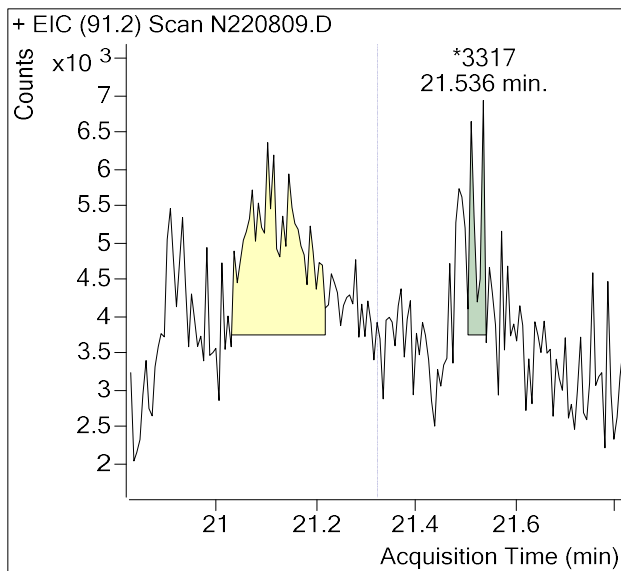


m-/p-Xylenes

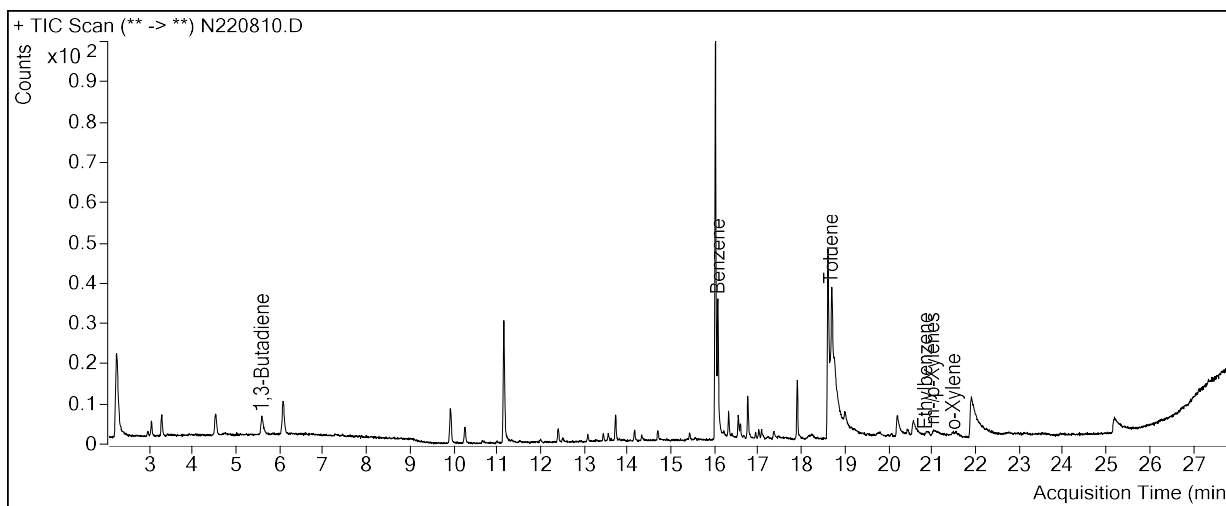


Sample Name : USSCL-PT07-S-20221206
Sample Info : C20505
Data File : N220809.D
Acquisition Date : 2023-01-04 21:04:11
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



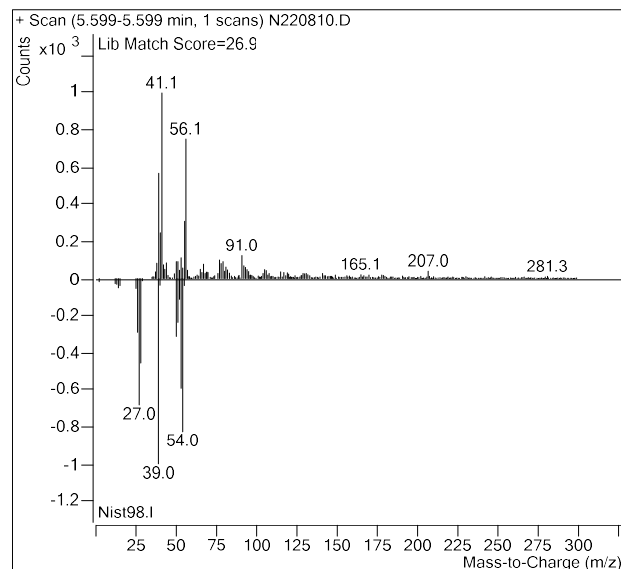
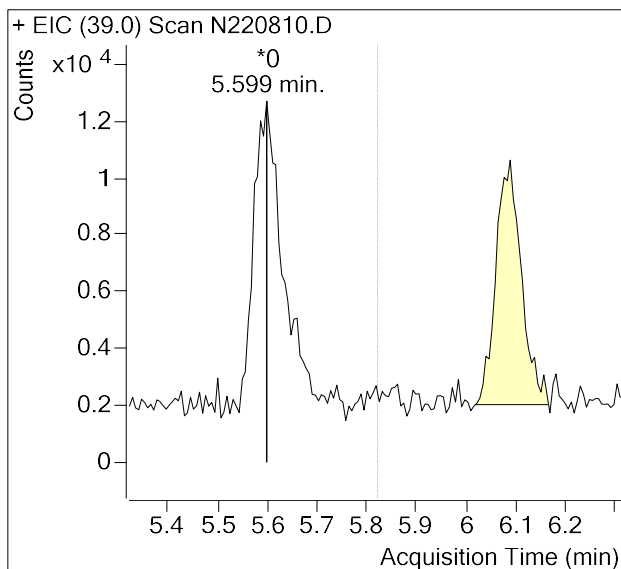
Sample Name : USSCL-PT08-S-20221206
Sample Info : B50926
Data File : N220810.D
Acquisition Date : 2023-01-04 21:44:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,586,240 | |
| Benzene | 16.03 | 453,428 | |
| Toluene-d8 (IS) | 18.55 | 1,491,570 | |
| Toluene | 18.64 | 698,198 | m |
| Ethylbenzene | 20.70 | 14,458 | m |
| m-/p-Xylenes | 20.89 | 27,553 | |
| o-Xylene | 21.32 | 3,853 | |

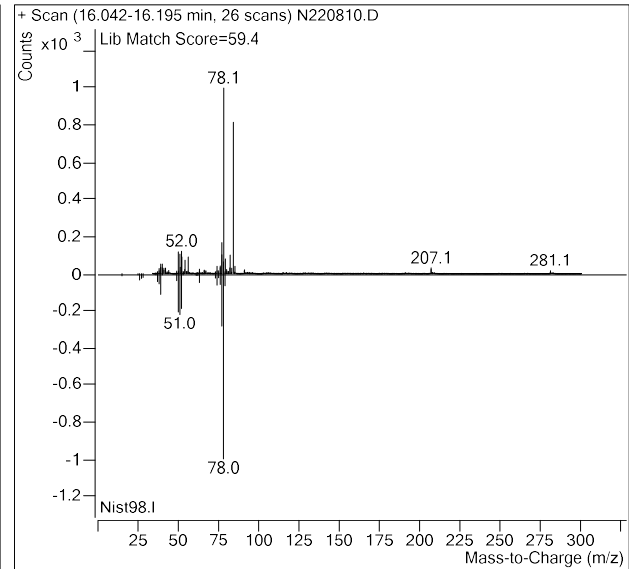
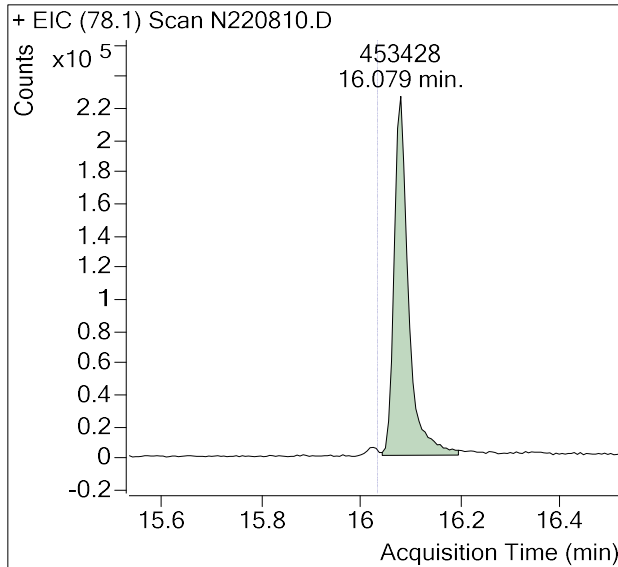
(m)=Manual Integration

1,3-Butadiene

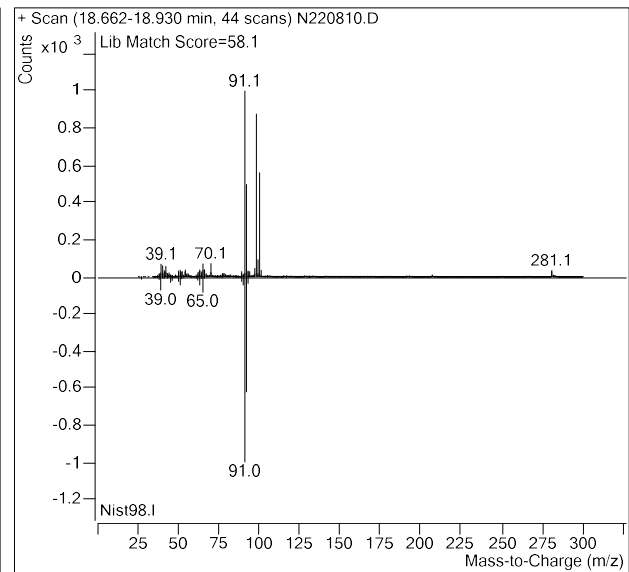
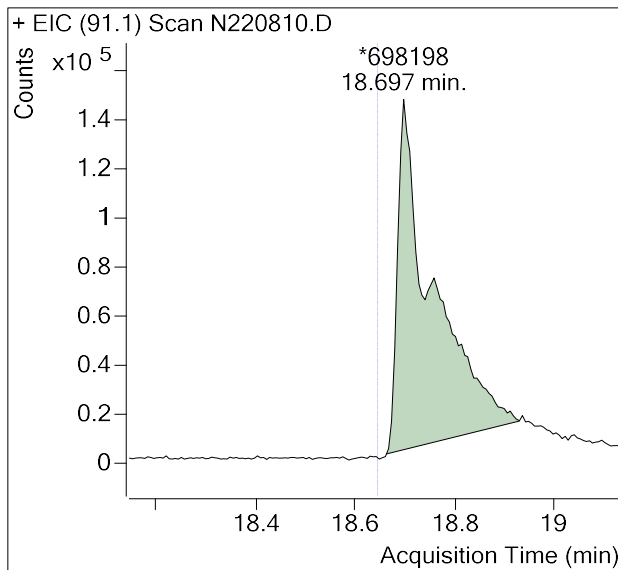


Sample Name : USSCL-PT08-S-20221206
Sample Info : B50926
Data File : N220810.D
Acquisition Date : 2023-01-04 21:44:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

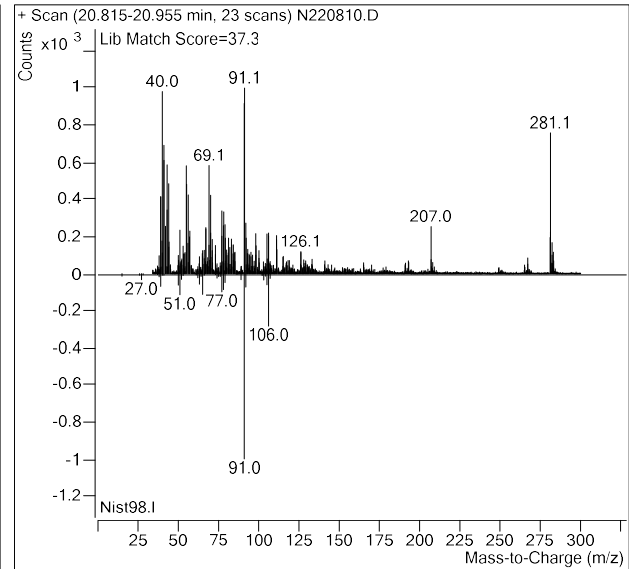
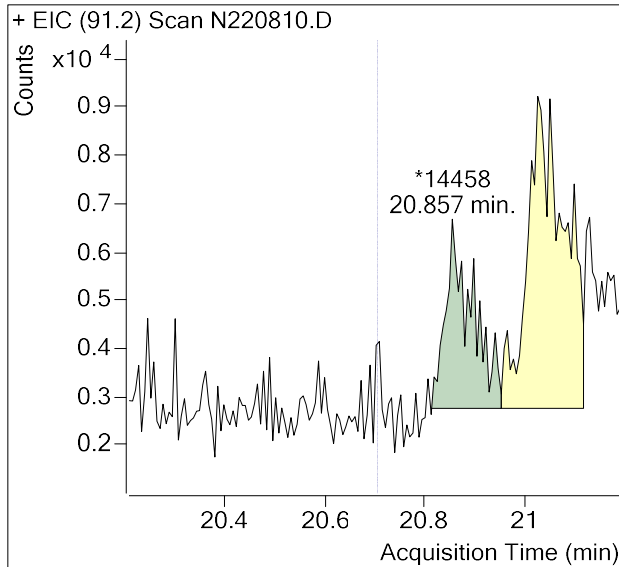


Toluene

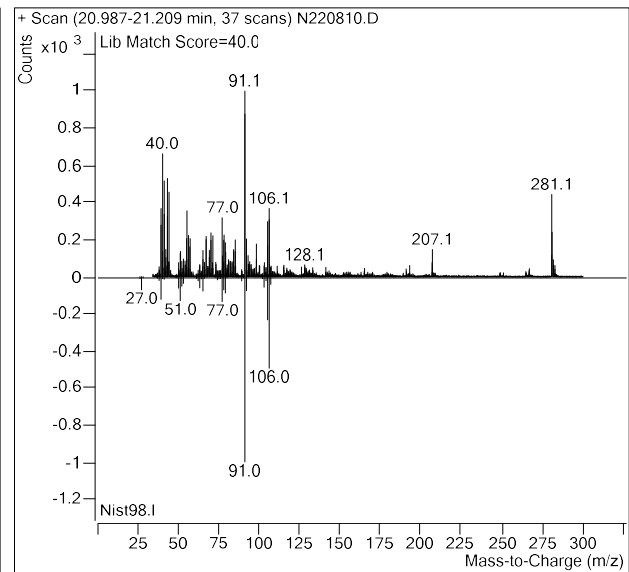
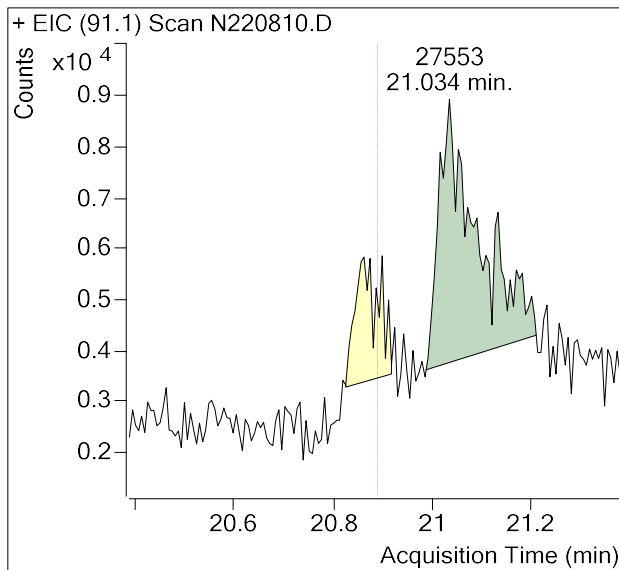


Sample Name : USSCL-PT08-S-20221206
Sample Info : B50926
Data File : N220810.D
Acquisition Date : 2023-01-04 21:44:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

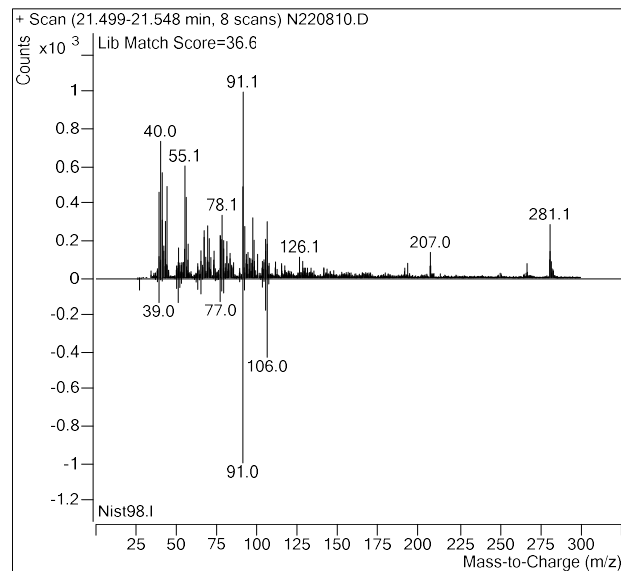
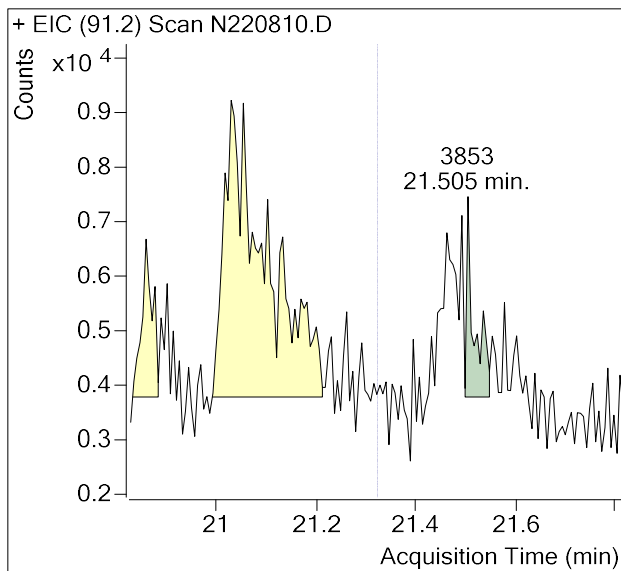


m-/p-Xylenes

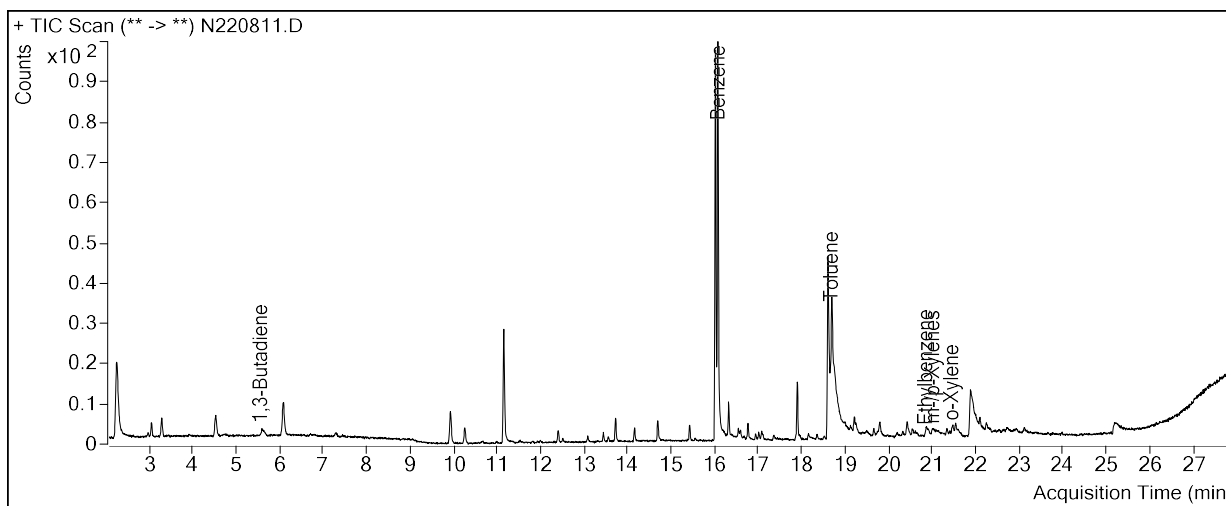


Sample Name : USSCL-PT08-S-20221206
Sample Info : B50926
Data File : N220810.D
Acquisition Date : 2023-01-04 21:44:01
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



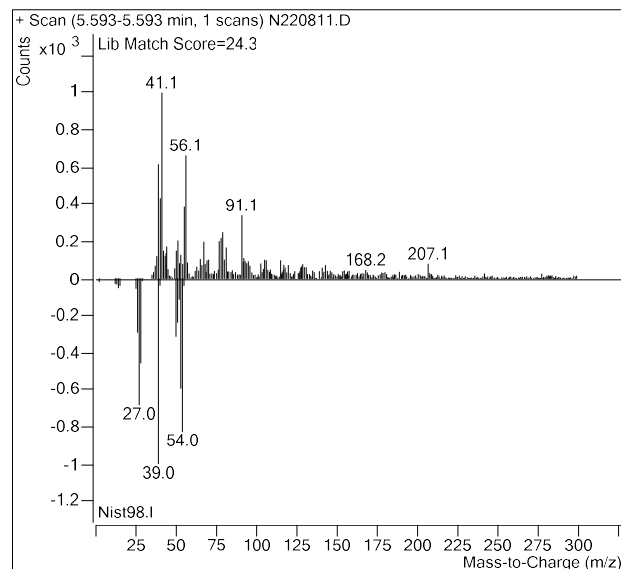
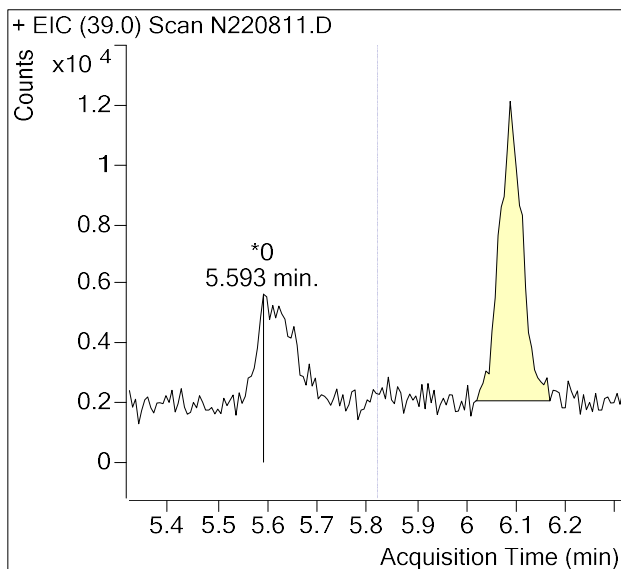
Sample Name : USSCL-PT09-S-20221206
Sample Info : B46775
Data File : N220811.D
Acquisition Date : 2023-01-04 22:23:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,619,128 | |
| Benzene | 16.03 | 1,488,931 | |
| Toluene-d8 (IS) | 18.55 | 1,504,850 | |
| Toluene | 18.64 | 867,790 | |
| Ethylbenzene | 20.70 | 25,297 | m |
| m-/p-Xylenes | 20.89 | 69,386 | m |
| o-Xylene | 21.32 | 25,334 | |

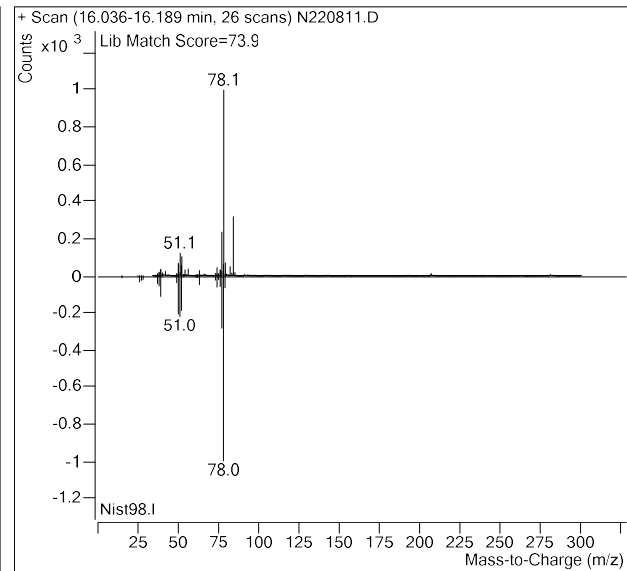
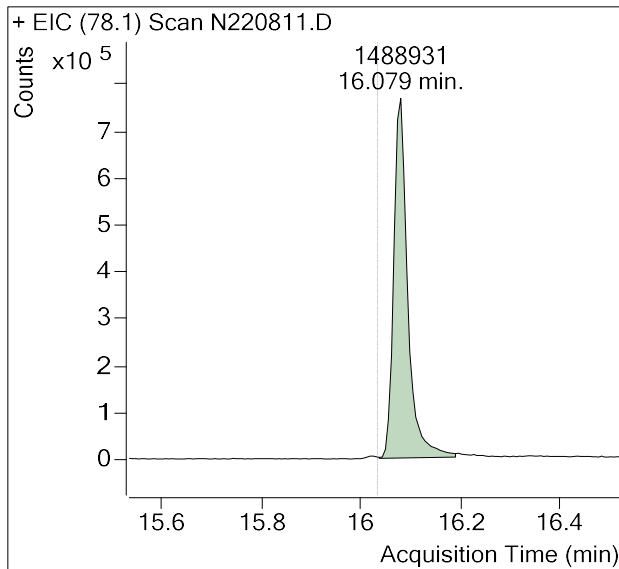
(m)=Manual Integration

1,3-Butadiene

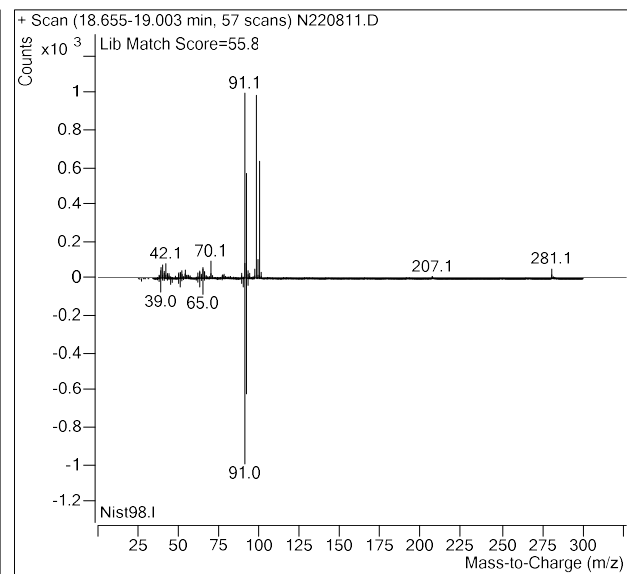
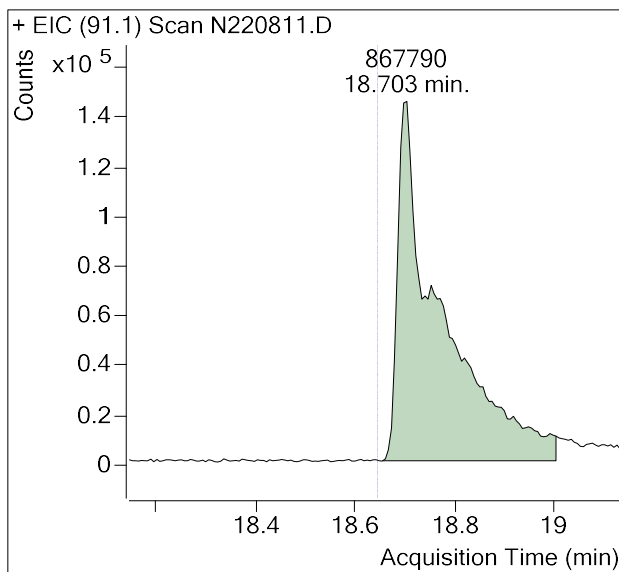


Sample Name : USSCL-PT09-S-20221206
Sample Info : B46775
Data File : N220811.D
Acquisition Date : 2023-01-04 22:23:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

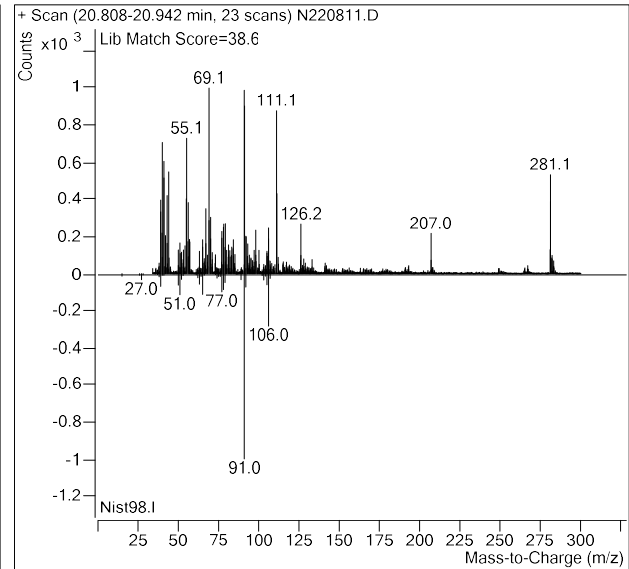
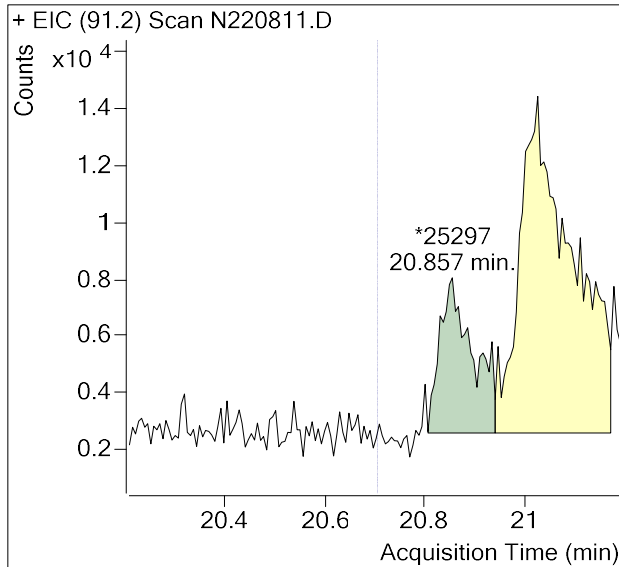


Toluene

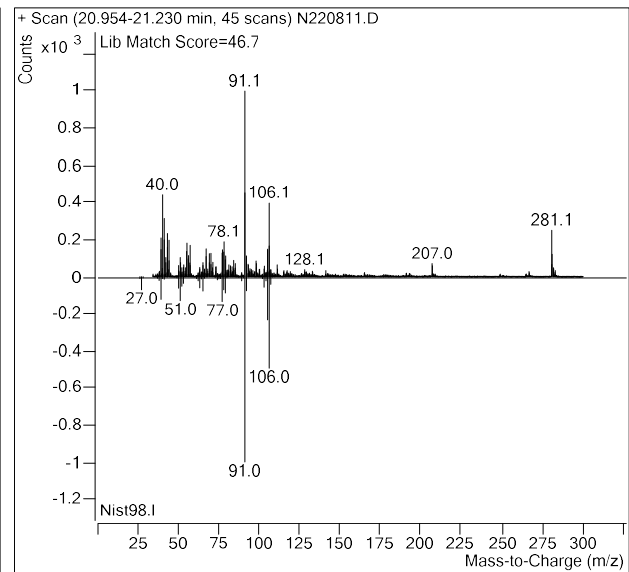
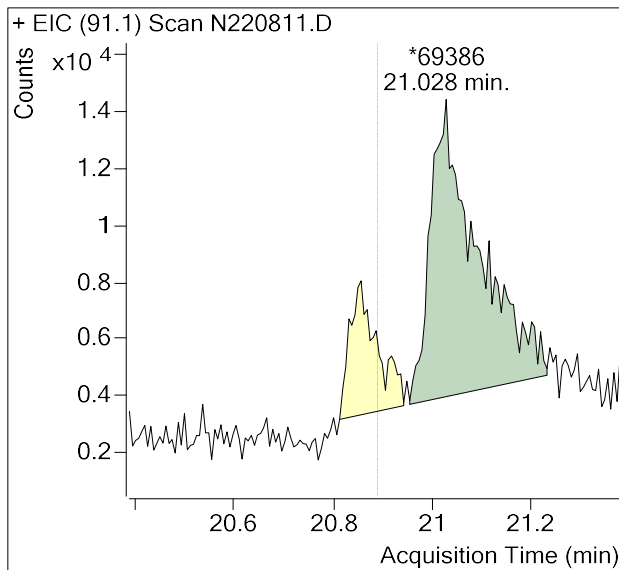


Sample Name : USSCL-PT09-S-20221206
Sample Info : B46775
Data File : N220811.D
Acquisition Date : 2023-01-04 22:23:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

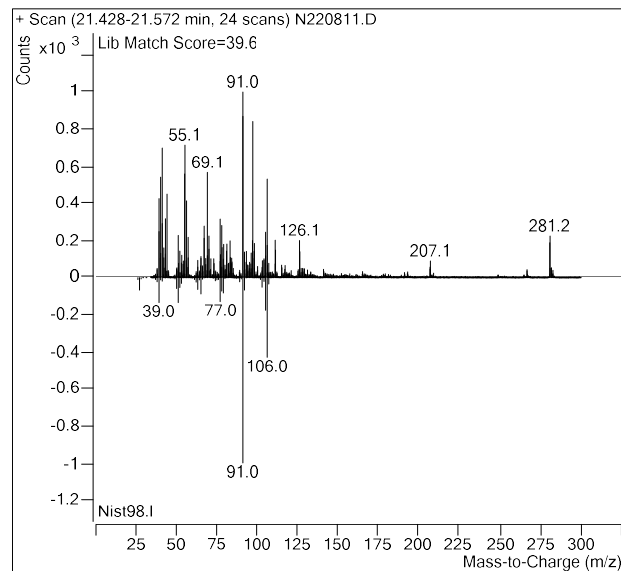
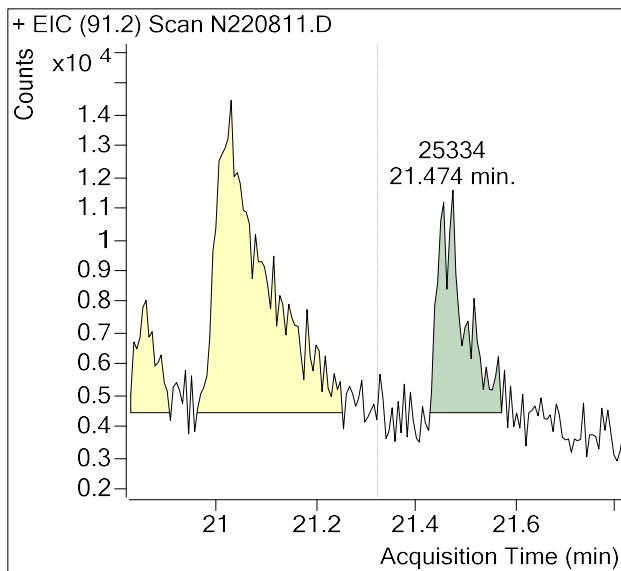


m-/p-Xylenes

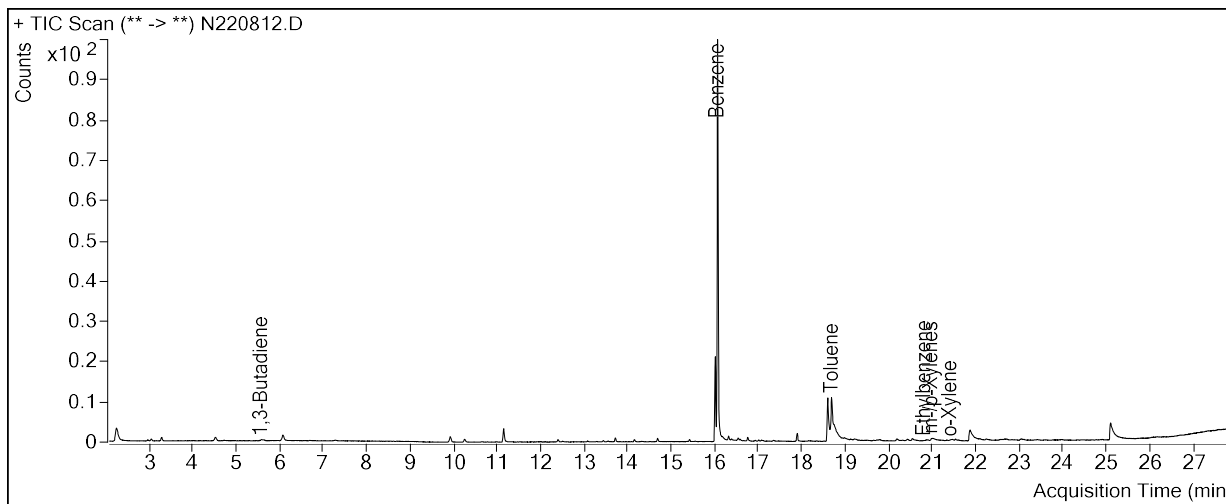


Sample Name : USSCL-PT09-S-20221206
Sample Info : B46775
Data File : N220811.D
Acquisition Date : 2023-01-04 22:23:51
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



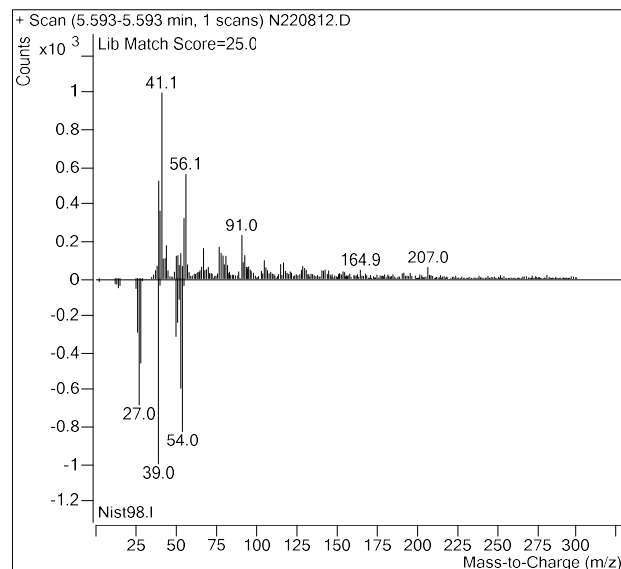
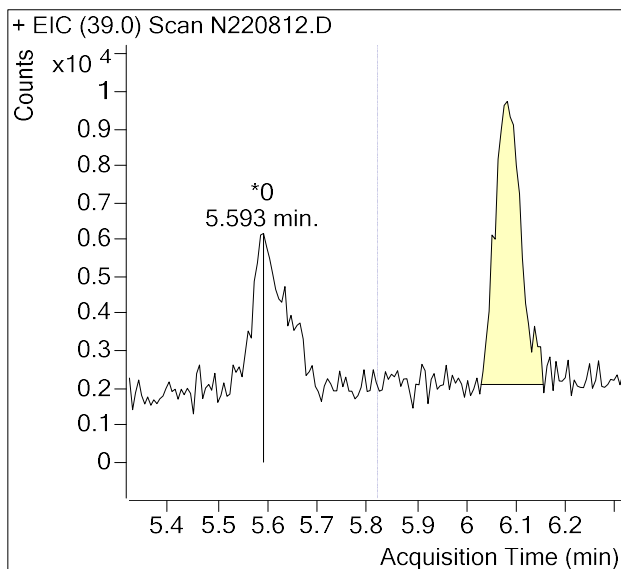
Sample Name : USSCL-PT10-S-20221206
Sample Info : C16112
Data File : N220812.D
Acquisition Date : 2023-01-04 23:03:41
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,744,938 | |
| Benzene | 16.03 | 7,733,407 | |
| Toluene-d8 (IS) | 18.55 | 1,534,585 | |
| Toluene | 18.64 | 1,422,651 | |
| Ethylbenzene | 20.70 | 24,254 | |
| m-/p-Xylenes | 20.89 | 120,812 | |
| o-Xylene | 21.32 | 32,128 | |

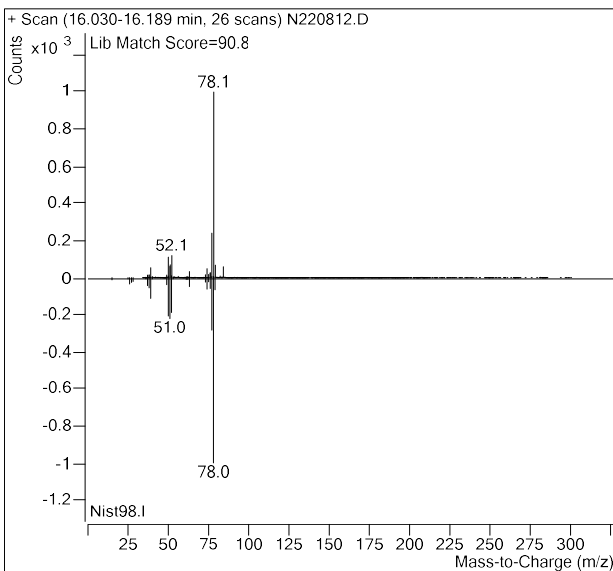
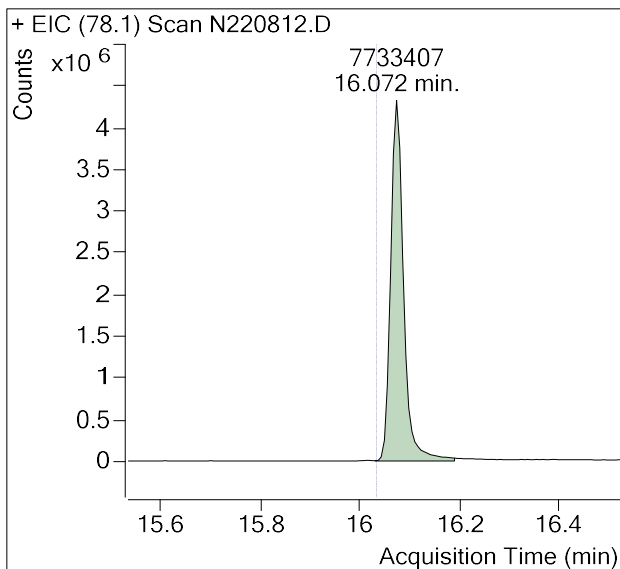
(m)=Manual Integration

1,3-Butadiene

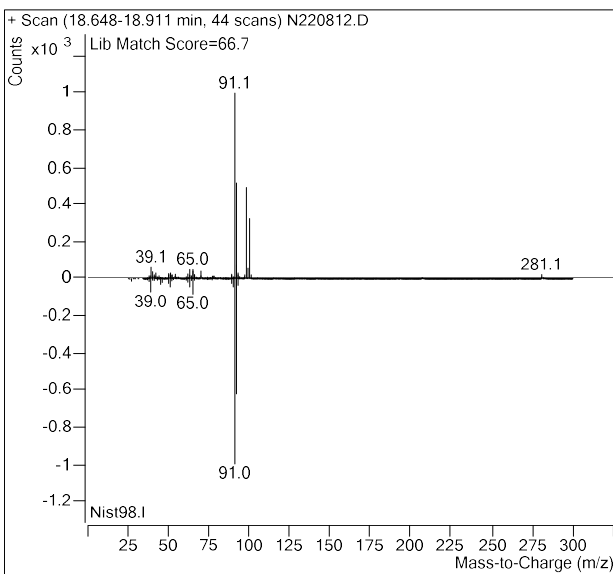
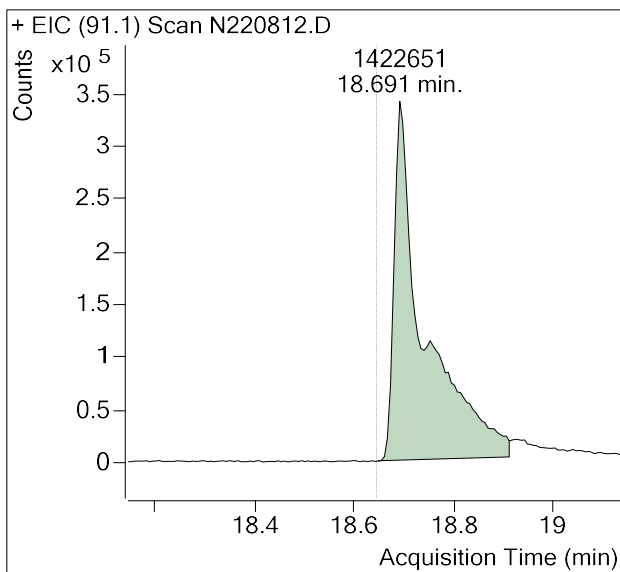


Sample Name : USSCL-PT10-S-20221206
Sample Info : C16112
Data File : N220812.D
Acquisition Date : 2023-01-04 23:03:41
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

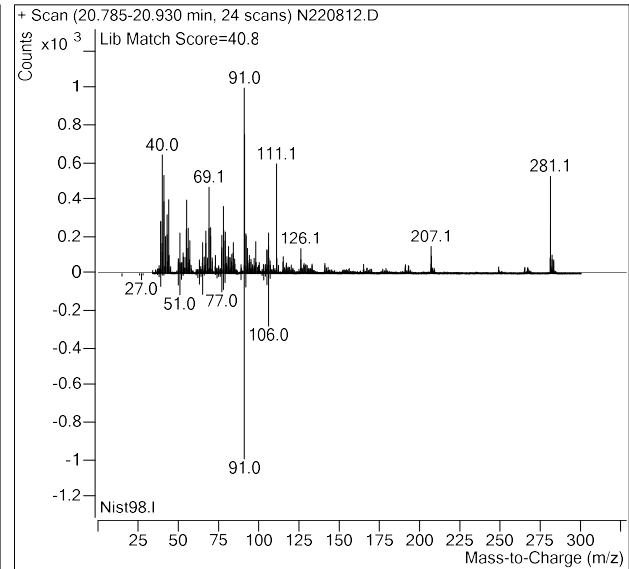
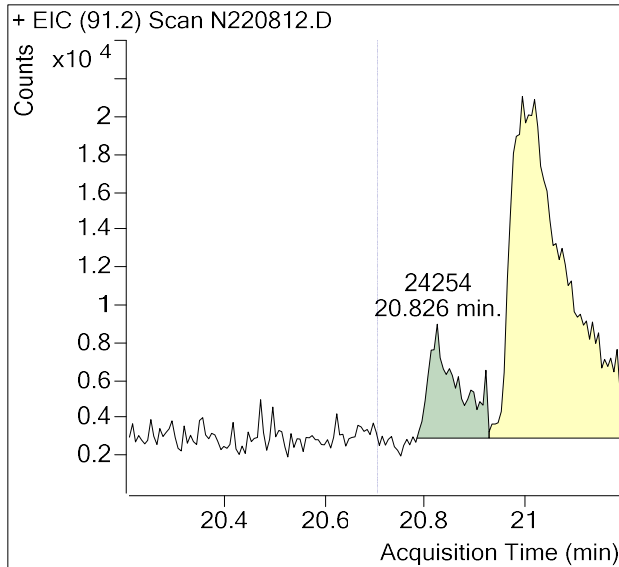


Toluene

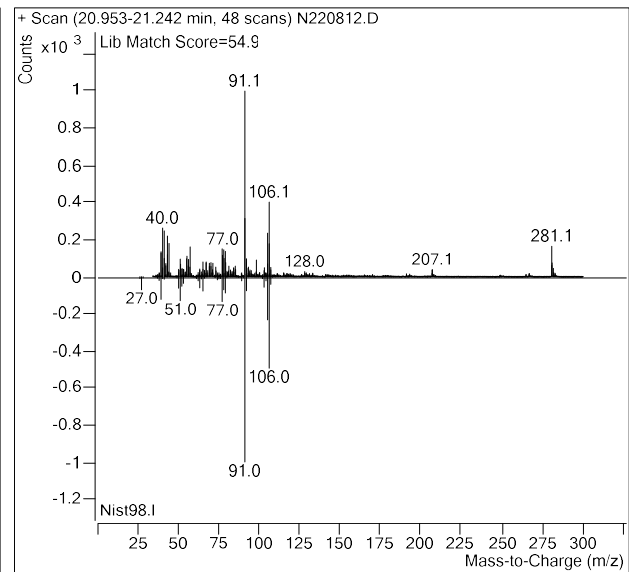
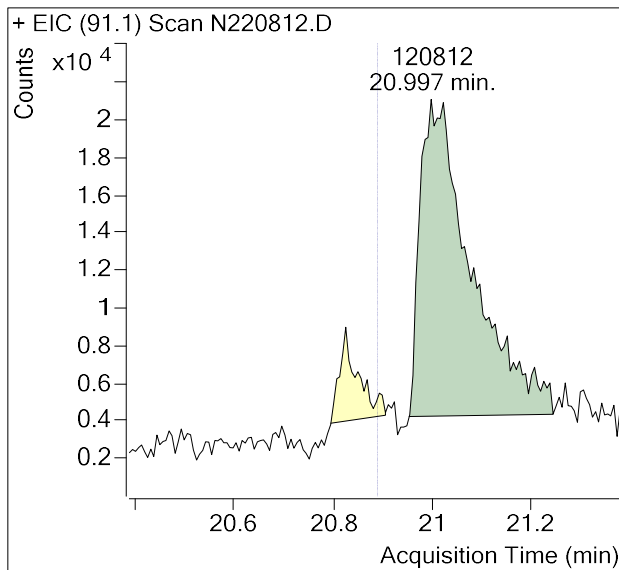


Sample Name : USSCL-PT10-S-20221206
Sample Info : C16112
Data File : N220812.D
Acquisition Date : 2023-01-04 23:03:41
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

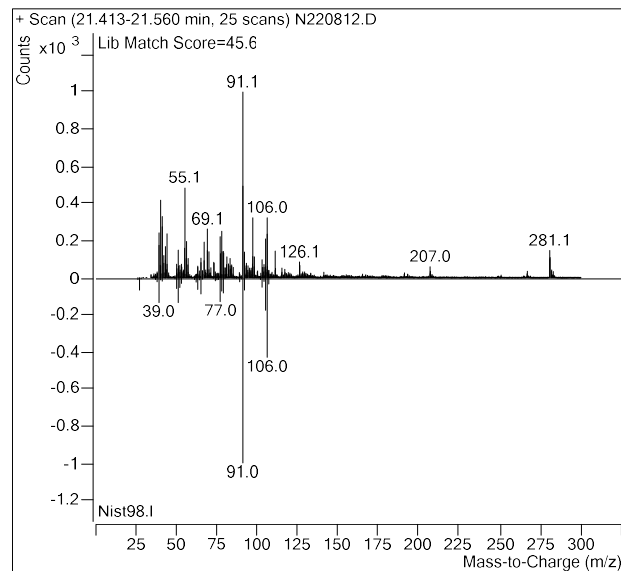
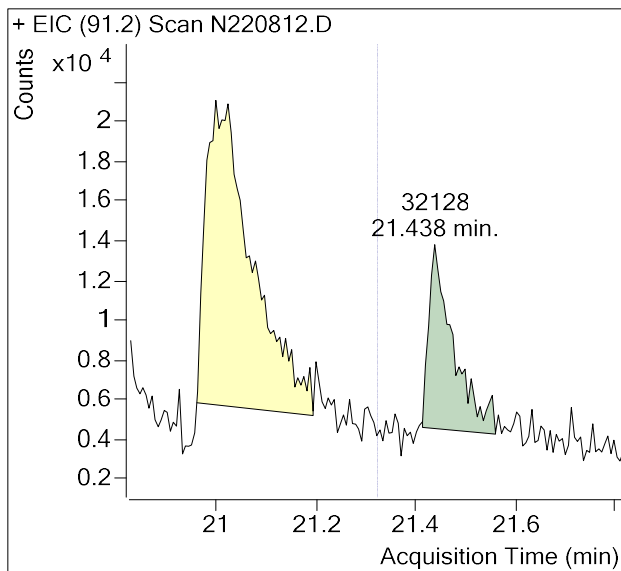


m-/p-Xylenes

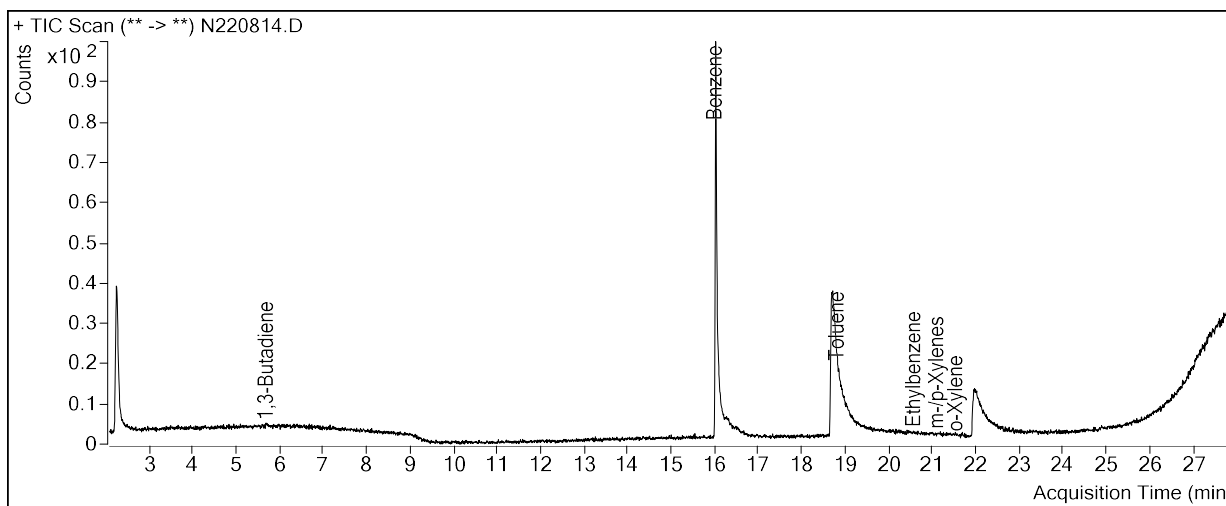


Sample Name : USSCL-PT10-S-20221206
Sample Info : C16112
Data File : N220812.D
Acquisition Date : 2023-01-04 23:03:41
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



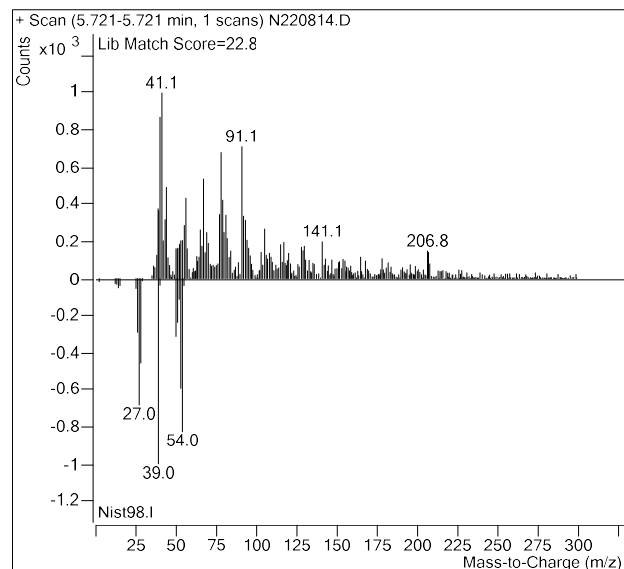
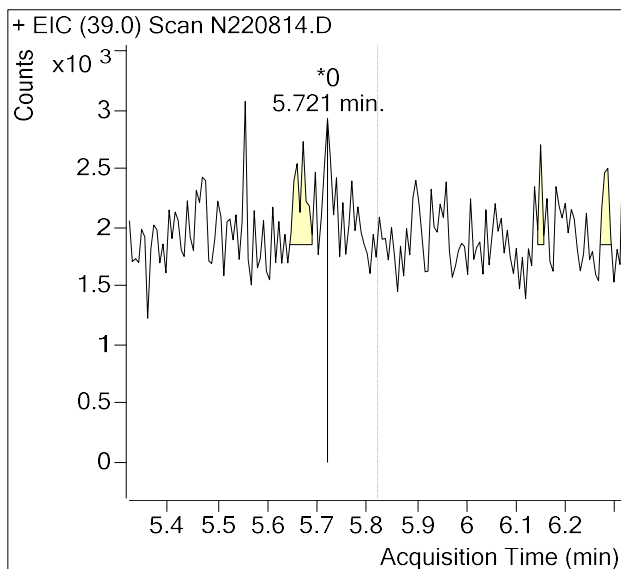
Sample Name : USSCL-PT10-B-20221206
Sample Info : B19710
Data File : N220814.D
Acquisition Date : 2023-01-05 00:23:21
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,389,152 | |
| Benzene | 16.03 | 13,247 | |
| Toluene-d8 (IS) | 18.55 | 1,344,090 | |
| Toluene | 18.64 | 5,695 | |
| Ethylbenzene | 20.70 | 722 | |
| m-/p-Xylenes | 20.89 | 317 | |
| o-Xylene | 21.32 | 1,467 | m |

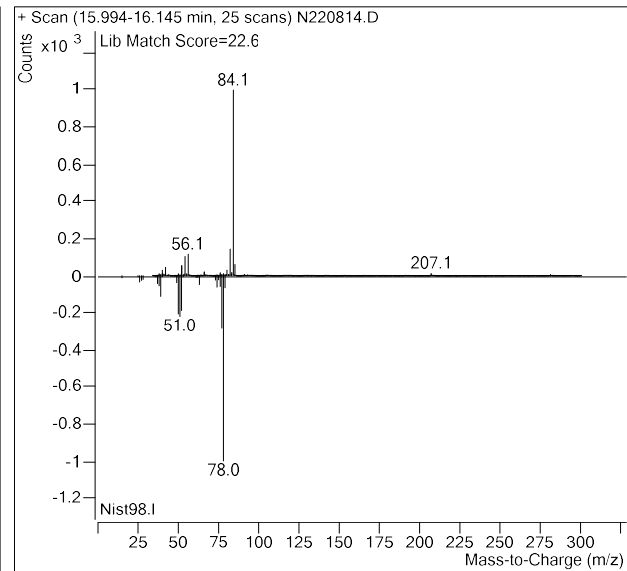
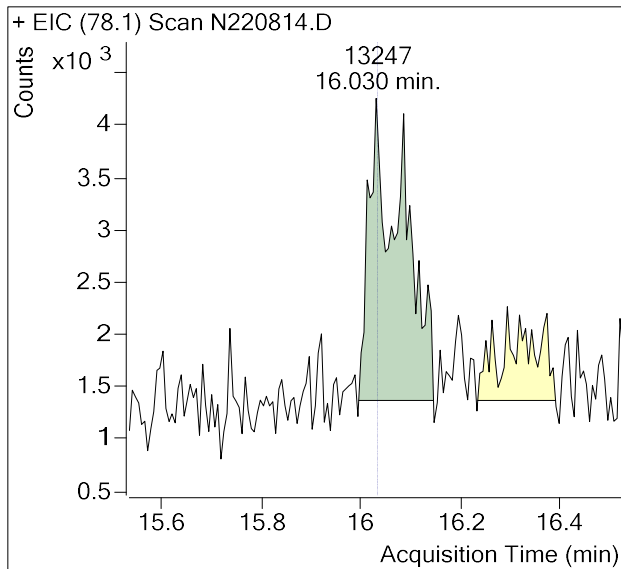
(m)=Manual Integration

1,3-Butadiene

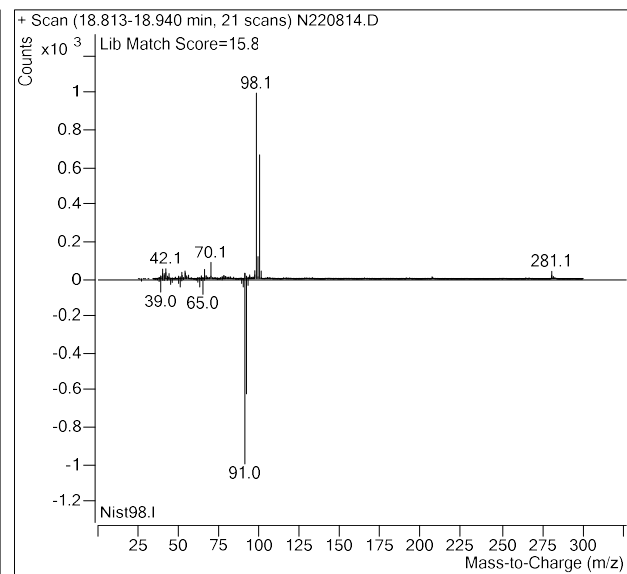
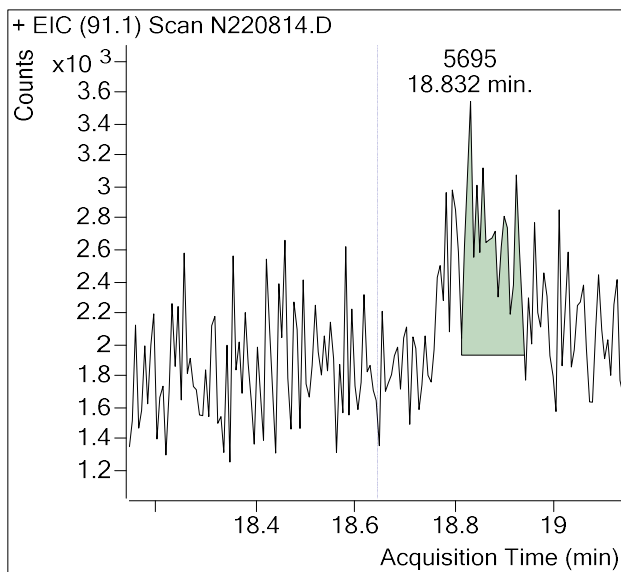


Sample Name : USSCL-PT10-B-20221206
Sample Info : B19710
Data File : N220814.D
Acquisition Date : 2023-01-05 00:23:21
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

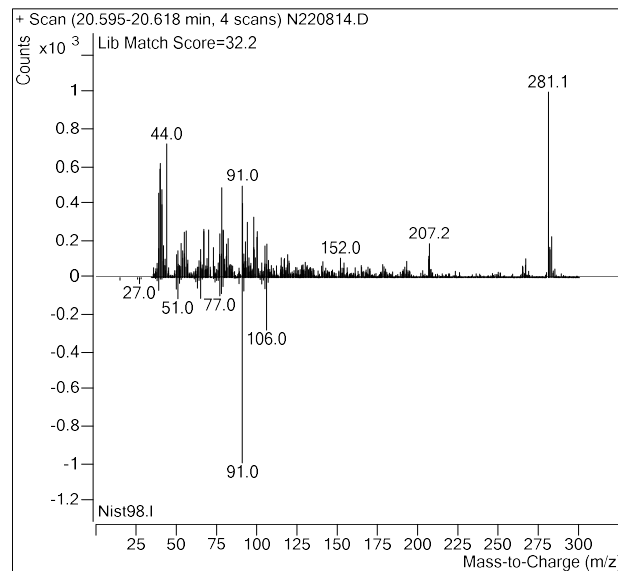
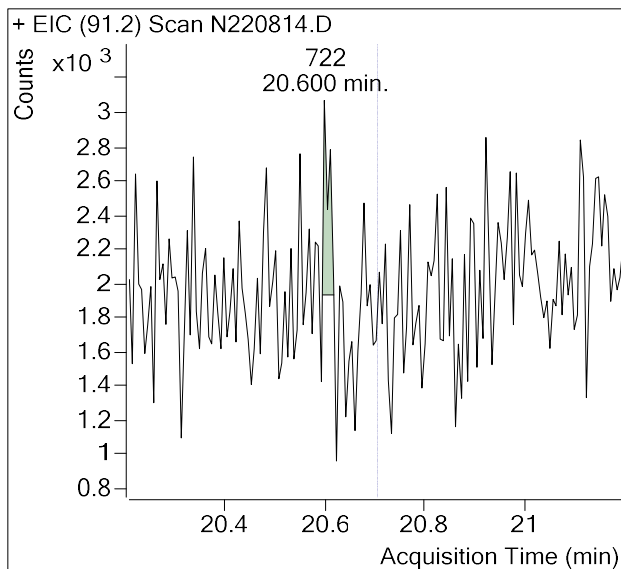


Toluene

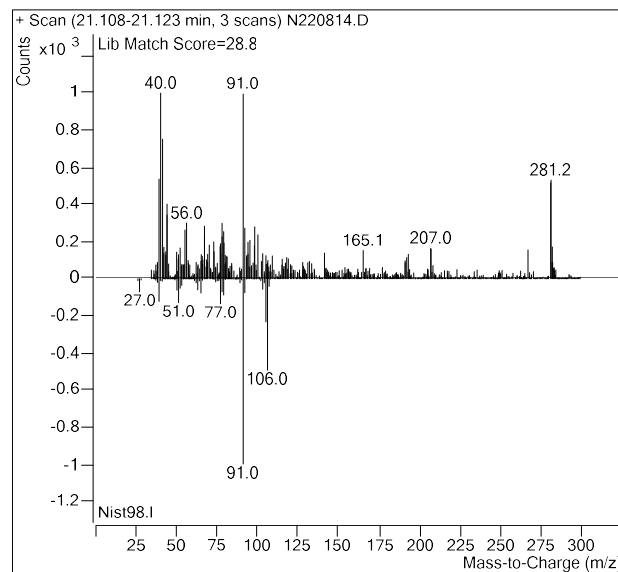
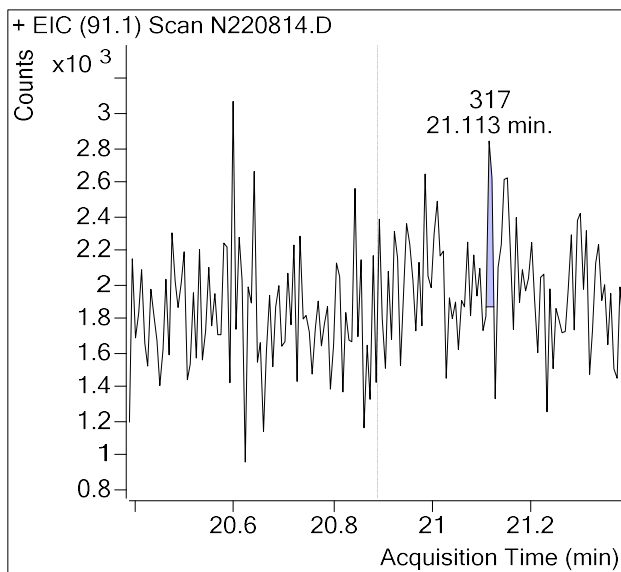


Sample Name : USSCL-PT10-B-20221206
Sample Info : B19710
Data File : N220814.D
Acquisition Date : 2023-01-05 00:23:21
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

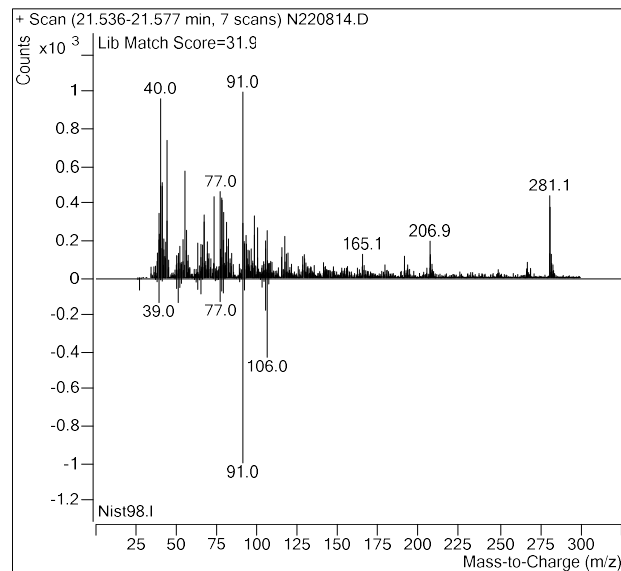
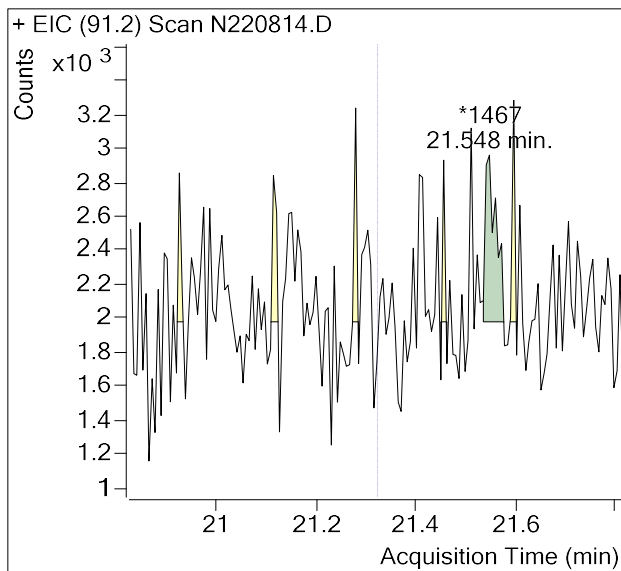


m-/p-Xylenes

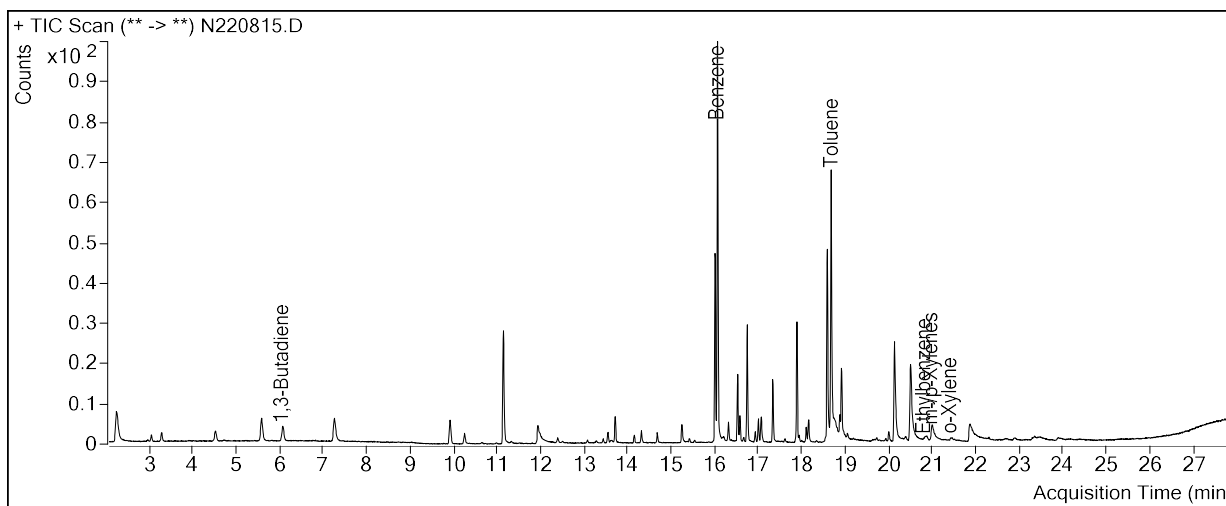


Sample Name : USSCL-PT10-B-20221206
Sample Info : B19710
Data File : N220814.D
Acquisition Date : 2023-01-05 00:23:21
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



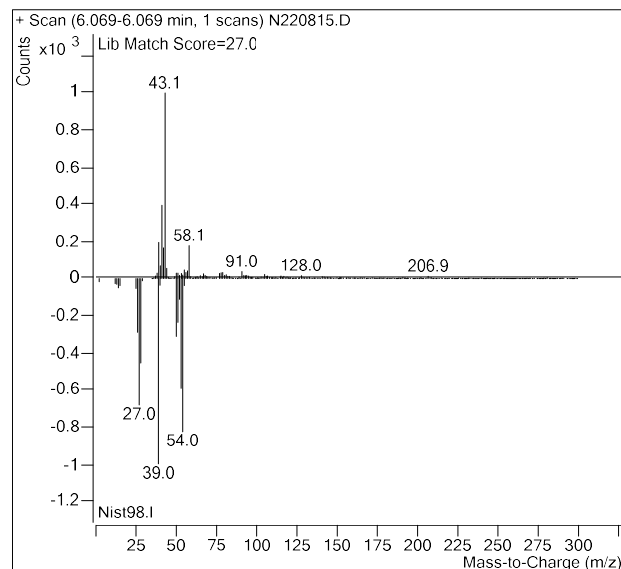
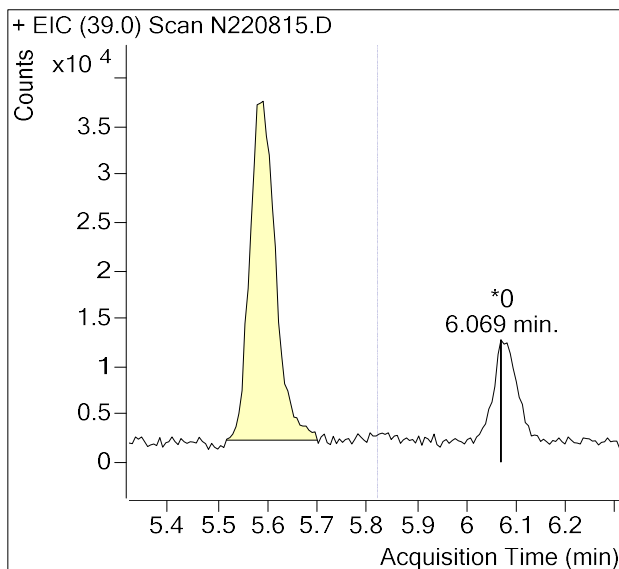
Sample Name : USSCL-PT11-S-20221206
Sample Info : B37655
Data File : N220815.D
Acquisition Date : 2023-01-05 01:03:10
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,768,946 | |
| Benzene | 16.03 | 3,516,895 | |
| Toluene-d8 (IS) | 18.55 | 1,523,725 | |
| Toluene | 18.64 | 2,429,539 | |
| Ethylbenzene | 20.70 | 31,550 | m |
| m-/p-Xylenes | 20.89 | 87,381 | m |
| o-Xylene | 21.32 | 24,403 | |

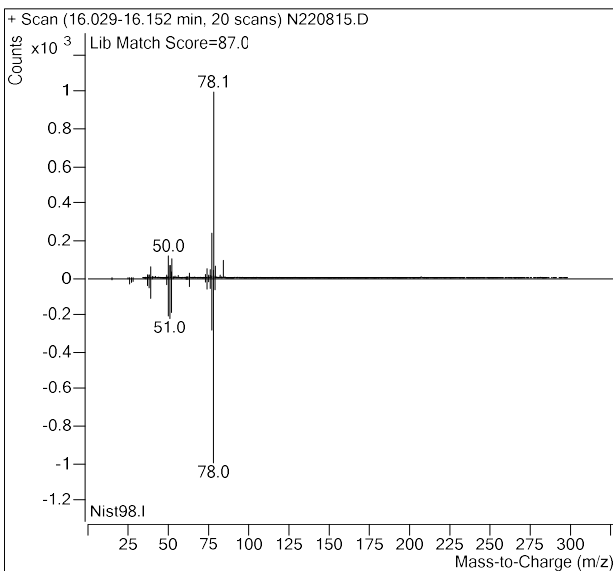
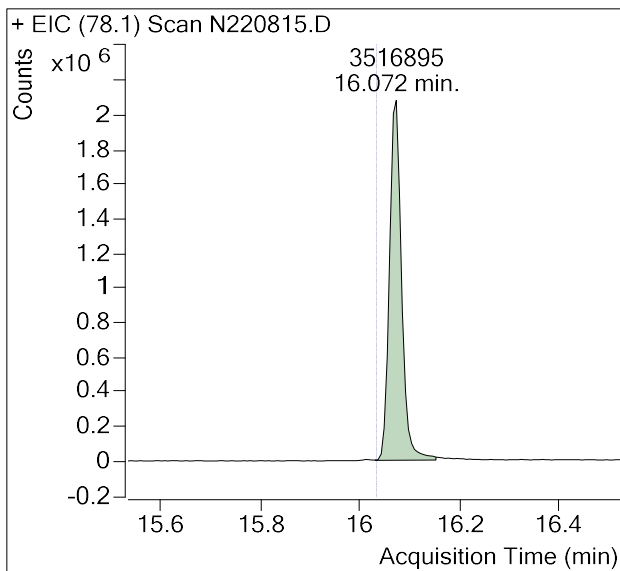
(m)=Manual Integration

1,3-Butadiene

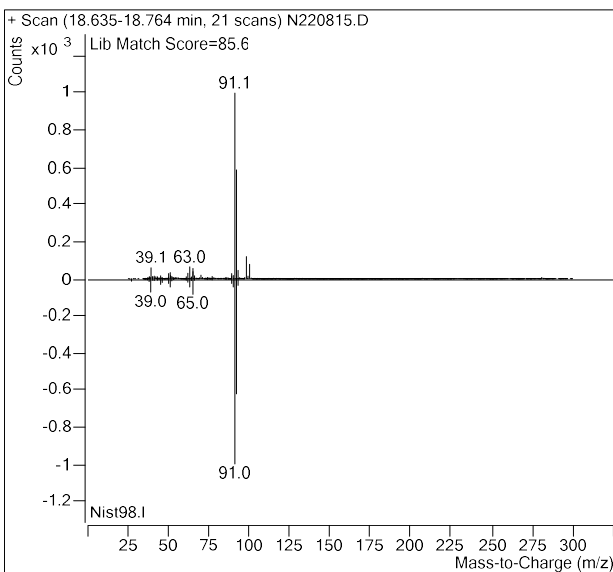
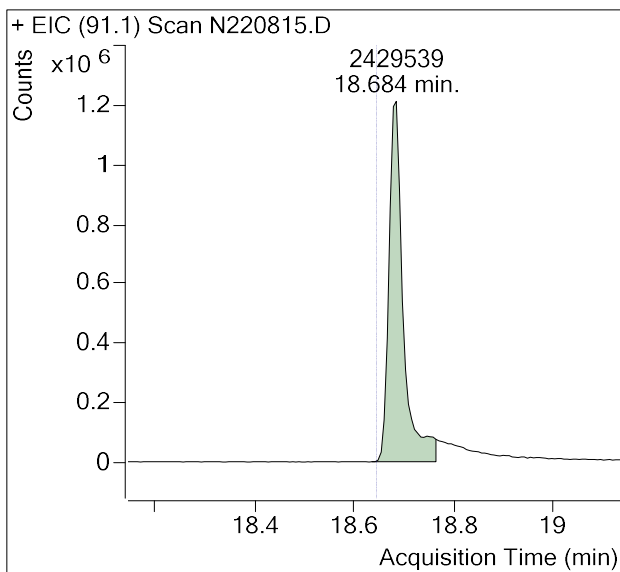


Sample Name : USSCL-PT11-S-20221206
Sample Info : B37655
Data File : N220815.D
Acquisition Date : 2023-01-05 01:03:10
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

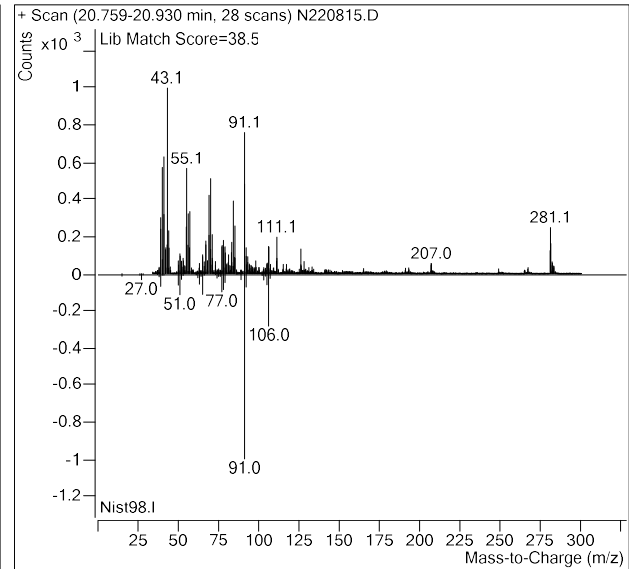
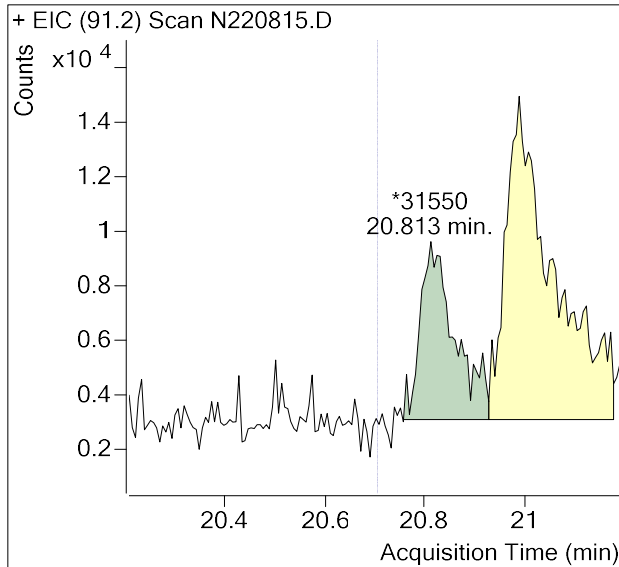


Toluene

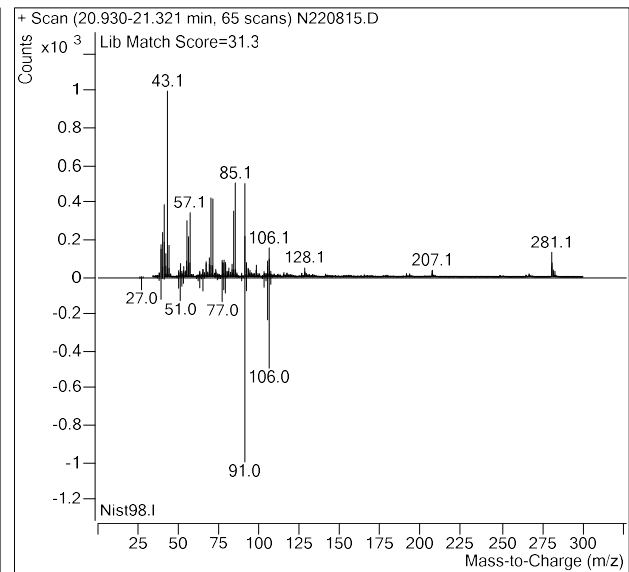
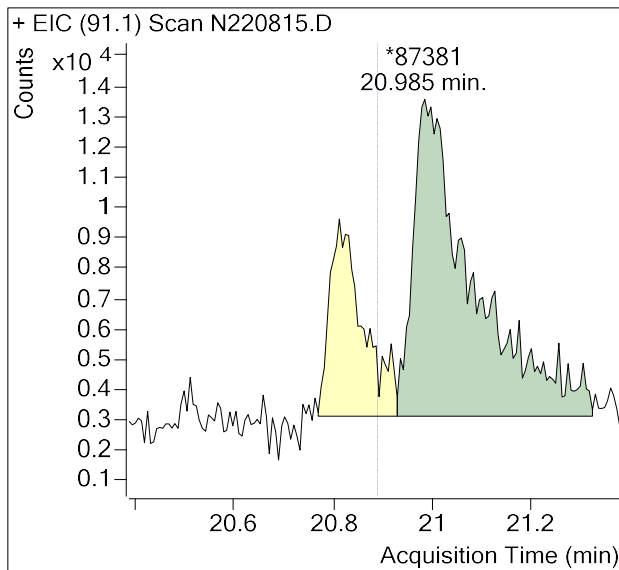


Sample Name : USSCL-PT11-S-20221206
Sample Info : B37655
Data File : N220815.D
Acquisition Date : 2023-01-05 01:03:10
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

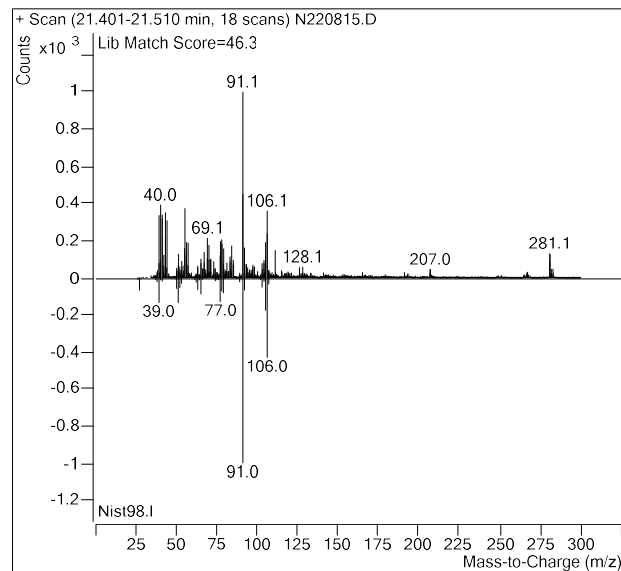
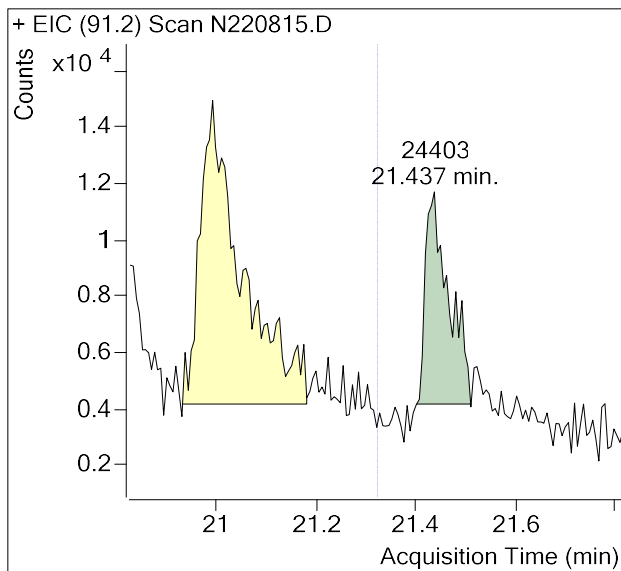


m-/p-Xylenes

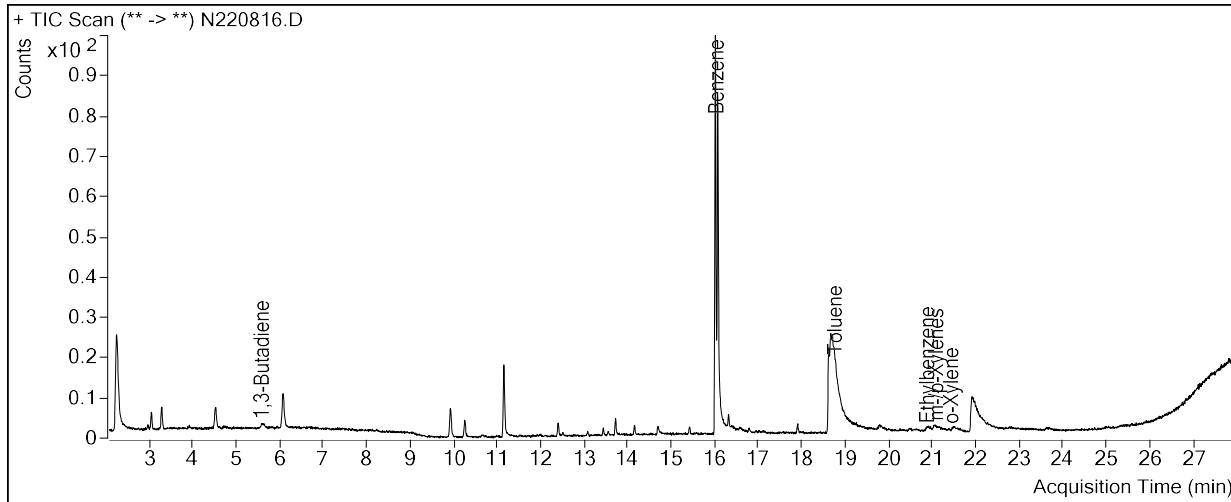


Sample Name : USSCL-PT11-S-20221206
Sample Info : B37655
Data File : N220815.D
Acquisition Date : 2023-01-05 01:03:10
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



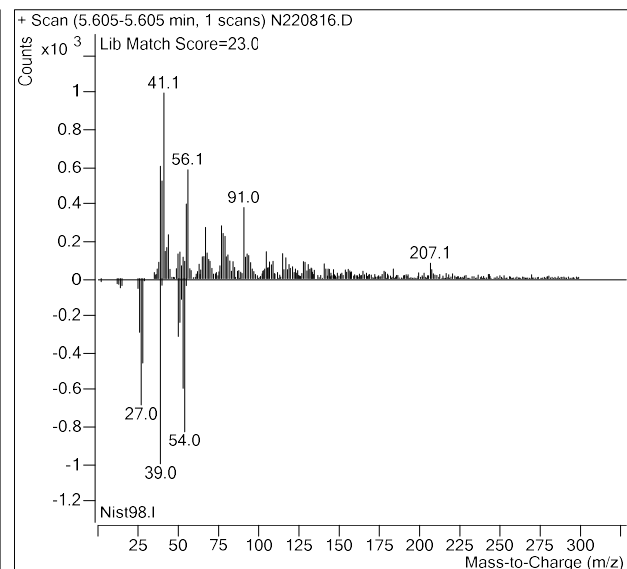
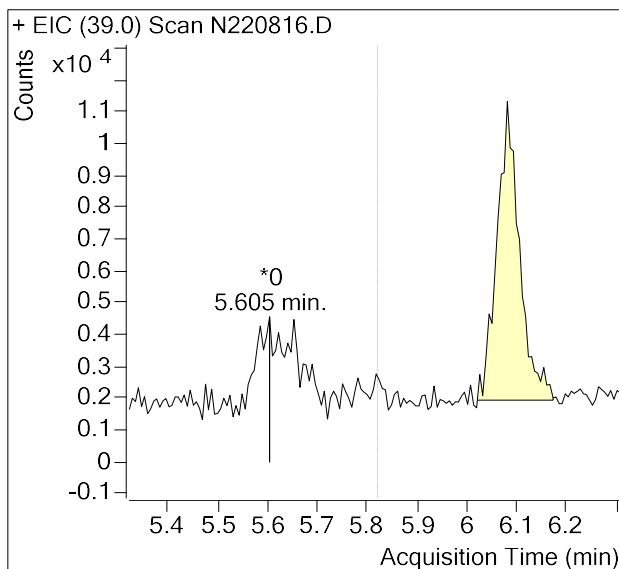
Sample Name : USSCL-PT12-S-20221206
Sample Info : B20191
Data File : N220816.D
Acquisition Date : 2023-01-05 01:43:03
Instrument Method : M325B-TD-CRYO9
Matrix : AIR



| Compound | Retention Time | Response | Flags |
|-----------------|----------------|-----------|-------|
| 1,3-Butadiene | 5.82 | 0 | m |
| Benzene-d6 (IS) | 15.97 | 1,554,530 | |
| Benzene | 16.03 | 1,188,060 | |
| Toluene-d8 (IS) | 18.55 | 1,520,149 | |
| Toluene | 18.64 | 499,890 | |
| Ethylbenzene | 20.70 | 46,468 | |
| m-/p-Xylenes | 20.89 | 48,130 | m |
| o-Xylene | 21.32 | 13,700 | |

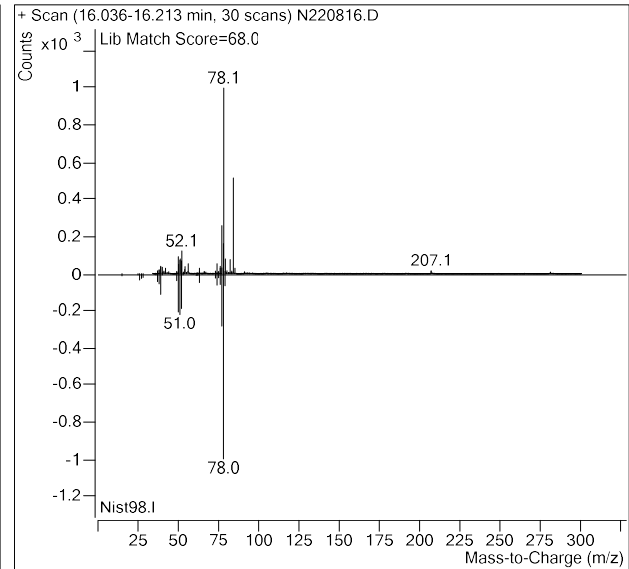
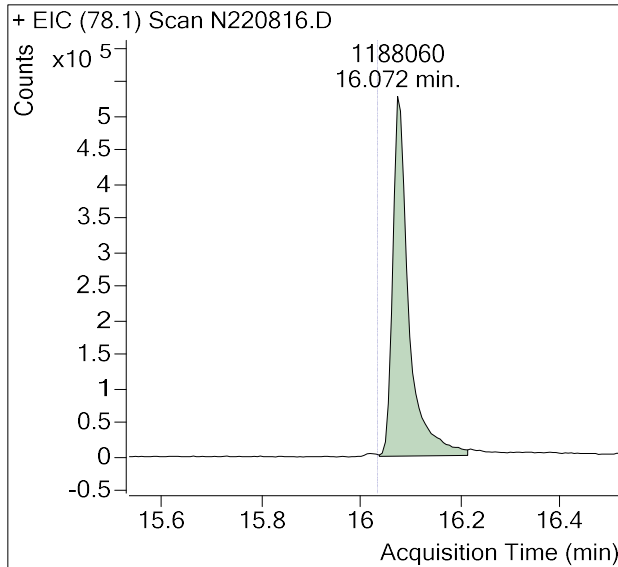
(m)=Manual Integration

1,3-Butadiene

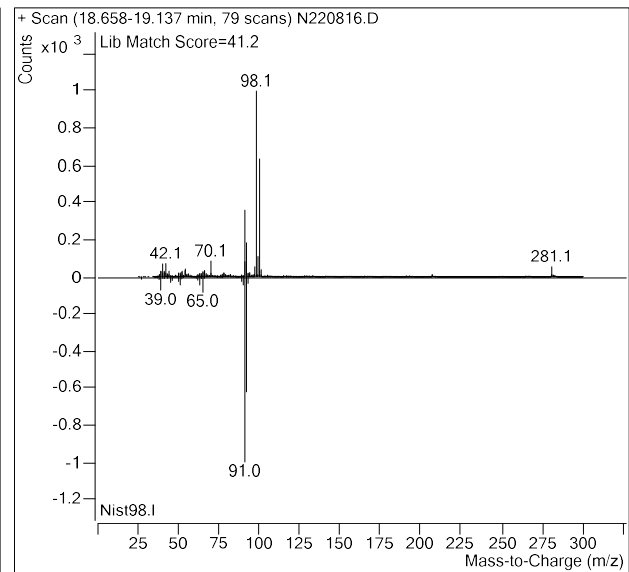
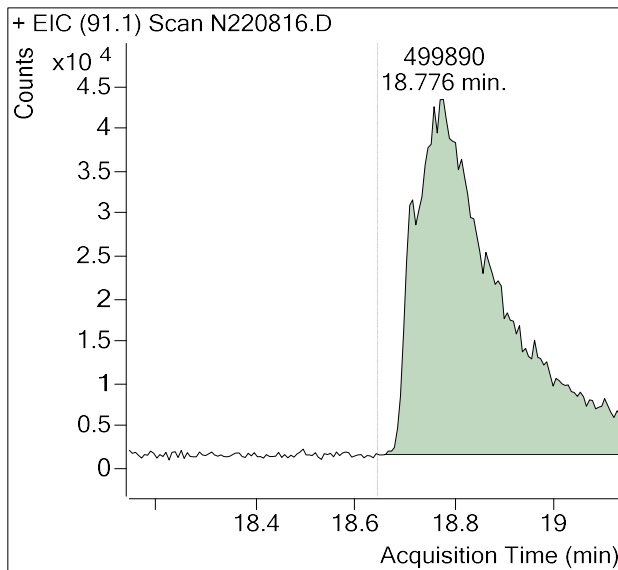


Sample Name : USSCL-PT12-S-20221206
Sample Info : B20191
Data File : N220816.D
Acquisition Date : 2023-01-05 01:43:03
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Benzene

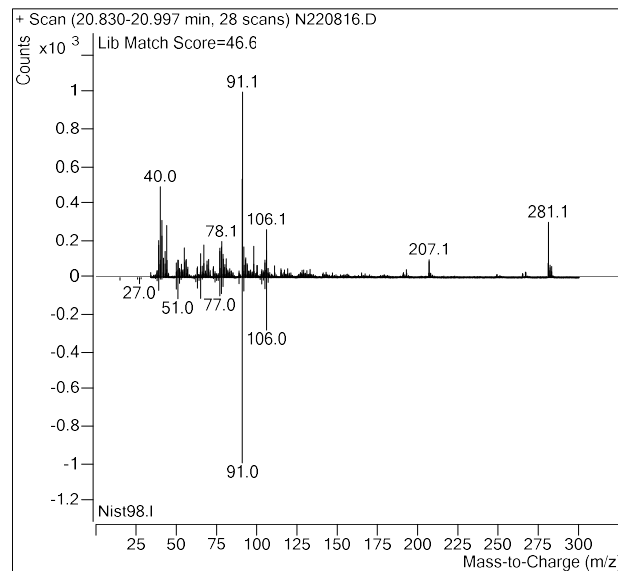
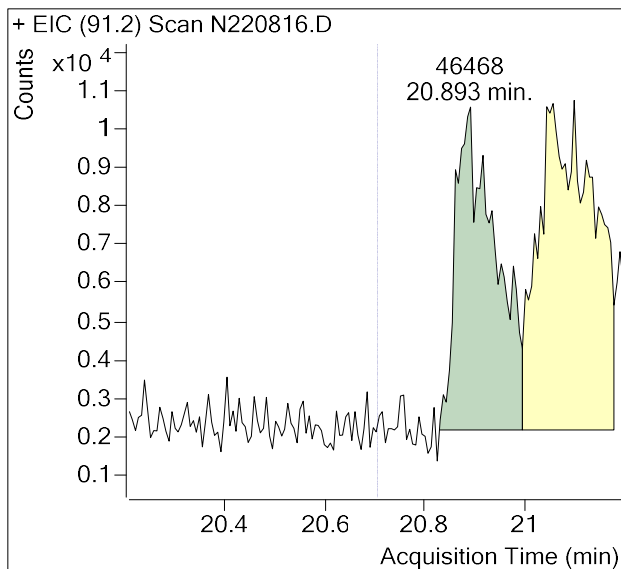


Toluene

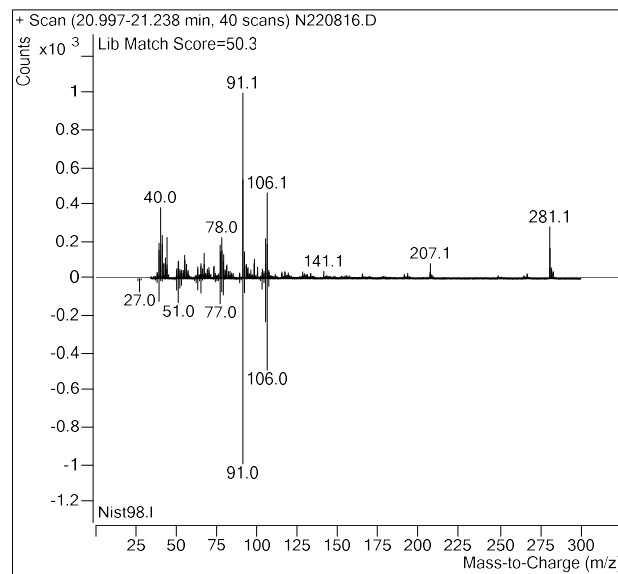
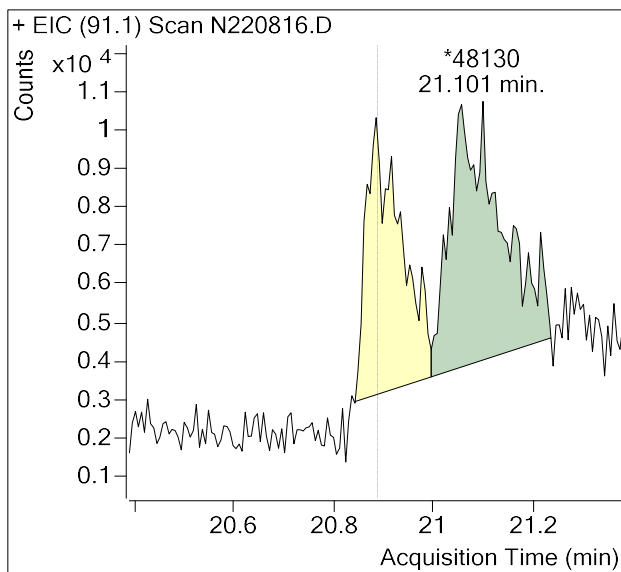


Sample Name : USSCL-PT12-S-20221206
Sample Info : B20191
Data File : N220816.D
Acquisition Date : 2023-01-05 01:43:03
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

Ethylbenzene

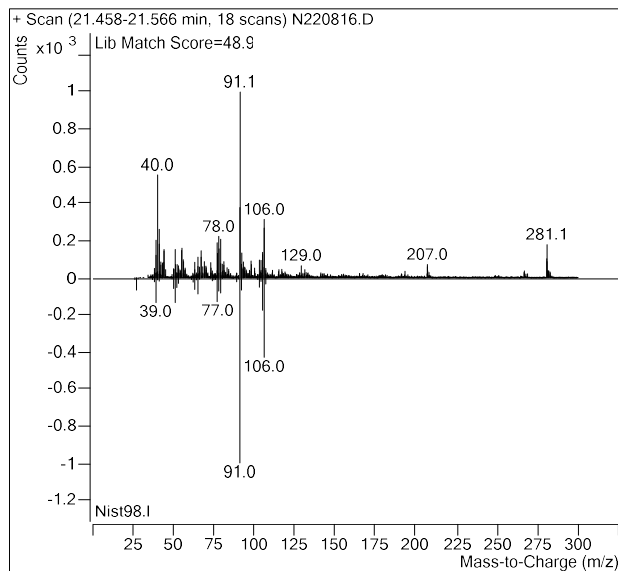
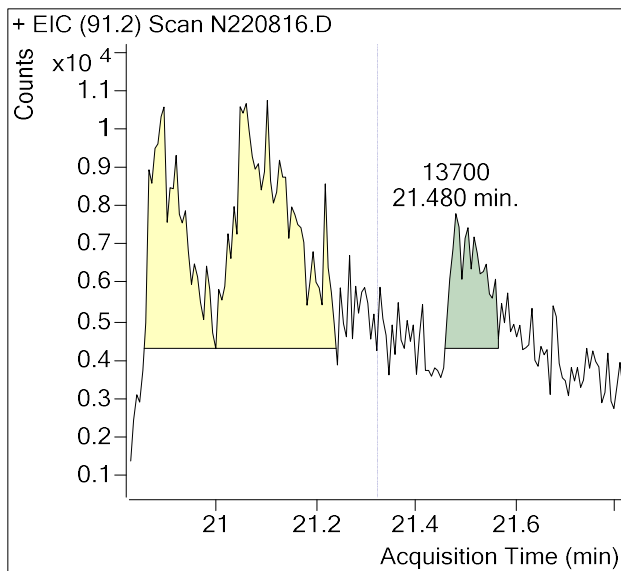


m-/p-Xylenes



Sample Name : USSCL-PT12-S-20221206
Sample Info : B20191
Data File : N220816.D
Acquisition Date : 2023-01-05 01:43:03
Instrument Method : M325B-TD-CRYO9
Matrix : AIR

o-Xylene



Calibration Summary Reports



Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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 | 0.251 | 0.256 | 0.251 | -2.0% | 7.5% | | Pass | |
| 2022EE105 Method Blank | Blank | | 0.256 | 0.251 | | | -16% | Pass | ND |
| M325B CCV 5 | Check | 0.225 | 0.256 | 0.251 | -12% | | 4.4% | Pass | |
| M325B CCV 5 | Check | 0.231 | 0.256 | 0.251 | -9.9% | | 1.7% | 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 | 1.182 | 1.088 | 1.182 | 8.6% | 7.5% | | Pass | |
| 2022EE105 Method Blank | Blank | | 1.088 | 1.182 | | | -16% | Pass | ND |
| M325B CCV 5 | Check | 1.086 | 1.088 | 1.182 | -0.21% | | 4.4% | Pass | |
| M325B CCV 5 | Check | 1.082 | 1.088 | 1.182 | -0.57% | | 1.7% | 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 | 1.486 | 1.679 | 1.486 | -11% | -13% | | Pass | |
| 2022EE105 Method Blank | Blank | | 1.679 | 1.486 | | | -20% | Pass | ND |
| M325B CCV 5 | Check | 1.389 | 1.679 | 1.486 | -17% | | 3.8% | Pass | |
| M325B CCV 5 | Check | 1.362 | 1.679 | 1.486 | -19% | | 2.8% | 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 | 0.997 | 1.316 | 0.997 | -24% | -13% | | Pass | |
| 2022EE105 Method Blank | Blank | | 1.316 | 0.997 | | | -20% | Pass | ND |
| M325B CCV 5 | Check | 1.009 | 1.316 | 0.997 | -23% | | 3.8% | Pass | |
| M325B CCV 5 | Check | 1.438 | 1.316 | 0.997 | 9.3% | | 2.8% | Pass | |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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 | 1.281 | 1.457 | 1.281 | -12% | -13% | | Pass | |
| 2022EE105 Method Blank | Blank | | 1.457 | 1.281 | | | -20% | Pass | ND |
| M325B CCV 5 | Check | 1.203 | 1.457 | 1.281 | -17% | | 3.8% | Pass | |
| M325B CCV 5 | Check | 1.144 | 1.457 | 1.281 | -21% | | 2.8% | 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 | 1.520 | 1.383 | 1.520 | 9.9% | -13% | | Pass | |
| 2022EE105 Method Blank | Blank | | 1.383 | 1.520 | | | -20% | Pass | ND |
| M325B CCV 5 | Check | 1.397 | 1.383 | 1.520 | 0.99% | | 3.8% | Pass | |
| M325B CCV 5 | Check | 1.393 | 1.383 | 1.520 | 0.72% | | 2.8% | Pass | |

Enthalpy Analytical

Company: All4, Inc.

Job No.: 2022EE105-1 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.: 2022EE105-1 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.: 2022EE105-1 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.: 2022EE105-1 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% |

**This Is The Last Page
Of This Report.**