

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100421\  
 Data File : VU045101.D  
 Acq On : 04 Oct 2021 17:08  
 Operator : SY/MD  
 Sample : M3996-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F4A27

Quant Time: Oct 05 02:46:53 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Oct 05 02:41:56 2021  
 Response via : Initial Calibration

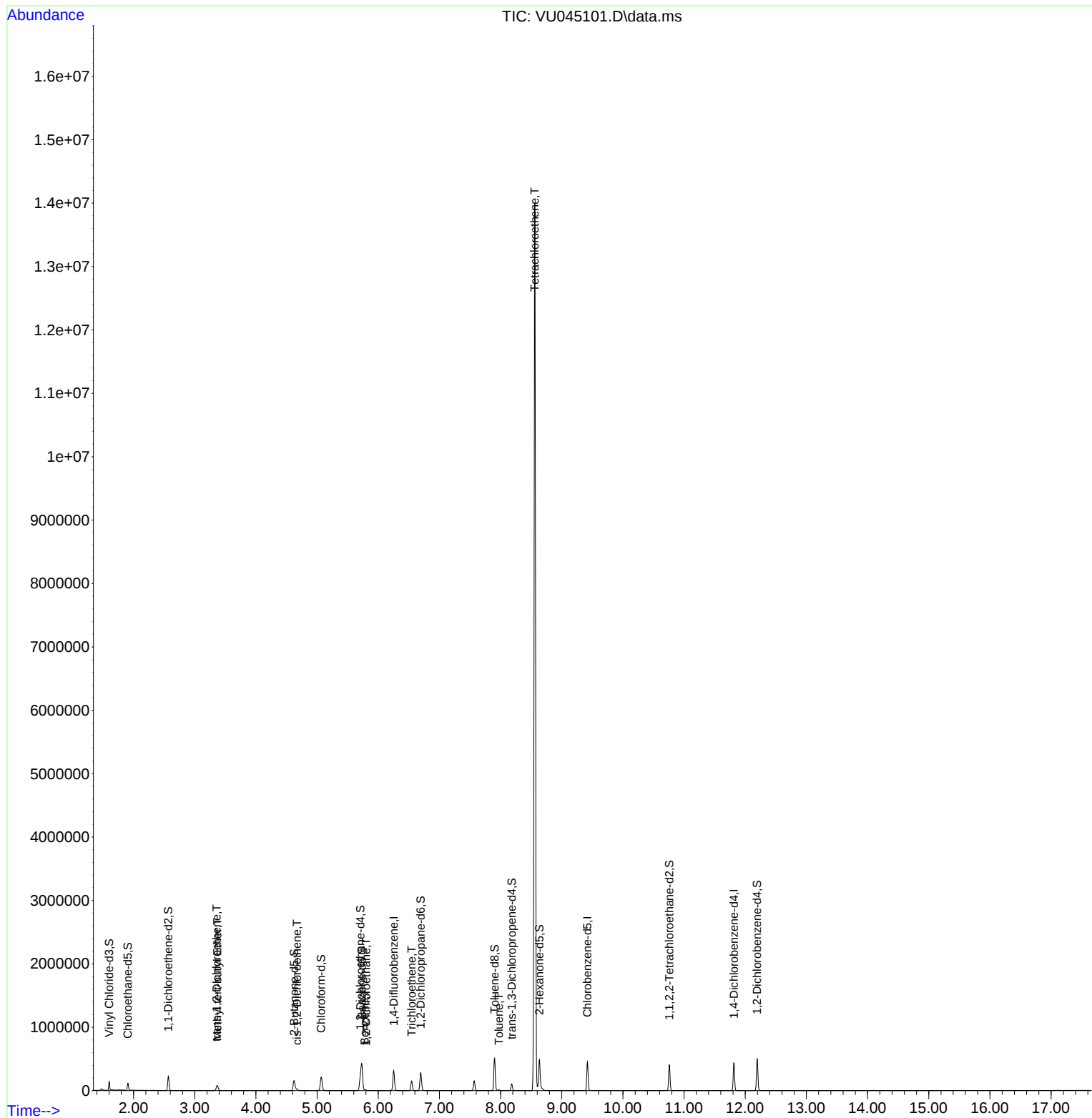
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253   | 114   | 245497   | 50.00    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.420   | 117   | 233155   | 50.00    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816  | 152   | 110497   | 50.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 91672    | 34.11    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 68.22%   |
| 7) Chloroethane-d5            | 1.906   | 69    | 85530    | 40.16    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 80.32%   |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 133860   | 29.66    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 59.32%#  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 230105   | 108.30   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 108.30%  |
| 24) Chloroform-d              | 5.067   | 84    | 193220   | 45.52    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.04%   |
| 26) 1,2-Dichloroethane-d4     | 5.706   | 65    | 137862   | 47.95    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.90%   |
| 32) Benzene-d6                | 5.732   | 84    | 380121   | 46.98    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.96%   |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 127622   | 48.38    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 96.76%   |
| 41) Toluene-d8                | 7.903   | 98    | 331147   | 47.43    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 94.86%   |
| 43) trans-1,3-Dichloroprop... | 8.182   | 79    | 57426    | 48.94    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.88%   |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 165099   | 112.93   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 112.93%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 203214   | 49.47    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.94%   |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 124674   | 51.85    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.70%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 3731     | 1.86     | ug/L   | 87       |
| 18) Methyl tert-butyl Ether   | 3.369   | 73    | 81700    | 12.37    | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 6491     | 2.94     | ug/L   | 95       |
| 27) 1,2-Dichloroethane        | 5.800   | 62    | 6223     | 1.80     | ug/L # | 93       |
| 33) Benzene                   | 5.777   | 78    | 9114     | 1.05     | ug/L   | 100      |
| 34) Trichloroethene           | 6.546   | 95    | 50681    | 24.40    | ug/L   | 98       |
| 42) Toluene                   | 7.973   | 91    | 10223    | 1.16     | ug/L   | 95       |
| 46) Tetrachloroethene         | 8.558   | 164   | 2882338  | 1941.47  | ug/L   | 97       |
| -----                         |         |       |          |          |        |          |

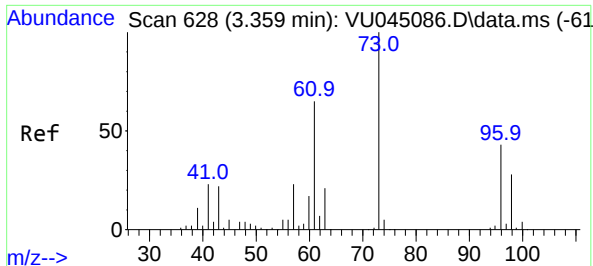
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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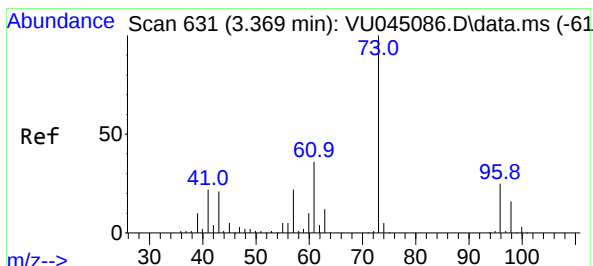
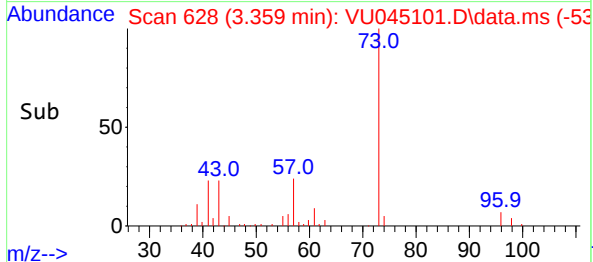
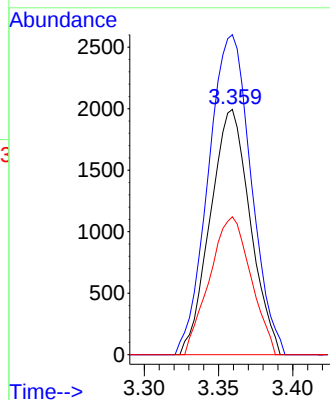
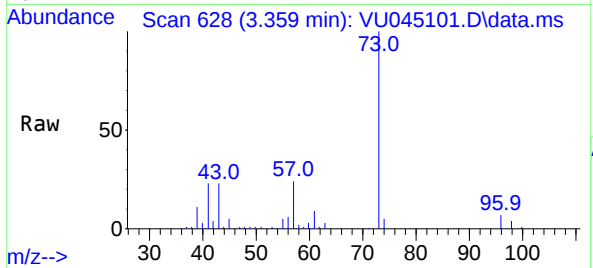




#17  
trans-1,2-Dichloroethene  
Concen: 1.86 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

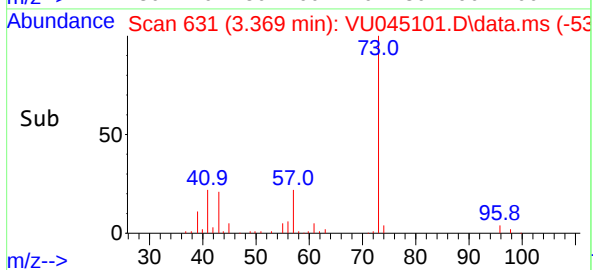
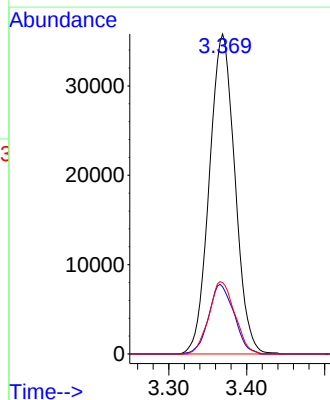
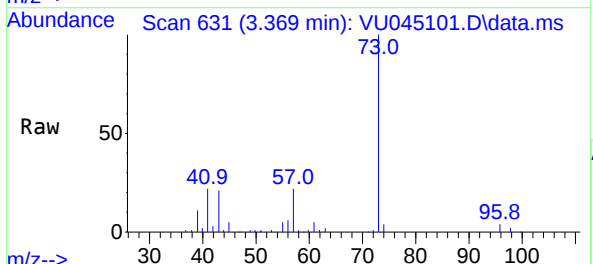
Instrument :  
MSVOA\_U  
ClientSampleId :  
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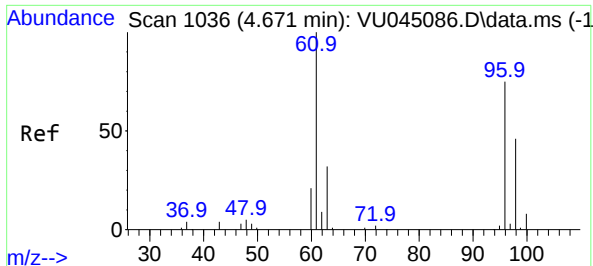
Tgt Ion: 96 Resp: 3731  
Ion Ratio Lower Upper  
96 100  
61 130.4 105.1 195.3  
98 56.2 43.0 79.8



#18  
Methyl tert-butyl Ether  
Concen: 12.37 ug/L  
RT: 3.369 min Scan# 631  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

Tgt Ion: 73 Resp: 81700  
Ion Ratio Lower Upper  
73 100  
43 21.6 17.3 25.9  
57 22.8 18.7 28.1

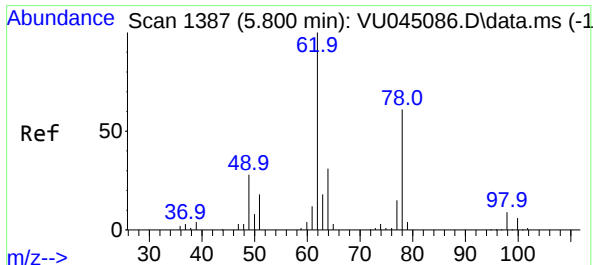
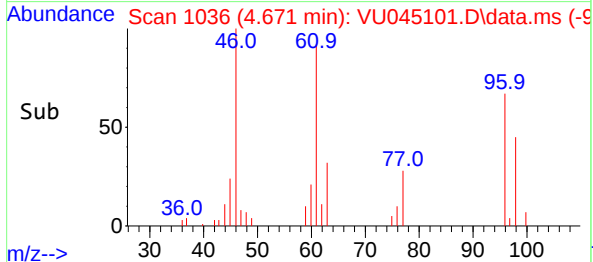
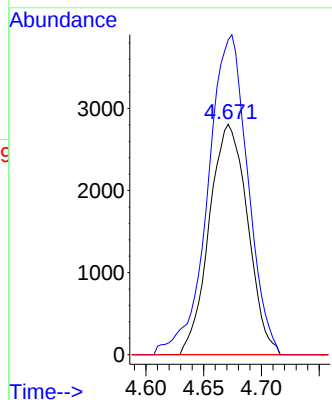
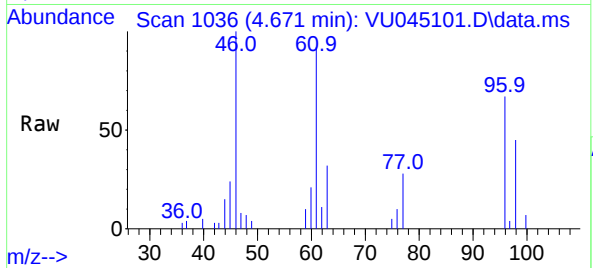




#20  
cis-1,2-Dichloroethene  
Concen: 2.94 ug/L  
RT: 4.671 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

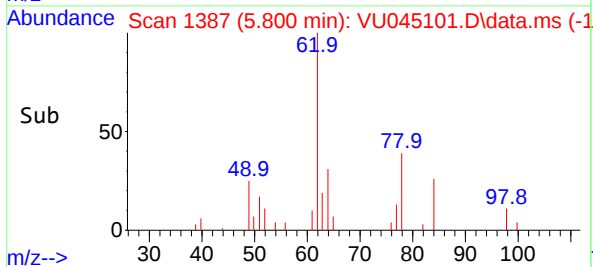
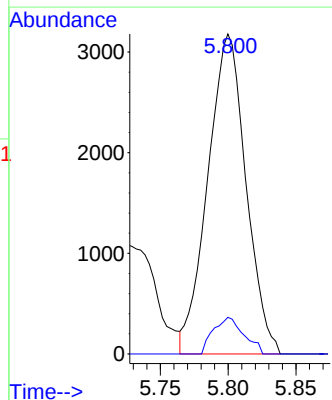
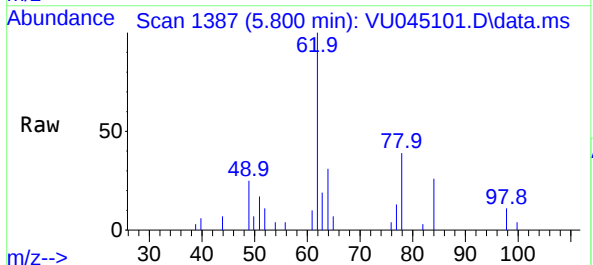
Instrument :  
MSVOA\_U  
ClientSampled :  
F4A27

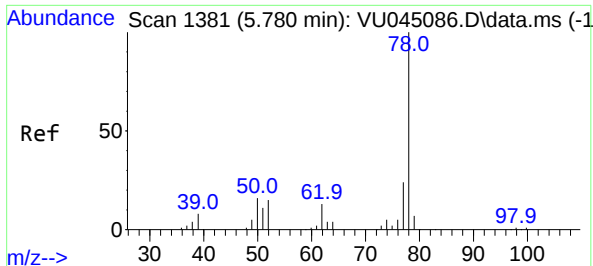
Tgt Ion: 96 Resp: 6491  
Ion Ratio Lower Upper  
96 100  
61 136.6 100.2 186.0  
68 0.0 0.0 0.0



#27  
1,2-Dichloroethane  
Concen: 1.80 ug/L  
RT: 5.800 min Scan# 1387  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

Tgt Ion: 62 Resp: 6223  
Ion Ratio Lower Upper  
62 100  
98 11.5 7.1 10.7#

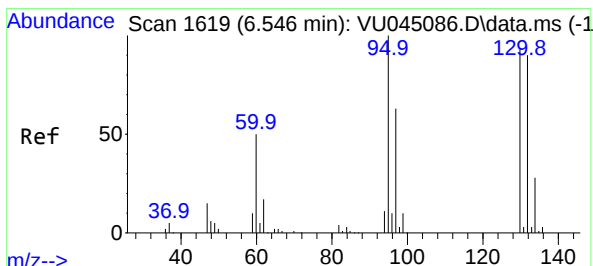
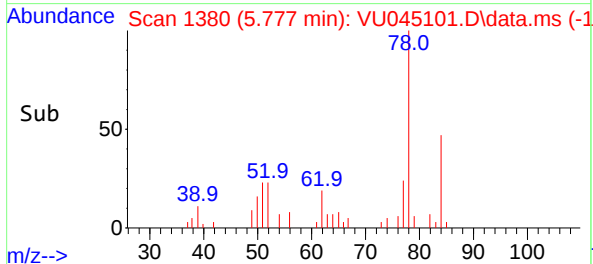
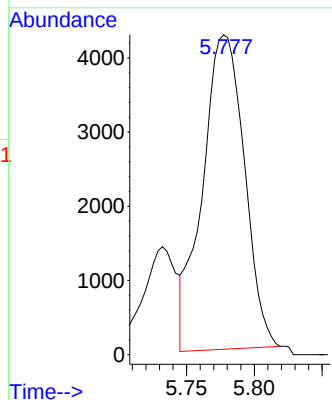
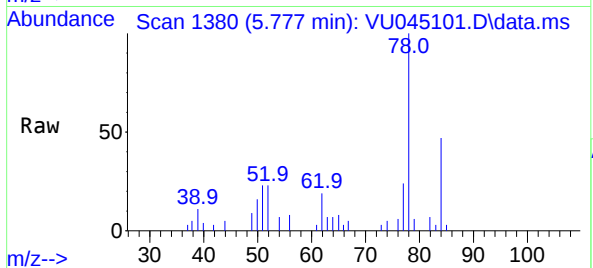




Benzene  
Concen: 1.05 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. -0.003 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

Instrument :  
MSVOA\_U  
ClientSampleId :  
F4A27

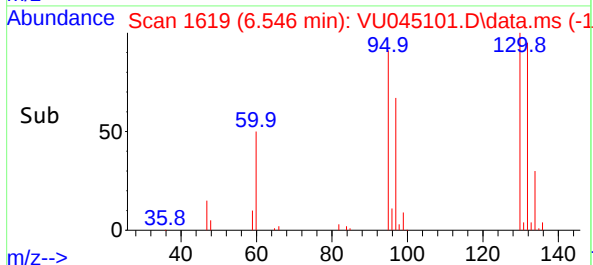
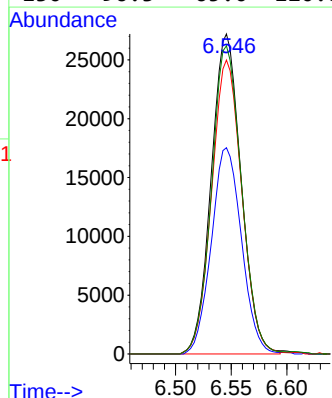
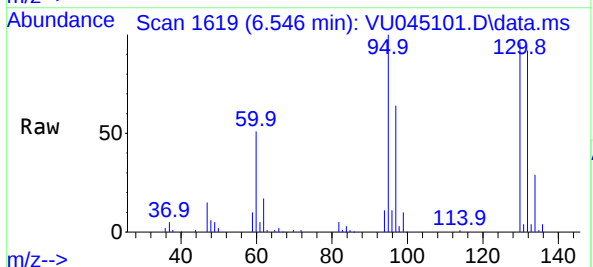
Tgt Ion: 78 Resp: 9114

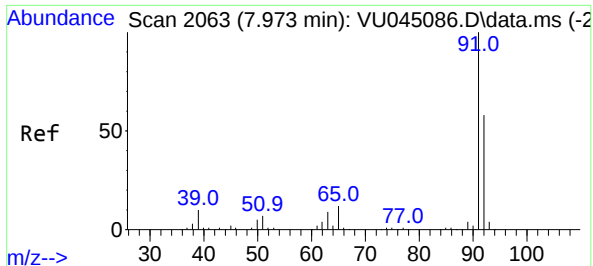


Trichloroethene  
Concen: 24.40 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

Tgt Ion: 95 Resp: 50681

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.5  | 44.4  | 82.4  |
| 132 | 91.9  | 62.9  | 116.9 |
| 130 | 96.3  | 65.0  | 120.8 |

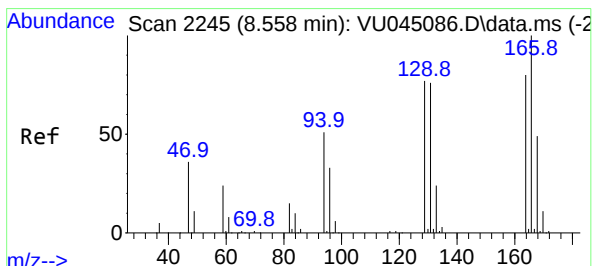
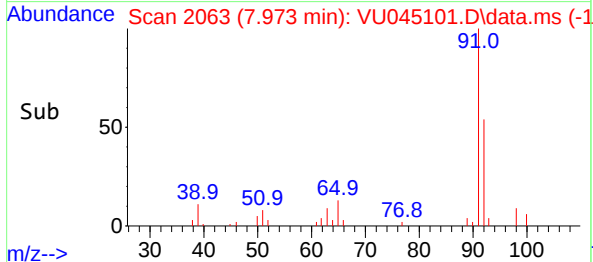
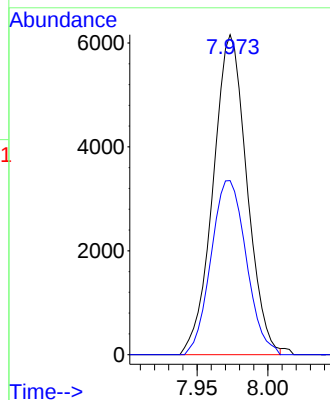
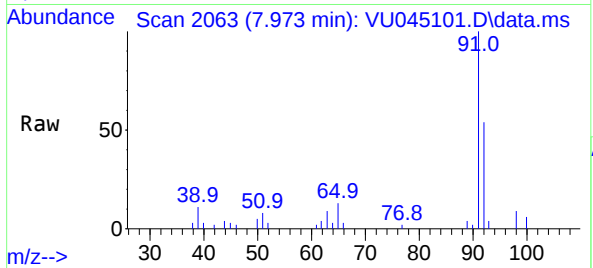




#42  
Toluene  
Concen: 1.16 ug/L  
RT: 7.973 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

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Tgt Ion: 91 Resp: 10223  
Ion Ratio Lower Upper  
91 100  
92 54.4 40.5 75.1



#46  
Tetrachloroethene  
Concen: 1941.47 ug/L  
RT: 8.558 min Scan# 2245  
Delta R.T. 0.000 min  
Lab File: VU045101.D  
Acq: 04 Oct 2021 17:08

Tgt Ion: 164 Resp: 2882338  
Ion Ratio Lower Upper  
164 100  
129 100.4 69.8 129.6  
131 96.6 66.4 123.2  
166 125.0 91.1 169.3

