

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU121823\  
 Data File : VU057005.D  
 Acq On : 18 Dec 2023 19:59  
 Operator : MD/SY  
 Sample : 05811-19  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 19 01:44:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR121123WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Dec 19 01:20:32 2023  
 Response via : Initial Calibration

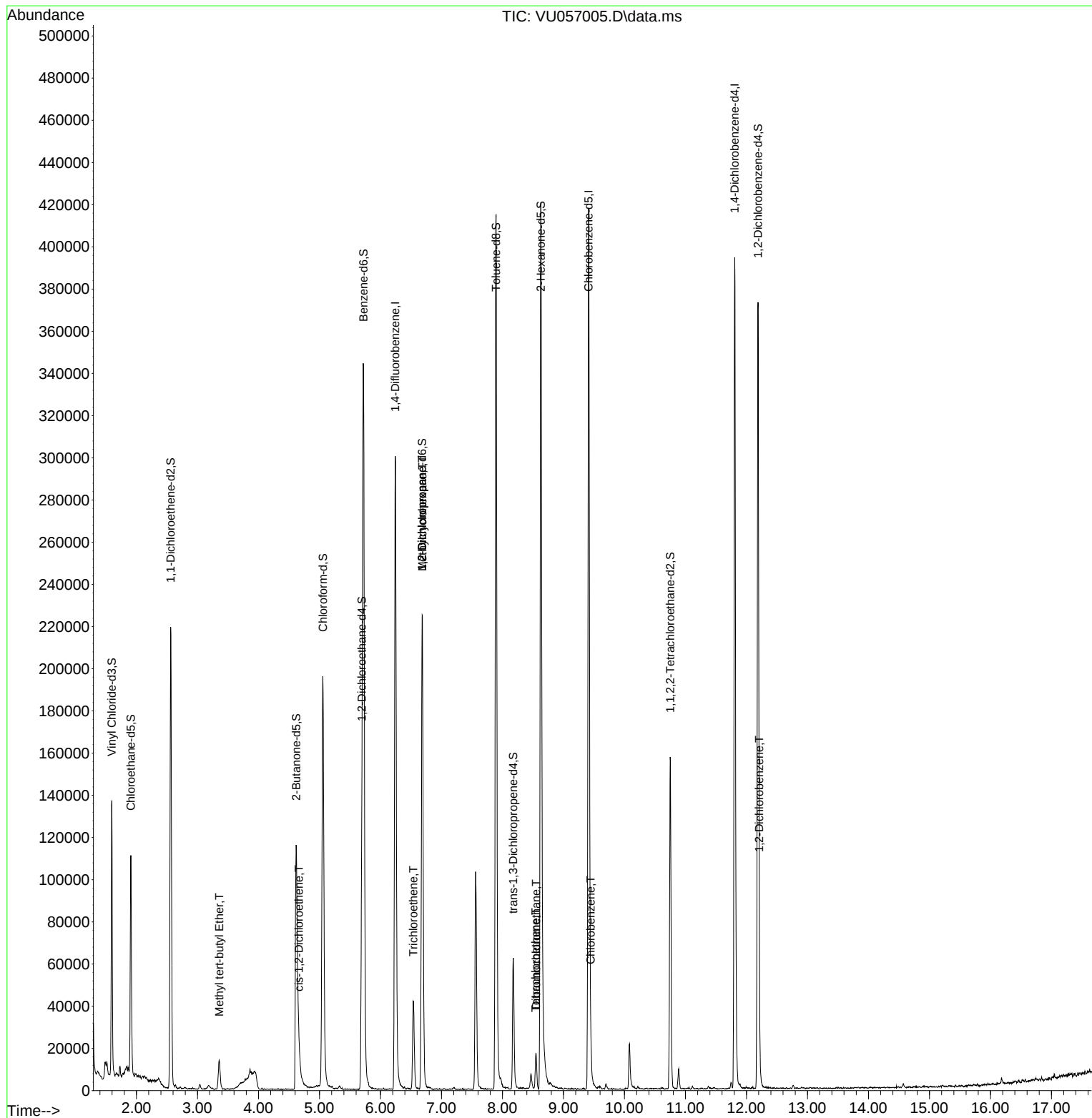
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 244634   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 240535   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 106776   | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.596  | 65    | 91713    | 4.374    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 87.400%  |
| 7) Chloroethane-d5            | 1.908  | 69    | 77942    | 4.967    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 99.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 42678    | 4.757    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 95.200%  |
| 20) 2-Butanone-d5             | 4.618  | 46    | 182623   | 44.100   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 88.200%  |
| 24) Chloroform-d              | 5.055  | 84    | 186459   | 4.696    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.695  | 65    | 82993    | 4.417    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.400%  |
| 32) Benzene-d6                | 5.721  | 84    | 336275   | 4.507    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 90.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 111063   | 4.756    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 95.200%  |
| 41) Toluene-d8                | 7.894  | 98    | 293552   | 4.402    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 88.000%  |
| 43) trans-1,3-Dichloroprop... | 8.177  | 79    | 38282    | 4.227    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 84.600%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 143505   | 42.016   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 84.040%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 82058    | 4.857    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 97.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 100127   | 4.770    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 95.400%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        |          |
| 17) Methyl tert-butyl Ether   | 3.358  | 73    | 13186    | 0.299    | ug/L # | 91       |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 3170     | 0.145    | ug/L   | 95       |
| 34) Trichloroethene           | 6.538  | 95    | 15496    | 0.668    | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.685  | 83    | 25773    | 0.753    | ug/L # | 18       |
| 37) 1,2-Dichloropropane       | 6.682  | 63    | 12100    | 0.560    | ug/L # | 89       |
| 47) Tetrachloroethene         | 8.544  | 164   | 3987     | 0.246    | ug/L   | 84       |
| 49) Dibromochloromethane      | 8.550  | 129   | 4021     | 0.239    | ug/L # | 11       |
| 51) Chlorobenzene             | 9.444  | 112   | 7486     | 0.134    | ug/L # | 89       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146   | 7153     | 0.197    | ug/L   | 91       |
| -----                         |        |       |          |          |        |          |

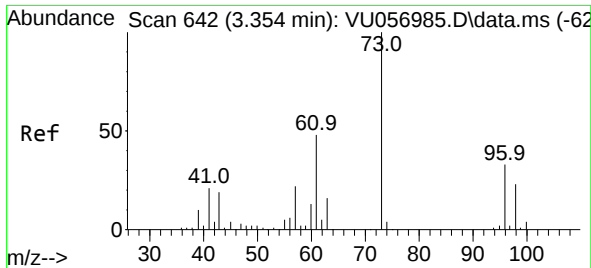
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Dec 19 01:20:32 2023  
Response via : Initial Calibration

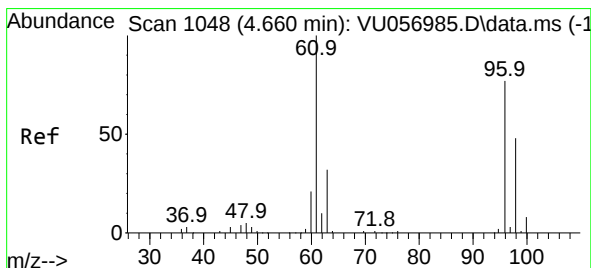
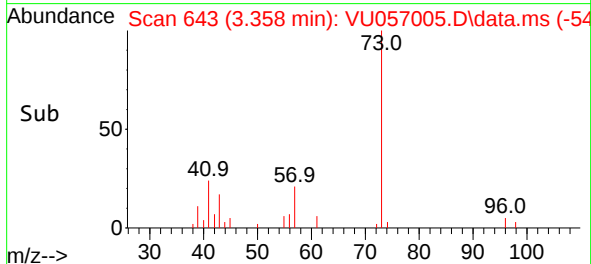
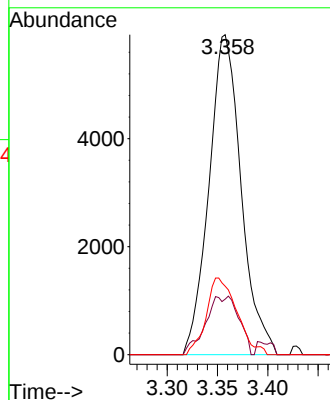
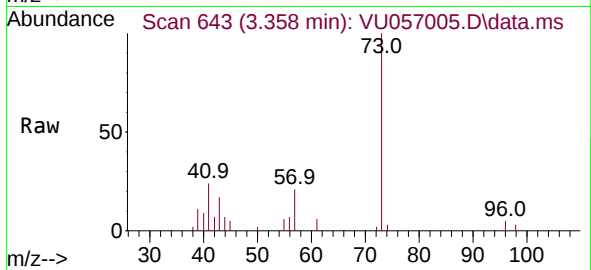




#17  
Methyl tert-butyl Ether  
Concen: 0.299 ug/L  
RT: 3.358 min Scan# 64  
Delta R.T. 0.003 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

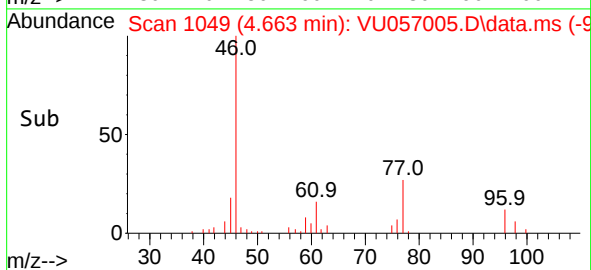
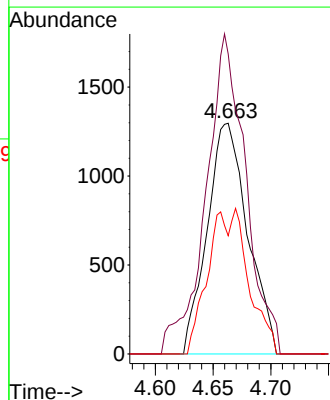
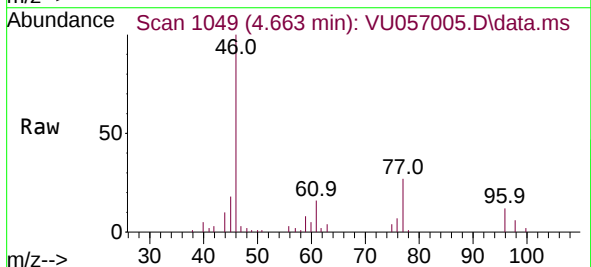
Instrument :  
MSVOA\_U  
ClientSampleId :

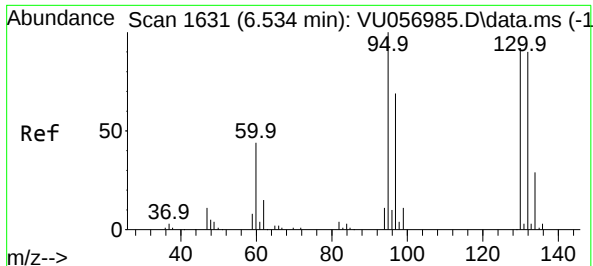
Tgt Ion: 73 Resp: 13186  
Ion Ratio Lower Upper  
73 100  
43 10.1 14.4 21.6#  
57 22.8 17.8 26.8



#22  
cis-1,2-Dichloroethene  
Concen: 0.145 ug/L  
RT: 4.663 min Scan# 1049  
Delta R.T. 0.003 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

Tgt Ion: 96 Resp: 3170  
Ion Ratio Lower Upper  
96 100  
61 130.1 91.3 169.6  
98 51.3 44.2 82.0



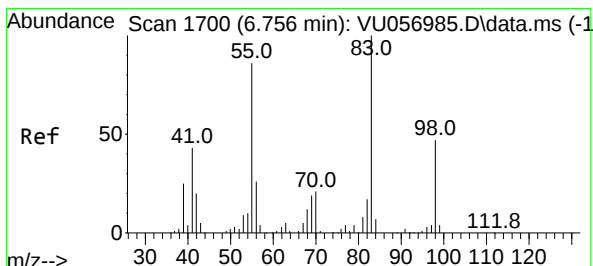
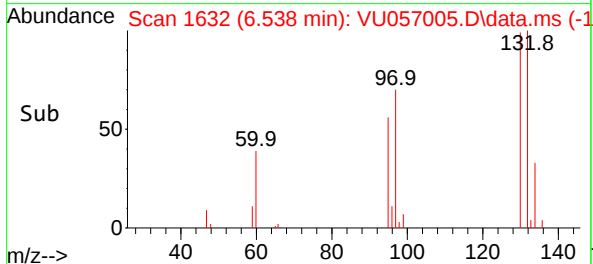
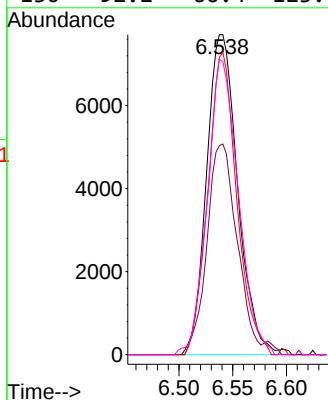
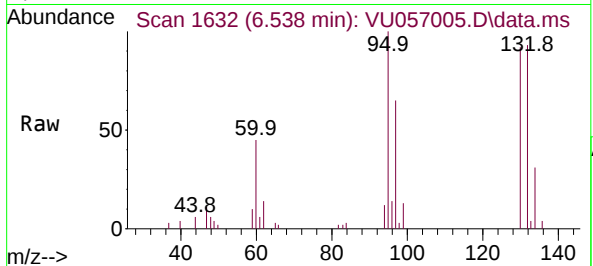


#34  
Trichloroethene  
Concen: 0.668 ug/L  
RT: 6.538 min Scan# 1631  
Delta R.T. 0.003 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion: 95 Resp: 15496

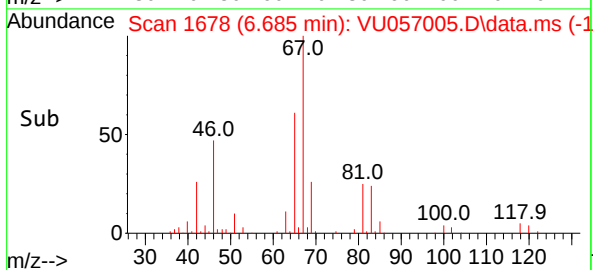
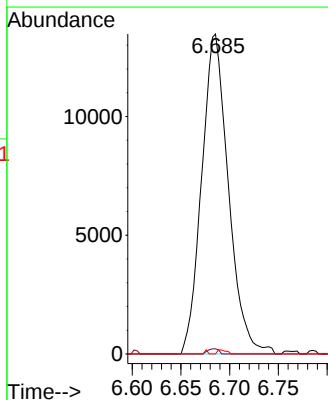
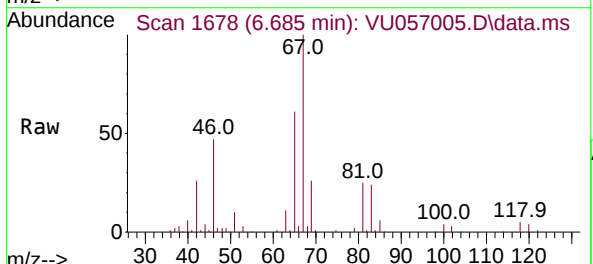
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.3  | 46.1  | 85.5  |
| 132 | 92.8  | 63.6  | 118.0 |
| 130 | 92.2  | 66.4  | 123.4 |

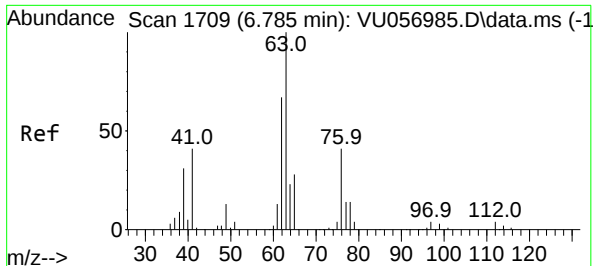


#35  
Methylcyclohexane  
Concen: 0.753 ug/L  
RT: 6.685 min Scan# 1678  
Delta R.T. -0.071 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

Tgt Ion: 83 Resp: 25773

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.7   | 64.6  | 97.0# |
| 98  | 0.4   | 36.1  | 54.1# |

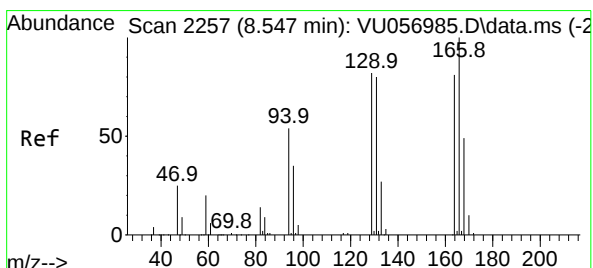
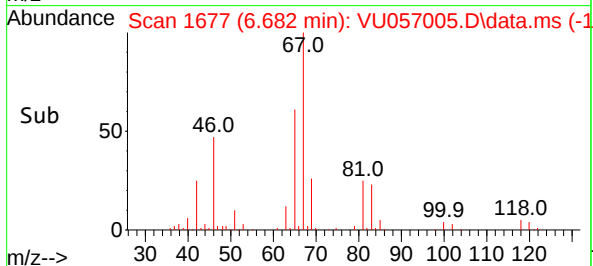
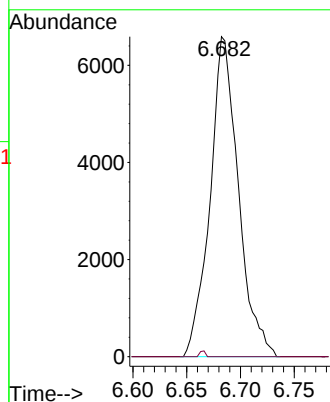
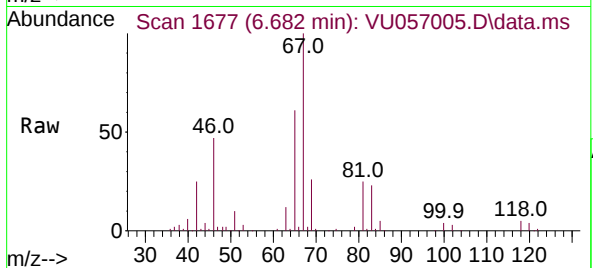




#37  
1,2-Dichloropropane  
Concen: 0.560 ug/L  
RT: 6.682 min Scan# 1  
Delta R.T. -0.103 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

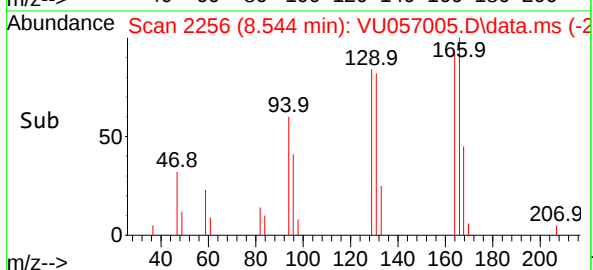
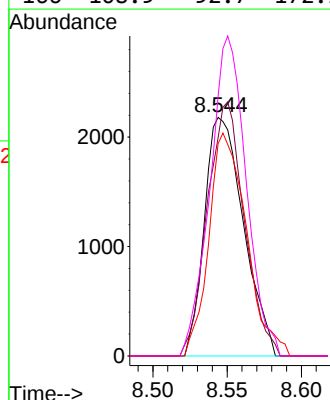
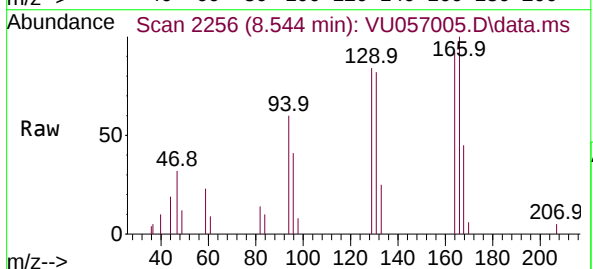
Instrument :  
MSVOA\_U  
ClientSampleId :

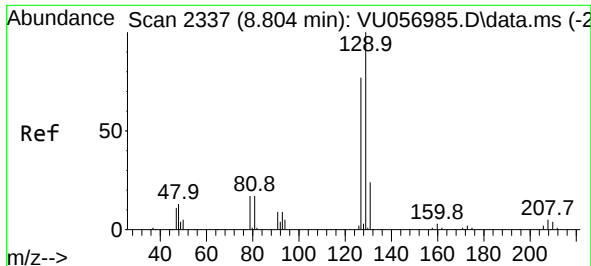
Tgt Ion: 63 Resp: 12100  
Ion Ratio Lower Upper  
63 100  
112 0.4 3.3 4.9#



#47  
Tetrachloroethene  
Concen: 0.246 ug/L  
RT: 8.544 min Scan# 2256  
Delta R.T. -0.003 min  
Lab File: VU057005.D  
Acq: 18 Dec 2023 19:59

Tgt Ion:164 Resp: 3987  
Ion Ratio Lower Upper  
164 100  
129 91.5 73.4 136.4  
131 89.0 71.5 132.9  
166 108.9 92.7 172.1





#49

Dibromochloromethane

Concen: 0.239 ug/L

RT: 8.550 min Scan# 21

Delta R.T. -0.254 min

Lab File: VU057005.D

Acq: 18 Dec 2023 19:59

Instrument :

MSVOA\_U

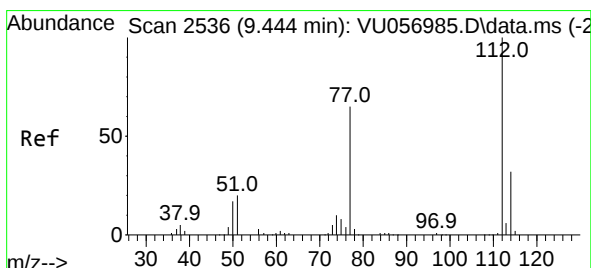
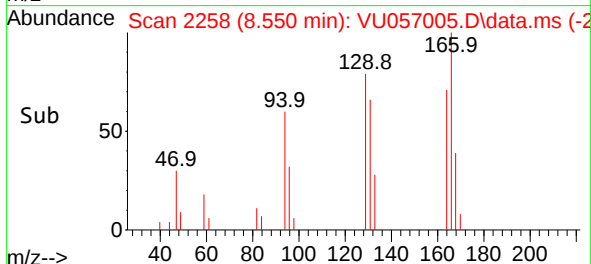
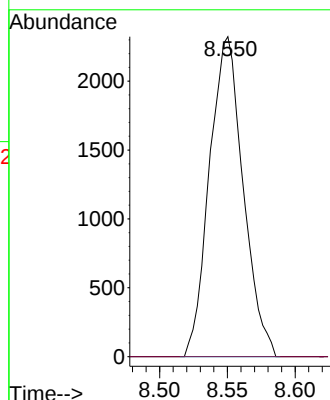
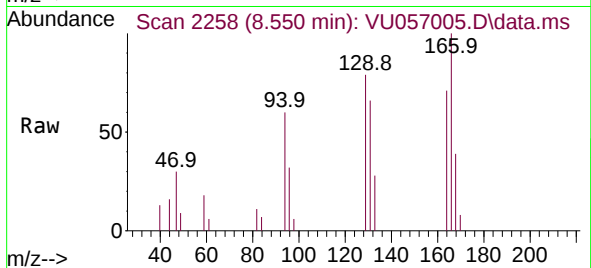
ClientSampleId :

Tgt Ion:129 Resp: 4021

Ion Ratio Lower Upper

129 100

127 0.0 53.9 100.1#



#51

Chlorobenzene

Concen: 0.134 ug/L

RT: 9.444 min Scan# 2536

Delta R.T. 0.000 min

Lab File: VU057005.D

Acq: 18 Dec 2023 19:59

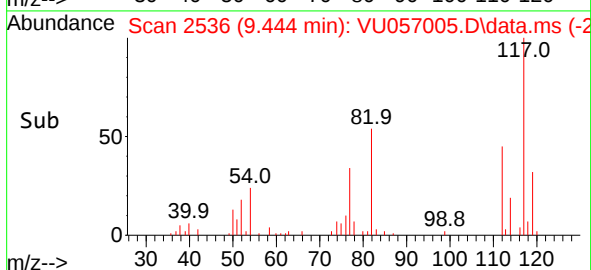
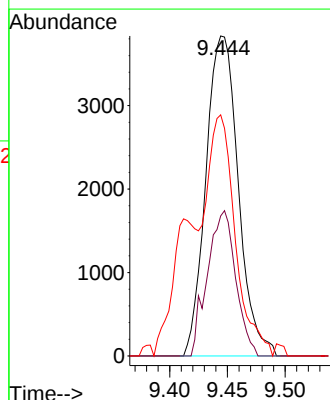
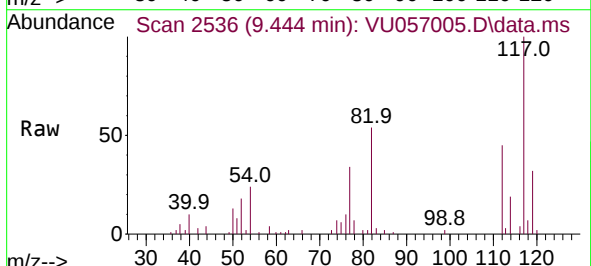
Tgt Ion:112 Resp: 7486

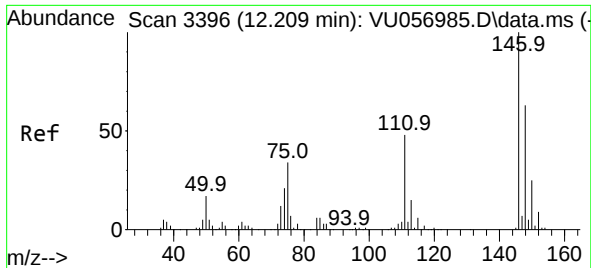
Ion Ratio Lower Upper

112 100

114 41.1 21.9 40.7#

77 70.7 51.6 77.4





#67

1,2-Dichlorobenzene

Concen: 0.197 ug/L

RT: 12.209 min Scan# 31

Delta R.T. 0.000 min

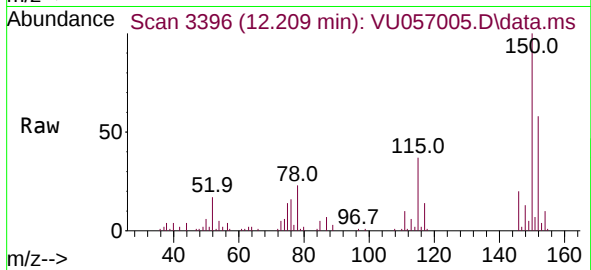
Lab File: VU057005.D

Acq: 18 Dec 2023 19:59

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:146 Resp: 7153

Ion Ratio Lower Upper

146 100

111 55.2 36.9 55.3

148 61.8 53.0 79.4

