

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW123021\  
 Data File : VW021704.D  
 Acq On : 30 Dec 2021 12:40  
 Operator : SY/VA  
 Sample : M5233-04  
 Misc : 9.54g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 31 00:53:18 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM122821SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Dec 31 00:51:50 2021  
 Response via : Initial Calibration

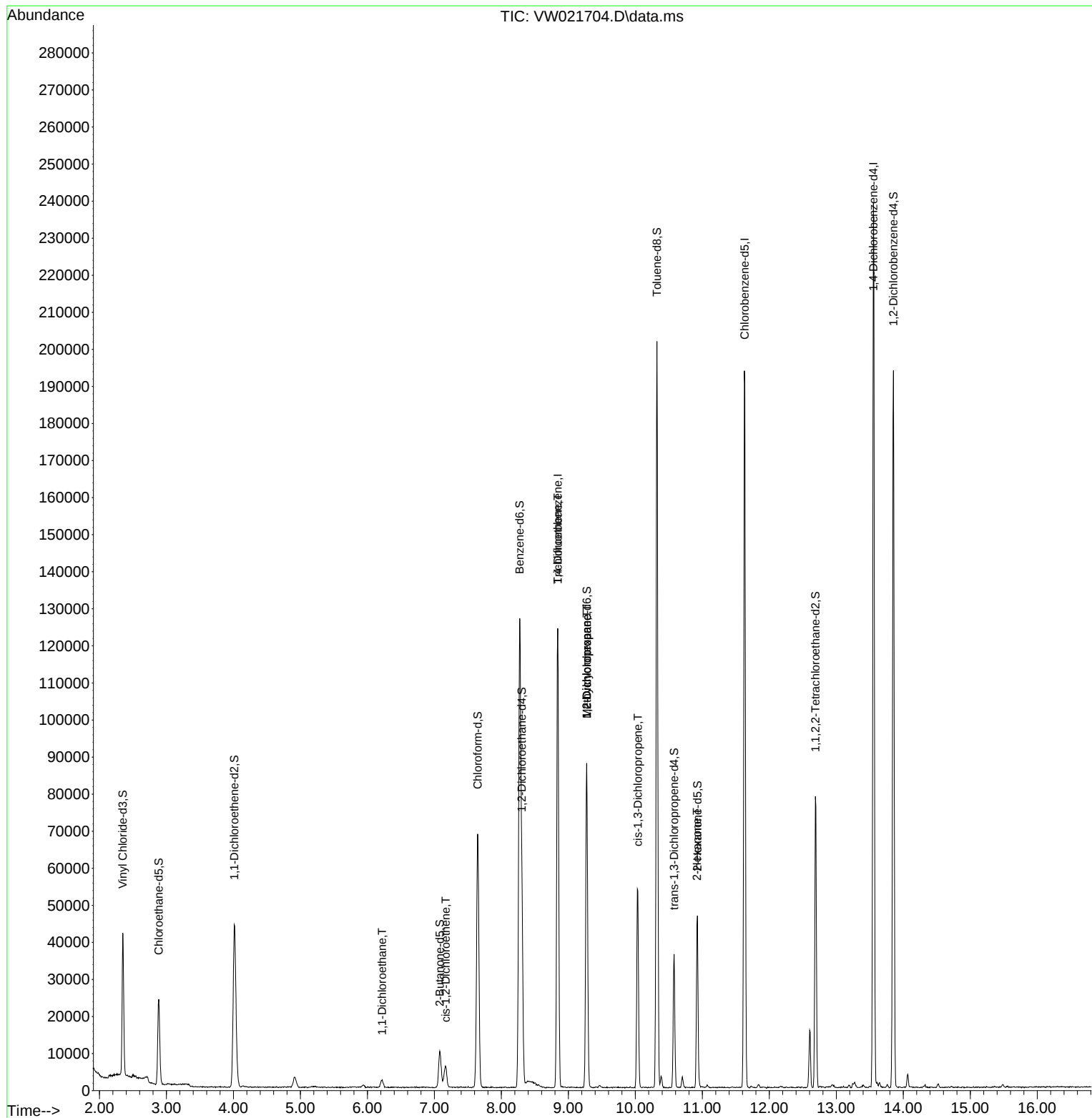
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) 1,4-Difluorobenzene        | 8.841  | 114   | 105950   | 25.000   | ug/L  | # 0.00   |
| 28) Chlorobenzene-d5          | 11.634 | 117   | 111206   | 25.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.554 | 152   | 65536    | 25.000   | ug/L  | 0.00     |
|                               |        |       |          |          |       |          |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 4) Vinyl Chloride-d3          | 2.349  | 65    | 36844    | 17.637   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =     | 70.560%  |
| 7) Chloroethane-d5            | 2.885  | 69    | 26964    | 19.164   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =     | 76.640%  |
| 11) 1,1-Dichloroethene-d2     | 4.013  | 63    | 41878    | 13.699   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =     | 54.800%  |
| 21) 2-Butanone-d5             | 7.080  | 46    | 16846    | 55.120   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =     | 110.240% |
| 24) Chloroform-d              | 7.646  | 84    | 67687    | 20.452   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =     | 81.800%  |
| 26) 1,2-Dichloroethane-d4     | 8.305  | 65    | 39877    | 22.818   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =     | 91.280%  |
| 32) Benzene-d6                | 8.274  | 84    | 127569   | 19.319   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =     | 77.280%  |
| 36) 1,2-Dichloropropane-d6    | 9.274  | 67    | 36797    | 20.542   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =     | 82.160%  |
| 41) Toluene-d8                | 10.323 | 98    | 131096   | 19.926   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =     | 79.720%  |
| 43) trans-1,3-Dichloroprop... | 10.579 | 79    | 19091    | 21.903   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =     | 87.600%  |
| 47) 2-Hexanone-d5             | 10.926 | 63    | 15334    | 56.445   | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =     | 112.880% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 35946    | 24.341   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =     | 97.360%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.853 | 152   | 52983    | 21.141   | ug/L  | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =     | 84.560%  |
|                               |        |       |          |          |       |          |
| Target Compounds              |        |       |          |          |       | Qvalue   |
| 19) 1,1-Dichloroethane        | 6.220  | 63    | 2991     | 1.157    | ug/L  | 93       |
| 20) cis-1,2-Dichloroethene    | 7.171  | 96    | 3365     | 1.956    | ug/L  | 74       |
| 34) Trichloroethene           | 8.841  | 95    | 3198     | 1.660    | ug/L  | # 5      |
| 35) Methylcyclohexane         | 9.274  | 83    | 10126    | 3.186    | ug/L  | # 14     |
| 37) 1,2-Dichloropropane       | 9.274  | 63    | 4958     | 3.297    | ug/L  | # 88     |
| 39) cis-1,3-Dichloropropene   | 10.036 | 75    | 1673     | 0.681    | ug/L  | 84       |
| 48) 2-Hexanone                | 10.920 | 43    | 2025     | 3.600    | ug/L  | # 67     |
| -----                         |        |       |          |          |       |          |

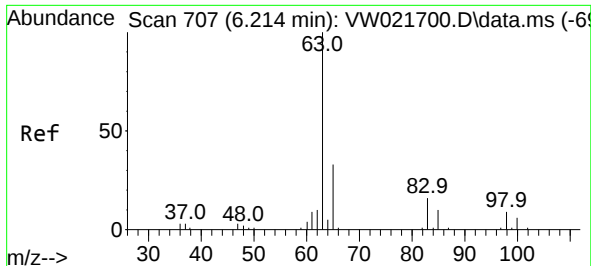
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW123021\  
Data File : VW021704.D  
Acq On : 30 Dec 2021 12:40  
Operator : SY/VA  
Sample : M5233-04  
Misc : 9.54g/10.0mL/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Dec 31 00:53:18 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM122821SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Dec 31 00:51:50 2021  
Response via : Initial Calibration





#19

1,1-Dichloroethane

Concen: 1.157 ug/L

RT: 6.220 min Scan# 707

Delta R.T. 0.006 min

Lab File: VW021704.D

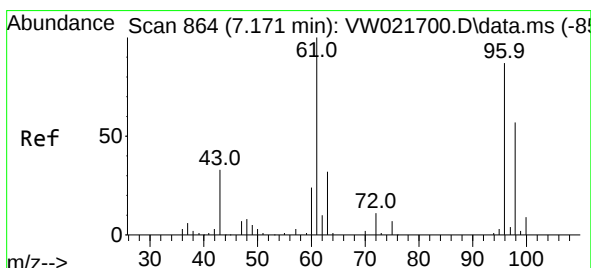
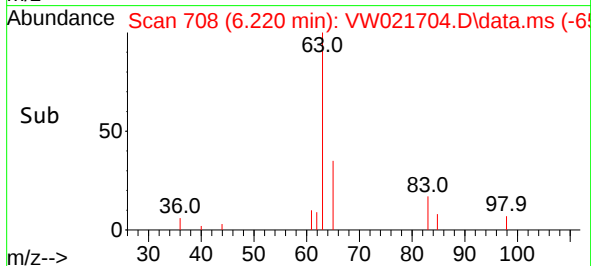
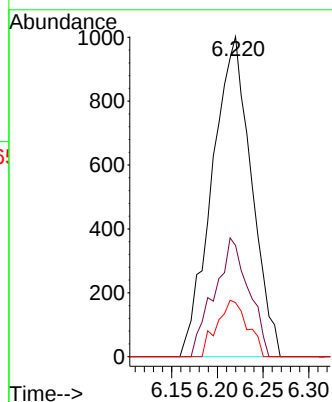
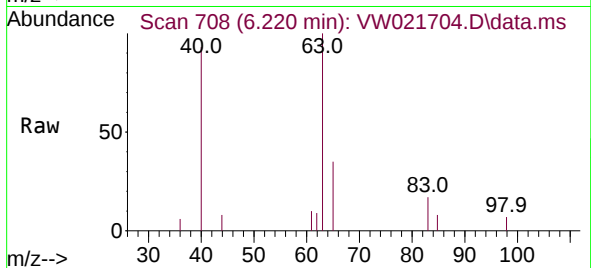
Acq: 30 Dec 2021 12:40

Instrument :

MSVOA\_W

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 63 | Resp: 2991     |
| Ion Ratio   | Lower Upper    |
| 63          | 100            |
| 65          | 34.7 22.1 41.1 |
| 83          | 16.9 9.2 17.2  |



#20

cis-1,2-Dichloroethene

Concen: 1.956 ug/L

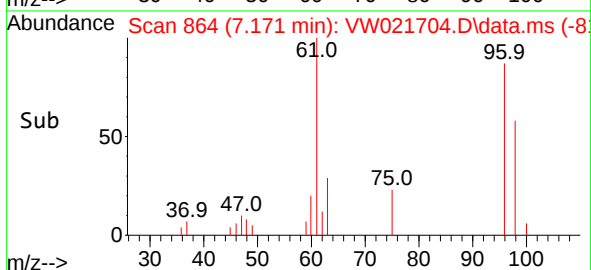
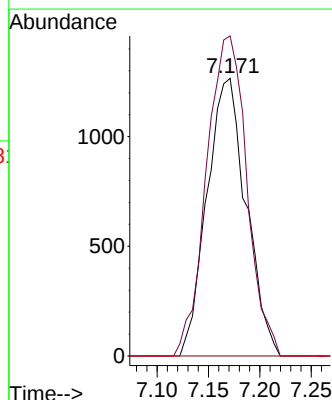
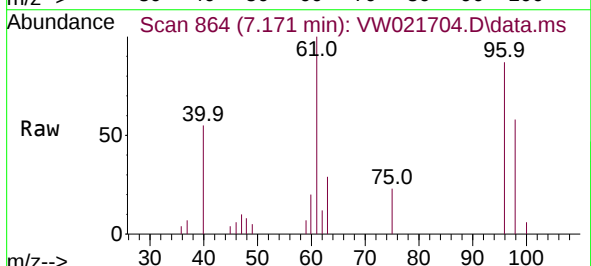
RT: 7.171 min Scan# 864

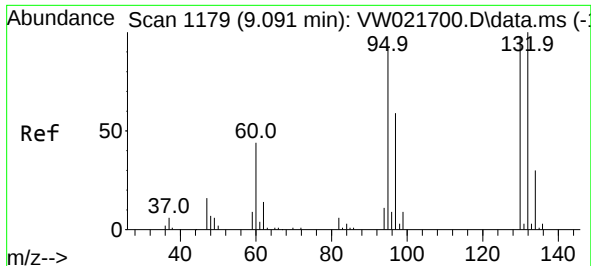
Delta R.T. -0.000 min

Lab File: VW021704.D

Acq: 30 Dec 2021 12:40

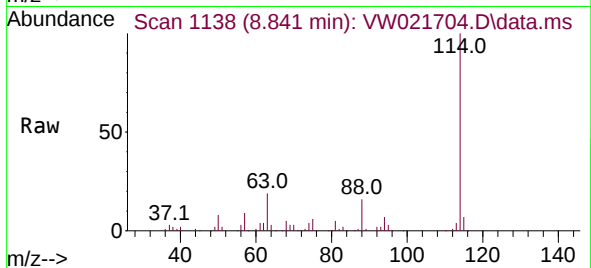
|             |                   |
|-------------|-------------------|
| Tgt Ion: 96 | Resp: 3365        |
| Ion Ratio   | Lower Upper       |
| 96          | 100               |
| 61          | 115.2 103.7 192.7 |
| 68          | 0.0 0.0 0.0       |



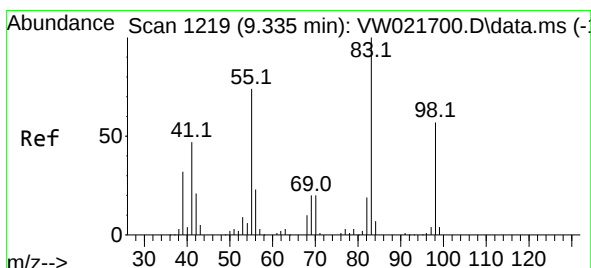
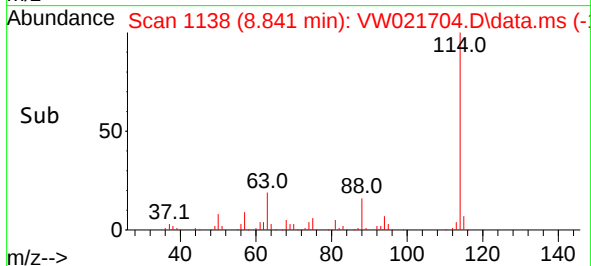
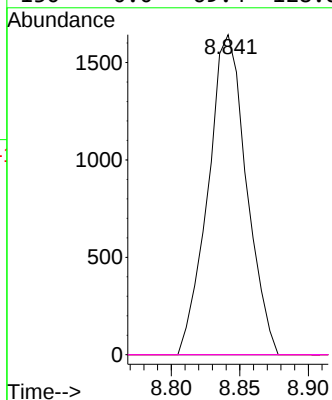


#34  
Trichloroethene  
Concen: 1.660 ug/L  
RT: 8.841 min Scan# 1179  
Delta R.T. -0.250 min  
Lab File: VW021704.D  
Acq: 30 Dec 2021 12:40

Instrument :  
MSVOA\_W  
ClientSampleId :

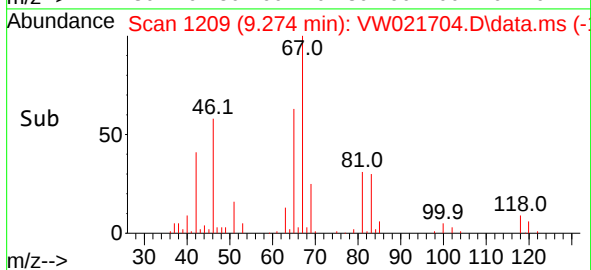
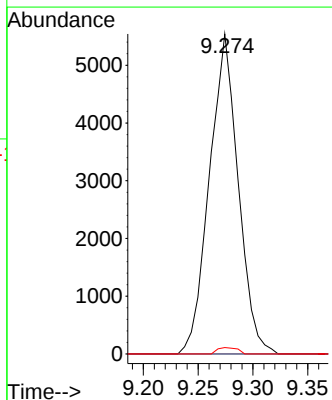
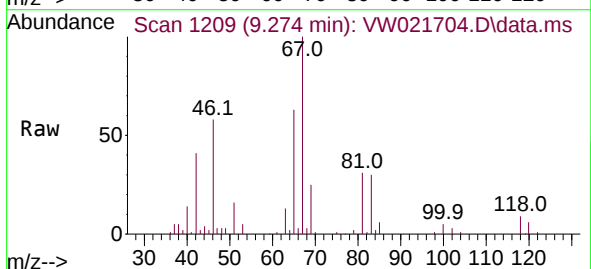


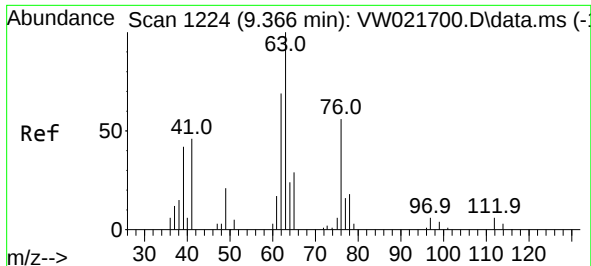
| Tgt Ion | 95    | Resp: | 3198   |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 95      | 100   |       |        |
| 97      | 0.0   | 47.0  | 87.2#  |
| 132     | 0.0   | 65.5  | 121.6# |
| 130     | 0.0   | 69.4  | 128.8# |



#35  
Methylcyclohexane  
Concen: 3.186 ug/L  
RT: 9.274 min Scan# 1209  
Delta R.T. -0.061 min  
Lab File: VW021704.D  
Acq: 30 Dec 2021 12:40

| Tgt Ion | 83    | Resp: | 10126  |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 55      | 0.0   | 70.8  | 106.2# |
| 98      | 1.4   | 37.7  | 56.5#  |





#37

1,2-Dichloropropane

Concen: 3.297 ug/L

RT: 9.274 min Scan# 11

Delta R.T. -0.091 min

Lab File: VW021704.D

Acq: 30 Dec 2021 12:40

Instrument :

MSVOA\_W

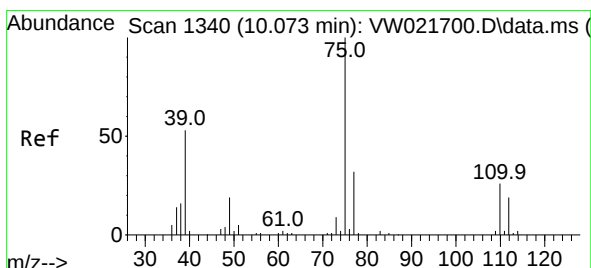
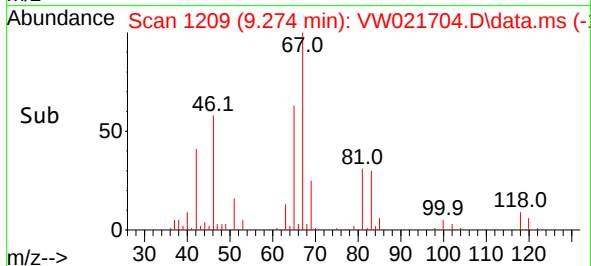
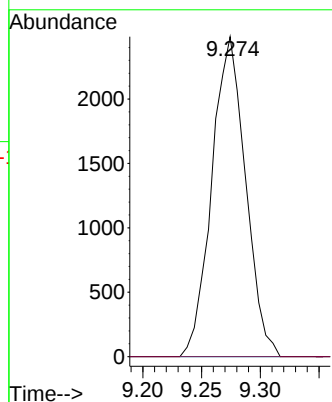
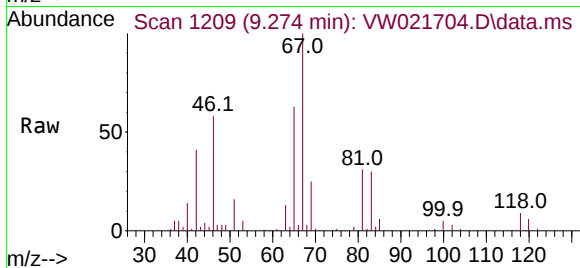
ClientSampleId :

Tgt Ion: 63 Resp: 4958

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.681 ug/L

RT: 10.036 min Scan# 1334

Delta R.T. -0.037 min

Lab File: VW021704.D

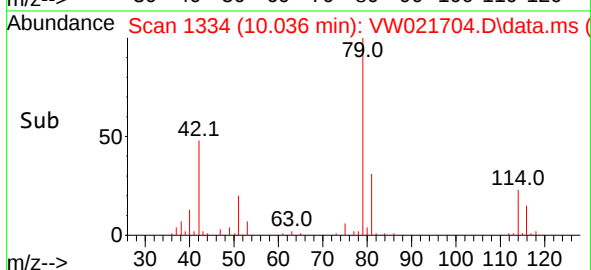
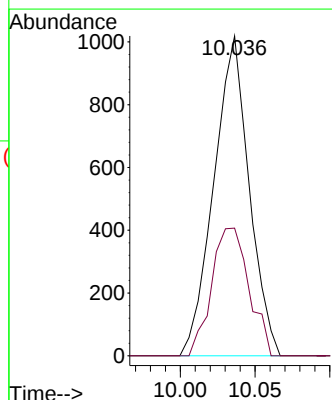
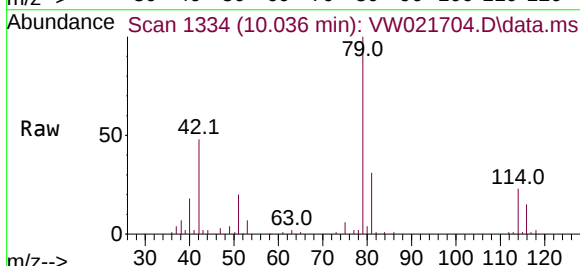
Acq: 30 Dec 2021 12:40

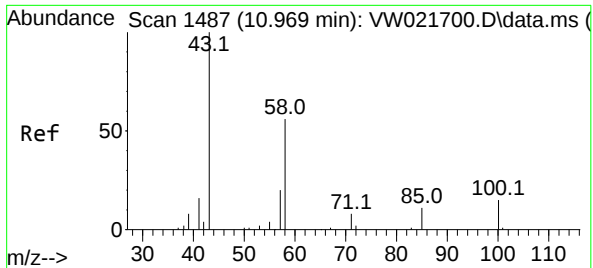
Tgt Ion: 75 Resp: 1673

Ion Ratio Lower Upper

75 100

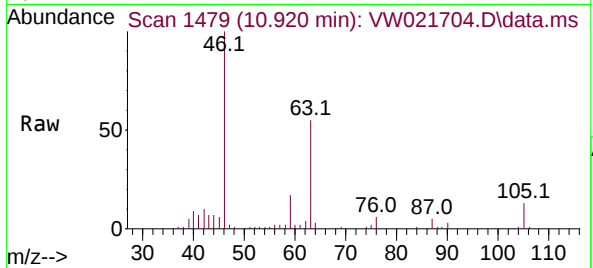
77 39.9 21.8 40.6





#48  
 2-Hexanone  
 Concen: 3.600 ug/L  
 RT: 10.920 min Scan# 14  
 Delta R.T. -0.049 min  
 Lab File: VW021704.D  
 Acq: 30 Dec 2021 12:40

Instrument :  
 MSVOA\_W  
 ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 2025        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 22.8  | 40.2 60.2#  |
| 57          | 24.8  | 14.3 21.5#  |
| 100         | 0.0   | 8.0 12.0#   |

